Jamshoro Power Company Limited (JPCL)
Thermal Power Station, Jamshoro

Jamshoro Power Company Limited (JPCL)

Disposal of Redundant, Old and Defunct Power Plants of JPCL (Phase-II)

Bidding Documents
(Single Stage-Two Envelope Bidding Procedure)

VOLUME – I

MAY 2025

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Disposal of Redundant, Old and Defunct Power Plants of JPCL (Phase-II)

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VOLUME – II

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INVITATION TO BID

Date: _____
Bid Reference No. DT-JPCL/02

1. Jamshoro Power Company Limited (JPCL) ("the Employer") invites sealed bids through single stage two envelope international competitive bidding procedure from eligible Bidders having the nationality of Pakistan or one of the countries notified by Ministry of Interior, Government of Pakistan as Business Friendly Countries (BVL) (https://visa.nadra.gov.pk/business-visa-list-bvl/), towards the cost of Disposal of Old and Defunct Power Plants of JPCL (Phase-II) comprising the following lots:

- Lot-1 TPS Jamshoro – Unit-01 to Unit-04 (880MW) with a Reserve Price of **PKR 9,974,468,312**

(Collectively, the "**Assets**") ***Note: The Reserve Prices of each Lot is exclusive of taxes.***

2. Bidding documents, containing detailed terms and conditions, etc. are available at the address given below. Price of the Bidding Documents is **PKR 15,000** (Pak Rupees Fifteen Thousand only). Bidding documents can also be downloaded from www.jpcl.com.pk free of cost.

3. The bids, prepared in accordance with the instructions in the bidding documents, must reach at the office of MD/CEO GENCO Holding Company Limited, 1st Floor, OPF Building, G-5/2, Islamabad on or before May 19, 2025 at 1000 hours. Technical Bids will be opened the same day at 1030 hours in the said office. This advertisement is also available on PPRA website at www.ppra.org.pk and the Employer's website at www.jpcl.com.pk .

4. The Employer reserves the right to annul the bidding process and reject all Bids, at any time prior to award of the Contract, in accordance with **Rule 33 of Public Procurement Rules, 2004 & Regulation 28 of Disposal of Public Assets Regulations, 2024.**

Bidding Documents can be purchased from following addresses:

1. GENCO HOLDING COMPANY LIMITED, 1st Floor, Overseas Pakistan Foundation (OPF) Building, Shah-Rah-E-Jamhoriat, Sector G-5/2, Islamabad.

2. CHIEF EXECUTIVE OFFICER, JPCL, GENCO-I, Thermal Power Station, Mohra Jabal Dadu/Sehwan Road, Jamshoro, Sindh

Chief Executive Officer
Jamshoro Power Company Limited (JPCL)
Thermal Power Station, Jamshoro
Tel: +92 229213706, 9213717

INSTRUCTIONS TO BIDDERS (IB)

INSTRUCTIONS TO BIDDERS

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INSTRUCTIONS TO BIDDERS

	A. GENERAL	
IB.1	Scope of Bid	1.1 The Employer as defined in the **Bidding Data** hereinafter called "the Employer" wishes to receive bids for the Disposal of Assets as described in these Bidding Documents and summarized in the **Bidding Data**. 1.2 The successful Bidder will be expected to complete the Disposal of Assets within the time specified in the **Bidding Data**.
IB.2	Eligible Bidders	2.1 The Invitation to Bid is open to all Bidders meeting the following requirements at the time of submission of Bids and thereafter: (a) A Bidder shall have the nationality of Pakistan or an Eligible Country. A Bidder shall be deemed to have the nationality of that country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. For the purpose of this clause, Eligible countries are those which have been notified by Ministry of Interior, Government of Pakistan as Business-Friendly Countries (BVL); information can be accessed through following link: https://visa.nadra.gov.pk/business-visa-list-bvl/ (b) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder: i. directly or indirectly controls, is controlled by or is under common control with another Bidder; or ii. receives or has received any direct or indirect subsidy from another Bidder; or iii. has the same legal representative as another Bidder; or iv. has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or v. any of its affiliates participated as a consultant in the preparation of these Bidding Documents; or vi. any of its affiliates has been hired (or is proposed to be hired) by the Employer as consultant for the Contract implementation. (c) All partners constituting the Bidder including proposed

			subcontractors do not appear in the list of debarred/ blacklisted firms and individuals on the websites of Federal & Provincial Procurement Regulatory Authorities and have not been declared debarred/ blacklisted by foreign country, international organizations or other foreign institutions.
IB.3	One Bid per Bidder	3.1	Each Bidder shall submit only one Bid either by himself, or as a partner in a joint venture. A Bidder who submits or participates in more than one Bid will be disqualified.
IB.4	Site Visit	4.1	The Bidders will be allowed by the Employer to visit and examine the Assets at the date and time specified in the **Bidding Data** and obtain for themselves on their own responsibility all information that may be necessary for preparing the Bid and entering into a contract for Disposal of Assets. All cost in this respect shall be at the Bidder's own expense.
		4.2	The Bidders and any of their authorized personnel or agents will be granted permission by the Employer to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the Bidders, their personnel and agents, will release and indemnify the Employer, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.
	B. BIDDING DOCUMENTS		
IB.5	Contents of Bidding Documents	5.1	The Bidding Documents are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.7:

		1. Instructions to Bidders; 2. Bidding Data; 3. Evaluation Criteria and Eligibility Forms; 4. Letters of Bid (Letter of Technical Bid & Letter of Price Bid); 5. Schedules to Bid; 6. Standard Forms: i) Form of Bid Security; ii) Letter of Acceptance; iii) Form of Contract Agreement; iv) Form of Performance Security. 7. General Conditions of Contract (GCC); 8. Particular Conditions of Contract (PCC); and 9. Employer's Requirements. 5.2 The Bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of Bid submission will be at the Bidder's own risk.
IB.6	Clarification of Bidding Documents, Pre-Bid Meeting	6.1 Any prospective Bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation to Bid. The Employer will respond to any request for clarification which he receives earlier than the period specified in the **Bidding Data**, prior to the deadline for submission of bids. 6.2 Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.
		6.3 The Employer may, on his own or at the request of any prospective Bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting, if convened, are as stipulated in the **Bidding Data**. All prospective Bidders or their authorized representatives shall be invited to attend such a pre-bid meeting. 6.4 The Bidders are requested to submit questions, if any, in writing so as to reach the Employer not later than seven (7) days before the proposed pre-bid meeting. 6.5 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause IB.7 and not through the minutes of the pre-bid meeting.

		6.6	Absence at the pre-bid meeting will not be a cause for the non-responsiveness of a Bid.
IB.7	Amendment of Bidding Documents	7.1	At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuing addendum.
		7.2	Any addendum thus issued shall be part of the Bidding Documents and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing to the Employer.
		7.3	Such addendum shall be issued not later than number of days prior to the deadline for submission of bids, specified in the **Bidding Data**. To afford prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.17.
	C. PREPARATION OF BIDS		
IB.8	Cost of Bidding	8.1	The Bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
IB.9	Language of Bid	9.1	The Bid and all correspondence and documents related to the Bid exchanged by a Bidder and the Employer shall be in the English language. Supporting documents and printed literature furnished by the Bidders may be in any other language provided the same are accompanied by duly certified translation of the relevant parts in the Bid language, in which case, for purposes of evaluation of the bid, the translation in Bid language shall prevail.
IB.10	Documents Comprising the Bid	10.1	The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid and the other the Price Bid, containing the following documents: **(A) Technical Bid** a) Duly filled in, signed and stamped Letter of Technical Bid in accordance with Clause IB.15 hereof; b) Bid Security in accordance with Clause IB.14 hereof; c) Written power of attorney authorizing the signatory of the Bid to act for and on behalf of the Bidder. The name and position held by each person signing the authorization must be typed or printed below the signature; d) Eligibility Forms duly filled in, signed and stamped along with requisite attachments, to establish that the Bidder meets

	the Eligibility Criteria set out in the Section "Evaluation Criteria and Eligibility Forms"; e) furnish following Schedules to Bid duly filled-in and completed in accordance with Clause IB.15: Schedule-B to Bid [Proposed Activity Schedule] Schedule-C to Bid [Method of Performing the Dismantling and Disposal Work] Schedule-D to Bid [List of Major Equipment] Schedule-E to Bid [Organization chart for the supervisory staff] Schedule-F to Bid [Proposed Subcontractors] Schedule-G to Bid [Integrity Pact] f) An affidavit, on the specified format, shall be produced by all Bidders to the effect that they have the requisite capability to implement the restrictions on end-users and exports as set out in the relevant Conditions of Contract, and submitted with the Bid in accordance with GCC Clause 10.1. g) JV Agreement (if applicable) in accordance with Clause IB.10.2 hereof; and h) Any other documents required to be submitted with Technical Bid in accordance with these Bidding Documents. **(B) Price Bid** i) Duly filled in, signed and stamped Letter of Price Bid in accordance with Clause IB.15 hereof, j) Schedule-A to Bid [Price Schedule] duly filled-in and completed in accordance with Clause IB.15; and k) Any other documents required to be submitted with Price Bid in accordance with these Bidding Documents.
	10.2 Bids submitted by a joint venture shall comply with the following requirements: (a) the bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners; (b) one of the joint venture partners shall be nominated as being the lead partner; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners; (c) the lead partner shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the Disposal of Assets as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding

	undertakings and receive payments on behalf of the joint venture; (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Letter of Technical Bid and in the Contract Agreement (in case of a successful bid); and
	(e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/ modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.
	10.3 Bidders shall also submit proposals of disposal work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the Employer's Requirements and the completion time referred to in Sub-Clause IB.1.2 hereof.
IB.11 Bid Prices	11.1 The Bidder shall quote a fixed lump sum price exclusive of taxes per Lot in the Price Schedule. Prices quoted for each Lot shall correspond to 100% of the scope of Bid for each Lot. 11.2 The total Bid Price quoted in the Price Schedule for each Lot shall be exclusive of any incidental charges, duties, all taxes including income tax and sales tax, cesses, commissions, fees and other levies, etc., which shall be paid/borne by and/or the liability of the Bidder as per the Applicable Law in relation to the Disposal of Assets.
IB.12 Currency of Bid and Payment	12.1 The Bid Price shall be quoted by the Bidder in any freely convertible currency and shall be paid by the Bidder to the Employer in the same currency.
IB.13 Bid Validity	13.1 Bids shall remain valid for the period stipulated in the **Bidding Data** after the date of Technical Bid Opening specified in Clause IB.20. 13.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the Bidders extend the period of validity for a specified additional period which normally may not be more than the original bid validity period. The request and the responses thereto shall be made in

		writing. A Bidder may refuse the request without forfeiting his Bid Security. A Bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.14 in all respects.
IB.14	Bid Security (Security Deposit)	14.1 Each Bidder shall furnish, as part of his bid, a Bid Security in original form in the amount stipulated in the **Bidding Data** in PKR or an equivalent amount in a freely convertible currency. 14.2 The Bid Security shall be, at the option of the Bidder, in the form of Call Deposit Receipt (CDR)/ Pay Order or a Security issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan in favour of the Employer valid for a period 14 days beyond the Bid Validity date. The Bid Security of Joint Venture shall be in the name of Joint Venture or Lead/either Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid. 14.3 Any Bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive. 14.4 The Bid Securities of the Bidders except the highest three will be returned by the Employer within twenty-eight (28) days from the opening of Bids, provided a Bidder requests for the return of its Bid Security, or upon the expiry of original validity of Bid Security or as extended, whichever is earlier. 14.5 The Bid Security of the highest three Bidders including the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security. 14.6 The Bid Security may be forfeited: (a) if the Bidder withdraws his bid except as provided in Sub-Clause IB.19.1; (b) in the case of successful Bidder, fails to furnish the required Performance Security. 14.7 In case of annulment, all Bids submitted and specially, Bid securities, shall be returned to the Bidders within 14 days of annulment.
IB.15	Format and Signing of Bid	15.1 Bidders are particularly directed that the amount entered on the Letter of Price Bid shall be for performing the Contract strictly in accordance with the Bidding Documents. 15.2 All Schedules to Bid are to be properly completed and signed. 15.3 No alteration is to be made in the Letters of Bid nor in the Schedules thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the Bid may be rejected. 15.4 Each Bidder shall prepare by filling in the forms completely and without alterations one (01) original and Two (02) number of

	copies, specified in the **Bidding Data**, of the documents comprising the Bid as described in Clause IB.10 and clearly mark them "ORIGINAL" and 'COPY" as appropriate. In the event of discrepancy between them, the original shall prevail. The Bidder shall also provide complete searchable PDF versions version of the Bid if so required in the **Bidding Data**. 15.5 The original of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder pursuant to Sub-Clause IB.10.1(c) hereof. All pages of the Bid shall be initialled and stamped by the person or persons signing the bid. 15.6 The Bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the Bid. 15.7 Bidders shall indicate in the space provided in the Letters of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent. 15.8 Bidders should retain a copy of the Bidding Documents and the Bid as their file copy. 15.9 All documents executed outside Pakistan required to be submitted with the Bid must be certified by Pakistani Embassy in the respective country(ies).
D. SUBMISSION OF BIDS	
IB.16 Sealing and Marking of Bids	16.1 Each Bidder shall submit his Bid as under: (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such. (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in Sub Clause IB.16.2 hereof. 16.2 The inner and outer envelopes shall: (a) be addressed to the Employer at the address provided in the **Bidding Data**; (b) bear the specific identification of this bidding process as specified in the **Bidding Data**; and (c) provide a warning not to open before the time and date for bid opening, as specified in the **Bidding Data**. 16.3 In addition to the identification required in Sub-Clause IB.16.2 hereof, the inner envelope shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared "late" pursuant to Clause IB.18.

	16.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.
IB.17 Deadline for Submission of Bids	17.1 (a) Bids must be received by the Employer at the address specified no later than the time and date stipulated in the **Bidding Data**. (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of Bids. No claims will be entertained for refund of such expenses. (c) Where delivery of a Bid is by mail and the Bidder wishes to receive an acknowledgment of receipt of such Bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed Bid envelope. (d) Upon request, acknowledgment of receipt of Bids will be provided to those making delivery in person or by messenger. 17.2 The Employer may, at his discretion, extend the deadline for submission of Bids by issuing an amendment in accordance with Clause IB.7, in which case all rights and obligations of the Employer and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.
IB.18 Late Bids	18.1 (a) Any Bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.17 shall be declared late, rejected and returned unopened to such Bidder. (b) Delays in the mail, delays of person in transit, or delivery of a Bid to the wrong office shall not be accepted as an excuse for failure to deliver a Bid at the proper place and time. It shall be the Bidder's responsibility to determine the manner in which timely delivery of his Bid will be accomplished either in person, by messenger or by mail.
IB.19 Modification, Substitution and Withdrawal of Bids	19.1 Any Bidder may modify**,** substitute or withdraw his Bid after Bid submission provided that the modification, substitution or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids. 19.2 The modification, substitution, or notice for withdrawal of any Bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.16 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.

	19.3 No Bid may be modified by a Bidder after the deadline for submission of Bids except in accordance with Sub-Clauses IB.19.1. 19.4 Withdrawal of a Bid during the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified in the Letter of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.14.
E. BID OPENING AND EVALUATION	
IB.20 Bid Opening	20.1 The Employer will open the Technical Bids including withdrawals, substitution and modifications made pursuant to Clause IB.19, in the presence of Bidders` representatives who choose to attend, at the address, date and time specified in the Invitation for Bids. The Bidders' representatives who are present shall sign a register evidencing their attendance. The Price Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening. The envelopes marked 'Technical Bids' shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the presence or absence of Bid Security; and (d) any other details as the Employer may consider appropriate. 20.2 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause IB.19 shall not be opened. Only bids that are opened and read out at Bid opening shall be considered further. 20.3 At the end of the evaluation of the Technical Bids, the Employer will invite only those bidders who have submitted substantially responsive Technical Bids to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Employer. The envelopes marked 'Price Bids shall be opened one at a time and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the Bid Price per Lot; and (d) any other details as the Employer may consider appropriate. The Letter of Price Bid and the Price Schedule shall be initialled by representative(s) of the Employer attending Bid opening. The Employer shall neither discuss the merits of any Bid nor

		reject any Bid (except for late Bids, in accordance with Sub-Clause IB 18.1). 20.4 The Employer shall prepare minutes of the Bid opening, including the information disclosed to those present in accordance with the Sub-Clause IB.20.3.
IB.21	Process to be Confidential	21.1 Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of Contract shall not be disclosed to Bidders or any other person not officially concerned with such process before the announcement of the result of Bid evaluation in the form of respective evaluation report giving justification for acceptance or rejection of Bids which shall be done in accordance with Rule 35 of Public Procurement Rules, 2004. Any effort by a Bidder to influence the Employer's processing of Bids or Contract award decisions may result in the rejection of such Bidder's Bid. Whereas any Bidder feeling aggrieved may lodge a written complaint in accordance with Rule 48 of Public Procurement Rules, 2004.
IB.22	Clarification of Bids	22.1 To assist in the examination, evaluation and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of lump sum price. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The request for clarification and the response shall be in writing. No change in the price or substance of the Bid shall be sought, offered or permitted. 22.2 The Employer may, at his discretion, ask any Bidder for confirmation/submission of missing information to clarify its Bid. However, the Employer does not have an obligation to request any additional information or clarification with respect to missing or deficient information in a Bid. The Employer may reject any Bid as non-responsive if found materially incomplete, obscure, irregular or omitting any material information required to be submitted in accordance with the Bidding Documents. 22.3 If a Bidder does not provide clarifications of its Bid by the date and time set reasonably (not less than seven (7) days) in the Employer's request for clarification, the Employer may proceed with the evaluation based on the information submitted in the Bid without waiting for the Bidder's response.
IB.23	Examination of Bids and Determination of Responsiveness	23.1 Prior to the comparison of Bids, the Employer will determine whether each Bid is substantially responsive to the requirements of the Bidding Documents. 23.2 The Employer's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in Sub-Clause IB.10. 23.3 A substantially responsive Bid is one which meets the requirements of the Bidding Documents, without material

	deviation, reservation or omission. A material deviation, reservation or omission is one that, (a) if accepted, would: (i) affect in any substantial way the scope, quality or performance of the disposal work; or (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the Bidder's obligations under the proposed Contract; or (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids. 23.4 During the evaluation of Bids, the following definitions apply: (a) "Deviation" is a departure from the requirements specified in the Bidding Documents; (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents. 23.5 The Employer shall examine the technical aspects of the Bid submitted in accordance with Sub-Clause IB.10.1, in particular, to confirm that all requirements stated in Employer's Requirements have been met without any material deviation, reservation or omission. 23.6 If a Bid is not substantially responsive to the requirements of the Bidding Documents, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation, reservation or omission.
IB.24 Nonmaterial Nonconformities	24.1 Provided that a Bid is substantially responsive, the Employer may, in its discretion, waive any nonmaterial nonconformities in the Bid. 24.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid. 24.3 Provided that a Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a non-conforming item.

IB.25	Evaluation and Comparison of Bids	25.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.23. The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted. 25.2 In evaluating and comparing the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows: (a) making an appropriate price adjustment for any quantifiable nonmaterial nonconformities in accordance with Sub-Clause IB.24.3; and (b) the additional evaluation factors are specified in Section Evaluation Criteria and Eligibility Forms. 25.3 To facilitate evaluation and comparison, the Employer will convert all Bid Prices expressed in various currencies to Pak. Rupees at the TT Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date of opening of Bids, provided on the following website: www.nbp.com.pk/RATESHEET/index.aspx
	F. AWARD OF CONTRACT	
IB.26	Award Criteria	26.1 Subject to Clauses IB.27 and IB.33, the Employer will award the Contract to the Bidder whose Bid has been determined as most advantageous Bid (substantially responsive to requirements of the Bidding Documents with the highest evaluated Bid Price). 26.2 In case two or more Bidders have submitted equal/identical Bid Prices, and their Bids have been evaluated as most advantageous bids, the Employer shall provide the opportunity to these Bidders to submit revised Bid Prices which shall not be less than the Bid Price offered earlier in accordance with Regulation 23 of Disposal of Assets Regulations, 2024 issued by Public Procurement Regulatory Authority (PPRA). Those revised Bid Prices shall be opened and read out on the same day in the presence of the Bidders. The Price Bids shall then be evaluated in accordance with provisions of the Bidding Documents.
IB.27	Employer's Right to Annul the Bidding Process	27.1 Notwithstanding Clause IB.26, the Employer reserves the right to annul the bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation. The Employer shall upon request communicate to any Bidder who submitted a Bid, the grounds for its rejection of all Bids but is not required to justify those grounds. Rejection of all Bids shall be notified to all Bidders promptly.
IB.28	Notification of Award	28.1 Prior to expiration of the period of Bid validity prescribed by the Employer, the Employer will notify the successful Bidder in writing ("Letter of Acceptance") that his Bid has been accepted.

		This letter shall name the sum which the Contractor will pay to the Employer in consideration of the Disposal of Assets as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price"). 28.2 No negotiation with the Bidder having submitted most advantageous Bid or any other Bidder shall be permitted, however, Employer may have clarification meetings before issuing Letter of Acceptance to get clarified any item in the Bid evaluation report. 28.3 The Letter of Acceptance/ notification of award and its acknowledgement/acceptance by the Bidder will constitute the formation of the Contract, binding the Employer and the Bidder till signing of the formal Contract Agreement. 28.5 Upon furnishing by the successful Bidder of a Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful and return their Bid securities in accordance with Sub-Clause IB.14.5.
IB.29	Performance Security	29.1 The successful Bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Conditions of Contract, within a period of 14 days after the receipt of Letter of Acceptance. 29.2 Failure of the successful Bidder to comply with the requirements of Sub Clause IB.29.1 or Clauses IB.30 or IB.31 shall constitute sufficient grounds for the annulment of the award, forfeiture of the Bid security and to award the Contract to the Bidder having submitted next advantageous Bid.
IB.30	Signing of Contract Agreement	30.1 Within 07 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will notify the successful Bidder to depute its representative with appropriate Power of Attorney to sign the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties. 30.2 The formal Agreement between the Employer and the successful Bidder shall be executed within 07 days of the receipt of the above stated notification by the successful Bidder from the Employer.
IB.31	Integrity Pact	31.1 The Bidder shall sign and stamp the Integrity Pact provided at Schedule-G to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding PKR ten million. Failure to provide such Integrity Pact shall make the Bid non-responsive.
IB.32	Instructions not Part of Contract	32.1 Bids shall be prepared and submitted in accordance with the Instructions to Bidders which are provided to assist the Bidders in preparing Bids but do not constitute part of the Contract.

IB.33	Corrupt and Fraudulent Practices	33.1 The Employer will reject a Bid if it determines that the Bidder recommended for award, or any of its personnel, or its agents, or its sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract under this bidding. 33.2 The Employer will blacklist and hence forthwith debar a Constructor or individual, at any time, in accordance with the prevailing Public Procurement Rules 2004.

BIDDING DATA (BD)

BIDDING DATA

IB Sub-Clause Reference	Bidding Data
1.1 **(Scope of Bid)**	Name and address of the Employer: Jamshoro Power Company Limited (JPCL), GENCO-I, Thermal Power Station, JPCL represented by Chief Executive Officer
1.1 **(Scope of Bid)**	List of Assets: Disposal of Redundant, Old and Defunct Power Plants of JPCL (Phase-II) comprising the following Lot: • Lot-1 TPS Jamshoro – Unit-01 to Unit-04 (880MW) The detailed scope of the Bid under this Lot is set out in the "Employer's Requirements'.
1.2 **(Scope of Bid)**	Time for Completion for the Disposal of Assets for this Lot is as under: Lot-1 TPS Jamshoro – Unit-01 to Unit-04 (880MW) — 20 Months from the Commencement Date
4.1 **(Site Visit)**	The Bidders will be allowed to visit and examine the Assets under this Lot during office hours on any day but not later than seven (07) days prior to the deadline for submission of bids.
6.1 **(Clarification of Bidding Documents, Pre-Bid Meeting)**	Time limit for clarification: Seven (07) days prior to the deadline for submission of bids.
6.3 **(Clarification of Bidding Documents, Pre-Bid Meeting)**	Date: May 05, 2025 Time: 11:00 AM Venue: Thermal Power Station, Jamshoro
7.3 **(Amendment of Bidding Documents)**	Number of days: Seven (07) days prior to the deadline for submission of bids. Addendum shall also be uploaded on the Employer's website at www.jpcl.com.pk
13.1 **(Bid Validity)**	Period of Bid Validity: Ninety (90) days
14.1 **Bid Security (Security Deposit)**	Amount of Bid Security (Security Deposit): • **Lot-1: PKR 199,000,000**
15.4 **(Format and Signing of Bid)**	Number of copies of the Bid to be completed and submitted: two (02) copies. Searchable pdf version of the Bid is required: Yes. The same shall be provided as a soft copy via a USB device.

16.2(a) **(Sealing and Marking of Bids)**	Employer's address for the purpose of Bid submission: Jamshoro Power Company Limited (JPCL), GENCO-I, Thermal Power Station Jamshoro, represented by Chief Executive Officer
16.2(b) **(Sealing and Marking of Bids)**	Name and Number of the Contract: Contract No. **DT-JPCL/02**: Disposal of Redundant, Old and Defunct Power Plants of JPCL (Phase-II).
17.1(a) **(Deadline for Submission of Bids)**	Deadline for submission of Bids: As stated in the Invitation to Bid.

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EVALUATION CRITERIA AND ELIGIBILITY FORMS

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EVALUATION CRITERIA AND ELIGIBILITY FORMS

1. General

This Section contains Evaluation Criteria that the Employer shall use to evaluate Bids in accordance with Clauses IB.23 of Instructions to Bidders. The Bidder shall provide all the information requested in the relevant forms contained in Bidder's Eligibility Forms provided herein.

The information provided in the forms shall be substantiated with valid documentary evidences otherwise the requirement will not be considered as complied.

Wherever a Bidder is required to state a monetary amount, Bidders shall indicate the PKR equivalent using the rate of exchange determined as follows:

- For financial data - Exchange rate prevailing on the last day of the respective financial year

Exchange rates shall be taken from the publicly available source identified in the Sub-Clause IB.25.3. Any error in determining the exchange rates in the Bid may be corrected by the Employer.

2. Evaluation (IB 25.2(b))

In addition to the criteria listed in IB 25.2 (a), the following criteria shall apply:

2.1 Assessment of adequacy of Technical Proposal with Employer's Requirements

The technical proposal will be examined taking into account the various Schedules to Bid, particularly the following, to confirm their conformance with the Employer's Requirements:

- Schedule-B to Bid [Proposed Activity Schedule]
- Schedule-C to Bid [Method of Performing the Dismantling and Disposal Work]
- Schedule-D to Bid [List of Major Equipment]
- Schedule-E to Bid [Organization chart for the supervisory staff]
- Schedule-F to Bid [Proposed Subcontractors]

2.2 Multiple Contracts, if permitted under Sub-Clause 1.1 of Bidding Data, will be evaluated as follows: Not Applicable

3. Eligibility

Eligibility information described here below must be met by the legal entity(ies) comprising the Bidder, and not theBidder's/JV partner's sister or parent companies, subsidiaries or affiliates.

Eligibility Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
1. Eligibility							
1.1	**Nationality**	Nationality in accordance with Sub-Clause IB.2.1 (a).	Must meet requirement	N/A	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments
1.2	**Conflict of Interest**	No Conflict of Interest in accordance with Sub-Clause IB.2.1 (b).	Must meet requirement	N/A	Must meet requirement	N/A	Undertaking in the Letter of Technical Bid
1.3	**Debarment/Blacklisting**	Not having been debarred/blacklisted in accordance with paragraph Sub- Clause IB.2.1 (c).	Must meet requirement	N/A	Must meet requirement	N/A	Undertaking in the Letter of Technical Bid

Bidders Eligibility Forms

To establish its eligibility to perform the contract in accordance with Section (Evaluation Criteria and Eligibility Forms) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI -1.1

Bidder Information Form

Date: _____
Bid Reference No. and title: _____
Page_____of_____ pages

Bidder's name
In case of Joint Venture (JV), name of each member:
Bidder's country of registration: *[indicate country of Constitution]*
Bidder's year of incorporation:
Bidder's legal address [in country of registration]:
Bidder's authorized representative information Name:_____ Address:_____ Telephone/Fax numbers: _____ _____ E-mail address: _____
1. Attached are copies of original documents, in accordance withSub-Clause IB 2.1.

Form ELI -1.2

Bidder's JV Information Form
(to be completed for each member of Bidder's JV)

Date: _____
Bid Reference No. and title: _____
Page _____ of_____pages

Bidder's JV name:
JV member's name:
JV member's country of registration:
JV member's year of constitution:
JV member's legal address in country of constitution:
JV member's authorized representative information Name:_____ Address:_____ Telephone/Fax numbers: _____ E-mail address: _____

Form BOI– 1

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contracts

1. Name:
2. Father's Name/Spouse's Name:
3. CNIC/NICOP/Passport no.:
4. Nationality:
5. Residential address:
6. Email address:
7. Date on which shareholding, control or interest acquired in the business:
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entities or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided:

1	2	3	4	5	6	7	8	9	10
Name	**Legal form (Company/Limited Liability Partnership/Association of Persons/Single Member Company/Company/Partnership Firm/Trust/Any other individual, body corporate (to be specified)**	**Date of incorporation / Registration**	**Name of Registering Authority**	**Business Address**	**Country**	**Email Address**	**Percentage of shareholding, control or interest of BO in the legal person or legal arrangement**	**Percentage of shareholding, control or interest of legal person or legal arrangement in the Company**	**Identity of Natural Person who ultimately owns or controls the legal person or arrangement**

9. Information about Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names)

1	2	3	4	5	6	7	8
Name and surname *(In Block Letters)*	**CNIC No. *(in case of foreigner, Passport No)***	**Father' s / Husband' s Name in Full**	**Current Nationality**	**Any other Nationality (ies)**	**Occupation**	**Residential address in full or the registered / principal office address for a subscriber other than natural person**	**Number of shares taken by each subscriber *(in figures and words)***
			Total Number of Shares taken *(in figure and words)*				

10. Any other information incidental to or relevant to Beneficial Owner(s).

Name & Signature
(Person authorized to issue notice ion behalf of the company)

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AFFIDAVIT

(Undertaking for the capability to implement restrictions on end-users and exports)

[On letterhead of Bidder]

We, …. [*insert name of the Bidder*], intend to submit/have submitted a sealed bid, to the …. [*insert name of the Employer*], in respect of the Bid for…….... [*particulars of Bid*]. The terms and conditions of the Bidding Documents contain, inter alia, restrictions on the end-users and/or exports of the assets for disposal, as specified in the Conditions of Contract.

We, the Bidder, do hereby solemnly affirm and declare that we have the necessary and adequate means and resources to implement the said restrictions in letter and spirit.

We, the Bidder, fully understand that failure to meet this condition shall result in rejection of our bid at any stage, being non-responsive, or termination of the Contract, and shall further lead to the civil and criminal action under the Applicable Law.

Name of Bidder: _____

Name & Signature of Authorized Representative _____

Dated: _____

Seal:

LETTERS OF BID
AND
SCHEDULES TO BID

LETTER OF TECHNICAL BID

Bid Reference No **DT-JPCL/02**

Disposal of Redundant, Old and Defunct Power Plants of JPCL (Phase-II)

To:

Chief Executive Officer,

Jamshoro Power Company Limited (JPCL),

Thermal Power Station, Jamshoro.

Gentleman,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Employer's Requirements, Schedules to Bid including Price Schedule and Addenda Nos._____for the Disposal of the above-named Assets, we, the undersigned, offer to execute and complete such Disposal in conformity with the said Bidding Documents and Addenda.

2. We meet the eligibility requirements in accordance with IB.2.

3. We are not debarred/ blacklisted by the Employer, any Government/Semi Government/Public Department in Pakistan or foreign country, international organizations or other foreign institutions.

4. We, including Subcontractors for any part of the Contract, if any, shall have the nationalities from Pakistan or eligible countries, in accordance with IB.2.1(a).

5. We understand that all the Schedules attached hereto form part of this Bid.

6. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of PKR_____(Pak. Rupees._____) drawn in your favour or made payable to you and valid for a period of_____days beginning from the date Bids are opened, inclusive of 14 days beyond Bid validity period (as mentioned at Sr. No. 8 below).

7. We undertake, if our Bid is accepted, to commence the Disposal of Assets and to complete the whole of the Disposal comprised in the Contract within the time stated in Conditions of Contract.

8. We agree to abide by this Bid (Technical Bid and Price Bid) for the period of__days, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

9. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

10. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other Bidder for the Disposal of Assets.

11. We understand that you are not bound to accept the highest or any Bid you may receive.

12. We have furnished the required information in accordance with beneficial ownership form [Form BOI-1] provided in Bidders Eligibility Forms.
13. We undertake that all the information and documents submitted with the Bid are genuine, and in case of incorrect information of fake documents we shall be liable for punitive action under the Applicable Law.
14. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer. (Please delete in case of Bid from a single firm).

Dated this_____day of_____20_____

Signature: _____

in the capacity of_____duly authorized to sign Bids for and on behalf of

_____

(Name of Bidder in Block Capitals)
(Seal)

Address:_____

_____

_____

Witness:

Signature:_____

Name: _____

Address. _____

_____

Occupation_____

LETTER OF PRICE BID

Bid Reference No. **DT-JPCL/02**

Disposal of Redundant, Old and Defunct Power Plants of JPCL (Phase-II)

To:

Chief Executive Officer,

Jamshoro Power Company Limited (JPCL),

Thermal Power Station, Jamshoro.

Gentleman,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Employer's Requirements, Schedules to Bid including Price Schedule and Addenda Nos._____for the Disposal of the above-named Assets, we, the undersigned, offer to execute and complete such Disposal in conformity with the said Bidding Documents and Addenda for the sum of:

Total price is: [*insert the total price of the Bid in words and figures, indicating the amount and the respective currency*];

2. We understand that all the Schedules attached hereto form part of this Bid.

3. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

4. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other Bidder for the Disposal of Assets.

5. We understand that you are not bound to accept the highest or any Bid you may receive.

Dated this_____day of_____20_____

Signature: _____

in the capacity of_____duly authorized to sign Bids for and on behalf of

_____

(Name of Bidder in Block Capitals)
(Seal)

Address:_____

_____

_____

Witness:

Signature:

_____

Name: _____

Address. _____

Occupation_____

A-1
Schedule-A to Bid

PRICE SCHEDULE

Preamble

1. The Price Schedule shall be read in conjunction with the Conditions of Contract and Employer's Requirements.

2. The Bidder shall quote a fixed lump sum price for this Lot in the Price Schedule. Prices quoted shall correspond to 100% scope of Bid for this Lot.

3. The total Bid price quoted in the Price Schedule shall be exclusive of all costs of Contractor's plant, labour, supervision, execution, insurance, profit, together with all general risks, liabilities and obligations set out or implied in the Contract which shall be borne by the Bidder. Moreover, the total Bid Price quoted in the Price Schedule shall be exclusive of any incidental charges, duties, all taxes including income tax and sales tax, cesses, commissions, fees and other levies, etc., which shall be paid/borne by and/or the liability of the Bidder as per the Applicable Law in relation to the Disposal of Assets.

4. General directions and description of work are not necessarily repeated nor summarized in the Price Schedule. References to the relevant sections of the Bidding Documents shall be made before entering prices in the Price Schedule.

5. For the avoidance of doubt, all expenses incurred in connection with deploying labor for handling, lifting, removal, loading, weighing and transportation of Assets under the respective lot shall be borne by the successful Bidder.

A-2
Schedule-A to Bid

Price Schedule

Serial No.	Description of Lot	Reserve Price (PKR)	Lump sum Bid Price and Currency (Exclusive of Taxes)
1.	**Lot-1:**	**9,974,468,312**	

B-1
Schedule-B to Bid

PROPOSED ACTIVITY SCHEDULE

The whole of the Disposal of Assets for this Lot shall be completed within the time for completion stated as hereunder:

Description	Time for Completion (Months)
Disposal of Assets	Lot-1:20 Months

[The Bidder shall provide, its Proposed Activity Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Disposal of Assets may meet Employer's completion target in days noted above and counted from the Commencement Date (Attach sheets as required for the specified form of Disposal Plan/Schedule)]

C-1
Schedule-C to Bid

METHOD OF PERFORMING THE DISMANTLING & DISPOSAL WORK

[The Bidder is required to submit a narrative outlining the method of performing the disposal work. Thenarrative should indicate in detail and include but not be limited to:

In this form, the Bidder shall provide its Organization Chart indicating all positions that will be employed in Head Office, Site Office, etc., (whichever applicable) including the key positions. Bidder shall also mention the job description of each key position.

The Bidder is required to submit a narrative outlining the method of performing the Disposal work. The narrative should indicate in detail and include but not be limited to:

- The sequence and methods in which he proposes to carry out the Disposal work, including the number of shifts per day and hours per shift, he expects to work.
- The procedure for dismantling of equipment and transportation of equipment and materials from the site.
- The Bidder shall provide description of his construction camp's facilities and staff housing requirements.
- The Bidder shall submit comprehensive and concise Health, Safety and Environmental (HSE) Plan that outlines the health, safety and environmental procedures to be implemented during the execution of work at the Project Site.

D-1
Schedule-D to Bid

LIST OF MAJOR EQUIPMENT

[The Bidder will provide on Sheet D-2 of this Schedule *a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the Disposal of Assets. The information shall include make, type, capacity, and anticipated period of utilization for all equipment.*

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment.]

D-2
Schedule-D to Bid

LIST OF MAJOR EQUIPMENT

Owned, Purchased or Leased

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
1	2	3	4	5	6	7
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

D-3
Schedule-D to Bid

LIST OF MAJOR EQUIPMENT

Equipment details

The Bidder shall provide adequate information and details to demonstrate clearly that it has the capability to carry out the Works at Site, including number of each kind, make, type, capacity of all equipment, working condition, which shall be deployed by him for the Works including requirements indicated in Employer's Requirement, using the Forms below. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment ☐ Owned ☐ Rented ☐ Leased ☐ Specially manufactured	
The following information shall not be applicable for equipment owned by the Bidder		
Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

E-1
Schedule-E to Bid

ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR

F-1
SCHEDULE – F TO BID

PROPOSED
SUBCONTRACTORS

The Bidder will do the work with his own forces except the work listed below which he intends to sub-contract.

Items of Work to be Sub-Contracted	Name and address of Sub-Contractor	Statement of similar works previously executed (attach evidence)

Note:

1. No change of Sub-Contractor shall be made by the bidder without prior approval of the Employer.
2. The truthfulness and accuracy of the statement as to the experience of Sub-Contractors is guaranteed by the Bidder. The Employer's judgment shall be final as to the evaluation of the experience of Sub-Contractors submitted by the bidder.
3. Statement of similar works shall include description, location & value of work, year completed and name & address of the clients.
4. Notarized English translation shall also be attached if any document is not in English language.
5. All documents shall reflect experience of the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries or affiliates.

G-1
Schedule-G to Bid

INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE, ETC. PAYABLE BY THE BIDDERS/CONTRACTORS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH PAK. RS. 10.00 MILLION OR MORE

Contract No._____ Dated _____

Contract Value: _____

Contract Title: As stated in Letter of Price Bid

…… [Name of Bidder/Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, [Name of Bidder/ Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Bidder/Contractor] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Bidder/Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Bidder/Contractor] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Bidder/Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Employer: ……	Name of Bidder/Contractor: ……
Signature: ……	Signature: …….
[Seal]	[Seal]

STANDARD FORMS

BS-1

FORM OF BID SECURITY

Security Executed on _____
(Date)

Expiry on _____
(Date)

Name of Surety with Address: _____

_____

Name of Principal (Bidder) with Address _____

_____

Penal Sum of Security PKR_____(Pak Rupees _____
_____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto_____
(hereinafter called the 'Employer') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated_____for _____
_____(*Particulars of Bid and/or description of the Lot*) to the said Employer; and

(1) WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum to the Employer, conditioned as under: that the Bid Security shall remain in force for a period fourteen (14) days beyond the Bid Validity date i.e., upto_____.

(2) that the Bid Securities of the Bidders except the highest three will be returned by the Employer within twenty eight (28) days from the opening of Bids, provided a Bidder request for the return of its Bid Security, or on the expiry of original validity of Bid Security or as extended, whichever is earlier;

(3) that the Bid Security of the highest three Bidders comprising the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security; and

(4) that in the event of failure of the successful Bidder to furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to IB.14 and IB.29 of the Instructions to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within fourteen (14) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfillment of the said Contract or in the event of non-withdrawal of the said Bid within the time

specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Employer the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer shall decide, whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Employer forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY
(Scheduled Bank)

WITNESS:

Signature _____

1. _____

Name _____

_____

Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

_____
Name, Title & Address

FORM OF PERFORMANCE SECURITY (Bank Guarantee)

Guarantee No._____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor with address: _____

_____

Name of Principal (Contractor) with address:_____

_____

Penal Sum of Security (*express in words and figures*) _____

_____

Letter of Acceptance No._____Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for_____

_____ (*Name of Contract*) for the _____

_____ (*Name of Project*).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue, including thirty (30) days following the date of completion of the Contractor's performance obligations under the Contract, as to be certified by the Employer by issuance of the Completion Certificate.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We,_____ (the Guarantor), waiving all objections and defense under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments

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and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall decide, whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Guarantor
(Scheduled Bank)

WITNESS:

Signature _____

1. _____

Name _____

_____
Corporate Secretary (Seal)

Title _____
Corporate Guarantor (Seal)

2. _____

_____
Name, Title & Address

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Letter of Acceptance

[Letterhead paper of the Employer]

NAME OF CONTRACT:_____ CONTRACT NUMBER:_____

TO :_____

Date:_____ Your Reference:_____

Our Reference:_____

We thank you for your Bid dated ____ for the Disposal of Assets *(insert Lot No.)* comprising the above-named Contract,all in conformity with the terms and conditions contained in the Contract.

We have pleasure in accepting your Bid for the Contract Price of:

_____ **(Exclusive of all taxes)**
[currency and amount in figures]

In accordance with Sub-Clause IB.11.2, the Contract Price quoted in your Price Schedule, as stated above, is exclusive of any incidental charges, duties, all taxes including income tax and sales tax, cesses, commissions, fees and other levies, etc., which shall be paid/borne by and/or the liability of the Contractor as per the Applicable Law in relation to the Disposal of Assets. Furthermore, any changes in taxes, duties, or levies, etc., whether federal or provincial due to change in Applicable Law during the execution of the Contract, shall also be paid/borne by and/or the liability of the Contractor.

As per the prevalent tax laws, the current amount of these taxes is PKR _____.

We acknowledge that this Letter of Acceptance creates a binding Contract between us, and we undertake to fulfill all our obligations and duties in accordance with the terms of this Contract.

You are hereby required to furnish the Performance Security in the form and the amount in accordance with Sub-Clause IB.29.1 within a period of fourteen (14) days after the receipt of Letter of Acceptance.

You shall depute your authorized representative with Power of Attorney to sign the Contract Agreement in the office of the undersigned within fourteen (14) days from the date of furnishing of acceptable Performance Security pursuant to Sub-Clause IB.30.

Please acknowledge receipt and confirm your acceptance of this Letter of Acceptance being sent in duplicate, by affixing your signature and stamp at the space provided below, and return one copy thereof as soon as possible but not later than three (3) days from the date of issuance of this Letter of Acceptance.

Kind Regards,

For and on behalf of
Jamshoro Power Company Limited (JPCL)

(……..)

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Received and Accepted:

For and on behalf of
M/s ……..
(the Contractor)

Signature: _____

Name: _____

Designation: _____

Stamp: _____

Date: _____

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FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 2025__ between,_____ _____(hereinafter called the "Employer") of the one part and_____ (hereinafter called the"Contractor") of the other part.

WHEREAS the Employer is desirous that certain Assets, viz., *[insert Lot No. and details]* _____ _____ should be disposed of by the Contractor and has accepted a Bid by the Contractor for the Disposal of such Assets.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents, in the order of priority, after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement:

   a) This Contract Agreement;
   b) The Letter of Acceptance;
   c) The Particular Conditions;
   d) The General Conditions;
   e) The Letters of Bid (Letter of Technical Bid & Letter of Price Bid);
   f) Employer's Requirements;
   g) The Completed Schedules to Bid including Price Schedule;
   h) The JV Agreement (if the Contractor is a JV); and
   i) [Employer to insert any other documents forming part of the Contract].

   The addenda/corrigenda, if any, (excluding part relating to Instructions to Bidders along with Bidding Data) shall be deemed to have been incorporated at the appropriate places in the "Documents forming the Contract".

3. The Contractor hereby covenants to pay the Employer, in consideration of the Disposal of Assets as per provisions of the Contract, the Contract Price or such other sumas may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

4. In consideration of the payments to be made by the Contractor to the Employer as hereinabove mentioned, the Employer hereby covenants with the Contractor to hand over the Assets for Disposal in conformity with the provisions of the Contract.

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IN WITNESS WHEREOF the Parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of Contactor	Signature of Employer
(Seal)	(Seal)

Signed, Sealed and Delivered in the presence of:

Witness	Witness
(Name, Title and Address)	(Name, Title and Address)

CONDITIONS OF CONTRACT

Part-I

GENERAL CONDITIONS OF CONTRACT

Part-I: General Conditions of Contract
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Part-I
General Conditions of Contract

Clause Title	Clause No.	Description of Clause
1. Definitions	1.1	In this contract, the following terms shall be interpreted as indicated below: a. "**Assets"** mean the Assets to be disposed of as stated in the Employer's Requirements. b. **"Bidder"** means any person or persons, company, corporation, firm or joint venture submitting a Bid. c. **"Contract"** means these Conditions (Parts I and II), the Employer's Requirements, the Price Schedule, Schedules to Bid, the Letters of Bid, the Letter of Acceptance, the Contract Agreement and such further documents as may be expressly incorporated in the Letter of Acceptance or Contract Agreement. d. **"Contract Price"** means the sum stated in the Letter of Acceptance as payable to the Employer by the Contractor for the Disposal of Assets in accordance with the provisions of the Contract. e. **"Contractor"** means the person whose Bid has been accepted by the Employer and the legal successors in title to such person, but not (except with the consent of the Employer) any assignee of such person. f. **"Commencement Date**" means the date for commencement under the respective Lot for Disposal of Assets which shall be the date of issue of the Employer's Order to Commence which shall be issued within seven (7) days after the following conditions have been fulfilled by both Parties: i. This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. ii. The Contractor has submitted to the Employer the Performance Security acceptable to the Employer. iii. The Employer has received the 100% payment of the Contract Price from the Contractor of the respective Lot in case Option 1 is chosen by the Contractor.

		OR The Employer has received 1st Installment of the Contract Price from the Contractor of the respective Lot in case Option 2 is chosen by the Contractor. g. "**Days**" means a calendar day. h. "**Disposal**" means the divestiture of the Public Asset and other rights of the Employer by its sale and transfer of title. i. "**Employer**" means the person named as such in Part II of these Conditions and the legal successors in title to such person, but not (except with the consent of the Contractor) any assignee of such person, as specified in the PCC. j. "**Employer's Country**" is the country named as such in the PCC. k. **"In writing"** means communicated in written form and delivered against receipt. l. "**Letter of Acceptance (LOA)"** means a letter issued by the Employer to the Successful Bidder, whereby it is conveyed that the bid submitted by the Successful Bidder has been accepted. m. "**Project**" refers to the particular project, as specified in the PCC. n. "**Project Site**" means the place or places, where the Project is located, as specified in the PCC. o. "**Reserve Price**" means the minimum acceptable price of the Assets for Disposal determined by the Employer, in a prescribed manner. p. "**Singular words**" also refer to plural words of the kind and vice versa, except where the context requires otherwise. q. "**Transfer of Assets"** means changing the ownership or other rights in an asset from the Employer to the Contractor.
	1.2	Words importing persons or parties shall include firms and corporations and any organization having legal capacity.

2. Precedence of Documents in Interpretation	2.1	The several documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Employer who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows: a) This Contract Agreement; b) The Letter of Acceptance; c) The Particular Conditions; d) The General Conditions; e) The Letters of Bid (Letter of Technical Bid & Letter of Price Bid); f) Employer's Requirements; g) The completed Schedules to Bid including Price Schedule; h) The JV Agreement (if the Contractor is a JV); and i) Any other documents forming part of the Contract other documents forming part of the Contract. The addenda/corrigenda, if any, (excluding part relating to Instructions to Bidders along with Bidding Data) shall be deemed to have been incorporated at the appropriate places in the "Documents forming the Contract".
3. Governing Language	3.1	The Contract shall be written in the language specified in the PCC. All correspondence and other documents about the Contract which are to be exchanged by the parties to the Contract shall be written in the same language. However, for the supporting technical documents and printed literature furnished in the bidding process in another language, provided the same are accompanied by an accurate translation of the relevant passages in the Governing Language, the translation shall govern.
4. Applicable Law	4.1	The Contract shall be governed and interpreted following the laws as specified in the PCC.
5. Standards	5.1	The Contractor shall ensure the application of such professional standards in all activities and operations undertaken under the Contract, as specified in the PCC. Such standards shall be the latest issued by the concerned national or international institutions.
	5.2	Without prejudice to the application of other standards, the Contractor shall ensure the application of all essential environmental and related sociocultural safeguards in all activities and operations undertaken under the Contract.
6. Notices	6.1	Any notice given by one party to the other according to the Contract shall be sent to the other party in writing by a registered post, or other digital means, followed by

		confirmation in writing on the address, as specified in the PCC.
7. Assets for Disposal	7.1	The Assets for disposal under the Contract will be as stated in the "Employer's Requirements".
8. Assets Location	8.1	The Assets' location(s) shall be the place(s) where the Assets to be disposed of are located, as specified in the "Employer's Requirements".
9. Country of Destination	9.1	The Assets to be disposed of under the Contract shall not be exported, directly or indirectly, to any country or territory, which has no trade relations with or has been on the negative list for exports from Pakistan, or placed under international sanctions for trade, as specified in the PCC.
10. Restrictions on End-users and Exports	10.1	The Employer shall impose restrictions on end-users and exports of the items disposed of, as specified in the PCC. The Successful Bidder shall have the capability to implement the restrictions in accordance with the affidavit furnished by the Contractor to this effect.
11. Packing	11.1	The Contractor shall be responsible for and shall comply with packing requirements for the assets for disposal, as specified in the PCC.
	11.2	The Contractor shall be responsible for and shall comply with labeling, marking, and documentation requirements, within and outside the packing for the assets for disposal, as specified in the PCC.
12. Insurance	12.1	The Contractor shall be responsible for the insurance requirements specified in the PCC. Failure to comply with this condition shall be sufficient grounds for termination of the Contract, with forfeiture of the Performance Security.
13. Warranty	13.1	The Assets disposed of shall be handed over to the Contractor on "as is where is" basis, and free from any warranty whatsoever.
14. Schedule of Requirements and Transfer of Assets	14.1	The Schedule of Requirements for the transfer and disposal of Assets under the Contract is specified in the "Employer's Requirements". The Contractor shall have full responsibility for and shall bear all risk and cost associated with, the transfer and disposal of assets, including collection, dismantling, conversion, removal, loading, and transportation or any other step or actions needed.
	14.2	The Contractor shall take over and remove the Assets as per schedule after the requisite payment for the Assets have been received by the Employer.
	14.3	The Contractor shall contact the designated person of the Employer to arrange for taking over and removal of the Assets as per the schedule, as specified in the PCC.
	14.4	The Contractor shall sign and deliver a handing/taking over note of the Assets, at the time of transfer of the assets.
	14.5	The Employer shall hand over the documents to the Contractor about the assets disposed of, as specified in the Employer's Requirements.
15. Transfer of Intellectual Property Rights	15.1	The intellectual property rights (designs, schemes, specifications, schematics, software, data, patents, trademarks, copyrights, trade secrets, knowhow etc.) associated with the Assets for disposal shall not be part of the Assets disposed of

		and transferred to the Contractor.
16. Performance Security	16.1	The Contractor shall furnish to the Employer a Performance Security, denominated in the currency of the Contract or any freely convertible currency, in the amount and on the Form, and within the time from the date of issue of the Letter of Acceptance, as specified in the PCC.
	16.2	The proceeds of the Performance Guarantee shall be payable to the Employer as compensation for any loss resulting from the Contractor's failure to complete its obligations under the Contract.
	16.3	The Performance Guarantee will be discharged by the Employer and returned to the Contractor not later than thirty (30) days following the date of completion of the Contractor's performance obligations under the Contract as confirmed by issuance of the Completion Certificate.
17. Incidental Services and Costs	17.1	The Contractor shall be required to provide any or all of the following incidental services, on its risk and cost, as specified in the PCC: a. performance or supervision of on-site activities at assets location and associated operations; b. furnishing of tools and equipment required for on-site activities at Assets Location and associated operations; c. provision and training of the staff and workforce needed for on-site activities at the Assets' Location and associated operations; and d. any other incidental item, depending on the nature of assets and mode of disposal.
18. Contract Price	18.1	The Contract Price for the performance under the Contract shall not vary from the Contract Price mentioned in the Letter of Acceptance, subject to the addition of delay damages or fines imposed, following other provisions of the Contract, and permissible adjustments, as specified in the PCC.
19. Taxes and Duties etc.	19.1	The Contract Price shall be exclusive of all costs of Contractor's plant, labour, supervision, execution, insurance, profit, together with all general risks, liabilities and obligations set out or implied in the Contract which shall be borne by the Contractor. Moreover, the total Contract Price quoted in the Price Schedule for each Lot, if any, shall be exclusive of any incidental charges, duties, all taxes including income tax and sales tax, cesses, commissions, fees and other levies, etc., which shall be paid/borne by and/or the liability of the Bidder as per the Applicable Law in relation to the Disposal of Assets.
20. Payments and Schedule of Payments	20.1	The Contractor shall pay to the Employer the Contract Price in lump-sum, or installments by the scheduled dates and in the specified manner, as per the Schedule of Payments specified in the PCC.
	20.2	In case of delay in the payment(s) by the Contractor to the Employer, under the Contract or any part thereof, within the agreed period specified in the Contract, the Employer will impose an interest on the Contractor for the period of the delay

		at a rate, as specified in the PCC.
	20.3	The currency of payment will be the same in which the Contract Price has been agreed.
21. Variation in the Assets for Disposal	21.1	The Employer shall not make any changes in the number and quantity of the Assets for disposal from that specified in the "Employer's Requirements" subject to GCC 22.1.
22. Contract Amendment	22.1	Any variation in or modification of the terms of the Contract shall only be made upon a written amendment signed by the parties to the Contract.
23. Assignment	23.1	The Contractor shall not assign, in whole or in part, its obligations to perform under the Contract, unless such assignment is permitted in the PCC. The assignment shall be subject to the prior written consent of the Employer.
24. Subcontracts	24.1	The Contractor shall not subcontract any part of its obligations to perform under the Contract to a subcontractor unless such subcontracting is permitted in the PCC. The subcontracting shall be subject to the prior written approval of the Employer, and shall not relieve the Contractor from any liability or obligation under the Contract.
	24.2	The subcontractor shall be bound, *mutatis mutandis*, by the terms and conditions of the Contract, to the extent of the scope of the sub-contract.
25. Delays in Contractor's Performance	25.1	The Contractor shall be bound to perform all obligations under the Contract, including the disposal activities and payment(s) to the Employer, in the stipulated time or schedule specified in the Contract.
	25.2	If at any time during the performance of the Contract, the Contractor or its subcontractor, if allowed, should encounter conditions impeding timely performance under the Contract, the Contractor shall promptly notify the Employer in writing of the fact of the delay, its likely duration and its causes. As soon as practicable after receipt of the Contractor's notice, the Employer shall evaluate the situation and may at its discretion extend the Contractor's time for performance, without the imposition of delay damages.
	25.3	Any delay by the Contractor in the performance of its obligations from the stipulated time or schedule described in the Contract shall render the Contractor liable to imposition of delay damages according to GCC Clause 26.1 unless an extension of time is agreed upon according to GCC Clause 25.2.
26. Delay Damages	26.1	If the Contractor fails to perform its obligation under the Contract or any part thereof within the period specified in the Contract, the Employer shall, without prejudice to its other remedies under the Contract, impose on the Contractor, as delay damages, a sum equivalent to the percentage of the Contract Price or unperformed portion of the Contract if practicable so, per day or week or month of delay as deemed appropriate, subject to a certain maximum limit, until the performance is fully restored, as specified in the PCC. Once the maximum limit is reached, the Employer will be entitled to proceed with the termination of the Contract according to GCC

		Clause 28.
27. Transfer Deed in shape of Sale Certificate	27.1	The transfer deed for the Assets disposed of, if any, will be executed on full payment of the respective Contract value and other dues and subject to fulfillment of any other conditions required to be fulfilled before such transfer as specified in the PCC. The Transfer Deed shall be in a format that is acceptable to the Employer and in case of any conflict between the terms of the Transfer Deed and this Contract, the terms of this Contract shall prevail.
	27.2	Consequent upon payment of the respective Contract value and signing of the Transfer Deed, the title to and possession of the Assets shall transfer to the Contractor. After the transfer of the Assets, the Contractor will have no recourse to the Employer or any other person involved in the disposal of the assets. The Contractor shall upon acquisition of the Assets, abide by all applicable bylaws, rules, and regulations about the dismantling, handling, removal, storage and disposal of the Assets, as may be amended from time to time, and while pursuing any development options, seek formal approval of the concerned development/regulatory authority.
28. Termination of Contract	28.1	The Employer, without prejudice to any other remedy for breach of the Contract, by written notice of default sent to the Contractor, may terminate the Contract in whole or in part, if the Contractor: a) fails to perform its obligations within the period specified in the Contract, or within any extension thereof granted by the Employer according to GCC Clause 25.2; or b) fails to perform any other obligation under the Contract, including under GCC Clauses 12.1, 20.1 and 26.1; or c) engages in corrupt or fraudulent practices in competing for or in executing the Contract, in the judgment of the Employer.
	28.2	The Employer may at any time terminate the Contract by giving written notice to the Contractor if the Contractor becomes bankrupt or otherwise insolvent. In this event, the termination will be without any compensation to the Contractor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Employer.
	28.3	The Employer, by a written notice sent to the Contractor, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the Employer's convenience, the extent to which the performance of the Contractor under the Contract is terminated, and the date upon which such termination becomes effective.
	28.4	In the event the Employer terminates the Contract in whole or in part, according to GCC Clauses 28.1, 28.2, or 28.3, the Employer shall take over the assets disposed of under the

		Contract present at the location of the assets and may dispose it of, upon such terms and in such manner as it deems appropriate. In the case of termination under Clauses 28.1 and 28.2, the Contractor shall be liable to the Employer for any loss incurred in this process, besides other penalties and blacklisting. The losses in such cases shall be recoverable from the Performance Security as well as through other legal means. In the case of termination under Clause 28.3, the Performance Security shall be returned to the Contractor, subject to outstanding adjustments, if any.
	28.5	In case the Contract is partly terminated, the Contractor shall continue the performance of the Contract to the extent not terminated.
29. Use of Contract Documents and Information; Inspection and Audit by the Employer	29.1	The Contractor shall not, without the Employer's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Employer in connection therewith, to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for such performance.
	29.2	The Contractor shall not, without the Employer's prior written consent, make use of any document or information referred to in the GCC Clause 2.1, except to perform the Contract.
	29.3	Any document, other than the Contract itself, referred to in the GCC Clause 2.1 shall remain the property of the Employer, and the documents and all copies thereof shall be returned to the Employer on completion of the Contractor's performance under the Contract.
	29.4	The Contractor shall permit the Employer to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Employer if so required.
30. Force Majeure	30.1	Notwithstanding the provisions of GCC Clauses 25, 26 and 28, the Contractor shall not be liable for forfeiture of its Performance Security, delay damages, or termination for default if and to the extent that its delay in performance or other failures to perform its obligations under the Contract is the result of an event of Force Majeure.
	30.2	For this Clause, "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and is not foreseeable. Such events may include but are not restricted to, acts of government in its sovereign capacity, wars or revolutions, fires, earthquakes, hurricanes, floods, epidemics, pandemics, quarantine restrictions, terrorism, explosions, strikes, and freight embargoes.
	30.3	If a Force Majeure situation arises, the Contractor shall promptly notify the Employer in writing of such condition and the causes thereof. Unless otherwise directed by the Employer in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance

		not prevented by the Force Majeure event.
31. Resolution of Disputes	31.1	In case any dispute or difference of any kind whatsoever arises between the Employer and the Contractor in connection with or arising out of the Contract, the parties will make every effort to resolve amicably such dispute or difference by mutual consultation.
	31.2	Any dispute between the Employer and the Contractor as to matters arising pursuant to this Contract which cannot be settled amicably within thirty (30) days after receipt by one party of the other party's request for such amicable settlement may be submitted by either party for settlement in accordance with the provisions of the Arbitration Act, 1940 (Act No. X of 1940) and Rules made thereunder and any statutory modifications thereto. The Venue for arbitration shall be Islamabad, Pakistan. The Contractor shall continue to perform its obligations under the Contract, if reasonably possible, during the arbitration proceedings.
32. **Security of the Contractor's Personnel**	32.1	The Contractor shall be responsible for the safety and security of their personnel at all times during the period of the Contract. The Contractor shall follow all advice(s) and standard operating procedures issued, from time to time, by the Government of Pakistan, provincial and local government(s), and relevant law enforcement agencies and authorities related to the safety and security of personnel in general, and foreigners in particular. All costs incurred under this provision shall be deemed included in the Contract Price.
33. Compliance with Laws	33.1	The Contractor shall comply with all applicable laws in force in the Employer's Country. The laws will include all national, provincial, municipal, or other laws and are binding upon the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from the violation of such laws by the Contractor or its personnel, including the Subcontractors and their personnel.
34. Completion Certificate	34.1	The Contractor shall notify the Employer (in writing) to issue the Completion Certificate after the Contractor has satisfactorily performed all his obligations under the Contract including the following: a) Dismantling of all Assets. b) Removal of all Assets outside the premises of Plant. c) Removal of Contractor's equipment, temporary facilities, and manpower from the premises of Plant. d) Clearance of site from any hazardous waste, materials etc. Within 30 calendar days after the delivery of such notice, the Employer shall verify the completion of the disposal works and either issue to the Contractor the Completion Certificate indicating the date on which the disposal works were

		completed, or specify the damages (if any) and/or outstanding works, which are required to be completed by the Contractor. Upon completion of specified damages (if any) and/or outstanding works, the Contractor shall again notify the Employer in writing for issuance of Completion Certificate. The Completion Certificate shall be deemed to constitute completion of the Disposal of Assets.
35. Appointment of Assistants/Firm	35.1	The Employer may appoint any person(s)/firm to assist the Employer in the carrying out of his duties under the Contract. The Employer shall notify to the Contractor the names, duties and scope of authority of such person(s)/firm.
36. Festivals and Religious Customs	36.1	The Contractor shall respect the Employer's Country's recognized festivals, days of rest and religious or other customs.
37. Funeral Arrangements	37.1	The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the works.
38. Confidentiality	38.1	The Parties shall treat as confidential all information received or obtained as a result of or in connection with entering into or performing this Contract: Any information to be disclosed in terms of this Contract to any third party shall only be disclosed after consultation between and with the mutual consent of the Parties in writing by both the Parties. The restriction in this clause shall not apply in respect of the information in question that: a) Has been lawfully been obtained, free of any duty of any confidentiality; b) Is already in the public domain, other than a breach of this Clause; c) Is necessarily disclosed because of a statutory obligation or upon order of the competent court of jurisdiction or before any competent body having authority to have disclosure.
39. Labor Laws	39.1	The Contractor shall comply with all the relevant labor laws applicable to the Contractor's Personnel, including laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights. The Contractor shall at all times during the progress of the Contract use its best endeavors to prevent any unlawful, riotous or disorderly conduct or behavior by or amongst its employees and the labor of its Subcontractors.

40. Child Labor	40.1	The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in the Employer's Country.
41. Minimum Wages	41.1	The Contractor shall pay minimum wages set by the government in accordance with relevant law(s) in force in the Employer's Country.

Part-II

Particular Conditions of Contract

Part-II

Particular Conditions of Contract

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Part-II

Particular Conditions of Contract

1. Definitions (GCC Clause 1)

GCC 1.1 (i): The Employer is Jamshoro Power Company Limited (JPCL) represented by Chief Executive Officer.

GCC 1.1 (j): The Employer's country is Islamic Republic of Pakistan.

GCC 1.1 (m): The Assets of JPCL comprise of the following Lot:

- Lot-1: TPS Jamshoro – Unit-01 to Unit-04 (880MW)

GCC 1.1 (n): The Project Site is located at the places as described in the Employer's Requirements.

2. Governing Language (GCC Clause 3.1)

The name of the Governing Language: English

3. Applicable Law (GCC Clause 4.1)

The Applicable Law shall be the laws of Islamic Republic of Pakistan.

4. Standards (GCC Clause 5.1)

- ISO 9001: Quality Management Systems
- ISO 14001: Environmental Management Systems
- ISO 45001: Occupational Health and Safety Management Systems
- ISO 22320: Emergency Management — Incident Response
- OSHA Standards: Occupational Safety and Health Administration Guidelines
- NFPA Standards: National Fire Protection Association Guidelines

OR
Equivalent Standards

- Local Environmental Laws and Regulations

5. Notices (GCC Clause 6.1)

Addresses of the parties to the Contract for issuing notices and correspondence shall be:

a) The Employer:

Jamshoro Power Company Limited (JPCL)
Thermal Power Station, Jamshoro

b) The Contractor:

(To be filled in at the time of signing of the Contract)

6. Country of destination (GCC Clause 9.1)

The list of the countries, which shall not be the destination for export of the assets to be disposed of under this Contract is: Other than 'Pakistan or Eligible Countries'. Eligible countries are those which have been notified by Ministry of Interior, Government of Pakistan as Business Friendly Countries (BVL); information can be accessed through following link:

https://visa.nadra.gov.pk/business-visa-list-bvl/

7. Restrictions on end-users and exports (GCC Clause 10.1)

The assets for disposal under this Contract shall be subject to the following restrictions:

On end-users: The Assets disposed of or any part thereof shall not be used in the production of food items for human consumption.

On exports: The Assets disposed of or any part thereof shall not be exported to other countries mention in PCC 6. The Contractor shall ensure that the obligations in PCC 6 and 7 are also contained in any agreement in respect of the Assets that in enters into with any end-user or third-party.

8. Packing (GCC Clauses 11)

GCC 11.1: The assets for disposal shall be removed from Assets' Locations in appropriate and safe containers/transport vehicles.

9. Insurance (GCC Clause 12.1)

In accordance with the provisions of GCC Sub-Clause 12.1, the Contractor shall at its own expense take out and maintain in effect, during the performance of the Contract, the insurances set forth below. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer. For the deductibles, if any, the Contractor shall indemnify and keep indemnified the Employer for the amount of deductibles provided in the insurance policy.

Third Party Liability Insurance

The Contractor shall obtain third party liability insurance covering bodily injury or death suffered by third parties (including the Employer's personnel) and loss of or damage to property (including the Employer's property/ the existing plant/equipment/structures other than the Assets to be disposed of under the Contract) occurring in connection with the Contractor's operations regarding disposal of Assets.

Workers' Compensation Insurance

The Contractor shall also obtain workers' compensation insurance in accordance with the statutory requirements applicable in the Employer's Country.

Insurance of Assets

The Contractor may, before commencing the disposal work, obtain insurance on an 'All-Risks' basis, covering the full replacement cost of the Assets to be disposed of, and this is mandatory.

The Contractor shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies as stated above.

10. Schedule of Requirements and Transfer of Assets (GCC Clause 14)

GCC Clause 14.3: Time for Completion of taking over and removal of the Assets under this Lot shall be as under reckoned from the Commencement Date.

Lot-1:20 Months

11. Performance Security (GCC Clause 16)

GCC Clause 16.1—The amount of Performance Guarantee shall be Ten percent (10%) of the Contract Price (exclusive of taxes) in the form of an unconditional and irrevocable Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan, to be furnished within a period of 14 days after the receipt of Letter of Acceptance.

In case of Joint Venture, the Performance Security shall be in the name of the Joint Venture or in the name of Lead Firm.

12. Incidental Services and Costs (GCC Clause 17.1)

The Contractor shall be required to provide all of the incidental services, on its risk and cost as mentioned in GCC 17.1.

13. Contract Price (GCC Clause 18.1)

Permissible adjustments in the Contract Price: None

14. Payments and Schedule of Payments (GCC Clause 20)

GCC Clause 20.1 The Contract Price to be paid by the Contractor to the Employer shall be a lump sum amount and shall be paid by the Contractor by choosing one of the following two options:

Option 1:

Description	Percentage of the Contract Price	Payment Condition
Upfront payment	Hundred percent (100%)	Within seven (7) days after the signing of the Contract Agreement.

If the Contractor opts for Option 1, the Contractor shall be allowed to dismantle and remove any Asset from the Project Site after the Commencement Date.

Option 2:

Description	Percentage of the Contract Price	Time for Payment	Condition
1st Installment	Thirty percent (30%)	Within seven (7) days after the signing of the Contract Agreement.	• Only dismantling allowed. • Material removal / taking out from the Project Site not allowed.
2nd Installment	Twenty-five percent (25%)	Within thirty (30) days after the Commencement Date.	• Dismantling may continue. • After this payment, removal / taking out of only the following Assets from the Project Site shall be allowed: a) Electric generators (for clarity, turbines are not considered part of the electric generators)

Description	Percentage of the Contract Price	Time for Payment	Condition
			b) Motors c) Transformers d) Breakers and switchgear ***(Cables of any type shall not be allowed to be removed / taken out from the Project Site)***
3rd Installment	Twenty-five percent (25%)	Within sixty (60) days after the Commencement Date.	• Dismantling may continue. • If this installment is not paid within scheduled time period, the Contractor shall not be allowed to remove / take out the Assets mentioned under the 2nd Instalment from the Project Site until the due payment is made
4th Installment	Twenty percent (20%)	Within ninety (90) days after the Commencement Date.	• Dismantling may continue. • After this payment only, the Contractor shall be allowed to remove all the remaining Assets from the Project Site.

Notwithstanding above, the Contractor can remove / take out 100% of the Assets after payment of full Contract Price at any stage before 4th and final installment.

In the event that the Contractor fails to make full payment of the Contract Price within ninety (90) days from the Commencement Date, the Employer shall issue a written notice of seven (7) calendar days to the Contractor, requiring the payment of the outstanding amount.

If the Contractor fails to remit the remaining balance within the stipulated seven (7) calendar days, the Employer reserves the absolute right to:

1- Forfeit all amounts paid or deposited by the Contractor at the Contractor's cost and expense;
2- Forfeit the Performance Guarantee at the Contractor's cost and expense; and
3- Claim interest on delayed payment in accordance with Sub-Clause GCC 20.2 of the Contract Documents.

The rights and remedies available to the Employer under this Clause shall be without prejudice to any other legal or contractual remedies available to it.

GCC Clause 20.2 Rate of interest shall be KIBOR+3% per annum for Pakistani Rupee and SOFR+3% per annum for foreign currency on the delayed amount.

15. Assignment (GCC Clause 23.1)

An assignment of the Contract in whole or in part is not permitted.

16. Subcontract (GCC Clause 24.1)

Subcontracting of the works to be performed under the Contract is permitted.

17. Delay Damages (GCC Clause 26.1)

The rate of the Delay Damages shall be 0.05% of the Contract Price per day of delay subject to a maximum of 10% of the Contract Price.

18. Transfer Deed (GCC Clause 27.1)

The Transfer Deed shall be executed in a form acceptable to the Employer after the fulfillment of the following conditions:

(i) Acceptance of the Bid;

(ii) Furnishing of the Performance Security by the Contract;

(iii) Execution of the Contract;

(iv) Payment of the respective Contract value by the Contractor to the Employer;

(v) Payment of all taxes, duties, cesses, commissions, fees, etc. required to be paid prior to the transfer of the Assets from the Employer to the Contractor;

(vi) NOC from any government/regulatory body or authority, if applicable.

EMPLOYER'S REQUIREMENTS

Volume-II

Employer's Requirements

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Abbreviation & Definition

JPCL	Jamshoro Power Company Limited
Contractor	The contractor assigned for dismantling & disposal of respective Lot
Employer	Jamshoro Power Company Limited (JPCL)
GENCO-I	Generation Company-I (JPCL)
TPS	Thermal Power Station
ST	Steam Turbine
Units/Plants	Public Assets
OSHA	Occupational Health & Safety Administration
ISO	International Organization for Standardization
CC	Completion Certificate
NG	Natural Gas
HSD	High Speed Diesel
RFO	Residual Furnace Oil

1. INTRODUCTION

Jamshoro Power Company Limited (JPCL) hereinafter called the "Employer" intends to award a contract(s) dismantle and dispose of its old and defunct power plants on '**AS IS WHERE IS BASIS'**, located at different locations in Sindh province.

This document covers the scope and requirements for dismantling and disposal of complete power plant/Lot along with all primary and secondary, directly and indirectly associated equipment, structure (metallic/steel), piping, cabling, instrumentation, store stocks etc. along with associated transportation, loading/unloading of equipment, **except those mentioned under "Exclusions" of each Lot**.

The purpose of this document is to outline the scope of work, technical specifications, safety guidelines, environmental considerations, and other essential conditions for the dismantling and disposal of the following power plants of Jamshoro Power Company Limited (JPCL). The units / power stations are grouped into Lots as described hereunder:

Table 1-1: Descriptions of Lots

Lot No.	Description	Location	Installed Capacity (MW)
Lot 1	TPS Jamshoro	Jamshoro, Pakistan	880

Each Lot is referred to as the "Assets".

2. PROJECT SCOPE

The Scope of Work for each Lot comprises, but shall not be limited to, the complete dismantling; disposal of plants/Lots including arrangement of equipment, machinery, tools, cranes, fuel oil, gas, electricity for safe dismantling and disposal; packing and marking; insurance; loading and unloading; storing, transport from plant to outside premises.

The Contractor shall cover all the works related to the dismantling and disposal of equipment along with all primary and secondary, directly and indirectly associated equipment, structure (metallic/steel), piping, cabling, instrumentation on **'AS IS WHERE IS BASIS'**.

Before preparing their Bids, the Bidders are advised to visit defunct Plants/Lots and have meetings with Employer to make them fully conversant with the assets, and the extent of works required dismantling/disposal scope and exclusions.

The Contractor shall perform dismantling and disposal work in full coordination with Employer so as to avoid damaging any live cables, pipes and equipment. Further, all the excluded cables, pipes, equipment, structures etc. shall also be safeguarded against any damage.

2.1 General Scope of Work

This sub-section outlines the General Scope of Work for the dismantling of defunct thermal power plants. The scope ensures a safe, efficient, and environmentally compliant execution of dismantling activities while addressing the technical, environmental, health, and safety requirements.

The primary objectives of the project are:

i. To ensure safe dismantling and disposal of equipment, structures, piping, cabling, and materials etc. from defunct power plants/Lots.

ii. To maintain technical integrity of shared facilities and operational interfaces with adjacent infrastructure.

iii. To guarantee environmental compliance and safe disposal of hazardous waste.

iv. To restore the site to an agreed state post-dismantling.

v. To execute the project in compliance with international best practices and local regulatory requirements.

This scope includes as minimum:

1) Dismantling of Various Equipment

i. Dismantling of all equipment, interconnected piping and utility lines along with insulation and cladding etc. associated with all piping, platforms and walkways, etc.

ii. Dismantling of all field instruments and their associated cabling up to the field junction boxes etc.

iii. All process and utility (such as cooling water, fuel oil, gas, boiler feed water, LP steam, Main steam supply, service air, instrument air etc.) connections connected with rotating equipment and its auxiliaries shall be dismantled.

iv. All switchgears, breakers for MV/LV and their respective cabinets.

2) Removal of Erected Piping (Above Ground)

i. Removal of erected piping including valves etc. at all elevations removal of insulation from insulated lines, removing supports, all fittings and flanges, instruments, etc.

ii. All the instruments such as pressure gauges, temperature gauges, transmitters, on/off valves, control valves etc. with necessary connections, shall be dismantled.

iii. The Contractor shall remove and safely dispose of all oil and Chemical from piping and equipment before start of dismantling activities in any area.

3) Dismantling of The Static Equipment

i. Disconnecting all the piping connections and instrument, ladder and platforms to make the equipment free of all attachments. Holding the equipment with proper care before dismantling the equipment. Holding and Dismantling shall be done using appropriate cranes only. Contractor shall provide necessary scaffolding, all tools, slings and shackles, equipment, apparatus etc., and completing the work in all respect at all heights.

ii. Dismantling of tanks for the storage of fuel oil, chemical, lube oil, hydraulic oil, water etc. along with all associated accessories are included in the scope of work.

4) Dismantling of Electrical and Instruments

i. Pump Motors, compressor motors, electrical panels, Local Push Button Stations and associated power and control cabling system, cable trays, Lighting Poles, Lighting fittings on poles along with lighting accessories such as cables, junction boxes etc., earthing electrodes with earthing strips. Electrical cables connecting to the motors to be removed shall be dismantled.

ii. Dismantling of all Instrument cable trays, cable tray supports, junction boxes, instrument stanchions, push buttons and air manifold stations shall be undertaken.

5) Hard Barricading

i. The Contractor shall ensure safety of the working personnel within the work area by barricading the work area.

6) Cranes/Equipment/Tools

i. The Contractor shall arrange all the necessary equipment, machinery, tools, cranes, trucks, trailers, containers, fuel oil, gas, electricity and all other related accessories for dismantling and disposal of plant/units/lots.

ii. For the disposal of liquid consumables like oils, fuel and chemicals, the Contractor shall arrange oil/chemical containers, pumps and tankers etc. for safe temporary storing at sites and disposal from sites.

7) Method Statements

i. The Contractor shall submit detailed method statements of dismantling of major equipment, before starting the specific job, with respect to sequence of activities, rigging plans, safety and emergency mitigation measures and submit to Employer for review. Any special safety requirements in case of emergency etc. shall be provided. The work is to be extensively planned to ensure the units/equipment could be safely dismantled without impeding on the adjacent plants and structures and without risk to personnel.

ii. The Contractor shall submit method statements for dismantling of equipment along with associated piping and cabling and disposal of consumables, lubricants, fuels and chemicals safely from site premises.

8) Clean Conditions

i. The Contractor shall maintain the dismantling area in a clean and tidy condition throughout the entire working period. Accumulated debris and waste materials shall be hauled/removed from the site and disposed of at an approved/designated location on daily basis to maintain clean conditions.

ii. Water sprinkling shall be done for dust suppression in the dismantling area.

9) Safety Precautions

i. Contractor shall obtain necessary work permits/approvals before starting dismantling work. The request for work permit shall not be unreasonably withheld.

ii. Contractor shall follow all safety guidelines conveyed by Employer.

iii. The Contractor shall adhere to safe demolishing/dismantling practices at all stages of work to guard against accidents, hazardous and unsafe working procedures.

iv. Temporary enclosures/fencing, warning lights, warning signs etc. as per safety requirements shall be provided by Contractor to prevent accidents.

v. All equipment, pipes, fixtures etc. located in the vicinity shall be protected by suitable means, as decided by Employer, during demolishing and dismantling operation.

vi. Contractor shall deploy a dedicated safety engineer during the execution of dismantling and disposal work.

vii. Good housekeeping shall be maintained by the Contractor during the entire job.

viii. Adequate firefighting and safety equipment in according to the requirement shall be arranged by the Contractor at site including fire hoses, fire extinguishers, safety belt, lifelines, hard helmets, safety shoes, hand gloves, all PPEs, gas detectors, oxygen meter, etc.

ix. Fireproof cloth wherever required to restrict the flying sparks due to cutting, welding, grinding etc. will be required to be provided by the Contractor.

x. All workmen should wear safety belts / lifeline wherever they work above 2 m elevation without permanent support /platform. Workmen shall always wear helmet & safety shoes while on the site / work area.

xi. Scaffolding for working at elevations along with suitable safety harness for personnel shall be used.

xii. Maximum two shifts (Morning and evening) each of eight hours will be allowed, however dismantling work after 10:00pm will not be allowed. Contractor will be allowed to work on Sundays and holidays with prior approval of Employer.

xiii. Removal of dismantled material from the Plant premises is not allowed after Sunset.

10) Accommodation & Facilities

i. Contractor shall arrange temporary accommodation for its employees outside the plant's premises.

ii. Contractor shall also arrange all necessary utilities for their staff at project site.

2.1.1 Pre-Dismantling Phase

2.1.1.1 Site Survey and Documentation

i. Identify shared facilities and interfaces with operational plants, if applicable.

ii. Prepare a site-specific dismantling and disposal plan for each plant.

iii. Submit site specific method statements for dismantling and disposal work.

iv. Identify any hazardous materials (e.g., chemical residues, transformer oils, fuel oil etc.).

v. Conduct risk assessments for structural integrity, fire hazards, and environmental risks.

vi. Develop interface isolation plans for shared utilities and facilities.

2.1.1.2 Permitting and Compliance

i. Obtain all regulatory approvals and permits for dismantling and disposal.

ii. Comply with local and international environmental standards (e.g., OSHA, NFPA etc.).

iii. Coordinate with relevant authorities for waste transportation and disposal permits.

2.1.1.3 Utilities Isolation and Deactivation

i. Employer shall implement a Utility Isolation Plan covering:

- Electrical systems
- Water supply systems

- Drainage systems
- Fuel and gas pipelines
- Any other utilities, as applicable

ii. Contractor shall verify complete deactivation and isolation before dismantling begins.

iii. The Employer shall provide all information regarding isolations/interfacings.

2.1.2 Dismantling Phase

2.1.2.1 Equipment and Structure Dismantling

i. Prepare method statements and rigging plans for dismantling heavy equipment, including turbines, generators, HV breakers, boilers, and transformers.

ii. Safely dismantle all equipment / systems included in the scope.

iii. Follow sequence-based dismantling methodologies to prevent damage to adjacent structures or equipment.

iv. All lifting equipment, materials, tools, cranes, fixtures and any other shall be third part tested. The Contractor shall submit the certificate to the Employer.

2.1.2.2 Safety & Security

i. The safety and security of all the equipment, parts and materials, etc. brought by the Contractor at site as well as dismantled equipment and parts shall be the responsibility of the Contractor.

ii. The Employer shall provide a designated place, if available for the storage of dismantled parts for a specific period of time. If any location is not available, then the Contractor shall arrange its own place outside the premises of plant.

2.1.2.3 Hazardous Material Handling

i. Safely identify, handle, and dispose of hazardous materials, including:

- Chemicals and residues from dosing systems
- Transformer oils
- Fuel oil
- Lube oil

ii. Safely dispose of hazardous materials to appropriate places as designated by Employer, in compliance with local regulations.

2.1.2.4 Waste Management and Disposal

i. Develop and implement a Waste Management Plan.

ii. Transport waste materials, if any, to appropriate places as designated by Employer, in compliance with local regulations.

2.1.2.5 Site Safety and Environmental Compliance

i. Implement Health, Safety, and Environment (HSE) Plans.

ii. Implement emergency response plans for fire, spills, and structural failures.

iii. Prevent airborne contaminants (e.g., dust, asbestos fibers) during dismantling.

2.1.2.6 Documentation and Reporting

i. Maintain detailed records of dismantling activities.

ii. Maintain a project schedule for each Lot. If one Contractor is managing different lots then separate schedule shall be maintained for each Lot.

iii. Provide fortnightly progress and safety reports to the Employer.

iv. Document any incidents or near misses with corrective measures within 24 hours.

2.1.3 Post-Dismantling Phase

2.1.3.1 Site Clearance and Restoration

i. Remove all dismantled equipment, material, debris and temporary structures from the site.

ii. Remove all the machinery, equipment, tools, and cranes etc. brought by Contractor for dismantling and disposal activities.

iii. Restore the site to pre-agreed conditions.

2.1.3.2 Final Documentation and Handover

i. Conduct a final joint inspection with the Employer. Contractor will remove all the deficiencies/ discrepancies as pointed out by Employer.

ii. Prepare a Dismantling Completion Report.

2.2 Handing Over of Assets

The process of handing over of Assets included in the respective Lots shall take place through a Transfer Deed to be executed between the Employer and the Contractor, after fulfilment of the conditions laid down in the Conditions of Contract.

After execution of the Transfer Deed and receipt of written confirmation by the Employer of the fulfilment of any outstanding requirements, the Contractor shall initiate the transfer of Ownership and/or title of the Assets included in the respective Lots.

The Contractor shall assume full responsibility for the transfer process and shall bear all associated risks and costs.

The transfer of Ownership and/or title must adhere to all applicable local legislation. The Employer shall provide facilitation to the Contractor in this process where necessary and applicable.

Concurrently, the Contractor shall begin the dismantling and disposal of the respective Lots as per the Project Schedule provided under this Contract.

3. DESCRIPTION OF LOTS

3.1 General

The following is the breakup of the units installed at each of the power plants/Lots under JPCL which are being dismantled and disposed of:

Table 3-1: Overall Plant's Capacities & Location of JPCL

Plant	Location	Unit No.	Type	Capacity (MW)	Make	Fuel	Commissioned (year)
Lot - 1 TPS Jamshoro (880 MW)	Jamshoro, Pakistan (25° 28′ 20″ N , 68° 15′ 58″ E)	1	Steam Turbine	250	FUJI ELECTRIC CO: JAPAN	F. O	1990
		2	Steam Turbine	210	M/s Harbin Works, China	NG & F. O	1989
		3	Steam Turbine	210	M/s Harbin Works, China	NG & F. O	1990
		4	Steam Turbine	210	M/s Harbin Works, China	NG & F. O	1991

3.2 Project Completion Timelines

The Project completion timelines i.e., the dismantling and disposal of Public Assets from site for respective Lots are given below:

Table 3-2: Project Completion Timelines for Lots under JPCL

Lot No.	Plant	Time of Completion from Commencement Date (Months)
Lot-1	Block – 1 TPS Jamshoro (880 MW)	20

3.3 Lot 1: Thermal Power Station Jamshoro Unit-01 to Unit-04 (880MW)

The Jamshoro Power Plant Unit 1-4, located in Jamshoro, Sindh, Pakistan, has a total installed capacity of 880 MW. It's a gas and furnace oil based thermal power plant operated by the Jamshoro Power Company. The first phase of the project was commissioned between 1989 and 1991. The plant concerned has the following configuration.

Table 3-3: Lot-1 TPS Jamshoro Turbine Configuration

Plant	Location	Unit No.	Type	Capacity (MW)	Make	Fuel	Commissioned (year)
Block - 1 TPS Jamshoro (880 MW)	Jamshoro, Pakistan (25° 28′ 20″ N, 68° 15′ 58″ E)	1	Steam Turbine	250	FUJI ELECTRIC CO: JAPAN	F. O	1990
		2	Steam Turbine	210	M/s Harbin Works, China	NG & F. O	1989
		3	Steam Turbine	210	M/s Harbin Works, China	NG & F. O	1990
		4	Steam Turbine	210	M/s Harbin Works, China	NG & F. O	1991

3.3.1 Site Visuals

Some of the on-site visuals are as follows.

Figure 3-1: Lot-1 TPS Jamshoro

3.3.2 Major Equipment Installed

The plant mainly consists of following facilities:

3.3.2.1 Steam Turbines (ST)

Following are the specifications of the steam turbine unit-1.

Table 3-4: Lot-1 TPS Jamshoro Unit-01 ST Specifications

Sr. No.	Description	ST Unit-1
1.	Make	FUJI Electric Co; Ltd. Japan
2.	Type	3-casing double flow exhaust condensing turbine
3.	Output (MW)	250
4.	Main Steam Pressure (kg/cm²)	169
5.	Main Steam Temperature (°C)	538
6.	Exhaust Steam Back Pressure (mmHgabs)	132

Following are the specifications of the steam turbine unit-2, 3 & 4.

Table 3-5: Lot-1 TPS Jamshoro Unit-02 to Unit-04 ST Specifications

Sr. No.	Description	ST Unit-2, 3 & 4
1.	Make	Harbin Turbine Works, China
2.	Type	Reheat condensing, Tandem compound double flow
3.	Output (MW)	210

3.3.2.2 Boiler and Auxiliaries

The following shows some specifications of the boilers.

- 4X Units of approx. 795,600 kg/hr.
- Design Pressure: 196 kg/cm^2
- Design Temperature: 541 Deg. C
- The boiler unit and all its allied equipment and auxiliaries.

3.3.2.3 Condenser

The condenser mainly consists of, but shall not be limited, to the following items:

- Condenser tubes (SS)
- Water boxes with rubber lining and cathodic protection
- 100 % bypass operation of steam turbine
- Hot well
- Expansion joints
- All interconnecting pipes related to above mentioned systems
- All kind of valves

3.3.2.4 Condensate and Feed Water System

The feed water system consisting of condensate pumps, feed water pumps, LP & HP heaters, associated piping, as well as all relevant auxiliaries.

3.3.2.5 Balance of Plant (BOP)

All major balance of plant includes:

- Mechanical Draught Cell type Cooling Towers with pumps, motors and fans
- Compressed Air System
- Closed cooling water system
- Once through cooling water system
- Firefighting system including protection and network piping of whole plant
- Fuel handling (Pumping, decanting & forwarding system)
- Emergency Diesel Generator Set
- All kind of valves
- Overhead Cranes and hoisting facilities.
- Fuel gas pipeline downstream of gas mixing station
- Fuel Oil Tanks
- Warehouse/ Stores
- HVAC system
- All power and controls cables along with cable trays/ supports related to above mentioned systems

3.3.2.6 Electrical

3.3.2.6.1 Steam Turbine Generator-01 (250 MW)

In machine hall of Block-1, Two (02) Gas Turbine Generators are installed with following specification:

Table 3-6: Lot-1 TPS Jamshoro Unit-01 ST Generator Specifications

Sr. No.	Description	Unit 1
1.	Make	FUJI ELECTRIC CO: JAPAN
2.	Type	TLRI 108/36 / TLRI 108/37
3.	Rated Capacity (MVA)	294.20
4.	Rated Voltage (kV)	16.5 ± 10 %

5.	Rated Current (Amp)	10294
6.	Power Factor	0.85
7.	Speed (RPM)	3000
8.	Medium of Cooling Rotor	Hydrogen Cooled

3.3.2.6.2 Steam Turbine Generator-02, 03, 04 (210 MW Each)

In machine hall of Block-1 One (01,) Steam Turbine Generators of unit 2, 3 & 4 are installed with following specification:

Table 3-7: Lot-1 TPS Jamshoro Unit-02, 03, 04 ST Generator Specifications

Sr. No.	Description	Unit 2, 3 & 4
1.	Make	Harbin Electric Machinery Works China
2.	Type	QFSN – 210 - 2
3.	Rated Capacity (MVA)	247
4.	Rated Voltage (kV)	15.75 ± 10 %
5.	Rated Current (Amp)	9065
6.	Power Factor	0.85
7.	Speed (RPM)	3000
8.	Medium of Cooling Rotor	Hydrogen Cooled

3.3.2.6.3 Transformers

Following is the list with specification of major transformers:

Table 3-8: Lot-1 TPS Jamshoro Transformer Specifications

Sr. No.	Description	Rating		Qty.
		kV	Power	Nos.
1	Main Transformer (T-1)	16.5/ 220 kV	294.2 MVA	1
2	Auxiliary Transformer (GT)	16.5/ 6.6 kV	25000 KVA	2
3	Starting Transformer (GT)	220/ 6.6 kV	25000 KVA	2
4	0.4 KV Busbar Transformer	-	-	17
5	Main Transformer (T-2,3,4)	15.75/ 220 kV	247 MVA	3
6	Auxiliary Transformer (GT-2,3,4)	15.75/ 6.9 kV	25000 KVA	3
7	Starting Transformer (GT-2,3,4)	220/ 6.9 kV	25000 KVA	2
8	0.4 KV Busbar Transformer (unit- 2,3, 4)	-	-	81

3.3.2.6.4 Central Control Room for Block- 1 (880 MW)

Central Control Room (CCR):
Two (02) number of control rooms dedicated for unit 1&2 and Unit 3&4 respectively containing Control and protection panels for: steam turbine, generators, transformers, etc.

6.6kV & 0.4kV Switchgear and Battery Room (Unit-1-4):
LVAC (415V), LVDC distribution panels, 6.6kV Switchgear Panels, battery banks chargers
Note: *All panels, electrical equipment, circuit breakers, electrical facilities, and any associated equipment not mentioned or listed above are considered to be included in the scope of work.*

3.3.3 Piping and Cabling

All piping (above ground) and cabling (above ground/under trenches and in cabling conduits) are included in the dismantling scope, except those as mentioned in the exclusions.

3.3.4 Store Stock, Spares, and Consumables Associated with Defunct Plant

All store stock, spares and consumables associated with defunct power plant, shall be included within the dismantling and disposal scope. Additionally, consumables such as chemicals, fuel oil, lubricating oils, and transformer oils, whether stored in tanks/warehouses or within equipment/piping/transformers shall also be considered part of the scope. The contractor shall conduct his own survey.

Furthermore, fuel oil tanks contain a combination of dead stock and usable fuel. The responsibility for the disposal of this fuel shall rest with the Contractor.

The list of store stocks, spares and consumables are available in Appendix-03, *'Store Stocks, Spares and Consumables'.*

3.3.5 Exclusions in Dismantling Scope

1. Water supply system as well as auxiliary electrical power supply for internal/external lighting (including road/boundary wall lighting network), low voltage transformers and allied equipment, HVAC systems etc. of Admin building, Control Room, Water supply pumps and service pumps for power plant and residential staff colony. The complete system of water supply is called INTAKE PUMPING STATION, WATER PRE-TREATMENT AREA (WPTA) Units NO 1,2,3&4 and DEMI Plants Unit NO 1,2,3 & 4. All power and control cables associated with excluded scope of work shall be segregated (dead/alive) and be isolated from the power plant by JPCL prior to entering dismantling and disposal phase of the project.

2. For the required power supply to the above said buildings/amenities/areas, an existing starting transformer (T6) having 25MVA power rating 132/6.9kV along with their Stand by Transformer having same ratings, all necessary allied accessories and associated existing electrical components dedicated for these buildings/amenities/areas i.e. MV panels/switchgears, MV cables, Control Room, Battery bank, Battery chargers, Relay Room, Distribution Transformers, Emergency diesel generator sets, LV panels, LV cables etc. List is attached at Appendix-05 shall be excluded from the scope of work. Red marked Single Line Diagram is also attached which indicates the retention of equipment in JPCL 880MW power plant.

3. Circuit breakers Q2 and Q3 (One and half breaker scheme) which are located at 500/220/132kV NTDC switchyard, currently have synchronizing control from control room of the powerhouse. However, after dismantling of powerhouse, remote synchronizing arrangement of both breakers' operation/control/protection scheme shall need to be relocated by NTDC at 220kV grid Station as per NTDC requirements. Moreover, the protection equipment CT's and PT's (if any) of above-mentioned breaker's metering/protection may also need to be relocated from the existing powerhouse to NTDC Grid Station as per their requirements prior to entering into the dismantling and disposal phase of the project.

4. Dismantling of buildings made of concrete and civil structures supported by steel columns/beams are excluded from the dismantling and disposal scope of work.

5. Piping and cabling which are directly buried are excluded from the scope of dismantling and disposal scope of work.

6. All potable water, HVAC & sanitary wastewater systems including piping and pumps supplying facilities to the colony, if available and/or plant buildings are to be kept in operation and shall be retained. **ANY PIPING INSIDE THE BATTERY LIMITS WHICH ARE TO BE RETAINED SHALL BE EXCLUDED FROM DISMANTLING AND DISPOSAL SCOPE.** The Contractor shall carry out its works without damaging said piping, cabling, and any other equipment.

7. Electrical store items for WPTA and Intake Pumping station which are to be used for intake pumping station, Water pretreatment Area (WPTA) and Demi plant are included in exclusion list (List is attached with item code number) as Appendix 05.

8. Mechanical Store items for WPTA and Intake Pumping station List of mech store items with item code is included in Exclusion List attached at Appendix 05.

9. Electrical Line material for Residential colony electrical supply which is placed in JPCL Store is excluded from scope of work and is added in exclusion list at Appendix 05.

10. Chemical Treatment of water at JPCL is very important hence chemical testing equipment etc. are to be retained by JPCL compete list is attached in exclusion scope attached at Appendix 05.

11. Mechanical & Electrical Workshop: Repair and Maintenance of retained equipment be done through this workshop which is not included in dismantling scope of work, and it is included in exclusion list at Appendix 05.

12. The items provided in Appendix-05 are included in the exclusions. For avoidance of any doubt, if any items/materials are in common with list provided in Appendix-03, the list provided with Appendix-05 shall prevail.

3.3.6 Employer's Responsibility

The following responsibilities lies with Employer regarding exclusions in the project scope:

- All power & control cables associated with excluded scope of work shall be segregated (dead/live) and isolated from the power plant equipment by Employer prior to dismantling by the Contractor.
- All equipment and associated piping & cabling excluded from the dismantling scope shall be marked onsite by Employer prior to start of dismantling works.

3.3.7 Battery Limits and SLDs

Marked up battery limits and single line diagram for respective lot has been attached as Appendix-01 and Appendix-02 respectively. Additionally, miscellaneous of respective lot is attached in Appendix-04.

4. GENERAL PROJECT REQUIREMENTS

This sub-section outlines the General Project Requirements applicable to the execution of the dismantling works. These requirements aim to ensure that the Contractor executes the works professionally, adhering to international best practices, local regulations, and health, safety, and environmental (HSE) standards.

All activities under the project must be carried out with technical excellence, regulatory compliance, and a commitment to safety, quality, and environmental stewardship.

4.1 Compliance with Standards and Regulations

The Contractor shall comply with the guidelines of all applicable national and international standards specially HSE, emergency management, firefighting etc.

The Contractor shall obtain all necessary permits, if required, from relevant authorities before initiating work.

4.2 Language

English language shall be used in all technical correspondence between the Contractor and the Employer, and whenever anything is required under the terms of the Contract to be written, marked, or printed.

Warning and safety notices, and all permanent or temporary notices around the Plant shall be in English.

4.3 Project Management and Organization

The Contractor shall establish a Project Management Team with a dedicated Project Manager responsible for the overall execution, planning, and coordination of the project.

4.3.1 General Requirements:

The Contractor shall prepare and submit a comprehensive Project Execution Plan (PEP) to the Employer for review and approval before commencing any dismantling activities.

The PEP shall serve as the primary document governing all aspects of the dismantling project, including planning, execution, monitoring, and reporting.

4.3.2 Detailed Scope of Work:

The PEP shall clearly outline the scope of dismantling activities, including the removal of boilers, turbines, generators, piping systems, transformers, control systems, auxiliary equipment etc.

Identification and segregation of hazardous waste.

4.3.3 Methodology and Procedures:

The Contractor at first shall share a list of method statements and procedures for dismantling and disposal of Public Assets which shall be submitted with execution plan to the Employer for

review. After finalization of the list, the Contractor shall furnish the required methodology and procedures within a given timeframe. No work shall be performed before approval of method statements and procedures.

The Contractor shall provide a detailed step-by-step procedures for dismantling, disassembly, and safe removal of components.

The Contractor shall submit specialized methods for handling critical components heavy machinery, and hazardous materials (e.g., asbestos, chemicals, and oils), safety procedures for working in confined spaces and heights.

4.3.4 Resource Planning:

The project execution plan shall include:

- Allocation of labour, equipment, and materials required for dismantling, including cranes, cutting tools, and transportation vehicles.
- Deployment of trained personnel for handling hazardous materials and operating specialized equipment.
- Detailed timeline for resource mobilization and demobilization.

4.3.5 Waste Management Plan:

The waste management plan shall include a minimum of:

- Classification and quantification of waste generated during dismantling (e.g., scrap metal, insulation materials, and hazardous waste).
- Procedures for safe handling, transportation, and disposal of hazardous waste in compliance with environmental regulations.

4.3.6 Health, Safety, and Environmental (HSE) Plan:

The HSE plan shall include a minimum of:

- Identification of potential risks and hazards associated with dismantling activities, along with mitigation measures.
- Emergency response procedures for incidents such as fire, chemical/oil spills, and structural collapses.
- Regular safety drills and training sessions for all on-site personnel.
- Personal protective equipment (PPE) requirements and enforcement.

4.3.7 Interface Management:

Coordination plans for interfacing with existing facilities, utility connections, and neighbouring infrastructure should be included. This shall be specific for each lots and/or units.

Communication protocols to ensure seamless interaction with the Employer and third-party stakeholders.

The Contractor shall appoint site supervisors and specialists for critical activities (e.g., hazardous material handling, critical equipment dismantling, and interface management).

4.3.8 Transport and Logistics Plan:

The transport and logistical plan shall include a minimum of:

- Strategy for the transportation of dismantled components to storage yards, disposal sites, and outside of plant premises.
- Assessment of transport routes, including road and bridge constraints, and arrangements for necessary permits. This specification is specially for inside plant's premises.

4.3.9 Demobilization Plan:

- Steps for site cleanup and restoration to agreed conditions after dismantling is complete.
- Removal of temporary facilities and equipment from the site.
- Handover procedures and documentation to the Employer.

4.4 Permit to Work (PTW) Implementation

4.4.1 General Requirements

The Contractor shall obtain Permit to Work (PTW) from Employer, where ever required, to ensure safe execution of all dismantling activities.

4.4.2 Permit Validity:

All permits shall have a specified validity period and must be renewed or reissued for extended activities.

Permits must be closed upon completion of the work. The Employer shall have the right to cancel any PTWs in case of unsafe conditions and violation of HSE protocols.

4.5 Health, Safety, and Environment (HSE) Requirements

4.5.1 Health and Safety

- The Contractor shall prepare and submit an HSE Management Plan before commencing work.
- Compliance with OSHA standards and NFPA guidelines is mandatory.
- Workers shall be provided with Personal Protective Equipment (PPE), including helmets, gloves, safety goggles, hearing protection, and high-visibility vests etc.
- Daily toolbox talks and safety briefings shall be conducted.
- Emergency response plans, including firefighting measures and evacuation protocols, shall be in place.
- The Contractor shall appoint safety management team and specialists for project execution.

4.5.2 Environmental Protection

- The Contractor shall prepare an Environmental Management Plan (EMP), outlining measures to mitigate environmental risks.
- Waste shall be categorized, segregated, and disposed of in line international and local waste management regulations.
- Proper measures shall be implemented for dust suppression, noise control, and water pollution prevention.
- Hazardous materials, including asbestos, oils, and chemicals, must be handled and disposed of according to international and local regulations.
- Any contamination identified during dismantling must be immediately reported, and remediation measures implemented.

4.6 Technical Documentation and Reporting

The Contractor shall maintain comprehensive technical documentation for all activities, including:

- Method statements for key activities
- Risk assessments and mitigation plans
- Daily site activity logs
- Fortnightly progress reports

- Incident and accident reports
- Maintenance of comprehensive records of dismantled components, hazardous waste disposal, and compliance reports.
- Final Close-out Report: Upon project completion, the Contractor shall submit a final report detailing:
- Summary of activities performed.
- Environmental compliance reports

4.7 Resource Management

- The Contractor shall ensure the availability of qualified personnel with experience in power plant erection / dismantling.
- Adequate resources, including machinery, tools, and equipment, must be mobilized to meet project timelines.
- All equipment used on-site must be certified, well-maintained, and regularly inspected for safety compliance.
- The Contractor shall provide on-site welfare facilities (e.g., potable water, sanitation, medical aid) for all personnel.

4.8 Site Security and Access Control

- The Employer and the Contractor shall jointly ensure secure access control measures at all entry and exit points.
- Unauthorized personnel shall be strictly prohibited from accessing work zones.
- The Contractor shall deploy security personnel to safeguard assets, equipment, and personnel on-site.
- Visitor access must be controlled, and all visitors must adhere to site safety protocols.

4.9 Risk Management

The Contractor shall develop a Project Risk Management Plan identifying risks associated with:

- Structural integrity during dismantling
- Hazardous material exposure
- Environmental contamination
- Delays in execution due to regulatory or logistical issues

- Risk mitigation measures shall be implemented, with regular reviews and updates to the plan.

- An Emergency Response Plan (ERP) shall be developed for scenarios such as fire, chemical spills, and natural disasters.

4.10 Coordination and Communication

- Effective communication channels shall be established between the Contractor, Employer and stakeholders.

- Any deviations, delays, or unforeseen challenges must be communicated to the Employer immediately.

- Weekly coordination meetings shall be held to review progress, resolve issues, and align on upcoming tasks.

4.11 Closure and Handover Requirements

- Ensure removal of all temporary structures, waste, and debris from the site.

- Conduct a joint inspection with the Employer before final handover.

- Obtain Completion Certificate (CC) from the Employer as confirmation of satisfactory project completion.

4.12 Project Scheduling

4.12.1 General

The Contractor will develop a Project Time Schedule or Project Programme. If the same Contractor is for multiple lots, then separate Time Schedule shall be submitted for each lot. The Employer would review this Programme and closely following up on all activities. The Employer would also analyse the schedule, e.g., on room for improvement, criticality of activities, etc. and advise the Contractor accordingly.

It is essential that this Programme to be made available to the Employer allowing to fully interrogate and analyse this schedule.

4.12.2 Schedule Structure and Composition

The Project Schedule shall have a work breakdown structure (WBS). This is required, in order, to categories the activities into different codes that relate them to the Project. The codes shall act, as tags or attributes of each activity to allow the programme to be grouped, summarized, and filtered in or out of the display in soft copy.

The WBS shall have a hierarchal structure to be developed by the Contractor breaking down the Project tasks into definable and recognizable activities of manageable and logical headings.

The Contractor shall ensure that contract schedule has clearly identified all the Project key deliverables and have shown these within the WBS.

The programme shall have a measurable finish point for each group of activities, which is identified and indicated in the schedule by a Milestone event with a designated zero duration.

4.12.3 Periodical update

Periodical update of schedule according to deliverables and visual inspection during supervision activities is a comparison of planned stage and current status of the Project.

- **Programme updates**

The Contract schedule will require updating and status. As a consequence of this process, there is potential for creation of three versions of the contract schedule. These are as following:

- Contract Schedule (baseline);
- Contract Schedule (current);
- Contract Schedule (recovery).

Contract Schedule (baseline) - this shall be the approved contract schedule, as previously stated shall not be changed or altered without approval and it will remain unstated.

Contract Programme (current) - this shall be the same version, as Contract Schedule (baseline) but set up by the Contractor at the end of each month with the same activities' logic links or their original durations as in the Contract Schedule (baseline). The Contractor after each set up the schedule shall carry out time analyse to establish the new position of the programme. An electronic unfiltered copy of this programme shall also be included in the Monthly Report.

Contract Schedule (recovery) - if after time analysis the Contractor find the key contract dates are overrun by more than one calendar month, it shall then make appropriate changes to the logic and resource level of the activities with the negative total float, in order to maintain the original key dates.

This adjusted schedule shall be labelled, as Contract Schedule (recovery). The Contractor shall note all the changes that are made to each activity and log these, describing each change and the reason for it. An electronic unfiltered copy of this recovery schedule including these logs shall also be included in the Monthly Report.

4.12.4 Schedule review

The review of Contractor's schedule in accordance with consistency, time schedule logic and contractual agreed baseline shall be done by the Employer.

4.12.5 Progress report

Contractor's Fortnightly Progress Report shall be based on the Contract schedule. A typical content for Contractor's Report should comprise the following aspects to allow Employer a swift review:

- Progress of Dismantling Activities
- Progress of Interface Activities
- Progress of Removal of Public Assets from respective sites
- Health Safety & Environment
- Hazards

5. Contractor Personnel

The Contractor shall provide the details of following personnel on key positions and their experience record in the form of resume for Employer's review and approval. The Contractor shall have the right to interview each personnel in person or virtual. The personnel on key positions shall only be qualified for the specific Lot after approval from Employer.

i. Project Manager

ii. Project Engineer

iii. Planning Engineer

iv. HSE Engineer

The minimum requirements of the personnel in key positions shall be as follows:

a. Minimum qualification of Project Manager: Bachelor's in Electrical or Mechanical Engineering with minimum 15 years of experience in construction and/or dismantling of thermal power plants or large scale industrial complex.

b. Minimum qualification of Project Engineer: Bachelor's in Engineering with minimum 10 years of relevant experience in construction and/or dismantling of thermal power plants or large scale industrial complex.

c. Minimum qualification of Planning Engineer: Bachelor in Engineering with minimum 10 years of relevant experience.

d. Minimum qualification of HSE Engineer: Bachelor in Engineering with minimum 10 years of relevant experience.

The Contractor shall finalize and get the personnel approved from the Employer within 15 days from the Commencement Date. Failure to comply with these conditions within the time frame could result in Termination of Contract as per Conditions of Contract.

6. APPENDICES

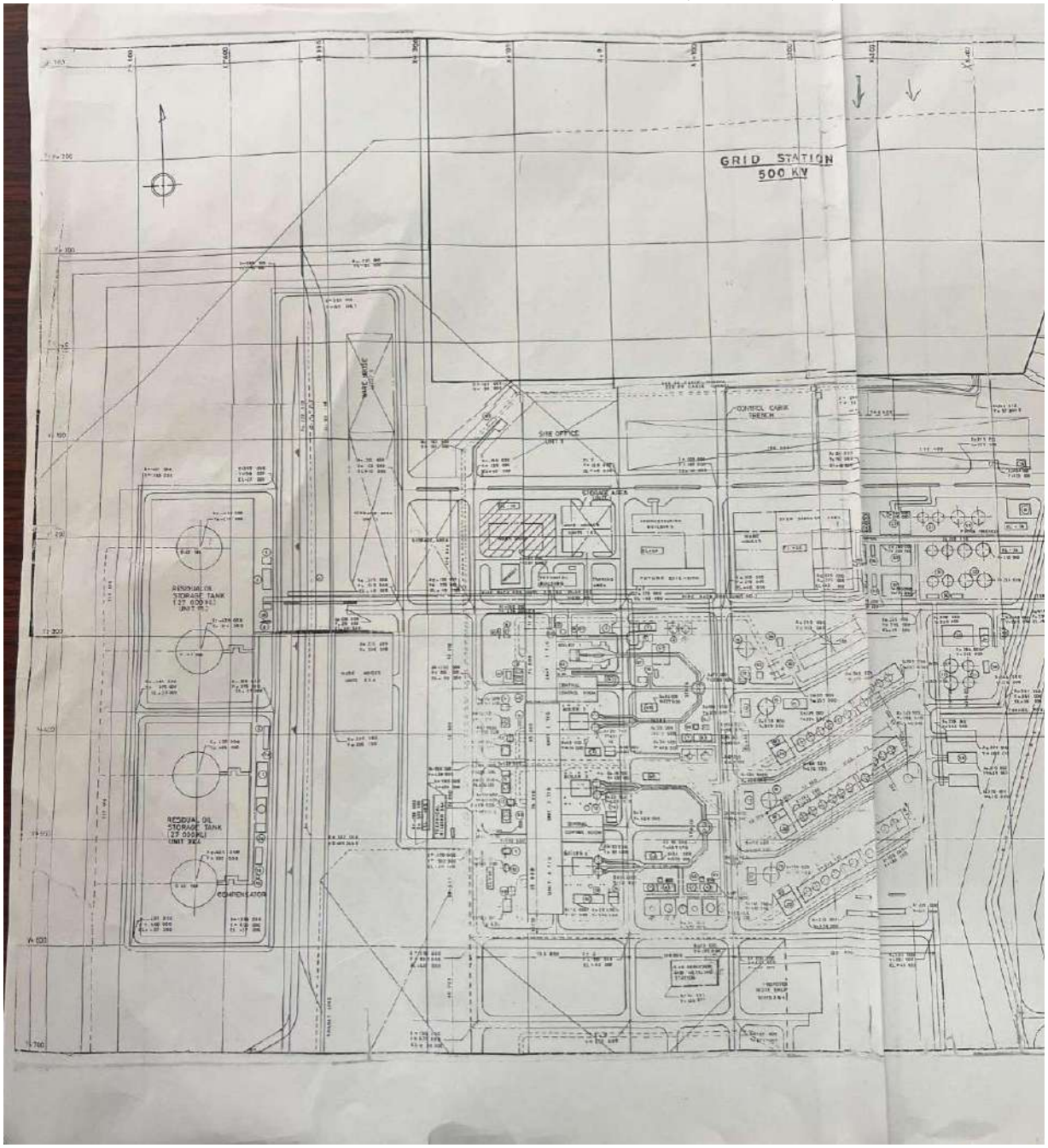
List of appendices of Employer's Requirements are here under:

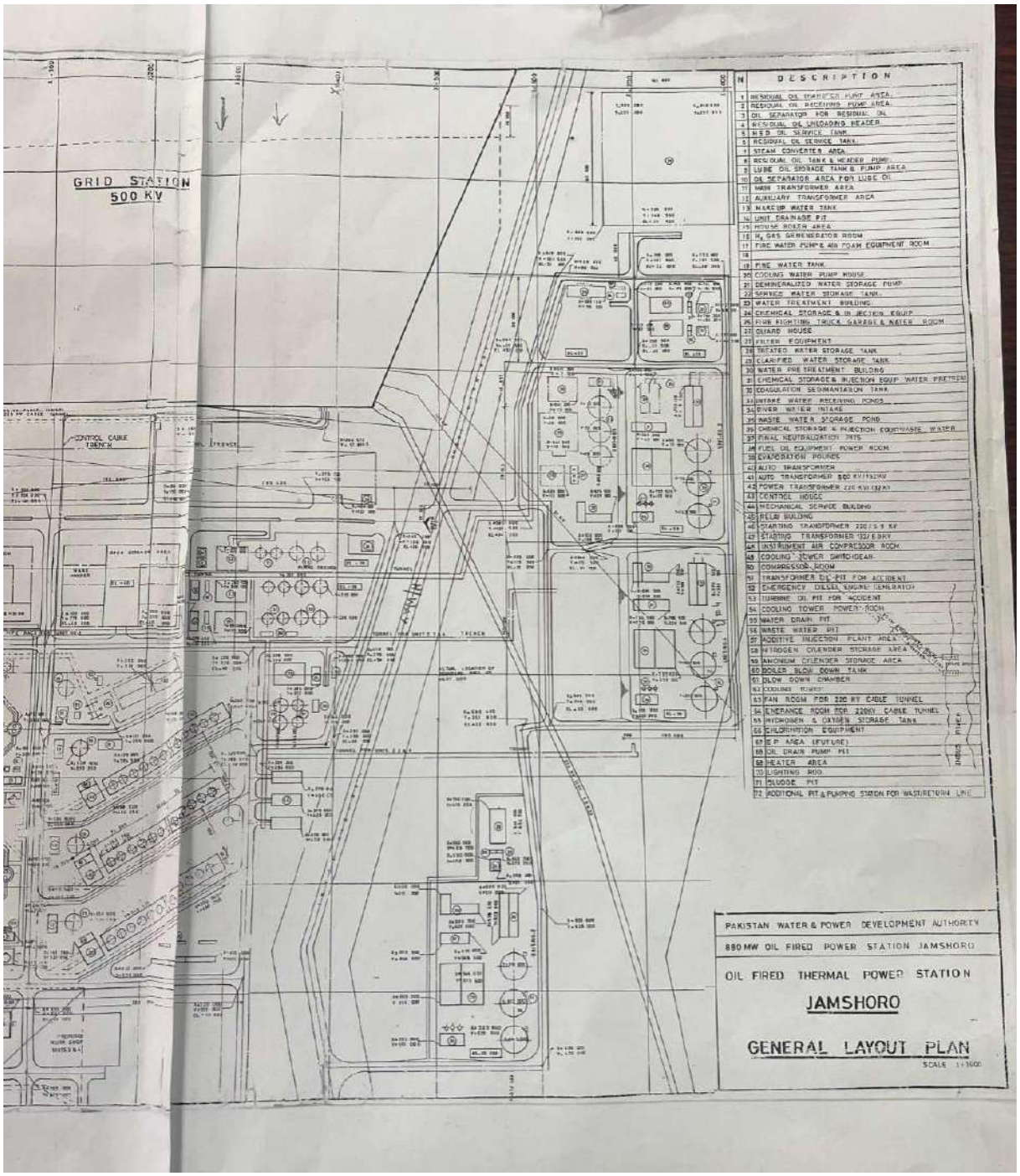
- Appendix-01: General Layout
- Appendix-02: Single Line Diagram (SLD)
- Appendix-03: Store Stock, Spares and Consumables
- Appendix-04: Miscellaneous Data
- Appendix-05: List of Excluded Store Items

APPENDIX – 01:

GENERAL LAYOUT

LOT 1: TPS JAMSHORO (880MW)

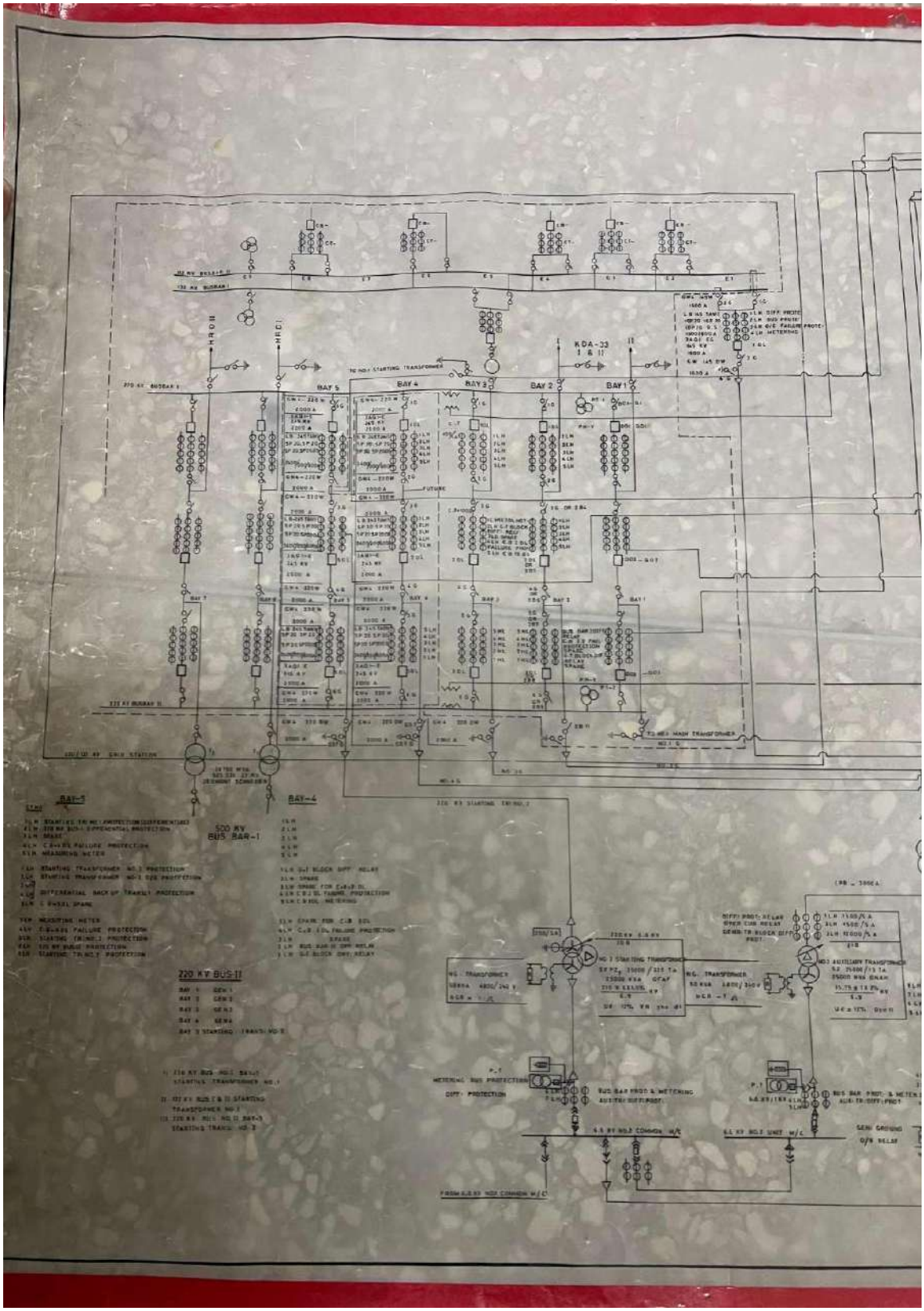


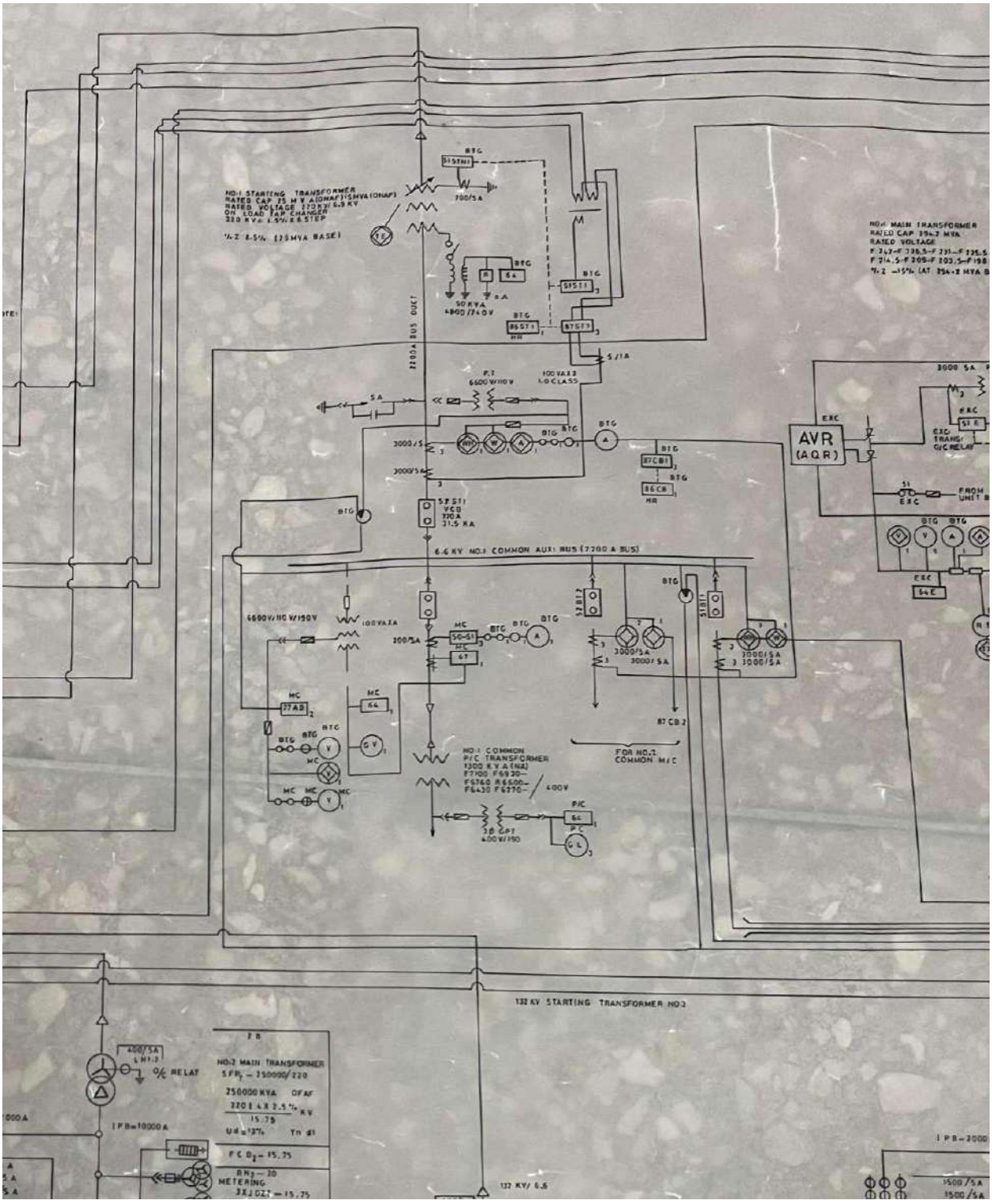

GRID STATION
500 KV
CONTROL CABLE TRENCH
N DESCRIPTION
1 RESIDUAL OIL STARTER PUMP AREA
2 RESIDUAL OIL RECEIVING PUMP AREA
3 OIL SEPARATOR FOR RESIDUAL OIL
4 RESIDUAL OIL UNLOADING HEADER
5 HFO OIL SERVICE TANK
6 RESIDUAL OIL SERVICE TANK
7 STEAM CONVERTER AREA
8 RESIDUAL OIL TANK & HEADER PUMP
9 LUBE OIL STORAGE TANK & PUMP AREA
10 OIL SEPARATOR AREA FOR LUBE OIL
11 MAIN TRANSFORMER AREA
12 AUXILIARY TRANSFORMER AREA
13 MAKE UP WATER TANK
14 UNIT DRAINAGE PIT
15 HOUSE BOATH AREA
16 H2 GAS GENERATOR ROOM
17 FIRE WATER PUMPS AND FOAM EQUIPMENT ROOM
18
19 FIRE WATER TANK
20 COOLING WATER PUMP HOUSE
21 DEMINERALIZED WATER STORAGE PUMP
22 SERVICE WATER STORAGE TANK
23 WATER TREATMENT BUILDING
24 CHEMICAL STORAGE & IN JECTION EQUIP.
25 FIRE FIGHTING TRUCK GARAGE & WATER ROOM
26 GUARD HOUSE
27 FILTER EQUIPMENT
28 TREATED WATER STORAGE TANK
29 CLARIFIED WATER STORAGE TANK
30 WATER PRETREATMENT BUILDING
31 CHEMICAL STORAGE & INJECTION EQUIP. WATER PRETREAT
32 COAGULATION SEDIMANTATION TANK
33 INTAKE WATER RECEIVING POND
34 RIVER WATER INTAKE
35 WASTE WATER STORAGE POND
36 CHEMICAL STORAGE & INJECTION EQUIP WASTE WATER
37 FINAL NEUTRALIZATION PITS
38 FUEL OIL EQUIPMENT POWER ROOM
39 EVAPORATION POUNDS
40 AUTO TRANSFORMER
41 AUTO TRANSFORMER 220 KV/132KV
42 POWER TRANSFORMER 220 KV/13.8KV
43 CONTROL HOUSE
44 MECHANICAL SERVICE BUILDING
45 RELAY BUILDING
46 STARTING TRANSFORMER 220/13.8 KV
47 STARTING TRANSFORMER 132/13.8KV
48 INSTRUMENT AIR COMPRESSOR ROOM
49 COOLING TOWER SWITCHGEAR
50 COMPRESSOR ROOM
51 TRANSFORMER OIL PIT FOR ACCIDENT
52 EMERGENCY DIESEL ENGINE GENERATOR
53 TURBINE OIL PIT FOR ACCIDENT
54 COOLING TOWER POWER ROOM
55 WATER DRAIN PIT
56 WASTE WATER PIT
57 ADDITIVE INJECTION PLANT AREA
58 NITROGEN CYLENDER STORAGE AREA
59 AMONIUM CYLENDER STORAGE AREA
60 BOILER BLOW DOWN TANK
61 BLOW DOWN CHAMBER
62 COOLING TOWER
63 FAN ROOM FOR 220 KV CABLE TUNNEL
64 ENTRANCE ROOM FOR 220KV CABLE TUNNEL
65 HYDROGEN & CATHION STORAGE TANK
66 CHLORINATION EQUIPMENT
67 E P AREA (FUTURE)
68 OIL DRAIN PUMP PIT
69 HEATER AREA
70 LIGHTING ROD
71 SLUDGE PIT
72 ADDITIONAL PIT & PUMPING STATION FOR WASTE RETURN LINE
PAKISTAN WATER & POWER DEVELOPMENT AUTHORITY
880 MW OIL FIRED POWER STATION JAMSHORO
OIL FIRED THERMAL POWER STATION
JAMSHORO
GENERAL LAYOUT PLAN
SCALE 1:1000

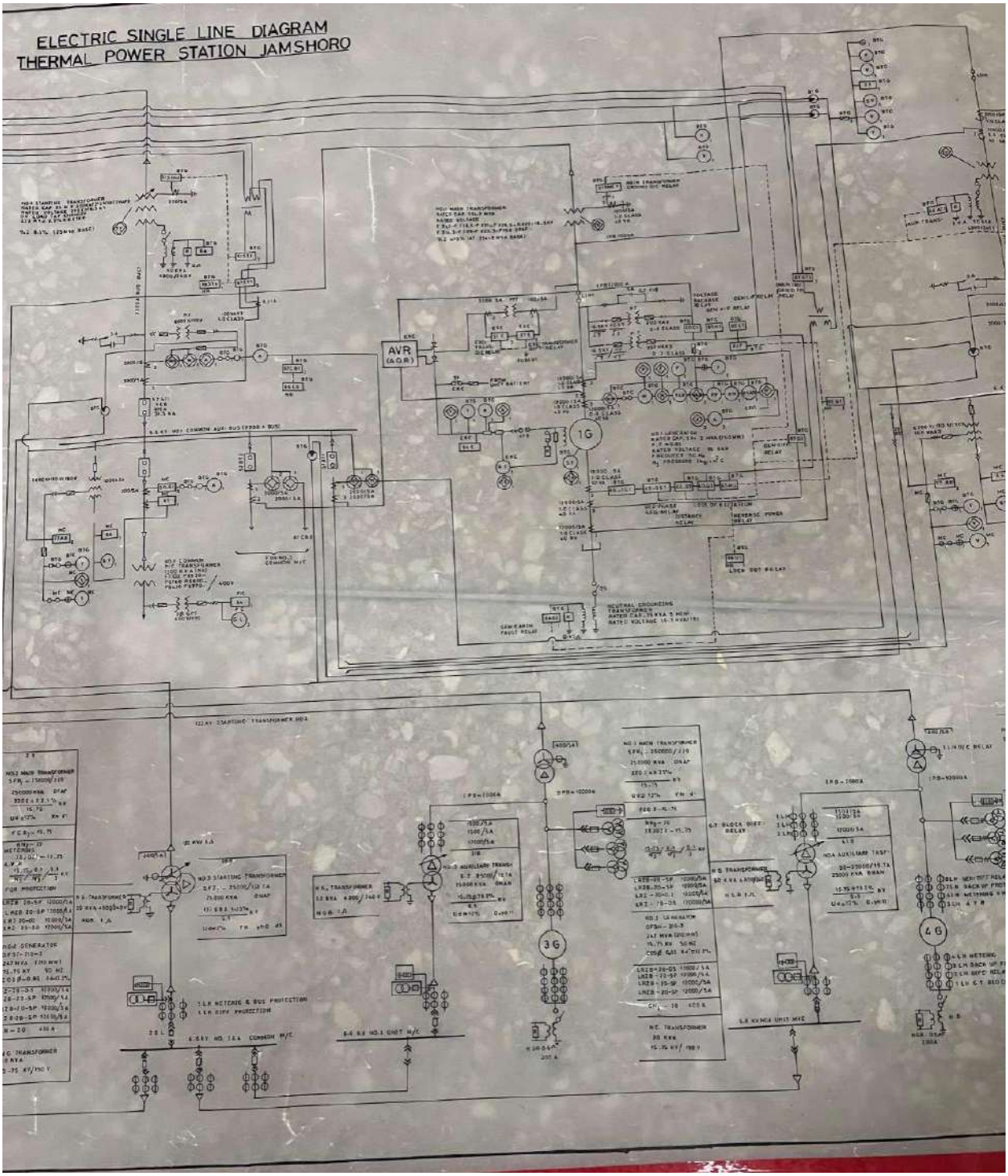
APPENDIX – 02:

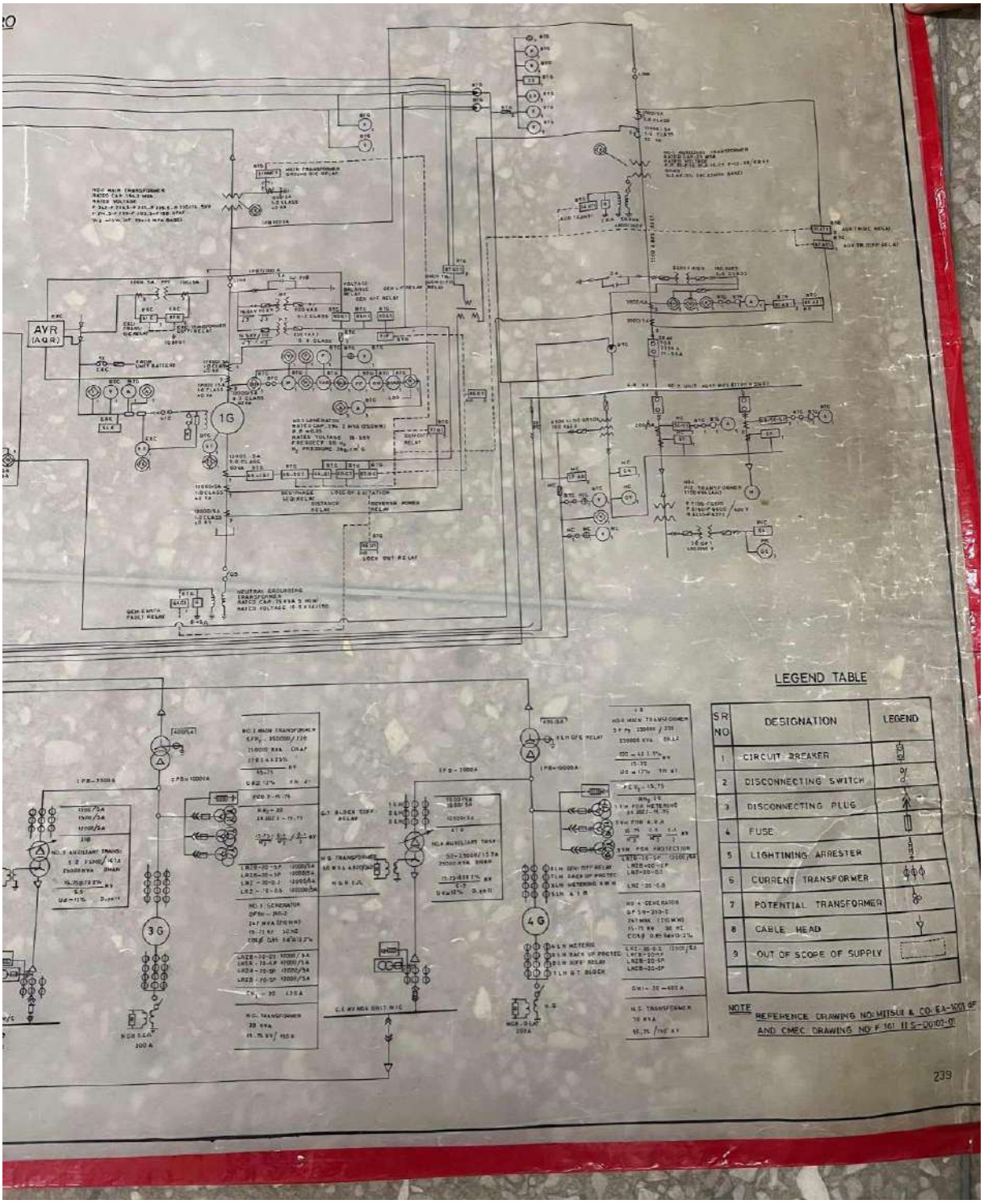
SINGLE LINE DIAGRAMS

LOT 1: TPS JAMSHORO (880MW)




NO.1 STARTING TRANSFORMER
RATED CAP 25 M V A (ONAF)/15MVA (ONAF)
RATED VOLTAGE 132 kV/ 6.9 kV
ON LOAD TAP CHANGER
220 kV ± 15% / 6.6 kV
%Z 8.5% (25MVA BASE)
NO.1 MAIN TRANSFORMER
RATED CAP 294.2 MVA
RATED VOLTAGE
2200A BUS DUCT
50 KVA
4800/240V
6.6 KV NO.1 COMMON AUX. BUS (7200 A BUS)
AVR
(AQR)
EXC
FROM UNIT
NO.1 COMMON P/C TRANSFORMER
1300 K.V.A (NA)
400V
132 KV STARTING TRANSFORMER NO.2
NO.2 MAIN TRANSFORMER
250000 KVA ONAF
220 / 4 X 2.5 % KV
15.75
METERING
132 KV/ 6.6


ELECTRIC SINGLE LINE DIAGRAM
THERMAL POWER STATION JAMSHORO
AVR
(A.O.R)
1G
3G
4G



LEGEND TABLE

SR NO	DESIGNATION	LEGEND
1	CIRCUIT BREAKER	
2	DISCONNECTING SWITCH	
3	DISCONNECTING PLUG	
4	FUSE	
5	LIGHTNING ARRESTER	
6	CURRENT TRANSFORMER	
7	POTENTIAL TRANSFORMER	
8	CABLE HEAD	
9	OUT OF SCOPE OF SUPPLY	

NOTE REFERENCE DRAWING NO: MITSUI & CO. EA-1001 GF AND CMEC DRAWING NO: F 101 11 S-00101-01

APPENDIX – 03:

STORE STOCK, SPARES AND CONSUMABLES

LOT 1: TPS JAMSHORO (880MW)

PHYSICAL STOCK VERIFICATION REPORT OF STORE-I JPCL GENCO-I JAMSHORO

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1	01-1019-0007	Shakle with split pin +"1/4"	Nos.	5	5					
2	01-1019-0012	Eye Bolt (Assorted)	Nos.	78	78					
3	01-1019-0018	Shakle with split pin 2"	Nos.	7	7					
4	01-1019-0023	Shakles with Screw Bolt 2+"	Nos.	10	10					
5	01-1019-0025	Rachet hoist 2T	NOS.	2	2					
6	01-1019-0027	Shakles with Screw Bolt 2"	Nos.	10	10					
7	01-1019-0028	Shakles with Split Pin 1+"	Nos.	8	8					
8	01-1019-0029	Shakles with Split Pin 2"	Nos.	10	10					
9	01-1019-0030	Eye Bolt 2+"	Nos.	10	10					
10	01-1019-0031	Shakles with Screw Bolt1 1/4	Nos.	2	2					
11	01-1019-0032	Shakles with Screw Bolt 1+"	Nos.	1	1					
12	01-1019-0033	Shakles with Screw Bolt 1 3/4"	Nos.	4	4					
13	01-1019-0034	Shakles with Screw Bolt 2+"	Nos.	10	10					
14	01-1019-0035	Shakles with Split Pin 1 3/4"	Nos.	8	8					
15	01-1019-0036	I. Bolts 1 3/4"	Nos.	8	8					
16	01-1019-0037	I. Bolts 2+"	Nos.	10	10					
17	01-1019-0129	Reamer (Assorted)	Nos.	6	6					
18	01-1019-0187	Tool Bit H.S.S.8x8x150	Pcs	49	49					
19	01-1019-0188	Tool Bit H.S.S.10x10x150	Pcs	27	27					
20	01-1019-0190	Tool Bit H.S.S.16x16x150	Pcs	57	57					
21	01-1019-0267	Multi Meter	NOS	1	1					
22	01-1019-0274	Scraper H/R 200mm	NOS	3	3					
23	01-1019-0300	End Mill Culler M-36	Nos.	3	3					
24	01-1019-0330	D Shakle	Nos.	2	2					
25	01-1019-0425	Mechanical Puller (3 Legs) Size- b) 150mm	Nos	2	2					
26	01-1019-0462	Hammering Open end Spanner Flate Type GEDORE Germany Size 32	Nos	1	1					
27	01-1019-0466	Hammering Open end Spanner Flate Type GEDORE Germany Size 50mm	Nos	3	3					
28	01-1019-0467	Hammering Open end Spanner Flate Type GEDORE Germany Size 65mm	Nos	2	2					
29	01-1019-0504	Tool Bit H.S.S.25x25x200	Pcs	75	75					
30	01-1019-0511	Drill Bit 3.0mm	Nos	20	20					
31	01-1019-0515	Drill Chucks b.Size-3/4"	Nos	2	2					
32	01-1019-0575	Hand Taps 4 mm	Set	2	2					
33	01-1019-0576	Hand Taps 5 mm	Set	3	3					
34	01-1019-0582	Gas Welding Torch (Cutting Torch (B.O.C)	Nos	5	5					
35	01-1019-0583	Micro Meter 25/50	Nos	1	1					
36	01-1019-0594	H.S.S Tool Bit v) 20x20x200mm	Nos	106	106					
37	01-1019-0595	End Mill Cutter xi)M-45	Nos	3	3					
38	01-1019-0596	End Mill Cutter xii) M-50	Nos	2	2					
39	01-1019-0598	Machanical Puller (3 Legs) Size a)100mm	Nos	1	1					
40	01-1019-0604	END Mill Cutter Size=X. M-40	Nos	4	4					
41	01-1019-0605	END Mill Cutter Xiii-Size=M60	Nos	3	3					
42	01-1019-0606	Tapper Sleeve A)Size=MT No.1	Nos	6	6					
43	01-1019-0607	Tapper Sleeve B)Size=MT No.2	Nos	2	2					
44	01-1019-0608	Tapper Sleeve C)Size=MT No.3	Nos	4	4					
45	01-1019-0617	H.S.S Parting Tool Size=4x12x150mm	Nos	4	4					
46	01-1019-0618	H.S.S Parting Tool Size=4x16x150mm	Nos	4	4					
47	01-1019-0619	H.S.S Parting Tool Size=8x20x150mm	Nos	4	4					
48	01-1019-0622	Reamer 23/26	Nos	2	2					
49	01-1019-0623	Tube Expender	Nos	1	1					
50	01-1019-0633	Chain Pully Block 10 Ton (3.M) Host	Nos	1	1					
51	01-1019-0636	Hyderlic Jock 5TonEnerpacp-80N (5/8" stroke Rc50)(With Assccerie)	Nos	3	3					
52	01-1019-0637	HyderlicJock10TonEnerpacp-80N(6 1/8" StrokeRc106)(With Assccerie)	Nos	3	3					
53	01-1019-0693	Reamer 25mm	Nos	2	2					
54	02-1003-0095	M.S. Flange Nipple	Nos.	174	174					
55	02-1003-0097	Almunium Nipple Socket 2+" T/W	Nos.	164	164					
56	02-1003-0185	Copper Sheat 1mm	Kg.	12	12					
57	02-1003-0207	Canvas Pipe 2 Inch	Ft	100	100					
58	02-1003-0216	Spiral Wounded Gaskets 150-2	Nos	10	10					

KHALID HUSSAIN
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59	02-1003-0217	Spiral Wounded Gaskets 150-3	Nos	10	10					
60	02-1003-0219	G/for Glangies 300 m.m I.D 235 O.D 308 mm	No.	3	3					
61	02-1003-0256	Wounded G/kit 360x 300 x 5 mm	Nos.	36	36					
62	02-1003-0257	Wounded G/kit 360x 300 x 4 m.m	Nos.	49	49					
63	02-1003-0258	Wounded G/kit 245 x 200 x 4	Nos.	80	80					
64	02-1003-0260	Wounded G/kit 360x 100 x 75 x 3	Nos.	37	37					
65	02-1003-0261	Wounded G/kit 100 x 75 x 4	Nos.	50	50					
66	02-1003-0262	Wounded G/kit 100 x75 x 5	Nos.	50	50					
67	02-1003-0263	Wounded G/kit 110 x 80 x3	Nos.	14	14					
68	02-1003-0264	Wounded G/kit 110 x80 x 4 mm	Nos.	45	45					
69	02-1003-0265	Wounded G/kit 110 x80 x 5	Nos.	25	25					
70	02-1003-0270	Nozzle for Grease Gun	Nos.	7	7					
71	02-1003-0278	S.S. rod 10 x 15 ft	Nos.	10	10					
72	02-1003-0296	G.I. coupling set 8 x 300	Nos.	187	187					
73	02-1003-0308	Copper washer 46 x30 x 4	Nos.	173	173					
74	02-1003-0309	Copper washer 46 x30 x 5	Nos.	174	174					
75	02-1003-0338	Weling rod Cost Iron 2.8 m.m	Kg.	18	18					
76	02-1003-0339	Weling rod C/Iron 3.2 mm 55Kg FOC	Kg.	54	54					
77	02-1003-0340	Weling rod C/Iron 4 mm	Kg.	23	23					
78	02-1003-0342	S/Gaskit 4mm	Nos.	58	58					
79	02-1003-0343	S/Gaskit 6" 3m.m	Nos.	83	83					
80	02-1003-0344	S/Gaskit 8" 3 m.m	Nos.	71	71					
81	02-1003-0348	Rubber coupling pad 60 x 128 x28	Nos.	174	174					
82	02-1003-0379	Rubber coppling pad 126 x 56 x 2	Nos.	8	8					
83	02-1003-0382	C.T makeup water pump 65x7x100	Nos.	53	53					
84	02-1003-0383	Treatment water transfor pump 50x7x78mm	Nos.	97	97					
85	02-1003-0387	Rubber O-ring 75 m.m	Nos.	261	261					
86	02-1003-0388	Rubber O-ring 200 m.m	Nos.	68	68					
87	02-1003-0399	M.S. Rubber Line Pipe dia 1.5 11-08"	Nos.	2	2					
88	02-1003-0401	M,.S. rubber line tee 1.5	Nos.	6	6					
89	02-1003-0402	M.S. rubber reducer 2" x 1+"	Nos.	9	9					
90	02-1003-0404	M.S. rubber line corss 1+"	Nos.	3	3					
91	02-1003-0467	G.I. Elbow 2.5"	Nos.	15	15					
92	02-1003-0468	G.I. Elbow 3"	Nos.	12	12					
93	02-1003-0485	YARWAY COUR POD GAUGE PART NO.29	Nos.	12	12					
94	02-1003-0489	Water Pump	Nos	1	1					
95	02-1003-0491	S.S.Flang	Nos	1	1					
96	02-1003-0492	Phasphate Pump Moter	Nos	1	1					
97	02-1003-0494	Tapping Screw 3.5-22	Pkt	11	11					
98	02-1003-0495	S.S.Bend Strip	Nos	1	1					
99	02-1003-0496	Tac-Card Motor	Nos	1	1					
100	02-1003-0497	A-Tresmechion Fluid 20x2L	Tin	2	2					
101	02-1003-0499	w-rod 6011 2.4mm	Kg.	256	256					
102	02-1003-0500	w-rod Ls-16 3.2mm	Kg.	5	5					
103	02-1003-0501	Gas Welding Rod 700mm	Pkt	4	4					
104	02-1003-0506	White Paint 1kg Tin	Nos	8	8					
105	02-1003-0507	Soldring Wire	Roll	4	4					
106	02-1003-0509	Connecter Assorteg	Nos	50	50					
107	02-1003-0510	Nozzle Dead	Nos	30	30					
108	02-1003-0511	Nozzle Dead	Nos	20	20					
109	02-1003-0512	Coper Ring	Nos	8	8					
110	02-1003-0513	Having Nozzle	Nos	12	12					
111	02-1003-0514	Pars Nozzle	Nos	8	8					
112	02-1003-0515	Nozzle	Nos	50	50					
113	02-1003-0516	Droper Battery	Nos	1	1					
114	02-1003-0517	Tube Bender	Nos	1	1					
115	02-1003-0518	Contact Frame	Nos	2	2					
116	02-1003-0520	Main Push Button Switch	Nos	3	3					
117	02-1003-0521	Contact ZBZ	Nos	2	2					
118	02-1003-0522	Pin E20m-009	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
119	02-1003-0523	Pin E80m-010	Nos	2	2					
120	02-1003-0524	Pin E0ZR-017	Nos	2	2					
121	02-1003-0525	Pin D16m-004	Nos	1	1					
122	02-1003-0526	Contact ZB2-Be-102	Nos	2	2					
123	02-1003-0527	Viberation Pickup	Nos	2	2					
124	02-1003-0528	Screw P-Nut	Nos	100	100					
125	02-1003-0533	Almunium Paint	Tin	1	1					
126	02-1003-0536	Tube Rolling Controller TR-24	Nos	2	2					
127	02-1003-0537	Tube Rolling Controller TR-5062	Nos	1	1					
128	02-1003-0538	Welldind Rod Canaro	Kg.	15	15					
129	02-1003-0539	Welldind Rod CMA-76 2.6	Kg.	8	8					
130	02-1003-0544	Filter Fl-3392	Nos	1	1					
131	02-1003-0546	Filter Cartridge 86-455-7161	Nos	6	6					
132	02-1003-0547	Osugraph Paper	Nos	1	1					
133	02-1003-0548	seale	Nos	1	1					
134	02-1003-0551	Earthing Strip	Roll	1	1					
135	02-1003-0552	Spray Ms-5-100-50HZ	Nos	1	1					
136	02-1003-0553	Plug WF-7430-30A	Nos	8	8					
137	02-1003-0554	Oil Filter 37540-01200	Nos	4	4					
138	02-1003-0557	ORT GasKit	Nos	1	1					
139	02-1003-0562	Welding Control Gauge	Nos	3	3					
140	02-1003-0563	ORN-Gon Chain	Nos	4	4					
141	02-1003-0566	Stainer Set Bolt	Nos	2	2					
142	02-1003-0567	Oil Seal 75-10-100	Nos	6	6					
143	02-1003-0568	Chart Paper 12203	Nos	15	15					
144	02-1003-0569	Folding Chart Paper114-1-107	Nos	4	4					
145	02-1003-0570	Ring 4N4-VS Ople	Nos	1	1					
146	02-1003-0571	Stud Bolt	Nos	10	10					
147	02-1003-0572	Skirt To Grid Nut	Nos	40	40					
148	02-1003-0573	Steel Terminal Nut	Nos	6	6					
149	02-1003-0577	Covertank Nut	Nos	30	30					
150	02-1003-0579	Terminal Washer	Nos	6	6					
151	02-1003-0580	Steel Terminal Washer	Nos	2	2					
152	02-1003-0581	Skrit To Gri Nut	Nos	40	40					
153	02-1003-0582	Brush Holder	Nos	1	1					
154	02-1003-0583	Reflecter	Nos	3	3					
155	02-1003-0587	Steel Washer	Nos	12	12					
156	02-1003-0588	Lock Strip	Nos	4	4					
157	02-1003-0589	Rusher Nozzle	Nos	3	3					
158	02-1003-0591	Union S25 CLS	Nos	2	2					
159	02-1003-0597	Washer M12	Nos	20	20					
160	02-1003-0598	Washer M8	Nos	20	20					
161	02-1003-0601	OH-Bond	Nos	3	3					
162	02-1003-0603	Oil Seal110-140-12	Nos	4	4					
163	02-1003-0604	Weight seale	Nos	2	2					
164	02-1003-0605	Chain	Nos	1	1					
165	02-1003-0607	Micsax-F	Nos	2	2					
166	02-1003-0608	Copper Packing 2mm	Nos	165	165					
167	02-1003-0610	Hose Pipe 2Inch	Nos	8	8					
168	02-1003-0615	Lead Sheet	Pcs	1	1					
169	02-1003-0616	Nozzle Valve	Nos	2	2					
170	02-1003-0630	Fan Belt-4496	Nos	9	9					
171	02-1003-0636	CARBON STEEL SHAFT 90 X 4000 M.M	Nos.	1	1					
172	02-1003-0640	Star Coupling Pads Size-125x57mm(with 06Nos PEl)	Nos	18	18					
173	02-1003-0644	STAINLESS STEEL TEE 67 M.M	Nos.	21	21					
174	02-1003-0672	Sealing Glue	Nos.	6	6					
175	02-1003-0676	PUMP WITH MOTOR HDA 3.5/200 1400	Nos.	1	1					
176	02-1003-0677	MOTOR SIWOCH V400AMP 1450RPM	Nos.	1	1					
177	02-1003-0687	Copper Bar Round 75MM	Kg.	69	69					
178	02-1003-0688	Copper Bar Round 85MM	Kg.	68	68					

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1	2	3	4	5	6	7	8	10	11	12
179	02-1003-0689	Copper Bar Round 100MM	Kg.	163	163					
180	02-1003-0694	Bross Bar (Hexagonal)12MM	Kg.	48	48					
181	02-1003-0702	Fiber Rod (Round) 21MM	Kg.	14	14					
182	02-1003-0703	Fiber Rod (Round) 25MM	Kg.	10	10					
183	02-1003-0705	Fiber Rod (Round) 35MM	Kg.	9	9					
184	02-1003-0706	Fiber Rod (Round) 45MM	Kg.	2 .5	2 .5					
185	02-1003-0707	Fiber Rod (Round) 50MM	Kg.	20	20					
186	02-1003-0711	Copper Sheet 3.0MM	Kg.	34	34					
187	02-1003-0729	Miled Steel Bar (Squire) 18MM	Kg.	37	37					
188	02-1003-0737	Copper Bar Round 12MM	Kg.	88	88					
189	02-1003-0738	Copper Bar Round 16MM	Kg.	63 .5	63 .5					
190	02-1003-0762	Brass Bar Round 08MM	Kg.	46	46					
191	02-1003-0763	Brass Bar Round 10MM	Kg.	41	41					
192	02-1003-0764	Brass Bar Round 12MM	Kg.	30	30					
193	02-1003-0774	Fiber Sheet 1.0MM	Kg.	17	17					
194	02-1003-0779	Fiber Sheet 12.0MM	Kg.	25	25					
195	02-1003-0781	Fiber Sheet 18.0MM	Kg.	25	25					
196	02-1003-0782	Fiber Sheet 21.0MM	Kg.	16	16					
197	02-1003-0783	Fiber Sheet 25.0MM	Kg.	11	11					
198	02-1003-0799	P-Seat Packing	Nos	2	2					
199	02-1003-0803	Packing Ring Graphite	Nos	2	2					
200	02-1003-0804	Gaskit NR100-100	Nos	10	10					
201	02-1003-0805	Packing Ring	Nos	8	8					
202	02-1003-0812	Check valve size 273mm	Nos	4	4					
203	02-1003-0813	Copper Tube 1/8	Mtr	196	196					
204	02-1003-0847	IMPLLER Size- 0.D209MMCOL 98MM(For Filter Transfer Pump)	Nos.	4	4					
205	02-1003-0853	GRAPHITE BUSH FOR PIPE65X110X7.5	Nos.	30	30					
206	02-1003-0855	IMPELLER (S/RUBBER)WITH CONNECTING (S.S.ROD)	Nos.	15	15					
207	02-1003-0865	SPIRAL WOUND GASKET 6X76X4.5MM	Nos.	15	15					
208	02-1003-0868	METALIC GROVED GASKET 70X95X2.5	Nos.	10	10					
209	02-1003-0869	V-BELT B-41	Nos.	44	44					
210	02-1003-0884	Plastic Tape	Nos	22	22					
211	02-1003-0886	Sefty Helmet	Nos	13	13					
212	02-1003-0890	Heater For Turbine Bolt	Nos	10	10					
213	02-1003-0896	MECH SEAL CHILLED WATER PUMP28MM	Set.	1	1					
214	02-1003-0897	MECH SEAL CHILLED PUMP 45MM	Set.	1	1					
215	02-1003-0900	MECH SEAL HEAT D/P UMP 45MM	Nos.	1	1					
216	02-1003-0911	RUBBER LINE PIPE WALL 110X1620MM	Nos.	2	2					
217	02-1003-0913	RUBBER LINE PIPE WALL 70X200	Nos.	3	3					
218	02-1003-0914	RUBBER LINED P/WITH FLANGE70X410	Nos.	2	2					
219	02-1003-0915	RUBBER LINED P/WITH FLANGE70X290	Nos.	2	2					
220	02-1003-0916	DISMOUNTING FLUID LHDF-900/5	Nos.	4	4					
221	02-1003-0935	BROSS SHEET SIZE THICKNS 0.5MM	Kg.	6	6					
222	02-1003-0936	BROSS SHEET SIZE THICKNS 1.0MM	Kg.	3	3					
223	02-1003-0946	Welding Wire Rods 2.4x1000mm	Kg.	3	3					
224	02-1003-0948	Welding Electron B-14 4.0x450 NT-12 4.0mm	Kg.	15	15					
225	02-1003-0955	Electrod CMA-76=4.0x400mm	Kg.	5	5					
226	02-1003-0959	Welding Wire Rod 3.2	Kg.	15	15					
227	02-1003-0960	Welding Wire Rod 2.4mm x1000mm	Kg.	5	5					
228	02-1003-0961	Pvc Welding Rod 3mm	Kg.	8	8					
229	02-1003-0962	Welding Electro CMB.95/2-6x300	Kg.	54	54					
230	02-1003-0963	ELECTRO ROD GOUGHING CARBONS100N	Nos.	463	463					
231	02-1003-0965	Tharmostate Heat Proof CH Wire	Nos.	21	21					
232	02-1003-0979	Clam C.I.G Blod 8m	Nos	27	27					
233	02-1003-0980	Heating Nozzle	Nos	20	20					
234	02-1003-0981	Copper Wire 8 SWG	Kg.	20	20					
235	02-1003-0982	R/LINED PIPE WITH FLG:70 x 630M	Nos.	1	1					
236	02-1003-0983	R/LINED PIPE WITH FLG:70 x 650M	Nos.	1	1					
237	02-1003-0987	R/LINED PIPE WITH FLG:70 x 1910M	Nos.	2	2					
238	02-1003-0990	R/LINED PIPE WITH FLG:70 x 1990M	Nos.	2	2					

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1	2	3	4	5	6	7	8	10	11	12
239	02-1003-0991	R/LINED PIPE WITH FLG:70 x 2030M	Nos.	3	3					
240	02-1003-0994	R/LINED PIPE WITH FLG:70 x 2230M	Nos.	4	4					
241	02-1003-0995	R/LINED PIPE WITH FLG:70 x 2250M	Nos.	4	4					
242	02-1003-1012	R/LINE PIPE W/FLANGE 70 x 1090	Nos.	3	3					
243	02-1003-1013	R/LINE PIPE W/FLANGE 70 x 1160	Nos.	7	7					
244	02-1003-1014	R/LINE PIPE W/FLANGE 70 x 1200	Nos.	5	5					
245	02-1003-1015	R/LINE PIPE W/FLANGE 70 x 1830	Nos.	6	6					
246	02-1003-1018	PVC NOZZLE FLANGE0.0.200MMID40MM	Nos.	3	3					
247	02-1003-1019	ACID SOLUTION INJUCTION (NAOH)	Nos.	2	2					
248	02-1003-1028	W/ELECTROD HARD MC160H SIZE2.8MM	Kg.	8	8					
249	02-1003-1044	MS R/LINE PIPE W/F WALL70X1480MM	Nos.	2	2					
250	02-1003-1045	MS R/LINE PIPE W/F WALL70X1490MM	Nos.	4	4					
251	02-1003-1046	MS R/LINE PIPE W/F WALL70X1550MM	Nos.	6	6					
252	02-1003-1047	MS R/LINE PIPE W/F WALL70X1600MM	Nos.	4	4					
253	02-1003-1052	OIL SEAL RUBBER110X85X12MM	Nos.	50	50					
254	02-1003-1082	Boiler Drum Level Gauge Clan Model TC-MHE 250-7HA	Nos	75	75					
255	02-1003-1084	COST IRON CAP WITH CHAINED	Nos.	75	75					
256	02-1003-1088	Motor Oil	Ltr	11	11					
257	02-1003-1126	BALL VALVE(Hydrogine Pump)	Nos.	5	5					
258	02-1003-1127	Check valve /Non Return Valve	Nos	9	9					
259	02-1003-1128	SAFETY VALVE(Hydroine Pump)	Nos.	9	9					
260	02-1003-1129	CRANK(Hydrogine Pump)	Nos.	3	3					
261	02-1003-1130	PISTON(Hydrogine Pump)	Nos.	2	2					
262	02-1003-1131	PLUNGER(Hydrogine Pump)	Nos.	3	3					
263	02-1003-1135	Check valve /Non Return Valve	Nos	9	9					
264	02-1003-1136	SAFETY VALVE(A.D.Pump)	Nos.	9	9					
265	02-1003-1137	CRANK(A.D.Pump)	Nos.	3	3					
266	02-1003-1138	PISTON(A.D.Pump)	Nos.	3	3					
267	02-1003-1139	PLUNGER(A.D.Pump)	Nos.	3	3					
268	02-1003-1143	SAFETY VALVE(Phosphate Pump)	Nos.	9	9					
269	02-1003-1144	CRANK(Phosphate Pump)	Nos.	3	3					
270	02-1003-1145	PISTON(Phosphate Pump)	Nos.	3	3					
271	02-1003-1146	PLUNGER(Phosphate Pump)	Nos.	3	3					
272	02-1003-1156	NOZZLE VG 7237-79 FOR MIXED	Nos.	400	400					
273	02-1003-1163	M.S STRIP SIZE 500x25x2MM	Kg.	342	342					
274	02-1003-1169	STEAM VALVE/GLOBE TEMP600C 150KSize-25mm	Nos.	3	3					
275	02-1003-1170	PNEUMATIC OPERATED R/L DIAPHRM25	Nos.	6	6					
276	02-1003-1175	PNEUMATIC NORMALLY OPEN 50 mm	Nos.	2	2					
277	02-1003-1182	AIR PREHEATER OUTLET AIR DANPER	Nos.	1	1					
278	02-1003-1184	Mechanical Seal 40mm	Nos	4	4					
279	02-1003-1186	MECHANICAL SEAL 60MM	Nos.	3	3					
280	02-1003-1199	M.S Flange 25mm 12 Hole 10"	Nos	20	20					
281	02-1003-1204	M.S Flang Blind 25mm 4 Hole 10"	Nos	39	39					
282	02-1003-1206	M.S Flang Blind Thick 25mm 12 Hole 10"	Nos	19	19					
283	02-1003-1207	Wire Rope Host Cap 800Kg.W/O Rope	Nos	2	2					
284	02-1003-1211	M.S Flange 273mm 16 Hole	Nos	6	6					
285	02-1003-1217	Stainer	Nos	8	8					
286	02-1003-1220	Tee Weld Typr (M.S)	Nos	21	21					
287	02-1003-1221	Reducer 10x6	Nos	25	25					
288	02-1003-1222	Reducer 8x4	Nos	21	21					
289	02-1003-1223	Reducer 8x6	Nos	5	5					
290	02-1003-1224	G.I Tub	Nos	7	7					
291	02-1003-1226	G.I Planks	Nos	76	76					
292	02-1003-1228	Rubber Hose Pipe 3'x5'	Nos	271	271					
293	02-1003-1229	Rubber Hose Pipe 36x10'/3.5	Nos	248	248					
294	02-1006-0003	R. B. 2007117 NTN. 32017X8KF	Nos.	9	9					
295	02-1006-0004	Ball Bearing 6019	Nos.	9	9					
296	02-1006-0010	R.B DE 168759 MR5 - 11/2	Nos.	1	1					
297	02-1006-0011	Ball Bearing NOE M5 1.8/8	Nos.	1	1					
298	02-1006-0012	Ball Bearing 1688647 (RMS - 14)	Nos.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
299	02-1006-0013	Ball Bearin 11562 (T - 201)	Nos.	3	3					
300	02-1006-0014	R.B CRM-14	Nos.	1	1					
301	02-1006-0015	R-Bearing CRM-16	Nos.	1	1					
302	02-1006-0016	Bearing Tink SKF 752-AK-759	Nos.	2	2					
303	02-1006-0017	Roller Bearing Nu-314 EOJ/C3 SKF	Nos.	2	2					
304	02-1006-0019	R.B 50 mm	Nos.	2	2					
305	02-1006-0020	R.B Au 665-652 - 11564	Nos.	1	1					
306	02-1006-0021	R.B Ams 15/16	Nos.	4	4					
307	02-1006-0022	R.B 71450- 71750	Nos.	2	2					
308	02-1006-0023	Bearing Assi 7855-cap 987255	Nos.	1	1					
309	02-1006-0024	Top R.B 64450k 67700	Nos.	2	2					
310	02-1006-0025	Top R.B 861-854 Tinker	Nos.	1	1					
311	02-1006-0026	Top R.B RMS-18 Tinker 854-861	Nos.	1	1					
312	02-1006-0027	R.B K. 643-632 Als 2851	Nos.	2	2					
313	02-1006-0028	Bearing MS.20	Nos.	3	3					
314	02-1006-0029	Thurst Bearing 102346-MTT 15/18	Nos.	1	1					
315	02-1006-0030	Bearing RM.97 (MRJ 2 1/4	Nos.	1	1					
316	02-1006-0031	Bearing MR5 1.3/8 46-97 R&M	Nos.	2	2					
317	02-1006-0032	Bearing 102267 Acm 17/8	Nos.	2	2					
318	02-1006-0033	Bearing 135497 Rms - 60	Nos.	1	1					
319	02-1006-0034	Bearing 156574 MRS 1 3/4	Nos.	1	1					
320	02-1006-0035	R.B 304	Nos.	10	10					
321	02-1006-0036	Bearing Nx-410	Nos.	3	3					
322	02-1006-0037	Bearing RLS-11	Nos.	4	4					
323	02-1006-0038	Ball Bearing Rms-9	Nos.	6	6					
324	02-1006-0039	Ball Bearing Rls-10	Nos.	3	3					
325	02-1006-0040	R.B 2318-K	Nos.	1	1					
326	02-1006-0044	Ball Bearing 1575	Nos.	3	3					
327	02-1006-0045	Ball Bearing X-314	Nos.	1	1					
328	02-1006-0046	Ball Bearing X.304	Nos.	4	4					
329	02-1006-0047	Ball Bearing No-207 Klc3	Nos.	1	1					
330	02-1006-0048	Ball Bearing MRJ-50	Nos.	2	2					
331	02-1006-0049	Ball Bearing N-207	Nos.	4	4					
332	02-1006-0050	Ball Bearing MMRJ 80	Nos.	2	2					
333	02-1006-0051	Ball Bearing 22217-222C	Nos.	6	6					
334	02-1006-0052	Ball Bearing Ls13	Nos.	5	5					
335	02-1006-0053	T.R. Bearing 18520 Tinker	Nos.	3	3					
336	02-1006-0054	T.R. Bearing K.643- 632	Nos.	1	1					
337	02-1006-0055	Bearing LS=11	Nos.	2	2					
338	02-1006-0056	Bearing R355 vm	Nos.	1	1					
339	02-1006-0057	Bearing Rms-11	Nos.	15	15					
340	02-1006-0058	Bearing Rls-14	Nos.	11	11					
341	02-1006-0059	Bearing N-310	Nos.	5	5					
342	02-1006-0060	Bearing 9185-9121	Nos.	10	10					
343	02-1006-0061	Bearing 592/595	Nos.	12	12					
344	02-1006-0062	T. Bearing Rms-34	Nos.	1	1					
345	02-1006-0063	T. Bearing MS 21 1/2	Nos.	3	3					
346	02-1006-0064	T. Bearing Rms 21 1/2	Nos.	3	3					
347	02-1006-0065	T. Bearing CRL-40	Nos.	2	2					
348	02-1006-0067	T. Bearing No-322	Nos.	6	6					
349	02-1006-0069	B. Bearing Rls-28	Nos.	1	1					
350	02-1006-0070	R.B CRL-28.A	Nos.	1	1					
351	02-1006-0071	Bearing X-313	Nos.	7	7					
352	02-1006-0072	Bearing 1314	Nos.	15	15					
353	02-1006-0073	D.R.B 1200	Nos.	1	1					
354	02-1006-0074	T.B. 43-34 1/2 Rm	Nos.	2	2					
355	02-1006-0076	R.B. No.1204	Nos.	1	1					
356	02-1006-0077	Bearing Small 80010 EL8-2Z	Nos.	10	10					
357	02-1006-0080	Bearing 78215-78549-D	Nos.	9	9					
358	02-1006-0081	R.B CRL-20	Nos.	2	2					

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1	2	3	4	5	6	7	8	10	11	12
359	02-1006-0082	Bearing Rls-20	Nos.	2	2					
360	02-1006-0083	Bearing CRM-9A	Nos.	4	4					
361	02-1006-0084	R.B MJ 2 1/2 Rxm	Nos.	4	4					
362	02-1006-0085	R.B N-316	Nos.	1	1					
363	02-1006-0086	R.B CRm-12	Nos.	1	1					
364	02-1006-0087	Ball Bearing 2202	Nos.	9	9					
365	02-1006-0088	Ball Bearing 1203	Nos.	9	9					
366	02-1006-0089	R.B 22615-221315-K+1H 2315	Nos.	6	6					
367	02-1006-0091	R.B CRM-26 MS	Nos.	4	4					
368	02-1006-0093	Ball Bearing RM-26	Nos.	4	4					
369	02-1006-0094	S.Row B.B RMS-34	Nos.	2	2					
370	02-1006-0096	S.Roe RMS-36	Nos.	3	3					
371	02-1006-0097	Ball Bearing 6200zz Make FAG	Nos	54	54					
372	02-1006-0098	R.B N-308	Nos.	2	2					
373	02-1006-0099	B.B RMS-24	Nos.	2	2					
374	02-1006-0100	R.B CRM-22	Nos.	5	5					
375	02-1006-0101	Cylinderical R.B CRL-11	Nos.	2	2					
376	02-1006-0102	Cylinderical -DO- ME-309	Nos.	3	3					
377	02-1006-0104	D. Row 22212CC (R.B # 22212 cc)	Nos.	6	6					
378	02-1006-0105	R.B 32212	Nos.	12	12					
379	02-1006-0106	Ball Bearing 6200	Nos.	4	4					
380	02-1006-0109	R.Bearing N-218	Nos.	2	2					
381	02-1006-0110	Ball Bearing 6201	Nos.	93	93					
382	02-1006-0111	T.R.B 3812-J2	Nos.	2	2					
383	02-1006-0112	B.B 6002	Nos.	4	4					
384	02-1006-0113	Ball Bearing RMS-20 CM5 2 1/2	Nos.	1	1					
385	02-1006-0114	Ball Bearing 6001	Nos.	5	5					
386	02-1006-0117	Ball Bearing 1.3/8 / LS12 1/2 V	Nos.	1	1					
387	02-1006-0119	Ball Bearing Corl-15A	Nos.	2	2					
388	02-1006-0120	Ball Bearing N-307	Nos.	1	1					
389	02-1006-0122	Ball Bearing RMS-13	Nos.	3	3					
390	02-1006-0128	Ball Bearing 2309 ETM9	Nos.	1	1					
391	02-1006-0129	Cy-DO- N-308 ECP (Roller Bearing)	Nos.	12	12					
392	02-1006-0133	Angular Contact Ball Bearing 7307 BEP Fag(Polya mide cage)	Pcs	6	6					
393	02-1006-0136	Self Aligring B.B 2309E	Nos.	4	4					
394	02-1006-0137	Slierical R.B 22313E SKF	Nos.	5	5					
395	02-1006-0139	Ball Bearing 4610/7005-CD\P4U(GP246105	Nos	3	3					
396	02-1006-0143	B.B 32320 JZ (7620)	Nos.	6	6					
397	02-1006-0149	B.B 2308 ETN9 (2308)	Nos.	20	20					
398	02-1006-0150	Ball Bearing 6220 Make FAG	Nos	1	1					
399	02-1006-0157	B.B SKF 30226 J2	Nos.	4	4					
400	02-1006-0161	B.B SKF 6019	Nos.	2	2					
401	02-1006-0162	B.B 32030X(2007130)	Nos.	4	4					
402	02-1006-0163	B.B 7528 (3228)	Nos.	1	1					
403	02-1006-0170	T.R.B 2007134 Eq:32034x	Nos.	3	3					
404	02-1006-0171	R.B.B. 53613 Eq: 22313C&W33	Nos.	14	14					
405	02-1006-0177	Sp: R.B. 3624 FAG(40x23x20mm)	Nos.	6	6					
406	02-1006-0180	Ball Bearing 7312 B.B 46312 89VP	Nos.	2	2					
407	02-1006-0181	Ball Bearing 6310 ZZR Make FAG	Nos	8	8					
408	02-1006-0184	R.B 8205/6205/51205 FAG	Nos.	8	8					
409	02-1006-0185	R.B B.TAM 3516WX=22216ES FAG	Nos.	15	15					
410	02-1006-0186	Tb:B.B ZKL 51115	Nos.	24	24					
411	02-1006-0187	Sp:R.B 22313 ES	Nos.	16	16					
412	02-1006-0188	R.B 22212 ES	Nos.	6	6					
413	02-1006-0189	Tb: B.B 61208=8208	Nos.	12	12					
414	02-1006-0199	T: R.B 32316 JZ SKF	Nos.	7	7					
415	02-1006-0200	Cyl:Roller Bearing N.314 ECP SKF	Nos.	4	4					
416	02-1006-0201	Taper R.B 30305 JZ SKF	Nos.	24	24					
417	02-1006-0203	Taper R.B 32228 JZ	Nos.	11	11					
418	02-1006-0204	Taper R.B 30203 JZ	Nos.	2	2					

KHALID HUSSAIN
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/ STOCK VERIFIER .

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1	2	3	4	5	6	7	8	10	11	12
419	02-1006-0205	Cy: R.B No.212 ECP SKF	Nos.	15	15					
420	02-1006-0209	Tap: R.B (30317D)FAG	Nos.	12	12					
421	02-1006-0210	Sperical Roller Bearing No.22318E1 FAG	Nos	4	4					
422	02-1006-0212	R. Bearing NJ408	Nos.	12	12					
423	02-1006-0213	Sp: Roller B: 23230C\23230E CASM	Nos.	8	8					
424	02-1006-0214	Tap: R. B. 82228 J2 SKF	Nos.	5	5					
425	02-1006-0215	Bearing 6208 RSR FAG	Nos.	3	3					
426	02-1006-0220	Bearing 6210 NTN	Nos.	8	8					
427	02-1006-0224	valve Bearing 218E/TVP2	Nos	32	32					
428	02-1006-0232	Bearing 6314 NTN	Nos.	4	4					
429	02-1006-0235	Ball Bearing 6213	Nos	45	45					
430	02-1006-0236	Ball Bearing 6215zz	Nos	12	12					
431	02-1006-0237	Bearing 6236	Nos	22	22					
432	02-1006-0238	Bearing 7324	Nos	18	18					
433	02-1006-0239	Bearing 7320 ATB-NTN	Nos.	4	4					
434	02-1006-0240	Bearing NU 322	Nos	26	26					
435	02-1006-0241	Bearing 6324C3	Nos	278	278					
436	02-1006-0242	Bearing NU-322	Nos	28	28					
437	02-1006-0245	Bearing ^240	Nos	28	28					
438	02-1006-0246	Bearing ^226	Nos	30	30					
439	02-1006-0247	Bearing NU226	Nos	30	30					
440	02-1006-0248	Bearing 1203	Nos	30	30					
441	02-1006-0249	Bearing NU -318	Nos	15	15					
442	02-1006-0250	Roller Beareing Nu-320 Make SKF	Nos	1	1					
443	02-1006-0254	Cylinderical Roller Bearing SKF NU-313 ECJ	Nos	11	11					
444	02-1006-0261	Bearing NU 230m	Nos	5	5					
445	02-1006-0263	Ball Bearing 2218K	Nos	1	1					
446	02-1006-0271	Double Ball Bearing 22312 DDI NTN Japan	Pcs	4	4					
447	02-1006-0273	Ball Bearing 6316 ZZ Make SKF	Nos	2	2					
448	02-1006-0274	Ball Bearing 6317 ZZ Make-SKF	Nos	2	2					
449	02-1006-0275	Ball Bearing 6318 ZZ Make-SKF	Nos	10	10					
450	02-1006-0276	Ball Bearing 627 ZZ	Nos	10	10					
451	02-1006-0278	Ball Bearing 6303 ZZR Make FAG	Nos	51	51					
452	02-1006-0286	Ball Bearing 608ZZ NBN	Nos	46	46					
453	02-1006-0287	Tapper Roller Bearing 7212E	Nos	4	4					
454	02-1006-0288	Double Spherical Roller Bearing(Self Aligned)#23124EASM FAG	Nos	3	3					
455	02-1006-0289	Roller Bearing NU-220 ETVP2(Polyamide Cage) FAG	Nos	16	16					
456	02-1006-0290	Roller Bearing Nu-222 ETVP-2 (Polyamide Cage) FAG	Nos	4	4					
457	02-1006-0296	Tapper Roller Bearing H9 13810 / HQ 13849 NTN	Nos	4	4					
458	02-1006-0297	Roller Bearing 2310 NTN	Nos	1	1					
459	02-1006-0306	Ball Bearing D-119 FAG I-D=94mm OD-149mm	Nos	4	4					
460	02-1006-0309	Tapper Roller Bearing ix 32017 NTN	Nos	7	7					
461	02-1006-0314	Ball Bearing 6004 SKF	Pcs	67	67					
462	02-1006-0330	Double Ball Bearing 2218K 2KL	Pc	3	3					
463	02-1006-0331	Ball Bearing 6407 SKF	Pcs	10	10					
464	02-1006-0340	Bearing UC-308 NTN	Nos	2	2					
465	02-1006-0345	Deep Groove Ball Bearing 6240-M-C3	Nos	1	1					
466	02-1006-0346	Deep Groove Ball Bearing NU230-E-M1	Nos	2	2					
467	02-1006-0347	Ball Bearing 6000ZZ	Nos	19	19					
468	02-1006-0353	Ball Bearing 6217SKF	Pcs	11	11					
469	02-1006-0354	Grindreical Roller Bearing NJ-406m-Brass Cage FAG / SKF	Pcs	4	4					
470	02-1006-0355	Tapper Roller Bearing (SKF) 30206J2Q	Nos	266	266					
471	02-1006-0357	Tapper Roller Bearing No HR 3020 4J	Nos	6	6					
472	02-1006-0359	Rollor Bearing Nu-240ECMA/C3 SKF	NOs	1	1					
473	02-1006-0360	Taperd Roller Bearing 30312-A FAG(30312 J2/Q)	Nos	2	2					
474	02-1006-0361	Cylindercal Roller Bearing FAG NJ-2307E JVP2	Nos	3	3					
475	02-1006-0362	Ball Bearing 6015ZZ NTN	Pcs	6	6					
476	02-1006-0363	Tapper Roller Bearing 32206 SKF	Pcs	12	12					
477	02-1006-0365	Bearing GYE55 KRR-B INA Unit bearing	Nos	2	2					
478	02-1006-0366	Tapper Roller Bearing SKF 31314 J2/QCL7A	Nos	4	4					

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479	02-1006-0367	Angular Contact Ball Bering FAG 3313B TVH C3	Nos	2	2					
480	02-1006-0368	Deep Groove Ball Bearing 6215 FAG	Nos	4	4					
481	02-1006-0370	Ball Bearing 6412/c3	Nos	4	4					
482	02-1006-0372	Ball Bearing 6008 SKF	Nos	6	6					
483	02-1006-0378	Ball Bearing 6310-2RSR(Steel Cage) Make Fag	Nos	4	4					
484	02-1006-0381	Bearing Nu-248E-M1 Make-FAG	Nos	1	1					
485	02-1006-0383	Precisin Angular Contact Ball Bearing No.7007 CD/P4A	Nos	4	4					
486	02-1006-0395	Spherial Roller Bearing 22316E SKF	Nos	2	2					
487	02-1006-0397	22240CC/C3W33 SKF Spherical Roller Bearing	Nos	2	2					
488	02-1006-0400	NJ-410 Cylindrical Roller Bearing	Nos	1	1					
489	02-1006-0401	Deep Grove Ball Bearing No.6013 ZZR	Nos	8	8					
490	02-1006-0406	Deep Grove Ball Bearing SKF Size-6209 ZRSR	Nos	2	2					
491	02-1006-0407	Thrust Ball Bearing 51216	Nos	3	3					
492	02-1006-0408	Double Roller Bearing RUA.6905-XL	Nos	2	2					
493	02-1006-0409	Rotor Guide Bearing Size-AGW Roller Bearing 23060-E1-C3	Nos	2	2					
494	02-1006-0411	Cylinderal Roller Bearing NJ-230	Nos	2	2					
495	02-1006-0412	Bearing UL-216	Nos	34	34					
496	02-1006-0415	Anglular Contact Ball Bearing 7212	Nos	8	8					
497	02-1006-0420	Deep Grove Ball Bearing 6261 ZZ Fag	Nos	96	96					
498	02-1006-0421	Tapper Ruler Bearing 30321-J 5 (Steel Cage)	Nos	6	6					
499	02-1018-009	Protabel UltraSonic EPD-621	Nos	1	1					
500	02-1018-0010	Lead Detectior EDP-B3	Nos	1	1					
501	02-1018-0011	UltraSonic Dectectior Ultra Pro 2000	Nos	1	1					
502	02-1018-0012	Injection Pump Drive Horsing(xi,07,0000)	Nos	5	5					
503	02-1018-0014	Filter Cortridge XT.21.0000	Nos	7	7					
504	02-1018-0015	Filter Cortridge XT.22.0000	Nos	4	4					
505	02-1018-0017	Starting valve xt.48.0000	Nos	1	1					
506	02-1018-0018	Copper Bearing Main Shell(xi,0000)	Nos	12	12					
507	02-1018-0019	Wide Lower Bearing Main Shell (xi,01,0003)	Nos	12	12					
508	02-1018-0020	Valve lever spring xt.03.0001	Nos	8	8					
509	02-1018-0021	Outer valve spring xt.03.0004	Nos	8	8					
510	02-1018-0022	Valve spring xt.03.0022	Nos	4	4					
511	02-1018-0023	Exhaust felt M/F G/ket03.00	Nos	2	2					
512	02-1018-0024	Piston (xi,02,0015)	Nos	8	8					
513	02-1018-0025	Connecting rod bush XT.02.0006	Nos	6	6					
514	02-1018-0026	Valve Guide XT.03.0007	Nos	12	12					
515	02-1018-0027	Intake Valve (xi,03,0007)	Nos	12	12					
516	02-1018-0038	R/seal tube size 101x112x60mm	Nos	63	63					
517	02-1018-0039	Cost Iron clamp size 90mm	Nos	70	70					
518	02-1018-0048	MS conector spilit 8"	Nos	153	153					
519	02-1018-0052	Flange Nipple 3.5	Nos	100	100					
520	02-1018-0067	O-Type Rubber I/pump 198x	Nos	96	96					
521	02-1018-0087	Lower shaft sleeve C.P pump 7LDTN-0104	Nos	3	3					
522	02-1018-0088	Manuf.Shaft for Bush of Condensate Pump-80x135mm	Nos	3	3					
523	02-1018-0090	2nd shafts for C.P Pump (Gland Sleeve)	Nos	5	5					
524	02-1018-0099	Welding glass single black	Nos	21	21					
525	02-1018-0115	Oil pump assembly 2849	Nos	1	1					
526	02-1018-0117	S.S Shaft 66x2470mm	Nos	2	2					
527	02-1018-0118	S.S Shaft 50x1370mm	Nos	3	3					
528	02-1018-0119	S.S Shaft 45x1880mm	Nos	2	2					
529	02-1018-0138	Acid D/pump C/iron 150x600	Nos	3	3					
530	02-1018-0139	Mud Pump Impeller 300x600	Nos	2	2					
531	02-1018-0143	Instrument Air Comp. 600x235	Nos	2	2					
532	02-1018-0145	Two Piece Locking Ring 13ER M044	Nos	6	6					
533	02-1018-0148	Spiral Gasket dia 404/383x4.5	Nos	3	3					
534	02-1018-0151	Bolts M-22-Tx 80sw/17mn	Nos	4	4					
535	02-1018-0152	Extrcting Ring Consisting ARS112/048	Nos	2	2					
536	02-1018-0153	Extrcting Ring NB 64-500A6	Nos	3	3					
537	02-1018-0154	Filter Insert NB-64-500A6	Nos	30	30					
538	02-1018-0160	Plug Retaining Screw NB-64-500A6005	Nos	3	3					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
539	02-1018-0161	Locking plate	Nos	3	3					
540	02-1018-0162	Spherical disc seat A6-1	Nos	9	9					
541	02-1018-0163	T hree loacking plate	Nos	9	9					
542	02-1018-0167	Helicaly Corrugated 100x1340 (S.S Hose Pipe)	Nos	40	40					
543	02-1018-0169	Welding electrod 1.6 mm	Kg	30	30					
544	02-1018-0170	Welding electrod 2.0 mm	Kg	15	15					
545	02-1018-0173	Bell Mighty air trap AE8-9	Nos	5	5					
546	02-1018-0197	Lube priming pump (xt 240000)	Nos	1	1					
547	02-1018-0199	Over Speed S/Device XT6100	Nos	1	1					
548	02-1018-0200	Safty Valve	Nos	6	6					
549	02-1018-0201	W/Sealing ring XT.01.3000	Nos	1	1					
550	02-1018-0202	Conncting rod bushing xi,0006,	Nos	12	12					
551	02-1018-0203	1st 2nd piston ring xt02.00002	Nos	12	12					
552	02-1018-0204	3rd 4th piston ring xt02.00002	Nos	24	24					
553	02-1018-0205	Oil ring piston xt.02.0003	Nos	12	12					
554	02-1018-0206	Conct.Rod bearing shell	Nos	6	6					
555	02-1018-0207	Ball Tappct Xt.03.2006	Nos	11	11					
556	02-1018-0208	Exhaust Valve	Nos	6	6					
557	02-1018-0209	Valve Rock Arm XT.03.2003	Nos	12	12					
558	02-1018-0210	Valve Rock Arm XT.03.2005	Nos	12	12					
559	02-1018-0211	Fuel Injiction	Nos	3	3					
560	02-1018-0214	Cast Iron Bush 150 x 100x150	Kg	5	5					
561	02-1018-0215	Cast Iron Bush 125 x 75x150	Kg	6	6					
562	02-1018-0216	Cast Iron Bush 100 x 75x150	Kg	3	3					
563	02-1018-0217	Cast Iron Bush 75X 25X150	Kg	4	4					
564	02-1018-0219	Cast Iron Round Bar 40x150	Kg	16	16					
565	02-1018-0220	Cast Iron Round Bar 30X150	Kg	78	78					
566	02-1018-0231	Bronze Bar Round 55 x150	Kg	2	2					
567	02-1018-0232	Bronze Bar Round 50x 150	Kg	105	105					
568	02-1018-0234	Bronze Bar Round 40 x 150	Kg	75	75					
569	02-1018-0235	Bronze Bar Round 35 x 150	Kg	51	51					
570	02-1018-0236	Bronze Bar Round 30 x 150	Kg	35	35					
571	02-1018-0240	Stainless Steel Bar 15 X 3000	Nos	3	3					
572	02-1018-0257	Coper enamel Wire swg 16	Kg	176	176					
573	02-1018-0259	Coper enamel Wire swg 27	Kg	253	253					
574	02-1018-0260	Coper enamel Wire swg 33	Kg	93	93					
575	02-1018-0261	Coper enamel Wire swg 34	Kg	28	28					
576	02-1018-0263	Stainless steel Flange Sus 304 Size 8" 200mm	Pairs	23	23					
577	02-1018-0264	S.S.Tee 6"	Nos	1	1					
578	02-1018-0269	Pipe ring M.S for 1/Pump 145mm	Nos	10	10					
579	02-1018-0277	Diaphram with Central Nut 205.5mm	Nos	16	16					
580	02-1018-0281	Small end Metal for S.A Comp.	Nos	2	2					
581	02-1018-0282	Big end Metal for S.A.Comp.4U23889	Nos	2	2					
582	02-1018-0285	Relif Valve For I.A.C	Nos	2	2					
583	02-1018-0286	Snap Raing For I.A.C	Nos	2	2					
584	02-1018-0287	Oil Seal SB8512015	Nos	1	1					
585	02-1018-0297	Gate Valve Class-1500 A-216 4"	Nos	1	1					
586	02-1018-0303	Cast Iron Handle for HWV of Cooling Tower Distiction Valve	Nos	32	32					
587	02-1018-0311	Rubber Oil Seal 40 x 65 x 10 mm	Nos	5	5					
588	02-1018-0315	Rubber Oil Seal 32 x 48 x 8 mm	Nos	6	6					
589	02-1018-0317	Boiler Tube 16 x 3 mm	Mtr	51	51					
590	02-1018-0319	Boiler Tube 42x3.5	Nos	34	34					
591	02-1018-0320	Boiler Tube 42 x 6 mm	Nos	12	12					
592	02-1018-0321	Boiler Tube 51 x 4 mm	Nos	149	149					
593	02-1018-0322	Boiler Tube 51 x 4 mm	Mtrs	58	58					
594	02-1018-0323	Boiler Tube 51 x 6 mm	Mtrs	52	52					
595	02-1018-0334	Cotton Hand Gloves	Pair	2,064	2,064					
596	02-1018-0347	Valve Stem Fr R.S.V	Nos	1	1					
597	02-1018-0351	S.S Sheet 1mm	Nos	45	45					
598	02-1018-0353	Acid UN LOADING PUMP T.50FS-35,U.50MMDIA	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
599	02-1018-0354	Hard PVCSparyNozzels for C/Tower(Inner-30mm Out-60mm Lenght100mm	Nos	7,000	7,000					
600	02-1018-0399	Tapper Pin CO1M-147	Nos	6	6					
601	02-1018-0400	Bush Fr MBS	Nos	5	5					
602	02-1018-04062	Genral Bearing MOP	Nos	1	1					
603	02-1018-0403	Wear Ring MOP-221	Nos	2	2					
604	02-1018-0404	Wear Ring MOP-222	Nos	2	2					
605	02-1018-0405	Cap Nut RSV 252	Nos	4	4					
606	02-1018-0406	Taper Pin for RSV CO1R-253	Nos	4	4					
607	02-1018-0407	Spiral Wound Gaskit CO1R-830	Nos	6	6					
608	02-1018-0447	1-Cromov Steel dia 140 x 500 mm	Nos	2	2					
609	02-1018-0448	1-Cromov Steel dia 180 x 500 mm	Nos	2	2					
610	02-1018-0451	3 S35C Steel dia 60 x 500 mm	Nos	5	5					
611	02-1018-0456	White Metal 11/R (Pure Tin R-11)	Kgs	30	30					
612	02-1018-0480	Cromor Steel 85 x 1000 mm	Nos	3	3					
613	02-1018-0486	S35C Seel 75 x 250 mm	Nos	4	4					
614	02-1018-0487	S35C Seel 85 x 250 mm	Nos	2	2					
615	02-1018-0488	S35C Seel 60 x 250 mm	Nos	5	5					
616	02-1018-0489	S35C Seel 50 x 250 mm	Nos	5	5					
617	02-1018-0496	R. O Service Screw Pump 1450RPM (Type-SNH660~46)	Nos	3	3					
618	02-1018-0503	Helical Piniom Shafd	Nos	2	2					
619	02-1018-0508	S.S Plate @5mm	Nos	5	5					
620	02-1018-0509	Boiler Tube dia 32 x 5 mm	Mtrs	14	14					
621	02-1018-0510	Boiler Tube dia 42 x 6 mm	Mtrs	114	114					
622	02-1018-0513	Rotating Blade 69-203-109	Nos	10	10					
623	02-1018-0514	Rotating Blade 69-203-110	Nos	8	8					
624	02-1018-0546	Roller chain Coupling Type 8018	Sets	1	1					
625	02-1018-0582	Fiber Sheet 15 mm	KG	18	18					
626	02-1018-0584	Fiber Sheet 30 mm	Kg	20	20					
627	02-1018-0585	Fiber Sheet 35 mm	Kg	23	23					
628	02-1018-0602	Copper enamlled wire swg 21	kgs	19 .9	19 .9					
629	02-1018-0605	Tin	Kgs	50	50					
630	02-1018-0627	Air Operated Valve Hot N88-00399 size 65 mm	Nos	4	4					
631	02-1018-0631	Air Operated Valve Hot N88-00463 size 65 mm	Nos	1	1					
632	02-1018-0636	Air Operated Type-46B41J-10K Size-25mm	Nos	4	4					
633	02-1018-0637	Air Operated Valve Hot N88-00423(Type-46B41J-10R Size-40mm)	Nos	4	4					
634	02-1018-0653	Spiral Wound Gaskit Ex2 237-274.5	Nos	8	8					
635	02-1018-0654	Spiral Wound Gaskit Ex2 4.5 mm	Nos	8	8					
636	02-1018-0662	Spiral Gar Shafd L80	Nos	4	4					
637	02-1018-0667	Condinser Drain Pit Pump Impeller Outer-405 ID-295x307mm	Nos	1	1					
638	02-1018-0718	Mfg.ofDiscPlateOfNon-ReturnValveOf Slug drain Pit PumpSize93x75x9	Nos	3	3					
639	02-1018-0733	Black Lead Powder	Kgs	385	385					
640	02-1018-0736	Mafg.of Star for Diaphrgm Valve Size-100 OD-167x124mmBore-6mm	Nos	3	3					
641	02-1018-0745	Lead Wire 1mm Dia	Kgs	1	1					
642	02-1018-0779	Gate Valve Flange Type-Class125 Size-65mm Cast Iron	Nos	5	5					
643	02-1018-0788	Castable Refectory Material fade Bland Type-CBF 140 TS	Kgs	80	80					
644	02-1018-0789	Abrasive Mounted Tips(Polishing Stone-Pencil Grinder Stone)	Nos	140	140					
645	02-1018-0790	Silica Wool/Ceramic Wool 2X5mx25mm(25x600x7200mm)Density-130kg	Roll	109	109					
646	02-1018-0792	Check valve size 8"	Nos	1	1					
647	02-1018-0795	Armowed Rubber Hose Pipe 3.5" (For Furnance Oil)L=20FT	Nos	6	6					
648	02-1018-0800	Head Valve C4-1	Nos	2	2					
649	02-1018-0802	Lance Tube C4-1	Nos	1	1					
650	02-1018-0810	Main Oil Pump Id Fan	Nos	1	1					
651	02-1018-0818	Crank Shaft for VS-55-OLNonLubricated(Cylinder)AirCompressor(APS)	Nos	1	1					
652	02-1018-0819	Cross Head Assembly 200X130X160 TOTAL LENGHT:230MM	Nos	3	3					
653	02-1018-0820	Coupling Sassembly	Nos	3	3					
654	02-1018-0821	Cylinder Assembly	Nos	1	1					
655	02-1018-0824	Manufaturing of Big End Bushing as Per Size of RepairedCrankFofIB	Set	1	1					
656	02-1018-0826	Bellos Fr MSV	Nos	2	2					
657	02-1018-0833	Regulating Valve 32mm	Nos	2	2					
658	02-1018-0834	Regulating Valve 50mm	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
659	02-1018-0837	Mechnical Seal 60 mm	Nos	1	1					
660	02-1018-0838	S.S Reducer TEE (Sus-304) Size-6"x8" Seamless	Nos	3	3					
661	02-1018-0839	Non-Return Valve 100 mm(Cast Iron GJL-250 Swing Chek Valve PN16)	Nos	12	12					
662	02-1018-0840	Non-Return Valve pg-10 dg-125 mm	Nos	1	1					
663	02-1018-0841	Non-Return Valave Flange Type Pressure10/Kgs/cm2 Size-80	Nos	9	9					
664	02-1018-0842	Non Return Valve Flange Type Size-65mm	Nos	6	6					
665	02-1018-0845	Gate Valve (C. I) DN - 50	Nos	5	5					
666	02-1018-0849	Elbow Pipe Part (ABS) DN - 100	Nos	5	5					
667	02-1018-0850	Elbow Pipe Part (ABS) DN - 80	Nos	10	10					
668	02-1018-0856	45 Elbow Material (ABS) DN - 50	Nos	7	7					
669	02-1018-0857	Tee (Pipe Part) (AB) DN - 100	Nos	17	17					
670	02-1018-0860	Tee (Pipe Part) (AB) DN - 50	Nos	5	5					
671	02-1018-0865	Reducing Joint Material ABS DN 80/65	Nos	10	10					
672	02-1018-0866	Reducing Joint Material ABS DN 65/50	Nos	2	2					
673	02-1018-0878	Steel Flange Mat. A3 Steel DN 100 Pr10	Nos	10	10					
674	02-1018-0908	G.I Nut & Bolt With Washer M8 i)8x10mm	Kgs	178	178					
675	02-1018-0917	Sealing Valve DN 40	Nos	1	1					
676	02-1018-0918	Moveable Joint Material (ABS) DN 15	Nos	15	15					
677	02-1018-0925	90 Elbow With Pipe PVC DN.300	Nos	3	3					
678	02-1018-0926	45 Elbow With Pipe PVC DN.300	Nos	3	3					
679	02-1018-0930	Plastic Flange Material ABS DN 100	Nos	8	8					
680	02-1018-0931	Plastic Flange Material ABS DN 80	Nos	8	8					
681	02-1018-0936	Plastic Flange Material ABS DN 15	Nos	2	2					
682	02-1018-0943	Zinc Plating Steel Flng A3 Steel DN80	Nos	23	23					
683	02-1018-0944	Zinc Plating Steel Flng A3 Steel DN65	Nos	1	1					
684	02-1018-0945	Zinc Plating Steel Flng A3Steel DN100-1	Nos	26	26					
685	02-1018-0946	Zinc Plating Steel Flng A3 Steel DN 80-1	Nos	34	34					
686	02-1018-0947	Zinc Plating Steel Flng A3 Steel DN 80-2	Nos	3	3					
687	02-1018-0948	Zinc Plating Steel Flng A3 Steel DN 65-1	Nos	6	6					
688	02-1018-0949	Zinc Plating Steel Flng A3 Steel DN 50-1	Nos	4	4					
689	02-1018-0950	Zinc Plating Steel Flng A3 Steel DN 50-2	Nos	8	8					
690	02-1018-0951	Plastic Pipe Mat. ABS Type DN 100	Mtrs	341	341					
691	02-1018-0952	Plastic Pipe Mat. ABS Type DN 80 (3")	RFT.	298	298					
692	02-1018-0963	Diapharma Valve Mat. ABS DN 15	Nos	2	2					
693	02-1018-0965	Quick Removing Filter	Nos	4	4					
694	02-1018-0967	Glass Rota Mater LBZ-100	Nos	3	3					
695	02-1018-0974	Flow Gauge Glass for u # 1	Nos	1	1					
696	02-1018-0976	Elocto Megnectic Flow Transmeter	Set	1	1					
697	02-1018-0979	Valve Seat ARS-112	Nos	2	2					
698	02-1018-0980	Guide Bush ARS112.44/046	Nos	2	2					
699	02-1018-1002	G.I Nut & Bolt With Washer & Spring M8 Size-8x20mm	Kgs	88	88					
700	02-1018-1019	S.S Pipe (ERW) 1" SCH:20	RFT	140	140					
701	02-1018-1067	S.S Bar sus 304 65mm (2 1/2")	kgs	145	145					
702	02-1018-1068	S.S Bar sus 304 60mm (2 1/2")	kgs	306	306					
703	02-1018-1069	S.S Bar sus 304 55mm (2 1/4")	kgs	150	150					
704	02-1018-1072	S.S Bar sus 304 40mm (1 1/2")	kgs	60	60					
705	02-1018-1073	S.S Bar sus 304 30mm (1 1/4")	kgs	15	15					
706	02-1018-1074	S.S Bar sus 304 25mm (1")	kgs	25	25					
707	02-1018-1077	BCW Pump Bearing Housing OD-180mm Hub-108 Bore-100mm	Nos	8	8					
708	02-1018-1078	BCW Pump Impeller Wear Ring OD1-290mm OD2-280Bore1-260mm	Nos	8	8					
709	02-1018-1085	Stainless Steel Bar SUS size 316 55mm	kgs	168	168					
710	02-1018-1114	Rubber Hose Pipe 21/2x15(Darson) Heavy Duty with Clamp	Nos	3	3					
711	02-1018-1118	Seamless cord drawn steel tube MA-192	Meter	59	59					
712	02-1018-1126	DIFFUSER CASING FOR CONDENSET PUMP U#1 O-446 I-200 (MCI)	Nos	21	21					
713	02-1018-1129	Spary Scerew	Nos	7	7					
714	02-1018-1156	Taflone Tape 70mm	kgs	10	10					
715	02-1018-1164	Catting Desc 4 (Size-100x2.4x16mm)	Nos	1,021	1,021					
716	02-1018-1196	STAINLESS STEEL ELECTRODES AWS-308-16 3.2X350MM	Kgs	179	179					
717	02-1018-1198	S.S Welding Electrode 2.6mm material -SUS-316	Kgs	65	65					
718	02-1018-1199	Wlding Face Shield With Glass	Nos	7	7					

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1	2	3	4	5	6	7	8	10	11	12
719	02-1018-1236	Sleeve R. Bearing S.S 72x40x120mm/78mmx120mm SS-316	Nos	6	6					
720	02-1018-1237	Sleeve R. Bearing S.S 65x50x155(72mmx66mmx155mm)	Nos	5	5					
721	02-1018-1253	Copper Enamlled Wire Swg-25	kgs	119	119					
722	02-1018-1254	Copper Enamlled Wire Swg-24	kgs	81	81					
723	02-1018-1255	Copper Enamlled Wire Swg-20	kgs	61	61					
724	02-1018-1258	Copper Enamlled Wire Swg-14	kgs	201	201					
725	02-1018-1264	G Packing L. P 6x6mm Style-1099	kgs	11	11					
726	02-1018-1265	G Packing L. P 8x8mm	kgs	4	4					
727	02-1018-1281	Oil Gum Connector(S.S Flexible Pipe Size-OD=25mmx415mm(A.P.S)	Set	77	77					
728	02-1018-1284	Bulb Screw Type 200w	Nos	26	26					
729	02-1018-1290	Emery Cloth No. 400	Dz	26	26					
730	02-1018-1292	Cutting Disc 7 9Size-180x3.0x22.2mm)	Nos	340	340					
731	02-1018-1296	Asbesos Rope 8mm	kgs	215	215					
732	02-1018-1297	R Hose Pipe 12mm	Meter	347	347					
733	02-1018-1336	R.O Ring 134x5x100mm	Nos	29	29					
734	02-1018-1339	Diaphram for mech filtar 360x12mm	Nos	3	3					
735	02-1018-1370	H. P. G Packing 12mm Style-1077	kgs	10	10					
736	02-1018-1375	S.S Round Bar 20mm	Kg	31	31					
737	02-1018-1378	Graphite Gland Packing Style.1099 Size-8mm	Kgs	17	17					
738	02-1018-1379	Flexiable Graphite Paking 1099 Size-10mm	Kgs	27	27					
739	02-1018-1381	Diaphrgam Gland Fins Stage Ist	Set	2	2					
740	02-1018-1383	Diaphrgam Gland Fins Stage 3rd	Set	1	1					
741	02-1018-1384	Diaphrgam Gland Fins Stage 4th	Set	1	1					
742	02-1018-1385	Diaphrgam Gland Fins Stage 5th	Set	1	1					
743	02-1018-1386	Diaphrgam Gland Fins Stage 6th	Set	1	1					
744	02-1018-1387	Diaphrgam Gland Fins Stage 7th	Set	1	1					
745	02-1018-1389	Diaphrgam Gland Fins Stage 9th	Set	1	1					
746	02-1018-1390	Diaphrgam Gland Fins Stage 10th	Set	1	1					
747	02-1018-1391	Diaphrgam Gland Fins Stage 11th	Set	1	1					
748	02-1018-1402	Diaphrgam Gland Fins Stage 23th	Nos	2	2					
749	02-1018-1403	Diaphrgam Gland Fins Stage 24th	Set	2	2					
750	02-1018-1404	Diaphrgam Gland Fins Stage 28th	Set	2	2					
751	02-1018-1405	Diaphrgam Gland Fins Stage 29th	Set	2	2					
752	02-1018-1423	Grinding Disc 7"x1/4x7"/8	Nos	260	260					
753	02-1018-1424	S.S Welding Rod 2.5mm/2.6MM 316SUS	Kg	30	30					
754	02-1018-1430	White Syntatic PTK-28(LP)Gland Packing Style-1077 Size-16mm	Kgs	25	25					
755	02-1018-1431	White Syntatic PTK-28 Gland Packing Style-1077 Size-14mm	Kg	10	10					
756	02-1018-1444	S.S Ball Valve Flange Type Size-40mm	Nos	5	5					
757	02-1018-1445	S.S Flange 50mm	Nos	18	18					
758	02-1018-1466	M.S Elbow 50m Sch=40 SUS-304 603x50.03.9mm 2"(Size-57.8x50x3.9)	Nos	52	52					
759	02-1018-1482	3-Hymj No.1 Insulation Vernish Burger (20 Liter Packing)	Liter	60	60					
760	02-1018-1506	Vermico Poder	Kgs	250	250					
761	02-1018-1507	Pock Wool Board,Denisty 80KG/Cm2 Size (I) 600x1200x75mm	Sheet	702	702					
762	02-1018-1509	Rock Wool Size (iii) 600x1200x25mm	Sheet	2,560	2,560					
763	02-1018-1540	S.S Elbow 90" Size 200x3.5mm 6.0mm	Nos	10	10					
764	02-1018-1541	M.S Pipe (scheu;e 40) Size 15mm	Meter	20	20					
765	02-1018-1546	M.S Elbow (she:40) Size 25mm	Nos	24	24					
766	02-1018-1547	M.s Elbow (Sed:40) Size 75mm	Nos	118	118					
767	02-1018-1551	M.S Tee (Sed:40) Size 100mm	NOs	4	4					
768	02-1018-1563	Swing Chak Valve Flanged Rateing 10K (C.I Body) Kit Z Japan Size	NOs	6	6					
769	02-1018-1609	Cast Iron Size- A-25x150mm	Nos	23	23					
770	02-1018-1616	Cast Iron Bush Size.50x75x200 mm	Nos	3	3					
771	02-1018-1618	Cast Iron Bush Size.100x125x300 mm	Nos	6	6					
772	02-1018-1619	Cast Iron Bush Size.200x250x300 mm	Nos	3	3					
773	02-1018-1620	Cast Iron Bush Size.250x300x300 mm	Nos	3	3					
774	02-1018-1621	Cast Iron Bush Size.100x200x200 mm	Nos	4	4					
775	02-1018-1646	Insulation Steevo # 01	Nos	324	324					
776	02-1018-1663	Cost Iron Bush Size Dia 260x320x300mm	Kg	3	3					
777	02-1018-1677	Bolt & Nut 6x25 mm	Nos	55	55					
778	02-1018-1690	Rubber Star Cupling PAD 36x76x19	Nos	18	18					

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779	02-1018-1692	Insulation Sleeve No.3	Nos	1,488	1,488					
780	02-1018-1694	Insulation Sleeve No.8	Nos	1,085	1,085					
781	02-1018-1714	Manuf.of Thurst Paid booster pump thik-6mmx2mm	Pcs	90	90					
782	02-1018-1715	Filter Cloth Bag (Filter Bags)	Nos	128	128					
783	02-1018-1726	Taflone Bar 40mm	Gram	8	8					
784	02-1018-1756	Gear Coupling Set with key Complete Set 90X225(44X90X100)	Set	1	1					
785	02-1018-1763	Fire Bricks Size=225x112x62mm	Nos	400	400					
786	02-1018-1791	Steel Sheet (S.S) 28 Gauge	Kgs	12	12					
787	02-1018-1809	M.S Squire Bar 25mmx25mm	Kg	30	30					
788	02-1018-1822	Rubber Linc Diaphram Valve Dia 32mm	Nos	1	1					
789	02-1018-1834	Rubber Coupling Pads 8 Star Type Size-75x35mm	Nos	17	17					
790	02-1018-1837	Taflon Bar 35mm	Kgs	19	19					
791	02-1018-1842	Needle Valve 1/4 BSP	Nos	3	3					
792	02-1018-1843	Rubber Copuling 6" (size-150x72x35mm)	Nos	5	5					
793	02-1018-1846	Spring Steel WireK-(APS) L=10x36mm	Nos	40	40					
794	02-1018-1848	Enamalled Copper Wire SWG 21 Modern	Kgs	28	28					
795	02-1018-1862	Pillow Bearing Housing P308J NTN	Nos	2	2					
796	02-1018-1887	Rubber Coupling Pad APS for Main Flow Valve Size-70x42x56mm	Nos	60	60					
797	02-1018-1907	Silicon Bronze Electrode Type S-211 Dimension 4.0x1000mm	Kg	16	16					
798	02-1018-1908	Stain Less Steel 0.3mm Sheet Size-32 Gauge	Kgs	500	500					
799	02-1018-1912	Gland Packing(03Pec)Outter=52mm Iner=30mm Thicness=7.25mm(Carbon)	Set	7	7					
800	02-1018-1954	Rubber Coupling With Stainless Steel Bush 38x17x55(Rubber Buffer)	Nos	72	72					
801	02-1018-1980	2nd Stage CopperPackingRinge OT-149mm In-140mm 2mm	Nos	48	48					
802	02-1018-1981	2nd Stage CopperPakingRings OT-139mm Ir-129mmThicknes-1.5m	Nos	48	48					
803	02-1018-1997	Mild Steel Bar Hexahonal(Menimum Lenght01Meter)Size-60mm	Kgs	90	90					
804	02-1018-2028	Spiral Wound Gaskits Size-400x475x4.5mm Class 900	Nos	10	10					
805	02-1018-2029	Spiral Wound Gaskits Size-500x570x4.5mm Class 1500	Nos	6	6					
806	02-1018-2032	Spiral Wound Gaskits Size-90x135x4.5 Class 600	Nos	56	56					
807	02-1018-2037	Flexible Coupling for stator Cooling water Pump Dia-165/35x25mm	Nos	4	4					
808	02-1018-2070	M.S Bolt 12x30MM	Kgs	469	469					
809	02-1018-2078	M.S Welded Pipe Dia-426x7mm	FT	80	80					
810	02-1018-2094	O- Ring 400x5 mm	Nos	22	22					
811	02-1018-2112	Coupling Size-125x75mm Material Cast Iron	Nos	4	4					
812	02-1018-2131	Resin Hardener Make 25 sets A=1.0kg b=500 grams	Sets	6	6					
813	02-1018-2135	Lock Pin Hinges	Nos	4	4					
814	02-1018-2137	S.S Metal Hose Pipe20x1500 Make UK)AlongWithMale&FemaleConnection	Nos	20	20					
815	02-1018-2146	MS Elbow 1 1/2"	Nos	24	24					
816	02-1018-2161	M.S Bar (Hexagonal) 20mm	Nos	23	23					
817	02-1018-2172	Piston of Yard Inst:air Compressor Size-130x120mm 2 Pcs Set	Set	2	2					
818	02-1018-2178	Gland Paking Style -1099 Size-12mm	Kgs	7	7					
819	02-1018-2210	Stainless Steel Bar 12mm	Kgs	25	25					
820	02-1018-2213	Gland Pusher for Sampling Pump Size-100x25mm Material Cast Iron	Nos	5	5					
821	02-1018-2223	Rubber Coupling Bushes 35x18x10mm	Nos	44	44					
822	02-1018-2281	Copper Bar 50mm	Kgs	9	9					
823	02-1018-2285	M.S Clamp 4 1/2" (36-39)	Nos	6	6					
824	02-1018-2298	Copper Enamelld Wire SWG 22 Gazilix	Kgs	19	19					
825	02-1018-2311	Tig Electrode Size-2.4x175 AWS 5.1292	Nos	70	70					
826	02-1018-2334	M.S Bar 70mm	Kgs	120	120					
827	02-1018-2347	Copper Sheet 2.5mm	Kgs	21	21					
828	02-1018-2362	V-Belt FM-47 (SK-47)	Pcs	4	4					
829	02-1018-2378	M.S Nut & Bolt 6x30mm	Kgs	196	196					
830	02-1018-2381	G.I Impeler of Centrifugal Pump Size O/D 130mm Shaft O/D 20mm	Nos	3	3					
831	02-1018-2388	Nuts & Bolt M6 Size-8x15 and 6x40mm	Kgs	292	292					
832	02-1018-2405	Asbostos Rope 12mm China	Nos	345	345					
833	02-1018-2413	Rubber coupling 160 x 70 x 28 mm	Nos	2	2					
834	02-1018-2436	Spacer Plate M.S 330x180x24mm (Caster 75mm)	Set	5	5					
835	02-1018-2437	Spacer Plate M.S 330x180x12mm (Caster 50mm)	Set	5	5					
836	02-1018-2439	Copper Bar 19mm(20MM)	Kgs	19	19					
837	02-1018-2441	M.S R/Socket 80mx50mm Outer 90x Lenght 75mm	Nos	11	11					
838	02-1018-2459	Teflon bar Size-C,50mmx300mm	Nos	32	32					

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839	02-1018-2476	Rubber Coupling Pad Size-92x45x20mm (With 06 Nos PADS)	Nos	5	5					
840	02-1018-2483	Cut Screw (C.S.K) Size-8x18mm	Pkt	500	500					
841	02-1018-2484	Net Mesh 1" Hexagonal Wire Dia 1mm Width 900	Rft	968	968					
842	02-1018-2485	Bonding Wire 18SWG/G.I WIRE 1.5MM	Kgs	243	243					
843	02-1018-2507	Copper Enamel Wire SWG-26	Kgs	21	21					
844	02-1018-2532	Cast Iron Bar Size=E)175x1000mm	Nos	2	2					
845	02-1018-2533	Hydraulic Seal Synthetic Rubber Size-25x38	Nos	4	4					
846	02-1018-2543	Cast Iron Bar Size=d)150x1000mm	Nos	2	2					
847	02-1018-2545	Stainless Steel Bar, SUS-304 Minimum Lenght 2000mm Size=70mm	Kgs	3	3					
848	02-1018-2547	Taflone Bar (Pure) b) 45mmx300mm	Nos	24	24					
849	02-1018-2560	HelicalGearSize-96x41x31Way10x5m(40.95mmTeeth=80NosMatrialBronze	Nos	2	2					
850	02-1018-2561	Gear Shaft Size-23x176x17Way16mm(23x180mm Material Carbon Steel	Nos	2	2					
851	02-1018-2562	Shaft Size-31x193x20KeyWay6x30(30x140mm Material Cabon Steel	Nos	2	2					
852	02-1018-2563	Warm Gear Size-(99x30x29)Tecth-125 70x108x15mm (Material Bronze)	Nos	2	2					
853	02-1018-2613	Emery Paper Roll Size-2x50mx00	Roll	5	5					
854	02-1018-2618	M.SFlangeWithCollerForConnector632x652 635x800mm (As Per Sample)	Nos	5	5					
855	02-1018-2620	Silicon O Ring 40X3MM(35x3)	Pcs	92	92					
856	02-1018-2629	Rubber Hose Pipe 2"	Mtr	175	175					
857	02-1018-2647	Super Enamelted Copper Wire 195WG-24	Kgs	34	34					
858	02-1018-2684	1st Stage Copper Packing Ring Size-227/217 2mm	Nos	48	48					
859	02-1018-2690	M.S Welded Pipe for Intake Pipe Line 24x20 Thikness of Pipe=8mm	RFT	6	6					
860	02-1018-2719	Machine Screw 1/8"	Pkt	29	29					
861	02-1018-2727	Cast Iron Bush Size-270x325x300mm	Nos	2	2					
862	02-1018-2732	Brass Bar Hexagonal Size-30mm	Kgs	37	37					
863	02-1018-2734	P.Ring 2nd Stage Size-240x210x10(AirComp:Type-2D3.5-20/8-1)	Nos	9	9					
864	02-1018-2736	BearingBodyMaterial S.S Lenght-180mmMaxOD-135mm	Nos	8	8					
865	02-1018-2746	Air Compresor Block-upRing Size-240x220x70mmNon Lubri:Instrument	Nos	6	6					
866	02-1018-2747	Air Compresor Block-upRing Size-420x378x12mmNon Lubri:Instrument	Nos	10	10					
867	02-1018-2748	Air Compresor Block-upRing Size-420x390x80mm Non Lubri:Instrument	Nos	6	6					
868	02-1018-2751	Stainless Steel Flange SUS-304 dia-25x120x14mm	Pcs	8	8					
869	02-1018-2760	Nut+Bolt With Round Spring Washer 6mmx2 M6 6x50mm	Kg	223	223					
870	02-1018-2766	Suction Valve assembly 2nd Stage Compelete 122mm (As Per Sample)	Nos	12	12					
871	02-1018-2767	Dischage Valve assembly 2nd Stage Compelete Valve=122 Seat-130mm	Nos	12	12					
872	02-1018-2774	Manufacturing of CWP Discharge Valve Body Size-400x525x600mm	Nos	2	2					
873	02-1018-2804	IntermediateBearingIntakWaterPumpOD=443 ID=113mmHole#8U#01(A.P.S)	Nos	8	8					
874	02-1018-2816	Helical Gear Set a) OD=121mm Bore=40mm b)OD=305mm Bore=75	Set	7	7					
875	02-1018-2841	JOB-A Pump Body of Colony Drinking WaterPumpA Unit#1Material CI	Nos	1	1					
876	02-1018-2859	Upper Shaft Sleeve S.S.OD-65mmID-55mmL-124mmThik-4.8mm(APS)	Nos	16	16					
877	02-1018-2860	Packing Sleve S.SOD-65mmID-55mmL-142mmThik-4.75(A.P.S)	Nos	28	28					
878	02-1018-2861	Lower Shaft Sleeve S.SOD-65mmID-50L-165Thik-7.25(APS)	Nos	6	6					
879	02-1018-2862	Intermediate Beaaring S.SOD-90mmL-95mm (As Per Sample)	Nos	24	24					
880	02-1018-2863	Lower Bearing S.SWith RubberLiningOD-93CallerSideOD-90mmL95m(ASP)	Nos	4	4					
881	02-1018-2864	Locating Bush/Socket(Corbon Steel)OD-80mmId-52.5mmL-215mm(APS)	Nos	6	6					
882	02-1018-2865	Synthetic Rubber Gasket L=1000mm W=295mm HoleDia-80mm MaxPre.20kg	Nos	1	1					
883	02-1018-2880	Mianufacturin Of Rasin Tap Lenght-515mm O/D-215mm (A.P.S)	Nos	1	1					
884	02-1018-2881	M.S Square Shaft 2"x2"xSft	Kgs	50	50					
885	02-1018-2903	Tyflon Tape 1/2" TBA	Pcs	1,743	1,743					
886	02-1018-2910	TurbineMainOilPumpTooth Coupling Material High Corbon Steel(APS)	Set	1	1					
887	02-1018-2918	Phosphate Dusing Pump(TZ20HK 101-1758)	Set	2	2					
888	02-1018-2920	Ammonia and Hydrazine Dosing Pump HP2AH	Set	4	4					
889	02-1018-2921	Spare Power enf HP-2AH	Nos	1	1					
890	02-1018-2932	Copper Enameled Wire SWG-23	Kg	17	17					
891	02-1018-2982	Stainless Steel Bus Sus-304 230mmx300mmx300mm	Pcs	2	2					
892	02-1018-2983	Stainless Steel Bus Sus-304 225mmx275mmx300mm	Pcs	5	5					
893	02-1018-2996	C.I Bush 220mx260mx300m(52Kgs)	Pcs	3	3					
894	02-1018-3010	Empty Gas Cylinder	Nos	20	20					
895	02-1018-3016	Copper Sheet 2mm	Kgs	75	75					
896	02-1018-3066	Stainless Steel Bush Sus-304 b) 65x83x160mm	Nos	88	88					
897	02-1018-3079	S.S. IMPELLER Size- OD-348mm Shaft Dia-49.5mm No of Vane06(APS)	Nos	4	4					
898	02-1018-3091	Butterfly Valve 4"	Nos	12	12					

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ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/ STOCK VERIFIER .

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899	02-1018-3108	Medium Corbon Steel Bar Size-63mmx1450mm	Kgs	6	6					
900	02-1018-3109	Medium Corbone Steel Bar Size-63mmx1440mm	Kgs	23	23					
901	02-1018-3112	Manuf:ofSPACERForIntakeWaterTrans:PUMPSize-ID=350mmOD=515mm(APS	Nos	2	2					
902	02-1018-3118	Oil Seal 68x54x10	Pcs	4	4					
903	02-1018-3126	M.S Elbow 90o (Welded Type) Size=10 Innerdia Wall Thicness06mm	Nos	19	19					
904	02-1018-3128	Enamel Wire SWG-28 Modren	Kgs	69	69					
905	02-1018-3134	Bolt M8x25mm 300Gram	Kgs	244	244					
906	02-1018-3148	Suction Stage Impeller 200 (65x82)	Nos	14	14					
907	02-1018-3153	PVC Ball Valve Flange Type Size=80mm	Nos	4	4					
908	02-1018-3155	M.S Union 1"	Pcs	7	7					
909	02-1018-3160	Manufacturing of Impeller(Cast Iron)OD-258mmShaftBore30mm(APS)	Nos	1	1					
910	02-1018-3162	Manufac.oFIntermediateBearingOd-350mm16mmSaportFor(W.T.P)CastIron	Nos	3	3					
911	02-1018-3164	Bronze Impeller Part#230	Nos	6	6					
912	02-1018-3166	O-Ring Part#4121	Nos	12	12					
913	02-1018-3167	O-Ring Part#4122	Nos	8	8					
914	02-1018-3170	Mechanical Seal (Complete)Part#433	Nos	3	3					
915	02-1018-3171	Shaft Sleeve Part-523	Nos	1	1					
916	02-1018-3173	Stage Casing Part#108	Nos	4	4					
917	02-1018-3174	Final Stage Diffuser Part#171	Nos	2	2					
918	02-1018-3176	Medium Corbon Steel Shaft Size-80mmx2000mm	Kgs	2	2					
919	02-1018-3193	Non-Return Valve Gate Support Material Cast Iron a)size-550 mm	Nos	3	3					
920	02-1018-3197	CondensatePumpType-7LDTNa)UBrg80x100x65mmLBrg55x70x75mmG80x100	Nos	6	6					
921	02-1018-3199	Gland Pusher Size-50x160x40mm (Material Cast Iron)	Kgs	6	6					
922	02-1018-3213	M.S Square Bar 1/2x1/2	Kgs	5	5					
923	02-1018-3215	M.S Square Bar 3/4 x 3/4	Kgs	42	42					
924	02-1018-3216	S.S Square Bar 3/8 x 3/8	Kgs	20	20					
925	02-1018-3217	S.S Square Bar 1/2x1/2	Kgs	25	25					
926	02-1018-3218	S.S Square Bar 5/8 x 5/8	Nos	23	23					
927	02-1018-3219	S.S Square Bar 3/4 x3/4	Kgs	11	11					
928	02-1018-3225	V-Belt B:74	Nos	24	24					
929	02-1018-3244	Manufac:of Suction Bell forHousing size-550x230x260mm intkeW/Pump	Nos	4	4					
930	02-1018-3245	Impeller Out side Diameter155mm Thick=55mm No of Vans06(APS)	Nos	4	4					
931	02-1018-3248	End Lower of Motor Size-40x240x40mm (Material Cast Iron)	Nos	4	4					
932	02-1018-3252	StageDifuserOfCondonatePump OverAllSize-421x320x110mm	Nos	14	14					
933	02-1018-3254	Manu:OFUnitOil Purifier ElementCottonFilterBages.610x460x32mm	Nos	34	34					
934	02-1018-3292	M.S T-Type Bolt with Nut Size-20x120mm (Half Threaded)	Nos	116	116					
935	02-1018-3331	Cast Iron Bush Size-345x420x300mm	Nos	1	1					
936	02-1018-3333	Taflon Bar Size-110mm	Kgs	12	12					
937	02-1018-3334	Cast Iron Bush Size-45x80x280mm	Nos	9	9					
938	02-1018-3340	Stainless Steel Bar (H) 22mm	Kgs	24	24					
939	02-1018-3360	ImpellerDoubleEntryDynamicallyBalancedMaterialC-IronSize-260x268	Nos	6	6					
940	02-1018-3362	MAIN CYLENDER A(i) HYDM_YA500 Part-Y-Shapd Seal RingOD0.105ID485	Nos	6	6					
941	02-1018-3363	MAIN CYLENDER B(i)HYDM-0 355x8.6 PartD-ShapedSelRingOD0.84ID337.8	Nos	3	3					
942	02-1018-3364	Bii)DieM.CorbonSteelC(i)HYDM-04430x8.6DShapedSealRingOD430ID412.8	Nos	3	3					
943	02-1018-3365	Di)HYDM-0 520x8.6 Seal RingM.Oil Proof Rubber OD-0.055 ID502.8	Nos	3	3					
944	02-1018-3366	Dii)DieMCorbonSteel Ei)HYDM-7A465Seal Ring M-RubberOD465 ID450	Nos	3	3					
945	02-1018-3367	Eii)DieMCorbonSteel Fi)HYDM-0 35x3.1Seal Ring Oil ProfOD35 ID28.8	Nos	4	4					
946	02-1018-3368	Fii)MCorbonSteel Gi)HYDM-0 50x3.1 Seal Ring M.Oil ProofOD50ID43.8	Nos	4	4					
947	02-1018-3369	LIFTOUT CYLD.Ai)HYDN-YA192YShepd Seal Ring OD192ID0.08+180	Nos	4	4					
948	02-1018-3370	LIFTOUT CYLD.Bi)HYDM-YA220YShepdSeal Ring OD0.015-0.0195 220ID20	Nos	8	8					
949	02-1018-3372	Cii)MCarbonSteelDi)HYDM-0170x5.7O-Shaped Seal Ring OD170 ID160	Nos	5	5					
950	02-1018-3373	Dii)MCorbonSteel Ei)HYDM-0260x5.7 OShaedSealRing OD0.022 ID0.022	Nos	6	6					
951	02-1018-3374	Fi)HYDM-0 40x3.1 O-Shaped Seal Ring Oil Proof rubber OD40 ID33.8	Nos	4	4					
952	02-1018-3375	S.S.Bar Sus-304 Square Min Lenght500mm Size-a-1/4x3/8"(6.35mm)	Kgs	4	4					
953	02-1018-3376	S.S.Bar Sus-304 Square Min Lenght500mm Size-b-3/8x3/8"(9.52mm)	Kgs	4	4					
954	02-1018-3377	S.S.Bar Sus-304 Square Min Lenght500mm Size-c-1/2x1/2"(12.7mm)	Kgs	20	20					
955	02-1018-3409	Mild Steel Bar Size-40mm (Pes03)	Kgs	70	70					
956	02-1018-3426	GearSetForOilSeparaterUPGearBoxA85/20x30mmB25.5/12x296C80/30.5x17	Set	1	1					
957	02-1018-3428	Auto Lamp Bulb 12V 25W Pin Type	Nos	40	40					
958	02-1018-3431	Seal Kit PH#H90205KH(1129450)	Nos	7	7					

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959	02-1018-3432	Seal Kit PH#H9600 SKH(1197773)	Nos	7	7					
960	02-1018-3433	Cast Iron bar (Unfinished) Size 50x200mm)	Nos	4	4					
961	02-1018-3435	Cast Iron bar (Unfinished)IIDxODxL F)Size-125x200x300mm	Nos	3	3					
962	02-1018-3436	Cast Iron bar (Unfinished)IIDxODxL F)Size-225x290x300mm	Nos	3	3					
963	02-1018-3440	Stainless Steel Bush Size-b:-id-250xod-295Lenght-300mm	Nos	3	3					
964	02-1018-3441	Stainless Steel Bush Size-c)-id-230xod-270Lenght-300mm	Nos	3	3					
965	02-1018-3495	Lock Washer Size-19mm	Nos	4	4					
966	02-1018-3500	Stainless Steel Bar (Square) F. 1"x1"	Kgs	25	25					
967	02-1018-3505	Medium Carbon Steel bar size-100x1000mm	Nos	3	3					
968	02-1018-3506	Medium Carbon Steel Bar Size-63x2120mm	Nos	6	6					
969	02-1018-3510	M.S Sheet Plate Size-600x650x25mm	Kgs	3	3					
970	02-1018-3514	Star Size-170x130x45mm (Material Cast Iron)	Nos	4	4					
971	02-1018-3521	PVC Check Valve With Mish Size-2 1/2" Seal Position Pvc Ball	Nos	1	1					
972	02-1018-3548	S.S Flange Inner-90mmOuter-188mmHole-04HoleSize19mmSUS-316TK32mm	Nos	3	3					
973	02-1018-3557	Cast Iron Bush Size-45x85x275mm	Nos	2	2					
974	02-1018-3580	G.I Nut Bolts & Washer M12 Size- 12x30mm	Kgs	139	139					
975	02-1018-3585	Stuffing Box Material Cast Iron Bore-174mm Flange Dia-260x213mm	Nos	1	1					
976	02-1018-3586	Gland Pausher Material Cast Iron OD1-175mmOD2-105mm Hold Dia-21m	Nos	2	2					
977	02-1018-3599	SSU-Clamp With nut Size-90x14mm material SUS-316	Nos	10	10					
978	02-1018-3604	Cast iron Bush Unfinished Size-C-235x325x340mm	Nos	3	3					
979	02-1018-3605	Cast Iron Bush Unfinisfhed D-315x380x425mm	Nos	2	2					
980	02-1018-3606	Cast Iron Bush Unfinished E-400x450x480mm	Nos	2	2					
981	02-1018-3608	Cast Iron Coupling Size 50x175x110mm	Set	7	7					
982	02-1018-3613	Cast Iron Bus Size-A-400x560x50mm	Nos	2	2					
983	02-1018-3615	Cast Iron Bus Size-A-300x565x325mm	Nos	2	2					
984	02-1018-3617	Manuf:OfSuctionStrainer630x530x400mmForIntakWaterPumpFlange	Nos	1	1					
985	02-1018-3623	Rubber Oil Seal Size-30x52x13mm	Nos	12	12					
986	02-1018-3626	Rubber Oil Seal Size-39x68x9mm (local)	Nos	18	18					
987	02-1018-3631	S.S Nut & Bolt (With Spring Washer)Size-M12x35mm	Kgs	442	442					
988	02-1018-3632	S.S Nut & Bolt (With Spring Washer)Size-M8x12mm	Nos	200	200					
989	02-1018-3635	V-Belt B-67 Category- B Rubber itom V-belt	Nos	24	24					
990	02-1018-3636	cast Iron coupling Size-60x180x80mm (2 Pcs Set)	Set	2	2					
991	02-1018-3639	Rubber Lined Diaphragm Valve With Flange 50mmType Manual Operate	Nos	1	1					
992	02-1018-3645	JointCouplingSize165x46x25mmWithKeyOf8mm MaterilCast Iron (APS)	Set	6	6					
993	02-1018-3671	Cast Iron Bush Size-340x370x300mm	Nos	3	3					
994	02-1018-3676	NBR "O" Ring 99.4x3.1mm	Nos	6	6					
995	02-1018-3677	NBR "O" Ring 149.3x5.7mm	Nos	10	10					
996	02-1018-3678	NBR "O" Ring 8.8x1.9mm	Nos	12	12					
997	02-1018-3679	NBR "O" Ring 174.3x5.7mm	Nos	12	12					
998	02-1018-3680	NBR "O" Ring 289.3x5.7mm	Nos	12	12					
999	02-1018-3681	NBR "O" Ring 239.3x5.7mm	Nos	9	9					
1000	02-1018-3682	Viton "O" Ring 209.3x5.7mm	Nos	6	6					
1001	02-1018-3684	Viton "O" Ring 64.4x3.1mm	Nos	8	8					
1002	02-1018-3685	EPDM "O" Ring 199.3x5.7mm	Nos	11	11					
1003	02-1018-3686	EPDM "O" Ring 144.6x5.7mm	Nos	8	8					
1004	02-1018-3695	Suction Strainer OutSide550Inside430Thik.430lenth400sus.304	Nos	3	3					
1005	02-1018-3697	Hot Rolled Steel Sheet Size-2500x6000x12/1220x2440x12mm	Kgs	1,650	1,650					
1006	02-1018-3699	S.S Handle Ball Valve Threaded Size-2"	Nos	19	19					
1007	02-1018-3700	PVC Pipe 52mm Out Dia-60.3mm Thickness-4mm	Rft	245	245					
1008	02-1018-3701	PVC Elbow 50mm Angle-90 Thickness.04mm Out Dia-58mm	Nos	37	37					
1009	02-1018-3703	PVC Tee 50mm Out Dia-58mm Thickness.04mm	Nos	94	94					
1010	02-1018-3708	M.S Elbow Sch 40 Size-6"x6"x6"	Nos	2	2					
1011	02-1018-3709	M.S Tee Sch 40 Size-6"x8"x8"	Nos	3	3					
1012	02-1018-3713	Stainless Steel bush Sus 304 Size-58x74x185mm	Nos	6	6					
1013	02-1018-3714	Stainless Steel bush Sus 304 Size-58x74x170mm	Nos	17	17					
1014	02-1018-3718	Gear Set A-Helical Gear-85/20x30mm b-Wron Shaft24.5/12x295mm	Set	1	1					
1015	02-1018-3722	Cast Iron Pully	Nos	1	1					
1016	02-1018-3723	Aluminium Fan size-355mm id-55mm lenght-91 No of vans-13mm	Nos	1	1					
1017	02-1018-3734	Spiral Wounded Gaskets Graphite Filled Size-65x90x4.5mm	Nos	22	22					
1018	02-1018-3738	Manuf:ManHoleRingOuter-623innr-474thik-13/22hole-16holesize-21.5m	Nos	5	5					

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1019	02-1018-3755	Manuf.Casting S.S Coupling Out-319-Inn-106-L-78Thik-29BushHole-6	Nos	6	6					
1020	02-1018-3756	Manuf.Casting S.SCouplingOut-319-Inn-109.40-L-78Thik-29BushHole-6	Nos	6	6					
1021	02-1018-3760	PlanetaryCycloidOilXEDIL(Wheel Reducer Plate)O-254In-113Thk.16mm	Set	4	4					
1022	02-1018-3763	Repair Kit foe Thermal Valve Part#014512 Kit No.001168	Nos	2	2					
1023	02-1018-3764	Fluid Filter F.G Key No.18 Part-250025-526(Compresor Coling)	Nos	2	2					
1024	02-1018-3766	Repair Kit For Fluid Stop Valve Part#016741 Kit No.001684	Nos	3	3					
1025	02-1018-3767	Repair Kit For Coupling Flex Master 2 1/2"(STD)KEY#42 Part#040648	Nos	1	1					
1026	02-1018-3770	Gauge Temperature 2" Key#15 Part#042582	Nos	1	1					
1027	02-1018-3783	M.SSeamlessR.LinedCrossJointWithFlangePg10Dg100/dg25(F161IISH020	Nos	3	3					
1028	02-1018-3785	M.S Seamlees Rubber Lined pipewith Flange 180x15x16(77x87x3.5)	Nos	4	4					
1029	02-1018-3786	M.S Rubberized reducer 148x115(35x20xx20x16)	Nos	4	4					
1030	02-1018-3799	Fan Bass Part No.3 L-50mm Outer-150 No of Hole 3	Nos	3	3					
1031	02-1018-3803	M.S Seamless Rubber Lined Pipe L=160 16x4x15x77x70 pipedia87(3.5)	Nos	6	6					
1032	02-1018-3804	M.S Rubberized lenghtTypeflange200x70PipeDia87(3.5)180x16x15x477x	Nos	2	2					
1033	02-1018-3805	M.SRubberized Length finge Type 230x70x89 180x15x15x16x4x70	Nos	5	5					
1034	02-1018-3806	M.SSeamless Rubberized Length type Flange 250x89x70mm	Nos	10	10					
1035	02-1018-3807	M.S Rubberized lenght type Flange Size-70x270x89mm	Nos	2	2					
1036	02-1018-3808	M.SRubberized Lenght type Flange Size-420x89x70mm	Nos	5	5					
1037	02-1018-3809	M.S Seamless Rubber Lined Pipe430x180x15x16x4x77x70PipeDia87(3.5)	Nos	4	4					
1038	02-1018-3810	M.S Seamless Rubber Lined Pipe530x180x15x16x4x77PipeDia87Tik(3.5)	Nos	3	3					
1039	02-1018-3811	M.S Seamless Rubber Lined Pipe560x180x15x16x4x77x70PipeDia87(3.5)	Nos	4	4					
1040	02-1018-3812	M.S Seamless Rubber LinedPipe1630x180x15x16x4x77x70PipeDia87(3.5)	Nos	5	5					
1041	02-1018-3814	M.SSeamlessR-Lined Elbow90oFlanges Size-75mm (89x70mm)Type180	Nos	8	8					
1042	02-1018-3816	M.SSeamlessR-Lined PipeWithFlangeL1365180x16x15x477x70xPipDia(3.5	Nos	6	6					
1043	02-1018-3817	MSRubberLinePipe&Flangedis1980Outer133Ling119WalTik4Flng16x240x20	Nos	6	6					
1044	02-1018-3818	MSRubberLinePipe&Flange1930Outer133Ling119WallTik4Ling3(Pg10Dg125	Nos	29	29					
1045	02-1018-3819	MSRubberLinePipe&Flange1780Outer133Ling119WallTik4Ling3(Pg10Dg125	Nos	18	18					
1046	02-1018-3821	MSSeamlessRubberLinedElbowAngle90o75x63x3x3Flang190x15mm	Nos	9	9					
1047	02-1018-3822	MSSeamless RubberLined Elbow Angle90o133x117x5x3Flang240x20mm	Nos	4	4					
1048	02-1018-3848	Cooling Tower Fan Blade Clamps Dia-130Part#2DWG-20Model-L80A	Set	13	13					
1049	02-1018-3865	Mufac.Of Speed reducer Gear Lube Oil Pump C.I Gear Steel (A.P.S)	Set	4	4					
1050	02-1018-3904	Spare Pars Demi Water Pump od-188mm bore-32(Bore-45)Bore70L-132	Set	1	1					
1051	02-1018-3905	Spare Parts Demi PUMp Unit1 OD-160 Bore-25(Bore-38mm) L-18	Set	1	1					
1052	02-1018-3921	Centrifugal Close Type Impeller65Y-100x20000(Close Wise Direction	Nos	3	3					
1053	02-1018-3922	Centrifugal Close Type Impeller 65-100x2.000(Anti Clock Wise)	Nos	2	2					
1054	02-1018-3927	Shaft Upper 75x3265	Nos	3	3					
1055	02-1018-3929	Manuf.of Zinc Plate Outer Dia-200 Theck:Of Plate 15mm Hole-16mm	Nos	39	39					
1056	02-1018-3933	Manuf.Chennel Cover Outer-395mm Innr-300mm Hole-16Nos W/Flange	Nos	1	1					
1057	02-1018-3934	Crank Shaft 100mm	Nos	1	1					
1058	02-1018-3939	a)Pump Side Coupling180x34.50 b)Motor Side Coupling 180x59.5	Set	2	2					
1059	02-1018-3950	Manufacturing of Gear Coupling 150/105x11mm&90/60x62mm(18x85x62mm	Set	3	3					
1060	02-1018-3957	M.S Pipe (ERW) Size- OD-10" SCH-40	Rft	40	40					
1061	02-1018-3961	On Line Back Washable RotarySize-DxLxT=700x920x05mm(M=Mild Steel)	Nos	1	1					
1062	02-1018-3970	Manuf.of LubricatingPumpCasing O=1.45mm L=90mm(With Seal Ring)	Nos	2	2					
1063	02-1018-3980	Butterfly Valve (Gear Box Type) Size-150mm	Nos	4	4					
1064	02-1018-3981	Butterfly Valve (Gear Box Type) Size-250	Nos	1	1					
1065	02-1018-3991	Disk along with Bradd Seals A-OD-455Width-35 b)OD-435.ID-394mm	Nos	1	1					
1066	02-1018-3996	Mechenical Seal Suction End KSB Item No.433.1	Nos	3	3					
1067	02-1018-3997	Shaft Sleeve KSB Item No.523.3	Nos	2	2					
1068	02-1018-4000	BoilerFeedPumpMiniFlowValvePlugAssembly Dia-61mm bore-42.5L-89.5	Nos	2	2					
1069	02-1018-4012	M.S Elbow 2 1/2" SCH-40	Nos	11	11					
1070	02-1018-4014	M.S Tee Dia 4"x2 1/2 Sch 40	Nos	1	1					
1071	02-1018-4015	Shaft for Condenser Drain Pit Pump Lenght-1640mm diamer-80 Carbon	Nos	1	1					
1072	02-1018-4017	Manuf.of Suction Valve Cover (Size-163x163mm id-145l-141mm	Nos	4	4					
1073	02-1018-4018	Manuf.of Discharge Valve Cover Size-163x163mm od-145 l-141mm	Nos	4	4					
1074	02-1018-4033	S.S Stud With Washer Size-16x45 (Material S.S-304	Nos	1,895	1,895					
1075	02-1018-4039	Mechanical Seal for All Iveilor PumpType-SNH660-R46 UIZ Sr#.96014	Set	16	16					
1076	02-1018-4041	Hot RolledSteelPlate(Imported)Size2500x6000x8mBoilerGrade70HR0355	Kgs	4,898	4,898					
1077	02-1018-4048	Brass Bar Hexaginol Size-C-45mm	Kgs	53	53					
1078	02-1018-4049	Brass Bar Hexaginol Size-D.50mm	Kgs	24	24					

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1079	02-1018-4050	Brass Bar Hexaginol Size-e)60mm	Kgs	68	68					
1080	02-1018-4053	Brass Bar (Round) Size-c)35mm	Kgs	61	61					
1081	02-1018-4066	Manuf.Centre Bod with Nut OD-20mm Lenght-240mm Naylon Ring SS-304	Nos	100	100					
1082	02-1018-4067	Manuf.Pin Bolt with Nut 16mm Along With Nylon Ring (U#2&4)S.S-304	Nos	72	72					
1083	02-1018-4071	Manuf.of 1st Stege Packing Ring Size-214/204x02mm (Material Coper	Nos	48	48					
1084	02-1018-4072	Gland Bush for B.C.W PumpLenght:155mm hick-55mm Diamater-105mm	nOS	6	6					
1085	02-1018-4073	Neck Bush for B.C.W Pump Dia-95mm 61mm Material Cast Iron	Nos	12	12					
1086	02-1018-4081	S.SNut Bolt With Washer 6x60 SUS-316	Kgs	1	1					
1087	02-1018-4093	Manuf.Casting & Maduling of Channel Cover 345x250x170m 12Nos	Nos	1	1					
1088	02-1018-4119	O Ring Blue 150x6	Nos	8	8					
1089	02-1018-4129	Elbow DN- 125 mm Material Mild Steel (Sahdule -40)	Nos	28	28					
1090	02-1018-4133	Y-jet AutomizerOD50xTic32mmSteemNzl2.7OILHole2.05BakPlat58x25x7x4	Nos	10	10					
1091	02-1018-4135	Manuf.Upper Shaft OD56Lenght1440mm Material Corbin Steel	Nos	3	3					
1092	02-1018-4136	Manuf.Intermidate Shaft OD-56mm Lenght-1430 Material Corbon Steel	Nos	5	5					
1093	02-1018-4137	Manuf.Lower Shaft OD-58mm Lenght-2130mm Matrial Carbon Steel	Nos	2	2					
1094	02-1018-4139	Steel Plate Boiler Grade 70/HR355 Size-1220x2440x10mm	Kgs	1,000	1,000					
1095	02-1018-4142	Mfg.Casing Machining Grinding of Two Stroke Crank Shaft Size-860	Nos	2	2					
1096	02-1018-4143	Mfg.of Cact Iron Crass HeadCasting Machining of Ist.Air Compresor	Nos	4	4					
1097	02-1018-4144	Mfg.Machining and Grinding of gujanpn Size-od-40mm Lenght-104mm	Nos	3	3					
1098	02-1018-4145	Mfg.Casting Maching and Aligned for Connecting Rod Bearing -370mm	Nos	4	4					
1099	02-1018-4146	White Metal Bearing Piece Size-72x66xmm	Set	4	4					
1100	02-1018-4147	Gland Sleeve of Feed Water Pump Dia-75mmL-225 Bore-50mm(MCI)	Set	3	3					
1101	02-1018-4153	M.S(Seamless Rubberized Lenght Flange Type-L=598mmOD-57xID-50mm	Nos	4	4					
1102	02-1018-4154	M.S(Seamless Rubberized LenghtFlangeType-L=743mmOD-57xID-50mm(3.5	Nos	10	10					
1103	02-1018-4155	M.S(Seamless Rubberized Lenght Flange Type-L=768mmOD-57xID-50mm	Nos	3	3					
1104	02-1018-4156	M.S(Seamless Rubberized Lenght Flange Type-L=780mmOD-57xID-50mm	Nos	4	4					
1105	02-1018-4157	M.S(Seamless Rubberized LenghtFlangeType-L=1215mmOD-57xID-50mm	Nos	6	6					
1106	02-1018-4158	M.S(Seamless Rubberized LenghtFlangeType-L=1715mmOD-57xID-50mm	Nos	6	6					
1107	02-1018-4159	M.S(Seamless Rubberized Lenght Flange Type-L=580mmOD-57xID-50mm	Nos	2	2					
1108	02-1018-4160	M.S(Seamless Rubberized Lenght Flange Type-L=500mmOD-57xID-50mm	Nos	6	6					
1109	02-1018-4161	M.S(Seamless Rubberized Lenght Flange Type-L=1172mmOD-57xID-50mm	Nos	10	10					
1110	02-1018-4162	M.S(Seamless Rubberized Lenght Flange Type-L=980mmOD-57xID-50mm	Nos	6	6					
1111	02-1018-4163	M.S(Seamless Rubberized Lenght Flange Type-L=990mmOD-57xID-50mm	Nos	3	3					
1112	02-1018-4164	M.S(Seamless Rubberized Lenght Flange Type-L=1338mmOD-57xID-50mm	Nos	6	6					
1113	02-1018-4165	M.S(Seamless Rubberized Elbow Flange Type-L=260mmOD-57xID-50mm	Nos	26	26					
1114	02-1018-4166	M.S(Seamless Rubberized Tee Flange Type-OD-108xID-100mm thick-4mm	Nos	2	2					
1115	02-1018-4168	M.S(SeamlessRubberizedLenghtFlangeType-L=875mmOD-133xID-125mmT-4m	Nos	4	4					
1116	02-1018-4169	M.S(SeamlessRubberizedLenghtFlangeType-L=1075mmOD-133xID-125mmT4n	Nos	9	9					
1117	02-1018-4170	M.S(SeamlessRubberizedLenghtFlangeType-L=1740mmOD-133xID-125mmT4n	Nos	23	23					
1118	02-1018-4171	M.S(SeamlessRubberizedLenghtFlangeType-L=1700mmOD-133xID-125mmT4n	Nos	2	2					
1119	02-1018-4180	SS Ball Valve Kitz DN-25mm Flange Type Sus-316	Nos	13	13					
1120	02-1018-4181	S.S Corgated Pipe With Nipple on BothLenght-32"Thickness-4mm	Nos	27	27					
1121	02-1018-4191	Spiral Bevel Gear Set a)Dia111mmx32mm b)113.5x38mm Mat.AISI-8620	Set	5	5					
1122	02-1018-4192	S.S Corragated Pipe With Brading Lenght-830mm OD-50 Nipple-45mm	Nos	27	27					
1123	02-1018-4208	Blade Upper Clamp E6063 DWG-TK1011F1A12993 Clalm Width-225mm	Nos	6	6					
1124	02-1018-4210	Brass Bar Size-100mm	Kgs	67	67					
1125	02-1018-4214	Air registor Rod Lenght-1635 Threed 20mm Matrial (CS) dia-25mm	Nos	16	16					
1126	02-1018-4217	Manuf.Welding Machining Size-14x75mm S-S-316 Diameter-4" Complete	Nos	3	3					
1127	02-1018-4222	S.S Sheet Size-1220x2440x2.00MM Material-SUS-304	Kg	3,555	3,555					
1128	02-1018-4226	MS Elbow DIA 12" 9" SCH-40	Nos	1	1					
1129	02-1018-4230	SparePartsForSullairAirCompressor(HubCoupling(60HP)P=250018-006	Nos	1	1					
1130	02-1018-4232	AirCompressorValveDifferentialPress.406929#22SparePartsForSullair	Nos	1	1					
1131	02-1018-4233	Copper Pecking Ring for S/V&D/V for 1st Stage Size-152x166mm	Nos	24	24					
1132	02-1018-4234	Copper Pecking Ring for S/V&D/V for 2nd Stage Size-120x130mm	Nos	48	48					
1133	02-1018-4235	1st Stage Piston Pressure Ring 256x236 Thik.10mm Carbon Teflon	Nos	12	12					
1134	02-1018-4236	1st Stage Piston Backup Ring 256x236Thic-18mm Coarbon Teflon	Nos	6	6					
1135	02-1018-4237	2nd Stage Piston Pressure Ring 150x130Thoc.8mm coarbon Teflon	Nos	12	12					
1136	02-1018-4238	2nd Stage Piston Backup Ring 150x130Thic.18mm Carbon Teflon	Nos	6	6					
1137	02-1018-4239	Piston Ring 130x110xThic.10mm Carbon Teflon	Nos	6	6					
1138	02-1018-4240	Rider Ring 130x110mm Thic-10mm Carbon Teflon	Nos	6	6					

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1139	02-1018-4241	Pressure Ring(300x260x18mm/Rider Ring(300x276x36mm Carbon Teflon	Set	3	3					
1140	02-1018-4243	Spare Parts of Yard Pit-Pumps U#2-3&4 Graphite Bush-80x66.5mmTk95	Nos	6	6					
1141	02-1018-4264	S.S Pipe 8"	Fit	20	20				Foc	
1142	02-1018-4267	Revoling Roller of Soot Blower Size-188x166x185mm	Sets	7	7					
1143	02-1018-4272	FRP/RTAP Epoxy Uinyl/Ester/UINYL ESTER PIPE Size-300mm Sch-40	MTR	144	144					
1144	02-1018-4273	FRP/RTAP Epoxy Uinyl/Ester/UINYL ESTER Elbow Size-28mm Sch-40	Nos	5	5					
1145	02-1018-4274	FRP/RTAP Epoxy Uinyl/Ester/UINYL ESTER Elbow90o Size-250mm Sch-40	Nos	2	2					
1146	02-1018-4276	FRP/RTAPEpoxyUinyl/Ester/UINYLESTER RiouterTeeS-250x5200mm Sch-40	Nos	2	2					
1147	02-1018-4278	Vinlye Flange 12"	Nos	10	10				Foc	
1148	02-1018-4293	Bowl for Oil Posiner Dia-07 Inn-7" thik-1/2	Nos	1	1					
1149	02-1018-4294	BoilerMainHoleCooleer2ndSuperHeater OD-590ID-443 Thik-30Hole-02No	Nos	2	2					
1150	02-1018-4295	SPE Cooler 404 140x128x460/200x19/115x94x95x6.5/76x68x320mm	Set	9	9					
1151	02-1018-4296	Complete Shaft Assembly Outer-162mm Thick-4mm dia @ Both Side-315	Nos	2	2					
1152	02-1018-4297	PVC Reducer, Flange Type-100x80mm"	Nos	10	10					
1153	02-1018-4298	Butterfly Valve (Gear Operated) Size-200mm	Nos	2	2					
1154	02-1018-4300	Non Return Valve Flange Type Size-3" (Mat:Cast Iron)	Nos	6	6					
1155	02-1018-4314	Non Return Valve Flange Type Size-2" Material Cost Iron	Nos	1	1					
1156	02-1018-4315	Masnuf.Of Cost Iron Bushes 90x98x280mm	Nos	8	8					
1157	02-1018-4317	Manuf.of Cast Iron Bushes Size-75x35x150mm	Nos	9	9					
1158	02-1018-4323	Asbestos Rope Size-25mm	Kgs	290	290					
1159	02-1018-4333	Pall Filter Element Part#P018080-05D61B	Nos	3	3					
1160	02-1018-4334	Pall Filter Elemnt PN#P031045-05S61	Nos	5	5					
1161	02-1018-4335	Pall Filter Element PN#P031045-2D613	Nos	6	6					
1162	02-1018-4336	Pall Filter Element PN#P031045-2561	Nos	7	7					
1163	02-1018-4346	Coupling Assy.1/8x1/8 NPT Slimline 12K MAWP P#77201001	Nos	8	8					
1164	02-1018-4347	Stinger 1/8 NPTx24 SS 15K P#77515051	Nos	3	3					
1165	02-1018-4348	Blank AFNPT2 Nozzle 1/8 NPT (1A,2B,4C.4D)P#77103018	Nos	6	6					
1166	02-1018-4349	Mfg.of Coupler Bush of Condenset Pump Size-80/60x135mm	Nos	5	5					
1167	02-1018-4350	Mfg.of Shaft for Booster Pump OF BFP Sise-50x60mm Lenght-1275	Nos	4	4					
1168	02-1018-4352	Cast IronMainHoleCoverForFurnanceOD-620mm OD-2, 510mm Face-55mm	Nos	6	6					
1169	02-1018-4354	Gland Hosing for Soot Blower M.S Bush Dia.90m Bore-60mm Lght=355m	Nos	10	10					
1170	02-1018-4359	Mfg.Lubricant Pipe for Intake Water Transfer Pump1303x102x95mm	Nos	7	7					
1171	02-1018-4361	Hydralic Coupling Input Shaft OD-46mm H-Gear-40mmx36mm(6x3x16mm)	Nos	2	2					
1172	02-1018-4364	Manuf.of Raw Water Pump Howsing OD-420Flange445x34x80	Nos	1	1					
1173	02-1018-4368	Solenoid Valve Type-QY 23 D-Z) 2 Possition 3way Valve	Nos	3	3					
1174	02-1018-4369	RotaryPartOfMachanicalSealOfBoilerFedPump Size-120.70x98.70x20mm	Nos	7	7					
1175	02-1018-4378	Steel Srtip Size-8x2x1000mm (32 Nos=32000)mm Part-55.202.053	Nos	22	22					
1176	02-1018-4379	PVC Socket Size-50mm	Nos	50	50					
1177	02-1018-4389	Manuf.Bealancing strtp of SUS-304 Gear Box Size-380x60x5mm Dia22m	Nos	48	48					
1178	02-1018-4393	Manuf.Imperler for Condensor Drain Pump OT-285mm Le-110mm	Nos	7	7					
1179	02-1018-4396	M.Rubber Lined Elbow Flange Type Angle 90Co od-108 id-100mm 4mm	Nos	7	7					
1180	02-1018-4397	M.S Rubber Lined Lenght Flange Type-L-1380mm od-89mm id-70mm 4mm	Nos	3	3					
1181	02-1018-4398	M.S Rubberlized Lenght Flange Type L-1365 od-89mm id-70mm l-4mm	Nos	6	6					
1182	02-1018-4399	M.S Rubberlized Junction Tee PG.10 dg.100/140 OD.108 ID.100mm	Nos	3	3					
1183	02-1018-4400	M.S Rubberlized Junction Tee PG.10 dg.100/25L=430OD-108ID-100 T-4	Nos	3	3					
1184	02-1018-4401	M.S Rubberlized Lenght Flange Tyep-OD=133ID125 Hole Size-16mm	Nos	9	9					
1185	02-1018-4402	S.S Bolt With Lock Nut Nylone Net SuS-304 24x110mm	Nos	130	130					
1186	02-1018-4409	Gear Sleeve Size-OD-83mm ID=68mm L=48mm No.of Teeth=44	Nos	1	1					
1187	02-1018-4411	1st sanction valve Size-OD-134mm Width-42mm No of Plate 3 U#2-3-4	Nos	9	9					
1188	02-1018-4412	1st Stage Discharge Valve Size-OD-134mm Width=42mm no of Plate 3	Set	9	9					
1189	02-1018-4413	2nd Stage Sunction Valve Size-OD-164mm width-42mm Plate No.3	Nos	9	9					
1190	02-1018-4414	2ns Stage Discharge Valve OD-164 width-42mm Plate No.04 2-3-4	Nos	9	9					
1191	02-1018-4416	Manuf.of Metallic bellowDia-1660/1420x300mmSleeve-1398/1392x200mm	Nos	1	1					
1192	02-1018-4419	Manuf.of Grinding Pins for Head Szie-od-55xL120mm	Nos	6	6					
1193	02-1018-4423	Coupling Pin Bolt Size-M16x65mm Material:SUS-304	Nos	179	179					
1194	02-1018-4424	Manuf.Carbon Steel Generator Rotor(REi.Ring Lock RemovingDevice)	Nos	1	1					
1195	02-1018-4426	Manf.of Flexible Coupling for Sealing Pump size-110/25x15mm	Set	3	3					
1196	02-1018-4427	Manf.of Flexible Coupling for jacking Oil Pump Size-120/30x12mm	Set	4	4					
1197	02-1018-4428	Manf.of FlexibleCouplingForCondonserDrain Pit Pump dia-200/50x25m	Set	3	3					
1198	02-1018-4429	Manf.of Flexible Coupling for BCW Pump Dia.220/35x40mm	Set	3	3					

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1199	02-1018-4430	Manf.of Flexible Coupling for Turner Gear Dia-300/50x57mm	Set	2	2					
1200	02-1018-4457	Hydrolic Coupling MainLubeOilPumpShaftDia85mmSize-45mm(4x8x25mmm)	Nos	1	1					
1201	02-1018-4458	Air Seal With Spring Size-OD-70xID-38xT12mm (03 Pieces)	Nos	22	22					
1202	02-1018-4464	Teflon Bush 40x72x57mm	Nos	26	26					
1203	02-1018-4465	Cast Iron Sleeve od-65mm More-55mm lenght=160mm	Nos	2	2					
1204	02-1018-4466	Lamitreon Ring 90x65x25mm	Nos	8	8					
1205	02-1018-4471	Piston 1st Stage Size-260x70mm (Material Aluminium)	Nos	2	2					
1206	02-1018-4472	Piston 2nd Stage Size-160x70mm(Material Aluminium)	Nos	2	2					
1207	02-1018-4474	Manuf:Casting & Machaning for Throst ShoeOD160mm ID141mm Bore-80	Nos	6	6					
1208	02-1018-4478	Heater Drain Pump Shaft Size-dia-80mm Lenght=1060 Bearing dia-70m	Nos	2	2					
1209	02-1018-4479	Bearing Nut ID-70mm Material Corbon Steel	Nos	5	5					
1210	02-1018-4480	Packing Sleave Size-id-Front-55mmID-Impeller45mmOD-70mmLenth=165m	Nos	4	4					
1211	02-1018-4485	Mech.Seal Spare Kit Boiler Feed Pump SS-316 Dwg-MS 73439-1	Set	3	3					
1212	02-1018-4490	M.S Rubberlized Lenght Tape Size=100x1440mm SCH-40	Nos	4	4					
1213	02-1018-4492	Manuf.Check Nut Motor Side Size-OD-217mmThik-35mm Material	Nos	3	3					
1214	02-1018-4493	Manuf.of Cather SUS-304 Size-53mm ID-27x25mm Lenght-53mm	Nos	19	19					
1215	02-1018-4494	Manuf.of nut for impeller SUS-304 OD-90mm id-36mm Lenth-65mm	Nos	2	2					
1216	02-1018-4519	Manuf.of S.S Chek Nut for Impeler Shaft OD-85del-60mm 56mm of WTP	Nos	4	4					
1217	02-1018-4520	Manuf.of MS CheckNutForCouplingSideShaftOD-134Tred-35mmx16(IWTP)	Nos	8	8					
1218	02-1018-4529	Manuf.Filling Pump Insert Part#86 /78-79&80 Bearing Bush#-92	Job	1	1					
1219	02-1018-4532	Manuf.of Duffuser Coil for Steam JEt OD-380mm ID-82mm Lenght-200m	Nos	14	14					
1220	02-1018-4546	Aluminium Coil Cloth Size width 1 meter lenght 2 meter	Roll	9	9					
1221	02-1018-4547	Fiber Ceramic Cloth Size width-1 metr Lenght-8 meter	Roll	25	25					
1222	02-1018-4548	Ceramic Cloth fibber Type-Size-width 75mm Lenght 25meter	Roll	25	25					
1223	02-1018-4559	Star For Diaphram valve Size-100mm OD-164mm Bore-25mm	Nos	9	9					
1224	02-1018-4585	Compressor V-Belt E-5080	Nos	3	3					
1225	02-1018-4586	Brass Bar Dia: 75mm	Kg	50	50					
1226	02-1018-4587	Teflon Bar 25mm x 300mm	No	25	25					
1227	02-1018-4605	Sleeve Size-66.50mm ID-50mmLenght-260mm Key Way Size-16x6	Nos	8	8					
1228	02-1018-4606	Manuf.of S.S Sleeve for Difuser SUS-304 OD-50mmid-40 Lentht=185	Nos	6	6					
1229	02-1018-4607	Mauf.of S.S Gland Bush Material SUS-304 OD-55mm ID-40mmLenght=110	Nos	3	3					
1230	02-1018-4608	Spare Parts of Aalum Transfer Pump SS Seal SUS-16 60x65x62mm	Nos	7	7					
1231	02-1018-4624	Manuf.of S.S Bosh Material SS-316 OD-42mm ID-30mm	Nos	8	8					
1232	02-1018-4625	Manuf.Of Ss Shaft With Check Nut SS-316 OD-25x30x44x40x30x25x16mm	Nos	2	2					
1233	02-1018-4626	Manuf.S.S Impeler SS-316 OD-136mm Bore-25mm	Nos	4	4					
1234	02-1018-4627	Manuf.Casting machining With Blance Fan Flage Dia150mm Lenght-690	Nos	3	3					
1235	02-1018-4634	Impeller for BCW Pump Size-vans-7OD-440Bore-280Shaft-55mmx45mm	Nos	5	5					
1236	02-1018-4635	Flexible Coupling for chilled & chillerSetPlantOD234mm42mm25mm	Set	4	4					
1237	02-1018-4636	Flexible Coupling for Chilled & Chiller SetPlantod210mmx40mmx22mm	Set	2	2					
1238	02-1018-4637	Flexiable Coupling for Shilled&chillerSet Plant OD170mmx26mmx20mm	Set	2	2					
1239	02-1018-4638	Thurst Plate Hydraulic Coupling R-16K OD164ID53.5 Thik-19.8mm	Nos	3	3					
1240	02-1018-4639	Feed Pump Oil CirculatingS.SFlexiblePipeOD131mm Id73mm Thik-15mm	Nos	6	6					
1241	02-1018-4640	Shaft For BCW Pumps Size-1085 Bearing Dia-60mm Shaft-55x45mm	Nos	2	2					
1242	02-1018-4643	Finner Plate for 1st and 2nd Stage Size-dia-122mm Thik-1.5mm	Nos	24	24					
1243	02-1018-4644	Discharge Valve OD-100mm Width-33mm	Nos	2	2					
1244	02-1018-4645	Suction Valve Size-OD-85mm Width-28mm	Nos	4	4					
1245	02-1018-4646	Discharge Valve Size-OD-85mm Width-28mm	Nos	4	4					
1246	02-1018-4647	Cation BeadStainerFocer08nosSmallFicer-32x390mmSus-316 86x15x1065	Nos	2	2					
1247	02-1018-4674	Cation Resin StainerWithFlangeOfDiameter3" WithSS NutBolt14x75mm	Nos	5	5					
1248	02-1018-4676	PVC Reducer Size 100x80mm Thick-4mm	Nos	8	8					
1249	02-1018-4683	Shaft For Pneumatic Valve 100mm Shaft=170mm Upper=32mm Inner=16mm	Nos	11	11					
1250	02-1018-4684	Shaft For Pneumatic Valve 100mm Shaft=170mm Upper=32mm Inner=16mm	Nos	6	6					
1251	02-1018-4688	Cast Iron Suction Valve 2nd stage Size Squire 180x180mm	Nos	4	4					
1252	02-1018-4689	Cast Iron Discharge Valve Cover 2nd Stage Size-180x180mm	Nos	4	4					
1253	02-1018-4690	Manuf.Cast Iron Oil Pump Body Size-204x140x35mm	Nos	4	4					
1254	02-1018-4696	G.I Stud With Nut Size14x65mm	Nos	50	50					
1255	02-1018-4699	S.S Bush Filter Pump 304	Nos	4	4					
1256	02-1018-4707	SpareParts of SouairAirCompressorValveMinimumPressure.Check Key16	Nos	1	1					
1257	02-1018-4708	ValveBlowDown Key27 Spare Parts of SouairAirCompressor1/5hot(10)	Nos	2	2					
1258	02-1018-4709	Carbon Seal ID-44-80mm OD-75mm Thickness=8mm	Nos	100	100					

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1259	02-1018-4710	Oil Defector Lower Depit=18mm Plate OD-200mmLowerThickness 5 to08	Nos	4	4					
1260	02-1018-4720	Plate Heat Exchanger Model-VT20HL Nos Plate:99 Material-AISI-316	Packs	2	2					
1261	02-1018-4722	Screw Compressor Block for Suiair Air Compressor Model-2.74 Key#1	Nos	1	1					
1262	02-1018-4728	Manuf.Upper Shaft OD-75mm Lenght-4200mm Carbon Steel	Nos	2	2					
1263	02-1018-4729	Manuf.Lower Shaft OD-75 Lenght-2920 Carbon Steel	Nos	2	2					
1264	02-1018-4730	Manuf.of Imeller OD-425mm ID-65mm Vans-06Nos S.S-304	Nos	2	2					
1265	02-1018-4731	Manuf.OD-595mm Lenght-500mm cast Iron	Nos	1	1					
1266	02-1018-4732	Manuf.Suction Bell OD-600x470mm Lenght-280mm Cast Iron	Nos	2	2					
1267	02-1018-4733	Manuf.S.S Bush OD-82mm Id-69mm Lenght-150 SOS-304	Nos	1	1					
1268	02-1018-4734	Manuf.S.S Bush OD-82mm ID-69mm Lenght-110mm SUS-304	Nos	1	1					
1269	02-1018-4737	Manuf.S.S Nut for Impeller OD-103mm ID-58MM Lenght-85mm Sus-304	Nos	2	2					
1270	02-1018-4738	Manuf.of Check Nut Motor Side OD-145mm Width-35mm Hole-04nos	Nos	2	2					
1271	02-1018-4739	Manuf.S.S Coupler OD-91mm ID-65mm Lenght-195mm SUS-304	Nos	1	1					
1272	02-1018-4740	Manuf.S.S Catcher OD-65mm IS-37mm Lenght-61mm SUS-304	Nos	2	2					
1273	02-1018-4741	Valve Seat Plate Size-OD-119 ID-16 T-1.00-T-0.8mmand T-0.8mm	Set	15	15					
1274	02-1018-4743	MFG.Casting Machine Sizing Finishing Casing Body 297x65/195x75	Nos	1	1					
1275	02-1018-4744	Mfg.Casting Maching Sizing finishing of Suction Bell 395x100x240	Nos	1	1					
1276	02-1018-4746	Mfg.Pump Shaft for Service Water Pump Size-od-45x Lenght=535	Nos	1	1					
1277	02-1018-4747	MFG.S.S Bush for Service Water Pump Size-OD-45 ID-30 Lenght-135	Nos	1	1					
1278	02-1018-4749	Mfg.of Gland Cup Size-lenght-160mm width-45 OD-70 id-41	Nos	1	1					
1279	02-1018-4750	Cast Iron Impeller Size-200x100x25mm	Nos	1	1					
1280	02-1018-4753	Mfg.of ImpellerPlateGlandPusherImpler Dia Plate408 Plate Bore-73	Nos	1	1					
1281	02-1018-4754	Mfg.of Bearing Body Flange Dia-275 Flange Bore-190 B.Body B.110	Nos	1	1					
1282	02-1018-4772	Modified BushingInnerCasingWithO-Ring(320x240l-18mmColler262)4320	Set	3	3					
1283	02-1018-4773	Feed PumpOilCirculatingS.SFlexiblePipe(151x73x20x50x340x92)SUS304	Nos	6	6					
1284	02-1018-4774	Feed Pump Seling SS Ring Size-OD-76.60-ID60mm T14.70mm Sus-304	Nos	5	5					
1285	02-1018-4775	Shafd With Bold Nut CDWP	Nos	4	4					
1286	02-1018-4776	Grand Bush CDWP	Nos	6	6					
1287	02-1018-4777	Bearing Body CDWP	Nos	4	4					
1288	02-1018-4778	Gland Bush CDWP	Nos	6	6					
1289	02-1018-4779	Gland Bush CDWP	Nos	6	6					
1290	02-1018-4780	Gland Ring CDWP	Nos	6	6					
1291	02-1018-4781	Impeller Side Ring CDWP	Nos	6	6					
1292	02-1018-4782	Manuf.ofImpeller(Double Suction)OD-282Bore-133Louer-150Lenght105	Nos	4	4					
1293	02-1018-4783	Coupling Pump/Moter Side CDWP	Set	2	2					
1294	02-1018-4784	Manuf.Of ResinTrap/Filter ElementSus-316L=490Pipedia-80Flange215m	Nos	5	5					
1295	02-1018-4786	CS Nut & Bolt With Washer (Grade 8.8) 12x35mm	Kgs	35	35					
1296	02-1018-4787	CS Nut & Bolt With Washer (Grade 8.8) 12x45mm	Kgs	45	45					
1297	02-1018-4788	CS Nut & Bolt With Washer (Grade 8.8) 12x50mm	Kgs	48	48					
1298	02-1018-4789	CS Nut & Bolt With Washer (Grade 8.8) 12x55mm	Kgs	70	70					
1299	02-1018-4791	CS Nut & Bolt With Washer (Grade 8.8) 12x70mm	Kgs	143	143					
1300	02-1018-4792	CS Nut & Bolt With Washer (Grade 8.8) 14x35mm	Kgs	50	50					
1301	02-1018-4793	CS Nut & Bolt With Washer (Grade 8.8) 14x40mm	Kgs	50	50					
1302	02-1018-4794	CS Nut & Bolt With Washer (Grade 8.8) 14x45mm	Kgs	100	100					
1303	02-1018-4795	CS Nut & Bolt With Washer (Grade 8.8) 14x60mm	Kgs	100	100					
1304	02-1018-4796	CS Nut & Bolt With Washer (Grade 8.8) 14x30mm	Kgs	82	82					
1305	02-1018-4797	CS Nut & Bolt With Washer (Grade 8.8) 14x80mm	Kgs	193	193					
1306	02-1018-4798	CS Nut & Bolt With Washer (Grade 8.8) 14x90mm	Kgs	130	130					
1307	02-1018-4799	CS Nut & Bolt With Washer (Grade 8.8) 14x100mm	Kgs	100	100					
1308	02-1018-4800	CS Nut & Bolt With Washer (Grade 8.8) 14x150mm	Kgs	100	100					
1309	02-1018-4801	CS Nut & Bolt With Washer (Grade 8.8) 16x35mm	Kgs	35	35					
1310	02-1018-4803	CS Nut & Bolt With Washer (Grade 8.8) 16x50mm	Kgs	58	58					
1311	02-1018-4804	CS Nut & Bolt With Washer (Grade 8.8) 16x55mm	Kgs	34	34					
1312	02-1018-4806	CS Nut & Bolt With Washer (Grade 8.8) 16x65mm	Kgs	134	134					
1313	02-1018-4816	CS Nut & Bolt With Washer (Grade 8.8) 24x80mm	Kgs	54	54					
1314	02-1018-4817	CS Nut & Bolt With Washer (Grade 8.8) 10x20mm	Kgs	18	18					
1315	02-1018-4820	CS Nut & Bolt With Washer (Grade 8.8) 18x15mm	Kgs	25	25					
1316	02-1018-4828	Spiral Wound Gasket SUS-304 Non Asbestos DWG-PI-B3764-972-1	Nos	2	2					
1317	02-1018-4829	Spiral Wound Gasket SUS-304 Non Asbestos DWG-PI-B3764-972-2	Nos	1	1					
1318	02-1018-4830	SpiralWoundGasketWithInnerRingSUS-304+NONAsbestosDWGPIB3769-972-3	Nos	2	2					

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1319	02-1018-4840	Manuf:of Planger OD80mm lenght-166mm Shaft dia 30x95.5mm	Nos	2	2					
1320	02-1018-4841	Manuf:of Piston od70mm Lenght-100mm	Nos	4	4					
1321	02-1018-4842	Manuf.of Piston Pin OD25mm ID-8mm Lenght- 70mm	Nos	4	4					
1322	02-1018-4843	Manuf.Crank Shaft 1st End Shaft D-62mm Strik Shaft45Bering5209	Nos	3	3					
1323	02-1018-4844	Manuf.of Connecting Rod With Piston Bushod138mmThik35mmL-267mm	Nos	4	4					
1324	02-1018-4845	Manuf.Crank Chaft Upper Plate 170mm Thick-17 BB.6306	Nos	4	4					
1325	02-1018-4846	Manuf.of Coupling with rubber Pads OD-140mm ID-30mm Lenght 130mm	Set	5	5					
1326	02-1018-4847	Mech;Seal For Stater Pump	Set	1	1					
1327	02-1018-4856	Piston Part#1	Nos	1	1					
1328	02-1018-4857	O Ring Part#5	Nos	3	3					
1329	02-1018-4858	Dust Proof Ring Part#6	Nos	3	3					
1330	02-1018-4859	YX Seal Ring Part#5	Nos	6	6					
1331	02-1018-4860	O Ring Part#9	Nos	7	7					
1332	02-1018-4861	O Ring Part#10	Nos	14	14					
1333	02-1018-4862	O Ring Part#12	Nos	14	14					
1334	02-1018-4863	O Ring Part#13	Nos	21	21					
1335	02-1018-4864	Piston Ring Part#15	Nos	28	28					
1336	02-1018-4865	Stop Cover Part#17	Nos	7	7					
1337	02-1018-4866	Check Ring Part#24	Nos	14	14					
1338	02-1018-4867	Spare Parts for Phosphate Dozing Pump TZ- HK - 101- 1755	Nos	3	3					
1339	02-1018-4872	manuf.Condenser Pump(CDR)R-1 OD-322 COD-200 Iner F-32mm	Nos	3	3					
1340	02-1018-4873	Manuf.Impeller Shaft Big.OD-56mm Big-OD-L-356Imperller Key-12x5mm	Nos	3	3					
1341	02-1018-4882	Manuf.Suction strainer CDP 1A&1B for Chiuer R-1 Outer-260x257x405	Nos	1	1					
1342	02-1018-4883	Manuf Suction Smainer CDP 2A & 2B for Chiler R-2 150x147x275	Nos	1	1					
1343	02-1018-4888	S.S Sleeve SUS-304 with Synthetic Rubber Size-97x70mm lenght-132m	Nos	6	6					
1344	02-1018-4890	Roller Spindle Larg-01(52x143x33.75x105)(23x11x12x12x25mm)& Other	Set	4	4					
1345	02-1018-4892	Air Blower Pully (Blower Side) OD-205,id-38mm Key Size-10x5mm	Nos	1	1					
1346	02-1018-4893	Pump Shaft for DEMI Water Pump SUS-304Size-45mm Lanth-550mm	Nos	2	2					
1347	02-1018-4894	Manuf.of Chain Body for deminerlized Pump OD-260FlameOD-127x15mm	Nos	2	2					
1348	02-1018-4895	Manuf.Suction Bell for deminerlized pump OD-270x50 Lanth-100mm	Nos	2	2					
1349	02-1018-4897	M.S Rubberlized Pipe Flanged Type OD-89ID-78Lenght330mmThic-6mm	Nos	3	3					
1350	02-1018-4898	M.S Rubberlized Pipe Flanged TypeOD-108-ID100Lenght1560mmThic-6mm	Nos	4	4					
1351	02-1018-4899	M.S Rubberlized Elbow Flange TypeOD-100 rubber lenght Thickness-6	Nos	6	6					
1352	02-1018-4904	Manuf.RAW Water Transfer Pump Impler 260x40 No of van-5 Thic-10m	Nos	4	4					
1353	02-1018-4905	S.S Couper with Cather Size-Outer Dia 65 Inner-40mm L=160mm	Nos	3	3					
1354	02-1018-4906	Manuf. Air Compresor PISTON OD-297 Ring-Width=18.10mm depth21.5	Nos	2	2					
1355	02-1018-4907	Manuf. PISTON Spesial Nut Size-M36x1.5 (material Corbon Steel)	Nos	1	1					
1356	02-1018-4908	Manuf.Air Compressor Bush A OD-88 L+84mm Bore-36mm Corbon Steel	Nos	1	1					
1357	02-1018-4909	Manuf, Air Compressor BUSH B OD-74mm L=60mm Bore-36.55mm	Nos	1	1					
1358	02-1018-4910	Manuf. Air Compressor Piston Rod 40mm L=100Thred Size-36x1.5mm	Nos	1	1					
1359	02-1018-4917	Rotary Oil Vacuum Pump Modile-PVD-N 180-1(3 Phase 380 volt 50Hz)	Nos	1	1					
1360	02-1018-4918	Body of Pump Bearing#6306-6308 Size-230x430x310mm(diam-230mm)	Nos	4	4					
1361	02-1018-4919	Jacking Oil Pump Axical displacement High Pressue Piston Pump	Nos	1	1					
1362	02-1018-4920	Air Compressor for for Emergency Diesac Engine Cylinder -3x80mm	Nos	4	4					
1363	02-1018-4934	Manuf.Pump Shaft Outer Dia-45mm L-585mm Keyway-8x4mm	Nos	1	1					
1364	02-1018-4935	Manuf.Siainiess Steel(SS) Bosh Outer-50mm Inner-35x25mm L-160mm	Nos	1	1					
1365	02-1018-4936	Manuf.Bearing Cover Frount Side Outer-125mm Inner-36mm Thic-20mm	Nos	1	1					
1366	02-1018-4937	Manuf.of Bearing Cover Back Side outer-125mm Inner-36 thic-30mm	Nos	1	1					
1367	02-1018-4938	Manuf.Coupling with PCB & Rubber Outer-48mm length-40mm	Nos	1	1					
1368	02-1018-4942	Manuf.Coumn Pipe large 440x330x350 hole-12 diamter-21mm	Nos	3	3					
1369	02-1018-4943	Manuf.Coumn Pipe Small flang-960x440x330x305 hole-12 diamter-21mm	Nos	2	2					
1370	02-1018-4944	Manuf.Oil Seal Cup With Rubber Seal size-255x165mm Thick-50mm	Nos	4	4					
1371	02-1018-4945	Manuf.Seal Gear Cup Size-250x150&170x122mm	Nos	2	2					
1372	02-1018-4946	Manuf.Cover Plate Large Size-350xInner Bore187mm	Nos	4	4					
1373	02-1018-4947	Manuf.Carear Lock Plate Size-183x16mmNo.of Plate-3 Dia-21mm	Nos	6	6					
1374	02-1018-4948	Manuf.Gear Box Mechanical Seal Cover Type-L80A(380x290x300mm	Nos	2	2					
1375	02-1018-4952	Spiral Pinion Shaft dia-190mm lenght-650 Bevel gear OD-424Leng-70	Set	2	2					
1376	02-1018-4953	Manuf.gear Lube Oil Pump For IACSize-140x04Nosx11x01Nox10x107x140	Set	3	3					
1377	02-1018-4961	U-Bolt with 2Nuts20mm for M.S Pipe 529mm	Nos	273	273					
1378	02-1018-4962	Aluminium Sheet 4"x8"x5mm	Nos	4	4					

KHALID HUSSAIN
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/ STOCK VERIFIER .

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
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1	2	3	4	5	6	7	8	10	11	12
1379	02-1018-4965	MFG:Body with RubberLiningForPneumatic Valve-OD-225mm Id-95L=330	Nos	12	12					
1380	02-1018-4967	Manuf.of PumpBearingBodyForService&DemiWaterTransferPump300x80mm	Nos	1	1					
1381	02-1018-4969	Manuf.of Bush for Coupling of cooling Tower ot-206x132 ID-84x22	Nos	6	6					
1382	02-1018-4970	Maqnuf.Bush for Coupling of CT Fan OT-169x107 I-D-65 Key=18mm	Nos	6	6					
1383	02-1018-4971	Sleeve Bush for Balancing Wheel OD-50 ID-40mm Lenght-140mm	Nos	4	4					
1384	02-1018-4972	Suction Bell Flame Dia-422 Thick-32mmHole-16 PCD-388mm	Nos	4	4					
1385	02-1018-4977	Casing The Cast Iron Bushes Size-225x270x300mm	Nos	3	3					
1386	02-1018-4978	Manuf.of Pilunger Caller OD-50mm Plaunger OD-24mm lenth-132mm	Nos	1	1					
1387	02-1018-4979	Manuf.of Dozing Piston OD-90 ID-16mm lenght-100mm	Nos	2	2					
1388	02-1018-4980	Manuf.of Worm Gear Diameter-86 Teeth-25 Bore-25 Keyway-8x4mm	Nos	3	3					
1389	02-1018-4981	Manuf.of Worm(2Nos Starts) Diameter-29 Lenght-130mmBearing-20mm	Nos	4	4					
1390	02-1018-4982	Manuf.crank Shaft Both End Bearing 20mm Bearing Size-45mm	Nos	4	4					
1391	02-1018-4983	Manuf:of Plaunder od-1=90mm(2)20mm lenght-1=100(2)95mm Total-195m	Nos	2	2					
1392	02-1018-4990	Manuf:&Supply of Gear Box(S=275x220x25x06x14x8.5x02)70x40x65	Nos	5	5					
1393	02-1023-0006	Shaft Nut (Right) CH514	Nos.	6	6					
1394	02-1023-0007	Shaft Nut (Left) CH514	Nos.	3	3					
1395	02-1023-0012	Adjusting Plate CH-416-540	Nos.	1	1					
1396	02-1023-0013	Impeller Nut Cap1400HB-445	Nos.	3	3					
1397	02-1023-0014	Impellller Nut Cap 1400HB-454	Nos.	2	2					
1398	02-1023-0033	2011 Blade Clame A3	Nos	34	34					
1399	02-1023-0034	3002 Spairal Gear 20 CR	Nos	7	7					
1400	02-1023-0035	3006 Fan Shaft 45	Nos	8	8					
1401	02-1023-0038	Oil Slinger A3	Nos.	1	1					
1402	02-1023-0042	Plate Fan Hub Tretention 2Cr13	Nos.	5	5					
1403	02-1023-0054	Fan Blades L-80A DWG#20 Part#3 Dia -8000mm C.T Fan U#2,3,4	Nos	152	152					
1404	02-1023-0055	Pinion D/56-32 ID No 40.0867.20	Nos.	3	3					
1405	02-1023-0056	P/pinion with brush cons	Nos.	9	9					
1406	02-1023-0061	Circluip 5x2	Nos.	10	10					
1407	02-1023-0064	P/Shafit D85 x570	Nos.	1	1					
1408	02-1023-0066	Spiral Casing	Nos.	1	1					
1409	02-1023-0068	U/Bearing bush D85/45 x38	Nos.	8	8					
1410	02-1023-0069	L/Bearing bush D55/31 x 27	Nos.	4	4					
1411	02-1023-0070	Adjusting Ring D85/65 x11	Nos.	17	17					
1412	02-1023-0079	Inducer Bushing	Nos.	6	6					
1413	02-1023-0080	Inducer Bushing	Nos.	6	6					
1414	02-1023-0086	Meduim Shaft Sleave	Nos.	6	6					
1415	02-1023-0089	Double Suc./Wearing ring	Nos.	3	3					
1416	02-1023-0090	Wearing ring	Nos.	7	7					
1417	02-1023-0092	Special stud M76 x345	Nos.	4	4					
1418	02-1023-0093	Special stud M100 x640	Nos.	5	5					
1419	02-1023-0094	Capped Nut M76x4	Nos	14	14					
1420	02-1023-0095	Capped Nut M 100 x 4 (00-011-092)	Nos.	9	9					
1421	02-1023-0096	Special Stud M 76 x 445 (55-011-027)	Nos.	10	10					
1422	02-1023-0097	Special Stud M 100 x 670 (55-011-028)	Nos.	12	12					
1423	02-1023-0098	Special Stud M 42x180 00.011.170	Nos	44	44					
1424	02-1023-0100	Special Stud M 7 x 435 (55.015.044)	Nos.	13	13					
1425	02-1023-0101	Special Stud M 52 x 285 (55-015-045)	Nos.	6	6					
1426	02-1023-0102	Special Stud M 42 x 130 (55.015.042)	Nos.	3	3					
1427	02-1023-0105	Special Stud M 48 (55.085.008)	Nos.	48	48					
1428	02-1023-0106	Special Stud M 36 x 110 (00.011.160)	Nos.	3	3					
1429	02-1023-0109	Special Stud M 56x4-2A 55.301.027	Nos	26	26					
1430	02-1023-0110	Capped Nut M 56 x 4-2a (55.301.026)	Nos.	7	7					
1431	02-1023-0111	Special Shaid M56x4-2A	Nos	1	1					
1432	02-1023-0113	Special Stud 69.287.108	Nos.	8	8					
1433	02-1023-0114	Special Nut 69.287.106	Nos.	8	8					
1434	02-1023-0115	Special Shaid 69.287.109	Nos	14	14					
1435	02-1023-0117	Special Stud M 42 x 25 (69.287.008)	Nos.	10	10					
1436	02-1023-0121	Shouting oil device(Welding Rings)(03 Pes Set)	Set	1	1					
1437	02-1023-0122	Piston Rod 2D 3-5 (13) 21-05	Pcs	2	2					
1438	02-1023-0123	Piston Rod 2d3-5 (13) 22-04	Pcs	2	2					

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1	2	3	4	5	6	7	8	10	11	12
1439	02-1023-0139	Spring 20jw8(A)06-03	Pcs	7	7					
1440	02-1023-0140	Spring 20JW8(A) 06-07	Pcs	10	10					
1441	02-1023-0141	Filter 20JW8 (A) 12A-00	Pcs	2	2					
1442	02-1023-0142	Tube Shape Heater 3JW8(A)-25B-00	Pcs	25	25					
1443	02-1023-0145	Lower Bearing Plastic 7101N-0003D-2	Pcs	2	2					
1444	02-1023-0151	First Stage Case 7LDTN-0007 HT25-47	Pcs	1	1					
1445	02-1023-0155	Series Case 7LD TN-0011	Pcs	7	7					
1446	02-1023-0156	Scries Case 7LDTN-0011	Pcs	18	18					
1447	02-1023-0157	Discharge Head &LDTN-0023 HT25-47	Pcs	1	1					
1448	02-1023-0161	Colum 7LDTN-0017 HT20-40	Pcs	1	1					
1449	02-1023-0162	Inter Bearing Support 7LDTN-0016 HT20-16	Pcs	6	6					
1450	02-1023-0163	Reducer 7LDTN-0012	Pcs	7	7					
1451	02-1023-0164	Impeller 3nd Stage 40CHTA-6-230-25-14-28	Pcs	1	1					
1452	02-1023-0165	Impeller 2nd Stage 40CHTA6-230.1S	Pcs	1	1					
1453	02-1023-0166	Impeller 4th Stage 40CHTA-6-230-45-14-28	Pcs	1	1					
1454	02-1023-0167	Impeller 5th Stage 40CHTA-6-230-45-14-28	Pcs	1	1					
1455	02-1023-0168	Impeller 6th Stage 40CHTA-6-230-45-14-28	Pcs	1	1					
1456	02-1023-0169	Impeller Suction Stage 40 CHTA-6-2315-14-28	Pcs	1	1					
1457	02-1023-0170	Bearing Housing Suction Side 40CHTA 6-350-1 GT5250	Pcs	1	1					
1458	02-1023-0171	Bearing Housing Suction 40CHTA-6.350-2 GT525	Pcs	1	1					
1459	02-1023-0173	Bearing Segment Carrier 40 CHTA-6-392 GGG-40	Pcs	1	1					
1460	02-1023-0176	Ring Multiple 40CHTA-6-501-1 1-4057-05	Pcs	6	6					
1461	02-1023-0177	Casing Wer Ring 40CHTA--6-502-2 RWA 350	Pcs	6	6					
1462	02-1023-0178	Spacer Ring 40CHTA-6-504-1 MST602	Pcs	6	6					
1463	02-1023-0179	Spacer Ring 40CHTA-6-504-2 ZS15V	Pcs	6	6					
1464	02-1023-0180	Retaining Ring 40CHTA-6-509-1 RWA350	Pcs	5	5					
1465	02-1023-0181	Spacer Disc 40CHTA-6-551-3	Pcs	4	4					
1466	02-1023-0182	Cylindrical Pin 1.4305 (Feed Pump (40 CHTA/6) Spare Parts Balance	Pcs	6	6					
1467	02-1023-0183	Blaance Disc 40CHTA-6-601	Pcs	1	1					
1468	02-1023-0186	Casing Wear Ring (A)1400HB-403	Nos	3	3					
1469	02-1023-0192	Inner Sealing Ring 1400 HB-416	Nos	2	2					
1470	02-1023-0193	Sealing Ring 1400 HB -417	Nos	2	2					
1471	02-1023-0195	Upper Bearing Staff Box 1400 HB-432	Nos.	1	1					
1472	02-1023-0200	Thurst Bearing Plate 40 CHTA-6-384 MST-60-2	Nos.	1	1					
1473	02-1023-0202	Stationary seal ring seal	Nos.	3	3					
1474	02-1023-0203	Multiple ring	Nos.	6	6					
1475	02-1023-0204	Loose coller ZS 15V	Nos.	2	2					
1476	02-1023-0205	Haltering	Nos.	6	6					
1477	02-1023-0206	Inter stage bush RWA350	Nos.	10	10					
1478	02-1023-0207	Hexagon head bolt 5.6	Nos.	25	25					
1479	02-1023-0208	Hexagon head bolt 8.8	Nos.	12	12					
1480	02-1023-0209	Hexagon head bolt 901.2 8.8	Nos.	12	12					
1481	02-1023-0210	Shaft Nut	Nos.	4	4					
1482	02-1023-0215	Capped nut M76x4(00.011.067)	Nos.	10	10					
1483	02-1023-0216	Capped nut M100x4(00.011.070)	Nos.	1	1					
1484	02-1023-0217	Spherical washer (Boiler) 55.011.104	Nos.	12	12					
1485	02-1023-0219	Specail Washer (Bottom) 55.11.102	Nos	16	16					
1486	02-1023-0220	Spherical washer (Top) 55.011.103	Nos.	15	15					
1487	02-1023-0221	Spherical washer (Bottom) 55.015.148	Nos	13	13					
1488	02-1023-0222	Spherical washer (Top) 55.015.180	Nos	16	16					
1489	02-1023-0224	Spherical washer (Bottom) 55.015.146	Nos.	12	12					
1490	02-1023-0225	Spherical washer (Top) 55.015.181	Nos	12	12					
1491	02-1023-0227	Piston Ring 55.085.005	Nos	18	18					
1492	02-1023-0228	Nut M48 55.085.007	Nos	18	18					
1493	02-1023-0247	Leaf spring 132 55.100.020	Nos.	12	12					
1494	02-1023-0249	Leaf spring 132 55.100.024	Nos.	36	36					
1495	02-1023-0259	Sealing Ring (69.069.147)	Set	4	4					
1496	02-1023-0268	Valve seat (55.301.034)	Nos.	2	2					
1497	02-1023-0269	Valve Disk (55.301.035)	Nos.	2	2					
1498	02-1023-0270	Pilot valve (55.301.036) (pre Inlet Valve	Nos.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1499	02-1023-0272	Valve Disc Nut Dwg.No.55.301.038	Nos	2	2					
1500	02-1023-0273	Seat Sleave (55.301.041)	Nos.	5	5					
1501	02-1023-0275	Valve Seat/ 150 (55.301.008)	Nos.	1	1					
1502	02-1023-0276	Valve Disk 150 (55.301.009)	Nos.	1	1					
1503	02-1023-0277	Sleave for valve Disc(55.301.013)	Nos.	1	1					
1504	02-1023-0279	Seal Sleeve 5.301.16	Nos	16	16					
1505	02-1023-0280	Cappeed nuit M56x4-2a(55.301.026)	Nos.	10	10					
1506	02-1023-0281	Cover (55.301.028)	Nos.	2	2					
1507	02-1023-0285	Seal sleeve (55.306.020)	Nos.	1	1					
1508	02-1023-0286	Seal sleeve (55.306.022)	Nos.	5	5					
1509	02-1023-0287	Bush (55.306.028)	Nos.	1	1					
1510	02-1023-0290	Valve Disc / 360 (55.314.013)	Nos.	1	1					
1511	02-1023-0292	Sleave for valve Disc(55.314.010)	Nos.	1	1					
1512	02-1023-0293	Sleave for valve Steam(55.314.007)	Nos.	1	1					
1513	02-1023-0294	Protecting core sleeve(00.301.042)	Nos.	1	1					
1514	02-1023-0305	Sealing ring (69.450.032)	Nos.	6	6					
1515	02-1023-0307	Spare For Cwpp Outllet Valve	Set	1	1					
1516	02-1023-0309	Adjusting Ring Pin (Cipper) VP 813 B	Nos.	5	5					
1517	02-1023-0311	Adjusting Ring Pin (Cipper) VDS 804B	Nos.	3	3					
1518	02-1023-0312	Adjusting Ring Pin (Lower) VDT 804 A	Nos.	3	3					
1519	02-1023-0314	Spindle 0041088	Nos	3	3					
1520	02-1023-0315	Dise Guide 0640053	Nos.	3	3					
1521	02-1023-0316	Over Lap Coller 0860101	Nos.	2	2					
1522	02-1023-0318	Adjusting Ring Pin (Cipper) VP 813 B	Nos.	3	3					
1523	02-1023-0319	Adjusting Ring Pin (Lower) VP 813 C	Nos.	3	3					
1524	02-1023-0320	Adjusting Ring Pin (Cipper) VDS 804B	Nos.	2	2					
1525	02-1023-0321	Adjusting Ring Pin (Lower) VDT 804 A	Nos.	2	2					
1526	02-1023-0325	Over Lap Coller 0860101	Nos.	2	2					
1527	02-1023-0326	Dise VG x 815	Nos.	3	3					
1528	02-1023-0327	Adjusting Ring Pin (Cipper) VP 813 H	Nos.	2	2					
1529	02-1023-0328	Adjusting Ring Pin (Lower) VP 813 H	Nos.	2	2					
1530	02-1023-0329	Adjusting Ring Pin (Cipper) ALX 4331601	Nos.	2	2					
1531	02-1023-0330	Adjusting Ring Pin (Lower) VDZ 804 C	Nos.	2	2					
1532	02-1023-0333	Disc Guide	Nos	2	2					
1533	02-1023-0336	Adjusting Ring Pin (Cipper) VP 815 J	Nos.	2	2					
1534	02-1023-0337	Adjusting Ring Pin (Lower) VP 813 K	Nos.	2	2					
1535	02-1023-0339	Adjusting Ring Pin (Lower) VEP 804 A	Nos.	3	3					
1536	02-1023-0341	Spindle ALX 5100701	Nos.	1	1					
1537	02-1023-0343	Over Lap Coller ALX 1950501	Nos.	2	2					
1538	02-1023-0344	Piot Dise ALx 4274601	Nos.	2	2					
1539	02-1023-0345	Steam Alx 4274701	Nos.	1	1					
1540	02-1023-0347	Spring OA 841X	Nos.	1	1					
1541	02-1023-0348	Dise Alx 0752701	Nos.	2	2					
1542	02-1023-0349	Spring 4074601	Nos.	2	2					
1543	02-1023-0354	Gaskit F-017 P No 4000 V No 1500	Nos.	12	12					
1544	02-1023-0355	Helical Coiled insert F-023 SUS 304	Nos.	2	2					
1545	02-1023-0356	Bearing Bush F-024 S 35 C	Nos.	2	2					
1546	02-1023-0357	Bearing Bush F-025 S 35 C	Nos.	8	8					
1547	02-1023-0358	Case wear ring F-027 FC 200	Nos.	4	4					
1548	02-1023-0359	Gland Bush F-028 FC 200	Nos.	2	2					
1549	02-1023-0360	Bearing Sleeve F-031 SUS 420 J2	Nos.	2	2					
1550	02-1023-0366	Lock Washer P No.4 F 035	Nos.	2	2					
1551	02-1023-0368	Water delecting Rubber P No.33 F.039	Nos.	2	2					
1552	02-1023-0370	Rack 30 Cr MOVA	Nos.	1	1					
1553	02-1023-0371	bolt 45	Nos.	2	2					
1554	02-1023-0372	Sleeve A3F	Nos.	1	1					
1555	02-1023-0373	Sleeve Ripe	Nos.	1	1					
1556	02-1023-0374	Lock Nut	Nos.	2	2					
1557	02-1023-0375	Pin	Nos.	3	3					
1558	02-1023-0376	Pin 25 Cr 2 MOVA	Nos.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1559	02-1023-0377	Screw M14 x 50	Nos.	3	3					
1560	02-1023-0378	Piston Stem 25 Cr 2 MOVA	Nos.	2	2					
1561	02-1023-0379	Sleeve 25 Cr 2 MOVA	Nos.	2	2					
1562	02-1023-0380	Piot Valve 25 Cr 2 MOVA	Nos.	2	2					
1563	02-1023-0381	Spring 85,60	Nos.	2	2					
1564	02-1023-0382	Spring 50,60	Nos.	2	2					
1565	02-1023-0384	Piston HT -25 -- 47	Nos.	2	2					
1566	02-1023-0385	Piston Ring HT -20-47	Nos.	12	12					
1567	02-1023-0386	Bush 25 Cv 2 MOVA	Nos.	2	2					
1568	02-1023-0387	Limiting Ring A3F	Nos.	2	2					
1569	02-1023-0388	Limiting Ring	Nos.	2	2					
1570	02-1023-0390	Sealing Sleeve	Nos.	1	1					
1571	02-1023-0392	Gear 23 Cr 2 MOVA	Nos.	1	1					
1572	02-1023-0395	Gear 45	Nos.	1	1					
1573	02-1023-0396	Roller 25 Cr MOVA	Nos.	4	4					
1574	02-1023-0398	Bearing Support A3F	Nos.	1	1					
1575	02-1023-0399	Gear 45	Nos.	1	1					
1576	02-1023-0401	Bearing 100 GB 276-64	Nos.	3	3					
1577	02-1023-0403	Handle With Rod 3 Cr 13	Nos.	1	1					
1578	02-1023-0405	Cooling Sleeve A3F	Nos.	1	1					
1579	02-1023-0406	Bearing 17 DG 276-64	Nos.	2	2					
1580	02-1023-0407	Main piot Valve 25 Cr 2 MOVA	Nos.	2	2					
1581	02-1023-0408	Sleeve 25 Cr 2 MOVA	Nos.	2	2					
1582	02-1023-0409	decayed Piot Valve	Nos.	2	2					
1583	02-1023-0410	Plug With orifice A3F	Nos.	2	2					
1584	02-1023-0411	Boltom Cover HT 20-40	Nos.	2	2					
1585	02-1023-0412	Drain Air Plug 45	Nos.	2	2					
1586	02-1023-0414	BOLT & NUT FOR DRUM INTERMALS	Nos.	10	10					
1587	02-1023-0415	BOLT & NUT FOR DRUM INTERMALS	Nos.	12	12					
1588	02-1023-0416	BOLT & NUT FOR DRUM INTERMALS	Nos.	10	10					
1589	02-1023-0417	BOLT & NUT FOR DRUM INTERMALS	Nos.	2	2					
1590	02-1023-0418	BOLT & NUT FOR DRUM INTERMALS	Nos.	10	10					
1591	02-1023-0419	BOLT & NUT FOR DRUM INTERMALS	Nos.	2	2					
1592	02-1023-0430	Flexble Coupling ABR-002	Nos.	1	1					
1593	02-1023-0431	GASKET FOR STEAM CONVERTER	Nos.	1	1					
1594	02-1023-0432	GASKET FOR STEAM CONVERTER DRAIN COOLER	Nos.	2	2					
1595	02-1023-0433	TUBES FOR DRAIN COOLER	Set	1	1					
1596	02-1023-0441	TONGUED WASHER FOR DRUMS INTERMALS	Nos.	21	21					
1597	02-1023-0442	TONGUED WASHER FOR DRUMS INTERMALS	Nos.	10	10					
1598	02-1023-0443	U-BOLT AND NUTS FOR DRUM INTERMALS	Nos.	3	3					
1599	02-1023-0452	KEY M8'16	Nos.	2	2					
1600	02-1023-0453	KEY M8	Nos.	2	2					
1601	02-1023-0454	KEY M20*100	Nos.	1	1					
1602	02-1023-0455	KEY M20*40	Nos.	1	1					
1603	02-1023-0457	FLUSH BOLT M8x16	Nos.	4	4					
1604	02-1023-0458	SPRING WASHER M8	Nos.	4	4					
1605	02-1023-0459	DOUBLE WASHER 20X100	Nos.	1	1					
1606	02-1023-0460	DOUBLE WASHER 20X40	Nos.	1	1					
1607	02-1023-0461	TONGUED WASHER M30	Nos.	2	2					
1608	02-1023-0462	DOUBLE WASHER M20X50	Nos.	1	1					
1609	02-1023-0464	PACKING A20	Nos.	3	3					
1610	02-1023-0465	PACKING 21	Nos.	2	2					
1611	02-1023-0466	PACKING 15	Nos.	2	2					
1612	02-1023-0470	KEY ST735444	Nos.	1	1					
1613	02-1023-0471	KEY ST735443	Nos.	1	1					
1614	02-1023-0472	KEY ST735446	Nos.	1	1					
1615	02-1023-0473	KEY ST735445	Nos.	1	1					
1616	02-1023-0474	KEY ST737791	Nos.	2	2					
1617	02-1023-0475	KEY ST737792	Nos.	2	2					
1618	02-1023-0476	KEY T-025 ST735446	Nos.	1	1					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1619	02-1023-0477	KEY T-026 ST735445	Nos.	1	1					
1620	02-1023-0478	LINER T-027 ST 735784	Nos.	8	8					
1621	02-1023-0480	DOUBLE WASHER M20X50	Nos.	6	6					
1622	02-1023-0481	DOUBLE WASHER 320X40	Nos.	2	2					
1623	02-1023-0484	PARELLEL PIN T-033	Nos.	16	16					
1624	02-1023-0485	KEY T-034	Nos.	2	2					
1625	02-1023-0486	KEY T-035	Nos.	2	2					
1626	02-1023-0487	KEY T-036	Nos.	1	1					
1627	02-1023-0488	KEY T-037	Nos.	1	1					
1628	02-1023-0489	DOUBLE WASHER M20X40	Nos.	2	2					
1629	02-1023-0490	DOUBLE WASHER M20X50	Nos.	3	3					
1630	02-1023-0492	SET SCREW M10X13 T-041	Nos.	14	14					
1631	02-1023-0493	PARELLEL PIN T-042	Nos.	14	14					
1632	02-1023-0494	SET SCREW M10X14	Nos.	14	14					
1633	02-1023-0495	PARELLEL PIN T-045	Nos.	14	14					
1634	02-1023-0496	CLAW WASHER M8 T-045	Nos.	16	16					
1635	02-1023-0497	TONGUED WASHER M48 T-046	Nos.	4	4					
1636	02-1023-0498	ADJUSTING KEY T-047	Nos.	1	1					
1637	02-1023-0500	TONGUED WASHER M12 T-049	Nos.	2	2					
1638	02-1023-0501	SHIM T -050	Nos.	2	2					
1639	02-1023-0502	SHIM T -051	Nos.	2	2					
1640	02-1023-0503	SHIM T-052	Nos.	3	3					
1641	02-1023-0504	SHIM T-053	Nos.	2	2					
1642	02-1023-0505	SHIM B= 0.1T-054	Nos.	2	2					
1643	02-1023-0506	SHIM T-055	Nos.	2	2					
1644	02-1023-0509	SPACER T-058	Nos.	4	4					
1645	02-1023-0510	TONGUED WASHER M12 T-059	Nos.	4	4					
1646	02-1023-0511	CLAW WASHER M64 T-060	Nos.	4	4					
1647	02-1023-0512	CLAW WASHER M8 T-061	Nos.	30	30					
1648	02-1023-0513	SHIM T-062	Nos.	1	1					
1649	02-1023-0514	SHIM T-063	Nos.	2	2					
1650	02-1023-0515	SHIM T-064	Nos.	1	1					
1651	02-1023-0517	TONGUED WASHER M48	Nos.	8	8					
1652	02-1023-0518	CLAW MASHER M8	Nos.	32	32					
1653	02-1023-0519	SHIM T-068	Nos.	2	2					
1654	02-1023-0529	Asbestos Packing 135 Piller#316 ST721081	Nos	8	8					
1655	02-1023-0530	Tapper Pinx22 dwg st577963	Nos	3	3					
1656	02-1023-0532	set Plate 1.5x8x85 SUS-403	Nos	8	8					
1657	02-1023-0533	set Plate 4x71x120x SUS-403	Nos	2	2					
1658	02-1023-0537	Packing TB$-55-78-12 Flourine	Nos	2	2					
1659	02-1023-0538	U-Nut SS41	Nos	4	4					
1660	02-1023-0544	Packing TB4-55-78-12 Flourine	Nos	2	2					
1661	02-1023-0545	U-Nut M16 SS41	Nos	4	4					
1662	02-1023-0551	Tapper Pin 10x66 SS41	Nos	2	2					
1663	02-1023-0552	Hex.HGead Hole Bolt M6x16SCM 435	Nos	8	8					
1664	02-1023-0553	Oil DRSI TC4-50-72-12 Flourine	Nos	1	1					
1665	02-1023-0557	Set Plate 3x20x20 SUS-403	Nos	4	4					
1666	02-1023-0558	Set Palte 3x8x20 SUS-403	NOs	16	16					
1667	02-1023-0560	Graphite Paking A-40 Graphite	Nos	34	34					
1668	02-1023-0563	Oil Seal TC4-45-68-12 Flourine	Nos	2	2					
1669	02-1023-0564	U-Nut M12 SS-41	Nos	4	4					
1670	02-1023-0566	Tapper Pin 8x16 SS41	Nos	1	1					
1671	02-1023-0575	Packing ST581458-3 Sheet Paking	Nos	2	2					
1672	02-1023-0577	Turust Ball Bearing 51205 JIS B1532	Nos	2	2					
1673	02-1023-0582	Tapper Pin 10x56x22	Nos	2	2					
1674	02-1023-0584	Set Plate 4x64x110 SUS-400	Nos	2	2					
1675	02-1023-0585	J-Nut M12 SS41	Nos	4	4					
1676	02-1023-0586	Thrust Ball Bearing 51205 JIS B1532	Nos	4	4					
1677	02-1023-0587	O-Ring P-11 Flourine	Nos	3	3					
1678	02-1023-0589	O-Ring G-95 Flourine	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
1679	02-1023-0590	Round Rubber Packing 108x3 Silicone	Nos	5	5					
1680	02-1023-0591	Packing 10.5 C-1100 PC	Nos	4	4					
1681	02-1023-0592	Packing 8.5 C1100 PC	Nos	8	8					
1682	02-1023-0593	Packing ST5814558A Sheet Packing	Nos	3	3					
1683	02-1023-0594	Packing ST581459A Sheet packing	Nos	3	3					
1684	02-1023-0595	Packing ST581457-3 Sheet Packing	Nos	3	3					
1685	02-1023-0596	Oil Seal TC4-50-72-12 Flourie	Nos	4	4					
1686	02-1023-0606	SPIRAL WOUND GASKET G80	Nos.	2	2					
1687	02-1023-0607	U Ring T-167	Nos	1	1					
1688	02-1023-0609	U Ring T-169	Nos	1	1					
1689	02-1023-0610	PARALLEL PIN 7X14	Nos.	1	1					
1690	02-1023-0612	PARALLEL PIN 6X19	Nos.	1	1					
1691	02-1023-0613	CLAW WASHER M12	Nos.	2	2					
1692	02-1023-0615	U Ring ST-442964	Nos	4	4					
1693	02-1023-0617	PACKING T-183	Nos.	4	4					
1694	02-1023-0619	HEX. HEAD-HOLE BOLT M6X15	Nos.	16	16					
1695	02-1023-0620	PLATE T-186	Nos.	4	4					
1696	02-1023-0621	BOLT M6X15	Nos.	16	16					
1697	02-1023-0624	PACKING 1.5XD50/D15	Nos.	8	8					
1698	02-1023-0625	RF-GASKET 150LB-5B T-191	Nos.	2	2					
1699	02-1023-0627	RF-GASKET 150LB-3B T-193	Nos.	2	2					
1700	02-1023-0628	PACKING T-194	Nos.	2	2					
1701	02-1023-0640	SHIM T-206	Nos.	16	16					
1702	02-1023-0641	PACKING(ASBESTOS SHEET)3D705/D635	Nos.	4	4					
1703	02-1023-0644	RF-GASKET 150LB-12B	Nos.	1	1					
1704	02-1023-0645	RF-GASKET 150LB-4B	Nos.	1	1					
1705	02-1023-0646	RF-GASKET 150LB-1/2B	Nos.	3	3					
1706	02-1023-0647	PACKING A-007-8	Nos.	8	8					
1707	02-1023-0648	O-RING G280-N	Nos.	1	1					
1708	02-1023-0649	RF-GASKET 10K-350A	Nos.	2	2					
1709	02-1023-0650	ELEMENT	Nos.	2	2					
1710	02-1023-0651	O-RING	Nos.	2	2					
1711	02-1023-0652	BACK-UP RING	Nos.	2	2					
1712	02-1023-0653	BEARING Y14448	Nos.	1	1					
1713	02-1023-0656	FELT RING	Nos.	1	1					
1714	02-1023-0657	RUBBER PACKING #14448	Nos.	1	1					
1715	02-1023-0658	SHEET PACKING #14448	Nos.	3	3					
1716	02-1023-0659	PACKING ST733930	Nos.	1	1					
1717	02-1023-0660	BEARING ST733930	Nos.	1	1					
1718	02-1023-0662	COUPLING BUSH	Nos.	7	7					
1719	02-1023-0663	FELT RING	Nos.	1	1					
1720	02-1023-0664	RUBBER PACKING	Nos.	1	1					
1721	02-1023-0665	LOCK WASHER	Nos.	1	1					
1722	02-1023-0666	SHEET PACKING	Nos.	3	3					
1723	02-1023-0667	PACKING	Nos.	1	1					
1724	02-1023-0668	O-RING P9-N	Nos.	2	2					
1725	02-1023-0672	RING GASKET 900LB-2B	Nos.	1	1					
1726	02-1023-0674	PACKING ST734934	Nos.	2	2					
1727	02-1023-0683	Back-up Ring D-503.5D520x2 Item 970-10 PTFE	Nos	3	3					
1728	02-1023-0687	O-RING P-42	Nos.	4	4					
1729	02-1023-0688	O-Ring P-26 Item 970-16 EPR	Nos	4	4					
1730	02-1023-0693	O-Ring Item 3 Viton	Nos	2	2					
1731	02-1023-0694	O-Ring P-270 Item NBR	Nos	6	6					
1732	02-1023-0697	PACKING t=0.8	Nos.	1	1					
1733	02-1023-0698	Blaancing Sleeve F-078	Nos	1	1					
1734	02-1023-0699	Casing Ring F-079	Nos	2	2					
1735	02-1023-0700	Casing Ring F-080	Nos	2	2					
1736	02-1023-0701	Inter Bushing F-081	Nos	1	1					
1737	02-1023-0702	Inter Stage Bushing F-082	Nos	1	1					
1738	02-1023-0703	Inter Stage Bushing F-083	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1739	02-1023-0704	Balancing Bushing F-084	Nos	1	1					
1740	02-1023-0705	Thurst Shor J6P F-085	Nos	10	10					
1741	02-1023-0711	O-Ring IAG-290 Item 970-4 NBR	Nos	2	2					
1742	02-1023-0712	O-Ring IAG-240 Item 970-5 NBR	Nos	2	2					
1743	02-1023-0713	O-Ring IAG-175 Item 970-6 NBR	Nos	1	1					
1744	02-1023-0715	O-Ring IAG-165 Item 970-8 NBR	Nos	2	2					
1745	02-1023-0716	O-Ring IAG-185 Item 970-9 NBR	Nos	2	2					
1746	02-1023-0724	Casing Ring Item 73 SUS 420-J-2	Nos	2	2					
1747	02-1023-0725	Lock Washer for Ball Bearing Item 994 SPCC	Nos	3	3					
1748	02-1023-0726	Floating Seat Item 1 Carbon (DWG-MS-73438-1)	Nos	1	1					
1749	02-1023-0727	Seal Ring Item-3 (DWG-MS-73438-1)	Nos	1	1					
1750	02-1023-0728	Radial Bearing F-109	Nos	1	1					
1751	02-1023-0729	Radial Bearing F-110	Nos	1	1					
1752	02-1023-0730	Compined Bearing F-111	Nos	1	1					
1753	02-1023-0731	Radial Bearing F-112	Nos	1	1					
1754	02-1023-0732	Radial Bearing F-113	Nos	1	1					
1755	02-1023-0733	Radial Bearing F114	Nos	1	1					
1756	02-1023-0734	Tilting Pat Thurst Bearing F115	Nos	1	1					
1757	02-1023-0735	Tilting Pat Thurst Bearing F116	Nos	1	1					
1758	02-1023-0736	Air Vent F117	Nos	1	1					
1759	02-1023-0738	Bellows F119	Nos	1	1					
1760	02-1023-0741	Gaskit & Washer F-122	Set	1	1					
1761	02-1023-0742	Packing & O-Ring Zin Bar F-123	Set	1	1					
1762	02-1023-0744	FILTER F-125	Nos.	1	1					
1763	02-1023-0751	INSULATION WASHER M24-G-008	Nos.	14	14					
1764	02-1023-0752	INSULATION TUBE G-009	Nos.	14	14					
1765	02-1023-0753	PACKING G-010	Nos.	14	14					
1766	02-1023-0754	INSULATION WASHER G-011	Nos.	2	2					
1767	02-1023-0755	INSULATION RING G-012	Nos.	2	2					
1768	02-1023-0757	Insulation Paper Pin G-014	Nos	4	4					
1769	02-1023-0758	PACKING G-015	Nos.	4	4					
1770	02-1023-0762	Packing G-021	Nos	2	2					
1771	02-1023-0763	Packing G-022	Nos	14	14					
1772	02-1023-0764	Packing G-023	Nos	2	2					
1773	02-1023-0765	O-Ring Packing G-024	Nos	2	2					
1774	02-1023-0766	O-Ring Packing G-025	Nos	2	2					
1775	02-1023-0768	SPRING WASHER M-24 G-027	Nos.	14	14					
1776	02-1023-0770	DOUBLE HOLE PLATE WASHER G-030	Nos.	4	4					
1777	02-1023-0773	Packing Ring G-033	Nos	4	4					
1778	02-1023-0774	SEAL STRIP	Nos.	4	4					
1779	02-1023-0775	Packing i5 G-035	Nos.	2	2					
1780	02-1023-0777	SEAL STRIP	Nos.	36	36					
1781	02-1023-0778	TONGUED WASHER M20	Nos.	8	8					
1782	02-1023-0780	INSULATION TUBE	Nos.	32	32					
1783	02-1023-0781	SPRING WASHER SDW M16	Nos.	32	32					
1784	02-1023-0782	SEAL FIN L780A =445	Nos.	16	16					
1785	02-1023-0783	SEAL STRIP L=766A=475	Nos.	16	16					
1786	02-1023-0784	INSULATION WASHER M12	Nos.	24	24					
1787	02-1023-0785	INSULATION WASHER	Nos.	24	24					
1788	02-1023-0786	INSULATION TUBE 15.8-12.2X22	Nos.	12	12					
1789	02-1023-0787	INSULATION TUBE	Nos.	24	24					
1790	02-1023-0788	PLATE WASHER	Nos.	4	4					
1791	02-1023-0790	Insulation Washer G-053	Nos.	6	6					
1792	02-1023-0793	TONGUED WASHER M10	Nos.	24	24					
1793	02-1023-0795	SET SCREW M5X8	Nos.	10	10					
1794	02-1023-0797	WASHER	Nos.	4	4					
1795	02-1023-0798	TONGUED WASHER M10	Nos.	16	16					
1796	02-1023-0802	CLAW WASHER M20	Nos.	17	17					
1797	02-1023-0803	PLATE WASHER M008-72051513 P1	Nos.	4	4					
1798	02-1023-0804	PLATE WASHER M008-72051513 P2	Nos.	4	4					

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1	2	3	4	5	6	7	8	10	11	12
1799	02-1023-0805	O-RING PACKING JIS	Nos.	2	2					
1800	02-1023-0807	PACKING 2XD22/D14	Nos.	96	96					
1801	02-1023-0808	RUBBER PACKING M339-4B6847	Nos.	1	1					
1802	02-1023-0809	Insulation Tube G-86	Nos.	4	4					
1803	02-1023-0810	Insulation Washer G-087	Nos.	8	8					
1804	02-1023-0811	F F Gaskit G-088	Nos.	2	2					
1805	02-1023-0813	Gaskit G-090	Nos.	2	2					
1806	02-1023-0817	Insulation Washer G-094	Nos.	2	2					
1807	02-1023-0818	SEAL STRIP L=280A=165	Nos.	10	10					
1808	02-1023-0820	CLAW WASHER M8-	Nos.	6	6					
1809	02-1023-0823	PACKING M033-838691C1	Nos.	1	1					
1810	02-1023-0825	PACKING M043-753242A	Nos.	1	1					
1811	02-1023-0826	PACKING 6X20D24XD15 G-103	Nos.	4	4					
1812	02-1023-0828	INSULATION WASHER M10 G-105	Nos.	4	4					
1813	02-1023-0831	Cusion G-108	Nos.	2	2					
1814	02-1023-0832	Cusion G-109	Nos.	1	1					
1815	02-1023-0833	Cusion G-110	Nos.	2	2					
1816	02-1023-0834	Cusion G-111	Nos.	2	2					
1817	02-1023-0835	PACKING 9X25X4200 G-112	Nos.	1	1					
1818	02-1023-0836	PACKING 9X32X920 G-113	Nos.	1	1					
1819	02-1023-0837	PACKING 9X32X840 G-114	Nos.	1	1					
1820	02-1023-0838	Cusion G-115	Nos.	1	1					
1821	02-1023-0842	Cusion G-119	Nos.	1	1					
1822	02-1023-0844	PACKING 2X30X660 G-121	Nos.	2	2					
1823	02-1023-0845	PACKING 2X30X400 G-122	Nos.	2	2					
1824	02-1023-0846	PACKING 2X30X160/D100 G-123	Nos.	1	1					
1825	02-1023-0847	PACKING 3X47X1100 G-124	Nos.	2	2					
1826	02-1023-0848	PACKING 3X45X1103 G-125	Nos.	4	4					
1827	02-1023-0849	AIR FILTER G-126	Nos.	16	16					
1828	02-1023-0850	PACKING 2X25X990 G-127	Nos.	8	8					
1829	02-1023-0851	PACKING 2X25X440 G-128	Nos.	8	8					
1830	02-1023-0854	PACKING 2X9X36 G-131	Nos.	2	2					
1831	02-1023-0857	TONGUED WASHER M6 G-134	Nos.	8	8					
1832	02-1023-0859	PACKING 2X85X165 G-136	Nos.	2	2					
1833	02-1023-0861	MOLDRUBBER PACKING L=1580G-138	Nos.	4	4					
1834	02-1023-0862	MOLDRUBBER PACKING L=570G-139	Nos.	4	4					
1835	02-1023-0863	MOLDRUBBER PACKING L=1580G-140	Nos.	4	4					
1836	02-1023-0864	MOLDRUBBER PACKING L=520G-141	Nos.	4	4					
1837	02-1023-0867	DOUBLE HOLE PLATE WASHER G-144	Nos.	41	41					
1838	02-1023-0868	INSULATION TUBE 15.8/12.2X133G-145	Nos.	8	8					
1839	02-1023-0870	INSULATION TUBE 15.8/15.2X98 G-147	Nos.	4	4					
1840	02-1023-0871	TONGUED WASHER M12 G-148	Nos.	4	4					
1841	02-1023-0872	PACKING 2X85X165 G-149	Nos.	2	2					
1842	02-1023-0874	DOUBLE HOLE PLATE WASHER G-151	Nos.	9	9					
1843	02-1023-0877	LOCK WASHER G-159	Nos.	4	4					
1844	02-1023-0878	LOCK WASHER G-160	Nos.	4	4					
1845	02-1023-0879	LOCK WASHER G-161	Nos.	4	4					
1846	02-1023-0880	LOCK WASHER G-162	Nos.	4	4					
1847	02-1023-0883	O-RING PACKING G-165	Nos.	1	1					
1848	02-1023-0887	O-RING PACKING G-169	Nos.	1	1					
1849	02-1023-0888	O-RING PACKING G-170	Nos.	2	2					
1850	02-1023-0889	O-RING PACKING G-171	Nos.	5	5					
1851	02-1023-0890	O-RING PACKING G-172	Nos.	1	1					
1852	02-1023-0891	CLAW WASHER M12 G-173	Nos.	3	3					
1853	02-1023-0893	O-RING PACKING G-176	Nos.	4	4					
1854	02-1023-0894	O-RING PACKING G-177	Nos.	1	1					
1855	02-1023-0895	O-RING PACKING G-178	Nos.	1	1					
1856	02-1023-0896	O-RING PACKING G-179	Nos.	4	4					
1857	02-1023-0904	Mech: Seal Ring G-187	Nos.	1	1					
1858	02-1023-0911	Roter G-194	Nos.	2	2					

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1	2	3	4	5	6	7	8	10	11	12
1859	02-1023-0912	Roter G-195	Nos.	4	4					
1860	02-1023-0913	Seleve G-196	Nos.	2	2					
1861	02-1023-0914	Bearing Bush G-197	Nos.	1	1					
1862	02-1023-0915	Bearing Seat G-198	Nos.	4	4					
1863	02-1023-0916	Balance Piston G-199	Nos.	4	4					
1864	02-1023-0917	Thrust Seat G-200	Nos.	4	4					
1865	02-1023-0918	Bal Bearing Size: 62x10 G-201	Nos.	1	1					
1866	02-1023-0919	Bush G-202	Nos.	2	2					
1867	02-1023-0925	ROLLOR BEARING NU304M G-208	Nos.	2	2					
1868	02-1023-0938	GASKET G-221	Nos.	2	2					
1869	02-1023-0940	PACKING G-223	Nos.	1	1					
1870	02-1023-0941	PACKING G-224	Nos.	2	2					
1871	02-1023-0942	PACKING G-225	Nos.	2	2					
1872	02-1023-0943	PACKING G-226	Nos.	2	2					
1873	02-1023-0944	SLOT WEDGE G-227	Nos.	10	10					
1874	02-1023-0945	LINER 1=2.5MM G-228	Nos.	5	5					
1875	02-1023-0947	SLIDE STRIP G-230	Nos.	14	14					
1876	02-1023-0948	SLIDE STRIP G-231	Nos.	14	14					
1877	02-1023-0949	SLIDE STRIP G-232	Nos.	14	14					
1878	02-1023-0950	SLIDE STRIP G-233	Nos.	14	14					
1879	02-1023-0951	Top Nipple Spring G-233	Set	24	24					
1880	02-1023-0952	SPACER G-235	Nos.	96	96					
1881	02-1023-0959	SLOT WEDGE G-243	Nos.	240	240					
1882	02-1023-0960	SLOT WEDGE G-244	Nos.	76	76					
1883	02-1023-0961	SLIDE STRIP G-246	Nos.	66	66					
1884	02-1023-0962	SEAL STRIP L=680 G-247	Nos.	4	4					
1885	02-1023-0964	PACKING 1.5x100x100 G-249	Nos.	1	1					
1886	02-1023-0965	PACKING G-250	Nos.	2	2					
1887	02-1023-0966	PACKING 1.5x100x100 G-251	Nos.	1	1					
1888	02-1023-0967	LINER G-252	Nos.	1	1					
1889	02-1023-0968	GASKET G-253	Nos.	2	2					
1890	02-1023-0969	INSULATION TUBE 15.8/12.2x57 G-254	Nos.	4	4					
1891	02-1023-0970	INSULATION WASHER M12 G-255	Nos.	8	8					
1892	02-1023-0972	PACKING 2XD15-4/D12.2 G-257	Nos.	2	2					
1893	02-1023-0973	PACKING RING G-258	Nos.	1	1					
1894	02-1023-0974	CLAW WASHER M4 G-259	Nos.	7	7					
1895	02-1023-0975	PACKING 1X50X300 G-260	Nos.	1	1					
1896	02-1023-0977	INSULATION HOSE L=315 G-262	Nos.	2	2					
1897	02-1023-0978	PACKING 2XD73/D54 G-263	Nos.	2	2					
1898	02-1023-0979	SPRING WASHER M6 G-264	Nos.	8	8					
1899	02-1023-0980	CABLE GRAND G-265	Nos.	4	4					
1900	02-1023-0981	PROTECTION TAPE 0.13X19X30MX1KO G-266	Nos.	1	1					
1901	02-1023-0983	PACKING G-268	Nos.	1	1					
1902	02-1023-0984	PROTECTION TAPE 0.13X19X30MX1KO G-269	Nos.	1	1					
1903	02-1023-0985	INSULATION TUBE G-270	Nos.	2	2					
1904	02-1023-0986	SET SCREW M5X8 G-271	Nos.	2	2					
1905	02-1023-1005	O-RING P-60 N G-290	Nos.	5	5					
1906	02-1023-1006	O-RING P-50 AN G-291	Nos.	10	10					
1907	02-1023-1010	O-RING P- 210 N G-295	Nos.	1	1					
1908	02-1023-1011	O-RING P-16 N G-296	Nos.	2	2					
1909	02-1023-1012	PACKING 15 G-297	Nos.	1	1					
1910	02-1023-1013	PACKING 15 G-298	Nos.	2	2					
1911	02-1023-1014	PACKING 15 G-299	Nos.	2	2					
1912	02-1023-1015	O-RING P-60 N G-300	Nos.	1	1					
1913	02-1023-1016	PACKING WASHER G-301	Nos.	1	1					
1914	02-1023-1017	PACKING 23 G-302	Nos.	1	1					
1915	02-1023-1018	O-RING P-60 N G-303	Nos.	2	2					
1916	02-1023-1021	O-RING P-16 N G-306	Nos.	2	2					
1917	02-1023-1022	O-RING P-13 N G-307	Nos.	3	3					
1918	02-1023-1023	O-RING P-60 N G-308	Nos.	3	3					

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1	2	3	4	5	6	7	8	10	11	12
1919	02-1023-1025	O-RING P-60 N G-310	Nos.	6	6					
1920	02-1023-1028	O-RING P-80 N G-313	Nos.	10	10					
1921	02-1023-1030	O-RING P-80 N G-315	Nos.	30	30					
1922	02-1023-1031	O-RING P-60 N G-316	Nos.	14	14					
1923	02-1023-1032	O-RING P-50 N G-317	Nos.	8	8					
1924	02-1023-1033	O-RING P-45 N G-318	Nos.	8	8					
1925	02-1023-1034	O-RING P-40 N G-319	Nos.	10	10					
1926	02-1023-1036	O-RING P-16 N G-321	Nos.	20	20					
1927	02-1023-1037	O-RING P-375 N G-322	Nos.	1	1					
1928	02-1023-1039	O-RING P-95 N G-324	Nos.	3	3					
1929	02-1023-1040	O-RING A=5.7 M=239.3 G-325	Nos.	5	5					
1930	02-1023-1041	TONGUED WASHER M20 G-326	Nos.	52	52					
1931	02-1023-1042	CONED DISC SPRING G-327	Nos.	74	74					
1932	02-1023-1048	PROTECTIVE BOARD 1.6X236X600 G-333	Nos.	1	1					
1933	02-1023-1049	PROTECTIVE BOARD 1.6X1000X1550 G-334	Nos.	2	2					
1934	02-1023-1050	PROTECTIVE BOARD 1.6X300X1250 G-335	Nos.	2	2					
1935	02-1023-1051	PROTECTIVE BOARD 1.6X1000X1550 G-336	Nos.	6	6					
1936	02-1023-1054	PROTECTIVE BOARD 1.6X310X1460 G-339	Nos.	2	2					
1937	02-1023-1055	PIN 10X80 G-340	Nos.	6	6					
1938	02-1023-1056	PIN 6X50 G-341	Nos.	16	16					
1939	02-1023-1057	PIN 8X60 G-342	Nos.	4	4					
1940	02-1023-1059	Packing G-344	Nos.	2	2					
1941	02-1023-1060	Packing G-345	Nos.	2	2					
1942	02-1023-1076	LEVEL CHOCK STAND FOR HORIZONTAL FLANGE	Nos.	2	2					
1943	02-1023-1077	WATER LEVEAL MEASURING DEVICE	Nos.	1	1					
1944	02-1023-1081	TOUCH PAINT (450g CAN)	Nos.	5	5					
1945	02-1023-1082	LOCKTITE 271 (50CCTUBE)	Nos.	5	5					
1946	02-1023-1083	WELDING ROD TGS316L	Kg	5	5					
1947	02-1023-1084	WELDING ROD NC-36L	Kg	10	10					
1948	02-1023-1162	Driving Chain of S. W	SETS	10	10					
1949	02-1023-1163	Inlet Valve Gate	SETS	5	5					
1950	02-1023-1164	Inlet Valve Gate	SETS	5	5					
1951	02-1023-1165	Stop Valve Dn:300	SETS	2	2					
1952	02-1023-1166	Inside Element Of MFW (Regulating Valve)	SETS	2	2					
1953	02-1023-1168	Easy-Damage Elem of Reg V.V	SETS	1	1					
1954	02-1023-1169	Solenoid Check V.V	SETS	1	1					
1955	02-1023-1176	Seamiless Pipe 76x7.5	Mtrs	50	50					
1956	02-1023-1183	Carbon Round Steel	Kg	200	200					
1957	02-1023-1184	Alloy Round Steel	Kg	400	400					
1958	02-1023-1185	Alloy Round Steel	Kg	382	382					
1959	02-1023-1186	Alloy Round Steel	Kg	150	150					
1960	02-1023-1187	Alloy Round Steel	Kg	56	56					
1961	02-1023-1188	Alloy Round Steel	Kg	176	176					
1962	02-1023-1194	MTZB Blowoown V.V	Nos	4	4					
1963	02-1023-1196	Electrode dia2.5	Kg	10	10					
1964	02-1023-1197	Electrode dia J507 dia2.5	Kg	15	15					
1965	02-1023-1198	Electrode R317 dia3	Kg	10	10					
1966	02-1023-1200	Electrode A132 dia 3MM	Kg	6	6					
1967	02-1023-1201	Gas Electrode 13CRMO dia2	Kg	35	35					
1968	02-1023-1202	Gas Electrode 12CRMOV dia3MM	Kg	25	25					
1969	02-1023-1205	SCREW FUSE SOCKET RLI-60	Pcs	20	20					
1970	02-1023-1206	SCREW FUSE SOCKET RLI-60	Pcs	30	30					
1971	02-1023-1207	PROCELAIN FUSE TUBE	Pcs	180	180					
1972	02-1023-1208	PROCELAIN FUSE TUBE	Pcs	260	260					
1973	02-1023-1209	PUSH BUTTON	Pcs	6	6					
1974	02-1023-1210	FUSE TUBE	Pcs	10	10					
1975	02-1023-1215	Insulation Water Pipe (550-650)	Pcs	49	49					
1976	02-1023-1216	CHANGEOVER SWITCH	Pcs	20	20					
1977	02-1023-1217	CHANGEOVER SWITCH	Pcs	20	20					
1978	02-1023-1220	AUX RELAY	Pcs	4	4					

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1	2	3	4	5	6	7	8	10	11	12
1979	02-1023-1228	POST INSULATOR	Pcs	60	60					
1980	02-1023-1229	POST INSULATOR	Pcs	60	60					
1981	02-1023-1231	MOVABLE CONTACT FOR FIELD BREA	Pcs	10	10					
1982	02-1023-1232	STATIC CONTACT FOR FIELD BREAKE	Pcs	10	10					
1983	02-1023-1233	SIGNAL FUSE	Pcs	17	17					
1984	02-1023-1234	TRIODE	Pcs	4	4					
1985	02-1023-1237	FAST FUSE RS3-750v/700A	Pcs	30	30					
1986	02-1023-1253	OIL PROOF RUBBER BAR dia 16,10mm	Kg	92	92					
1987	02-1023-1254	OIL PROOF RUBBER BAR dia 18,10mm	Kg	100	100					
1988	02-1023-1255	OIL PROOF RUBBER BAR dia 24,10mm	Kg	95	95					
1989	02-1023-1256	OIL PROOF RUBBER BAR dia26,10m	Kg	100	100					
1990	02-1023-1262	CHANG OVER BREAKER LWX2-W-26	Pcs	5	5					
1991	02-1023-1263	CHANG OVER BREAKER LWX2-W-26/A-2.2/FB-X	Pcs	4	4					
1992	02-1023-1264	CHANG OVER BREAKER LWX2-Wo9A-2.2/FB-X	Pcs	4	4					
1993	02-1023-1265	CHANG OVER BREAKER ZD52/400 24vAC	Pcs	4	4					
1994	02-1023-1272	CHANGE OVER BREAKER LWX2-H1111111/f7-8x	Pcs	2	2					
1995	02-1023-1273	CHANGE OVER BREAKER LWX2-H-222222/f7-8x	Pcs	2	2					
1996	02-1023-1274	CHANGE OVER BREAKER LWX2-1/F4-X	Pcs	10	10					
1997	02-1023-1275	CHANGE OVER BREAKER LWX2-2.2/f4-8x	Pcs	18	18					
1998	02-1023-1276	CHANGE OVER BREAKER LWX2-111122/f4-8x	Pcs	4	4					
1999	02-1023-1277	A.C. CONTACTOR	Pcs	2	2					
2000	02-1023-1278	C.T LM 0.5-400-600/5	SETS	6	6					
2001	02-1023-1279	CHANGE OVER BREAKER LW5-15/55Q	Pcs	6	6					
2002	02-1023-1284	FUSE TUBE RTO- 100/60	Pcs	40	40					
2003	02-1023-1377	WOOL GASKET	M2	1	1					
2004	02-1023-1386	POLYTHERA FLUORO ETHYLENE PLATE	Kgs	17	17					
2005	02-1023-1391	ZINC COATED IRON WIRE	Kgs	762	762					
2006	02-1023-1396	STEEL ROPE 6X37+1 1/2,300	Kgs	300	300					
2007	02-1023-1398	CLIPS 30MM	Kgs	6	6					
2008	02-1023-1401	ELECTRIC WELDING ROD 3.2mmdia	Kgs	75	75					
2009	02-1023-1402	ELECTRIC WELDING ROD 4mm dia	Kgs	35	35					
2010	02-1023-1405	ELECTRIC WELDING ROD ZH4 308 3mm dia	Kgs	3	3					
2011	02-1023-1407	ELECTRIC WELDING ROD RE327 3mm dia	Kgs	50	50					
2012	02-1023-1409	SILVER WELDING POWDER 40%,3m/M	Kgs	1	1					
2013	02-1023-1410	SILVER WELDING POWDER	Kgs	2	2					
2014	02-1023-1412	ALLAY STEEL ROUND 1CR13 45	Kgs	149	149					
2015	02-1023-1413	ALLAY STEEL ROUND 1CR13 60	Kgs	408	408					
2016	02-1023-1414	ALLAY STEEL ROUND 1CR13 95	Kgs	400	400					
2017	02-1023-1416	ALLAY STEEL ROUND 25crMoiv 40	Kgs	360	360					
2018	02-1023-1417	Alloy Stud Round 25 GM01Y 60	Kgs	110	110					
2019	02-1023-1430	Diaphragm Steam Seal ring Dwg.69.100.1Z	Set	6	6					
2020	02-1023-1431	Diphram Steam Seal Ring Dwg.69.100.2Z	Set	8	8					
2021	02-1023-1432	Steam seal ring DWG#100 3Z.	Ring	10	10					
2022	02-1023-1433	Steam Seal Rings(DWG:#69.100Z(B)LOTB)55.100.4Z(Stage-20)	Ring	6	6					
2023	02-1023-1434	Steam seal ring DWg#69.1006Z	Set.	1	1					
2024	02-1023-1435	Steal seal ring DWg#69.100 6Z	Set	1	1					
2025	02-1023-1436	Spare Parts for I.P Turbine Gland Ring 69-100-77	Set.	1	1					
2026	02-1023-1437	Stage 25 Diaphragm Steam Seal Ring Dwg.69.100.8Z	Set	1	1					
2027	02-1023-1438	Spare Parts for I.P Turbine Gland Ring 69-100-9Z	Set	2	2					
2028	02-1023-1439	Spare Parts for I.P Turbine Gland Ring 69-100-10Z	Set	2	2					
2029	02-1023-1440	Spare Parts for I.P Turbine Gland Ring 69-100-11Z	Set	1	1					
2030	02-1023-1441	Spare Parts for I.P Turbine Gland Ring 69-100-12Z	Set	2	2					
2031	02-1023-1442	SPRING PIECES 69.100.014	NO.	72	72					
2032	02-1023-1443	Spare Parts for I.P Turbine Gland Ring DWG#55.100.021	Nos	168	168					
2033	02-1023-1446	Spare Parts for I.P Turbine Spring pieces 69-100-013	Pcs	96	96					
2034	02-1023-1447	Plug DWG No.55.100.022	Nos	96	96					
2035	02-1023-1448	GASKET 00.102.041	NO.	12	12					
2036	02-1023-1449	Gasket Dwg No.00.102.037	Nos	12	12					
2037	02-1023-1450	Gas ket 00.102.031	NO.	40	40					
2038	02-1023-1451	Gas ket 00.102.039	NO.	16	16					

KHALID HUSSAIN
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/ STOCK VERIFIER .

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1	2	3	4	5	6	7	8	10	11	12
2039	02-1023-1452	Gas ket 00.102.033	NO.	12	12					
2040	02-1023-1455	Spare Parts for I.P Turbine Screw GB 66-68	Pcs	500	500					
2041	02-1023-1456	Lock Gasket Dwg No.00.100.15	Nos	20	20					
2042	02-1023-1457	Lock Gasket	NO.	16	16					
2043	02-1023-1458	Lock Gasket Dwg.00.100.14	Nos	22	22					
2044	02-1023-1459	Support Pin Dwg No.55.100.023	Nos	104	104					
2045	02-1023-1460	Nut Dwg No.GB55-56	Nos	4	4					
2046	02-1023-1461	Gaskit Dwg No.GB854.67	Nos	4	4					
2047	02-1023-1462	Fixed Bolt Dwg No.69.100.015	Nos	2	2					
2048	02-1023-1464	BOLT M30	NO.	2	2					
2049	02-1023-1466	Gland I.P GOV.END Gland Ring Dwg.69-068-14Z	Set	8	8					
2050	02-1023-1467	Gland I.P GOV.END Gland Ring Dwg.69-068-15Z	Set	1	1					
2051	02-1023-1468	Gland Seal(DWG#69.068-Z-I(B)69.068.16Z	Set	2	2					
2052	02-1023-1469	Spring Per Dwg.69.068.110	Nos	96	96					
2053	02-1023-1470	Spring Per Dwg.69.068.111	NO.	156	156					
2054	02-1023-1481	Stud M 12x 35	NO.	16	16					
2055	02-1023-1486	WELDING ELETROD 3.2 A 507	KG	10	10					
2056	02-1023-1487	Nut GB51-66	Pcs	20	20					
2057	02-1023-1489	WELDING ELETROD 3.2 A 507	KG	10	10					
2058	02-1023-1490	Gland Ring 69.069-13Z	Set	6	6					
2059	02-1023-1491	GLAND RING (69.069..147)	RING	1	1					
2060	02-1023-1492	GLAND RING 69.069-15Z	Set	3	3					
2061	02-1023-1517	Spare Parts for I.P Turbine Cap Nut 00-011-026	Pcs	1	1					
2062	02-1023-1526	Lock Gaskit 00.102.021	Nos	14	14					
2063	02-1023-1528	Spare Parts for I.P Turbine screw GB 65-66	Pcs	20	20					
2064	02-1023-1529	ELECTRODE J422 dia 3	kg	45	45					
2065	02-1023-1531	LOCATING RINGS	NO	1	1					
2066	02-1023-1537	SPECIAL STUD M42X130	Nos	11	11					
2067	02-1023-1539	SPECIAL STUD M22X240	NO	4	4					
2068	02-1023-1540	SPECIAL NUT M42	NO	17	17					
2069	02-1023-1541	SPECIAL TAPER PIN	NO	2	2					
2070	02-1023-1543	SPECIAL STUD M42X150	NO	60	60					
2071	02-1023-1547	UPPER SPECIAL WASHER	NO	8	8					
2072	02-1023-1548	SPECIAL STUD	NO	1	1					
2073	02-1023-1550	SPECIAL STUD M52X285	NO	4	4					
2074	02-1023-1551	LOWER SPECIAL WASHER	NO	11	11					
2075	02-1023-1561	Gland Ring 69.066-5Z	Set	18	18					
2076	02-1023-1562	Gland Ring 69.066-6Z	Set	2	2					
2077	02-1023-1563	Hp Cylinder fron steam seal leaf spring Dwg.69.066.011	Pcs	180	180					
2078	02-1023-1565	Gland Ring 69.067-4Z	Set	8	8					
2079	02-1023-1566	Gland Ring 69.067-5Z	Set	2	2					
2080	02-1023-1567	Spring Pes 00.071.011	Nos	180	180					
2081	02-1023-1569	HYP Cylinder Shopt lead Pipe Stud DWG:55.085.008.M48	Pcs	6	6					
2082	02-1023-1572	PISTON RING	NO	26	26					
2083	02-1023-1573	Nut M-48	NO	59	59					
2084	02-1023-1575	JACKING SCREW	NO	9	9					
2085	02-1023-1576	SPECIALTAPPER PIN	NO	12	12					
2086	02-1023-1583	HP Cylinder front/rear Steam Seal Ring Dwg 69.070.2Z	Set	4	4					
2087	02-1023-1584	LP Cylinder Steam Seal Ring Dwg 69.070.3Z	Set	4	4					
2088	02-1023-1585	LEAF Springs(DWG#69.070-Z(B) 69.070.005	Nos	48	48					
2089	02-1023-1586	Steam Seal Ring Leaf Ring Dwg No.00.071.016	Pcs	48	48					
2090	02-1023-1594	Heater for casing Bolt 1-135,l235,N-800w	NO	5	5					
2091	02-1023-1595	Heater for casing Bolt 1205,l435,N -135,L285,N-800W	NO	3	3					
2092	02-1023-1597	Sstud Electric Heater I-540,L535.N=2450W	NO	4	4					
2093	02-1023-1598	CONTROL VALVE STEM Dwg.No.55.301.115	NO	4	4					
2094	02-1023-1599	STOP VALVE STEM	NO	2	2					
2095	02-1023-1600	Special Nut Dwg No.55.301.171	Nos	4	4					
2096	02-1023-1603	Valve Stem Seleve	Nos	4	4					
2097	02-1023-1605	COMB OIL RING	NO	1	1					
2098	02-1023-1611	Hex: Head Screw 8x35	NO	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2099	02-1023-1619	ROTING BLADES FOR THE 32TH	NO	47	47					
2100	02-1023-1622	RIVET FOR THE 27TH,32TH STAGE Dia-21x178 69.203.024	NO	127	127					
2101	02-1023-1623	RIVET FOR THE 27TH,32TH STAGE ARCH SHG	NO	300	300					
2102	02-1023-1624	LACING FOR THE 27TH,32TH STAGE	NO	4	4					
2103	02-1023-1626	LACING SLEEVE (DRW-69.203.033) FOR THE 27TH STAGE	NO	24	24					
2104	02-1023-1627	PLUG OF LOCING FOR THE 27TH,32TH STAGE	NO	4	4					
2105	02-1023-1630	LACING 69.203.129	NO	2	2					
2106	02-1023-1632	PLUG OF LACING Stage Gag 69.203.134	NO	2	2					
2107	02-1023-1637	Screw M4x12 GB-68-66	Nos	500	500					
2108	02-1023-1639	Nut M-16 GB-51-66	Nos	4	4					
2109	02-1023-1650	Gaskit 00-102-036	Nos	2	2					
2110	02-1023-1659	Screw M 12x50 Dwg No.GB.65.66	Nos	20	20					
2111	02-1023-1665	Nut M-16	Nos	2	2					
2112	02-1023-1666	Bolt Dwg No.GW21-66	Nos	4	4					
2113	02-1023-1678	SCREW M24 X100	NO	2	2					
2114	02-1023-1683	VALVE DISC 150	NO	2	2					
2115	02-1023-1684	VALVE DISC 150(Dwg.55.301.008 150 30Cr2Mov	Pcs	3	3					
2116	02-1023-1685	GLAND SLEEVE	NO	32	32					
2117	02-1023-1686	ADJUSTING GASKET	NO	4	4					
2118	02-1023-1687	ADJUSTING GASKET	NO	4	4					
2119	02-1023-1688	PRESSING COVING	NO	4	4					
2120	02-1023-1691	Gaskit 55.301.123	NO	3	3					Foc
2121	02-1023-1694	SCREW PLUG Dwg.No.55.301.112	NO	4	4					
2122	02-1023-1695	SPECIAL NUT M56 X 4-2 A	NO	2	2					
2123	02-1023-1696	SPECIAL NUT M56X4-2A	NO	38	38					
2124	02-1023-1698	VALVE SEAT	NO	2	2					
2125	02-1023-1700	GLAND SLEEVE	NO	18	18					
2126	02-1023-1701	Toot Shape gasket Dwg.55.0301.043 125x95x4 Icr18Ni9Ti	Pcs	2	2					
2127	02-1023-1704	JACKING SCREW	NO	8	8					
2128	02-1023-1707	SPECIAL WASHER	NO	4	4					
2129	02-1023-1708	CLAMPING RING	NO	8	8					
2130	02-1023-1709	BUSHING SLEEVE	NO	4	4					
2131	02-1023-1711	Split Pin Dwg.No.GB91-67	Nos	4	4					
2132	02-1023-1712	Sp:Washer 55-314-002	NO	4	4					
2133	02-1023-1716	SPECIAL STUD M56 X 4-2A (Dwg.55.306.018)	NO	50	50					
2134	02-1023-1717	SPECAIL CAP NUT M56 X 4-2 A (Dwg.55.306.019)	NO	76	76					
2135	02-1023-1720	GLAND SLEEVE	NO	16	16					
2136	02-1023-1721	FLANGE	NO	1	1					
2137	02-1023-1728	VALVE IDSC 440	NO	1	1					
2138	02-1023-1729	SPECIAL BOLT M42 X 3	NO	8	8					
2139	02-1023-1730	WASHER	NO	12	12					
2140	02-1023-1733	Cap Nut With Hole M30 00.011.047	Nos	4	4					
2141	02-1023-1734	Heater For Casing Bolt l.775 N=4000	Nos	10	10					
2142	02-1023-1736	2500 V44 A105Lift Check SW Valve	Nos	5	5					
2143	02-1023-1737	2500 V25 A105Lift Check SW Valve	Nos	3	3					
2144	02-1023-1749	Thermal Relay JR-16B-20/3D	Nos	9	9					
2145	02-1023-1750	Thermal Relay JR-16B-60/3D	Nos	4	4					
2146	02-1023-1751	Thermal Relay JR-16B-20/3D	Nos	7	7					
2147	02-1023-1752	Thermal Relay JR-16B-60/3D	Nos	6	6					
2148	02-1023-1753	Thermal Relay JR-16B-20/3D	Nos	9	9					
2149	02-1023-1754	Thermal Relay JR-16B-60/3D	Nos	5	5					
2150	02-1023-1788	Bearing Shell	Nos	1	1					
2151	02-1023-1796	Bearing Cover With Screw Consisatings	Set	1	1					
2152	02-1023-1800	Bearing Cover for Out Put D230x25	Set	1	1					
2153	02-1023-1807	Adjusting Ring With Set Screw on Set	Set	1	1					
2154	02-1023-1808	Control block Hosing VC-Nr=4,1011870	Nos	1	1					
2155	02-1023-1809	Scale With Controler Suck Screw	Nos	1	1					
2156	02-1023-1810	O-Ring 1,2,3x2,4	Nos	1	1					
2157	02-1023-1811	O-Ring 115x3	Nos	1	1					
2158	02-1023-1812	Control Piston D66x157	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2159	02-1023-1813	Control Sleeve D80x216	Nos	1	1					
2160	02-1023-1814	Sping Bearing Plate D78x10	Nos	1	1					
2161	02-1023-1815	Cyl: Comprassing Spring 3x30x98	Nos	4	4					
2162	02-1023-1818	Cyl:Compressing Spring 5,0x30x11x92	Nos	3	3					
2163	02-1023-1819	Bush D74/6x128	Nos	1	1					
2164	02-1023-1820	Piston	Nos	1	1					
2165	02-1023-1821	Circhip 10x2	Nos	4	4					
2166	02-1023-1822	Throtlle Screw M36x5x35	Nos	1	1					
2167	02-1023-1826	Guide Plate 45x60x37	Nos	1	1					
2168	02-1023-1827	Adjusting Cover 205x50x20	Nos	1	1					
2169	02-1023-1829	Indicator 16x110	Nos	1	1					
2170	02-1023-1838	Over Flkow Valve Compl:124x45x185	Nos	1	1					
2171	02-1023-1840	Angle Regulating Valve for Reversiable Double Filtter Type SV,NW	Nos	2	2					
2172	02-1023-1841	Housing With Way Cook for Reversiable Double Filtter Type SV,NW	Nos	1	1					
2173	02-1023-1844	Labyrith Disc D220/120x15	Nos	1	1					
2174	02-1023-1846	Shainger Ring D-160/120x21	Nos	1	1					
2175	02-1023-1847	Sealing Ring A14x18	Nos	1	1					
2176	02-1023-1850	Turbine Bearing No-2 Dia 250mm Dring No.69.052 Z (13)	Set	1	1					
2177	02-1023-1902	Fine Typer Piper 20 Dia 60x6.5	Meter	14	14					
2178	02-1023-1904	Allery Steel Round 38Cr moA1 A50	Kgs	300	300					
2179	02-1023-1905	Allery Steel Round 38Cr Mo A1 A60	Kgs	600	600					
2180	02-1023-1907	Cooling Water Tube 24.8 x 21.8 x 9500	Nos	512	512					
2181	02-1023-1908	Cooling Water Tube Cooper 24.8 x 21.8 x 9500	Nos	798	798					
2182	02-1023-1913	RotorSuportBearingForRegeneratorAirPreHeaterT=26VIX-2550-S294-500	Nos	2	2					
2183	02-1023-1922	Bearing 85mm (DWG-69.401-2Z)	Nos	2	2					
2184	02-1023-1983	Rotor Guide Bearing for Pre-Heater 23060 bkc3 T-26-VIX 2550	Pcs	1	1					
2185	02-1023-2001	Tooth ShapeGaske forHp Cylinder DWG-55.011.038 360x300x4 5 icr13	Pcs	4	4					
2186	02-1023-2002	Tooth ShapeGaske forHp Cylinder DWG-22.301.027 245x200x4.5 1cr13	Pcs	14	14					
2187	02-1023-2004	HP Cylinder Temp:lead wire FlangeToothShape gasket 140x100x41cr13	Pcs	1	1					
2188	02-1023-2005	HP Cylinder drial Flange Tooth Shape Gasket 60x30x3.5 1cr13	Pcs	1	1					
2189	02-1023-2009	HP Cylinder Short lead pipe nut M42	Pcs	18	18					
2190	02-1023-2010	Stage 26 Moving Blade Dwg.69.203.104	Pcs	8	8					
2191	02-1023-2011	Stage 26 Moving Blade Rivet (semi Finished Product) 25Cr2M0VA	Pcs	60	60					
2192	02-1023-2013	Pre - Inlet Valve Nut	Pcs	2	2					
2193	02-1023-2017	Roler Redial Bearing 3519	Nos	4	4					
2194	02-1023-2019	Fly Ball Dwg 55.376.004 3Cr13	Pcs	2	2					
2195	02-1023-2020	Guide Shaft Bush Dwg 55.376.005 ZqSn6-6-3	pcs	2	2					
2196	02-1023-2021	Release Spring dwg 55.376.006.606Si2MoA	Pcs	2	2					
2197	02-1023-2022	Limit Bush Dwg 55.376.007 ZQSn6-6-3	Pcs	2	2					
2198	02-1023-2024	Circlip Dwg 55.378.115 Steel Wire	Pcs	4	4					
2199	02-1023-2025	Core bar Dwg 55.378.109 45	Pcs	2	2					
2200	02-1023-2031	Piston Ring Dwg.55.320.049 HT21-40	Pcs	4	4					
2201	02-1023-2032	Pilot Valve	Nos	1	1					
2202	02-1023-2034	Piston Ring Dwg No.55.357.010 HT20-47	Pcs	4	4					
2203	02-1023-2041	L.P Auto Stopper Piston Ring Dwg.55.0307.040 Ht20-40	Pcs	8	8					
2204	02-1023-2042	Special Stud Dwg 69.314z	Pcs	6	6					
2205	02-1023-2044	Frontol Seal ring Dwg .55.401.5z	Pcs	1	1					
2206	02-1023-2045	Rear Oil Seal Ring Dwg.55.401.6Z	Pcs	1	1					
2207	02-1023-2046	Pump Shaft 210	Pcs	1	1					
2208	02-1023-2047	Guide Blade 231	Pcs	12	12					
2209	02-1023-2048	guide Blade Shaft Bush 541	Pcs	10	10					
2210	02-1023-2049	Pump seal Ring 502.1-2	Pcs	12	12					
2211	02-1023-2050	Intermediate Separate Ring 501.2	Pcs	12	12					
2212	02-1023-2051	Intek Section 131	Pcs	2	2					
2213	02-1023-2052	Balance Plate 602	Pcs	2	2					
2214	02-1023-2053	Support Ring 506.1	Pcs	2	2					
2215	02-1023-2054	Spacing Ring 504.2	Pcs	1	1					
2216	02-1023-2056	Shaft Bush 528	pcs	4	4					
2217	02-1023-2059	Filter Core	Set	2	2					
2218	02-1023-2062	Impeller	Pcs	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2219	02-1023-2064	Bearing 22312 BD-1	Set	1	1					
2220	02-1023-2065	Oil Slinger	Pcs	12	12					
2221	02-1023-2067	First Stage Impeller	Pcs	4	4					
2222	02-1023-2068	Secound Stage Impeller	Pcs	4	4					
2223	02-1023-2069	Inducer impeller	Pcs	2	2					
2224	02-1023-2076	EquipmentSparePart:1)MainSteamMotorizedValveDisc ZP62Y-P54 140VDN	Pcs	8	8					
2225	02-1023-2089	Graphite Packing Material (Main Steam Valve) 360x315x22	Kg	10	10					
2226	02-1023-2091	Graphite Packing Material(HP Cylinder exgaut check Valve)97x65x15	Kg	2	2					
2227	02-1023-2092	Graphite Packing Material (Hydraulic Check Valve)38x25x6	Kg	4	4					
2228	02-1023-2094	Graphite Packing Material (Hydraulic Check Valve)32x17x5	Kg	3	3					
2229	02-1023-2095	Graphite Packing Material (MainSteamMotorizedByPassValve)44x28x8	Kg	3	3					
2230	02-1023-2096	Graphite Packing Material(Feed Water Motorized Valve) 86x60x15	Kg	4	4					
2231	02-1023-2097	Graphite Packing Material 58x40x8	Kg	1	1					
2232	02-1023-2098	Graphite Packing Material 67x48x10	Kg	4	4					
2233	02-1023-2099	Graphite Packing Material 56x40x10	Kg	9	9					
2234	02-1023-2100	Graphite Packing Material 35x24x5	Kg	4	4					
2235	02-1023-2101	Graphite Packing Material 33x20x5	Kg	4	4					
2236	02-1023-2102	Graphite Packing Material 52x36x8	Kg	4	4					
2237	02-1023-2103	Graphite Packing Material 26x16x5	Kg	5	5					
2238	02-1023-2104	Graphite Packing Material 48x32x8	Kg	2	2					
2239	02-1023-2106	Graphite Packing Material 48x25x5	Kg	4	4					
2240	02-1023-2107	Graphite Packing Material 45x32x8	Kg	5	5					
2241	02-1023-2109	Dual Spring ratchet bit brace 250mm	Set	1	1					
2242	02-1023-2110	Dual Spring ratchet bit brace 350mm	Set	1	1					
2243	02-1023-2143	WELDING Wire 2.5	Kg	350	350					
2244	02-1023-2144	Electrode 3mm	Kg	80	80					
2245	02-1023-2145	Electrode 4mm	Kg	132	132					
2246	02-1023-2147	Electrode 4mm	Kg	432	432					
2247	02-1023-2148	Electrode 5mm	Kg	520	520					
2248	02-1023-2149	Electrode 4mm	Kg	275	275					
2249	02-1023-2153	Spare Parts for I.P Turbine 20th stage rotating blades 55-202-008	Nos	96	96					
2250	02-1023-2154	Spare Parts for I.P Turbine 21th stage rotating blades 55-202-009	Nos	96	96					
2251	02-1023-2155	Spare Parts for I.P Turbine 22th stage rotating blades 55-202-010	Nos	96	96					
2252	02-1023-2158	Spare Parts for I.P Turbine 20th stage rivet dia 55-202-072	Nos	288	288					
2253	02-1023-2161	Spare Parts for I.P Turbine 21th stage Shrouding 55-202-141	Nos	7	7					
2254	02-1023-2162	Spare Parts for I.P Turbine 21th stage Shrouding 55-202-142	Nos	5	5					
2255	02-1023-2167	Rotating blades for 17th stage 55-202-005	Pcs	118	118					
2256	02-1023-2168	Last blades for 17th stage 55-202-033	Pcs	3	3					
2257	02-1023-2175	Spare Parts for I.P Turbine locking gasket 00-102-22	Pcs	2	2					
2258	02-1023-2176	Spare Parts for I.P Turbine Locking gasket 00-102-021	Pcs	6	6					
2259	02-1023-2178	Spare Parts for I.P Turbine Screw Mx12 GB68-66	Pc	64	64					
2260	02-1023-2180	Spare Parts for I.P Turbine Fasten screw M36X120 B 20-26-72	Pcs	4	4					
2261	02-1023-2184	Locating Bolt M20 00-066-008	PCS	6	6					
2262	02-1023-2185	Spare Parts for I.P Turbine Jacking screw 69-021-054	Pcs	4	4					
2263	02-1023-2186	Spare Parts for I.P Turbine Locating Bolt M27 55-058-017	PCS	1	1					
2264	02-1023-2187	Spare Parts for I.P Turbine Sencer suppor 55-383-001	Pcs	1	1					
2265	02-1023-2188	Spare Parts for I.P Turbine Washer 69-287-105	Pc	1	1					
2266	02-1023-2189	Spare Parts for I.P Turbine special pounch for 16th stage Arch	Set	1	1					
2267	02-1023-2190	Spare Parts for I.P Turbine special pounch 16th stage Arch shroud	Set	1	1					
2268	02-1023-2191	Spare Parts for I.P Turbine 31st stage rotating blades 69-203-109	Nos	44	44					
2269	02-1023-2192	Spare Parts for I.P Turbine 26th & 31st stage rivet dia 19x125	Nos	176	176					
2270	02-1023-2193	Spare Parts for I.P Turbine Rotating Blades 26th stage 69-203-104	Pcs	44	44					
2271	02-1023-2195	Spare Parts for I.P Turbine Fixed position ring for 31 stage	Pc	1	1					
2272	02-1023-2196	Spare Parts for I.P Turbine Fixed position ring 32 stage	Pc	1	1					
2273	02-1023-2197	Spare Parts for I.P Turbine Radial Key 55-277-018	Pcs	2	2					
2274	02-1023-2199	Spare Parts for I.P Turbine Level Key 55-277-020	Pc	1	1					
2275	02-1023-2200	Spare Parts for I.P Turbine Key 55-287-1Z	Pcs	4	4					
2276	02-1023-2205	Steam seal ring DWG#55.100 BZ.	Ring	1	1					
2277	02-1023-2214	VALVE STEAM ARS 112-44/002	Nos	2	2					
2278	02-1023-2215	JET CAGE ARS 112-44/009	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
2279	02-1023-2216	GAS KIT ARS 112-44/013	Nos	6	6					
2280	02-1023-2217	GAS KIT ARS 112-44/051	Nos	8	8					
2281	02-1023-2218	PACKING RING ARS 112-44/044	Nos	29	29					
2282	02-1023-2219	Bolts M22-Tx80/SW-17 ARS 112-447/038	Nos	37	37					
2283	02-1023-2223	GAS KIT ARS 112-44-012	Nos	1	1					
2284	02-1023-2224	BOLT ARS 112-44/012	Nos	20	20					
2285	02-1023-2225	NUT ARS 112-44/019	Nos	20	20					
2286	02-1023-2227	OIL FILTER INSERTS 86-360-001	Nos	6	6					
2287	02-1023-2228	Boiler Feed Pump-Mini Flow Re-Circulation MNFLOW VALVE WITH LEVER	Nos	3	3					
2288	02-1023-2234	ID=28 Nozzle Head	NOS	1	1					
2289	02-1023-2235	ID=25 Nozzle Head	NOS	3	3					
2290	02-1023-2240	Axial Seal Assembly foir Ljustrom 26VI-1370 Air Pre Heters	Sets	2	2					
2291	02-1023-2241	Static seal (Hot & Cold)	Nos	2	2					
2292	02-1023-2242	I-P Cylinder Tooth-Shape Gasket DWG No.55.038.011	Pcs	3	3					
2293	02-1023-2244	Pre - Inlet Valve	Nos	1	1					
2294	02-1023-2246	a) Screen Disk for Strine Seial No.05 (Qty 19Sets One Set Contain	Set	38	38					
2295	02-1023-2247	b)DistributorAssembly for Cationexchanger(Drawing No.878400-1M699	Set	7	7					
2296	02-1023-2248	Cylinder Valve a)Type: SK 800S Size-40A Sr# 82635	Nos	1	1					
2297	02-1023-2249	Cylinder Valve a)Type: SK 800S Size-20A Sr# 82637	Nos	1	1					
2298	02-1023-2254	Spiral Casting for Filling Pump	Nos	3	3					
2299	02-1023-2256	Non-Return Valve for Starting Lubricating Pumps	Nos	6	6					
2300	02-1023-2259	Cooling Water Tube, Brass Tube HSN 701A DRW-N24-00-001	nOS	3,200	3,200					
2301	02-1023-2260	Cooling Water Tube, Brass Tube 25-23-9500	Nos	31,800	31,800					
2302	02-1023-2265	Hexagonal Bar Size-24mm (Corbon Steel)	Kg	389	389					
2303	02-1023-2269	Gear Box Assembly Drawing No.D84-01-0A	Nos	2	2					
2304	02-1023-2270	Travelling Carriage Assembly Drawing No.D84-02-0	Nos	2	2					
2305	02-1023-2271	Furnace WallSootBlowersDwg-72121-0-0(SwivelTube Dwg-721213-11-0A)	Nos	15	15					
2306	02-1023-2272	Blowe for Unit#2-3&4Type=7-10-12 No.4,3ASpeed-2900RPMPower 0.75kw	Nos	3	3					
2307	02-1023-2273	Blower for U#2-3&4 Type-9-19-4 A-1Speed.2840RPM Flow offain.366Pa	Nos	2	2					
2308	02-1023-2274	Cooling Water Pump(Chiller)U#3&4 Type-8SH-9A Capacity.270m3/h	Nos	1	1					
2309	02-1023-2277	Graphite Packing Material Hydraulic Check Valve Dia-25xdia 45x8	Kg	5	5					
2310	02-1023-2278	Gland Fan forU#2-3-4Type-6-9-7 9D-H.1Speed2930RPMFlowofFan780M3/h	Nos	2	2					
2311	02-1023-2279	H.P.Main Steam Regulation Valves Pre-Inlet valve(Dwg-55.301.010)	Pcs	1	1					
2312	02-1023-2281	Pilot Valve No.2 Dwg.No.55.351.1Z 25Cr2MoVA	Pcs	1	1					
2313	02-1023-2282	I.P. Auto Closer Spring and Spering Set Dwg.55.307.1Z	Pc	1	1					
2314	02-1023-2285	Seal Oil System of TurboGeneratorHydrogenSide Screw Pump 3G42x4A	Nos	1	1					
2315	02-1023-2287	Emergency Stoper Leve; No.01	Pc	1	1					
2316	02-1023-2292	Pilot Operated 5-Way Solenoid Valve Mode#-VZ-5143-3GSC	Nos	20	20					
2317	02-1023-2318	Flexible SS Tube for Fuel Oil (Size-25A Dwg.#3B-5504)	Nos	20	20					
2318	02-1023-2319	Flexible SS Tube for HSD Oil (Size-10A Dwg.#3B-5505)	Pcs	4	4					
2319	02-1023-2320	Flexible SS Tube for Steem (Size-25A Dwg.#3B-5504)	Pcs	16	16					
2320	02-1023-2321	Flexible SS Tube for Aspirating Air (Size-10A Dwg.#3B-5505)	Pcs	44	44					
2321	02-1023-2339	Globe Valve (Electric) 50J961Y P54 17V DG-50Temp.540oCPress200Kg	Set	3	3					
2322	02-1023-2341	Board Filter Machine Type-LY-150 Flow:150L/Min Press:.0.33MpaP3KW	Set	1	1					
2323	02-1023-2342	Seamless Pipe 12CrMov Size-89x10mm	Mtr.	7	7					
2324	02-1023-2346	Electrical Butterfly V/V 600D9 41x10 (Motor Driven Actuator)	Set	1	1					
2325	02-1023-2347	ElectricalButterfly V/V ManualDrivenActuatorSealRingBearingRing	Set	1	1					
2326	02-1023-2348	Electrical Butterfly V/V D941 PN6 Dn1400 Manual Driven Actuator	Set	4	4					
2327	02-1023-2349	Electrical Butterfly V/V D941 PN6 Dn1400 Motor Driven Actuator	Set	4	4					
2328	02-1023-2350	Elect:ButterflyV/VD941 PN6 Dn1400SealRingBearingRingSealRingGland	Set	4	4					
2329	02-1023-2365	H.P Connecting Pipe (Parts) U-Ring ST436912 NIMONIC 80A	Nos	3	3					
2330	02-1023-2366	H.PCasingAssemblyCO1R-158ParallelKey23xx50x203ST74400P512CrMovSte	Nos	8	8					
2331	02-1023-2367	H.PCasingAssemblyCO1R-162Key42.5x70.5x1683ST744000P10	Nos	3	3					
2332	02-1023-2369	For H.Pland Paking Cover COR-196 F16x100xM115 ST744000P50 SS50	NOs	2	2					
2333	02-1023-2371	for H.P Inlet Connection COR-198 38x70 ST744000 P52	Nos	24	24					
2334	02-1023-2374	Cylindercal PIN COiR-3417 S.NC 631 16x31.5 ST 744963 Part#201	Nos	16	16					
2335	02-1023-2385	Set Screw CO1iR415 CrmoV Steel M10x14 ST744963 P110	Nos	14	14					
2336	02-1023-2386	Set Screw COir-440 120Mov Steel M12 30 ST744965 P106	Nos	4	4					
2337	02-1023-2387	Set Screw COIR-441 SCM 435 M8x30 ST-744968 P107	Nos	4	4					
2338	02-1023-2395	For LP Casing Assembly COIR-171 KEy 40x50x195 ST744000 P23	Nos	4	4					

KHALID HUSSAIN
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/ STOCK VERIFIER .

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2339	02-1023-2400	Control Plug and stem Item No.15	Nos	1	1					
2340	02-1023-2401	Seat Iten No.16	Nos	1	1					
2341	02-1023-2424	Main Stop Valve With BYpass Valve Dwg-No.ST341355	Nos	2	2					
2342	02-1023-2425	Valve Spindle(with Bypass Valve)Cone Part-3 of ST743552- 2/2	Nos	3	3					
2343	02-1023-2426	Slide Bush Part#14 OG DY743552 2/3	Nos	2	2					
2344	02-1023-2427	Valve Stem Dwg-ST341357 Part#13 of ST742505	Nos	1	1					
2345	02-1023-2428	Valve Cone ST 341357	Nos	2	2					
2346	02-1023-2431	LEVEL GAUGE GLASS Size-34x17x320	Nos	7	7					
2347	02-1023-2432	Level Gauge Mica Gasket Size-34x320x1.15 Mica	Nos	7	7					
2348	02-1023-2433	ForgedSteelStopValveGlobeTypeSizeDia1-1/4"(32mm)fig.w064076z-06ts	Nos	20	20					
2349	02-1023-2434	Moving Coil Type Temp.Indicator Type-XFZ-102 Range-0-100oC	Nos	4	4					
2350	02-1023-2435	PlatinumTher.lResistanceForCirculatingWaterPumpTypeWZPM-001L2500m	Nos	75	75					
2351	02-1023-2437	SuperGear#88PumpDriving#93BevelWheel#91BevelWheel#75ring75a	Nos	6	6					
2352	02-1023-2441	Support Ring Voith Item No.96	Nos	2	2					
2353	02-1023-2445	Bearing No:04	Nos	1	1					
2354	02-1023-2450	Pump Impeller Voith Item No.32	Nos	3	3					
2355	02-1023-2453	Gear Rim Voith Item 1,2,3,4,18,19,22 & 24	Set	1	1					
2356	02-1023-2454	Secoundary Wheel Voith ItemNo.25Cons.of Secoundary Shaft Voith#26	Set	1	1					
2357	02-1023-2463	Balanceing Bellows Stainless Steel Part No.6	Nos	2	2					
2358	02-1023-2464	Diaphragm Viton With Fabric Parts No.11	Nos	2	2					
2359	02-1023-2465	Balanceing Bellows Stainless Steel SUS-316 Part-No.07	Nos	2	2					
2360	02-1023-2466	Daphram Viton With Fabric Parts No.10	Nos	1	1					
2361	02-1023-2468	Flat Gasket Drg-4000 Valqua 1500	Nos	3	3					
2362	02-1023-2469	O-Ring Drg-4120-1 Material NBR	Nos	7	7					
2363	02-1023-2473	O-Ring Drg-4120-5 Material NBR	Nos	1	1					
2364	02-1023-2474	Heically Coiled Insert Drg-9342 Material SUS-304	Nos	3	3					
2365	02-1023-2475	Bearing Bush Drg5450-1 Material S35C/Carbon	Nos	1	1					
2366	02-1023-2476	Bearing Bush Drg5450-2 Material S35C/Carbon	Nos	8	8					
2367	02-1023-2477	Gland Bush Drg-4540 material FC-200	Nos	2	2					
2368	02-1023-2478	Shaft Protect Sleeve Drg5240 Material SUS420J2METCO-2	Nos	1	1					
2369	02-1023-2479	Stage Sleeve Drg-5210 Material CAC406-BC6	Nos	7	7					
2370	02-1023-2480	Bearing Sleeve Drg5290.1 Material SUS420J2	Nos	1	1					
2371	02-1023-2481	A.Bearing Sleeve for Dischare Casing P/No.5290.2 MaterialSUS420J2	Nos	6	6					
2372	02-1023-2482	A.Bearing Sleeve for Bearing Spider P/No.5290.2 MaterialSUS420J2	Nos	3	3					
2373	02-1023-2484	O-Ring Size-5.2x170 Material NBR	Nos	5	5					
2374	02-1023-2486	Welding Electrodes Item#2 Size-ST-16M Dia 3.2mmxL350mm	Kgs	1,235	1,235					
2375	02-1023-2487	Welding Electrodes Item#2 Size-ST-16M Dia 4.0mmxL400mm (	Kgs	400	400					
2376	02-1023-2489	Corrosin Resistance Alloy Steel Plates Size-1000x3000x4.5mm S-ten	Kgs	4,558	4,558					
2377	02-1023-2491	Electrical Butterfly Valve With Actuator Type-D9 41x-10C DN500	Nos	2	2					
2378	02-1023-2493	Soot Blower Model-STR-8E HeadValve(No.770-20736)-	Set	8	8					
2379	02-1023-2496	Globe Valve Size-1-1/4 PAt12518 Class 2500SPL Mat:A105-SW	Pcs	6	6					
2380	02-1023-2497	Needle Valve for Sampling Lack(10mm 3000 Class) P#22384/25	Pcs	14	14					
2381	02-1023-2586	Rotor Support Bearing for Air Pre-Heater Aligning-294/560EMB	Pcs	2	2					
2382	02-1023-2592	Connection RodDrwgCONASSFSNSD4UM30953(ForAirCompressorVS55COL	Pcs	1	1					
2383	02-1023-2603	Connection Rod Drwg.CONASSFSNSD4UM308517	Pcs	1	1					
2384	02-1023-2607	Drwg.3U-14094	Pcs	1	1					
2385	02-1023-2608	Piston Drwg.3U14095	Pcs	1	1					
2386	02-1023-2611	OV 32 Pump Replacement Kit CCI Sulzer ItemNo.103-220-227-200	Nos	3	3					
2387	02-1023-2612	Bolt DIN 912 M16-Tx105 CCI Serial No.ARS 112/059	Nos	48	48					
2388	02-1023-2613	Complete Assembled Bare Steam Valve E 32-3SVBWithout Actuator	Nos	2	2					
2389	02-1023-2616	Actuator for Minimum Flow Recirulation Valve For BFPU#234(K4 F300	Nos	2	2					
2390	02-1023-2620	Blade 32ENF, Including U-bolts, Nuts & Wahser	Nos	12	12					
2391	02-1023-2621	Tag#FV-21A/21B/21C/(Min Flow Vqlves Fisher3" EHT Valve Body	Nos	1	1					
2392	02-1023-2627	Diaphragm for Stge # 2 Dwg No.69 102z	Nos	1	1					
2393	02-1023-2628	Diaphragm for Stge # 3 Dwg No.69 103z	Nos	1	1					
2394	02-1023-2629	Diaphragm for Stge # 4 Dwg No.69 104z	Nos	1	1					
2395	02-1023-2630	Diaphragm for Stge # 5 Dwg No.69 105z	Nos	1	1					
2396	02-1023-2631	Diaphragm for Stge # 6 Dwg No.69 106z	Nos	1	1					
2397	02-1023-2632	Diaphragm for Stge # 7 Dwg No.69 107z	Nos	1	1					
2398	02-1023-2633	Diaphragm for Stge # 8 Dwg No.69 108z	Nos	1	1					

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2399	02-1023-2634	Diaphragm for Stge # 9 Dwg No.69 109z	Nos	1	1					
2400	02-1023-2635	Diaphragm for Stge # 10 Dwg No.69 110z	Nos	1	1					
2401	02-1023-2636	Diaphragm for Stge # 11 Dwg No.69 111z	Nos	1	1					
2402	02-1023-2637	Diaphragm for Stge # 12 Dwg No.69 112z	Nos	1	1					
2403	02-1023-2640	Complete soft kit control plug Stem Tyep-VLBS 100A DWG No.5314769	Kit	1	1					
2404	02-1023-2643	Motorized Gate ValveHS-307with Electic Actuater,Dg:300mmPG25Bar	Nos	2	2					
2405	02-1023-2644	Level Control Double seated Valve 25-250	Nos	1	1					
2406	02-1023-2645	Motorized Gate Valve Model-QHZ961H-25C DN=125mm Pg=25 Bar	Nos	1	1					
2407	02-1023-2646	Stud Electrical Heater Size Dia-22mm Lenght=285mm KW-08 Vot-220V	Nos	10	10					
2408	02-1023-2647	Stud Electric Heater Size Dia-22mm Lenght540mm KW-4	Nos	6	6					
2409	02-1023-2648	Stud Electric Heater Size-dia-22mm Lenght-350mm KW-2.45	Nos	10	10					
2410	02-1023-2649	Gland Heater Type-JQ-100-1 Heat Transfer Surface:100mTube-16x01mm	Nos	3	3					
2411	02-1023-2652	Screw M 12x30 Dwg No.GB.65.66	Nos	20	20					
2412	02-1023-2653	Screw M 12x55 Dwg No.GB.65.66	Nos	12	12					
2413	02-1023-2654	Leg 00-102-062	Nos	20	20					
2414	02-1023-2655	Leg 00-102-061	Nos	20	20					
2415	02-1023-2656	Pin GB-120-66	Nos	1	1					
2416	02-1023-2657	Pre-Inlet Valve Seat Dwg No.55.301.010	Nos	3	3					
2417	02-1023-2658	Pressing Nut Dwg.No.55.301.111	Nos	4	4					
2418	02-1023-2659	Gasket Dwg No.55.301.123	Nos	1	1					
2419	02-1023-2660	Stop Valve Stem Sleeve Dwg.No.55.031.049	Nos	2	2					
2420	02-1023-2661	Nut Dwg No.55.301.055	Nos	4	4					
2421	02-1023-2662	Guide Key Dwg No.55.301.056	Nos	4	4					
2422	02-1023-2663	Clamping Plate Dwg No.55.301.057	Nos	4	4					
2423	02-1023-2664	Bushing Sleeve Dwg No.55.301.174	Nos	4	4					
2424	01-1007-0077	Hydralic Jack/Hydralic Trolies	Nos.	3.00	3.00					
2425	01-1007-0089	Humering O/E Spanner 65mm	Nos	5.00	5.00					
2426	01-1007-0090	Humering O/E Spanner 75mm	Nos	5.00	5.00					
2427	01-1007-0107	Carbon Steel Bar 50 x 1800mm	Nos.	3.00	3.00					
2428	01-1007-0108	Toll Box (Assorted)	Nos.	12.00	12.00					
2429	01-1007-0158	Micro Meter 50~75	Nos.	5.00	5.00					
2430	01-1007-0192	Remmer (Asorted)	Set	1.00	1.00					
2431	01-1007-0194	Tri Squre	Nos.	2.00	2.00					
2432	01-1007-0196	Tuist drill off size	Nos.	22.00	22.00					
2433	01-1007-0197	Punching pillier	Set	1.00	1.00					
2434	01-1007-0199	Steel wadges off size	Nos.	6.00	6.00					
2435	01-1007-0200	Drilling Bar	Set	1.00	1.00					
2436	01-1007-0201	Blage guage	Set	2.00	2.00					
2437	01-1007-0203	Tube expender set	Set	2.00	2.00					
2438	01-1007-0205	Steel punching grade	Set	1.00	1.00					
2439	01-1007-0206	Round file with Hangle	Set	2.00	2.00					
2440	01-1007-0209	Squire Drill Bit 3/4"	Nos.	1.00	1.00					
2441	01-1007-0213	Filler Guage	Nos.	1.00	1.00					
2442	01-1007-0223	Hammering spanner 50mm o/e	Nos.	4.00	4.00					
2443	01-1007-0224	Hammering spanner 46mm o/e	Nos.	3.00	3.00					
2444	01-1007-0225	Hammering spanner 50mm o/e	Nos.	2.00	2.00					
2445	01-1007-0230	Weighing seale 400 gm	Nos.	1.00	1.00					
2446	01-1007-0231	Single end Spanner (Assorted)	Nos.	24.00	24.00					
2447	01-1007-0232	Box spanner with Handle	Nos.	1.00	1.00					
2448	01-1007-0233	Round file Assorted	Nos.	3.00	3.00					
2449	01-1007-0234	Box Socket 2 3/4 1" D	Nos.	2.00	2.00					
2450	01-1007-0236	Box socket 1+" x +"	Nos.	1.00	1.00					
2451	01-1007-0237	Box socket	Nos.	2.00	2.00					
2452	01-1007-0238	Box spanner 65mm	Nos.	1.00	1.00					
2453	01-1007-0239	Box spanner Handle type	Set	1.00	1.00					
2454	01-1007-0240	Reblading tool (3pieces)	Set	1.00	1.00					
2455	01-1007-0243	Fix spanner 60/65mm o/e	Nos.	1.00	1.00					
2456	01-1007-0244	Box socket 1/8"	Nos.	7.00	7.00					
2457	01-1007-0245	Fix Spanner big size	Nos.	2.00	2.00					
2458	01-1007-0247	Fix Spanner medium size	Nos.	3.00	3.00					

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2459	01-1007-0249	Fix Spanner off size/30mm	Nos.	14.00	14.00					
2460	01-1007-0250	Hand vice	Nos.	1.00	1.00					
2461	01-1007-0251	Round Shanko taper drill Dif.siz	Nos.	10.00	10.00					
2462	01-1007-0252	Box spanner Assorted size	Nos.	14.00	14.00					
2463	01-1007-0255	Screw key	Nos.	1.00	1.00					
2464	01-1007-0256	D/E spanner	Nos.	1.00	1.00					
2465	01-1007-0257	Spanner Stare	Nos.	1.00	1.00					
2466	01-1007-0259	Plum bob	Nos.	1.00	1.00					
2467	01-1007-0260	Plum bob	Nos.	1.00	1.00					
2468	01-1007-0261	Angle spanner Hexagonal	Nos.	1.00	1.00					
2469	01-1007-0262	Spanner large size for turbine	Nos.	2.00	2.00					
2470	01-1007-0263	Role punch	Nos.	5.00	5.00					
2471	01-1007-0266	S/E Spanner 70 mm	Nos.	1.00	1.00					
2472	01-1007-0267	S/E Spanner 7/16 x 9/16	Nos.	1.00	1.00					
2473	01-1007-0268	S/E Spanner 68~75	Nos.	2.00	2.00					
2474	01-1007-0269	Spanner for turbine	Nos.	2.00	2.00					
2475	01-1007-0270	S/E Spanner off size 90	Nos.	1.00	1.00					
2476	01-1007-0272	Spanner size 40x42	Nos.	1.00	1.00					
2477	01-1007-0273	Spanner for Turbine	Nos.	1.00	1.00					
2478	01-1007-0275	Ruter Nut Spanner	Nos.	1.00	1.00					
2479	01-1007-0276	Ruter Nut Spanner	Nos.	1.00	1.00					
2480	01-1007-0277	Ruter Nut Spanner	Nos.	1.00	1.00					
2481	01-1007-0280	Contact nut spanner	Nos.	1.00	1.00					
2482	01-1007-0281	Ruter nut spanner 40x42	Nos.	1.00	1.00					
2483	01-1007-0282	D/E Spanner Assorted 41x36	Nos.	9.00	9.00					
2484	01-1007-0283	D/E Spanner 4"	Nos.	1.00	1.00					
2485	01-1007-0284	D/E Spanner 63 x 67	Nos.	1.00	1.00					
2486	01-1007-0285	Special Spanner	Nos.	2.00	2.00					
2487	01-1007-0286	Lifting tools	Nos.	4.00	4.00					
2488	01-1007-0287	Blade setting bar	Set.	1.00	1.00					
2489	01-1007-0288	Drill Guage Complete set	Set.	1.00	1.00					
2490	01-1007-0289	Padestal fan (Unservicable)	Nos.	3.00	3.00					
2491	01-1007-0300	Rechate Spanner 60-75	Nos.	2.00	2.00					
2492	01-1007-0301	Tube expender	Nos.	34.00	34.00					
2493	01-1007-0302	Bit	Nos.	10.00	10.00					
2494	01-1007-0303	Remer-(Mandrals)	Nos.	100.00	100.00					
2495	01-1007-0305	Drill Bit (Assorted)	Nos.	15.00	15.00					
2496	01-1007-0306	Spanner Double 55-60	Nos.	1.00	1.00					
2497	01-1007-0307	Divider	Nos.	1.00	1.00					
2498	01-1007-0308	Spanner (Assorted)	Nos.	24.00	24.00					
2499	01-1007-0309	Rotary Blowear 47m-90A	Nos.	1.00	1.00					
2500	01-1007-0310	Greas Gun	Nos.	10.00	10.00					
2501	01-1007-0311	L-Key Set 20mm	Nos.	48.00	48.00					
2502	01-1007-0312	Hanger Spanner	Nos.	2.00	2.00					
2503	01-1007-0313	Round Cutter	Nos.	3.00	3.00					
2504	01-1007-0314	Dirl Large	Nos.	2.00	2.00					
2505	01-1007-0315	Spanner Double Off Size	Nos.	50.00	50.00					
2506	01-1007-0317	Tool Socket Assorted	Nos.	17.00	17.00					
2507	01-1007-0318	Key Handel	Nos.	1.00	1.00					
2508	01-1007-0321	Hanger Spanner	Nos.	2.00	2.00					
2509	01-1007-0322	Spanner 60B-42	Nos.	1.00	1.00					
2510	01-1007-0323	Reamer Socket (Ascord)	Nos.	21.00	21.00					
2511	01-1007-0324	Grinder k-1200 machine	Nos.	1.00	1.00					
2512	01-1007-0325	Measuring Tape for level guage 14 M	Nos.	1.00	1.00					
2513	01-1007-0326	Lock	Nos.	7.00	7.00					
2514	01-1007-0331	Drill Bits (Asorted)	Nos.	2.00	2.00					
2515	01-1007-0345	Wooden Hammer	Nos.	3.00	3.00					
2516	01-1007-0360	Rope Jack 3Ton	Nos.	2.00	2.00					
2517	01-1007-0376	Flaring Fitting Part	Nos.	1.00	1.00					
2518	01-1007-0384	M.S Bari	Nos.	1.00	1.00					

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2519	01-1007-0387	Wooden Cutter (Assorted)	Nos.	2.00	2.00					
2520	01-1007-0393	Still Rectangular 12"	Nos.	2.00	2.00					
2521	01-1007-0395	Wooden Marker	Nos.	2.00	2.00					
2522	01-1007-0409	Walky Talky	Nos	1.00	1.00					
2523	01-1007-0417	Open/E Spanner 60mm	Nos	2.00	2.00					
2524	01-1007-0419	Open/E Spanner 80mm	Nos	3.00	3.00					
2525	01-1007-0420	H/Spanner 60mm	Nos	1.00	1.00					
2526	01-1007-0421	H/Spanner 70mm	Nos	6.00	6.00					
2527	01-1007-0425	R Spanner 30x32 (Broken)	Nos	1.00	1.00					
2528	01-1007-0444	Pistol Grinder 400w	Nos	2.00	2.00					
2529	01-1007-0446	Burma Set	Nos	8.00	8.00					
2530	01-1007-0458	Urinal	Nos	1.00	1.00					
2531	01-1007-0460	Soliding Gun 100w	Nos	1.00	1.00					
2532	01-1007-0480	Divider 10"	Nos	10.00	10.00					
2533	01-1007-0487	Induction Heater TIH020 Vol.50/6	Nos.	2.00	2.00					01 No. Item is FOC
2534	01-1007-0488	Fitting Tool kit 729125-type1720	Set	1.00	1.00					
2535	01-1007-0489	PVC welding Gun	Nos	1.00	1.00					
2536	01-1007-0495	Loch Wrench	Nos	1.00	1.00					
2537	01-1007-0498	Fix Spanner 9x8mm	Nos	4.00	4.00					
2538	01-1007-0504	Hook Spanner Off Size	Nos	21.00	21.00					
2539	01-1007-0508	Hock spanner HN to drive	Set	1.00	1.00					
2540	01-1007-0509	Oil Injection 729101	Set	3.00	3.00					
2541	01-1007-0531	Change Block 20Ton	Nos	1.00	1.00					
2542	01-1007-0535	Portable Air plusnat Cutting System Max-20	Nos	1.00	1.00					
2543	01-1007-0538	Extension Rod	Nos	1.00	1.00					
2544	01-1007-0541	Hammering Spanner (assorted)	Nos	44.00	44.00					
2545	01-1007-0543	D/Shakle 55T	Nos	14.00	14.00					
2546	01-1007-0545	D. Shakle 2 Ton	Nos	6.00	6.00					
2547	01-1007-0549	Rcken Power (Air Valve)	Nos	1.00	1.00					
2548	1026-3	Foundation main flow pump	Nos	1	1					
2549	1026-8	Colemn pipes of intake water pump	Nos	5	5					
2550	1026-12	Turbain pump with out motor	Nos	2	2					
2551	1026-14	Moter pedistal	Nos	2	2					
2552	1026-16	Recorder	Nos	1	1					
2553	1026-18	recordet 0~400 c	Nos	2	2					
2554	1026-19	Screw position scnser	Nos	2	2					
2555	1026-20	Seanner	Nos	1	1					
2556	1026-23	Gasket	Nos	20	20					
2557	1026-30	Igniting pusher	Nos	14	14					
2558	1026-31	igniting device	Nos	8	8					
2559	1026-45	Lock shim	Nos	2	2					
2560	1206-46	Lock shim	Nos	1	1					
2561	1026-48	Flate key	Nos	1	1					
2562	106-49	Flate key	Nos	1	1					
2563	1026-50	Flate key	Nos	2	2					
2564	1026-100	Bushing sleeve	Nos	2	2					
2565	1026-135	Bearing #3	Nos	1	1					
2566	1026-136	Diaphram carrier no 3 upper parts	Nos	1	1					
2567	1023-137	diaphram carrier no 3 lower part	Nos	1	1					
2568	1026-139	Pedestal of bearing	Nos	2	2					
2569	1026-149	Discharge pipe	Nos	1	1					
2570	1026-150	Shaft enchuser tube (assarted size)	Nos	3	3					
2571	1026-151	Pump foundtion plate	Nos	1	1					
2572	1026-157	Jurnal bearing 360 mm	Nos	1	1					
2573	1026-158	Jurnal bearing 360 mm	Nos	1	1					
2574	1026-160	recoreder 0~400 c	Nos	1	1					
2575	1026-162	Diaphram of IP stage 13 14 15 16 17 18 19	Set	25	25					
2576	1026-174	Shrounding oil device	Set	1	1					
2577	1026-175	Prop shaft oil pump	Nos	4	4					
2578	1026-176	Bottam casing for cooling tower making pump	Nos	1	1					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2579	1026-177	Machi pump with out motor	Nos	2	2					
2580	1026-178	Heater dram pupm with motor 37 kw	Nos	1	1					
2581	1026-179	Impller for cp	Nos	5	5					
2582	1026-181	Jurnal bearing	Nos	2	2					
2583	1026-185	Thurst bearing	Nos	1	1					
2584	1026-186	Bearing shell 159x63 mm	Nos	1	1					
2585	1026-187	Bearing bush	Nos	2	2					
2586	1026-189	Rotor along with impller	Set	2	2					
2587	1026-190	Gear coupling with rotor	Set	1	1					
2588	1026-191	Oil seal right	Nos	2	2					
2589	1026-192	Oil seal left	Nos	2	2					
2590	1026-194	Elastic govrnor	Nos	2	2					
2591	1026-195	Phosphate pump	Nos	4	4					
2592	1026-196	Amonia pump	Nos	4	4					
2593	1026-197	Hydrozen pump	Nos	3	3					
2594	1026-198	Air blower with foundtion of neveragliztion part u 3	Nos	5	5					
2595	1026-210	Butterfly valve 3"	Nos	2	2					
2596	1026-223	Yard pet pump	Nos	2	2					
2597	1026-224	MS shade for injuction pump	Nos	2	2					
2598	1026-225	Siloneer with filler	Nos	10	10					
2599	1026-226	Filter for silioner	Nos	3	3					
2600	1026-227	Ms pipe 2 elbow	Nos	4	4					
2601	1026-228	NAOH Injection pump	Nos	7	7					
2602	1026-231	MS spacer 3"	Nos	6	6					
2603	1026-234	Gate valve 6"	Nos	1	1					
2604	1026-235	Cylender valve 50 mm	Nos	3	3					
2605	1026-237	Plate heat exchanger	Nos	1	1					
2606	1026-240	Oil ring	Nos	1	1					
2607	1026-241	Gear coupling	Nos	1	1					
2608	1026-242	Sealing oil pump	Nos	1	1					
2609	1026-244	Delivery valve	Nos	1	1					
2610	1026-245	Main relay valve	Nos	1	1					
2611	1026-246	Genertor bearing dia420	Nos	1	1					
2612	1026-247	Grinding wheel 150x25x52xmm	Nos	233	233					
2613	1026-250	HP canvarter super heater coil tubes	Nos	1	1					
2614	1026-254	Support Ring Element 301366.021-05	Nos	64	64					
2615	1026-255	Support Ring Element 301319.019	Nos	120	120					
2616	1026-256	Support Slef Element 301319-019.01	Nos	60	60					
2617	1026-257	Support Ring Element 301366.020.03	Nos	51	51					
2618	1026-258	Support Ring Element 301366.021.04	Nos	24	24					
2619	1026-259	Support Ring Element 301366.022	Nos	114	114					
2620	1026-260	Support Ring Element 301366.021	Nos	48	48					
2621	1026-261	Support Ring Element 301366.021.01	Nos	120	120					
2622	1026-262	Support Ring Element 301366.021.02	Nos	60	60					
2623	1026-294	Power Transformer Friquicy 50HZ	Nos	1	1					
2624	1026-295	Pully	Nos	2	2					
2625	1026-296	Tube Expender	Nos	1	1					
2626	1026-297	Radial Bearing Bush	Nos	2	2					
2627	1026-298	Radial Bearing Bush Different Shape & Size	Nos	1	1					
2628	1026-299	Thurst bearing Bush	Nos	1	1					
2629	1026-300	Micro Metter 25~50	Nos	2	2					
2630	1026-301	Micro Metter 25~75	Nos	1	1					
2631	1026-303	Shaft 172x6543 mm	Nos	1	1					
2632	1026-304	Kit for argan	Nos	2	2					
2633	1026-305	Transfarmer power suplly	Nos	1	1					
2634	1026-306	Machine for tube cutting	Nos	1	1					
2635	1026-307	Eleectric winch for instaltion purper	Nos	3	3					
2636	1026-308	Electric hoist 1 tan	Nos	1	1					
2637	1026-309	Electric furnace for calcirntion 140/400 temp	Nos	1	1					
2638	1026-310	Welding equipment	Nos	5	5					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2639	1026-311	Heat tretment equipment1	Nos	1	1					
2640	1026-312	Pully of 5 tan	Nos	5	5					
2641	1026-313	Lifting and hoesting device	Nos	8	8					
2642	1026-314	Hand lever type host 1 tan	Nos	2	2					
2643	1026-315	Hand lever type host 2 tan	Nos	2	2					
2644	1026-316	rack jack 5 tan	Nos	2	2					
2645	1026-317	Crab for monrail 3.2 tan	Nos	1	1					
2646	1026-318	Double station frequncy canvtar	Nos	3	3					
2647	1026-334	Support pipe 34 mm	Nos	31	31					
2648	1026-335	Tube 76x10x2000 mm	Nos	1	1					
2649	1026-336	Tube 133x15x1000 mm	Nos	3	3					
2650	1026-337	Round bar 100x200	Nos	6	6					
2651	1026-338	Round bar 60x1000 mm	Nos	6	6					
2652	1026-344	Tube 747114.209	Nos	66	66					
2653	1026-345	Tube 747114.209-01	Nos	23	23					
2654	1026-346	Tube 747114.209-02	Nos	23	23					
2655	1026-347	Tube 747114-209-03	Nos	24	24					
2656	1026-348	Breaket	Nos	16	16					
2657	1026-349	Breaket	Nos	6	6					
2658	1026-350	Breaket	Nos	6	6					
2659	1026-351	Ring element	Nos	7	7					
2660	1026-352	Round bar 100x200	Nos	2	2					
2661	1026-354	Angle iron 50x75x390	Nos	4	4					
2662	1026-355	Angle iron 40x40x300	Nos	6	6					
2663	1026-359	Tube 377x42 L 1000	Nos	3	3					
2664	1026-360	Sheet 2x100x2000 mm	Nos	2	2					
2665	1026-361	Sheet 6x80x80 mm	Nos	1	1					
2666	1026-364	SHEET S 3	Nos	2	2					
2667	1026-366	Comb 20x20	Nos	1	1					
2668	1026-367	Comb	Nos	1	1					
2669	1026-368	Comb 741391.824	Nos	3	3					
2670	1026-369	Strip 5x200x200 mm	Nos	8	8					
2671	1026-370	Pin m 12	Nos	232	232					
2672	1026-372	Headre 622621.244	Nos	2	2					
2673	1026-374	plate p2	Nos	32	32					
2674	1026-375	Thermal box	Nos	2	2					
2675	1026-376	Pneumatic grinding machine	Nos	8	8					
2676	1026-377	Poratable pneumatic machinefot cutting tube	Nos	3	3					
2677	1026-378	Electric grinding machine	Nos	1	1					
2678	1026-379	Drilling machine	Nos	2	2					
2679	1026-380	Tube end prepation 28~42 mm	Nos	4	4					
2680	1026-381	Tube end prepation 76 mm	Nos	4	4					
2681	1026-382	Primatie cramps for tube	Nos	7	7					
2682	1026-383	Band type cramps 76~78 mm	Nos	4	4					
2683	1026-384	Joint draftting	Nos	3	3					
2684	1026-387	Sheet 350x100x10	Nos	1	1					
2685	1026-388	sheet 40x180x10	Nos	1	1					
2686	1026-389	H beam L5000x240x110 mm	Nos	1	1					
2687	1026-390	Cantrol valve	Nos	9	9					
2688	1026-391	Cantrol valve	Nos	6	6					
2689	1026-392	Sleeve	Nos	6	6					
2690	1026-393	Sleeve	Nos	2	2					
2691	1026-394	Bellow expencsion joint	Nos	2	2					
2692	1026-395	Semi ring	Nos	2	2					
2693	1026-404	Supporting clamp s 8	Nos	47	47					
2694	1026-405	Tube 25x302	Nos	20	20					
2695	1026-406	SHEETS 8X80X120	Nos	6	6					
2696	1026-412	SHEETS 2X100X2000 MM	Nos	13	13					
2697	1026-413	PAKING RING	Nos	18	18					
2698	1026-418	Argan welding wire	Nos	25	25					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2699	1026-422	Sheet 10x150x150 mm	Nos	2	2					
2700	1026-423	Sheets 500x525x8 mm	Nos	4	4					
2701	1026-424	Cost iram weight	Nos	1	1					
2702	1026-425	Cost iram weight	Nos	5	5					
2703	1026-426	Cost iram weight	Nos	1	1					
2704	1026-427	Cost iram weight	Nos	1	1					
2705	1026-428	Face plate	Nos	3	3					
2706	1026-430	D shakle 2 tan	Nos	1	1					
2707	1026-431	D shakle	Nos	1	1					
2708	1026-432	Cable 3 core	Nos	12	12					
2709	1026-435	Sheet 60x80x6 mm	Nos	7	7					
2710	1026-436	Tee od 28 mm	Nos	6	6					
2711	1026-438	Reducer	Nos	2	2					
2712	1026-439	Thermal box	Nos	2	2					
2713	1026-440	Pully of 3 tan	Nos	5	5					
2714	1026-441	Thermal box	Nos	10	10					
2715	1026-442	Transfarmer 300 mi	Nos	3	3					
2716	1026-444	Center panch	Nos	4	4					
2717	1026-445	Hook	Nos	5	5					
2718	1026-446	Instrument connecter	Nos	2	2					
2719	1026-448	Thero well 9"	Nos	4	4					
2720	1026-449	Bend tube 42 mm	Nos	2	2					
2721	1026-451	Temp indeceter	Nos	1	1					
2722	1026-452	Thero couple wire	Mtr.	36	36					
2723	1026-454	Copper nozzle	Nos	3	3					
2724	1026-455	Bushes fasterning beam ss L 40	Nos	199	199					
2725	1026-456	Roller d 16	Nos	18	18					
2726	1026-458	shet 10x150x150 mm	Nos	2	2					
2727	1026-459	Reducer	Nos	2	2					
2728	1026-461	Reducer	Nos	2	2					
2729	1026-462	Tee 42 mm	Nos	3	3					
2730	1026-463	Tee d 28	Nos	1	1					
2731	1026-464	Spray injection nozzle d 30	Nos	3	3					
2732	1026-465	Reducer	Nos	3	3					
2733	1026-467	Tube 30x80 mm	Nos	1	1					
2734	1026-468	Support ring element	Nos	12	12					
2735	1026-469	support ring element	Nos	2	2					
2736	1026-470	Bush 35 mm	Nos	1	1					
2737	1026-471	Ear	Nos	2	2					
2738	1026-472	Coupling 120mm id 20 mm	Nos	1	1					
2739	1026-473	Pully 2 groes with key 30 mm	Nos	1	1					
2740	1026-474	Bush 23x113	Nos	1	1					
2741	1026-475	Bush 40x185	Nos	1	1					
2742	1026-476	Pully	Nos	2	2					
2743	1026-479	Stand with ring	Nos	1	1					
2744	1026-481	Bend 112x18 mm	Nos	1	1					
2745	1026-482	Multi volt meter w-4500	Nos	1	1					
2746	1026-483	Steelo scope inculding	Nos	1	1					
2747	1026-484	Mega ohm meter	Nos	1	1					
2748	1026-486	Device for ultrasonic testing	Nos	1	1					
2749	1026-487	Spare parts of bevting m/c	Nos	33	33					
2750	1026-488	L12 universal welding electrods	Nos	8	8					
2751	1026-490	Alpha numescie staps	Set	1	1					
2752	1026-491	Cuting tools	Nos	55	55					
2753	1026-492	Maeasurment of line and anguler	Nos	4	4					
2754	1026-493	Auctyline gas cutter	Nos	5	5					
2755	1026-494	Gas torch with set of tips	Nos	2	2					
2756	1026-495	Breaker 660 v	Nos	1	1					
2757	1026-496	Pressure reguleter	Nos	5	5					
2758	1026-498	Tungstan rod 2 mm	Kg	0.5	0.5					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2759	1026-499	Argaon welding wire	Mtr.	1.3	1.3					
2760	1026-501	3 Phase motor 380v	Nos	1	1					
2761	1026-502	Journal bearing 360 mm	Nos	1	1					
2762	1026-505	Oil pump	Nos	2	2					
2763	1026-510	Shaft upper for c tower pump 2	Nos	1	1					
2764	1026-511	Suction ball for c tower pump 2	Nos	1	1					
2765	1026-512	Pipe vice	Nos	1	1					
2766	1026-521	IP Turbaine rotor	Set	1	1					
2767	1026-525	Boiler tube 42x5	Mtr.	187	187					
2768	1026-528	Drive unit unit 1	Set	2	2					
2769	1026-529	OIL Circulation system	Set	2	2					
2770	1026-530	Corten plates for housing duckt	Nos	283	283					
2771	1026-532	SS Valve 3"	Nos	3	3					
2772	1026-535	MS pipe 5"	Ft.	7	7					
2773	1026-536	Serviceable pump	Nos	1	1					
2774	1026-537	Levere hosist	Nos	2	2					
2775	1026-538	Levere hosist	Nos	6	6					
2776	1026-539	wire jack	Nos	2	2					
2777	1026-540	Drafting machine	Nos	1	1					
2778	1026-541	Draftin revalving chair	Nos	1	1					
2779	1026-542	Pump motor	Nos	2	2					
2780	1026-543	Stream strap	Nos	9	9					
2781	1026-544	F Gas cylinder empty	Nos	3	3					
2782	1026-545	Tong bar	Nos	1	1					
2783	1026-546	Tong bar	Nos	3	3					
2784	1026-547	Gland paking	Kg	69.5	69.5					
2785	1026-548	Pipe 40 mm	Nos	25	25					
2786	1026-549	Looking glass broken	Nos	28	28					
2787	1026-550	MS Reducer	Nos	6	6					
2788	1026-551	Reducer	Nos	5	5					
2789	1026-552	Reducer	Nos	4	4					
2790	1026-553	Hoist	Nos	3	3					
2791	1026-554	Klire fock	Nos	2	2					
2792	1026-555	Type writer	Nos	2	2					
2793	1026-556	Tong bar	Nos	1	1					
2794	1026-557	Pipe folding chair	Nos	7	7					
2795	1026-558	Boiler dram pit pump	Nos	2	2					
2796	1026-559	Pump shaft 35	Nos	2	2					
2797	1026-560	Shilling rope	Nos	1	1					
2798	1026-561	MCC Braker 60a	Nos	9	9					

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PHYSICAL STOCK VERIFICATION REPORT OF STORE-II JPCL GENCO-I JAMSHORO

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1	02-1002-0132	Sofa Wooden (Single Nos) Black & Brown	Nos	1	1					
2	02-1002-0143	Name Board of CE (Wooden)	Nos	1	1					
3	02-1009-0004	Z- Fold Chart Paper	Nos	105	105					
4	02-1009-0005	Chart Paper for Re-10-recoder Part#120-177	Nos	1,075	1,075					
5	02-1009-0015	Printing Ribbon (Telex machine T-1000) Two Clour	Nos.	14	14					
6	02-1009-0024	Chart Recorder Reel	Nos.	14	14					
7	02-1009-0026	Disk Storage Box	Nos.	2	2					
8	02-1009-0028	Integrated Circuit R2206	Nos.	6	6					
9	02-1009-0035	Main Oil Seal	Nos.	45	45					
10	02-1009-0036	Seal for Actuator	Nos.	156	156					
11	02-1009-0037	Drive Cable for Recorder	Nos.	7	7					
12	02-1009-0040	Pressure Controller Switch	Nos.	11	11					
13	02-1009-0045	Elecrode for PH 6045	Nos.	5	5					
14	02-1009-0046	Elecrode for PH 6403F	Nos.	5	5					
15	02-1009-0047	Fuse Holder	Nos.	8	8					
16	02-1009-0063	Limit Switch with Lever arm and Micro switch DPDT-2 N.C/2 N.O	Nos	40	40					
17	02-1009-0064	Limit Switch with Lever arm and Micro vcl 5001	Nos	18	18					
18	02-1009-0066	Thermo Couple 321	Nos.	9	9					
19	02-1009-0067	Thermo Couple 6 x 2000 K	Nos.	2	2					
20	02-1009-0071	Bimttalic Thermo Couple WZP-600	Nos.	20	20					
21	02-1009-0072	Bimttalic Thermo Couple 1000 mm	Nos.	1	1					
22	02-1009-0073	Valve Control With Limit Switch	Nos.	2	2					
23	02-1009-0074	Vibra Switch Control Limit	Nos.	1	1					
24	02-1009-0079	Preasure Guage 30mm	Nos.	1	1					
25	02-1009-0081	Therma Meter 0~100	Nos.	2	2					
26	02-1009-0082	Level Switch FR-205-1	Nos.	1	1					
27	02-1009-0083	Koso Modle PPA 703-L10	Nos.	1	1					
28	02-1009-0084	Level Switch FR-205	Nos.	1	1					
29	02-1009-0085	Thermo Couple AB 07801	Nos.	1	1					

ZAFARYAB SHAIKH
JUNIOR STORE KEEPER

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
30	02-1009-0088	PH Cell 7082 Series Lead	Nos.	6	6					
31	02-1009-0089	Conductivity Cell 4973	Nos.	2	2					
32	02-1009-0096	Thermo Couple Model 381008	Nos.	4	4					
33	02-1009-0097	Thermo Couple Model PT-100	Nos.	4	4					
34	02-1009-0101	Yarway Guage 7500 12 V	Nos.	45	45					
35	02-1009-0102	Spacer For Ignition	Nos.	50	50					
36	02-1009-0105	Electric Penumatic Transformer	Nos.	3	3					
37	02-1009-0107	Limit Switch LSH 4L	Nos.	19	19					
38	02-1009-0108	Limit Switch Model-ILSI-J Contact Type-2ckt-db Rating-AC125-25	Nos	2	2					
39	02-1009-0109	Limit Switch 5LSI-J	Nos.	31	31					
40	02-1009-0110	Limit Switch BZE-6	Nos.	2	2					
41	02-1009-0115	Funtion Module Part No:8068 . 600	Nos.	4	4					
42	02-1009-0118	Spring Type Pressure Guage Y-150 ZT 760mm,HG 20,1.5	Nos.	5	5					
43	02-1009-0119	Spring Type Pressure Guage YB-150 , 0.4 MMHG 0~760	Nos.	3	3					
44	02-1009-0120	Spring Type Pressure Guage YB-150 1.5	Nos.	5	5					
45	02-1009-0122	Packing Sealing For ASM - 63 -10 / Seat ASM 63-10	Nos.	6	6					
46	02-1009-0124	Seat Set ASM 200-10 Packing Sealing For ASM 200-10	Nos.	1	1					
47	02-1009-0131	Packing v Sealing For BL - 10 - 251 B2 -10 -1 /008	Nos.	4	4					
48	02-1009-0132	Feed Back Complete BGS - 11+4K - 3	Nos.	1	1					
49	02-1009-0136	Packing and Seal for 86-167(Seal Set 86-107)	Nos.	2	2					
50	02-1009-0139	Pump Coupling Half 86 - 167 / 12	Nos.	2	2					
51	02-1009-0140	Motor Coupling Half 86 - 167/7062	Nos.	2	2					
52	02-1009-0142	Suction Filter 86 - 167 / 7037	Nos.	3	3					
53	02-1009-0143	Rubber Pin 86 - 167 / 7064	Nos.	10	10					
54	02-1009-0149	Electric Contract Pressure Type 5.2 (Thermometer)	Nos.	2	2					
55	02-1009-0152	Olympes Video Scope (Long Type)	Nos.	1	1					
56	02-1009-0153	OES Video Image Escope (Control Unit)	Nos.	1	1					
57	02-1009-0154	OES XENON Light Source	Nos.	1	1					
58	02-1009-0155	Siniolates TV moniter Picture With VCR	Nos.	1	1					
59	02-1009-0156	Optional Pless For Iv 1602 / 220	Nos.	1	1					
60	02-1009-0157	A.T 12005 - IV 602	Nos.	1	1					
61	02-1009-0158	AT 1500 - VI 16D2	Nos.	1	1					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
62	02-1009-0159	Insertion Section Centring Devices	Nos.	1	1					
63	02-1009-0160	Invertion Section Centring Devices	Nos.	1	1					
64	02-1009-0161	70 For IV 1602 - 220/MD 368	Nos.	1	1					
65	02-1009-0162	CRM Rotating Mirror adopter Control Unit	Nos.	1	1					
66	02-1009-0163	GROUND FOULT DETECTOR CARD	Nos.	1	1					
67	02-1009-0164	Valve Sefing Module ZDGA - 6000	Nos.	12	12					
68	02-1009-0167	TEU 704 TEMP:TRANS	Nos.	2	2					
69	02-1009-0175	Control Valve Servo Meter Tyavel Sender TDZ -1	Nos.	5	5					
70	02-1009-0176	Digital Speed Meter Type SAC-02(SZC-02)	Nos.	3	3					
71	02-1009-0178	A/M/D Station Controller ZDFH - 1000	Nos.	2	2					
72	02-1009-0185	Tubing Assembly 2.5mm (Blue)	Set	74	74					
73	02-1009-0186	Positioner Type - NS 737 - D	Nos	2	2					
74	02-1009-0200	Feed Back Position Transducer Type RAG Stock No:1-132-332	Nos	1	1					
75	02-1009-0207	Card PS 13 * B	Nos	3	3					
76	02-1009-0208	NC U4 * A Card	Nos	3	3					
77	02-1009-0209	Ps 11 * Card	Nos	3	3					
78	02-1009-0210	PBS * Card	Nos	2	2					
79	02-1009-0211	CTS - TT - AIZ (0~150c) Card	Nos	2	2					
80	02-1009-0212	CTS - TE - A (0~300) Card	Nos	2	2					
81	02-1009-0213	CTS - TE - A (0~400i) Cards	Nos	1	1					
82	02-1009-0214	CT5 TE * A (0~600c) Card	Nos	3	3					
83	02-1009-0215	CARD CTS-TE X A (0~300-600c)	Nos.	3	3					
84	02-1009-0216	CARD CSI XA	Nos.	5	5					
85	02-1009-0217	CARD CAI X A	Nos.	13	13					
86	02-1009-0218	CA5 * A Card	Nos.	3	3					
87	02-1009-0219	CHO * A Card	Nos.	4	4					
88	02-1009-0220	CX1 * A Card	Nos.	3	3					
89	02-1009-0221	CARD HAZC-A	Nos.	7	7					
90	02-1009-0222	CTL 4 * B Card	Nos.	3	3					
91	02-1009-0223	PNC 4 * A Cards	Nos.	3	3					
92	02-1009-0225	VSTZ * A Card	Nos.	1	1					
93	02-1009-0226	MDKI * B Card	Nos.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
94	02-1009-0227	SIFZ * A Card	Nos.	1	1					
95	02-1009-0228	GDIO * A Card	Nos.	1	1					
96	02-1009-0229	MI 10 * B Card	Nos.	1	1					
97	02-1009-0233	AFS - 10 - 26 Card	Nos.	1	1					
98	02-1009-0234	AFS - VS - 02 Card	Nos.	2	2					
99	02-1009-0236	AFS - IO - 05 Card	Nos.	2	2					
100	02-1009-0237	AFS - PB - 07 Card	Nos.	1	1					
101	02-1009-0238	Computer Printer Repson LQ 2500 Balck Ribben	Nos.	76	76					
102	02-1009-0240	AFS - 10 - 03 Card	Nos.	1	1					
103	02-1009-0241	AFS - 10 X - 02 A	Nos.	1	1					
104	02-1009-0243	AFS - CIS - 02 A	Nos.	2	2					
105	02-1009-0244	AFS - AM - 02A Card	Nos.	1	1					
106	02-1009-0245	Card AFS - 1000 - M SBA - 02 PB	Nos.	2	2					
107	02-1009-0246	AFS - PGM - 02 Card	Nos.	1	1					
108	02-1009-0247	AFS - CIS - 03 Card	Nos.	1	1					
109	02-1009-0248	AFS - PB - 02 Card	Nos.	1	1					
110	02-1009-0249	Anthmetiic Card A20 M - 47A (ALU4 * 47 A)	Nos.	3	3					
111	02-1009-0250	Multi Point Status Output Card (A 20 M - 49) Sno:8M29004Z	Nos.	1	1					
112	02-1009-0251	Multi Point Status Output Card Sno:8M22094Z	Nos.	1	1					
113	02-1009-0258	Thermocouple Input Card A 20 R - 86 CTS - TT * A 0~200c	Nos.	2	2					
114	02-1009-0260	OUTPUT ISOLATOR CARD	Nos.	4	4					
115	02-1009-0263	HAIC * A Card H/A (Station Interface Card)	Nos.	7	7					
116	02-1009-0266	Memory Card MSIO * A	Nos.	2	2					
117	02-1009-0270	Multi Point Status Input Card VMI * D	Nos.	5	5					
118	02-1009-0271	Multi Point Status Input Card ST3 * D	Nos.	3	3					
119	02-1009-0272	Common Card For ABC _ NC 3 * B	Nos.	3	3					
120	02-1009-0277	I / O Expention Buffer Card AFS - IOX - 02	Nos.	1	1					
121	02-1009-0278	Voltage Sensing Card For ABS FS - VS - 02	Nos.	1	1					
122	02-1009-0281	Communication Buffer For ABS Card AFS - CI - 03	Nos.	1	1					
123	02-1009-0282	Communication Interface Master Card AFS - CIM - 02 A	Nos.	1	1					
124	02-1009-0290	Memory Card MSIO * A	Nos.	3	3					
125	02-1009-0292	Multi Point Status Output Card ST4 * D	Nos.	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
126	02-1009-0309	Amplifire Circuite Board B04R - 006	Nos.	1	1					
127	02-1009-0310	Isolation Output Card B 04 - 007	Nos.	1	1					
128	02-1009-0311	Amplifire Circuite Board B04R - 25	Nos.	1	1					
129	02-1009-0312	Isolation Circuit Board B 04 R - 26	Nos.	1	1					
130	02-1009-0313	Input Output Card V 04 R - 47	Nos.	1	1					
131	02-1009-0314	Poer Card V 04 R - 48	Nos.	1	1					
132	02-1009-0315	Relay Card V 04 R - 49	Nos.	1	1					
133	02-1009-0316	Amplifier Card V 04 R - 50	Nos.	1	1					
134	02-1009-0317	PIB Card V 04 R - 51	Nos.	2	2					
135	02-1009-0318	D Card V 04 R - 52	Nos.	2	2					
136	02-1009-0319	Power Card V 04 R - 53	Nos.	2	2					
137	02-1009-0320	Output Card V 04 R - 54	Nos.	2	2					
138	02-1009-0325	Processor Unit EGPUG - 00H01 M - 003	Nos.	1	1					
139	02-1009-0326	Processor Memory CPMUG - 02	Nos.	1	1					
140	02-1009-0327	Hard Disk Controller EHDCG - 10	Nos.	1	1					
141	02-1009-0328	Floopy Disc Controller FFDCG - 00H05M - 002	Nos.	1	1					
142	02-1009-0329	Communication Adopter Master ECCAG - 10 H01 M - 001	Nos.	1	1					
143	02-1009-0330	Digital Output C Type EDOCG - 00H01 - 23	Nos.	1	1					
144	02-1009-0331	Host Interface EHIFG - 00H01 M - 25	Nos.	1	1					
145	02-1009-0332	Analog Output Card EAOBG - 00H 01 M -22	Nos.	1	1					
146	02-1009-0333	Extended CYCTIT IC (Scan Card) EXCG - 00H01 - 19	Nos.	1	1					
147	02-1009-0334	Common Memory ECMUG - 00H01M - 006	Nos.	1	1					
148	02-1009-0335	Digital Input C Type PITG - 00H01M -21	Nos.	1	1					
149	02-1009-0336	Console Proceessor (ECSLG-00)H01M-12	Nos	1	1					
150	02-1009-0337	Interface Unit For Hard Copy HCAD - 01	Nos	1	1					
151	02-1009-0338	Adopter EPADG - 00H01M - 009	Nos	1	1					
152	02-1009-0339	Digital Process Control Recive Card EDBCG - 00H01M - 13	Nos	1	1					
153	02-1009-0340	Processor Unit Card GPU - 2 H 01 M - 004	Nos	1	1					
154	02-1009-0341	Extended Bus Card EEXRG - 01 H 01 M - 17	Nos	1	1					
155	02-1009-0342	Communication Adopter ECCAG - 11 H 01 M - 002	Nos	1	1					
156	02-1009-0343	Pito Processor Unit Slave EPPUG - 01 H 01 M - 15	Nos	1	1					
157	02-1009-0344	Extended Analog Input (EExAG-00) H01M-18	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
158	02-1009-0345	Extended Bus Card Master EEXRG - 00 H 01 M - 16	Nos	1	1					
159	02-1009-0346	Video Processor Timming Controller CUBEXGPO - 00	Nos	1	1					
160	02-1009-0347	Pito Processor Unit Master CPP4G - 00	Nos	1	1					
161	02-1009-0348	P - Linkl Adopter PPLAG - 00	Nos	1	1					
162	02-1009-0349	Digital Pulse Input - C EDPIG - 001	Nos	1	1					
163	02-1009-0350	Super Size Graphic Memory Unit CLIBEVGMB - 10	Nos	1	1					
164	02-1009-0352	Printed Circuit Board Co 3 M - 701	Nos	1	1					
165	02-1009-0353	PCB Co 3 M - 702	Nos	1	1					
166	02-1009-0354	PCB Co 3 M - 703	Nos	1	1					
167	02-1009-0355	PCB Co 3 M - 704	Nos	1	1					
168	02-1009-0356	PCB Co 3 M - 705	Nos	1	1					
169	02-1009-0357	PCB Co 3 M - 706	Nos	1	1					
170	02-1009-0358	PCB Co 3 M - 707	Nos	1	1					
171	02-1009-0359	PCB Co 3 M - 708	Nos	1	1					
172	02-1009-0360	PCB Co 3 M - 709	Nos	1	1					
173	02-1009-0361	PCB Co 3 M - 710	Nos	1	1					
174	02-1009-0362	PCB Co 3 M - 711	Nos	1	1					
175	02-1009-0363	PCB Co 3 M - 712	Nos	1	1					
176	02-1009-0364	PCB Co 3 M - 713	Nos	1	1					
177	02-1009-0365	PCB Co 3 M - 714	Nos	1	1					
178	02-1009-0366	PCB Co 3 M - 715	Nos	2	2					
179	02-1009-0367	PCB Co 3 M - 716	Nos	1	1					
180	02-1009-0368	PCB Co 3 M - 717	Nos	1	1					
181	02-1009-0369	PCB Co 3 M - 718	Nos	1	1					
182	02-1009-0370	PCB Co 3 M - 719	Nos	1	1					
183	02-1009-0371	PCB Co 3 M - 720	Nos	1	1					
184	02-1009-0372	PCB Co 3 M - 721	Nos	1	1					
185	02-1009-0373	PCB Co 3 M - 722	Nos	1	1					
186	02-1009-0374	PCB Co 3 M - 723	Nos	1	1					
187	02-1009-0375	PCB Co 3 M - 724	Nos	1	1					
188	02-1009-0376	PCB Co 3 M - 725	Nos	1	1					
189	02-1009-0377	PCB Co 3 M - 726	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
190	02-1009-0378	PCB Co 3 M - 727	Nos	1	1					
191	02-1009-0379	PCB Co 3 M - 728	Nos	1	1					
192	02-1009-0380	PCB Co 3 M - 729	Nos	1	1					
193	02-1009-0381	PCB Co 3 M - 730	Nos	1	1					
194	02-1009-0382	PCB Co 3 M - 731	Nos	1	1					
195	02-1009-0383	PCB Co 3 M - 732	Nos	1	1					
196	02-1009-0384	PCB Co 3 M - 733	Nos	1	1					
197	02-1009-0385	PCB Co 3 M - 734	Nos	1	1					
198	02-1009-0386	PCB Co 3 M - 735	Nos	1	1					
199	02-1009-0387	PCB Co 3 M - 736	Nos	1	1					
200	02-1009-0388	PCB Co 3 M - 737	Nos	1	1					
201	02-1009-0389	PCB Co 3 M - 738	Nos	1	1					
202	02-1009-0390	PCB Co 3 M - 739	Nos	1	1					
203	02-1009-0391	PCB Co 3 M - 740	Nos	1	1					
204	02-1009-0392	PCB Co 3 M - 741	Nos	1	1					
205	02-1009-0393	PCB Co 3 M - 742	Nos	1	1					
206	02-1009-0394	PCB Co 3 M - 743	Nos	2	2					
207	02-1009-0395	PCB Co 3 M - 744	Nos	1	1					
208	02-1009-0396	PCB Co 3 M - 745	Nos	1	1					
209	02-1009-0397	PCB Co 3 M - 746	Nos	1	1					
210	02-1009-0398	PCB Co 3 M - 747	Nos	1	1					
211	02-1009-0399	PCB Co 3 M - 748	Nos	1	1					
212	02-1009-0400	PCB Co 3 M - 749	Nos	1	1					
213	02-1009-0401	PCB Co 3 M - 750	Nos	1	1					
214	02-1009-0402	PCB Co 3 M - 751	Nos	1	1					
215	02-1009-0403	PCB G 02 M - 001	Nos	1	1					
216	02-1009-0404	PCB G 02 M - 003	Nos.	1	1					
217	02-1009-0405	PIMD MODULES 432-X	Nos.	2	2					
218	02-1009-0413	TORQUE MOTER SPRING	Nos.	36	36					
219	02-1009-0416	COIL FOR SOLONAIL VALVE	Nos.	6	6					
220	02-1009-0423	PRINTAL CIRCUIT BOARD 2DZY6000	Nos.	6	6					
221	02-1009-0424	PRINTAL CIRCUIT BOARD ZDFC-2000	Nos.	3	3					

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1	2	3	4	5	6	7	8	10	11	12
222	02-1009-0426	PRINTAL CIRCUIT BOARD ZDGS-6020	Nos.	3	3					
223	02-1009-0427	PRINTAL CIRCUIT BOARD ZDJJ-6100	Nos.	8	8					
224	02-1009-0428	PRINTAL CIRCUIT BOARD ZDTN-6200	Nos.	5	5					
225	02-1009-0429	PRINTAL CIRCUIT BOARD ZDJB-6000	Nos.	5	5					
226	02-1009-0430	PRINTAL CIRCUIT BOARD ZDFC-6100	Nos.	2	2					
227	02-1009-0432	PRINTAL CIRCUIT BOARD ZDZJ-9020	Nos.	3	3					
228	02-1009-0433	PRINTAL CIRCUIT BOARD ZDZC-6000	Nos.	5	5					
229	02-1009-0434	PRINTAL CIRCUIT BOARD ZDDC-3000	Nos.	3	3					
230	02-1009-0438	With a Distinuous Tracking Card ZD-zd6000	Nos.	1	1					
231	02-1009-0439	With a Distinuous Tracking Card ZDZR-1000	Nos.	4	4					
232	02-1009-0442	With a Distinuous Tracking Card ZDTL-6150	Nos.	1	1					
233	02-1009-0443	With a Distinuous Tracking Card ZDJP-1000	Nos.	2	2					
234	02-1009-0445	Electronic Recorder AR 101 DAA 25 AAA 1,4	Nos.	2	2					
235	02-1009-0447	Filler Guage 6"	Nos.	15	15					
236	02-1009-0448	Filler Guage 10"	Nos.	11	11					
237	02-1009-0449	PCB Of Vibration Of Supervisory System VIB - E	Nos.	1	1					
238	02-1009-0449	PCB Of Vibration Of Supervisory System A1A - E	Nos.	1	1					
239	02-1009-0454	PRESSURE GAUGE 0 TO 100 KG.	Nos.	9	9					
240	02-1009-0459	POWER UNIT SERVO VALVE LK-10	Nos.	5	5					
241	02-1009-0460	POWER UNIT SERVO VALVE LM-10	Nos.	2	2					
242	02-1009-0461	Signal Data Distribution Card MV - 10	Nos.	2	2					
243	02-1009-0464	Micro Processor Controller RM1 - 11	Nos.	1	1					
244	02-1009-0465	F/CONTROL SOLONOID VALVE SM-10	Nos.	1	1					
245	02-1009-0466	MONITORING FOR 24V SN-10	Nos.	2	2					
246	02-1009-0468	LIGHT DUTY RELAY SR-10	Nos.	4	4					
247	02-1009-0469	MODULE SR-20	Nos.	2	2					
248	02-1009-0470	MODULE SS-10	Nos.	2	2					
249	02-1009-0471	MODULE SV-10	Nos.	2	2					
250	02-1009-0473	ER - 187 Recorder 12.-Colour Wheel E9662 - LP	Nos.	21	21					
251	02-1009-0474	ER - 187 Recorder Servo Amplifier board E9662	Nos.	6	6					
252	02-1009-0475	ER - 187 Recorder Range board E9663 HG	Nos.	5	5					
253	02-1009-0476	Cartadge Pen Assembly (Red) Part#114A12257 Make.China	Nos	67	67					

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ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

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1	2	3	4	5	6	7	8	10	11	12
254	02-1009-0477	Cartridge Pen Assembly (Blue) Part#H4A12258	Nos	68	68					
255	02-1009-0480	RE - 10 Recorder Range Board PT 100 P46 - 40	Nos	6	6					
256	02-1009-0481	1151 Flow Transmitter Calibrated Board 01150 - 0377 - 001	Nos	5	5					
257	02-1009-0482	1151 Diff:Transmitter amplifier Board 01150 -0333	Nos	6	6					
258	02-1009-0485	Ink Castridge B-000-3	Nos.	170	170					
259	02-1009-0486	Ink Castridge B-0014 Blue	Nos.	1	1					
260	02-1009-0491	Steel Tube 1/8" (3mm)	Mtr	129	129					
261	02-1009-0492	Steel Tube 1/8" (6mm) (1.107 M)	Mtr	1	1					
262	02-1009-0496	Telephon Chip Wire Holding Plastic tie	Nos	800	800					
263	02-1009-0499	Glass Tape Adhesive 1"x3mm	Nos	25	25					
264	02-1009-0500	Frecuency Counter VF - 4310 CHG	Nos	1	1					
265	02-1009-0501	Function Generator VG 4429 - 02 NZ - ZXZ	Nos	1	1					
266	02-1009-0502	Crystal Ribben B - 9573 - RR	Nos	14	14					
267	02-1009-0504	Crystal B - 9585 - JH	Nos	10	10					
268	02-1009-0505	MF Buss Control Card FCA4XB	Nos	1	1					
269	02-1009-0509	Seat Spring 301 -024	Nos	50	50					
270	02-1009-0510	Steb Sub Assembly A02 - 002 - 01	Nos	50	50					
271	02-1009-0511	Spring Return Eye Valve A44 - 002	Nos	49	49					
272	02-1009-0512	Limit Switch Valve LSF3K	Nos	5	5					
273	02-1009-0513	CYLINDERDIA PHRAGHM	Nos	44	44					
274	02-1009-0515	Nut Packing A01 - 012	Nos	89	89					
275	02-1009-0516	Packing Set A 39 -001 - 01	Nos	89	89					
276	02-1009-0517	Soring Packing A 44 - 001	Nos	89	89					
277	02-1009-0518	Gasket Body A 40 - 001	Nos	89	89					
278	02-1009-0519	Set Ring Up 001 - 013 - 01	Nos	49	49					
279	02-1009-0520	Set Ring A 01 - 001 - 01	Nos	49	49					
280	02-1009-0521	Set Ring Lower B 01 - 013 01	Nos	49	49					
281	02-1009-0522	Oil Steem Sub Assembly B 02 - 003 - 01	Nos	49	49					
282	02-1009-0524	Cell Assembly For Analyzer Modle Z021D (Zerconia)	Nos.	1	1					
283	02-1009-0532	Bladder 110156 - 00225 (20 Ltr)	Nos.	8	8					
284	02-1009-0533	PROTECTION CAP	Nos.	1	1					
285	02-1009-0537	CONDUCTIVITY CELL 4908-10	Nos.	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
286	02-1009-0538	7082 Series Conductivity Resistivity Analyzer Controller	Nos.	2	2					
287	02-1009-0547	1151 Transmitter Sheeling lever 055 - 0028 - 0022	Nos.	12	12					
288	02-1009-0548	Sheeling Seat	Nos.	12	12					
289	02-1009-0549	Plug	Nos.	12	12					
290	02-1009-0550	ISQ Roll Intractor Rol Block Card	Nos.	3	3					
291	02-1009-0551	Thermocouple 6 x 250 Type"WRNZ 321K	Nos.	5	5					
292	02-1009-0553	Solinoid Valve LX2 - 121	Nos.	2	2					
293	02-1009-0555	PROT: SYSTEM RELAY DZ-52-40	Nos.	17	17					
294	02-1009-0556	Auxiliary Relay DZ 51 - 40	Nos.	80	80					
295	02-1009-0558	Voltage Supply 24v	Nos.	6	6					
296	02-1009-0559	Position Signal Alarm	Nos.	18	18					
297	02-1009-0560	Actuater ZJH Nozzle Film	Nos.	8	8					
298	02-1009-0562	Filter Relife Position Signal Alarm	Nos.	11	11					
299	02-1009-0565	Power Supply Module for Annuuotin Cabnit Type-XB-G-1	Nos	2	2					
300	02-1009-0567	Pressure Guage (0~7 Kg) (0~100 Psi)	Nos	9	9					
301	02-1009-0568	Micro Switch ZC - CTA24 A - AC	Nos	10	10					
302	02-1009-0569	Multi Change Switch LWS - 15E 8	Nos	1	1					
303	02-1009-0570	Multi Change Switch 15 N721617	Nos	4	4					
304	02-1009-0571	5351 - 2120 0~600o Range Unit - E9603 VG	Nos	5	5					
305	02-1009-0572	0~400o	Nos	6	6					
306	02-1009-0573	5351 - 31303 E9603 XB Amp: Unit Block	Nos	2	2					
307	02-1009-0574	Rang Unit Board E 9603 XF - 01	Nos	3	3					
308	02-1009-0575	5367 - 6001 E9607BXBEMP Unit Block	Nos	3	3					
309	02-1009-0577	Outlet Detector Paltinium Resistor Thermal PT 100 L 500	Nos	1	1					
310	02-1009-0578	Second Year Dumper actuater ZSL Control Valve Film	Nos	58	58					
311	02-1009-0579	ER 87 Recorder 12.Ink G - 96 - 200R Red	Nos	27	27					
312	02-1009-0582	1151 Transmitter Amp: Square Block	Nos	6	6					
313	02-1009-0583	RE 10 recorder Amp: P46 - 3A Block	Nos	6	6					
314	02-1009-0584	Thermocouple I/P Card ASE 9730B	Nos	1	1					
315	02-1009-0585-A	Men Seal Riggs Small	Nos	17	17					
316	02-1009-0586	Second Year Dumper ZJK (GF Actuater QZD - 1000	Nos	1	1					
317	02-1009-0587	Turbine Protection Shafter Alaram System FFD - 63	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
318	02-1009-0589	7SSS - Cousion Filter Nut	Nos	86	86					
319	02-1009-0590	Magnetic CT - 10 - 10	Nos	10	10					
320	02-1009-0591	Contract Cleanier TX - 09 Gold Vipes ST x 09	Nos	175	175					
321	02-1009-0594	Pen Tips For AR - 101 Recorder	Nos	410	410					
322	02-1009-0595	Micro Switch Without Holder ZJ-LFA-24A	Nos	29	29					
323	02-1009-0597	PROGRAMMABLE CONTROL CPU	Nos.	1	1					
324	02-1009-0598	INPUT CARD IC610	Nos.	5	5					
325	02-1009-0599	OUTPUT CARD IC 610 180A	Nos.	6	6					
326	02-1009-0600	POWER SUPPLY IC-610	Nos.	2	2					
327	02-1009-0608	RELIF VALVE 99/7/112/0012	Nos.	2	2					
328	02-1009-0609	FLEXIBLE PIPING 99/7/112/003	Nos.	2	2					
329	02-1009-0611	GAS VALVE COMPLETEP/NO: 102396-0	Nos.	1	1					
330	02-1009-0613	Bladder For Type HP Bypass System	Nos.	3	3					
331	02-1009-0614	PROTECTIVE CAP	Nos.	2	2					
332	02-1009-0615	VALVE CAP P/NO 102362-3620	Nos.	1	1					
333	02-1009-0616	GAS VALVE COMPLETE	Nos.	1	1					
334	02-1009-0617	STEEL CYLINDER SHELL 10-31-330	Nos.	2	2					
335	02-1009-0618	POPPET VALVE COMPLETE	Nos.	1	1					
336	02-1009-0619	ANALOG INPUT CARD	Nos.	4	4					
337	02-1009-0620	Pressure Switch for Three Wey ValveModleT-1001(Part#2100/HPU	Nos.	23	23					
338	02-1009-0621	POWER SUPPLY MZ-III (TYPE-TEE-011J2/4CPS94)	Nos.	94	94					
339	02-1009-0622	Lamp Control SL - 10	Nos.	6	6					
340	02-1009-0633	TURBINE SPEED INDICATOR	Nos.	1	1					
341	02-1009-0634	SNAP LOCK LIMIT SWITCH	Nos.	8	8					
342	02-1009-0637	Position Feed Back Transmitter R - SG 1154K	Nos.	1	1					
343	02-1009-0638	Micro Switch RSG - 11 + 4K -3/8006	Nos.	9	9					
344	02-1009-0639	Quick Opening Device SBE 116 -1/48V	Nos.	1	1					
345	02-1009-0640	Position Transmitter R - 4K	Nos.	2	2					
346	02-1009-0643	Feed Back Transmitter R SG 11 + 4K	Nos.	2	2					
347	02-1009-0644	1 - Of - 2 Silicon MA - 10	Nos.	2	2					
348	02-1009-0645	Chechiss Frame Man In feed ND - 10	Nos.	3	3					
349	02-1009-0647	Check Valve Upper	Nos.	7	7					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
350	02-1009-0649	Chart Paper Ball Type 445 -012	Nos.	80	80					
351	02-1009-0650	Z Flod Chart Paper B95 85 Am	Nos.	24	24					
352	02-1009-0654	Electronic Position Transmitter T - 4210	Nos.	3	3					
353	02-1009-0656	Reducing Union Coupling 1/4 x 3/8	Nos.	1	1					
354	02-1009-0657	Chain Coupling 1/4 x 1/4	Nos.	9	9					
355	02-1009-0659	Chain Coupling 1/4 x 3/8	Nos.	7	7					
356	02-1009-0660	Cock Brass Lever Handle Female 1/4	Nos.	24	24					
357	02-1009-0661	Cock Brass Lever Handle Female 3/8	Nos.	8	8					
358	02-1009-0663	Valve Union Female 1/8	Nos.	24	24					
359	02-1009-0664	Bross Lexagen Reducing Nipple1/4x1/8"(Brass Ferol NippleSize-8x	Nos.	20	20					
360	02-1009-0665	Brass R/Nipple 3/8 x 3/8	Nos.	22	22					
361	02-1009-0666	Brass R/Nipple 1/2 x 3/8	Nos.	3	3					
362	02-1009-0667	Brass R/Nipple 3/4 x 1/2	Nos.	14	14					
363	02-1009-0670	Dead Nut 1/4	Nos.	2	2					
364	02-1009-0671	Cover Stock Q2 - 3	Nos.	2	2					
365	02-1009-0673	Valve Neddle 1/4	Nos.	19	19					
366	02-1009-0674	Valve Neddle 3/6	Nos.	34	34					
367	02-1009-0675	Valve Neddle 1/2	Nos.	18	18					
368	02-1009-0676	Water Oil	Bottle	20	20					
369	02-1009-0677	A 51 Transmitter Module ETN - 81 - 055	Nos.	1	1					
370	02-1009-0678	A 52 Transmitter Module ETN - 81 - 055	Nos.	1	1					
371	02-1009-0679	A 53 Transmitter Module ETN - 81 - 055	Nos.	1	1					
372	02-1009-0680	A 54 Transmitter Module ETN - 81 - 055	Nos.	1	1					
373	02-1009-0681	Pressure Guage 0~300 Psi	Nos.	3	3					
374	02-1009-0682	Techo Metter Tourch Type PT 1300	Nos.	2	2					
375	02-1009-0684	Indication Bulbe 10v	Nos.	62	62					
376	02-1009-0686	Thermocouple WRNK 2 - 321 6 x 250	Nos.	22	22					
377	02-1009-0687	Chart Paper B9565AW	Nos.	20	20					
378	02-1009-0688	Speed control card	nos	18	18					
379	02-1009-0691	PUMP MOTOR GEAR BOX (1.5)	Nos.	2	2					
380	02-1009-0693	PHOTO ELECTRIC CELL 8064-520	Nos.	4	4					
381	02-1009-0694	PHOTO ELECTRIC CELL 8064-510 and Filter	Nos.	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
382	02-1009-0695	FUNCTION MODULE 8068-600	Nos.	1	1					
383	02-1009-0697	ALARAM & TEMP: Control modle P/no 8021 400	Nos.	1	1					
384	02-1009-0699	Multi Chennel Pump And Motor Assembly 1680 - 700	Nos.	1	1					
385	02-1009-0713	H.P DIFF: CARD 3JB	Nos.	1	1					
386	02-1009-0718	Gas Trip Valve	Nos.	1	1					
387	02-1009-0719	Gas Regulating Valve	Nos.	1	1					
388	02-1009-0721	Speed Controller for Burner Sc-6-04-84-1+T	Nos.	3	3					
389	02-1009-0722	Programmer For CPU Series IC - 610 GE Card	Nos.	1	1					
390	02-1009-0723	ACDC Connector NN - 40	Nos.	2	2					
391	02-1009-0725	Servo Valve ST - 10 - 4/R6Z - 100	Nos.	1	1					
392	02-1009-0730	Axial Displac.Sub-Pannel 2JB	Nos.	1	1					
393	02-1009-0733	Air Cylinder Assembly 3108	Nos.	3	3					
394	02-1009-0735	ZDFB-1000	Nos.	3	3					
395	02-1009-0738	Card Relay Combination 9020	Nos.	1	1					
396	02-1009-0753	Card ZDFS-1000	Nos.	1	1					
397	02-1009-0754	Card ZDFC-1000	Nos.	1	1					
398	02-1009-0755	Card ZDFC-2000	Nos.	2	2					
399	02-1009-0757	Card ZDFH-1090	Nos.	1	1					
400	02-1009-0759	Card ZDFJ-2070	Nos.	1	1					
401	02-1009-0760	Card ZDKJ-8000	Nos.	2	2					
402	02-1009-0761	Card ZDTW-6200	Nos.	2	2					
403	02-1009-0762	Card ZDFB-1000	Nos.	2	2					
404	02-1009-0763	Card ZDGS-6010	Nos.	1	1					
405	02-1009-0764	Card ZDGS-6020	Nos.	2	2					
406	02-1009-0765	Card ZDJB-6100	Nos.	2	2					
407	02-1009-0766	Card ZDTW-6100	Nos.	1	1					
408	02-1009-0767	Card ZDZD-6000	Nos.	2	2					
409	02-1009-0769	Potintno Meter G9018	Nos.	6	6					
410	02-1009-0770	Potintno Meter G9020	Nos.	6	6					
411	02-1009-0771	Spin Unit Combination E9603	Nos.	4	4					
412	02-1009-0772	Power Combination E9602	Nos.	3	3					
413	02-1009-0773	Distribution Unit E9607	Nos.	3	3					

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1	2	3	4	5	6	7	8	10	11	12
414	02-1009-0774	Ouput Unit 9607	Nos.	3	3					
415	02-1009-0775	Power Combination E9602	Nos.	6	6					
416	02-1009-0776	Meter Head E9702	Nos.	3	3					
417	02-1009-0778	Pressure Gauge Transmiter 0~20 Kg.	Nos.	2	2					
418	02-1009-0779	Pressure Gauge Transmiter 0~40 Kg.	Nos.	1	1					
419	02-1009-0780	Pressure Gauge Transmiter 0~27 Kg.	Nos.	1	1					
420	02-1009-0782	Pressure Gauge Transmiter 0~6 Kg.	Nos.	1	1					
421	02-1009-0791	Temp. Transmitter 0~300 C	Nos.	1	1					
422	02-1009-0792	Temp. Transmitter 0~20 C	Nos.	1	1					
423	02-1009-0795	Temp. Transmitter 0~400 C	Nos.	1	1					
424	02-1009-0797	Risistance Changer	Nos.	2	2					
425	02-1009-0801	Indicator 4 - 20 mA 4135 - 2000	Nos.	1	1					Foc
426	02-1009-0812	PT Thermo Risistance L=75	Nos.	1	1					
427	02-1009-0816	PT Thermo Risistance L=250	Nos.	1	1					
428	02-1009-0817	PT Thermo Risistance L=200	Nos.	1	1					
429	02-1009-0818	Pressure Gauge 2.5 Kg.	Nos.	4	4					
430	02-1009-0826	Thermo Couple K1 x 100	Nos.	3	3					
431	02-1009-0827	Thermo Couple EL x 100	Nos.	3	3					
432	02-1009-0830	Thermo Couple K6 x 100	Nos.	2	2					
433	02-1009-0831	CU Resistance L=2000	Nos.	3	3					
434	02-1009-0832	CU Resistance L=100	Nos.	1	1					
435	02-1009-0840	Thermo of Twinmeter L=500	Set	1	1					
436	02-1009-0841	Thermo of Twinmeter L=1500	Set	3	3					
437	02-1009-0842	Thermo of Twinmeter Q10-75	Set	3	3					
438	02-1009-0848	Indication of Mov.Cycled 0-50	Set	3	3					
439	02-1009-0849	Indication of Mov.Cycled 0-40	Set	3	3					
440	02-1009-0850	Indication of Mov.Cycled 0-20	Set	5	5					
441	02-1009-0852	Light Emitting Divod BT-203A	Set	10	10					
442	02-1009-0853	ER computing Emplifier	Pes.	20	20					
443	02-1009-0854	Photo Coupler 3DG5B	Pes.	10	10					
444	02-1009-0855	Controlable 3CT	Pes.	8	8					
445	02-1009-0856	Voltage Sreblizing Tube 2CW1	Pes.	10	10					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
446	02-1009-0857	Voltage Sreblizing Tube 2CW21	Pes.	10	10					
447	02-1009-0858	Voltage Sreblizing Tube 2CW233	Pes.	10	10					
448	02-1009-0861	Color Indicator 270H	Pes.	9	9					
449	02-1009-0862	Computing Emplifier F007	Pes.	10	10					
450	02-1009-0863	Diff.Pressure Controler D5207DD	Pes.	3	3					
451	02-1009-0864	Diff.Pressure Controler D5207DD	Pes.	1	1					
452	02-1009-0865	Diff. Pressure D5307DD	Pes.	4	4					
453	02-1009-0869	THKZ Module S30810 Q16-D100	Nos.	1	1					
454	02-1009-0870	CRPC Module S30810-Q264x100	Nos.	1	1					
455	02-1009-0874	MCA Module S30810 Q416	Nos.	1	1					
456	02-1009-0875	CC Module S3081-Q-417	Nos.	1	1					
457	02-1009-0876	PSC Module S30810-Q-419	Nos.	1	1					
458	02-1009-0892	Power Supply Moudle 8020-500	Nos.	1	1					
459	02-1009-0893	Magnatic Flower 0217-325	Nos.	4	4					
460	02-1009-0894	Mixer Blocking Assembly P/No.8063-870	Nos.	2	2					
461	02-1009-0897	Slonied Changeover Valve P/No.0232-049	Nos.	6	6					
462	02-1009-0898	Stirer Motor(300rpm)	Nos.	1	1					
463	02-1009-0899	Temp. Coil 8061-620	Nos.	2	2					
464	02-1009-0900	Pinch Slonied Valve P/No.0232-031	Nos.	4	4					
465	02-1009-0902	Thermister Probe 8021-890	Nos.	3	3					
466	02-1009-0904	Output Module 8061-200	Nos.	1	1					
467	02-1009-0905	Compansation Module 8060-300	Nos.	1	1					
468	02-1009-0906	Motor Module 8061-150	Nos.	1	1					
469	02-1009-0907	Liner Motor Module 8061-153	Nos.	1	1					
470	02-1009-0908	Liner Motor Module 8061-151	Nos.	1	1					
471	02-1009-0909	Liner Motor Module 8061-154	Nos.	1	1					
472	02-1009-0910	Liner Motor Module 8061-152	Nos.	1	1					
473	02-1009-0916	Seal of Ignitor Advance	Nos.	42	42					
474	02-1009-0919	PCB For EHG CACU 2PXX - 2121A	Nos.	2	2					
475	02-1009-0924	Limit Switch LX-19-331	Nos.	15	15					
476	02-1009-0928	Micro Switch LX-19-231	Nos.	2	2					
477	02-1009-0933	Pilot Valve For Gas Regulator	Nos.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
478	02-1009-0937	Oil Leak Detector C 7 IF 0~7 PE 100va	Nos.	1	1					
479	02-1009-0947	Ignition Rod Slonied Valve +"	Nos.	2	2					
480	02-1009-0948	Feed Back signal Trans.4-20 MA	Nos.	1	1					
481	02-1009-0950	Transducer Circuit Card PV - 04 (H-4-LVD)	Nos.	1	1					
482	02-1009-0951	Position Feed Back Transducer PV - 04	Nos.	1	1					
483	02-1009-0953	Emergency Ignighter Transformer / Excitor XDH - 20	Nos.	10	10					
484	02-1009-0962	Timer Relay DX-113C	Nos.	2	2					
485	02-1009-0963	Control Vlv Servo Motor Travel Type 1YD	Nos.	1	1					
486	02-1009-1002	Junction Box AC 221	Nos.	14	14					
487	02-1009-1011	Wet Armature S/Valve DG4V-3-24A	Nos.	1	1					
488	02-1009-1014	Electric Unit BG-014 ZO(DH-6)	Nos.	3	3					
489	02-1009-1015	Circiut Board NF 5 516242	Nos.	4	4					
490	02-1009-1016	Regulated Power Supply	Nos.	4	4					
491	02-1009-1017	Pump Unit ZOA(DH-6)	Nos.	5	5					
492	02-1009-1018	Steel Armoured Th./Couple ZOA(DH	Nos.	4	4					
493	02-1009-1019	Heater ZOA(DH-6)	Nos.	4	4					
494	02-1009-1020	Ring Transformer ZOA(DH-6)	Nos.	4	4					
495	02-1009-1021	Zerconia Electrode	Nos.	6	6					
496	02-1009-1023	Lense Tube for Furnace Flame 986801-0726	Nos.	1	1					
497	02-1009-1025	HE Silence Unit (Pilot Box) A 09M - 015	Nos.	4	4					
498	02-1009-1026	Spacer For HP Igniter Source Unit	Nos.	7	7					
499	02-1009-1034	Power Supply TLGDK	Nos.	1	1					
500	02-1009-1035	Electronic Switch ZJM Actuator	Nos.	10	10					
501	02-1009-1036	Thermo Resistance L-80	Nos.	35	35					
502	02-1009-1039	Proportional Control valve KDG4V-3	Nos.	1	1					
503	02-1009-1040	Wet Armature Solinoid Operated dirctional Valve	Nos.	1	1					
504	02-1009-1048	20" Moniter	Nos.	4	4					
505	02-1009-1049	Elect:Pressure Transmitter AMD - 200	Nos.	1	1					
506	02-1009-1053	Pressure Switch FF4-2 (FF4-2DAH)	Nos.	3	3					
507	02-1009-1056	Push Button Module S - 33.1	Nos.	2	2					
508	02-1009-1057	Push Button Module S - 20	Nos.	2	2					
509	02-1009-1058	Push Button Modules S-12	Nos.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
510	02-1009-1059	Single Indicator P - 12	Nos.	3	3					
511	02-1009-1070	Universal Getting Card 16 D I1	Nos.	4	4					
512	02-1009-1071	16 DIL on/ off Card	Nos.	2	2					
513	02-1009-1072	Voltage Bus Card VB Card	Nos.	2	2					
514	02-1009-1075	Seal Zero Gas Cylinder 0.95--1.0	Nos.	5	5					
515	02-1009-1076	In Door wall Set (Telephphon Box	Nos.	8	8					
516	02-1009-1077	Speaker	Nos.	17	17					
517	02-1009-1078	Desk Set	Set	2	2					
518	02-1009-1080	Controller XMJK - 1	Nos	3	3					
519	02-1009-1081	Controler UDX 1012	Nos	1	1					
520	02-1009-1084	Controll CableArmored (600/1000V)4Core Conductor Size-1.5mm	Mtrs	3968	3968					
521	02-1009-1085	Armored Cable (600/1000V) Material PVC Conductor Size-1.5mm	Mtr	6,435	6,435					
522	02-1009-1086	Control Cable 16 x 1.5mm	Mts	125	125					
523	02-1009-1088	Control Cable 24 x 1.5mm	Mtr	907	907					
524	02-1009-1091	Card ZDFF-1000	Nos.	2	2					
525	02-1009-1092	Twin metal 0-100	Nos.	3	3					
526	02-1009-1094	ribben Cartridge	Nos.	7	7					
527	02-1009-1095	ribben For Printer	Nos.	2	2					
528	02-1009-1096	Ribben For Hard Copy	Nos.	3	3					
529	02-1009-1097	Computer Ribbon Black (Assorted)	Nos.	15	15					
530	02-1009-10999	Secondary Air Dumper ZSL (GF)	Nos.	3	3					
531	02-1009-1104	Chart paper 1.906ANB	Nos.	111	111					
532	02-1009-1107	Chart paper E-906 FCB	Nos.	240	240					
533	02-1009-1108	Chart paper 114-1-107	Nos.	200	200					
534	02-1009-1117	M2M Module	Nos.	1	1					
535	02-1009-1118	MPAN Module	Nos.	1	1					
536	02-1009-1119	OIL For three way Valove(Part#S156202R)(MIL-H5606E)(Hydrolic	Ltr:	267	267					
537	02-1009-1161	Press; Gague dial 100mm 1.0-1.5kg	Nos.	4	4					
538	02-1009-1163	Press; Gague dial 100mm 1.6kg	Nos.	8	8					
539	02-1009-1172	CON Module 281-2	Nos.	1	1					
540	02-1009-1174	Displacement Transducer LVDT	Nos.	1	1					
541	02-1009-1177	O-Ring Synthetic Rubber Size-10-2mm	Pcs	200	200					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
542	02-1009-1185	UR - 1000 Recorder	Nos	3	3					
543	02-1009-1189	1800 Recorder	Nos	1	1					
544	02-1009-1207	SyntheticRubberDustCoverForOilGunCylinder(L350mm) A.P.S	Nos.	18	18					
545	02-1009-1208	Synthetic Rubber Dust Cover for Air Cylinder(L=320mm) A.P.S	Nos.	18	18					
546	02-1009-1210	Resistance Temp.Detector (RTD)Type-WZPMK-042(PT-100Size-6	Nos	43	43					
547	02-1009-1217	SytheticRubberDustCoverForAir(L=475mm)RegisterCylinder APS	Nos	18	18					
548	02-1009-1225	Cable Tie 200x2.5mm	Pcs	2	2					
549	02-1009-1227	Ft GI Flexible 1"	Ft	1,000	1,000					
550	02-1009-1229	FT GI Flexible 1/2"	FT	1188	1188					
551	02-1009-1243	Die Hyderolic Seal 28x21x3.3	Nos	1	1					
552	02-1009-1245	Die Rubber Washer 22x4x3	Nos	1	1					
553	02-1009-1246	Rubber Washer 22x4x3	Nos	150	150					
554	02-1009-1247	Dia Rubber Washer 19x10x14	Nos	1	1					
555	02-1009-1248	Rubber Washer 19x10x14	Nos	50	50					
556	02-1009-1249	Dia Diaphram Seal	Nos	1	1					
557	02-1009-1252	Plastic Bush for air Line	Nos	190	190					
558	02-1009-1257	Cotton Gloves	Pair	7	7					
559	02-1009-1259	Variable Pontitio Meter 10K	Pcs	200	200					
560	02-1009-1274	IC 4082 BP	Nos	50	50					
561	02-1009-1288	Marking Fero LS-A-Z(1.5)	Set	10	10					
562	02-1009-1340	Gylcrien Filled Pressure Guage 0~120	Nos	1	1					
563	02-1009-1353	Glass Fuse 0.3A	Nos	600	600					
564	02-1009-1361	Thermo Couple Type-TCS DWG-P-207901&Lists Class-STD Lengt	Nos	1	1					
565	02-1009-1362	Ribbon Cartridge for UR-1800 Recorder Part#B9906JA China/Japa	Nos	80	80					
566	02-1009-1372	Pressure Switch Model-DG50U Range 0-50Mbar(2.5-50Mbar)	Nos	6	6					
567	02-1009-1373	Pressure Switch Model-DG10U Range 1-10Mbar	Nos	4	4					
568	02-1009-1376	Sleeving 4mm	Nos	1,370	1,370					
569	02-1009-1393	I.C 555	Nos	50	50					
570	02-1009-1413	R.O Temperature Controller Model-KFTA13-06150A IT-M.7 Rang	Nos	2	2					
571	02-1009-1423	TEmp:Indicating Switches Range-0~120C Lenght-100mm dia-06mm	Nos	1	1					
572	02-1009-1433	Press:GaugeGLyCerineFilledBackM#160-T550031L55Com:Range-	Nos	1	1					
573	02-1009-1436	Pres:Gauge GLyCerine Filled Back M#160-T550031L55 Range-0.2	Nos	6	6					

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574	02-1009-1438-A	Display Assembly for Ur - 100 Recorder LU 329	Nos	2	2					
575	02-1009-1439	Display Assembly for UR-180 Recorder Part#B9573QC	Nos	4	4					
576	02-1009-1459	Thimble	Nos	607	607					
577	02-1009-1464	i-Solenoid Valves/With Manifold & Union Connection Sr#0205050	Nos	20	20					
578	02-1009-1465	ii-Diaphrarm Part#90-D250-212	Nos	68	68					
579	02-1009-1469	IC 4081	Nos	47	47					
580	02-1009-1473	Connector Cable Socket for1DD-11flame detectorModel#MS3116E	Nos	40	40					
581	02-1009-1482	Regulated IC 7915	Nos	20	20					
582	02-1009-1487	Tranisister C9015	Nos	400	400					
583	02-1009-1507	Glass Fuse 5Amp(s)	Pcs	400	400					
584	02-1009-1511	Glass Fuse 2Amp(L)	Pcs	600	600					
585	02-1009-1512	Glass Fuse 3Amp(s)	Pcs	100	100					
586	02-1009-1529	Brass Filters for ZJM/ISLPenumatic Actuator(As Per Sample)	Nos	198	198					
587	02-1009-1530	Brass Filters For ZSL(GF) Penumatic Actuater(As Per Sample)	Nos	98	98					
588	02-1009-1531	Pressure Switch for Furnace Draft Model#12nn-KK614-82 BHA TT	Nos	1	1					
589	02-1009-1536	Servo Motor for RE-10 Reducer Type-36SL-01	Nos	10	10					
590	02-1009-1546	Gas Flow Transmiter Model-1151 DP4E 12 MIB 3DI Sr#G2011202	Nos	1	1					
591	02-1009-1589	Position Feed Back Associated With Elect:Actuator Model-DKZ-31	Nos	3	3					
592	02-1009-1592	Manuf:ofPCBPrinted Circuit Board for24VDc Elec:Swith ZJM(95x	Nos	10	10					
593	02-1009-1593	Synthetic Rubber Seal.APS a)Inner Dia-59mmx72mm(73X62X4)	Nos	5	5					
594	02-1009-1594	Manufaturing of Synthetic Rubber Seal.APS b) Inner Dia-49mmx58	Nos	6	6					
595	02-1009-1595	Synthetic Rubber Seal.APS c)Inner Dia-36x47x4mm	Nos	6	6					
596	02-1009-1596	Manufaturing of Synthetic Rubber Seal.APS d) Inner Dia-13mmx19	Nos	8	8					
597	02-1009-1601	Two Pin Socket PPI	Nos	25	25					
598	02-1009-1625	Pressure Gauge ii-Range:0-25kgCm Operating Temp:300C	Nos	2	2					
599	02-1009-1630	PressureGaugeViii-Range:0-40Kg/CmServiceForHighempSS316Tid	Nos	6	6					
600	02-1009-1631	PressureGauge X-Range:0-60Kg/CmServiceForHighempSS316Ti di	Nos	3	3					
601	02-1009-1635	Scotch Type 48mm Imported	Nos	8	8					
602	02-1009-1647	HyodaDialThermometerIndicatingSwitch-0-120CoWith Micro Swit	Nos	6	6					
603	02-1009-1650	Control Relay M4 - 2,24	Nos	33	33					
604	02-1009-1662	Heat & Oil Proof Seelve Size-01,	FT	1,342	1,342					
605	02-1009-1663	Heat & Oil Proof Seelve Size-2	FT	801	801					

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606	02-1009-1664	Heat & Oil Proof Seelve Size-3	FT	1,835	1,835					
607	02-1009-1665	Heat & Oil Proof Seelve Size-4	FT	1,272	1,272					
608	02-1009-1666	Heat & Oil Proof Seelve Size-5	FT	1,767	1,767					
609	02-1009-1677	G.I Conduct Flexible With Rubber Insulation Size-1/2"	FT	345	345					
610	02-1009-1689	Cardless Telephone Set	Nos	2	2					
611	02-1009-1695	Rubber Flexiable Pipe for Air 1.4"(S.S Pipe 1/4")	Meter	4	4					
612	02-1009-1701	Synthetic Rubber Diaphragm for F.D/GR Fans Regulators 230x61x5	Nos	20	20					
613	02-1009-1702	HP Aux: Heater Regulator 125x31x4mm	Nos	6	6					
614	02-1009-1703	Condensor Level Gland sealing Pressure Regulator 101x28x4	Nos	12	12					
615	02-1009-1708	LimitSwitchWithLockKeyHeadInstalledPneumaticValve(As Per Sar	Nos	99	99					
616	02-1009-1709	LimitSwitch(Oil Burner)HeadInstalledOnThePenumaticOfValve(A.	Nos	25	25					
617	02-1009-1745	Glass Thermo Meter With S.S Body Range 0-120C(Red or Blue)L-1	Nos	5	5					
618	02-1009-1746	Temperalure Gauge (Analogue Type) Range:0-200C Dail-85mm	Nos	10	10					
619	02-1009-1752	Regulated I.Cs (Plastic) i) 7824	Nos	80	80					
620	02-1009-1753	Requlated I.Cs (Palstic) iv) 7518	Nos	20	20					
621	02-1009-1754	Regulated I.Cs (Pastic) vi) 7818	Nos	20	20					
622	02-1009-1755	Regulated I.Cs (Pastic) vii) 7918	Nos	20	20					
623	02-1009-1756	IC i) 4073	Nos	50	50					
624	02-1009-1757	IC ii) 4001	Nos	50	50					
625	02-1009-1758	IC iv) 741 Op: Amplifier	Nos	50	50					
626	02-1009-1759	IC v) Cx1213/1230	Nos	10	10					
627	02-1009-1760	IC vi) CD 4071	Nos	50	50					
628	02-1009-1761	IC vii) cd 4072	Nos	50	50					
629	02-1009-1762	IC viii) cd 4011 BE (CB)	Nos	50	50					
630	02-1009-1763	Transister iv) D 1577 or Equiralent	Nos	90	90					
631	02-1009-1765	Fillter Element(Ceramic) Outerdia=32mmInnerdia-20.5mmThik-6.0	Nos	14	14					
632	02-1009-1769	VoltageSwithingCard/6VD.CDisconectedCardType-AFS-6 Volt D=	Nos	2	2					
633	02-1009-1773	Plastic Annaniation Windows Size-1x77mm(Words Name Plates)	Nos	125	125					
634	02-1009-1805	Manufa:Module for a.H.P/I.PAbsoluteExpansion(Size-W=135mm)(	Nos	7	7					
635	02-1009-1806	b.Over Speed Tripper Module(A.S.P)P.C.B(PTH Type)Size-W=135	Nos	3	3					
636	02-1009-1829	Head Plate Casting for Mounting Speed Contol Card Pressure Switc	Nos	21	21					
637	02-1009-1830	MS Panel Sheets with Locks(ASP)Thickness=2 Size=535x126x16m	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
638	02-1009-1831	MS Panel Sheets with Locks(ASP)Thickness=2 Size=292x125x16m	Nos	4	4					
639	02-1009-1833	MS Panel Sheets with Locks(ASP)Thickness=2 Size=560x125x16m	Nos	2	2					
640	02-1009-1834	MS Panel Sheets with Locks(ASP)Thickness=2 Size=610x125x16m	Nos	2	2					
641	02-1009-1835	MS Panel Sheets with Locks(ASP)Thickness=2 Size=1805x102x16	Nos	7	7					
642	02-1009-1836	MS Panel Sheets with Locks(ASP)Thickness=2 Size=890x102x16m	Nos	3	3					
643	02-1009-1837	MS Panel Sheets with Locks(ASP)Thickness=2 Size=380x125x16m	Nos	2	2					
644	02-1009-1838	MS Panel Sheets with Locks(ASP)Thickness=2 Size=1075x292mm	Nos	6	6					
645	02-1009-1839	MS Panel Sheets with Locks(ASP)Thickness=2 Size=510x125x16m	Nos	4	4					
646	02-1009-1840	MS Panel Sheets with Locks(ASP)Thickness=2 Size=915x102x16m	Nos	2	2					
647	02-1009-1841	MS Panel Sheets with Locks(ASP)Thickness=2 Size=406x125x16m	Nos	2	2					
648	02-1009-1842	MS Panel Sheets with Locks(ASP)Thickness=2 Size=686x125x16m	Nos	3	3					
649	02-1009-1847	Furnance Gas Temp:T-couple Type-K Type-T-102(4900)Range-0-70	Nos	1	1					
650	02-1009-1851	U/G Telephone Cable Armounded 30 Pair 0.6mm	Mtrs.	140	140					
651	02-1009-1896	a)-Size-L33mm Thickness 3mm	Foot	508	508					
652	02-1009-1959	Infrared Dynamic Flame Detector Od-11 Model No. 38351-21	Nos	14	14					
653	02-1009-1960	Armmoured Thermo Couple Type-WRNK2-291 Size-5x7000mm	Nos	1	1					
654	02-1009-1962	WG Telephone Cable 200-Pair 0.6"mm	Mtr	230	230					
655	02-1009-1964	Valve Controller (Positioner) Model#760P	Nos	1	1					
656	02-1009-1968	Pressure Switch Model-FF4-4 Range 0.22-4bar ratting 220v 1A	Nos	3	3					
657	02-1009-2032	Temp:IndicatingSwitchRange-0-200(10x125mm)CoL=3Mtr(Capilla	Nos	3	3					
658	02-1009-2033	Pneumatic Valve retainer Type-ZPB-201	Nos	10	10					
659	02-1009-2068	High Press.Diferetail Transmitter Model-L1151HP7EZZMIB3D2	Nos	1	1					
660	02-1009-2069	High Press.Differentail Transmitter Model-1151 HP6EZZMIB3 DZ	Nos	2	2					
661	02-1009-2070	Limit Switch Type-WL D2	Nos	50	50					
662	02-1009-3092	Indication Bulb for Amunication Panel Pin Type 24-30V 2-3W	Nos	240	240					
663	02-1009-3122	HP Oil Servomotor Travel Sensor Type-TDZ Travel-0-180mm	Nos	1	1					
664	02-1009-3125	Pressure Gauge Range0-7Kg/CmDialSize-42mm	Nos	3	3					
665	02-1009-3126	Pressure Gauge Range0-10Kg/CmDialSize-42mmConnection Mole	Nos	1	1					
666	02-1009-3127	Air Seperater Valve for H2 CompressorModel#180MS-151 Size-1/8	Nos	2	2					
667	02-1009-3155	Switching Power Supply(ABS System)Model-PHH 06 5X Input115	Nos	2	2					
668	02-1009-3163	Level Float Switch	Nos	4	4					
669	02-1009-3178	Rubber Diaphragm Seal for A-ID Fan Regulator Size-304x71x4mm	Nos	6	6					

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670	02-1009-3179	Rubber Diaphragm Seal for b-Spray Regulator Size-148x60x4mm	Nos	4	4					
671	02-1009-3180	Pilot Valve of Gas Regulator i)Outerseal-41mm ii)Innerseal35mm5l	Set	10	10					
672	02-1009-3183	Diaphragm Seal for HP/LP By BassServoValveO/D-24mmI/D-17mr	Nos	10	10					
673	02-1009-3190	Designng&Manuf.of P.C.BSize-160x103x2mm Solt-96x8x2mmFibe	Nos	6	6					
674	02-1009-3201	Temp.GaugeTypeTL14-001Sensor-150x12mm(Dia) Dial100Range-	Nos	8	8					
675	02-1009-3225	Press.Gauge Dry Gauge Tyep-323-50 Range:1~3Kg/Cm2	Nos	6	6					
676	02-1009-3232	RoTOtherm Pressure Gauge Range-0`70Kg/Cm PPG-150 Dial-150	Nos	2	2					
677	02-1009-3255	Timer with Base 220VDC Fuji Glant Japan	Nos	12	12					
678	02-1009-3270	Liquid Filled Dial Thermometer With Therowall Range-0 to 300oC	Nos	3	3					
679	02-1009-3289	Pneumatic Indicating Conttiller Model-MC43-ASC-N*A/Gas FM/T	Nos	1	1					
680	02-1009-3294	Flag Relay 20-22-220 AX Finder	Pcs	1	1					
681	02-1009-3327	Lequied Level Float Switch Art#HMFB-VV V=55mm V=115mm	Nos	1	1					
682	02-1009-3329	Model No.DGMFN-Y-A2W-41	Nos	1	1					
683	02-1009-3344	BimetalDialThermoMotorWithThermoWallRange-0~100 Size-100(	Nos	1	1					
684	02-1009-3348	BimetalDialThermoMotorWithThermoWallSize-10x100Range-0~2(	Nos	1	1					
685	02-1009-3349	BimetalDialThermoMotorWithThermoWallSize-10x200Range-0~2(	Nos	1	1					
686	02-1009-3350	BimetalDialThermoMotorWithThermoWallSize-10x150Range-0~4(	Nos	4	4					
687	02-1009-3351	BimetalDialThermoMotorWithThermoWallSize-10x200Range-0~4(	Nos	5	5					
688	02-1009-3370	LimitSwitchFor3-wayHydralicValve 15 Amp,125/250AC(383/25/OZ	Nos	35	35					
689	02-1009-3372	Controll CableArmored (600/1000V) 10 Core Conductor Size-1.5m	Mtrs	2,606	2,606					
690	02-1009-3373	Controll CableArmored (600/1000V)14Core Conductor Size-1.5mm	Mtrs	1,807	1,807					
691	02-1009-3392	Cassette Ribbon for LR8100 Recorder Part No.B9585SH	Nos	7	7					
692	02-1009-3422	Lower Mount Glycerine Press.Gauge Range-0~1Kg/Cm2	Nos	2	2					
693	02-1009-3429	Temp:Fuse Indicating swith Type-SWS-2030I6Q/Range-15~35(12x	Nos	1	1					
694	02-1009-3506	Temperature Gauge Every Angle Type-Range 0~400Co Stem:10mm	Nos	1	1					
695	02-1009-3510	Temperature Gauge Every Angle Type-Range 0~150Co Stem:10mm	Nos	1	1					
696	02-1009-3511	LiquidFilledDialThermometerWithPointerContact Type-M4-GTSDi	Nos	2	2					
697	02-1009-3516	Thermocouple Spare for Boiler Dwg-P-207901 Dia-4.8 TL-372 IL-2	Nos	4	4					
698	02-1009-3527	Straight Male ConnectorWith Cap&FerruleMaterial:BrassSize-Tube	Nos	20	20					
699	02-1009-3531	Solinoid Valve MVW D-20 A-WY-ZN-DL 220 Press:0to 0.7MPA	Nos	16	16					
700	02-1009-3533	Master Fuel TRIP RELAY Lock-Out	Nos	1	1					
701	02-1009-3534	Timer Relay For(FSSS) Type-BS-12/Range-0 to 999	Nos	1	1					

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702	02-1009-3543	Flow Tranmitter Model-APT3100-D-Z-M-11-KO-I-S-I-MI-BF Rang	Nos	2	2					
703	02-1009-3544	Electrical Connfition=1=1/2|-14 NPT F M1=lcd Indicat	Nos	4	4					
704	02-1009-3546	Diff.Press.Tranmitter for High line Range-5=1.865 to186.5kpa/7.5t	Nos	7	7					
705	02-1009-3548	Press.Transmitter Range-6=6.69to690/kpa(1to100pss.)	Nos	1	1					
706	02-1009-3549	Press.Transmitter Range-6=6.9to690KPA(1to100PSI)Calib:Rang-0t	Nos	2	2					
707	02-1009-3572	Ultra Sonic Leak Detector Model-TMSU1 Make-SKF	Nos	1	1					
708	02-1009-3573	Liquid Filled Dial Thermo Meter With Thermowall "U" Lenght 120	Nos	4	4					
709	02-1009-3574	Liquid Filled Dial Thermo Meter With Thermowall "U" Lenght 150	Nos	6	6					
710	02-1009-3575	Liquid Filled Dial Thermo Meter With Thermowall "U" Lenght 300	Nos	2	2					
711	02-1009-3583	Pressure Transmitter Range-6-6.9 to 690KPA (1 to 100 Psi)	Nos	2	2					
712	02-1009-3642	Pressure Indicating Switch(PIS Dial Size-100mm Range-2~250 Kg/	Nos	6	6					
713	02-1009-3649	Pressure Switch Model-P5S-20-R3B(Range-0.2 to 2.0MPA)	Nos	5	5					
714	02-1009-3650	Handle VALVE Model-SUHZ-SW-8T-g-5316(Size-8T=1/2(Tube)	Nos	14	14					
715	02-1009-3655	3way Air Pilot operated Air Valve Model-USA-3135-03 port SiZe-3	Nos	2	2					
716	02-1009-3656	Auto/Manual Handle Locally Reguator Diaphram Size-52x2mm	Nos	100	100					
717	02-1009-3657	Torque Motor Upper/Lower Line "O" Ring 6x4x2mm APS (ODxTD	Nos	200	200					
718	02-1009-3658	Temp:IndicatingSwitchRange-0-120oC(10x375mm)	Nos	1	1					
719	02-1009-3659	Temp:IndicatingSwitchRange-0-120oC(10x150mm)	Nos	6	6					
720	02-1009-3661	Temp:IndicatingSwitchRange-0-120oC(10x90mm)	Nos	2	2					
721	02-1009-3662	Temp:Indicating Switch(type-Tus-25-ME)Range-0~200(10x90mm)	Nos	1	1					
722	02-1009-3663	Temp:Indicating Switch(type-Tus-25-ME)Range-0~200(10x200mm	Nos	1	1					
723	02-1009-3697	Compact Type 3way Solenoid Valve Model-M3P-0712-8GJ Size-8	Nos	7	7					
724	02-1009-3724	Horizontal Relay Assembly Kit repir P/N R3570Cx0022	Nos	3	3					
725	02-1009-3725	Press.Guage(Diaphragam)Disc Size-4" i-Module-PB.4.11.4MO 60K	Nos	10	10					
726	02-1009-3726	Press.Guage(Diaphragam)Disc Size-4" i-Module-PB.4.11.4MO 40K	Nos	10	10					
727	02-1009-3727	Press.Guage(Diaphragam)Disc Size-4" i-Module-PB.4.11.4MO 25K	Nos	11	11					
728	02-1009-3728	SolenoidValveForExtractorCheckValveModel-Bh-7M43-25-E-100(	Nos	2	2					
729	02-1009-3746	Press.Gauge Transmitter RANG-0-600MM Model-APT3100-G3-M1	Nos	1	1					
730	02-1009-3747	Press.Gauge Transmitter RANG-0-400MMModel-APT3100-G3-M1	Nos	1	1					
731	02-1009-3748	Press.Gauge Transmitter RANG-0-250MMModel-APT3100-G3-M1	Nos	1	1					
732	02-1009-3749	Press.Gauge Transmitter RANG-400-0MMModel-APT3100-G3-M1	Nos	2	2					
733	02-1009-3750	Press.Gauge Transmitter RANG-600-0MMModel-APT3100-G3-M1	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
734	02-1009-3751	Press.GaugeTransmitterRAG-200-0+200MMModel-APT3100-G3-M	Nos	1	1					
735	02-1009-3752	S.S Ball Valve Size-1/2 Inch	Nos	4	4					
736	02-1009-3753	RTV Sealing Gel	Nos	12	12					
737	02-1009-3765	Differential Pressure Switch Range 0~10Kg/Cm2	Nos	1	1					
738	02-1009-3766	Electric Buzzer Type-kH-403-2 Supply-220	Nos	3	3					
739	02-1009-3787	Pressure Gauge Mode-BA-15-2k3 Dial-60mm Range-0~40 kg t/cm2	Nos	7	7					
740	02-1009-3788	Pressure Gauge Mode-BA-15-2k3 Dial-60mm Range-0~150 kg t/cm	Nos	6	6					
741	02-1009-3789	Pressure Gauge Mode-BA-15-2k3 Dial-60mm Range-0~250 kg t/cm	Nos	10	10					
742	02-1009-3790	Pressure Gauge Mode-BA-15-263 Dial-100mm Range-1~3 kg f/cm2	Nos	6	6					
743	02-1009-3791	Pressure Gauge Mode-BA-15-263 Dial-100mm Range-1~2 kg f/cm2	Nos	2	2					
744	02-1009-3847	Control Cable 6*15mm	Mtr	15	15					
745	02-1009-3848	Control Cable 12*15mm	Mtr	300	300					
746	02-1009-3849	Digital Pressure Gauge Model-ADI680-25-CP100- Dial Size-100	Nos	1	1					
747	02-1009-3865	Rubber Ring Gas Kit 250 x 10	Nos	100	100					
748	02-1009-3866	Rubber Ring Gasket Size-240x6mm	Nos	100	100					
749	02-1009-3867	Rubber Ring Gasket Size-160x6mm	Nos	100	100					
750	02-1009-3868	Rubber Ring Gasket Size-95x2.5mm	Nos	100	100					
751	02-1009-3869	Rubber Ring Gasket Size-48x3.5mm	Nos	100	100					
752	02-1009-3874	Temp:Indicating Switch Range 0~400Co Dia-12mm lenght-1000mn	Nos	2	2					
753	02-1009-3876	Temp:Indicating Switch Range 0~150Co Dia-12mm lenght-200mm	Nos	3	3					
754	02-1009-3877	Temp:Indicating Switch Range 0~120Co Dia-13mm lenght-370mm	Nos	3	3					
755	02-1009-3879	Sonuojd valve model=Muwid-8A-WX,SUPPLY24V DL Size 1/2 in	Nos	1	1					
756	02-1009-3896	Pressure Gauge Model-160-T5500-S-L Range-0~6kg/cm2 GT-X=M	Nos	3	3					
757	02-1009-3897	Pressure Gauge Model-160-T5500-S-L Range-0~12kg/cm2 GT-X=N	Nos	21	21					
758	02-1009-3913	Pressure Switch Module FF-4-2 DAH Range 0~1.5Kg	Nos	1	1					
759	02-1009-3914	Vaccum Switch Module PSI - az R Range 0~760MM kG	Nos	6	6					
760	02-1009-3915	Electro Pneumatic Valve Possitioner Code DVC-2696-1575673	Nos	3	3					
761	02-1009-3916	Solenoid Valve for Exraction Check Drain Valve Type-NS664-003-	Nos	3	3					
762	02-1009-3950	Auxillary Relay for ABS Part No.700-NH40/B 700-NH40	Nos	2	2					
763	02-1009-3951	Elecronic Pressure Sensor with Display Model-PN-3093Range-0-25	Nos	1	1					
764	02-1009-3965	Displacement Sensor (LUDT) GV-Range-0-50mmType-TDZ-1B-31	Nos	5	5					
765	02-1009-3966	OPC-Solenod valve (Normaly open) Type-CCP-230D	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
766	02-1009-3967	AST Solnoid Valve (Normally Closed) Type-CCP-230D	Nos	1	1					
767	02-1009-3968	Turbine Rese Control Valve With Solenoid 23- DZ-63B	Nos	1	1					
768	02-1009-3969	Displacement Sensor(LVDT)For RSV Range:0-200mm Type-TDZ-I	Nos	1	1					
769	02-1009-3970	Displacement Sensor(LVDT)For MSV&ICV Range:0-100mmType-	Nos	4	4					
770	02-1009-3971	Over Speed protection Control Valve OPL (Normaly Closed)	Nos	1	1					
771	02-1009-3972	Automatic Shut off Valve AST (Normally OPEN)	Nos	1	1					
772	02-1009-3976	Pressure Gauge DRY Guage Type Range0~25KG/CM2 Temp-400C	Nos	8	8					
773	02-1009-3977	Pressure Gauge DRY Guage Type Range0~40KG/CM2 Temp-400C	Nos	12	12					
774	02-1009-3978	Pressure Gauge DRY Guage Type Range0~100KG/CM2 Temp-300	Nos	6	6					
775	02-1009-3979	Pressure Gauge DRY Guage Type Range0~250KG/CM2 Temp-600	Nos	7	7					
776	02-1009-3980	Pressure Gauge DRY Guage Type Range0~25KG/CM2 Temp-400C	Nos	30	30					
777	02-1009-3981	Pressure Gauge DRY Guage Type Range0~250KG/CM2 Temp-600	Nos	6	6					
778	02-1009-3983	Pressure Gauge Glycern Fiued Type Range0~25KG/CM2 Temp-400	Nos	4	4					
779	02-1009-4001	TimesForABSLogicCasbinet T=Bulletin 700dc-N400-Z2-C(Rang-1t	Nos	2	2					
780	02-1009-4007	Elctro Penumatic Valve Positioner Type-4700E (DC4-40Ma)	Set	2	2					
781	02-1009-4008	Air Filter Regulator Type:330(Air Prenure:0-10 kg/Cm2)	Nos	13	13					
782	02-1009-4018	Switching Power Supply for Auto Burner System (ABS) PROTOPI	Nos	1	1					
783	02-1027-0002	Reactance Changover	set	2	2					
784	02-1027-0003	Presure Controller	Pcs	4	4					
785	02-1027-0004	Presure Controller D50 2/7D 2~2.5Bar	Pcs	6	6					
786	02-1027-0005	Presure Controller D50 2/7D 2~2.1Bar	Nos	7	7					
787	02-1027-0007	Sleeve Capacitor Level Guage	set	4	4					
788	02-1027-0008	911C Card for FSSS No.8AJ.067-529	Nos	40	40					
789	02-1027-0009	Mz-III Protection module ZDFB-1000	Pcs	12	12					
790	02-1027-0010	Penumetic Actuater Controller	Pcs	16	16					
791	02-1027-0016	Oil Gun Solonied valve Type-DQK-2422	Nos	24	24					
792	02-1027-0018	FurnanceDraftTransmitterTypeModelNo.DP5SMLB3 DIDF(DP352	Pcs	1	1					
793	02-1027-0020	Pilot Valve	Pcs	27	27					
794	02-1027-0021	Torque Motor	Pcs	12	12					
795	02-1027-0023	Transformer 220V AC/24VAC	Pcs	29	29					
796	02-1027-0025	f)Base Plate for Pilot Valve	Pcs	28	28					
797	02-1027-0026	Solonied Valve for Make up of stator Cooling Water SCW	Pcs	2	2					

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1	2	3	4	5	6	7	8	10	11	12
798	02-1027-0028	Selector Switch(2KK) Model LW5-16E 5814/3 380V,13A	Nos	16	16					
799	02-1027-0029	Selector Switch (3KK) LW5-16 D%411/2 500V-16A	Nos	14	14					
800	02-1027-0031	Selector Switch forgas trip Valve Type-LWXIB33/F4-8X Supply	Pcs	2	2					
801	02-1027-0033	6ACS Card FSSS DWG-8AJ.C67.527	Pcs	12	12					
802	02-1027-0043	Heavy Duty Limit Switches for Open/Close 3-Way Valve Model-LS	pCS	36	36					
803	02-1027-0044	Heavy Duty LimitSwitches for Purge Position3-Way Valve Type=LS	Pcs	1	1					
804	02-1027-0045	2/4 Flame Indication&Failure Alarm Card 8AJ-066-555	Pcs	2	2					
805	02-1027-0046	Frequency Check Card 81J-066-555	Pcs	4	4					
806	02-1027-0047	Light intensity Failure Check Card 8AJ-066-556	Pcs	6	6					
807	02-1027-0048	Lamp and Indicator Card 8AJ-066-556	Pcs	2	2					
808	02-1027-0050	FSSS Control Card (12 LD Card 8AJ-066-642)	Pcs	7	7					
809	02-1027-0051	FSSS Control Card (3 TD Card 8AJ-066-634)	Pcs	27	27					
810	02-1027-0052	FSSS Control Card (3 RM Card 8AJ-066-644A	Pcs	36	36					
811	02-1027-0053	FSSS Control Card (5R+D Card 8AJ-067-524)	Pcs	5	5					
812	02-1027-0054	SS Card	Pcs	2	2					
813	02-1027-0055	FSSS Control Card (LPS Card 8AJ-066-650	Pcs	4	4					
814	02-1027-0056	FSSS Control Card (4VM Card 8AJ-067-528	Pcs	5	5					
815	02-1027-0057	Auto Manual Selector Switch (1KK) Type-LW-515N7216/7	Nos	24	24					
816	02-1027-0059	Screw in Type Electrod DJM 1615-115(Boiler Drum JDX-12A)	Pcs	130	130					
817	02-1027-0063	HP/P/LP Servomotor Travel Card	Pcs	1	1					
818	02-1027-0064	Rotation Speed Check Card	Pcs	2	2					
819	02-1027-0066	Bearing Vibration Check Card	Pcs	5	5					
820	02-1027-0067	Shaft Viberation Detector	pcs	2	2					
821	02-1027-0068	Shaft Vibration Check Card	Pcs	10	10					
822	02-1027-0071	ZDGM-6010	Pcs	7	7					
823	02-1027-0078	Electro Pneumatic Converter QZD-1000	Pcs	3	3					
824	02-1027-0081	Servo Amplifier(DDZ-III Associated with DKJ-310 Motorized Actu	Pcs	1	1					
825	02-1027-0084	Air Filter Reducing Valve (for Base Station Meter)Type-QPH261 N	Pcs	7	7					
826	02-1027-0091	Drum Level Electric Conract Indicator DFS2 Range-300mm to +300	Set	1	1					
827	02-1027-0092	Wrnk2-292 5X3000 Type:WRN292 (Thermo Couple)	Pcs	3	3					
828	02-1027-0094	Electric Contact Level Indicator UDX-12-A	Set	11	11					
829	02-1027-0098	BI-Metalic Thermometer Rage 0-200oC 05x300mm	Pcs	6	6					

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ASSISTANT MANAGER STORES

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1	2	3	4	5	6	7	8	10	11	12
830	02-1027-0099	BI-Metalic Thermometer Rage 0-100oC 05x300mm	Pcs	4	4					
831	02-1027-0100	BI-Metalic Thermometer Rage 0-100oC 05x400mm	Pcs	16	16					
832	02-1027-0101	BI-Metalic Thermometer Rage 0-150oC 05x300mm	Pcs	2	2					
833	02-1027-0106	DifferentalPresureSwitchforCondensatePumpM-08233108Ran.0.00	Pcs	1	1					
834	02-1027-0107	Tow Pol On/Off Switch With Fuse&Lamp Type:SK2 Voltage:220V.	Pcs	7	7					
835	02-1027-0114	Push Buttons of oil Burners & Secondary Air Dampers Type LA-18-	Pcs	38	38					
836	02-1027-0116	RTD's Cu-50, WZCMK-042 Size: 4*25*3000	Pcs	30	30					
837	02-1027-0119	Slector Switch For Secondary Air Dampers Type:LWX2-H33J332F4	Pcs	9	9					
838	02-1027-0120	SolenoidValveforInstrumentAirComp Model.QY23D-2 2 Position 3	Pcs	6	6					
839	02-1027-0124	Pressure Booster Relay Model IL100 Max:Supply Press:9.7 Kgf/cm	Nos	2	2					
840	02-1027-0125	Sol,enoid valve for make up & discharge sealing oil tank 220 vdc	Nos	8	8					
841	02-1027-0126	12 Pin connector for ignitor (Male/Female) Make Acheng Relay wo	Nos	2	2					
842	02-1027-0127	Switiching power supply for Das-100 system Model No.M801 5V	Nos	6	6					
843	02-1027-0128	Switching power supply for Das-100 Model M80312V + 15V	Nos	8	8					
844	02-1027-0129	Turbine speed sensors ZS-1 Make Harbin Turbine works China	Nos	10	10					
845	02-1027-0131	ZDJX-1000 MULTIPLIER MODULE	NOS	7	7					
846	02-1027-0133	ZDFZ-1000 DAMPING MODULE	Nos	28	28					
847	02-1027-0134	ZDKC-3010 SWITCHING MODULE	NOS	2	2					
848	02-1027-0135	Transfer Module ZDKC-1090	NOS	9	9					
849	02-1027-0136	CU-50 RTDS Type WZCMK-042 Size:4x25x500mm	NOS	44	44					
850	02-1027-0137	ZDTD-6020	Nos	2	2					
851	02-1027-0138	ZDGA-6000	Nos	3	3					
852	02-1027-0141	Synchronizer Travel Sensor TDZ-1	Nos	1	1					
853	02-1027-0143	Main oil tank level module.	Nos	1	1					
854	02-1027-0149	Flexible Hose ARGUS 480913	Nos	7	7					
855	02-1027-0151	Adjustable throttle valve complete DV8	Nos	3	3					
856	02-1027-0152	Model DV12	Nos	3	3					
857	02-1027-0153	Accumulator manifold connection block 77576	Nos	2	2					
858	02-1027-0154	Seal set for Acumulator manifold (SAB6)	Set	2	2					
859	02-1027-0165	Non contacting displacement transducers in 083	Nos	2	2					
860	02-1027-0168	Oscillators of-051 for non contacting sensor SD-053	Nos	2	2					
861	02-1027-0169	Non contacting eddy current sensors SD-084	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
862	02-1027-0170	Oscillators OD-081 for non contacting sensor SD-084	Nos	1	1					
863	02-1027-0177	Monitor modules GP-420	Nos	1	1					
864	02-1027-0178	Monitor modules TA-410	Nos	1	1					
865	02-1027-0180	Displacement sensor K-WA/200 MM-L	Nos	1	1					
866	02-1027-0182	Electro Dynamic vibration sensor for portable vibometer	Nos	1	1					
867	02-1027-0183	Accelertion sensor for portable vibrometer vibro-60	Nos	1	1					
868	02-1027-0184	Displacment Sensor TypeDTC 50 Range:+/-20mm Cable Lenght:3.0	Nos	1	1					
869	02-1027-0185	Electro Magnetic(Electromotor Governor)MaxOutput.DC90v/20A	Nos	3	3					
870	02-1027-0189	Wire Comple:Conductivity Meter for Unit#1a)Model-SC202G b)SC	Nos	1	1					
871	02-1027-0190	T-Meter/Temp:SwitchforU#1(IndicatorModel-TF56)Dwg-G2-2F R1	Nos	4	4					
872	02-1027-0191	Instrument Section Turbine Safety Supervisory SystemPQAJ-IVSpa	Nos	1	1					
873	02-1027-0192	Transmission Cable With Cnnector For FSSS System DWG-8AJ 066	Nos	22	22					
874	02-1027-0194	Sealing Oil Level Transmitter With Indicator Range-0-1000mmH2C	Nos	1	1					
875	02-1027-0195	Drum Level Transmitter 1151 With Indicator Raneg-320-0+320mm	Nos	2	2					
876	02-1027-0197	"ETA" Brand Switching Power Supply Model-VTE-15SZ	Nos	1	1					
877	02-1027-0199	IGNITION ROADS For U#01 Type:HE-2410 S Dia-21.07mm	Nos	11	11					
878	02-1027-0202	Over Speed Tripper Module Type-PQAJ-IV-007	Nos	3	3					
879	02-1027-0203	Thermal Expenshion Sensor TD-Z 0~35mm Turbine Safety sys	Nos	1	1					
880	02-1027-0205	Armored Thermo couple WRNK 2-291 a).dia 5x3000	Nos	30	30					
881	02-1027-0207	Armored Thermo couple WRNK 2-291 a).dia 5x5000	Nos	20	20					
882	02-1027-0211	Liquid Filled Dial Thermometer Range 0-250 CthermowallL=400m	Nos	1	1					
883	02-1027-0212	Liquid Filled Dial Thermometer Range 0-350 CthermowallL=400m	Nos	2	2					
884	02-1027-0213	Liquid Filled Dial Thermometer Range 0-200 CthermowallL=400m	Nos	3	3					
885	02-1027-0215	Liquid Filled Dial Thermometer Range 0-200 CthermowallL=500m	Nos	1	1					
886	02-1027-0217	Tepmreture Gasges Type TL-14-001 Range-0-400 C	Nos	2	2					
887	02-1027-0218	Tepmreture Gasges Type TL-14-001 Range-0-300 C	Nos	2	2					
888	02-1027-0220	Tepmreture Gasges Type TL-14-001 Range-0-150 C	Nos	6	6					
889	02-1027-0221	Tepmreture Gasges Type TL-14-001 Range-0-100 C	Nos	2	2					
890	02-1027-0225	Gear 30 Part No.H4G05838	Nos	4	4					
891	02-1027-0226	ARM Assembly Part#H4A12078	Nos	3	3					
892	02-1027-0227	Gear 48 H Part # H4a12076	Nos	4	4					
893	02-1027-0228	Gear 45 Part # H4a12077	Nos	4	4					

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894	02-1027-0229	Stop Ring (3) HPSAG009A004	Nos	3	3					
895	02-1027-0232	Servo Unit Part#HMS4 1061A002	Nos	4	4					
896	02-1027-0234	Gear 58 Part No.H4A1209101	Nos	65	65					
897	02-1027-0235	MV Type Part#HMSU 1053A20102	Nos	2	2					
898	02-1027-0236	TC Type Part#HMSU 1053A20202	Nos	2	2					
899	02-1027-0238	MA Type Part#HMSU 1053A20502	Nos	3	3					
900	02-1027-0247	Speed Control Motor for Boiler Feed Pump Type-MCH-40C Model#	Nos	1	1					
901	02-1027-0248	Differential Pres:Indicating Switch for HSDModel#DG-98-173-2C0	Nos	5	5					
902	02-1027-0249	Air Speed Controler for Burner For HSD Type-SC6F-02-10A	Nos	19	19					
903	02-1027-0250	Speed Controller for Cylinders Mode#SC6-04-15A	Nos	14	14					
904	02-1027-0253	Stude of HP Inner Casing ThermoCouples With Washer and Lock S	Nos	5	5					
905	02-1027-0255	Gas Tooth Washer for HP Inner Cassing(Lower)Thermocouple Flan	Nos	2	2					
906	02-1027-0264	Digital Indicator for Boiler Feed PumpSpeed(Type-ADP-N-414-15R	Nos	1	1					
907	02-1027-0266	Differential Pressure Indicator Switch for Filter(Model-DG-98-WO1	Nos	1	1					
908	02-1027-0268	Solenoid valve Type#M3P-0712-8GJ Press.0.1.0Mpa	Nos	3	3					
909	02-1027-0270	Solenoid Valve for Burners Supply 48V.D.C Model-#414 D3O2C-B	Nos	9	9					
910	02-1027-0271	Rottaly Actuator Type.TA2-080-D-00	Nos	16	16					
911	02-1027-0273	Armored Thermaocouple WRNK 2-291 d)5x7000	Nos	20	20					
912	02-1027-0276	Boiler Drum Level Transmitter 1151 with Indicator HP4E12M1B3D	Nos	2	2					
913	02-1027-0277	Vacum Transmitter 1151 DPSE 12 M1B3 D2 range-760-0mm HG	Nos	1	1					
914	02-1027-0279	I.P Converter For Sec: Air Damper QDZ-1000 4~20mA	Nos	10	10					
915	02-1027-0281	Lukup Valve 78-80S	Nos	15	15					
916	02-1027-0287	Chart No.H4H 12203 225mmx25.0m/Roll Thermo Roll(Internal Dia	Roll	50	50					
917	02-1027-0295	Gase Burneer Control Soenoid Valve Sr#FS13095 Cat#8320G5	Nos	31	31					
918	02-1027-0299	Temperature Calibrator Model#TEMPCAL 650F Dry Block	Nos	1	1					
919	02-1027-0301	SolenoidV/VForAirOfMiniFlowV/VType-8344A 73 WITH TB.1049	Nos	3	3					
920	02-1027-0302	Electromagnetic Detector Tyep-MP 930 DC Resistance 850-950	Nos	1	1					
921	02-1027-0303	Solenoid V/V for extraction check V/v Type-NS 664-003	Nos	1	1					
922	02-1027-0304	Mini Fold V/V Assembly/Eqyalizing V/V Type-FFN4JVO3-A4	Nos	6	6					
923	02-1027-0306	Air Filters For T.V Camera Moisture Separator Model-AM450-04D	Nos	1	1					
924	02-1027-0307	2-WaySolenodV/VForServiceAirCompre:TypwYSF2-40 WJ Dgw.Y	Nos	6	6					
925	02-1027-0308	ElectroPneumaticV/VPositionerTypeDVC6010HC CLI-DIVI-GP D-	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
926	02-1027-0309	PnuematicPositionerType3582GRActuator:667(40)InputSignal-0.6-	Nos	2	2					
927	02-1027-0310	PnuematicPositionerActuator:657(40)InputSignal-0.2-O.6kg V/V 29	Nos	2	2					
928	02-1027-0311	PositonerForPenumaticActuatorTyep-35070CRInput0.2~1.0 KgPres	Nos	2	2					
929	02-1027-0314	Degital Level Transmiter Type-DLC3010 Range-300 to +300mm H2	Nos	2	2					
930	02-1027-0315	Secsor Accembely for Condenser Level Transmitter Type-1N10074(	Nos	2	2					
931	02-1027-0319	Lubricator Type-AL40-02(PT 1/4)Drg.AA-213348 Cap.135cc Press.	Nos	3	3					
932	02-1027-0320	Tranducer Circuit Card (A24R-023 H4-LVD)	Nos	1	1					
933	02-1027-0321	Thermo Resistance WZP -2-220 6*1000 P1100-Icv	Nos	12	12					
934	02-1027-0324	Temperature Transmitter ITE 5351-3101,0~300i	Nos	7	7					
935	02-1027-0325	Temperature Transmitter ITE 5351-2102 ,0~600i K220 50 HZ	Nos	2	2					
936	02-1027-0326	Movable Ring Indicater I series 4135-2000 , 4-20ma	Set	5	5					
937	02-1027-0327	Reactance Convertor IBS-1211,900 w/H Times:1	Set	1	1					
938	02-1027-0328	Digital Counter u/c 5217-0100,900 w/h Time-1	Set	1	1					
939	02-1027-0329	Accumulator 5361-1000,900 w/h Times-1	Set	1	1					
940	02-1027-0330	Reactance Change Over IBS 5357-1211,800 Ws/H Time-1	Set	2	2					
941	02-1027-0331	Counter UK -5217 - 0100 800 Ws/H Times-1 Unit-T	Set	1	1					
942	02-1027-0332	Digital Counter u/c 5217-0100,200 w/h Time-1 Unit:M3	Set	1	1					
943	02-1027-0333	Counter UK -5217 - 0100 500 Ws/H Times-1 Unit-T	Set	1	1					
944	02-1027-0334	Reactance Converter IBS 5357-1211,500 Ws/H Time-0.1M3	Set	2	2					
945	02-1027-0335	Counter UCI -217 - 0100 Ws/H Times-1 Unit-M3	Set	1	1					
946	02-1027-0337	Transmitter Amplifier Card 1151 HP-0307-0001	Set	10	10					
947	02-1027-0338	Amplifying Card 1151 DP-0378-0001	Set	10	10					
948	02-1027-0339	Travel Card 1151.DP.0377-0001	Set	20	20					
949	02-1027-0340	Movable Ring Device XFI,102,P1100,0~150c	Set	2	2					
950	02-1027-0341	Travel Card Curporated With ER10 Recorder	Set	13	13					
951	02-1027-0343	Diff:Pressure Transmitter 1151 GP%E 12B 3 DI 760 mm Hgo	Set	1	1					
952	02-1027-0344	Pressure Guage Y-150 01~150 01~0 Mpa	Pcs	3	3					
953	02-1027-0345	Oxygen Analyzer RH 2151 A	Set	3	3					
954	02-1027-0346	Acid Concentrator Guage DDG-55A,0-8% HCL	Set	2	2					
955	02-1027-0349	MZ-III Supervision Module ZDGB-2000	Pcs	13	13					
956	02-1027-0351	MZ-III Limilation Module ZDFF-1000	Pcs	2	2					
957	02-1027-0352	MZ-III Selecting Module ZDFF-1000	Pcs	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
958	02-1027-0353	Feed Back balancer Pf Ait Source Position KF Series	Pcs	12	12					
959	02-1027-0354	High Temp:Proof Compensate Lead 2*1.5 E stage	Mtr	300	300					
960	02-1027-0357	L.V Crane Lamp Transformer 50~60 Hz	Set	6	6					
961	02-1027-0358	Motorize Screner	Set	2	2					
962	02-1027-0359	Micro Motorize Plate Cutter	Nos	1	1					
963	02-1027-0360	Double Branch Thermo Coupling WZP-620 PT-100 L=250	Pcs	1	1					
964	02-1027-0361	Armature Thermo Coupling	Pcs	6	6					
965	02-1027-0362	Armature Thermo Coupling 6*300	Pcs	2	2					
966	02-1027-0367	Thermo Resistance WZP2-220	Nos	1	1					
967	02-1027-0368	Thermo Resistance WZP2-220 16*500 PT.100	Nos	4	4					
968	02-1027-0371	Recorder ER.188-GBMA-N 0~100c	Nos	1	1					
969	02-1027-0372	Recorder RE 102 A1H 510,4~20ma	Nos	4	4					
970	02-1027-0373	Cow Head Water Guage	Set	2	2					
971	02-1027-0374	B.Steel level Guage UHZ-111 A 0~16m	Set	2	2					
972	02-1027-0375	B.Steel level Guage	Set	2	2					
973	02-1027-0376	Accumotator ISN-5361-1000,200 Ws/H	Set	2	2					
974	02-1027-0377	Accumotator ISN-5361-1000	Set	2	2					
975	02-1027-0378	Transmitter tarvel Card 1151-HP-0309-0001	Pcs	20	20					
976	02-1027-0379	"O" Type Stand Ring 1151-HP-0034/0035-0002	Pcs	11	11					
977	02-1027-0380	Amplifying Card	Pcs	16	16					
978	02-1027-0381	Accumulating/Range Card	Pcs	4	4					
979	02-1027-0382	Transmitter Contact	Pcs	102	102					
980	02-1027-0383	Electric Sensor Censivity	Pcs	1	1					
981	02-1027-0384	Rotor Vibration Sensor	Pcs	1	1					
982	02-1027-0385	Industry Concentrated Guage PHS-217,01 4HP 4~200A	Set	4	4					
983	02-1027-0386	Conductivity Meter 5203 Output 4~20mA	Pcs	7	7					
984	02-1027-0389	MZ III Output Module ZDZC-1000	Pcs	1	1					
985	02-1027-0390	MZ III Valve Setting Module ZDGM-6010	Pcs	2	2					
986	02-1027-0391	MZ III -F Servo Position Sensor WYBH-11	Pcs	2	2					
987	02-1027-0392	MZ III Micro Operating Device ZDFH-2000	Pcs	7	7					
988	02-1027-0393	Hyderochloric Level Regulator	Set	6	6					
989	02-1027-0394	Press: Local Regulator 0~100	Set	3	3					

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1	2	3	4	5	6	7	8	10	11	12
990	02-1027-0395	Operating button 5Amp	Pcs	26	26					
991	02-1027-0397	Triode 3DG12 13	Pcs	95	95					
992	02-1027-0398	Diode 2CK4A	Pcs	100	100					
993	02-1027-0399	Diode 2CK5A	Pcs	100	100					
994	02-1027-0400	Diode	Pcs	100	100					
995	02-1027-0401	Relay DZ-52,24vAC	Nos	18	18					
996	02-1027-0402	Relay DZ-51,220vDC	Nos	3	3					
997	02-1027-0403	Multi Ring Micro (potentio meter)	Nos	200	200					
998	02-1027-0404	MT-III Analze Device	Pcs	2	2					
999	02-1027-0405	Patinum Electrolysis Capacitor +100-25	Pcs	80	80					
1000	02-1027-0406	Patinum Electrolysis Capacitor +22-25	Pcs	80	80					
1001	02-1027-0409	Resistance Copper WZC-220/WZCK-03	Nos	1	1					
1002	02-1027-0410	Tracing Scanner Sex-60A	Set	4	4					
1003	02-1027-0411	Module Calibrating Device ZDFX-1000	Set	1	1					
1004	02-1027-0412	Armored Thermocouple WRNK2-291 A)5x2000mm	Nos	40	40					
1005	02-1027-0414	Thermo Coupling WRN-614/WRNK-614	Nos	4	4					
1006	02-1027-0415	Analog RPM Meter Input 4-20mA Output 0-3500 RPM	Nos	1	1					
1007	02-1027-0417	Metal Sheet Thermocouple 5*1000 10RNK-614	Nos	2	2					
1008	02-1027-0421	Signal geber S4+4K	Nos	3	3					
1009	02-1027-0425	AFS-1000 System Cabinet For AFS-05 Upgrade (Cabinet Only)	Nos	2	2					
1010	02-1027-0427	AFS-MB-12B Mother Board for AFS-SBC-05 Controlle16 I/O card	Nos	1	1					
1011	02-1027-0428	AFS-CPC-05Communication inter face card Rj-45 and BNC Connec	Nos	1	1					
1012	02-1027-0429	PCB assembly AFS-CI-05 Interface Card	Nos	1	1					
1013	02-1027-0430	AFS-CIS-05B Cable Interface Slave Card With terminating resistors	Nos	1	1					
1014	02-1027-0434	Ethernet hub 10/100	Nos	1	1					
1015	02-1027-0435	Ethernet Switch	Nos	1	1					
1016	02-1027-0444	Stud for Turbine Thermocouple M16x1.5mm Dia6mm L=-38mm O	Nos	24	24					
1017	02-1027-0445	STUD FOR H.P INNER CASING M16X1.5MM DIA 6MM STUD I	NOS	16	16					
1018	02-1027-0448	Oil Proof Flouring Conducting Wire Multi Stranded Flexible 1.2mm	Mtrs	400	400					
1019	02-1027-0452	Paper Less Recoder GX20 1F/C3/UH/US30/CR40 (30Chanel	Nos	6	6					
1020	02-1027-0453	Synchronizer Travel Module	Nos	1	1					
1021	02-1027-0455	Magnesium Oxide Fuel Oil Additive for U#1234 (Pentomag 2000)	K.G	32,800	32,800					

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1	2	3	4	5	6	7	8	10	11	12
1022	02-1027-0469	RACK-MountedPrtintedCircuitBoard(InputBuff CardAssembly#310	Nos	7	7					
1023	02-1027-0470	RACK-MountedPrtintedCircuitBoard(InputBuff CardAssembly#342	Nos	3	3					
1024	02-1027-0477	Euro Card Power amplifier Type-EEA-PAM-525-A-32	Nos	1	1					
1025	02-1027-0478	Proportionally Valve Type-KDG4V-52C50N-Z-MUH7-30	Nos	1	1					
1026	02-1027-0479	Directional ValveType-DG4V-5-2AJ-MUH620(INSTEAD OF)MUH	Nos	1	1					
1027	02-1027-0480	Directional Valve Type-DG4V-3-24-A-MUH730 REPLACED BY I	Nos	1	1					
1028	02-1027-0489	2SA583-Auma SIPOS S HIMOD(Flange 1-F10 DIN ISO5210 Shaft:	Nos	5	5					
1029	02-1027-0490	GF 100.3 Auma Lever Gear BOX(InputF10 Shaft D=2mm)	Nos	5	5					
1030	02-1027-0491	Armored Thermocouple WRNK2-291 D)5x10000mm	Nos	20	20					
1031	02-1027-0499	Spare Parts for the five Year As Per V1-6 Supply list	Set	1	1					
1032	02-1027-0500	Ignition Rod XDZ-1-2800 Lenght:2.8mm Dia-16mm Flex Pipe 14m	Nos	27	27					
1033	02-1027-0501	Ignition Cable XDL-7m(With LEAD)	Sets	29	29					
1034	02-1027-0502	E H Oil Filter Diferent Size 4,8,16,6,2 (JFOB-73)	Nos	36	36					
1035	02-1027-0503	Servo Valves Model:SM4-20(15)57+80/40-10-s182	Nos	8	8					
1036	02-1027-0504	Joint - 25 / M33x2	Nos	2	2					
1037	02-1027-0505	Joint - 15 / M14x15	Nos	1	1					
1038	02-1027-0506	Tee 25	Nos	1	1					
1039	02-1027-0507	Elbow - 25	Nos	8	8					
1040	02-1027-0508	Welding Adopter Tube 25/14	Nos	1	1					
1041	02-1027-0509	Pressure Reduction Valve	Nos	1	1					
1042	02-1027-0510	Shut Off Valve For Instrument (Pressure Switch)	Nos	3	3					
1043	02-1027-0511	Seal Gasket For Shut Off Valve For Instrument	Nos	20	20					
1044	02-1027-0512	Connecting Rod For LVDT Unit	Nos	2	2					
1045	02-1027-0513	Specual Nut For Connecting Rod	Nos	2	2					
1046	02-1027-0515	Thread Seal Tape	Nos	1	1					
1047	02-1027-0516	Sealant	Nos	1	1					
1048	02-1027-0517	XINHUA XDC 800 Control System Hardware manual	Nos	5	5					
1049	02-1027-0518	ONXDC Software system Manual	Nos	5	5					
1050	02-1027-0519	ONXDC XCLI Function Blocks Manual	Nos	5	5					
1051	02-1027-0520	Penumatic Actuater Manual	Nos	2	2					
1052	02-1027-0521	DKZ Quarter Turn Electric Acuators Operation Instruction	Nos	2	2					
1053	02-1027-0522	DKJ Quarter Turn Electric Acuators Operation Instruction	Nos	5	5					

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1	2	3	4	5	6	7	8	10	11	12
1054	02-1027-0523	O Ring 23x2.65	Nos	3	3					
1055	02-1027-0524	O Ring 160x4.5mm	Nos	1	1					
1056	02-1027-0525	O Ring 108.6x5.7	Nos	1	1					
1057	02-1027-0526	O Ring 9x1.8	Nos	2	2					
1058	02-1027-0527	O Ring 20 x 2	Nos	2	2					
1059	02-1027-0528	O Ring 98.8 x 3.1	Nos	2	2					
1060	02-1027-0529	O Ring 47 x 2.5	Nos	2	2					
1061	02-1027-0530	O Ring 42 x 4	Nos	2	2					
1062	02-1027-0531	O Ring 25.6 x 3.2	Nos	10	10					
1063	02-1027-0532	O Ring 22 x 2.5	Nos	5	5					
1064	02-1027-0533	O Ring 19.5 x 2.5	Nos	2	2					
1065	02-1027-0534	O Ring 18 x 2	Nos	2	2					
1066	02-1027-0535	O Ring 16 x 1.5	Nos	3	3					
1067	02-1027-0536	O Ring 14 x 1.5	Nos	2	2					
1068	02-1027-0537	O Ring 14 x 2	Nos	5	5					
1069	02-1027-0538	O Ring 12 x 2	Nos	10	10					
1070	02-1027-0539	O Ring 11 x 1.5	Nos	2	2					
1071	02-1027-0540	O Ring 10 x 2	Nos	2	2					
1072	02-1027-0541	O Ring 9 x 1.5	Nos	2	2					
1073	02-1027-0542	O Ring 6.5 x 1.5	Nos	2	2					
1074	02-1027-0543	O Ring 5 x 1.5	Nos	2	2					
1075	02-1027-0544	O Ring 15.2 x 2.4	Nos	2	2					
1076	02-1027-0545	O Ring 35 x 3.5	Nos	2	2					
1077	02-1027-0546	O Ring 35 x 53	Nos	2	2					
1078	02-1027-0547	O Ring 37 x 3.5	Nos	2	2					
1079	02-1027-0548	O Ring 43.8x3.1	Nos	2	2					
1080	02-1027-0549	O Ring 104x3	Nos	2	2					
1081	02-1027-0550	O Ring 28x2?	Nos	2	2					
1082	02-1027-0551	O Ring 55.2 x 2.65	Nos	2	2					
1083	02-1027-0552	O Ring 8.2 x 1.9	Nos	1	1					
1084	02-1027-0553	O Ring 103 x 3.55	Nos	1	1					
1085	02-1027-0554	O Ring 29 x 3	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
1086	02-1027-0556	O Ring 10.8x1.9	Nos	5	5					
1087	02-1027-0557	O Ring 39.8x3	Nos	3	3					
1088	02-1027-0558	O Ring 57x4	Nos	2	2					
1089	02-1027-0559	O Ring 25 x1.8	Nos	4	4					
1090	02-1027-0560	O Ring 7.1 x1.8	Nos	2	2					
1091	02-1027-0561	O Ring 192 x5	Nos	2	2					
1092	02-1027-0562	O Ring 63.8 x 8x3.1	Nos	2	2					
1093	02-1027-0563	O Ring 34 x 3	Nos	9	9					
1094	02-1027-0564	O Ring 17 x 2.5	Nos	5	5					
1095	02-1027-0565	O Ring 31.6 x 3.2	Nos	2	2					
1096	02-1027-0566	O Ring 12 x 2	Nos	1	1					
1097	02-1027-0567	O Ring 14 x 2	Nos	1	1					
1098	02-1027-0568	O Ring 34 x 2	Nos	1	1					
1099	02-1027-0569	O Ring 25.6x3.2	Nos	1	1					
1100	02-1027-0570	O Ring 25x3.5	Nos	2	2					
1101	02-1027-0573	O Ring Various Size	Nos	56	56					
1102	02-1027-0574	DB 20 Valve (D820 -2-30/31.5	Nos	1	1					
1103	02-1027-0576	Maiter Card Of Lared	Nos	1	1					
1104	02-1027-0577	Soleniod Valve Correct Model:440-31415-8A-no.10-dc 220	Nos	1	1					
1105	02-1027-0578	HP Bypass Shutoff V/V DGMX2-5-PA-BH-B-30(4500PSI)290-420	Nos	2	2					
1106	02-1027-0579	Ourput Buffer Card PCB Assembly AFS-IO-03, P/N 31133101	Nos	3	3					
1107	02-1027-0581	Turn Actuator(Model-v68151.0110.374.278.344.680.253Z1E)	Set	4	4					
1108	02-1027-0582	Power Supply Unit Model No.MP - 1P1 (MP-1 Series)	Nos	1	1					
1109	02-1027-0583	Over Speed Module Model No.MP - IS (MP 1 Series)	Nos	1	1					
1110	02-1027-0584	Over Speed Protection System (Mp 1 series)	Nos	1	1					
1111	02-1027-0585	Shinkawa TSI Product (VM-7B) Model-VM-751B1	Nos	1	1					
1112	02-1027-0586	Shinkawa TSI Product (VM-7B) (Model-VM-701B/PM0/AL0/TB1)	Nos	1	1					
1113	02-1027-0587	Shinkawa TSI Product (VM-7B) model-(VM-703B/TB1)	Nos	1	1					
1114	02-1027-0588	Shinkawa TSI Product (VM-7B) Model-(FL-202f08l-m2-00-05-10)	Nos	1	1					
1115	02-1027-0589	Shinkawa TSI Product (VM-7B) Model-(FW-202FL-40)	Nos	1	1					
1116	02-1027-0591	Shinkawa TSI Product (VM-7B) Model-(FL-202F08L-M2-00-03-10)	Nos	1	1					
1117	02-1027-0592	Shinkawa TSI Product (VM-7B) Model-(CV-861(M10*1)	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1118	02-1027-0593	Shinkawa TSI Product (VM-7B) Model-(CW-050E-EF-Y0-0)	Nos	1	1					
1119	02-1027-0594	Shinkawa TSI Product (VM-7B) Model-(FL-143F27L-M1-00-05-50	Nos	1	1					
1120	02-1027-0595	Shinkawa TSI Product (VM-7B) Model-(FL-143F28L-M1-00-00-50	Nos	1	1					
1121	02-1027-0596	Shinkawa TSI Product (VM-7B) Model-(FK-143F1-1)	Nos	1	1					
1122	02-1027-0597	Shinkawa TSI Product (VM-7B) Model-(LS-050CU)	Nos	1	1					
1123	02-1027-0598	Shinkawa TSI Product (VM-7B) Model-(LW-005B-S-0)	Nos	1	1					
1124	02-1027-0599	Shinkawa TSI Product (VM-7B) Model-(VM-21P2-21S0502-1)	Nos	1	1					
1125	02-1027-0600	Phase Marker & Local Communicstion Modeule:VM-741B1/TB1	Nos	1	1					
1126	02-1027-0601	Network Communication Module Model-VM-742B1-1	Nos	1	1					
1127	02-1027-0602	redundant Power Supply Unit Module:-VM-751B2	Nos	1	1					
1128	02-1027-0603	Hydromotor Actuator ASSY CTR EL-hyd h35 W/SD XFMR Part#4	Set	8	8					
1129	02-1027-0604	Electro Hydraulic Oil Power Unit 110 VC T1001/2001 Part#11-004	Nos	7	7					
1130	02-1027-0605	Pressure Switch H31/35 Part#11-015	Nos	12	12					
1131	02-1027-0606	IgnitorPusherActuatorWithSolenoidValve limit Switch (XTQ-2-300	Set	20	20					
1132	02-1027-0607	Megnetic Float Level Gauge Transmitter HPH (UHZ-519(0~1200m	Set	3	3					
1133	02-1027-0608	Magnetic Float level Guage TRansmitter Steam Cooler(UHZ-519(0-	Set	2	2					
1134	02-1027-0609	Float for MagneticFloatLevelGuageTransmitterFor HP heater(UHz5	Nos	6	6					
1135	02-1027-0610	Float for MagneticFloatLevelGuageTransmitterForSteamCooler(HZ	Nos	2	2					
1136	02-1027-0611	BurnerFlameDetectionSystemCompleteHSD Gas&NFO FUEL(ZHJ	Set	16	16					
1137	02-1027-0612	SupplyLayingTerminating & ConnectingThe07CoreShieldedCabl(1	Meter	4,000	4,000					
1138	02-1027-0613	Thermocouple hp turbine casing Inner/Intermediate Tempreture 0.7	Nos	2	2					
1139	02-1027-0614	Thermocouple MSV(1) casing Inner/Intermediate Tempreture 0.76&	Nos	1	1					
1140	03-1005-094	Non Return Valve (Used)	Nos	1	1					
1141	03-1005-096	Pump With Foundation (Used)	Nos	1	1					
1142	03-1005-0126	Curtain 5/7' Book - 1	Nos	14	14					
1143	03-1005-0128	Curtain 3'.5 x 7'.4 Book - 1	Nos	12	12					
1144	03-1005-0230	C.P Shower Book - 2	Nos	26	26					
1145	03-1005-0141	TOWEL RAIL **(B-01-7540)**	Nos	149	149					
1146	03-1005-0262	Office Table (Size-5x3) 11-9735	Nos	2	2					
1147	03-1005-0263	Office Chair (Wooden)Paly Ship Arms 12-11412	Nos	4	4					
1148	03-1005-0274	Computer Printer Table With 2 Sleave(Trolly) 11-9743	Nos	3 Old	3 Old					
1149	03-1005-0303	Rubber Hands Gloves 08-10722	Pair	10	10					

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AUDIT ASSTT:/STOCK VERIFIER .

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1150	03-1005-0427	Face Sheild for Acid & Graindering ETC. **(03-35832)**	Nos	40	40					
1151	03-1005-0443	Writing Desk (Double Dermge) **(03-35848)**	Nos.	9 Old	9 Old					
1152	03-1005-0444	Refrigerator (Old) 11-9787	Nos.	4	4					
1153	03-1005-0445	Dinning Chair (Hard) **(03-35850)**	Nos.	17	17					
1154	03-1005-0451	Dining Table With Chip Board Formica Wooden **(03-35856)**	Nos.	1	1					
1155	03-1005-0452	Bed Side Table **(03-35857)**	Nos.	18	18					
1156	03-1005-0454	Wardrobe (Two Door) **(03-35859)**	Nos.	4	4					
1157	03-1005-0495	Levelling Staf (Almunium Folding) 5 Meter (03-35902)	Nos	1	1					
1158	03-1005-0563	Coffe Table **(03-35980)**	Nos	3 Old	3 Old					
1159	03-1005-0564	Wooden Almirah With Glass (Broken Glass) B-3	Nos	1	1					
1160	03-1005-0566	Table Cum Stool Off:Size **(03-35989)**	Nos	2	2					
1161	03-1005-0701	Khahira With Handle (TEKAM) **(05-27477)**	Nos	5	5					
1162	03-1005-0758	Gate Valve 4" **(05-27571)**	Nos	5	5					
1163	03-1005-0845	Ear Protector **(06-6299)**	Nos	454	454					
1164	03-1008-0001	Sodium Hexamata phosphate (5-9117)	M.Ton	3,500	3,500					
1165	03-1008-0004	Stanus Chloride	Kg	19	19					
1166	03-1008-0005	Sodiumchloried (4-1176)	Kgs.	34.75	34.75					
1167	03-1008-0008	HydroCholoric Acid	M.T	1	1					
1168	03-1008-0009	Caustic Soda Liquied 50%	M.T	0	0					
1169	03-1008-0010	Sulphuric Acid	Ltr	150	150					
1170	03-1008-0013	Potassium Iodide	Kg	22	22					
1171	03-1008-0016	Er ichome Block-T	grm	600	600					
1172	03-1008-0017	Methylene Ble Indicator	grm	250	250					
1173	03-1008-0018	Sodium Sulphite	Kg	40	40					
1174	03-1008-0021	Tungston Bulb 6.3 x 5A	Nos	6	6					
1175	03-1008-0022	Hydrazine Hydrate (5-9125)	Kgs	2,200	2,200					
1176	03-1008-0028	Plastic Cylinder 100 ml	Nos	27	27					
1177	03-1008-0030	Mercuric Iodide (BDH)	Kg	1	1					
1178	03-1008-0042	Amonia Acitate	Kg	13	13					
1179	03-1008-0043	Beaker Glass 2000 ml.	Nos	7	7					
1180	03-1008-0045	Pipe He Sucker (Pippet Filler)	Nos	12	12					
1181	03-1008-0049	Mortar with pestle 25 m	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1182	03-1008-0051	Acetone 98% (Merck)	Ltr	11	11					
1183	03-1008-0052	Ascorbic Acid	Kgs	51	51					
1184	03-1008-0053	Citric Acid	Kg	53	53					
1185	03-1008-0055	Beaker P lastic 1000 ml.	Nos	3	3					
1186	03-1008-0056	Conical Flask 250ml	Nos	2	2					
1187	03-1008-0057	Volumatic Flask 2000 ml.	Nos	42	42					
1188	03-1008-0058	Volumatic Flask 1000 ml.	Nos	50	50					
1189	03-1008-0059	Pipett 1 ml.	Nos	57	57					
1190	03-1008-0060	Pipett 2 ml.	Nos	20	20					
1191	03-1008-0061	Pipett 5 ml.	Nos	20	20					
1192	03-1008-0063	Colored Bottle 250 ml.	Nos	45	45					
1193	03-1008-0064	Colored Bottle 1000 ml.	Nos	46	46					
1194	03-1008-0071	Sodium Nitrite (NaNo2)	Kgs	75	75					
1195	03-1008-0072	Volumatic Flask 1000 ml.	Nos	45	45					
1196	03-1008-0073	Volumatic Flask 50 ml.	Nos	50	50					
1197	03-1008-0074	Pippete Stand	Nos	18	18					
1198	03-1008-0079	Copper Oxide.	grm	200	200					
1199	03-1008-0086	Magnesium per Chloride	grm	400	400					
1200	03-1008-0088	Hydrometer 1.00-1.20	Nos	7	7					
1201	03-1008-0089	Hyderometer China A.Grade 1.1-1.2	Nos	30	30					
1202	03-1008-0095	Resin Coloumn	Nos	18	18					
1203	03-1008-0096	Caustic Soda Flacks (6-10898) (20000 Kg)	M.t	20	20					
1204	03-1008-0099	W-I-Lamp 062-2505	Nos	48	48					
1205	03-1008-0101	Boromothyl Blue	grm	25	25					
1206	03-1008-0104	pipete 20 ml	Nos	83	83					
1207	03-1008-0106	Sodium Thio sulphite (2.5 Kg)	Kg	3	3					
1208	03-1008-0108	Sodium meta Ansmite	grm	500	500					
1209	03-1008-0110	Aceetic Acid	Ltr	10	10					
1210	03-1008-0112	Carboly Drozide	grm	100	100					
1211	03-1008-0113	Indigo Carmine	grm	475	475					
1212	03-1008-0114	Ferous Amonia Sulphate	Kg	1	1					
1213	03-1008-0118	Dextrose AR	Nos	2	2					

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1214	03-1008-0119	Bor ic Acid	Nos	1	1					
1215	03-1008-0120	Funnel 100 ml	Nos	6	6					
1216	03-1008-0121	Re-Agent Bottle	Nos	20	20					
1217	03-1008-0122	^Test Tube 18*150	Nos	14	14					
1218	03-1008-0123	Isoprople Alcohol. (22.5 Ltr)	Ltr	23	23					
1219	03-1008-0124	N-Hexyl Alcohol (2.5)	Ltr	3	3					
1220	03-1008-0125	Reagent Bottle 500 ml	Nos	12	12					
1221	03-1008-0130	Bremost green	grm	155	155					
1222	03-1008-0132	Cramic Oxide	Kg	4	4					
1223	03-1008-0133	Flate Bottle Flash 500 ml	Nos	12	12					
1224	03-1008-0134	Glucase Aylyan	Kg	2	2					
1225	03-1008-0137	Hydrogen Peroxide (Merck)	Litters	4	4					
1226	03-1008-0138	Measring cylinder	Nos	10	10					
1227	03-1008-0140	Barrium cloride	Kg	6	6					
1228	03-1008-0142	Color Bottle with mouth 500 ml	Nos	60	60					
1229	03-1008-0143	Electric water Bath	Nos	4	4					
1230	03-1008-0144	Pottasium Iodate	Kg	7	7					
1231	03-1008-0147	Metolo proform	Kg	5	5					
1232	03-1008-0149	Sodium perchloride	Kg	1	1					
1233	03-1008-0155	PH Electrod	Nos	15	15					
1234	03-1008-0156	Conductivity Electrod	Nos	12	12					
1235	03-1008-0172	Sulphuric Acid 4- Anion	grm	1,675	1,675					
1236	03-1008-0174	Strach	kg	2	2					
1237	03-1008-0179	Tartaric Acid	kg	3	3					
1238	03-1008-0181	Potassium Chloride	kg	11	11					
1239	03-1008-0184	Glucose Movo Hydrate	kg	2	2					
1240	03-1008-0185	Ammonium Oxaite	kg	5	5					
1241	03-1008-0186	Sodium Mereeprodate	Grams	750	750					
1242	03-1008-0188	Broma phenal Blue	Grams	25	25					
1243	03-1008-0191	Bath ophenathalic	Grams	5	5					
1244	03-1008-0193	Formic Acid	Ltr.	75	75					
1245	03-1008-0194	Phosphuric Acid 2.5 Liter	Ltr	5	5					

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1246	03-1008-0195	Phenan Thratin Mono Hydrate	Grams	10	10					
1247	03-1008-0196	Methyle Red Indicator	Grams	200	200					
1248	03-1008-0197	1-5 Difirm Carboize	Grams	100	100					
1249	03-1008-0199	Hydro Ammonium Chloride	kg	3	3					
1250	03-1008-0200	Benzorie Acid	kg	1	1					
1251	03-1008-0201	Sodium Thi-Sulphate-penta hydrate	kg	5	5					
1252	03-1008-0202	Hexame Extrapure	ltr	10	10					
1253	03-1008-0203	Sodium Carbonate	lit	5	5					
1254	03-1008-0206	Sodium Acetate	kg	5	5					
1255	03-1008-0211	Lithium Bromide	Kg	60	60					
1256	03-1008-0214	1-5 Diphery corbonhyrzine	grm	100	100					
1257	03-1008-0215	Phasphate Acid (2.5 Ltr)	Ltr	3	3					
1258	03-1008-0218	Cylinder 250 ml	Nos	20	20					
1259	03-1008-0226	Cell QZT 20mm	Nos	40	40					
1260	03-1008-0227	Cell QTZ ,100m	Nos	13	13					
1261	03-1008-0228	Cylinder pyrex 250 ml	Nos	5	5					
1262	03-1008-0229	Potasium Diacloromats	Kgs	2	2					
1263	03-1008-0231	O-Tovin	Grams	10	10					
1264	03-1008-0232	Air Compressor DM-2A , WM-2A	Nos	1	1					
1265	03-1008-0234	Frezon Point Tester	Nos	1	1					
1266	03-1008-0247	Hydermeter 070-075	Nos	15	15					
1267	03-1008-0248	Hydermeter 070-080	Nos	15	15					
1268	03-1008-0249	Hydermeter 050-085	Nos	13	13					
1269	03-1008-0250	Hydermeter 085-090	Nos	9	9					
1270	03-1008-0253	Range Diff. 0.7-0.8	Set	1	1					
1271	03-1008-0262	Combustion Tube	Nos	5	5					
1272	03-1008-0263	Absrobtion Tube	Nos	7	7					
1273	03-1008-0264	Levring Bottle	Nos	7	7					
1274	03-1008-0274	Rescue Meter CR-100	Nos	3	3					
1275	03-1008-0275	PH Electrode GST 5211	Nos	5	5					
1276	03-1008-0279	Strong Anion Resion Mp 500 (M-600)	Ltr	1,125	1,125					
1277	03-1008-0281	Sodium Borade	Kg	1	1					

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1278	03-1008-0282	Nitrobenzone (Packing 2.5Lit)	Lit.	8	8					
1279	03-1008-0283	Mercuric Nitrate	grm	200	200					
1280	03-1008-0289	Measring Pippet 20 ml.	Nos	40	40					
1281	03-1008-0290	Measring Pippet 50 ml.	Nos	13	13					
1282	03-1008-0326	Sodium bi Corbonete	Kg	3	3					
1283	03-1008-0327	Solphoric Acid 2.5 litter Per botle	Bottle	2	2					
1284	03-1008-0328	Reflux tube 10 ml	Nos	2	2					
1285	03-1008-0329	Reflux tube 25 ml	Nos	4	4					
1286	03-1008-0333	Strang Catine resin Manoplus S-108/100	Ltrs	1,675	1,675					
1287	03-1008-0354	Mercury Thermometer (ZEAC) 110 C	Nos	6	6					
1288	03-1008-0360	Cylinder 500 ml	Nos	2	2					
1289	03-1008-0364	Condinser 24/29 (Dean Star Eqpt:)	Nos	1	1					
1290	03-1008-0397	Aromhib-28 Appearance 25CoBrown Liquied	Kgs	200	200					
1291	03-1008-0398	Potassium Chloride Elect.Cortage for HACH PH MeterCot#25469-2	Nos	10	10					
1292	03-1008-0399	Glass Cell One Inch Square for Hach Specctormeter	Nos	6	6					
1293	03-1008-0511	Aqualine Complete - 5	Bottle	1	1					
1294	03-1008-0522	Iron Tablet	Nos	2	2					
1295	03-1008-0523	Copper 1&2 Tablet	Nos	1	1					
1296	03-1008-0558	Multi Stage Helium Gas Regulator With Pressure Gauge	Nos	1	1					
1297	03-1015-0001	Rain Coats	Nos	2	2					
1298	03-1015-0005	Shoes Medium size-8	Pairs	51	51					
1299	03-1015-0044	Acid Proof Aprons	Nos	1	1					
1300	03-1015-0045	Aprons Regine	Nos	2	2					
1301	03-1015-0046	Aprons Paradute	Nos	1	1					
1302	03-1015-0047	First Aud Box	Nos	6	6					
1303	03-1015-0048	Electric Rubber hand Gloves Tested 11000&5000 Volts	Pairs	9	9					
1304	1025-0028	Resistance Heated Box Type:Oven 2-5-12	Nos	1	1					
1305	1025-0029	Draugh Drying Cabinate Type :603-3	Nos	2	2					
1306	1025-0030	Gas Liquid	Set	1	1					
1307	1025-0070	PhotoCopier Machine Plain	Nos	1	1					
1308	1025-0129	Black Berry Model:RDB71LLW IMEI:449333	Nos	1	1					
1309	1025-0157	MicroSoft Window 8	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1310	1025-0131	Laptop	Nos	1	1					
1311	1029-001	Industrial Balance TG-71	Nos	2	2					
1312	1029-002	Specto Photometer	Nos	1	1					
1313	1029-003	Elementary Analyzer TQ-3	Nos	1	1					
1314	1029-004	Computrized Calorimeter (MCT-B-2)	Nos	5	5					
1315	1029-005	Micro Calorimeter (WK-2)	Nos	1	1					
1316	1029-006	Bon-Type Resistance Furnace Sx5-12	Nos	2	2					
1317	1029-007	Vaccum Pump 2.2.05	Nos	1	1					
1318	1029-008	Thermostick Water Bath (HH-S-11-6)	Nos	1	1					
1319	1029-009	Water Bath (Bs-20)	Nos	1	1					
1320	1029-010	Burrett Stand Plastic	Nos	2	2					
1321	1029-011	Precision Balance (MS-50)	Nos	1	1					
1322	1029-012	Flash Point Tester (102)	Nos	1	1					
1323	1029-013	Conrodsen Carbon Residual appatus Syp-1011	Nos	1	1					
1324	1029-014	Water Constant Measuring Appratus	Nos	1	1					
1325	1029-015	Analytical Balance (TG-328)	Nos	1	1					
1326	1029-016	Engiler Visconeter	Nos	1	1					
1327	1029-018	Opern Cap Flash Point Tester (OUS-1931)	Nos	1	1					
1328	1029-020	Autobomb Calimeter	Nos	1	1					
1329	1029-021	Bomb Contified	Nos	1	1					
1330	1029-023	Acid Injection Pump With Motor 150/min	Nos	6	6					
1331	1021-001	ALUMINUM ALLY CONDENSER TUBE	NO	3598	3598					
1332	1021-002	BOILER TUBE	NO	210	210					
1333	1021-003	GULF TUBE OIL	LBS	1600	1600					
1334	1021-004	TURBINE OIL T68	LTR	630	630					
1335	1021-005	GULF HORMONY OIL 68	LTR	208	208					
1336	1021-009	M.S FLANG 4.5"	NO	1	1					
1337	1021-011	M.S FLOAT WEIGHT	NO	8	8					
1338	1021-013	M.S FLANGE 7"	NO	3	3					
1339	1021-016	M.S FLANGE 6"	NO	3	3					
1340	1021-017	MS FLANGE 6	NO	4	4					
1341	1021-018	M.S FLANGE 3/4"	NO	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1342	1021-019	M.S NECK FLANGE 10" - I.D	NO	3	3					
1343	1021-020	M.S FLANGE 6"	NO	1	1					
1344	1021-021	M.S Flange 1.5"	NO	1	1					
1345	1021-024	C.I REAIS 2 1/2 x 1/2"	NO	10	10					
1346	1021-025	G.I BEND 2"	NO	6	6					
1347	1021-026	M.S BEND WITH FLANGE 40mm	NO	2	2					
1348	1021-027	G.I TEE 2"	NO	9	9					
1349	1201-029	M.S FLANGE 8"	NO	6	6					
1350	1021-030	M.S FLANGE S/TYPE	NO	1	1					
1351	1021-031	M.S NECK FLANGE 9" - I.D	NO	3	3					
1352	1021-033	M.S FLANGE 2"X3/4"	NO	1	1					
1353	1021-034	ELECTRIC OIL PUMP WITH MOTER	SET	1	1					
1354	1021-035	OFF TUBE COIL	NO	12	12					
1355	1021-036	BRASS TUBE U SHAPE	NO	112	112					
1356	1021-037	BRASS TUBE 1/2" LENTH 63"	NO	309	309					
1357	1021-038	OFF TUBE COIL	NO	36	36					
1358	1021-039	E.D.T.A SALT	KG	14	14					
1359	1021-040	Megnisum Sulphate	KG	2	2					
1360	1021-042	POTASSIUM NITRATE	GRM	800	800					
1361	1021-043	SODUIM meta arsenite GR	GRM	400	400					
1362	1021-044	Chloroform	LIT	2	2					
1363	1021-045	Isomyle Alcohal	ltr	2.5	2.5					
1364	1021-046	Chlorometer Colour Disc	NO	1	1					
1365	1021-047	CORK BORER	NO	2	2					
1366	1021-048	DESICATER	NO	1	1					
1367	1021-049	Iindigo Crmime	Grm	75	75					
1368	1021-050	CHROM (VI) OXIDE	Kg	1	1					
1369	1021-051	SODUIM SULPHATE	KG	3.3	3.3					
1370	1021-052	HYDROGEN PER OXIDE	Ltr	1	1					
1371	1021-053	SODIUM ACCETATE	Kg	1	1					
1372	1021-054	SODIUM SULPHITE	Grams	400	400					
1373	1021-055	BEAKER	NO	5	5					

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1374	1021-056	P.H METER	NO	1	1					
1375	1021-057	HYGEROMETER	NO	1	1					
1376	1021-058	HYDEROMETER	NO	11	11					
1377	1021-059	Weight Box Incomplete	NO	1	1					
1378	1021-060	Digital Thermometer	NO	1	1					
1379	1021-061	TEST TUBE STAND	NO	1	1					
1380	1021-062	Separating Funnal	SET	13	13					
1381	1021-063	CHLORO METER	NO	1	1					
1382	1021-064	Chlorimeter (Advance Gas chlorimeter)	NO	1	1					
1383	1021-065	P.V.C Ball Valve 1/2"	NO	1	1					
1384	1021-066	P.V.C UNION 1/2"H.D	NO	3	3					
1385	1021-067	PVC UNION 1"	NO	2	2					
1386	1021-068	Digital Weighting Balance	NO	1	1					
1387	1021-069	MAGNAIC slerrer HOT PLATE	NO	1	1					
1388	1021-070	Conducivity METER	NO	1	1					
1389	1021-071	SYNTHETIC RUBBER SHEET	NO	4	4					
1390	1021-072	P.V.C SOCKET 2"	NO	15	15					
1391	1021-073	P.V.C NIPPLE 2"	NO	8	8					
1392	1021-074	P.V.C Elbow 2"	NO	9	9					
1393	1021-075	Brass Socket	NO	13	13					
1394	1021-076	Brass MALE/FEMALE ASSORTED	NO	6	6					
1395	1021-077	NOZZle FIRE FIGHTINg ASSoRTED	NO	15	15					
1396	1021-078	RUBBER DIAPHRAM 50mm	NO	100	100					
1397	1021-079	RUBBER DIAPHRAM 40mm	NO	21	21					
1398	1021-080	C.I VALVE SET 4"	NO	18	18					
1399	1021-081	C.I VALVE SET 3"	NO	12	12					
1400	1021-082	HALLAGE COLOR COMPOUND	NO	1	1					
1401	1021-083	GAS MASK	NO	1	1					
1402	1021-084	BURETT IRON STAND	NO	5	5					
1403	1021-085	AGITATER SHAFT	NO	1	1					
1404	1021-086	WOODEN STAND	NO	1	1					
1405	1021-087	RUBBER DIAPhragem 3" X 3"	NO	62	62					

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1	2	3	4	5	6	7	8	10	11	12
1406	1021-090	RUBBER DIAPHRAM 3" X 3"	NO	68	68					
1407	1021-091	M.S FLANGE 1'' Dia	NO	1	1					
1408	1021-092	G.I ELBOW 2"	NO	3	3					
1409	1021-097	TOWER BOLT 4"	NO	50	50					
1410	1021-098	WOODEN SCREW 3/4"	Pkt	4	4					
1411	1021-099	C.P TOWER BOLT 6"	NO	2	2					
1412	1021-104	G.I TEE 3/4"	NO	56	56					
1413	1021-105	G.I PLUG 2"	NO	2	2					
1414	1021-112	HINGES 2"	NO	71	71					
1415	1021-114	GI BAND 1/2"	NO	3	3					
1416	1021-115	WOODEN SCREW 1/2"	Pkt	15	15					
1417	1021-116	RUBBER WASHER 1/2"	NO	41	41					
1418	1021-120	C.P TOWER BOLT 3"	NO	37	37					
1419	1021-126	GAS CONTROL VALVE 1/2"	NO	22	22					
1420	1021-128	SOLDRING STRICK	LBS	14.5	14.5					
1421	1021-129	G.I SOCKET 1.5"	NO	2	2					
1422	1021-130	G.I SOCKET 1 1/4"	NO	2	2					
1423	1021-133	FLOW TRAP	NO	16	16					
1424	1021-139	P.V.C BEND 2"	NO	36	36					
1425	1021-140	P.V.C SOCKET 1 1/2"	NO	228	228					
1426	1021-141	P.V.C SOCKET 2"	NO	171	171					
1427	1021-142	SCREEN SHEET 6 X 4	SHET	4	4					
1428	1021-143	G.I WASHER 2 1/2" X 2"X 1/4"	KG	114	114					
1429	1021-144	G.I NUT BOLT 9 X 1/2"	KG	56.5	56.5					
1430	1021-146	POLE CLAMP	NO	82	82					
1431	1021-147	M.S CLAMP ASSORTED	NO	114	114					
1432	1021-148	ROBIALAC EPILAX 5 BA LARGE	TIN	8	8					
1433	1021-149	ROBIALAC EPILAX 5 BA MEDIUM	TIN	4	4					
1434	1021-152	G.I NUT BOLT 9" X 5/8"	KG	7	7					
1435	1021-153	G.I BREAKET FOR CORNER	NO	560	560					
1436	1021-154	TWIST STEEL NAILS	KG	17	17					
1437	1021-155	G.I NUT BOLT 6' 'X 1''	KG	30	30					

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1	2	3	4	5	6	7	8	10	11	12
1438	1021-156	C.I Bracket For Sheet	KG	20	20					
1439	1021-157	PLASTIC BREAKET	NO	4	4					
1440	1021-158	G.I NUT BOLT 14'' X 3/4''	NO	86	86					
1441	1021-159	G.I NUT BOLT 12'' X 3/4''	NO	100	100					
1442	1021-160	G.I NUT BOLT 10'' X 3/4''	NO	80	80					
1443	1021-162	G.I BOLT 8'' X 1''	NO	43	43					
1444	1021-163	M.S NUT BOLT 2'' X 7/8''	NO	160	160					
1445	1021-165	STUD 5'' X 3/4'' WITH 2 NUT	NO	55	55					
1446	1021-166	STUD 6'' X 1/2'' WITH 2 NUT	NO	12	12					
1447	1021-167	Electric Moter With Pump 50 Hp 110Kw	NO	1	1					
1448	1021-168	8'' AUTOMATIC ISOLTING VALVE	NO	1	1					
1449	1021-169	NON RETRUN VALVE 6''	NO	1	1					
1450	1021-170	MOTER WITH FOUNDATION 57Kw 400v	NO	1	1					
1451	1021-200	POTASUM CHLONDE	Grams	500	500					
1452	1021-201	Check Nut Plastic 54mm	Nos	20	20					
1453	1021-202	Check Nut G.I 4.mm	Nos	15	15					
1454	1021-203	G.I Socket 70 mm	Nos	5	5					
1455	1021-204	G.I Socket 40 mm	Nos	10	10					
1456	1021-205	G.I Socket 45 mm	Nos	3	3					
1457	1021-206	G.I Socket 28 mm	Nos	23	23					
1458	1021-207	Key Large Size	Nos	3	3					
1459	1021-208	Key Smal Size	Nos	1	1					
1460	1021-209	Cooper Ms Bar	Nos	3	3					
1461	1021-211	Pipe Clamp (Joint Clamp)	Nos	4	4					
1462	1021-212	Peinturo Laque ascehage Repide (5Kg)	Tin	2	2					
1463	1021-213	EPOX anerete Epoxy posin	Kg	1	1					
1464	1021-214	Iron Saddle 1"	Nos	150	150					
1465	1021-215	Check Nut G.I 4.mm	Nos	32	32					
1466	1021-216	Hose Clamp 25mm	Nos	3	3					
1467	1021-218	G.I Socket 85mm	Nos	5	5					
1468	1021-219	G.I Socket 30mm	Nos	35	35					
1469	1021-220	G.I Socket 45mm	Nos	34	34					

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1470	1021-221	G.I Socket 55mm	Nos	16	16					
1471	1021-222	R Socket 30x20mm	Nos	78	78					
1472	1021-224	G.I Nipple 25mm	Nos	60	60					
1473	1021-225	PRC Elbow 75mm	Nos	7	7					
1474	1021-226	Plug 25mm	Nos	8	8					
1475	1021-227	Plug 20mm	Nos	8	8					
1476	1021-228	Cap 15mm	Nos	5	5					
1477	1021-229	Cap 20mm	Nos	4	4					
1478	1021-230	Cap 30mm	Nos	2	2					
1479	1021-231	Cap 35mm	Nos	3	3					
1480	1021-232	Coupling 35mm	Nos	9	9					
1481	1021-233	Coupling 25mm	Nos	4	4					
1482	1021-234	Plug 35mm	Nos	7	7					
1483	1021-235	Cap 40mm	Nos	1	1					
1484	1021-236	Cap 30mm	Nos	2	2					
1485	1021-237	Casle Lugs 325-14	Kg	5	5					
1486	1021-238	Crown Disk 15-A	Nos	2	2					
1487	1021-239	Cap 60mm	Nos	5	5					
1488	1021-240	Elbow 50mm (welding 45)	Nos	1	1					
1489	1021-241	Elbow 50mm (welding)	Nos	5	5					
1490	1021-242	G.I Elbow 45mm	Nos	1	1					
1491	1021-243	Welded Tea 25 mm	Nos	3	3					
1492	1021-244	Welded Tea 35x20mm	Nos	2	2					
1493	1021-245	Welded Tea 30x25mm	Nos	9	9					
1494	1021-246	Welded Tea 30x15mm	Nos	3	3					
1495	1021-247	Welded Tea 20mm	Nos	14	14					
1496	1021-248	Welded Tea 15mm	Nos	5	5					
1497	1021-249	G.I.Tea 15mm	Nos	18	18					
1498	1021-250	Half Coupling 30x25mm	Nos	13	13					
1499	1021-251	Half Coupling 20x10mm	Nos	10	10					
1500	1021-252	Full Coupling 60x30mm	Nos	4	4					
1501	1021-253	Full Coupling 30x15mm	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
1502	1021-254	Full Coupling 50x25mm	Nos	1	1					
1503	1021-255	Junction Box.4Voay	Nos	8	8					
1504	1021-256	Welded Tea 50x20mm	Nos	2	2					
1505	1021-257	Welded Tea 50x25mm	Nos	2	2					
1506	1021-258	Welded Tea 50x30mm	Nos	1	1					
1507	1021-259	Welded Tea 50x50mm	Nos	1	1					
1508	1021-260	Welded Tea 60x30mm	Nos	3	3					
1509	1021-261	Welded Tea 60x25mm	Nos	3	3					
1510	1021-262	Coupling Type Connetor 36mm	Nos	7	7					
1511	1021-263	Socket With Check Nut 90mm	Nos	1	1					
1512	1021-264	Socket With Check Nut 25mm	Nos	4	4					
1513	1021-265	Socket With Plug 45mm	Nos	1	1					
1514	1021-266	R/Tea 40x20mm	Nos	2	2					
1515	1021-267	Elbow 40x30mm	Nos	1	1					
1516	1021-268	Round Guage Glass 12mm	Nos	2	2					
1517	1021-270	Bend With Flange 40mm	Nos	2	2					
1518	1021-271	Lig Hing Fixture	Nos	3	3					
1519	1021-272	Special Beaker P.V.C	Nos	2	2					
1520	1021-273	Bolt Nut 25x75mm	Nos	18	18					
1521	1021-274	Nut 40mm	Nos	85	85					
1522	1021-275	Nut 35mm	Nos	60	60					
1523	1021-277	Hinges 140mm	Nos	1	1					
1524	1021-278	Hinges 100mm	Nos	4	4					
1525	1021-279	Waher 60x35mm	Nos	40	40					
1526	1021-280	Waher 100x100mm	Nos	15	15					
1527	1021-281	Coupling 20x10mm	Nos	8	8					
1528	1021-282	D460 Access Door	Nos	30	30					
1529	1021-283	Angle Piece 40x340mm	Nos	18	18					
1530	1021-284	Angle Piece 50x200mm	Nos	50	50					
1531	1021-285	Angle Piece 50x190mm	Nos	24	24					
1532	1021-286	Flate Ship Oiece 65x250mm	Nos	12	12					
1533	1021-287	Carner Paeking 40x130	Nos	45	45					

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1	2	3	4	5	6	7	8	10	11	12
1534	1021-288	Washer 4 Hole 140x140mm	Nos	12	12					
1535	1021-289	M.S Plate 50x150x15mm	Nos	1	1					
1536	1021-291	M.S Plate 50x150x8mm	Nos	9	9					
1537	1021-293	Temperary Breclog 25x100mm	Nos	24	24					
1538	1021-294	M.S Angle Piese 60x100mm	Nos	2	2					
1539	1021-295	M.S Liner 160m x1mm	Nos	8	8					
1540	1021-296	M.S Liner 160x4m	Nos	4	4					
1541	1021-297	M.S Plate	Nos	2	2					
1542	1021-298	M.S Plate	Nos	2	2					
1543	1021-299	M.S Band Plate With Two Hole 135x150mm	Nos	32	32					
1544	1021-300	M.S Band Plate With Two Hole 130x160mm	Nos	10	10					
1545	1021-301	M.S Band Plate With Two Hole Tape 150x250mm	Nos	10	10					
1546	1021-302	M.S Plate 6 Hole 170x230x5mm	Nos	2	2					
1547	1021-303	M.S Plate 6 Hole 170x230x10mm	Nos	3	3					
1548	1021-304	Pipe Claimp 165mm	Nos	2	2					
1549	1021-305	Round Clamp 100mm	Nos	40	40					
1550	1021-306	G.I Bend 30mm	Nos	6	6					
1551	1021-307	Bolt 20x160mm	Nos	5	5					
1552	1021-308	M.S Union 15mm	Nos	3	3					
1553	1021-309	M.S Bolt 20x170mm	Nos	2	2					
1554	1021-310	Clamp	Nos	5	5					
1555	1021-311	Bolt T.L M-20	Nos	3	3					
1556	1021-312	Bolt T-L-M-16	Nos	2	2					
1557	1021-313	Bolt T.L-M-12	Nos	2	2					
1558	1021-314	Ancher Bolt 13x400mm	Nos	3	3					
1559	1021-315	Clamp	Nos	3	3					
1560	1021-316	S.S Clamp	Nos	7	7					
1561	1021-317	Fiber Plate 100x200mm	Nos	6	6					
1562	1021-318	S.S Strip Large	Nos	4	4					
1563	1021-319	S.S Strip Small	Nos	4	4					
1564	1021-320	Fiber Plate 30x200mm	Nos	4	4					
1565	1021-321	S.S Plate 180x180mm	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
1566	1021-322	M.S Plate 150x150mm	Nos	5	5					
1567	1021-323	M.S Plate 90x90	Nos	3	3					
1568	1021-324	M.S Flange 130mm	Nos	3	3					
1569	1021-325	Chammcal Length 180mm	Nos	10	10					
1570	1021-326	Chammcal Length 175mm	Nos	4	4					
1571	1021-327	Asbestar Rope1/2	Roll	6	6					
1572	1021-328	Nylon Strep Width 40mm	Nos	15	15					
1573	1021-329	Nylon Strip Width 60mm	Nos	10	10					
1574	1021-330	M.S Pin	Nos	4	4					
1575	1021-331	Tee 15mm	Nos	4	4					
1576	1021-332	Tee 20mm	Nos	3	3					
1577	1021-333	S.S Rod With Fitting	Nos	6	6					
1578	1021-334	Sperting Clamp Large	Nos	9	9					
1579	1021-335	Sperting Clamp Small	Nos	8	8					
1580	1021-336	Sperting Clamp With Bolt	Nos	8	8					
1581	1021-337	Sporting Plate	Nos	12	12					
1582	1021-338	Sporting Plate	Nos	10	10					
1583	1021-339	Sporting Strips	Nos	20	20					
1584	1021-340	Sporting Plate	Nos	4	4					
1585	1021-341	Sporting Plate	Nos	20	20					
1586	1021-342	Sporting Plate	Nos	20	20					
1587	1021-343	M.S Bar 30x100mm	Nos	8	8					
1588	1021-344	Wealding Rod T.G.S 5-24mm	Kgs	2	2					
1589	1021-345	Wealding Rod T.G.S 20-2.4mm	Kgs	2	2					
1590	1021-346	Long For Flant	Nos	1	1					
1591	1021-347	Capp Bar 40x400mm	Nos	1	1					
1592	1021-348	Par Celain Clamp	Nos	2	2					
1593	1021-349	P.V.C Bush 80mm	Nos	38	38					
1594	1021-350	Bell Mighty Air Trap AE-8-9	Nos	1	1					
1595	1021-351	M.S Washer 10x65x90mm	Nos	17	17					
1596	1021-352	Elbow 45 35-mm	Nos	36	36					
1597	1021-353	Elbow 45 25-mm	Nos	12	12					

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1	2	3	4	5	6	7	8	10	11	12
1598	1021-354	Elbow 45 20-mm	Nos	12	12					
1599	1021-355	Elbow 90 35-mm	Nos	23	23					
1600	1021-356	Elbow 90 20-mm	Nos	35	35					
1601	1021-357	Flling Fitting	Nos	6	6					
1602	1021-358	Flling Fitting(S.S.Nippli)	Nos	14	14					
1603	1021-359	Fllaing Fitting With Nut	Nos	13	13					
1604	1021-360	Nut & Bolt 15x45mm	Nos	60	60					
1605	1021-361	M.S Plate 50x150x2mm	Nos	80	80					
1606	1021-362	M.S Plate 50x150x4mm	Nos	35	35					
1607	1021-363	Corner 40x100mm	Nos	85	85					
1608	1021-364	Corner 50x50mm	Nos	20	20					
1609	1021-365	Bolt Nut With Washer 15x70mm	Nos	44	44					
1610	1021-366	Copper Pin	Kgs	8	8					
1611	1021-367	Gland Packing 12mm/14mm	Nos	8	8					
1612	1021-368	Rubbr Washer	Nos	100,000	100,000					
1613	1021-369	Hook	Kgs	30	30					
1614	1021-370	Stael 85x5mm	Nos	98	98					
1615	1021-371	G.I Pin 90x10mm	Nos	100	100					
1616	1021-373	G.I Washer	Nos	2,500	2,500					
1617	1021-374	G.I.Washer	Nos	200	200					
1618	1021-376	Nut With Washer	Nos	4,000	4,000					
1619	1021-377	Serew	Kgs	10	10					
1620	1021-378	Pipe Clamp	Set	4	4					
1621	1021-379	Pipe Clamp	Nos	3	3					
1622	1021-381	Pipe Clamp	Nos	10	10					
1623	1021-382	Pipe Clamp	Nos	6	6					
1624	1021-383	Pipe Clamp	Nos	70	70					
1625	1021-384	Cross Elbow 1/2'	Nos	40	40					
1626	1021-385	Cross Elbow 3/4'	Nos	14	14					
1627	1021-386	Universal Elbow 40mm	Nos	10	10					
1628	1021-387	Universal Elbow 60mm	Nos	4	4					
1629	1021-388	Redocer Butt Weld 50x100mm	Nos	8	8					

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1	2	3	4	5	6	7	8	10	11	12
1630	1021-389	Redocer Butt Weld 65x100mm	Nos	3	3					
1631	1021-391	Redocer Butt Weld 50x75mm	Nos	5	5					
1632	1021-392	Redocer Butt Weld 40x100mm	Nos	1	1					
1633	1021-393	Redocer Butt Weld 35x50mm	Nos	2	2					
1634	1021-394	Redocer Butt Weld 35x80mm	Nos	8	8					
1635	1021-395	Redocer Butt Weld 40x60mm	Nos	2	2					
1636	1021-396	Redocer Butt Weld 50x65mm	Nos	1	1					
1637	1021-397	Redocer Butt Weld 40x80mm	Nos	1	1					
1638	1021-398	Redocer Butt Weld 55x85mm	Nos	1	1					
1639	1021-399	Redocer Butt Weld 65x100mm	Nos	1	1					
1640	1021-400	Redocer Butt Weld 50x65mm	Nos	1	1					
1641	1021-402	REDUCER BUTT WELD 40X85 mm	NO.	1	1					
1642	1021-403	REDUCER BUTT WELD 65X100 mm	NO.	1	1					
1643	1021-404	REDUCER BUTT WELD 65X130 mm	NO.	1	1					
1644	1021-405	REDUCER BUTT WELD 40X105 mm	NO.	1	1					
1645	1021-407	REDUCER BUTT WELD 125X170 mm	NO.	1	1					
1646	1021-408	REDUCER BUTT WELD 150X250 mm	NO.	1	1					
1647	1021-409	REDUCER BUTT WELD 200X250 mm	NO.	1	1					
1648	1021-410	REDUCER BUTT WELD 150X250 mm	NO.	1	1					
1649	1021-411	FUSE KV 12 75 AMP	NO.	3	3					
1650	1021-412	S.S ELBOW 45 degree SIZE 150 mm	NO.	4	4					
1651	1021-413	S.S PIPE COVER 150 mm	NO.	7	7					
1652	1021-414	SUPPORTING STRIP WITH BUSE	NO.	21	21					
1653	1021-415	S.S PIPE COVER	NO.	2	2					
1654	1021-416	FLANGE 20 mm DIA	NO.	1	1					
1655	1021-417	COUPLING SIZE 100 mm	NO.	2	2					
1656	1021-418	FLANGE 80 mm dia	NO.	1	1					
1657	1021-419	FLANGE 110 mm dia	NO.	1	1					
1658	1021-420	S.S FLANGE 60 mm dia	NO.	3	3					
1659	1021-421	S.S BLANK FLANGE 150 mm dia	NO.	1	1					
1660	1021-422	S.S BLANK FLANGE 280 mm dia	NO.	1	1					
1661	1021-424	S.S BLANK FLANGE 150 mm dia	NO.	5	5					

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1	2	3	4	5	6	7	8	10	11	12
1662	1021-426	S.S BLANK FLANGE 330 mm dia	NO.	1	1					
1663	1021-427	M.S BLANK FLANGE 95 mm dia	NO.	10	10					
1664	1021-428	M.S BLANK FLANGE 125 mm dia	NO.	7	7					
1665	1021-429	COUPLING BUSH 126 mm	NO.	3	3					
1666	1021-430	SILICON SEALENT 30 (TMBO)	NO.	500	500					
1667	1021-431	SILICON GLASS SCALANT	NO.	190	190					
1668	1021-432	TOSHIBA SILICON	NO.	4	4					
1669	1021-434	P.V.C STRIP FOR C.T	NO.	1000	1000					
1670	1021-435	NEW WIDE SEALER	NO.	85	85					
1671	1021-436	GREASE TAPE	NO.	150	150					
1672	1021-437	B850-118 Tray	NO.	2	2					
1673	1021-438	M.S BUSH	NO.	3	3					
1674	1021-439	RING	NO.	6	6					
1675	1021-440	FLANGE 180 mm dia	NO.	3	3					
1676	1021-441	COUPLING	NO.	3	3					
1677	1021-442	CHANNEL PIECES	NO.	6	6					
1678	1021-443	M.S JUNCTION BOX 4 NEY	NO.	5	5					
1679	1021-446	BROSS SEAL	NO.	24	24					
1680	1021-447	CAPPS TUBE INSTRUMENT	NO.	13	13					
1681	1021-448	WASHER (ASSORTED)	NO.	2	2					
1682	1021-449	INSTRUMENT NIPPLE	NO.	23	23					
1683	1021-450	SCREW ASSORTED	NO.	5	5					
1684	1021-452	G.I STUD 250 mm	NO.	30	30					
1685	1021-453	G.I STUD 120 mm	NO.	35	35					
1686	1021-454	WIRE STRIP	NO.	10	10					
1687	1021-455	NUT WITH BOLT 20X160	NO.	2	2					
1688	1021-456	COTTON TAP 4"	NO.	86	86					
1689	1021-457	GLAND PACKING 6 mm	NO.	2	2					
1690	1021-459	STRAINER LARGE	NO.	2	2					
1691	1021-460	KANSA EPEMARINE	NO.	5	5					
1692	1021-461	PLASTIC TAP	NO.	34	34					
1693	1021-462	HANDLE WITH PLATE	NO.	25	25					

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1	2	3	4	5	6	7	8	10	11	12
1694	1021-463	CLAMP, M-40	NO.	50	50					
1695	1021-465	PLASTIC SHEET	NO.	25	25					
1696	1021-466	CLAMP ALUMINION	NO.	129	129					
1697	1021-467	M.S ROD LENGTH 900 mm	NO.	23	23					
1698	1021-469	COVER LARGE	NO.	2	2					
1699	1021-470	COVER SMALL	NO.	2	2					
1700	1021-472	CLAMP 200A	NO.	7	7					
1701	1021-473	CLAMP	NO.	20	20					
1702	1021-474	NUT WITH BOLT 150X25 mm	NO.	6	6					
1703	1021-475	NUT WITH BOLT 90X20 mm	NO.	25	25					
1704	1021-476	NUT WITH BOLT 110X20 mm	NO.	45	45					
1705	1021-477	NUT WITH BOLT 130X20 mm	NO.	12	12					
1706	1021-478	NUT WITH BOLT 55X10 mm	NO.	20	20					
1707	1021-479	NUT WITH BOLT 140X20 mm	NO.	18	18					
1708	1021-480	NUT WITH BOLT 95X15 mm	NO.	25	25					
1709	1021-481	NUT WITH BOLT 120X20 mm	NO.	10	10					
1710	1021-482	NUT WITH BOLT 55X15 mm	NO.	100	100					
1711	1021-483	NUT BOLT WITH WASHER 110X20 mm	NO.	40	40					
1712	1021-484	NUT BOLT WITH WASHER 70X15 mm	NO.	80	80					
1713	1021-485	NUT WITH BOLT 100X15 mm	NO.	100	100					
1714	1021-486	FLANING FITTING 60 m length	NO.	35	35					
1715	1021-487	FLANING UNION 10 mm dia	NO.	20	20					
1716	1021-488	FLANING UNION 20 mm dia	NO.	38	38					
1717	1021-490	GATE VALVE 40 m	NO.	1	1					
1718	1021-492	M.S BAND 20 m	NO.	2	2					
1719	1021-497	EARTHING PLATE FORM NET FLATE TYPE, SIZE=82 1/2"X155	NO.	24	24					
1720	1021-498	EARTHING PLATE FORM NET FLATE TYPE, SIZE=82 1/2"X225	NO.	9	9					
1721	1021-499	EARTHING PLATE FORM NET FLATE TYPE, SIZE=90 1/2"X155	NO.	9	9					
1722	1021-500	EARTHING PLATE FORM L TYPE NET , SIZE=72X8 1/2"X90	NO.	3	3					
1723	1021-501	EARTHING PLATE FORM L TYPE NET , SIZE=72X8 1/2"X90	NO.	9	9					

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1	2	3	4	5	6	7	8	10	11	12
1724	1021-502	EARTHING PLATE FORM NET FLATE TYPE , SIZE=82 1/2"X90	NO.	3	3					
1725	1021-503	EARTHING PLATE FORM COVERED FLATE TYPE , SIZE=82 1/2"X155	NO.	12	12					
1726	1021-504	EARTHING PLATE FORM COVERED FLATE TYPE , SIZE=82 1/2"X255	NO.	3	3					
1727	1021-505	EARTHING PLATE FORM COVERED L TYPE , SIZE=72X72X90	NO.	6	6					
1728	1021-506	EMPTY STEEL CABLE DRUM, Dia meter 417x267x417 CM	NO.	6	6					
1729	1021-507	220 KV CABLE WITH DRUM, DIA=291X184X291 CM	NO.	2	2					
1730	1021-508	WOODEN ROUND PIECE 33 FT: LENGTH	NO.	3	3					
1731	1021-509	PIPE GRILL SIZE= 44"X217	NO.	22	22					
1732	1021-510	BURNER TIP PLATE FOR IGNITOR GUN, A09M-004	SET	52	52					
1733	1021-511	Dog Conductor	Drum	1	1					
1734	1021-604	Chlonine Color Disc	Nos	1	1					
1735	1021-632	`Voltage Transformer For Winding	Nos	1	1					
1736	1021-633	Magnia Ally Electrode 1/8	Lbs	5	5					
1737	1021-634	Welding Electrode E-307	Pkt	11	11					
1738	1021-635	Merkle Pacty 20mm	Kgs	3	3					
1739	1021-638	Chestcton Gland Packing 16mm	Kgs	1	1					
1740	1021-639	Welding Rod SE - 6010 (12 kg Each)	Tin	4	4					
1741	1021-640	Bearing No:6316 C3	Nos	1	1					
1742	1021-641	Bearing No: Nu-208	Nos	4	4					
1743	1021-642	Bearing No: 6208	Nos	1	1					
1744	1021-643	R/Bearing No: CRL - 20	Nos	1	1					
1745	1021-644	R/Bearing NU - 410	Nos	1	1					
1746	1021-645	Bearing 2213.K	Nos	1	1					
1747	1021-646	B/ Bearing 2217	Nos	1	1					
1748	1021-647	R/Bearing FLT - 3	Nos	1	1					
1749	1021-648	Avery Scale (250Kg)	Nos	1	1					
1750	1021-649	Brase Pipe 12mm x 20" Length	Nos	4	4					
1751	1021-650	Brass Tube 1/2" O.D - 31"	Nos	5	5					
1752	1021-651	Alluminum Bend 4"	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
1753	1021-654	1 Set Of 31 Super Heated Coil Tube	Nos	10	10					
1754	1021-659	Battery Charger	Nos	1	1					
1755	1021-661	Mercury	Kgs	6	6					
1756	1021-662	Temp: Test Well	Nos	5	5					
1757	1021-663	Slf Analyzer Modle:PMC - 208	Nos	1	1					
1758	1021-801	U-CHANNEL 1 1/2"X 1 1/2"X7 ft	NO.	30	30					
1759	1021-802	G.I ANGLE IRON 2"X2"X6 ft	Ft	22	22					
1760	1021-803	ALLUMINIUM ROLLER L-10 ft	NO.	160	160					
1761	1021-806	S.S PIPE 4"X13 ft	NO.	5	5					
1762	1021-808	G.I BOX 12" X 16"	NO.	29	29					
1763	1021-809	G.I BOX 8" X 12"	NO.	32	32					
1764	1021-810	G.I BOX 4" X 6"	NO.	58	58					
1765	1021-811	G.I BOX 8" X 10"	NO.	77	77					
1766	1021-815	P.V.C PIPE 1"X13 ft	NO.	31	31					
1767	1021-816	P.V.C PIPE 3/4"X13 ft	NO.	19	19					
1768	1021-817	P.V.C PIPE 1/2"X13 ft	NO.	5	5					
1769	1021-819	P.V.C PIPE 12"X13 ft	NO.	2	2					
1770	1021-820	P.V.C PIPE 8"X13 ft	NO.	1	1					
1771	1021-821	P.V.C PIPE 13"X6 ft	NO.	4	4					
1772	1021-822	P.V.C PIPE 6"X11 ft	NO.	1	1					
1773	1021-823	P.V.C PIPE 4"X11 ft	NO.	3	3					
1774	1021-824	P.V.C PIPE 3"X13 ft	NO.	5	5					
1775	1021-825	P.V.C PIPE 3"X12 ft	NO.	1	1					
1776	1021-826	P.V.C PIPE 2 1/2"X13 ft	NO.	1	1					
1777	1021-833	STEEL ROD 1/2"X 13 ft	NO.	24	24					
1778	1021-838	G.I PIPE 3"X12 ft	NO.	3	3					
1779	1021-849	S.S PIPE 4"X18 ft	NO.	2	2					
1780	1021-850	M.S PIPE 4"X18 ft	NO.	2	2					
1781	1021-853	G.I PIPE 8"X18 ft	NO.	2	2					
1782	1021-856	G.I PIPE 4"X18 ft	NO.	2	2					
1783	1021-858	G.I PIPE 8"X18 ft	NO.	2	2					
1784	1021-859	STAIR 2 fTX 10ft	NO.	12	12					

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1	2	3	4	5	6	7	8	10	11	12
1785	1021-862	G.I PIPE 3"X18 ft	NO.	10	10					
1786	1021-877	M.S PIPE 5"X18 ft	NO.	3	3					
1787	1021-879	STAIR 1 ft-11"X10 ft	NO.	23	23					
1788	1021-881	STAIR 10 ft X 11"	NO.	32	32					
1789	1021-885	G.I.U- CHANNEL 2 1/2" X 8 ft	NO.	38	38					
1790	1021-893	G.I.U- CHANNEL 2 1/2" X 3"X18 ft	NO.	11	11					
1791	1021-896	ANGLE IRON 2 1/2"X 2 1/2"X12 ft	NO.	5	5					
1792	1021-901	G.I PIPE 2 3/4"X12 ft	NO.	23	23					
1793	1021-919	M.S STRIP 4"X18 ft	NO.	3	3					
1794	1021-925	LIGHT POLE	NO.	10	10					
1795	1021-927	M.S ROD SIZE= 1/4"X18 ft	NO.	3	3					
1796	1021-928	M.S ROD 3/4"X18 ft	NO.	1	1					
1797	1021-930	M.S ROD 1/2"X18 ft	NO.	9	9					
1798	1021-931	U- CHANNEL 2"X16 ft	NO.	107	107					
1799	1021-932	U- CHANNEL 1 1/2"X16 ft	NO.	60	60					
1800	1021-933	U- CHANNEL 1"X16 ft	NO.	300	300					
1801	1021-934	IRON NUT, 3ft-3ftX6ftX6"	NO.	95	95					
1802	1021-935	IRON STRIP assorted	NO.	255	255					
1803	1021-937	PVC PIPE 12" X 6ft-6fT	NO.	1	1					
1804	1021-938	PVC SOCKET 12"X 15"	NO.	7	7					
1805	1021-939	PVC BAND 14"	NO.	3	3					
1806	1021-940	PVC SOCKET 300 mm	NO.	1	1					
1807	1021-941	PVC BAND 13"	NO.	6	6					
1808	1021-942	ROAD LIGHT POLE	NO.	4	4					
1809	1021-943	POLE WITH BASE	NO.	3	3					
1810	1021-946	MAN HOLE 2 ft	NO.	18	18					
1811	1021-947	HOLE FRAME W/O COVER 2 ft-4"	NO.	7	7					
1812	1021-949	U- CHANNEL assorted	NO.	8	8					
1813	1021-950	M.S SOCKET WITH PINS 6"	NO.	60	60					
1814	1021-954	POLE BRACKET 4 ft-9X2"	NO.	10	10					
1815	1021-955	POLE BRACKET 4 ft-9"X1 1/2"	NO.	4	4					
1816	1021-956	SUPPORTING ROD WITH HOLE 1/2" X 5 ft	NO.	10	10					

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1	2	3	4	5	6	7	8	10	11	12
1817	1021-957	U- CHANNEL WITH NUT BOLT	NO.	50	50					
1818	1021-958	PIPE CLAMP WITH BOLT & NUT	NO.	9	9					
1819	1021-959	PIPE CLAMP WITH BOLT & NUT 1"X9"	NO.	25	25					
1820	1021-960	M.S SOCKET 5"	NO.	12	12					
1821	1021-961	IRON SOCKET, 6"	NO.	1	1					
1822	1021-962	SUPPORTING 4 ftX3"	NO.	19	19					
1823	1021-963	PIPE CLAMP WITH NUT & BOLT	NO.	16	16					
1824	1021-964	PIPE CLAMP,	NO.	14	14					
1825	1021-965	PIPE WITH BASE 10 ft-8"	NO.	19	19					
1826	1021-966	M.S FLANGE Assorted	NO.	32	32					
1827	1021-968	INSULATION SPIRAL PIPE 12" X 8 ft	NO.	1	1					
1828	1021-969	INSULATION SPIRAL PIPE 9" X 13 ft	NO.	3	3					
1829	1021-971	U- CHANNEL SHEET Assorted	NO.	40	40					
1830	1021-981	STOPER IRON PLATE	NO.	4	4					
1831	1021-983	IRON NET 3 ft	ROLL	3	3					
1832	1021-984	IRON NET 2 ft - 10"	NO.	4	4					
1833	1021-985	TRENCH COVER 2 ftX10"	NO.	34	34					
1834	1021-989	IRON NET 4 ft	NO.	3	3					
1835	1021-990	IRON PLATE WITH HOLE DIFFERENT	NO.	12	12					
1836	1021-992	STEEL STAIR, 1 1/2 ft X 14 ft	NO.	2	2					
1837	1021-993	STEEL STAIR, 1 1/2 ft X 11 1/2 ft	NO.	7	7					
1838	1021-994	U- CLAMP 10"X18"	NO.	18	18					
1839	1021-995	IRON PIECES WITH PIN Assorted	NO.	169	169					
1840	1021-996	IRON PIPE WITH PIN	NO.	18	18					
1841	1021-998	SUPPORTING WITH BASE	NO.	4	4					
1842	1021-1000	Iron Eye Bolt	NO.	2	2					
1843	1021-1001	Angle Iron Piece	NO.	1	1					
1844	1021-1002	Iron Rod 1/2" x 1'	NO.	130	130					
1845	1021-1003	U.Chennal G.I Sheet 5' x 1' - 2"	NO.	99	99					
1846	1021-1004	U.Chennal G.I Sheet 5' x 1' - 2"	NO.	130	130					
1847	1021-1005	Plate Form	NO.	12	12					
1848	1021-1006	Plate Form	NO.	5	5					

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1849	1021-1007	Grill Pipe (Assorted)	NO.	3	3					
1850	1021-1008	Iron Nut Door 3' x 3" x 5' - 10"	NO.	2	2					
1851	1021-1009	Iron Trunch Plate 6' x 7.5'	NO.	2	2					
1852	1021-1010	Wooden Roller Block 10 ' x 4'	NO.	90	90					
1853	1021-1012	G.I Supporting 1' - 4" x 3' - 3'	NO.	3	3					
1854	1021-1013	Iron Surface Plate (Tray)	NO.	132	132					
1855	1021-1014	Iron Sheet 2 ' - 3 '	NO.	7	7					
1856	1021-1015	Steel With Hole 1" - 3" x 2' - 9"	NO.	1	1					
1857	1021-1016	DC Fan 24V	NO.	6	6					
1858	1021-1017	Scale / Wooden Leavling Stuff	NO.	2	2					
1859	1021-1018	Level Stand	NO.	1	1					
1860	1021-1019	Dip Rod	NO.	1	1					
1861	1021-1020	Ribbon L01-6157	NO.	15	15					
1862	1021-1021	Packing	NO.	6	6					
1863	1021-1022	Simiata Gauge Tube	NO.	2	2					
1864	1021-1024	EMPTY Tool Box	NO.	2	2					
1865	1021-1025	Rubber Sheet	ROLL	1	1					
1866	1021-1026	Fuse Box	No	5	5					
1867	1021-1029	Plastic White Sheet	No	10	10					
1868	1021-1030	Forceleen Connector	No	7	7					
1869	1021-1031	Forceleen Bush	No	20	20					
1870	1021-1032	Wooden Handle (Danda For Hammer)	No	10	10					
1871	1021-1034	Metal Card Switch With Fuse 100 Amp	No	2	2					
1872	1021-1035	Forceleen Connector	No	9	9					
1873	1021-1036	U Claimp	No	25	25					
1874	1021-1037	Support Clamp	No	5	5					
1875	1021-1038	I Hook	No	2	2					
1876	1021-1039	11 Kv Fuse Link	No	5	5					
1877	1021-1040	White Porceleen Bush (Large)	No	15	15					
1878	1021-1041	White Porceleen Bush (Small)	No	15	15					
1879	1021-1042	Revit	No	20	20					
1880	1021-1043	Clamp Set	No	10	10					

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1881	1021-1045	Coating Set	Set	8	8					
1882	1021-1047	Drum Guage	No	2	2					
1883	1021-1048	H . Beam 6" x 6" x 14' - 8'	No	1	1					
1884	1021-1051	H . Beam 10" x 10" x 23'	No	3	3					
1885	1021-1052	H . Beam 16" x 16" x 34'	No	2	2					
1886	1021-1053	H . Beam 5' x 5' x 26"	No	1	1					
1887	1021-1054	U - Chennal 4" x 2" x 36'	No	2	2					
1888	1021-1055	U - Chennal 6' x 3" x 18'	No	4	4					
1889	1021-1057	Gysum Bond (Insulation)	Pkt	165	165					
1890	1021-1058	Frame	Nos	1	1					
1891	1021-1059	M.S Pipe 4" x 18'	Nos	1	1					
1892	1021-1060	Socket 24 Dia	Nos	2	2					
1893	1021-1062	Pipe Socket 24"	Nos	1	1					
1894	1021-1063	Squre Bar 1 1/4" x 1 1/4" x 4'	Nos	3	3					
1895	1021-1069	M.S Pipe 1.5" x 18'	Nos	1	1					
1896	1021-1070	Telephone Cable 10/12 Core	Mtr	28	28					
1897	1021-1071	Corogated Sheet 25" x 26'	Nos	182	182					
1898	1021-1072	Glass Wool Roll 50 x 910 x 22000mm	ROLL	58	58					
1899	1021-1073	Glass Wool Barrel 50 x 105 x 910	Pkt	91	91					
1900	1020-001	Copper Sheet Size : 01mm	Kg	122	122					
1901	1020-002	Copper Sheet Size : 02mm	Kg	88	88					
1902	1020-003	Copper Sheet Size : 03mm	Kg	64	64					
1903	1020-004	Chemical Resistance (Rubber Sheet) 2mm	Kg	40	40					
1904	1020-005	Chemical Resistance (Rubber Sheet) 3mm	Kg	5	5					
1905	1020-011	Galonized Washer M-14	Kg	15	15					
1906	1020-013	Galonized Washer M-20	Kg	30	30					
1907	1020-016	HEX: Nut & Bolt Size:12 x 25mm	Kg	75	75					
1908	1020-019	HEX: Nut & Bolt Size:16 x 40mm	Kg	7	7					
1909	1020-023	HEX: Nut & Bolt Size:16 x 120mm	Kg	70	70					
1910	1020-024	HEX: Nut & Bolt Size:18 x 60mm	Kg	15	15					
1911	1020-025	HEX: Nut & Bolt Size:18 x 80mm	Kg	57	57					
1912	1020-026	HEX: Nut & Bolt Size:18 x 95mm	Kg	40	40					

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1913	1020-027	HEX: Nut & Bolt Size:20 x 45mm	Kg	95	95					
1914	1020-028	HEX: Nut & Bolt Size:20 x 60mm	Kg	85	85					
1915	1020-030	Hydrolic Oil Pump (Hand Type)	Nos	4	4					
1916	1020-040	Electric Module Circute Fa Melody Central	Nos	20	20					
1917	1020-044	A - 100 Back Plane	Nos	1	1					
1918	1020-045	A - 101 Rectific Central Unit - 2	Nos	1	1					
1919	1020-046	A - 102 Anuertor Rnuertor unit - 3	Nos	1	1					
1920	1020-052	A - 11 Trigger Unit - 9	Nos	1	1					
1921	1020-053	A - 12 - Interface	Nos	1	1					
1922	1020-054	A - 13.1 Drinner Unit	Nos	1	1					
1923	1020-055	A - 13.2 Drinner Unit	Nos	1	1					
1924	1020-056	A - 14 - Control Pannel	Nos	1	1					
1925	1020-057	A - 16 - Interface Module Phonin FLIL - 26 - PO1	Nos	1	1					
1926	1020-059	A - 24 Remote Control Unit GE-451906.0019.00	Nos	1	1					
1927	1020-060	A - 51 - C10 Capicitor	Nos	1	1					
1928	1020-061	A - 52 - C10 Capicitor	Nos	1	1					
1929	1020-062	A - 53 - C10 Capicitor	Nos	1	1					
1930	1020-063	A - 54 - C10 Capicitor	Nos	1	1					
1931	1020-064	A - 61 - C10 Capicitor	Nos	1	1					
1932	1020-065	A - 62 - C11 Capicitor	Nos	1	1					
1933	1020-066	A - 63 - C11 Capicitor	Nos	1	1					
1934	1020-067	A - 64 - C11 Capicitor	Nos	1	1					
1935	1020-068	A - 61 - F9 Thermostate	Nos	1	1					
1936	1020-069	A - 63 - F9 Thermostate	Nos	1	1					
1937	1020-070	A - 51 - R10 Resistor	Nos	1	1					
1938	1020-071	A - 52 - R10 Resistor	Nos	1	1					
1939	1020-072	A - 53 - R10 Resistor	Nos	1	1					
1940	1020-073	A - 54 - R10 Resistor	Nos	1	1					
1941	1020-074	A - 51.V10 Schollky Diod	Nos	1	1					
1942	1020-075	A - 52.V10 Schollky Diod	Nos	1	1					
1943	1020-076	A - 53.V10 Schollky Diod	Nos	1	1					
1944	1020-077	A - 54.V10 Schollky Diod	Nos	1	1					

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1945	1020-078	A - 51.V11 Schollky Diod	Nos	1	1					
1946	1020-079	A - 52.V11 Schollky Diod	Nos	1	1					
1947	1020-080	A - 53.V11 Schollky Diod	Nos	1	1					
1948	1020-081	A - 54.V11 Schollky Diod	Nos	1	1					
1949	1020-082	A - 51.V12 Transister	Nos	1	1					
1950	1020-083	A - 52.V12 Transister	Nos	1	1					
1951	1020-084	A - 53.V12 Transister	Nos	1	1					
1952	1020-085	A - 54.V12 Transister	Nos	1	1					
1953	1020-086	C1 - Capicitor	Nos	1	1					
1954	1020-087	C1 - Finnia Detail	Nos	3	3					
1955	1020-088	C2 - Capisito 150uf	Nos	1	1					
1956	1020-089	C51 - Capicitor MKP - 1 - 44/A	Nos	1	1					
1957	1020-090	C52 - Capicitor	Nos	1	1					
1958	1020-091	C53 - Capicitor	Nos	1	1					
1959	1020-092	C55 - Capicitor	Nos	1	1					
1960	1020-093	C56 - Capicitor	Nos	1	1					
1961	1020-094	C58 - Capicitor	Nos	1	1					
1962	1020-095	F1 - F3 Fuse (35 Amp)	Nos	3	3					
1963	1020-096	F4 - THYRISTOR Fuse (80 Amp)	Nos	1	1					
1964	1020-097	Fuse Holer	Nos	1	1					
1965	1020-098	F5 - THYRISTOR Fuse (125 Amp)	Nos	1	1					
1966	1020-099	F7 Circuit Breaker	Nos	1	1					
1967	1020-100	F7 - Cover	Nos	1	1					
1968	1020-101	L1 Chook	Nos	1	1					
1969	1020-102	L2 Ferrile Core	Nos	2	2					
1970	1020-103	L3 Ferrile Core	Nos	2	2					
1971	1020-104	Display P - DIG - 62 x 38 - Adopter	Nos	1	1					
1972	1020-105	Q1 Swtich stock	Nos	1	1					
1973	1020-106	Q2 - Q3 Fuse Isolator Stock 16 - 852 - 07	Nos	2	2					
1974	1020-107	R2 - Shunt Stock 302655	Nos	1	1					
1975	1020-108	T3 - T4 Current Transformer Stock 302663	Nos	2	2					
1976	1020-109	V51 - V52 Thyristor Modile Stock 302 - 672 (2 Pcs)	Set	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1977	1020-112	Spring Type Pressure Guage V - 50 ZT 0 - 06 mpa 1.5	Nos	14	14					
1978	1020-122	Electric Contact Pressure Guage YX-150	Nos	3	3					
1979	1020-124	Dyphram anticorosion Pressure Guage YTP - 100	Nos	6	6					
1980	1020-126	Thermal resistor Type:WZP 230 (PT - 100)	Nos	7	7					
1981	1020-127	Thermal resistor Type:WZP 230 (PT - 100)	Nos	18	18					
1982	1020-128	Thermal resistor Type:WZP 230 (PT - 100)	Nos	29	29					
1983	1020-130	Thermal resistor Type:WZP 230 (PT - 100)	Nos	50	50					
1984	1020-131	Thermal resistor Type:WZP 230 (PT - 100)	Nos	40	40					
1985	1020-132	Thermal resistor Type:WZP 230 (PT - 100) Leader	Nos	98	98					
1986	1020-133	Thermal resistor Type:WZP 230 (PT - 100) L - 450mm	Nos	49	49					
1987	1020-134	Thermal resistor Type:WZP 230 (PT - 100) L - 400mm	Nos	43	43					
1988	1020-135	Thermal resistor Type:WZP 230 (PT - 100) L - 375mm	Nos	35	35					
1989	1020-136	XY - Cyramic PT - 100	Nos	100	100					
1990	1020-144	Double Metal Thermocitor (Temp: Guage) 0~100 L=1250mm	Nos	5	5					
1991	1020-152	RCC Pipe 6"Dia x 6 Length'	rft	30	30					
1992	1020-156	Oxygen Hose Pipe	Mtr	15	15					
1993	1020-161	DYE Check Liquid Penetrating	Can	13	13					
1994	1020-162	DYE Check Liquid Developer	Can	37	37					
1995	1020-164	Filter Guage 20 mesh	ROLL	3	3					
1996	1020-167	H.P Gland Packing 12mm (0.5 Kg)	kg	1	1					
1997	1020-169	Steel Wire Cutter	Nos	2	2					
1998	1020-178	Red Copper Rod 15mm	kg	6	6					
1999	1020-180	Red Copper Rod 30mm	kg	10	10					
2000	1020-193	Brass Welding Rod	kg	3	3					
2001	1020-206	Sealing Glue	Nos	36	36					
2002	1020-208	2nd Stage Suction Valve	Nos	2	2					
2003	1020-210	1st Stage Suction Valve	Nos	6	6					
2004	1020-212	2nd Stage Suction Valve 22 - 3/8 - 1 (B)	Nos	9	9					
2005	1020-217	V1 - V4 Thyrisistor Module Stock 308669	Nos	1	1					
2006	1020-218	V3 - V6 Thyrisistor Module Stock 302669	Nos	1	1					
2007	1020-219	V5 - V2 Thyrisistor Module Stock 302669	Nos	1	1					
2008	1020-220	Current Transformer Stock 302665	Nos	1	1					

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2009	1020-221	V51 - V52 Thyrisistor Module	Nos	1	1					
2010	1020-222	V53 - V54 Thyrisistor Module	Nos	1	1					
2011	1020-223	V55 - V56 Rectifier Stock 302653	Nos	2	2					
2012	1020-225	Pressure Guage 0~6 Kg Psi 0~80	Nos	2	2					
2013	1020-229	Pressure Guage 0~60 Kg Psi 0~800	Nos	8	8					
2014	1020-231	Pressure Guage 0~100 Kg Psi 0~1500	Nos	34	34					
2015	1020-232	Pressure Guage 0~250 Kg Psi 0~3500	Nos	36	36					
2016	1020-233	Pressure Guage 0~300 Kg Psi 0~400	Nos	16	16					
2017	1020-234	Pressure Guage 0~300 Kg Psi 0~400	Nos	36	36					
2018	1020-235	Pressure Guage 0~60 Kg Psi 0~800	Nos	8	8					
2019	1020-238	Pressure Guage 1.6 Kg	Nos	5	5					
2020	1020-241	Pressure Guage 1 Kg	Nos	2	2					
2021	**S.R - 01**	VM1 Card	Nos	1	1					
2022	**S.R - 02**	Card MAC * 3 (Serviceable)	Nos	3	3					
2023	**S.R - 03**	I C04078BF	Nos	2	2					
2024	**S.R - 04**	HAIC * A Card (Repairable)	Nos	2	2					
2025	**S.R - 05**	VM4 - * D Card (serviceable)	Nos	1	1					
2026	**S.R - 06**	CAO x A Card (Repairable)	Nos	1	1					
2027	**S.R - 07**	Conductivity Resistivity Analyzer Controler (serviceable)	Nos	1	1					
2028	**S.R - 08**	Colour Camera (serviceable)	Nos	2	2					
2029	**S.R - 09**	AFS - IDD - 01A Card (Repairable)	Nos	15	15					
2030	**S.R - 11**	O2 Cylinder Without Gas (Empty)	Nos	15	15					
2031	**S.R - 12**	AFS - SBC - O2 Cards (Repairable)	Nos	6	6					
2032	**S.R - 13**	O2 Analyzer Converter (Serivicable)	Nos	3	3					
2033	**S.R - 14**	Ignition Rods (Repairable)	Nos	6	6					
2034	**S.R - 15**	Pressure Guage 0~10kg	Nos	2	2					
2035	**S.R - 16**	Bed Table (Old) (Unservisable)	Nos	2	2					
2036	**S.R - 17**	Batteries (Unservisable)	Nos	1	1					
2037	**S.R - 18**	Chain Damage	Nos	3	3					
2038	**S.R - 19**	Isolation Card 9IIC	Nos	9	9					
2039	**S.R - 21**	Card ZDFC - 6100	Nos	1	1					
2040	**S.R - 22**	Card ZDZC - 3000	Nos	4	4					

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2041	**S.R - 23**	Card ZDGS - 6010	Nos	1	1					
2042	**S.R - 24**	Card ZDZY - 6000	Nos	1	1					
2043	**S.R - 25**	Card ZDJK - 1000	Nos	1	1					
2044	**S.R - 26**	Card ZDGM - 6000	Nos	2	2					
2045	**S.R - 27**	Card ZDFZ - 1000	Nos	1	1					
2046	**S.R - 28**	Card ZDJN - 1000	Nos	1	1					
2047	**S.R - 29**	Card ZDZT - 4000	Nos	2	2					
2048	**S.R - 30**	Card ZDKC - 3010	Nos	1	1					
2049	**S.R - 31**	Card ZDGB - 2000	Nos	1	1					
2050	**S.R - 32**	Temp: Transister 5351-2102-0-600	Nos	2	2					
2051	**S.R - 36**	Keyboard FCCID FK - 6000	Nos	1	1					
2052	**S.R - 39**	Fuse Against 5 Amp	Nos	20	20					
2053	**S.R - 40**	C.T5 TE * A Card	Nos	3	3					
2054	**S.R - 41**	Power Supply For ABS System 8010 A - 2000	Nos	1	1					
2055	**S.R - 43**	Multimeter 8840 A	Nos	1	1					
2056	**S.R - 44**	L.C.D Program Set	Nos	1	1					
2057	**S.R - 45**	Pressure Calibrator YS 60	Nos	1	1					
2058	**S.R - 46**	Pressure Calibrator YS - 2.5	Nos	1	1					
2059	**S.R - 47**	Micro Processor Control Card	Nos	1	1					
2060	**S.R - 47-A**	Aluminium Sheet Size:850 x 4500m	Nos	9	9					
2061	**S.R - 48**	Drum Level Indicator DFS - 2	Nos	1	1					
2062	**S.R - 49**	I . F . T Valve (Uno:1)	Nos	4	4					
2063	**S.R - 50**	Oxygen For OZRO DH6 10% U-2	Nos	1	1					
2064	**S.R - 51**	No:1 Moter 0-10% For Oxygen Analyzer (U-2)	Nos	2	2					
2065	**S.R - 52**	R G E Module	Nos	1	1					
2066	**S.R - 53**	Operator Console SIEMENS	Nos	2	2					
2067	**S.R - 54**	T O G Module	Nos	1	1					
2068	**S.R - 55**	E Z C Module	Nos	1	1					
2069	**S.R - 59**	Probe: For Analyzer	Nos	2	2					
2070	**S.R - 60**	A/C Volt Moter	Nos	1	1					
2071	**S.R - 61**	Digital Temp: Moter	Nos	1	1					
2072	**S.R - 62**	Card Calibrator ZDFX - 1010	Nos	1	1					

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2073	**S.R - 65**	Flopy Disk Drive	Nos	1	1					
2074	**S.R - 66**	Module I O P	Nos	1	1					
2075	**S.R - 67**	Auto Calibrator	Nos	1	1					
2076	**S.R - 68**	RK-10 Module Card	Nos	1	1					
2077	**S.R - 69**	Transducer Circute Card Pv-04 (H4-LVD)	Nos	1	1					
2078	**S.R - 72**	Recorder MR-180	Nos	1	1					
2079	**S.R - 73**	UPS Card A-103	Nos	1	1					
2080	**S.R - 74**	UPS Card A-104	Nos	1	1					
2081	**S.R - 75**	UPS Card A-105	Nos	1	1					
2082	**S.R - 76**	UPS Card A-106	Nos	1	1					
2083	**S.R - 77**	UPS Card A-108	Nos	1	1					
2084	**S.R - 78**	AFS 10-01 / Output Buffer Card	Nos	1	1					
2085	**S.R - 79**	Analog / Output Board DAS-A1	Nos	1	1					
2086	**S.R - 81**	Drive Board PC-75 E-21	Nos	1	1					
2087	**S.R - 82**	Thyrust Controller PCB -CSR-Controller S#96640-27/52/001	Nos	1	1					
2088	**S.R - 83**	Voltage Error PCB 8EA-064-201	Nos	1	1					
2089	**S.R - 84**	Firing PCB 8EA-064-415	Nos	1	1					
2090	**S.R - 85**	Power Supply PCB 8EA-064-205	Nos	1	1					
2091	**S.R - 86**	Signal Mixing PCB 8EA-064-433	Nos	1	1					
2092	**S.R - 87**	Damping PCB 8EA-064-433	Nos	1	1					
2093	**S.R - 88**	Phase Shifter PCB 8EA-064-414	Nos	1	1					
2094	**S.R - 89**	SBC Control Unit A105 (3.0946/006.2-C)	Nos	1	1					
2095	**S.R - 90**	6 ACS Card	Nos	7	7					
2096	**S.R - 91**	5 R=D Card	Nos	2	2					
2097	**S.R - 92**	12 LD Card	Nos	13	13					
2098	**S.R - 93**	2 DCS Card	Nos	11	11					
2099	**S.R - 94**	Frequency Detection Card	Nos	13	13					
2100	**S.R - 95**	3 RM Card	Nos	13	13					
2101	**S.R - 97**	Intensity Fault Detection Card (Flame Signal)	Nos	7	7					
2102	**S.R - 98**	Lamp & Meter Card (Flame Fault Card)	Nos	3	3					
2103	**S.R - 99**	Set Signal Card (SS)	Nos	2	2					
2104	**S.R - 100**	3 TD Card	Nos	29	29					

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2105	**S.R - 101**	Calibrating Device ZDFX-1000	Nos	1	1					
2106	**S.R - 102**	IO.01 Card	Nos	1	1					
2107	**S.R - 103**	Draft Guage	Nos	1	1					
2108	**S.R - 104**	Amunciator Indicator	Nos	4	4					
2109	**S.R - 105**	Speed Control Valve	Nos	10	10					
2110	**S.R - 106**	Ignition Transformer	Nos	10	10					
2111	**S.R - 107**	Rotary Position Indicator AD-12	Nos	6	6					
2112	**S.R - 108**	HE Silence Unit	Nos	1	1					
2113	**S.R - 109**	Titting Actuator	Nos	1	1					
2114	**S.R - 110**	Transiver Card	Nos	7	7					
2115	**S.R - 111**	Penumetic Actuatiring Mech With Cabinets ZSL(GF)21	Nos	8	8					
2116	**S.R - 112**	Light Intensity Card	Nos	8	8					
2117	**S.R - 113**	Frequncy Card	Nos	11	11					
2118	**S.R - 114**	Lamp & Indicator Card	Nos	10	10					
2119	**S.R - 115**	2/4 Flame Fault Card	Nos	2	2					
2120	**S.R - 116**	Elect: Contact Level Indicator UDX-12A	Nos	6	6					
2121	**S.R - 117**	Level Transmitter Range:4136~5076m H2o	Nos	1	1					
2122	**S.R - 118**	Pressure Transister 0~40 Bar AmD	Nos	1	1					
2123	**S.R - 119**	Flow Indicating Switch 0~250m2	Nos	1	1					
2124	**S.R - 121**	Electric Type Writer	Nos	1	1					
2125	**S.R - 122**	Fuel Efficiency Moniter (PEM-500)	Nos	1	1					
2126	**S.R - 123**	Level Transmitter A20R-034	Nos	1	1					
2127	**S.R - 125**	Photocopy Machine	Nos	2	2					
2128	**S.R - 126**	Solinoid Valve For WFT	Nos	1	1					
2129	**S.R - 127**	Feror Gas Cylinder (Empty Capacity 60Kg)	Nos	1	1					
2130	**S.R - 128**	Controll Switch Boxes	Nos	2	2					
2131	**S.R - 129**	Amplifire Module 8061-100	Nos	1	1					
2132	**S.R - 130**	Alaram And Temprature Module 8021-400	Nos	1	1					
2133	**S.R - 131**	Electrolytic Conductivity Cell Module 5203	Nos	2	2					
2134	**S.R - 132**	Electro Moter Governer JDI-B-90	Nos	2	2					
2135	**S.R - 133**	Electro Magnetic Flow Transmitter	Nos	3	3					
2136	**S.R - 134**	Function Module 8068-600	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2137	**S.R - 135**	HCL % Meter (Without Sensor)	Nos	6	6					
2138	**S.R - 136**	NaoH % Meter (Without Sensor)	Nos	8	8					
2139	**S.R - 137**	Power Supply Module 8020-500	Nos	1	1					
2140	**S.R - 138**	Digital Reactor 8061-200	Nos	1	1					
2141	**S.R - 139**	Digital Reactor 8061	Nos	1	1					
2142	**S.R - 140**	Solinoid Valve For Stater Cooling Water	Nos	1	1					
2143	**S.R - 141**	AFS-IO-24	Nos	1	1					
2144	**S.R - 142**	D.C Std:Source 2554 w/o Card	Nos	1	1					
2145	**S.R - 143**	3-Way Valve ITT-1000 (Only Valve)	Nos	2	2					
2146	**S.R - 144**	AFS-IO-26 Card For ABS	Nos	1	1					
2147	**S.R - 145**	Switiching Power Supply ABS (48v)	Nos	1	1					
2148	**S.R - 147**	Pressure Calibrator YS-600	Nos	1	1					
2149	**S.R - 148**	Pressure Calibrator YS-06	Nos	1	1					
2150	**S.R - 149**	Fuel Oil Flowmeter	Nos	2	2					
2151	**S.R - 150**	Fuel Oil Flowmeter	Nos	2	2					
2152	**S.R - 151**	Power Distributer 6001 (Replacement=3001)	Nos	3	3					
2153	**S.R - 152**	Indicator /D-Channel	Nos	2	2					
2154	**S.R - 153**	Micro Pressure Indicator 0~+600 H2o	Nos	1	1					
2155	**S.R - 154**	Micro Pressure Indicator 0~400 H2o	Nos	2	2					
2156	**S.R - 155**	Micro Pressure Indicator 0~250	Nos	2	2					
2157	**S.R - 156**	Micro Pressure Indicator 0~+400	Nos	3	3					
2158	**S.R - 157**	Micro Pressure Indicator 0~-600	Nos	3	3					
2159	**S.R - 158**	9IIC Card	Nos	6	6					
2160	**S.R - 159**	6 ACS Card	Nos	3	3					
2161	**S.R - 160**	Ribon Cartridge (FSSS)	Nos	3	3					
2162	**S.R - 161**	S.S Card (FSSS)	Nos	1	1					
2163	**S.R - 162**	16 DIL Card	Nos	1	1					
2164	**S.R - 163**	Power Distributer	Nos	3	3					
2165	**S.R - 164**	Double Chennel Indicator	Nos	1	1					
2166	**S.R - 165**	Master Keyboard For Unit 1	Nos	1	1					
2167	**S.R - 166**	BNR Control Keyboard Unit 1	Nos	2	2					
2168	**S.R - 170**	H2 Ractifire Panel G2 4K	Nos	1	1					

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2169	**S.R - 171**	Load Cell Assembly	Nos	6	6					
2170	**S.R - 172**	H.P Compaq Elite 8300 Computer	Nos	2	2					
2171	**S.R - 173**	Filter Element For Hv 200 Skid,0330 R 005	Nos	2	2					
2172	**S.R - 174**	Digital Controller Module For Av7 Type:Pvr 10-p	Nos	1	1					
2173	**S.R - 175**	Lamp Card	Nos	3	3					
2174	**S.R - 176**	Helium Gas Cylinder	Nos	1	1					
2175	**S.R - 182**	Plastic Chair	Nos	2	2					
2176	**S.R - 184**	Student Folding Chair	Nos	9	9					
2177	**S.R - 185**	Office Chair Netting	Nos	5	5					
2178	**S.R - 186**	Office Table	Nos	2	2					
2179	**S.R - 187**	Swing Machine And Table	Nos	9	9					
2180	**S.R - 188**	Iron Press (istri)	Nos	1	1					
2181	**S.R - 189**	White Board With Stand	Nos	2	2					
2182	**S.R - 190**	Steel Almirah 6x4	Nos	1	1					
2183	**S.R - 191**	Vessal For Electric Contact Level UDx12A Indicator	Nos	1	1					
2184	**S.R - 192**	Accumlator Cylinder	Nos	1	1					
2185	**S.R - 193**	Demodulator WYBH - II	Nos	3	3					
2186	**S.R - 194**	Thermo Resistance L=200mm	Nos	1	1					
2187	**S.R - 195**	Card NN - 40	Nos	1	1					
2188	**S.R - 196**	Card RM - 20	Nos	1	1					
2189	**S.R - 197**	Controller Level KFLB12 - AM	Nos	1	1					
2190	**S.R - 198**	Card LM - 10	Nos	1	1					
2191	**S.R - 199**	Card Mv - 10	Nos	2	2					
2192	**S.R - 200**	Card RK - 10	Nos	1	1					
2193	**S.R - 201**	Card SN - 10	Nos	1	1					
2194	**S.R - 202**	Card RM - 11	Nos	2	2					
2195	**S.R - 203**	Card SM - 10	Nos	2	2					
2196	**S.R - 204**	Card SR - 10	Nos	2	2					
2197	**S.R - 205**	Card SS - 10	Nos	1	1					
2198	**S.R - 206**	Card SR - 20	Nos	1	1					
2199	**S.R - 207**	Card SOL - 10	Nos	2	2					
2200	**S.R - 208**	Limit Switch	Nos	3	3					

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2201	**S.R - 209**	Oscillator OD : 081	Nos	1	1					
2202	**S.R - 210**	Thermocouple L = 100mm	Nos	2	2					
2203	**S.R - 211**	Thermocouple E 6x2000mm	Nos	2	2					
2204	**S.R - 212**	Thermocouple E 6x3000mm	Nos	2	2					
2205	**S.R - 213**	Zero Gas Cylinder	Nos	9	9					
2206	**S.R - 214**	Ribben Cartridge LQ-2500	Nos	3	3					
2207	**S.R - 215**	INK Cartridge Black	Nos	6	6					
2208	**S.R - 216**	INK Cartridge Colour	Nos	1	1					
2209	**S.R - 217**	Ribben For Printer	Nos	10	10					
2210	**S.R - 218**	Ribben For Hard Copy (01 Set)	Nos	2	2					
2211	**S.R - 219**	Computer Ribbon Black	Nos	5	5					
2212	**S.R - 220**	Contact - Tragging / Contral & Trigger Board	Nos	1	1					
2213	**S.R - 221**	3 Phase Driver Board FY-890B (PC-75 Driver A9-023	Nos	1	1					
2214	**S.R - 222**	Thermocouple WRNKx5000	Nos	9	9					
2215	**S.R - 223**	Thermocouple WRNKx4000	Nos	6	6					
2216	**S.R - 224**	Thermocouple WZP,Lx250mm	Nos	2	2					
2217	**S.R - 225**	Air Filter For ZJM	Nos	1	1					
2218	**S.R - 226**	Thermocouple WRNKx3000	Nos	7	7					
2219	**S.R - 227**	Thermocouple WRNK-2000	Nos	30	30					
2220	**S.R - 228**	Thermocouple WRNK-1000	Nos	3	3					
2221	**S.R - 229**	Electric Control Alarm (Only Vessel)	Nos	14	14					
2222	**S.R - 230**	Porceline Fuse Holder	Nos	32	32					
2223	**S.R - 231**	Transiver Card (Measuring Plate)	Nos	32	32					
2224	**S.R - 232**	O2 Analyzer (Pump Unit & Recorder)	Nos	3	3					
2225	**S.R - 233**	16 DIL Card	Nos	109	109					
2226	**S.R - 234**	Valve MR-100-100 A6	Nos	1	1					
2227	**S.R - 235**	Additional Spares 0~32 B	Nos	1	1					
2228	**S.R - 236**	Steel Cylinder Shell	Nos	2	2					
2229	**S.R - 237**	Puppet Valve	Nos	2	2					
2230	**S.R - 238**	HP/LP Bypass System	Nos	1	1					
2231	**S.R - 239**	Card SV-10	Nos	1	1					
2232	**S.R - 240**	Output Unit 960FYL	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
2233	**S.R - 241**	Distribution Unit 960F	Nos	3	3					
2234	**S.R - 242**	Span Unit E 960YK	Nos	2	2					
2235	**S.R - 243**	Power Combination E 960F	Nos	3	3					
2236	**S.R - 244**	Printer Rack/Desk	Nos	4	4					
2237	**S.R - 245**	9IIC Card	Nos	70	70					
2238	**S.R - 246**	5 R=D Card	Nos	17	17					
2239	**S.R - 247**	12 L C Card	Nos	101	101					
2240	**S.R - 248**	3 RM Card	Nos	7	7					
2241	**S.R - 249**	4 VM Card	Nos	13	13					
2242	**S.R - 251**	Penumetic Actuator Mech : With Cabinet ZSL (GF)-63	Nos	2	2					
2243	**S.R - 252**	Air Cylinder For Oil Burner U#2	Nos	1	1					
2244	**S.R - 253**	Ignition Device = Ignition Pusher = Transformer	Nos	10	10					
2245	**S.R - 254**	Fuel Solinoid For U#1 NEG 24v	Nos	1	1					
2246	**S.R - 256**	Air Cylinder For Main Burner U#1	Nos	1	1					
2247	**S.R - 257**	Air Cylinder For Ignitor 80x200	Nos	2	2					
2248	**S.R - 258**	Pressure Local Regulator Vessel	Nos	2	2					
2249	**S.R - 259**	Elect: Mota / Matric Actuater Regulator Body (BFP)	Nos	2	2					
2250	**S.R - 260**	Thermocouple WZP2 - 220 L= 1000mm	Nos	1	1					
2251	**S.R - 261**	FJM Actuator Regulator ZJM 7DBKIY	Nos	11	11					
2252	**S.R - 262**	ZJM Actuator ZJM 4 DBKIY	Nos	2	2					
2253	**S.R - 263**	ZJM Actuator ZJM 2D 8K1Y	Nos	1	1					
2254	**S.R - 264**	6 ACS Card	Nos	12	12					
2255	**S.R - 267**	Distribution FSSS	Nos	1	1					
2256	**S.R - 268**	Power Transformer For Air Damper	Nos	7	7					
2257	**S.R - 269**	Three Way Valve Assembly w/O Parts	Nos	3	3					
2258	**S.R - 270**	Boiler Drum Vessel	Nos	1	1					
2259	**S.R - 271**	Penumetic Actuator For ZJM 6DBKIY	Nos	2	2					
2260	**S.R - 272**	Penumetic Actuator For ZJM 5DBKIY	Nos	1	1					
2261	**S.R - 274**	Temp: Indicating Swtich 0~120c	Nos	21	21					
2262	**S.R - 275**	Penumetic Positioner ZPD-07	Nos	2	2					
2263	**S.R - 276**	Treacling Scanner Sex-60B	Nos	1	1					
2264	**S.R - 277**	Magnifying Lamp 220v/22w	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2265	**S.R - 278**	Servo Unit HMISU	Nos	1	1					
2266	**S.R - 279**	Servo Unit MV Type	Nos	1	1					
2267	**S.R - 280**	Servo Unit TC Type HM	Nos	1	1					
2268	**S.R - 281**	Servo Unit MA Type HMISU	Nos	1	1					
2269	**S.R - 282**	Penumetic Valve Retainer ZPB-201	Nos	4	4					
2270	**S.R - 283**	Temp: Controller 0~150c KFTAB	Nos	1	1					
2271	**S.R - 284**	Power Supply Module XBB-100	Nos	1	1					
2272	**S.R - 285**	Feed Back Transmitter R4-K	Nos	1	1					
2273	**S.R - 286**	Alarm System Module XBB-GI	Nos	1	1					
2274	**S.R - 287**	Angle Displacement - Transmitter	Nos	2	2					
2275	**S.R - 288**	Card ZWHP Diff Expension	Nos	2	2					
2276	**S.R - 289**	CU-50 RTD's	Nos	39	39					
2277	**S.R - 290**	1st Elevation Cabinet	Nos	1	1					
2278	**S.R - 291**	Card 3TD (FSSS)	Nos	53	53					
2279	**S.R - 292**	Card LPs (FSSS)	Nos	9	9					
2280	**S.R - 293**	Card SS (FSSS)	Nos	7	7					
2281	**S.R - 294**	Card VB)FSSS)	Nos	40	40					
2282	**S.R - 295**	Card 2DCS	Nos	3	3					
2283	**S.R - 296**	2nd Elevation Cabinet	Nos	1	1					
2284	**S.R - 297**	3rd Elevation Cabinet	Nos	1	1					
2285	**S.R - 298**	4th Elevation Cabinet	Nos	1	1					
2286	**S.R - 299**	Gas Cabiner	Nos	1	1					
2287	**S.R - 300**	Power Cabinet Along With C/Breaker 5A Pole (26 Nos)	Nos	1	1					
2288	**S.R - 301**	Transmitters Diff: Type	Nos	11	11					
2289	**S.R - 302**	Umit Logic Cabinet	Nos	1	1					
2290	**S.R - 303**	M.S Pipe 1/4"	Nos	990	990					
2291	**S.R - 304**	Electric Actuators	Nos	8	8					
2292	**S.R - 305**	H.P Aux:Steam Pressure Control Valve CV-3000	Nos	1	1					
2293	**S.R - 306**	E H Oil Filters Diff: Type	Nos	26	26					
2294	**S.R - 307**	L-Key Bolts	Nos	25	25					
2295	**S.R - 308**	S.S Reducer Joint	Nos	2	2					
2296	**S.R - 309**	Flashing Device For : Servo Control Valve	Nos	12	12					

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2297	**S.R - 310**	Blacking Plate For OPC Solinoide With L-Key Bolts	Nos	6	6					
2298	**S.R - 311**	Indicators	Nos	10	10					
2299	**S.R - 312**	Turbine Speed Sensor With Bracket	Nos	1	1					
2300	**S.R - 313**	HP/IP Expansion Sensor (Absoulate)	Nos	1	1					
2301	**S.R - 314**	Turbine Trip Coil	Nos	1	1					
2302	**S.R - 315**	Aux / SCAH / HSD regulator Cabinet Modules	Nos	1	1					
2303	**S.R - 316**	Gland Sealing / Condensor / Dearator Regulator Fan Cabinet Modul	Nos	1	1					
2304	**S.R - 317**	OCCS/Fuel Oil Cabinet / Modules	Nos	43	43					
2305	**S.R - 318**	Feed Water Regulator Cabinate	Nos	1	1					
2306	**S.R - 319**	Primary/ Secondary Spray Reg: Cabinet	Nos	1	1					
2307	**S.R - 320**	RH/GRF Regulator Cabinet	Nos	1	1					
2308	**S.R - 321**	ID Regulator Cabinet	Nos	1	1					
2309	**S.R - 322**	FC Fan Regulator Cabinet/Modules	Nos	48	48					
2310	**S.R - 323**	Gas Regulator Cabinet / Modules	Nos	1	1					
2311	**S.R - 324**	Control Cable 5Core x 1.5mm	Nos	108	108					
2312	**S.R - 325**	Control Cable 32 Core x 1.5mm	Nos	726	726					
2313	**S.R - 326**	Power Supply Card MZ-III	Nos	54	54					
2314	**S.R - 327**	Power Supply MZ Cabinet	Nos	8	8					
2315	**S.R - 328**	Cooling Fan For Power Supply Of MZ Cabinet With Eight Fram	Nos	25	25					
2316	**S.R - 329**	Liner Variable Differential Transformer	Nos	1	1					
2317	**S.R - 330**	Transformer (type :GTTI-93A)	Nos	1	1					
2318	**S.R - 331**	Transformer (type :FSTT-0A85xA20)	Nos	1	1					
2319	**S.R - 332**	Transducer (Type :FSTT:-OA75xA20)	Nos	1	1					
2320	**S.R - 333**	EH Converter LVDT	Nos	4	4					
2321	**S.R - 334**	P O D (Type : Y8151 x N-004)	Nos	1	1					
2322	**S.R - 335**	P O D Cover (Type : TS4F 2129C1)	Nos	1	1					
2323	**S.R - 336**	Test Plug (Type - KTQ - A4 - MR)	Nos	1	1					
2324	**S.R - 337**	Test Plug (Type - KTP - V3 - MR)	Nos	1	1					
2325	**S.R - 338**	PLC (Type - NP 15-42)	Nos	1	1					
2326	**S.R - 339**	PLC (Type - NP IL -JP1)	Nos	1	1					
2327	**S.R - 400**	PLC (Type - NP IL -RS-5)	Nos	1	1					
2328	**S.R - 401**	PLC (Type - NP IL x H87-MR)	Nos	1	1					

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2329	**S.R - 402**	PLC (Type - NP IL -PE-1)	Nos	1	1					
2330	**S.R - 403**	PLC (Type - NP x 3204-A)	Nos	1	1					
2331	**S.R - 404**	PLC (Type - NP1 PS-32R)	Nos	1	1					
2332	**S.R - 405**	PLC (Type - NPIY16 U09P6)	Nos	1	1					
2333	**S.R - 406**	PLC (Type - NPI x 6406 - W)	Nos	1	1					
2334	**S.R - 407**	PLC (Type - NPIY64T09P1)	Nos	1	1					
2335	**S.R - 408**	PLC (Type - NPIL - ETI)	Nos	1	1					
2336	**S.R - 409**	PLC (Type - NPIAYH8 VHR - MR)	Nos	1	1					
2337	**S.R - 410**	HUB (Type: NE - V08)	Nos	1	1					
2338	**S.R - 411**	Power Supply Unit (Type:QUMIT - Ps/1Ac/24Dc120)	Nos	1	1					
2339	**S.R - 412**	Lithium Thienyl Caloride Battery (3.6v) (Type: NP8P-BT)	Nos	4	4					
2340	**S.R - 413**	Spare Parts Empty Box (Blue	Nos	2	2					
2341	**S.R - 414**	Valve Position Transmitter Range : 0~100	Nos	6	6					
2342	**S.R - 415**	Spacer Heater Type : P,A 1102 - IVP)	Nos	4	4					
2343	**S.R - 416**	Relay With Base DC - 110v	Nos	23	23					
2344	**S.R - 417**	Relay With Base D - 100v	Nos	20	20					
2345	**S.R - 418**	DC Power Supply Type : KP Input : DC 176 - 286	Nos	1	1					
2346	**S.R - 419**	DC Power Supply Type : T+R	Nos	2	2					
2347	**S.R - 420**	Timer DC - 24v	Nos	11	11					
2348	**S.R - 421**	Timer DC - 220v	Nos	1	1					
2349	**S.R - 422**	AI Module 8 Channel	Nos	1	1					
2350	**S.R - 423**	PT-100 Module 8 Chennal (AI-RTD)	Nos	1	1					
2351	**S.R - 424**	TC Module 8 Channel (AI-TC)	Nos	1	1					
2352	**S.R - 425**	AO Module 8 Channel	Nos	1	1					
2353	**S.R - 426**	DI Module 16 Channel	Nos	1	1					
2354	**S.R - 427**	D.O 16 Channel	Nos	1	1					
2355	**S.R - 428**	D.O TB 16 Channel	Nos	1	1					
2356	**S.R - 429**	DO TB 6 Channel	Nos	1	1					
2357	**S.R - 430**	DO TB 6 Channel	Nos	1	1					
2358	**S.R - 431**	Screw -Screw - Base	Nos	1	1					
2359	**S.R - 432**	AI -RTD (Cu 50) Module (8 Channel)	Nos	1	1					
2360	T-1/9801	GENERATING BUSHING, G01M-001	Nos	1	1					

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2361	T-1/9802	SPARE BOX, YH 56KV-9	Nos	1	1					
2362	T-1/9803	BUSH, G01M-076	Nos	206	206					
2363	T-1/9803A	PRESSURE CONTROL VALVE, G04M-005	Nos	1	1					
2364	T-1/9804	SPARE BOX, YH 56KV-21	Nos	1	1					
2365	T-1/9804A	O" RING, G01M-004	Nos	24	24					
2366	T-1/9805	O" RING, G01M-005	Nos	4	4					
2367	T-1/9805A	O" RING, G01M-027	Nos	8	8					
2368	T-1/9806	O" RING, G01M-031	Nos	8	8					
2369	T-1/9806A	PACKING, G01M-032	Nos	4	4					
2370	T-1/9807	RUBBER PACKING, G01M-035	Nos	5	5					
2371	T-1/9807A	RUBBER PACKING, G01M-054	Nos	6	6					
2372	T-1/9808	O" RING, G01M-063	Nos	14	14					
2373	T-1/9808A	INSULATION PAD, G01M-065	Nos	14	14					
2374	T-1/9809	O" RING, G04M-001	Nos	4	4					
2375	T-1/9809A	ROUND RUBBER PACKING, G04M-002	Nos	4	4					
2376	T-1/9810	ROUND RUBBER PACKING, G04M-003	Nos	3	3					
2377	T-1/9810A	O" RING, G04M-004	Nos	4	4					
2378	T-1/9811A	FILTER MAT, G01M-083	Nos	32	32					
2379	T-1/9812	ABSORBENT , G03M-001	Nos	75	75					
2380	T-1/9813	TIGHT SEAL, G01M-013,	Nos	14	14					
2381	T-1/9814	BRUSH HOLDER, G01M-079	Nos	8	8					
2382	T-1/9814A	BRUSH HOLDER, G01M-080	Nos	8	8					
2383	T-1/9815	PAN HEAD SCREW, G01M-081	Nos	20	20					
2384	T-1/9816	INSULATION WASHER, G01M-006	Nos	56	56					
2385	T-1/9816A	INSULATION TUBE , G01M-007	Nos	56	56					
2386	T-1/9817	INSULATION WASHER , G01M-008	Nos	8	8					
2387	T-1/9817A	INSULATION RING,, G01M-009	Nos	8	8					
2388	T-1/9818	INSULATION TAP PIN, G01M-010	Nos	16	16					
2389	T-1/9818A	INSULATION LINER, G01M-011	Nos	8	8					
2390	T-1/9819	INSULATION LINER, G01M-012	Nos	8	8					
2391	T-1/9819A	PACKING, G01M-020	Nos	8	8					
2392	T-1/9820	PACKING, G01M-021	Nos	16	16					

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1	2	3	4	5	6	7	8	10	11	12
2393	T-1/9820A	INSULATION LINER, G01M-036	Nos	16	16					
2394	T-1/9821	INSULATION LINER, G01M-037	Nos	16	16					
2395	T-1/9821A	INSULATION WASHER, G01M-039	Nos	127	127					
2396	T-1/9822	PIPE, G01M-040	Nos	128	128					
2397	T-1/9822A	PACKING, G01M-044	Nos	6	6					
2398	T-1/9823	INSULATION WASHER, G01M-045	Nos	96	96					
2399	T-1/9823A	INSULATION TUBE, G01M-046	Nos	96	96					
2400	T-1/9824	PACKING, G01M-048	Nos	2	2					
2401	T-1/9824A	INSULATION WASHER, G01M-050	Nos	96	96					
2402	T-1/9825	INSULATION TUBE, G01M-051	Nos	96	96					
2403	T-1/9825A	INSULATION TUBE, G01M-052	Nos	64	64					
2404	T-1/9826	INSULATION WASHER, G01M-053	Nos	32	32					
2405	T-1/9826A	INSULATION PACKING, G01M-055	Nos	8	8					
2406	T-1/9827	INSULATION PACKING, G01M-056	Nos	16	16					
2407	T-1/9827A	INSULATION PLATE, G01M-061	Nos	16	16					
2408	T-1/9828	INSULATION RING, G01M-062	Nos	16	16					
2409	T-1/9828A	INSULATION TUBE, G01M-066	Nos	64	64					
2410	T-1/9829	INSULATION WASHER, G01M-067	Nos	32	32					
2411	T-1/9829A	INSULATION WASHER, G01M-068	Nos	16	16					
2412	T-1/9830A	SLIP RING, G01R-022	Nos	1	1					
2413	T-1/9831	SPARE BOX, YF10KY-7	Nos	1	1					
2414	T-1/9831A	SLIP RING, G01R-023	Nos	1	1					
2415	T-1/9832	SPARE BOX, YF10KY-8	Nos	1	1					
2416	T-1/9832A	LEVEL SWITCH, G01R-028	Nos	1	1					
2417	T-1/9833	LEVEL SWITCH, G01R-029	Nos	1	1					
2418	T-1/9833A	SPARE BOX, YF10KY-9	Nos	1	1					
2419	T-1/9834	BEARING BUSH, G01R-001	Nos	2	2					
2420	T-1/9834A	BEARING SEAT, G01R-002	Nos	2	2					
2421	T-1/9835	BALANCE PISTON, G01R-003	Nos	4	4					
2422	T-1/9835A	THRUST SEAT, G01R-004	Nos	4	4					
2423	T-1/9836	BALL BEARING, G01R-005	Nos	4	4					
2424	T-1/9836A	MECHANICAL SEAL, G01R-006	Nos	5	5					

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2425	T-1/9837	BEARING BUSH, G01R-007	Nos	2	2					
2426	T-1/9837A	BEARING SEAT, G01R-008	Nos	2	2					
2427	T-1/9838	BALANCE PISTON, G01R-009	Nos	4	4					
2428	T-1/9838A	THRUST SEAT, G01R-010	Nos	4	4					
2429	T-1/9839	BALL BEARING, G01R-011	Nos	4	4					
2430	T-1/9839A	MECHANICAL SEAL, G01R-012	Nos	5	5					
2431	T-1/9840A	BALL BEARING, G01R-014	Nos	2	2					
2432	T-1/9841	OIL SEAL, G01R-015	Nos	4	4					
2433	T-1/9841A	OIL SEAL, G01R-016	Nos	5	5					
2434	T-1/9842	BALL BEARING, G01R-017	Nos	2	2					
2435	T-1/9842A	ROLLER BEARING, G01R-018	Nos	2	2					
2436	T-1/9843	DIAPHRAGM, G01R-019	Nos	2	2					
2437	T-1/9843A	DIAPHRAGM, G01R-020	Nos	2	2					
2438	T-1/9844	DIAPHRAGM, G01R-021	Nos	2	2					
2439	T-1/9844A	BRUSH HOLDER, G01R-025	Nos	2	2					
2440	T-1/9846A	FILTER MAT,G01R-030	Nos	10	10					
2441	T-1/9847	GASKET G01R-032	Nos	5	5					
2442	T-1/9848A	GASKET G01R-035	Nos	5	5					
2443	T-1/9849	GASKET G01R-036	Nos	5	5					
2444	T-1/9851	BEARING BUSH, G01M-072	Nos	1	1					
2445	T-1/9851A	SPARE BOX, YH56KY-19	Nos	1	1					
2446	T-1/9852	PACKING, G01M-014	Nos	56	56					
2447	T-1/9852A	PLAIN WASHER, G01M-015	Nos	8	8					
2448	T-1/9853	PACKING, G01M-016	Nos	16	16					
2449	T-1/9853A	SPRING LOCK WASHER, G01M-017	Nos	56	56					
2450	T-1/9854	WASHER, G01M-018	Nos	32	32					
2451	T-1/9854A	WASHER, G01M-019	Nos	16	16					
2452	T-1/9855	PACKING, G01M-022	Nos	8	8					
2453	T-1/9855A	DOUBLE 'WASHER, G01M-023	Nos	48	48					
2454	T-1/9856	NIPPLE, G01M-024	Nos	72	72					
2455	T-1/9856A	PACKING, G01M-025	Nos	56	56					
2456	T-1/9857	PACKING, G01M-026	Nos	8	8					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2457	T-1/9857A	WASHER, G01M-028	Nos	50	50					
2458	T-1/9858	WASHER, G01M-029	Nos	111	111					
2459	T-1/9858A	WASHER, G01M-030	Nos	128	128					
2460	T-1/9859	PAVEL WASHER, G01M-033	Nos	16	16					
2461	T-1/9859A	WASHER, G01M-034	Nos	32	32					
2462	T-1/9860	CONIEL SPRING 'WASHER, G01M-038	Nos	128	128					
2463	T-1/9860A	WASHER, G01M-041	Nos	128	128					
2464	T-1/9861	SEAL SPRING, G01M-042	Nos	144	144					
2465	T-1/9861A	SEAL STRIP, G01M-043	Nos	16	16					
2466	T-1/9862	SEAL STRIP, G01M-047	Nos	64	64					
2467	T-1/9862A	SEAL STRIP, G01M-049	Nos	64	64					
2468	T-1/9863	DOUBLE 'WASHER, G01M-057	Nos	28	28					
2469	T-1/9863A	SEAL STRIP, G01M-058	Nos	16	16					
2470	T-1/9864	DOUBLE 'WASHER, G01M-059	Nos	21	21					
2471	T-1/9864A	TONGUED WASHER, G01M-060	Nos	96	96					
2472	T-1/9865	DOUBLE 'WASHER, G01M-064	Nos	16	16					
2473	T-1/9865A	TONGUED WASHER, G01M-069	Nos	32	32					
2474	T-1/9866	PLAN WASHER, G01M082	Nos	20	20					
2475	T-1/9867	BALL BEARING, F02M-021	Nos	1	1					
2476	T-1/9867A	SPARE BOX, YH56KY-11	Nos	1	1					
2477	T-1/9868	BEARING BUSH,G01M-070	Nos	1	1					
2478	T-1/9868A	SPARE BOX, YH56KY-17	Nos	1	1					
2479	T-1/9869	BEARING BUSH,G01M-071	Nos	1	1					
2480	T-1/9869A	SPARE BOX, YH56KY-18	Nos	1	1					
2481	T-1/9870	OIL SEAL RING,G01M-073	Nos	1	1					
2482	T-1/9870A	OIL SEAL RING,G01M-074	Nos	1	1					
2483	T-1/9871	SPARE BOX, YH56KY-20	Nos	1	1					
2484	T-1/9871A	RECTIFIER, FKG-S-3	Nos	1	1					
2485	T-1/9882A	PIPE, D27,2X5500,C02M-662	Nos	1	1					
2486	T-1/9883	PIPE, D25A0X5500,C02M-663	Nos	1	1					
2487	T-1/9883A	PIPE, D48,6X5500,C02M-664	Nos	1	1					
2488	T-1/9884	PIPE, D60,5X5500,C02M-665	Nos	1	1					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2489	T-1/9885A	PIPE, D76,3X5500,C02M-668	Nos	1	1					
2490	T-1/9886	PIPE, D114,3X5500,C02M-669	Nos	1	1					
2491	T-1/9886A	PIPE, D139,8X5500,C02M-670	Nos	1	1					
2492	T-1/9887A	PIPE, D34,0X5500,C02M-672	Nos	1	1					
2493	T-1/9888	PIPE, D48,6X5500,C02M-673	Nos	1	1					
2494	T-1/9890	PIPE, D48,6X5500,C02M-677	Nos	1	1					
2495	T-1/9890A	PIPE, D60,5X5500,C02M-678	Nos	1	1					
2496	T-1/9891	PIPE, D76,3X5500,C02M-679	Nos	1	1					
2497	T-1/9891A	PIPE, D89,1X5500,C02M-680	Nos	1	1					
2498	T-1/9892A	PIPE, D139,8X5500,C02M-682	Nos	1	1					
2499	T-1/9893	PIPE, D165,2X5500,C02M-683	Nos	1	1					
2500	T-1/9893A	PIPE, D216,3X5500,C02M-684	Nos	1	1					
2501	T-1/9894	PIPE, D267,4X5500,C02M-685	Nos	1	1					
2502	T-1/9894A	PIPE, D318,5X5500,C02M-686	Nos	1	1					
2503	T-1/9895	PIPE, D406,4X5500,C02M-687	Nos	1	1					
2504	T-1/9895A	PIPE, 3BXSC1+40X5500	Nos	1	1					
2505	T-1/9896	ELBOW, CO2M-688	Nos	1	1					
2506	T-1/9896A	ELBOW, CO2M-689	Nos	1	1					
2507	T-1/9898	ELBOW, CO2M-692	Nos	1	1					
2508	T-1/9898A	ELBOW, CO2M-693	Nos	1	1					
2509	T-1/9899	ELBOW, CO2M-694	Nos	1	1					
2510	T-1/9900	ELBOW, CO2M-696	Nos	1	1					
2511	T-1/9900A	ELBOW, CO2M-697	Nos	1	1					
2512	T-2/9901	ELBOW, CO2M-698	Nos	1	1					
2513	T-2/9901A	ELBOW, CO2M-699	Nos	1	1					
2514	T-2/9902	ELBOW, CO2M-700	Nos	1	1					
2515	T-2/9902A	ELBOW, CO2M-701	Nos	1	1					
2516	T-2/9903	ELBOW, CO2M-702	Nos	1	1					
2517	T-2/9903A	ELBOW, CO2M-703	Nos	1	1					
2518	T-2/9904A	ELBOW, CO2M-705	Nos	1	1					
2519	T-2/9905	ELBOW, CO2M-706	Nos	1	1					
2520	T-2/9905A	ELBOW, CO2M-707	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2521	T-2/9906	ELBOW, CO2M-708	Nos	1	1					
2522	T-2/9906A	ELBOW, CO2M-709	Nos	1	1					
2523	T-2/9907A	ELBOW, CO2M-711	Nos	1	1					
2524	T-2/9908	ELBOW, CO2M-712	Nos	1	1					
2525	T-2/9908A	ELBOW, CO2M-713	Nos	1	1					
2526	T-2/9909	STUD, CO1M-036	Nos	1	1					
2527	T-2/9909A	STUD, CO1M-037	Nos	1	1					
2528	T-2/9910	STUD, CO1M-038	Nos	1	1					
2529	T-2/9910A	STUD, CO1M-039	Nos	1	1					
2530	T-2/9911	STUD, CO1M-040	Nos	1	1					
2531	T-2/9911A	STUD, CO1M-041	Nos	1	1					
2532	T-2/9912	STUD, CO1M-042	Nos	1	1					
2533	T-2/9912A	STUD, CO1M-043	Nos	1	1					
2534	T-2/9913	CAP NUT, CO1M-044	Nos	1	1					
2535	T-2/9913A	CAP NUT, CO1M-045	Nos	1	1					
2536	T-2/9914	CAP NUT, CO1M-046	Nos	1	1					
2537	T-2/9914A	CAP NUT, CO1M-047	Nos	1	1					
2538	T-2/9915	CAP NUT, CO1M-048	Nos	1	1					
2539	T-2/9915A	CAP NUT, CO1M-049	Nos	1	1					
2540	T-2/9916	BOLT, CO1M-050	Nos	1	1					
2541	T-2/9916A	BOLT, CO1M-051	Nos	1	1					
2542	T-2/9917	STUD, C01M-052	Nos	1	1					
2543	T-2/9917A	STUD, C01M-053	Nos	1	1					
2544	T-2/9918	STUD, C01M-054	Nos	1	1					
2545	T-2/9918A	STUD, C01M-055	Nos	1	1					
2546	T-2/9919	STUD, C01M-056	Nos	1	1					
2547	T-2/9919A	BOLT, C01M-057	Nos	1	1					
2548	T-2/9920	CAP NUT, C01M-058	Nos	1	1					
2549	T-2/9920A	STUD, C01M-059	Nos	1	1					
2550	T-2/9921	STUD, C01M-060	Nos	1	1					
2551	T-2/9921A	CAP NUT, C01M-061	Nos	1	1					
2552	T-2/9922	CAP NUT, C01M-062	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2553	T-2/9922A	STUD, C01M-063	Nos	1	1					
2554	T-2/9923	BOLT, C01M-064	Nos	1	1					
2555	T-2/9923A	STUD, C01M-065	Nos	1	1					
2556	T-2/9924	STUD, C01M-066	Nos	1	1					
2557	T-2/9924A	CAP NUT, C01M-067	Nos	1	1					
2558	T-2/9925	BOLT, C01M-068	Nos	1	1					
2559	T-2/9925A	BOLT, C01M-069	Nos	1	1					
2560	T-2/9926	BOLT, C01M-070	Nos	1	1					
2561	T-2/9926A	BOLT, C01M-071	Nos	1	1					
2562	T-2/9927	BOLT, C01M-072	Nos	1	1					
2563	T-2/9927A	BOLT, C01M-073	Nos	1	1					
2564	T-2/9928	STUD, C01M-074	Nos	1	1					
2565	T-2/9928A	CAP NUT, C01M-075	Nos	1	1					
2566	T-2/9929	STUD, C01M-076	Nos	1	1					
2567	T-2/9929A	CAP NUT, C01M-077	Nos	1	1					
2568	T-2/9930	STUD, C01M-078	Nos	1	1					
2569	T-2/9930A	BOLT, C01M-079	Nos	1	1					
2570	T-2/9931	BOLT, C01M-080	Nos	1	1					
2571	T-2/9931A	BOLT, C01M-081	Nos	1	1					
2572	T-2/9932	CAP NUT, C01M-082	Nos	1	1					
2573	T-2/9932A	STUD, C01M-083	Nos	1	1					
2574	T-2/9933	BOLT, C01M-084	Nos	1	1					
2575	T-2/9933A	CAP NUT, C01M-085	Nos	1	1					
2576	T-2/9936	GLAND PACKING RING, C01M-010	Nos	1	1					
2577	T-2/9936A	GLAND PACKING , C01M-011	Nos	4	4					
2578	T-2/9937	GLAND PACKING , C01M-012	Set	4	4					
2579	T-2/9937A	GLAND PACKING , C01M-018	Set	1	1					
2580	T-2/9938	GLAND PACKING , C01M-019	Set	4	4					
2581	T-2/9938A	GLAND PACKING , C01M-023	Nos	8	8					
2582	T-2/9939	GLAND PACKING SEGMENT RING, C01M-024	Set	3	3					
2583	T-2/9940	SCREW RING , C01R-465	Nos	2	2					
2584	T-2/9940A	SCREW RING , C01R-466	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2585	T-2/9941	SCREW RING , C01R-467	Nos	1	1					
2586	T-2/9941A	COUPLING BOLT, C01R-211	Nos	16	16					
2587	T-2/9942	COUPLING BOLT, C01R-212	Nos	16	16					
2588	T-2/9942A	COUPLING BOLT, C01R-213	Nos	16	16					
2589	T-2/9943	COUPLING BOLT, C01R-214	Nos	16	16					
2590	T-2/9943A	COUPLING BOLT, C01R-215	Nos	18	18					
2591	T-2/9944	COUPLING BOLT, C01R-216	Nos	18	18					
2592	T-2/9944A	THERMO COUPLE, C01R-001	Nos	1	1					
2593	T-2/9945	THERMO COUPLE, C01R-002	Nos	1	1					
2594	T-2/9945A	THERMO COUPLE, C01R-003	Nos	1	1					
2595	T-2/9946	THERMO COUPLE, C01R-004	Nos	1	1					
2596	T-2/9946A	THERMO COUPLE, C01R-005	Nos	1	1					
2597	T-2/9947	THERMO COUPLE, C01R-006	Nos	1	1					
2598	T-2/9947A	THERMO COUPLE, C01R-007	Nos	1	1					
2599	T-2/9948	THERMO COUPLE, C01R-008	Nos	1	1					
2600	T-2/9948A	THERMO METER, C01R-009	Nos	2	2					
2601	T-2/9949	THERMO METER, C01R-010	Nos	1	1					
2602	T-2/9949A	THERMO METER, C01R-011	Nos	2	2					
2603	T-2/9950	LOCK PIN, C01R-155	Nos	1	1					
2604	T-2/9950A	PARALLEL PIN, C01R-156	Nos	1	1					
2605	T-2/9951	PARALLEL PIN, C01R-157	Nos	1	1					
2606	T-2/9952	LOCK PIN, C01R-159	Nos	2	2					
2607	T-2/9952A	PARALLEL PIN, C01R-160	Nos	6	6					
2608	T-2/9953	THERMO COUPLE, D18M-001	Nos	1	1					
2609	T-2/9953A	THERMO COUPLE, D18M-002	Nos	1	1					
2610	T-2/9954	THERMO COUPLE, D18M-003	Nos	1	1					
2611	T-2/9954A	THERMO COUPLE, D18M-004	Nos	1	1					
2612	T-2/9955	THERMO COUPLE, D18M-005	Nos	1	1					
2613	T-2/9955A	THERMO COUPLE, D18M-006	Nos	1	1					
2614	T-2/9956	THERMO COUPLE, D18M-007	Nos	1	1					
2615	T-2/9956A	THERMO COUPLE, D18M-008	Nos	1	1					
2616	T-2/9957	THERMO METER, D18M-009	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
2617	T-2/9958	THERMO METER, D18M-011	Nos	2	2					
2618	T-2/9958A	KEY, C01R-161	Nos	2	2					
2619	T-2/9960	ROCK PIN, C01R-164	Nos	2	2					
2620	T-2/9960A	LINER, C01R-165	Nos	4	4					
2621	T-2/9961	LINER, C01R-166	Nos	4	4					
2622	T-2/9961A	PARALLEL KEY, C01R-167	Nos	4	4					
2623	T-2/9962	CENTRING KEY, C01R-168	Nos	4	4					
2624	T-2/9962A	PARALLEL PIN, C01R-169	Nos	2	2					
2625	T-2/9963	PARALLEL PIN, C01R-170	Nos	2	2					
2626	T-2/9963A	KEY, C01R-171	Nos	2	2					
2627	T-2/9964	LINER, C01R-172	Nos	8	8					
2628	T-2/9964A	SPARE, CO1R-173	Nos	8	8					
2629	T-2/9965	SPACERE, CO1R-174	Nos	8	8					
2630	T-2/9966A	SPACERE, CO1R-177	Nos	8	8					
2631	T-2/9967	SPACERE, CO1R-178	Nos	8	8					
2632	T-2/9967A	SPACERE, CO1R-179	Nos	16	16					
2633	T-2/9968	SPACERE, CO1R-180	Nos	8	8					
2634	T-2/9968A	TAPER PIN, CO1R-181	Nos	4	4					
2635	T-2/9969	TAPER PIN, CO1R-182	Nos	28	28					
2636	T-2/9969A	PARALLEL KEY, CO1R-183	Nos	4	4					
2637	T-2/9970	KEY, CO1R-184	Nos	4	4					
2638	T-2/9970A	LINER, CO1R-185	Nos	4	4					
2639	T-2/9971	LINER, CO1R-186	Nos	4	4					
2640	T-2/9971A	PARALLEL KEY, CO1R-187	Nos	4	4					
2641	T-2/9972	CENTRING KEY, CO1R-188	Nos	4	4					
2642	T-2/9972A	SET SCREW, CO1R-189	Nos	4	4					
2643	T-2/9973	SET SCREW, CO1R-190	Nos	4	4					
2644	T-2/9973A	TOPER PIN, CO1R-191	Nos	4	4					
2645	T-2/9974	TOPER PIN, CO1R-192	Nos	4	4					
2646	T-2/9974A	TOPER PIN, CO1R-193	Nos	6	6					
2647	T-2/9975	PARALLEL PIN, , CO1R-194	Nos	2	2					
2648	T-2/9975A	PARALLEL PIN, , CO1R-195	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
2649	T-2/9978	PARALLEL PIN, , CO1R-200	Nos	12	12					
2650	T-2/9978A	TAPER PIN WITH THREADED END, C01R-201	Nos	4	4					
2651	T-2/9979	PARALLEL PIN, , CO1R-202	Nos	2	2					
2652	T-2/9979A	PARALLEL PIN, , CO1R-203	Nos	2	2					
2653	T-2/9980	PARALLEL PIN, , CO1R-204	Nos	2	2					
2654	T-2/9981	PARALLEL PIN, , CO1R-206	Nos	2	2					
2655	T-2/9981A	SLIDING PLATE, C01R-207	Nos	8	8					
2656	T-2/9982	SLIDING PLATE, C01R-208	Nos	8	8					
2657	T-2/9982A	CENTRING BOLT, C01R-209	Nos	4	4					
2658	T-2/9983	CENTRING BOLT, C01R-210	Nos	4	4					
2659	T-2/9986A	PLAIN WASHER, CO1R-363	Nos	4	4					
2660	T-2/9987	SPRING WASHER, CO1R-364	Nos	12	12					
2661	T-2/9987A	CLAW WASHER, CO1R-365	Nos	16	16					
2662	T-2/9988	TONGUED WASHER, CO1R-366	Nos	4	4					
2663	T-2/9988A	TONGUED WASHER, CO1R-367	Nos	6	6					
2664	T-2/9989	TONGUED WASHER, CO1R-368	Nos	2	2					
2665	T-2/9989A	TONGUED WASHER, CO1R-369	Nos	4	4					
2666	T-2/9990	TONGUED WASHER, CO1R-370	Nos	6	6					
2667	T-2/990A	TONGUED WASHER, CO1R-371	Nos	4	4					
2668	T-2/9991	CLAW WASHER, CO1R-372	Nos	4	4					
2669	T-2/9991A	SPRING WASHER, CO1R-373	Nos	12	12					
2670	T-2/9992	CLAW WASHER, CO1R-374	Nos	30	30					
2671	T-2/9992A	CLAW WASHER, CO1R-375	Nos	4	4					
2672	T-2/9993	CLAW WASHER, CO1R-376	Nos	1	1					
2673	T-2/9993A	TONGUED WASHER, CO1R-377	Nos	8	8					
2674	T-2/9994	TONGUED WASHER, CO1R-378	Nos	4	4					
2675	T-2/9994A	CLAW WASHER, CO1R-379	Nos	16	16					
2676	T-2/9995	SPRING WASHER, CO1R-380	Nos	24	24					
2677	T-2/9995A	CLAW WASHER, CO1R-381	Nos	4	4					
2678	T-2/9996	CLAW WASHER, CO1R-382	Nos	1	1					
2679	T-2/9996A	TONGUED WASHER, CO1R-383	Nos	8	8					
2680	T-2/9997	TONGUED WASHER, CO1R-384	Nos	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2681	T-2/9997A	CLAW WASHER, CO1R-385	Nos	16	16					
2682	T-2/9998	SPRING WASHER, CO1R-386	Nos	24	24					
2683	T-2/9998A	SPRING WASHER, CO1R-387	Nos	4	4					
2684	T-2/9999	DOUBLE LOCK WASHER, CO1R-388	Nos	1	1					
2685	T-2/9999A	DOUBLE LOCK WASHER, CO1R-389	Nos	1	1					
2686	T-2/10000	PLAIN WASHER, CO1R-390	Nos	4	4					
2687	T-2/10000A	SPRING WASHER, CO1R-391	Nos	2	2					
2688	T-3/10001	DOUBLE LOCK WASHER, CO1R-392	Nos	2	2					
2689	T-3/10002	DOUBLE LOCK WASHER, CO1R-394	Nos	1	1					
2690	T-3/10002A	TONGUED WASHER, CO1R-395	Nos	6	6					
2691	T-3/10003	DOUBLE LOCK WASHER, CO1R-396	Nos	6	6					
2692	T-3/10003A	DOUBLE LOCK WASHER, CO1R-397	Nos	2	2					
2693	T-3/10004	PLAIN WASHER, CO1R-398	Nos	8	8					
2694	T-3/10004A	SPRING WASHER, CO1R-399	Nos	12	12					
2695	T-3/10005	DOUBLE LOCK WASHER, CO1R-400	Nos	2	2					
2696	T-3/10005A	DOUBLE LOCK WASHER, CO1R-401	Nos	3	3					
2697	T-3/10006	PLAIN WASHER, CO1R-402	Nos	4	4					
2698	T-3/10006A	SPRING WASHER, CO1R-403	Nos	2	2					
2699	T-3/10007	TONGUED WASHER, CO1R-404	Nos	2	2					
2700	T-3/10007A	DOUBLE LOCK WASHER, CO1R-405	Nos	1	1					
2701	T-3/10008	MACHINE SCREW, CO1R-406	Nos	4	4					
2702	T-3/10008A	MACHINE SCREW, CO1R-407	Nos	4	4					
2703	T-3/10009	MACHINE SCREW, CO1R-408	Nos	2	2					
2704	T-3/10009A	MACHINE SCREW, CO1R-409	Nos	4	4					
2705	T-3/10010	MACHINE SCREW, CO1R-410	Nos	8	8					
2706	T-3/10010A	MACHINE SCREW, CO1R-411	Nos	8	8					
2707	T-3/10011	MACHINE SCREW, CO1R-412	Nos	4	4					
2708	T-3/10012	MACHINE SCREW, CO1R-414	Nos	2	2					
2709	T-3/10014	CYLINDRICAL PIN, CO1R-418	Nos	14	14					
2710	T-3/10014A	CYLINDRICAL PIN, CO1R-419	Nos	14	14					
2711	T-3/10015	RAW MATERIAL, CO1M-090	Nos	1	1					
2712	T-3/10016	RAW MATERIAL, CO1M-092	Nos	1	1					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2713	T-3/10017	RAW MATERIAL, CO1M-094	Nos	1	1					
2714	T-3/10018	RAW MATERIAL, CO1M-096	Nos	1	1					
2715	T-3/10019A	RAW MATERIAL, CO1M-099	Nos	1	1					
2716	T-3/10020	RAW MATERIAL, CO1M-100	Nos	2	2					
2717	T-3/10020A	RAW MATERIAL, CO1M-101	Nos	1	1					
2718	T-3/10021	RAW MATERIAL, CO1M-102	Nos	1	1					
2719	T-3/10021A	RAW MATERIAL, CO1M-103	Nos	1	1					
2720	T-3/10022	RAW MATERIAL, CO1M-104	Nos	1	1					
2721	T-3/10022A	RAW MATERIAL, CO1M-105	Nos	3	3					
2722	T-3/10024	RAW MATERIAL, CO1M-108	Nos	1	1					
2723	T-3/10024A	RAW MATERIAL, CO1M-109	Nos	1	1					
2724	T-3/10025A	RAW MATERIAL, CO1M-111	Nos	2	2					
2725	T-3/10026	RAW MATERIAL, CO1M-112	Nos	1	1					
2726	T-3/10027	RAW MATERIAL, CO1M-114	Nos	2	2					
2727	T-3/10027A	RAW MATERIAL, CO1M-115	Nos	2	2					
2728	T-3/10028	RAW MATERIAL, CO1M-116	Nos	2	2					
2729	T-3/10030	RAW MATERIAL, CO1M-120	Nos	1	1					
2730	T-3/10030A	RAW MATERIAL, CO1M-121	Nos	1	1					
2731	T-3/10031	RAW MATERIAL, CO1M-122	Nos	1	1					
2732	T-3/10031A	RAW MATERIAL, CO1M-123	Nos	7	7					
2733	T-3/10032	RAW MATERIAL, CO1M-124	Nos	4	4					
2734	T-3/10032A	RAW MATERIAL, CO1M-125	Nos	10	10					
2735	T-3/10033	RAW MATERIAL, CO1M-126	Nos	8	8					
2736	T-3/10033A	RAW MATERIAL, CO1M-127	Nos	3	3					
2737	T-3/10034	RAW MATERIAL, CO1M-128	Nos	1	1					
2738	T-3/10034A	RAW MATERIAL, CO1M-129	Nos	8	8					
2739	T-3/10035	RAW MATERIAL, CO1M-130	Nos	17	17					
2740	T-3/10035A	RAW MATERIAL, CO1M-131	Nos	10	10					
2741	T-3/10036	RAW MATERIAL, CO1M-132	Nos	3	3					
2742	T-3/10036A	RAW MATERIAL, CO1M-133	Nos	3	3					
2743	T-3/10037A	RAW MATERIAL, CO1M-135	Nos	1	1					
2744	T-3/10038A	RAW MATERIAL, CO1M-137	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2745	T-3/10039	RAW MATERIAL, CO1M-138	Nos	2	2					
2746	T-3/10039A	RAW MATERIAL, CO1M-139	Nos	2	2					
2747	T-3/10040	THRUST PAD, CO1M-005	Nos	14	14					
2748	T-3/10040A	THRUST PAD, CO1M-006	Nos	2	2					
2749	T-3/10041	THRUST PAD, CO1M-007	Nos	14	14					
2750	T-3/10041A	THRUST , CO1M-008	Nos	2	2					
2751	T-3/10042	BEARING, CO1M-004	Nos	1	1					
2752	T-3/10042A	BEARING, CO1M-003	Nos	1	1					
2753	T-3/10043	GLAND PACKING, CO2M-600	Nos	26	26					
2754	T-3/10043A	GASKET, CO2M-601	Nos	4	4					
2755	T-3/10044	GLAND PACKING, CO2M-602	Nos	59	59					
2756	T-3/10044A	GASKET, CO2M-603	Nos	59	59					
2757	T-3/10045	GLAND PACKING, CO2M-604	Nos	45	45					
2758	T-3/10045A	GASKET, CO2M-605	Nos	9	9					
2759	T-3/10046	GLAND PACKING, CO2M-606	Nos	5	5					
2760	T-3/10046A	GLAND PACKING, CO2M-607	Nos	1	1					
2761	T-3/10047	GLAND PACKING, CO2M-608	Nos	8	8					
2762	T-3/10047A	GLAND PACKING, CO2M-609	Nos	26	26					
2763	T-3/10048	GASKET, CO2M-610	Nos	3	3					
2764	T-3/10049	GLAND PACKING, CO2M-612	Nos	1	1					
2765	T-3/10049A	GASKET, CO2M-613	Nos	1	1					
2766	T-3/10050	GASKET, CO2M-614	Nos	1	1					
2767	T-3/10050A	GASKET, CO2M-615	Nos	1	1					
2768	T-3/10051	GASKET, CO2M-616	Nos	1	1					
2769	T-3/10051A	GASKET, CO2M-617	Nos	1	1					
2770	T-3/10052	GLAND PACKING, CO2M-618	Nos	80	80					
2771	T-3/10052A	GASKET, CO2M-619	Nos	5	5					
2772	T-3/10053	GLAND PACKING, CO2M-620	Nos	12	12					
2773	T-3/10053A	GASKET, CO2M-621	Nos	2	2					
2774	T-3/10054	GLAND PACKING, CO2M-622	Nos	30	30					
2775	T-3/10054A	GASKET, CO2M-623	Nos	5	5					
2776	T-3/10055	GLAND PACKING, CO2M-624	Nos	32	32					

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1	2	3	4	5	6	7	8	10	11	12
2777	T-3/10055A	GLAND PACKING, CO2M-625	Nos	2	2					
2778	T-3/10056	GASKET, CO2M-626	Nos	2	2					
2779	T-3/10056A	GLAND PACKING, CO2M-627	Nos	1	1					
2780	T-3/10057	GASKET, CO2M-628	Nos	1	1					
2781	T-3/10057A	GASKET, CO2M-629	Nos	4	4					
2782	T-3/10058	GLAND PACKING, CO2M-630	Nos	32	32					
2783	T-3/10059	GASKET, CO2M-632	Nos	1	1					
2784	T-3/10059A	GLAND PACKING, CO2M-633	Nos	1	1					
2785	T-3/10060	GLAND PACKING, CO2M-634	Nos	1	1					
2786	T-3/10060A	GASKET, CO2M-635	Nos	1	1					
2787	T-3/10061	GASKET, CO2M-636	Nos	1	1					
2788	T-3/10061A	GLAND PACKING, CO2M-637	Nos	1	1					
2789	T-3/10062	GLAND PACKING, CO2M-638	Nos	5	5					
2790	T-3/10062A	O" RING, CO2M639	Nos	1	1					
2791	T-3/10063	O" RING, COM2640	Nos	1	1					
2792	T-3/10063A	O" RING, COM2641	Nos	1	1					
2793	T-3/10064	O" RING, COM2642	Nos	1	1					
2794	T-3/10064A	GASKET, COM2643	Nos	1	1					
2795	T-3/10065	GLAND PACKING, CO2M-644	Nos	1	1					
2796	T-3/10065A	O" RING, COM-2645	Nos	3	3					
2797	T-3/10066	GASKET, COM2646	Nos	2	2					
2798	T-3/10066A	GLAND PACKING, CO2M-647	Nos	2	2					
2799	T-3/10067	GASKET, COM2648	Nos	1	1					
2800	T-3/10067A	GLOBE VALVE, 40A, CO2M-649	Nos	1	1					
2801	T-3/10068	GLOBE VALVE, 15A, CO2M-650	Nos	2	2					
2802	T-3/10069A	GLOBE VALVE, 15A, CO2M-653	Nos	2	2					
2803	T-3/10070	GLOBE VALVE, 15A, CO2M-654	Nos	2	2					
2804	T-3/10070A	CHECK VALVE, 15A, CO2M-655	Nos	2	2					
2805	T-3/10071	GLOBE VALVE, 25A, CO2M-656	Nos	2	2					
2806	T-3/10071A	GLOBE VALVE, 20A, CO2M-657	Nos	2	2					
2807	T-3/10072	GLOBE VALVE, 25A, CO2M-658	Nos	2	2					
2808	T-3/10072A	GLOBE VALVE, 20A, CO2M-659	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
2809	T-3/10073	GLOBE VALVE, 25A, CO2M-660	Nos	2	2					
2810	T-3/10073A	GLOBE VALVE, 15A, CO2M-661	Nos	2	2					
2811	T-3/10075	GLASS, 94, C01R-013	Nos	3	3					
2812	T-3/10075A	GLASS, 114, C01R-014	Nos	3	3					
2813	T-3/10076	SHAFT, C01R-223	Nos	1	1					
2814	T-3/10077	SHAFT, C01R-225	Nos	2	2					
2815	T-3/10077A	SHAFT, C01R-226	Nos	1	1					
2816	T-3/10078A	WEAR RING, C01R-228	Nos	1	1					
2817	T-3/10079A	O" RING, C01R-468	Nos	1	1					
2818	T-3/10080	PACKING, C01R-489	Nos	10	10					
2819	T-3/10088	GASKET, 10K-150-15A, C01R-485	Nos	46	46					
2820	T-3/10093	GASKET, 10K-300A C01R-495	Nos	1	1					
2821	T-3/10093A	GASKET, 10K-400A C01R-496	Nos	1	1					
2822	T-3/10094	GASKET, 10K-15A C01R-497	Nos	3	3					
2823	T-3/10098	GASKET, C01R-505	Nos	1	1					
2824	T-3/10099A	RING GASKET, C01R-508	Nos	2	2					
2825	T-4/10102	BEARING, C01M-002	Nos	1	1					
2826	T-4/10102A	LUBRINTH FIN, C01M-013	Nos	101	101					
2827	T-4/10103	LUBRINTH FIN, C01M-014	Nos	32	32					
2828	T-4/10103A	LUBRINTH FIN, C01M-015	Nos	42	42					
2829	T-4/10104	LUBRINTH FIN, C01M-016	Nos	10	10					
2830	T-4/10104A	CALKING WIRE, C01M-017	Nos	1	1					
2831	T-4/10105	GLAND PACKING RING, C01M-020	Nos	1	1					
2832	T-4/10105A	GLAND PACKING RING, C01M-021	Nos	1	1					
2833	T-4/10106	GLAND PACKING RING, C01M-022	Nos	1	1					
2834	T-4/10106A	LUBRINTH FIN, C01M-025	Nos	37	37					
2835	T-4/10107	LUBRINTH FIN, C01M-026	Nos	5	5					
2836	T-4/10107A	LUBRINTH FIN, C01M-027	Nos	74	74					
2837	T-4/10108	LUBRINTH FIN, C01M-028	Nos	7	7					
2838	T-4/10108A	LUBRINTH FIN, C01M-029	Nos	38	38					
2839	T-4/10109	CALKING WIRE, CO1M-030	Nos	1	1					
2840	T-4/10109A	LUBRINTH FIN, C01M-031	Nos	384	384					

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1	2	3	4	5	6	7	8	10	11	12
2841	T-4/10110	LUBRINTH FIN, C01M-032	Nos	184	184					
2842	T-4/10110A	CALKING WIRE, CO1M-033	Nos	2	2					
2843	T-4/10111	CALKING WIRE, CO1M-034	Nos	2	2					
2844	T-4/10111A	BELLOWS, C01M-160.	Nos	1	1					
2845	T-4/10112	GLAND PACKING RING, CO1M-009	Nos	1	1					
2846	T-4/10112A	ATMOSPHERIC RELIEF DIAPHRAGM, CO1M-035	Nos	5	5					
2847	T-4/10113	PACKING, CO1M-154	Nos	4	4					
2848	T-4/10114A	BEARING, CO1M-157	Nos	4	4					
2849	T-4/10115A	PACKING, CO1M-159	Nos	12	12					
2850	T-4/10116	PACKING, DO8M-001	Nos	4	4					
2851	T-4/10116A	PACKING, DO8M-002	Nos	3	3					
2852	T-4/10117	GAUGE GLASS, DO8M-003	Nos	22	22					
2853	T-4/10117A	SEAL FIN, CO1R-015	Nos	40	40					
2854	T-4/10118	SEAL FIN, CO1R-016	Nos	2	2					
2855	T-4/10118A	SEAL FIN, CO1R-017	Nos	19	19					
2856	T-4/10119	SEAL FIN, CO1R-018	Nos	2	2					
2857	T-4/10119A	SEAL FIN, CO1R-019	Nos	2	2					
2858	T-4/10120	SEAL FIN, CO1R-020	Nos	2	2					
2859	T-4/10120A	SEAL FIN, CO1R-021	Nos	2	2					
2860	T-4/10121	SEAL FIN, CO1R-022	Nos	2	2					
2861	T-4/10121A	SEAL FIN, CO1R-023	Nos	2	2					
2862	T-4/10122	SEAL FIN, CO1R-024	Nos	2	2					
2863	T-4/10122A	SEAL FIN, CO1R-025	Nos	2	2					
2864	T-4/10123	SEAL FIN, CO1R-026	Nos	1	1					
2865	T-4/10123A	SEAL FIN, CO1R-027	Nos	2	2					
2866	T-4/10124	SEAL FIN, CO1R-028	Nos	1	1					
2867	T-4/10124A	SEAL FIN, CO1R-029	Nos	2	2					
2868	T-4/10125	SEAL FIN, CO1R-030	Nos	1	1					
2869	T-4/10125A	SEAL FIN, CO1R-031	Nos	2	2					
2870	T-4/10126	SEAL FIN, CO1R-032	Nos	1	1					
2871	T-4/10126A	SEAL FIN, CO1R-033	Nos	2	2					
2872	T-4/10127	SEAL FIN, CO1R-034	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2873	T-4/10127A	SEAL FIN, CO1R-035	Nos	2	2					
2874	T-4/10128	SEAL FIN, CO1R-036	Nos	1	1					
2875	T-4/10128A	SEAL FIN, CO1R-037	Nos	2	2					
2876	T-4/10129	SEAL FIN, CO1R-038	Nos	1	1					
2877	T-4/10129A	SEAL FIN, CO1R-039	Nos	2	2					
2878	T-4/10130	SEAL FIN, CO1R-040	Nos	1	1					
2879	T-4/10130A	SEAL FIN, CO1R-041	Nos	2	2					
2880	T-4/10131	SEAL FIN, CO1R-042	Nos	1	1					
2881	T-4/10131A	SEAL FIN, CO1R-043	Nos	2	2					
2882	T-4/10132	SEAL FIN, CO1R-044	Nos	1	1					
2883	T-4/10132A	SEAL FIN, CO1R-045	Nos	2	2					
2884	T-4/10133	SEAL FIN, CO1R-046	Nos	1	1					
2885	T-4/10133A	SEAL FIN, CO1R-047	Nos	2	2					
2886	T-4/10134	SEAL FIN, CO1R-048	Nos	1	1					
2887	T-4/10134A	SEAL FIN, CO1R-0149	Nos	2	2					
2888	T-4/10135	SEAL FIN, CO1R-050	Nos	1	1					
2889	T-4/10135A	SEAL FIN, CO1R-051	Nos	2	2					
2890	T-4/10136	SEAL FIN, CO1R-052	Nos	6	6					
2891	T-4/10136A	SEAL FIN, CO1R-053	Nos	52	52					
2892	T-4/10137	SEAL FIN, CO1R-054	Nos	26	26					
2893	T-4/10137A	SEAL FIN, CO1R-055	Nos	12	12					
2894	T-4/10138	SEAL FIN, CO1R-056	Nos	14	14					
2895	T-4/10138A	SEAL FIN, CO1R-057	Nos	4	4					
2896	T-4/10139	SEAL FIN, CO1R-058	Nos	4	4					
2897	T-4/10139A	SEAL FIN, CO1R-059	Nos	4	4					
2898	T-4/10140	SEAL FIN, CO1R-060	Nos	4	4					
2899	T-4/10140A	SEAL FIN, CO1R-061	Nos	4	4					
2900	T-4/10141	SEAL FIN, CO1R-062	Nos	4	4					
2901	T-4/10141A	SEAL FIN, CO1R-063	Nos	4	4					
2902	T-4/10142	SEAL FIN, CO1R-064	Nos	4	4					
2903	T-4/10142A	SEAL FIN, CO1R-065	Nos	4	4					
2904	T-4/10143	SEAL FIN, CO1R-066	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
2905	T-4/10143A	SEAL FIN, CO1R-067	Nos	4	4					
2906	T-4/10144	SEAL FIN, CO1R-068	Nos	2	2					
2907	T-4/10144A	SEAL FIN, CO1R-069	Nos	4	4					
2908	T-4/10145	SEAL FIN, CO1R-070	Nos	2	2					
2909	T-4/10145A	SEAL FIN, CO1R-071	Nos	4	4					
2910	T-4/10146	SEAL FIN, CO1R-072	Nos	2	2					
2911	T-4/10146A	SEAL FIN, CO1R-073	Nos	4	4					
2912	T-4/10147	SEAL FIN, CO1R-074	Nos	2	2					
2913	T-4/10147A	SEAL FIN, CO1R-075	Nos	4	4					
2914	T-4/10148	SEAL FIN, CO1R-076	Nos	2	2					
2915	T-4/10148A	SEAL FIN, CO1R-077	Nos	4	4					
2916	T-4/10149	SEAL FIN, CO1R-078	Nos	2	2					
2917	T-4/10149A	SEAL FIN, CO1R-079	Nos	4	4					
2918	T-4/10150	SEAL FIN, CO1R-080	Nos	2	2					
2919	T-4/10150A	SEAL FIN, CO1R-081	Nos	4	4					
2920	T-4/10151	SEAL FIN, CO1R-082	Nos	2	2					
2921	T-4/10151A	SEAL FIN, CO1R-083	Nos	4	4					
2922	T-4/10152	SEAL FIN, CO1R-084	Nos	2	2					
2923	T-4/10152A	SEAL FIN, CO1R-085	Nos	4	4					
2924	T-4/10153	SEAL FIN, CO1R-086	Nos	2	2					
2925	T-4/10153A	SEAL FIN, CO1R-087	Nos	4	4					
2926	T-4/10154	SEAL FIN, CO1R-088	Nos	4	4					
2927	T-4/10154A	SEAL FIN, CO1R-089	Nos	4	4					
2928	T-4/10155	SEAL FIN, CO1R-090	Nos	4	4					
2929	T-4/10155A	SEAL FIN, CO1R-091	Nos	4	4					
2930	T-4/10156	SEAL FIN, CO1R-092	Nos	4	4					
2931	T-4/10156A	SEAL FIN, CO1R-093	Nos	4	4					
2932	T-4/10157	SEAL FIN, CO1R-094	Nos	4	4					
2933	T-4/10157A	SEAL FIN, CO1R-095	Nos	4	4					
2934	T-4/10158	SEAL FIN, CO1R-096	Nos	4	4					
2935	T-4/10158A	SEAL FIN, CO1R-097	Nos	4	4					
2936	T-4/10159	SEAL FIN, CO1R-098	Nos	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2937	T-4/10159A	SEAL FIN, CO1R-099	Nos	4	4					
2938	T-4/10160	SEAL FIN, CO1R-100	Nos	4	4					
2939	T-4/10160A	SEAL FIN, CO1R-101	Nos	4	4					
2940	T-4/10161	SEAL FIN, CO1R-102	Nos	4	4					
2941	T-4/10161A	SEAL FIN, CO1R-103	Nos	4	4					
2942	T-4/10162	SEAL FIN, CO1R-104	Nos	4	4					
2943	T-4/10162A	SEAL FIN, CO1R-105	Nos	4	4					
2944	T-4/10163	SEAL FIN, CO1R-106	Nos	4	4					
2945	T-4/10163A	SEAL FIN, CO1R-107	Nos	4	4					
2946	T-4/10164	SEAL FIN, CO1R-108	Nos	4	4					
2947	T-4/10164A	SEAL FIN, CO1R-109	Nos	4	4					
2948	T-4/10165	SEAL FIN, CO1R-110	Nos	4	4					
2949	T-4/10165A	SEAL FIN, CO1R-111	Nos	4	4					
2950	T-4/10166	SEAL FIN, CO1R-112	Nos	4	4					
2951	T-4/10166A	SEAL FIN, CO1R-113	Nos	4	4					
2952	T-4/10167	SEAL FIN, CO1R-114	Nos	4	4					
2953	T-4/10167A	SEAL FIN, CO1R-115	Nos	4	4					
2954	T-4/10168	SEAL FIN, CO1R-116	Nos	4	4					
2955	T-4/10168A	SEAL FIN, CO1R-117	Nos	4	4					
2956	T-4/10169	SEAL FIN, CO1R-118	Nos	4	4					
2957	T-4/10169A	SEAL FIN, CO1R-119	Nos	4	4					
2958	T-4/10170	SEAL FIN, CO1R-120	Nos	4	4					
2959	T-4/10170A	SEAL FIN, CO1R-121	Nos	4	4					
2960	T-4/10171	SEAL FIN, CO1R-122	Nos	4	4					
2961	T-4/10171A	SEAL FIN, CO1R-123	Nos	4	4					
2962	T-4/10172	SEAL FIN, CO1R-124	Nos	4	4					
2963	T-4/10172A	SEAL FIN, CO1R-125	Nos	4	4					
2964	T-4/10173	SEAL FIN, CO1R-126	Nos	4	4					
2965	T-4/10173A	SEAL FIN, CO1R-127	Nos	4	4					
2966	T-4/10174	SEAL FIN, CO1R-128	Nos	4	4					
2967	T-4/10174A	SEAL FIN, CO1R-129	Nos	4	4					
2968	T-4/10175	SEAL FIN, CO1R-130	Nos	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2969	T-4/10175A	SEAL FIN, CO1R-131	Nos	28	28					
2970	T-4/10176	SEAL FIN, CO1R-132	Nos	28	28					
2971	T-4/10176A	SEAL FIN, CO1R-133	Nos	32	32					
2972	T-4/10177	SEAL FIN, CO1R-134	Nos	36	36					
2973	T-4/10177A	COCKING WIRE, CO1R-135	Nos	1	1					
2974	T-4/10178	COCKING WIRE, CO1R-136	Nos	1	1					
2975	T-4/10178A	COCKING WIRE, CO1R-137	Nos	1	1					
2976	T-4/10179	SEAL RING, CO1R-138	Nos	1	1					
2977	T-4/101181	SEAL STRIP, CO1R-147	Nos	20	20					
2978	T-4/10182A	SEAL STRIP, CO1R-150	Nos	20	20					
2979	T-4/10183	SEAL STRIP, CO1R-151	Nos	20	20					
2980	T-4/10183A	SEAL STRIP, CO1R-152	Nos	20	20					
2981	T-4/10184	SEAL STRIP, CO1R-153	Nos	20	20					
2982	T-4/10184A	SEAL STRIP, CO1R-154	Nos	20	20					
2983	T-4/10185	CLAW WASHER, CO1R-420	Nos	2	2					
2984	T-4/10185A	PLAIN WASHER, CO1R-421	Nos	2	2					
2985	T-4/10186	PLAIN WASHER, CO1R-422	Nos	4	4					
2986	T-4/10186A	TONGUED WASHER, CO1R-423	Nos	4	4					
2987	T-4/10187	TONGUED WASHER, CO1R-424	Nos	12	12					
2988	T-4/10187A	PLAIN WASHER, CO1R-425	Nos	28	28					
2989	T-4/10188	TONGUED WASHER, CO1R-426	Nos	4	4					
2990	T-4/10188A	TONGUED WASHER, CO1R-427	Nos	32	32					
2991	T-4/10189	DOUBLE LOCK WASHER, CO1R-428	Nos	4	4					
2992	T-4/10189A	CLAW WASHER, CO1R-429	Nos	170	170					
2993	T-4/10190	CLAW WASHER, CO1R-430	Nos	30	30					
2994	T-4/10190A	CLAW WASHER, CO1R-431	Nos	8	8					
2995	T-4/10191	DOUBLE LOCK WASHER, CO1R-432	Nos	6	6					
2996	T-4/10191A	CLAW WASHER, CO1R-433	Nos	20	20					
2997	T-4/10192	TONGUED WASHER, CO1R-434	Nos	8	8					
2998	T-4/10192A	SET SCREW, CO1R-435	Nos	2	2					
2999	T-4/10193	SET SCREW, CO1R-436	Nos	59	59					
3000	T-4/10196A	SET SCREW, CO1R-443	Nos	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3001	T-4/10197A	MACHINE SCREW, CO1R-445	Nos	48	48					
3002	T-4/10198	MACHINE SCREW, CO1R-446	Nos	8	8					
3003	T-4/10198A	RING GASKET, CO1R-447	Nos	1	1					
3004	T-4/10199	RING GASKET, CO1R-448	Nos	1	1					
3005	T-4/10199A	RING GASKET, CO1R-449	Nos	2	2					
3006	T-4/10200	SPIRAL WOUND GASKET, CO1R-450	Nos	1	1					
3007	T-4/10200A	SPIRAL WOUND GASKET, CO1R-451	Nos	4	4					
3008	T-5/11001	SPIRAL WOUND GASKET, CO1R-452	Nos	1	1					
3009	T-5/11002A	SPIRAL WOUND GASKET, CO1R-455	Nos	2	2					
3010	T-5/11003	PACKING, CO1R-456	Nos	4	4					
3011	T-5/11003A	SHEET GASKET, CO1R-457	Nos	2	2					
3012	T-5/11005	SHEET GASKET, CO1R-460	Nos	8	8					
3013	T-5/11005A	SHEET GASKET, CO1R-461	Nos	2	2					
3014	T-5/11006	SHEET GASKET, CO1R-462	Nos	2	2					
3015	T-5/11006A	PACKING, CO1R-463	Nos	4	4					
3016	T-5/11007	GASKET, DO8R-001	Nos	4	4					
3017	T-5/11007A	GASKET, DO8R-002	Nos	4	4					
3018	T-5/11008	BEARING, CO1M-001	Nos	1	1					
3019	T-5/11008A	DISC SPRING, CO1M-149	Set	1	1					
3020	T-5/11010A	VALVE SEAT, CO1M-143	Nos	2	2					
3021	T-5/11011	STEAM TIGHT RING, CO1M-144	Nos	1	1					
3022	T-5/11013	BUSH, CO1M-148	Nos	1	1					
3023	T-5/11013A	STEAM TIGHT RING, CO1M-150	Nos	8	8					
3024	T-5/11014A	GRAPHITE PACKING, CO1M-152	Nos	17	17					
3025	T-5/11015	ASBOSTOS PACKING, CO1M-153	Nos	2	2					
3026	T-5/11015A	THRUST BEARING, C03M-100.	Nos	1	1					
3027	T-5/11016	COIL SPRING, C03M-101	Nos	1	1					
3028	T-5/11016A	PILOT VALVE, C03M-102	Nos	1	1					
3029	T-5/11017	PRESSURE SWITCH, C03M-103	Nos	1	1					
3030	T-5/11017A	LIMIT SWITCH, C03M-104	Nos	1	1					
3031	T-5/11018	LIMIT SWITCH, C03M-105	Nos	1	1					
3032	T-5/11018A	BEARING, 6202 ZZ, FO2M-250.	Nos	8	8					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3033	T-5/11019	BEARING, 6202 DU, FO2M-251	Nos	1	1					
3034	T-5/11019A	BEARING, 6201 ZZ, FO2M-252	Nos	4	4					
3035	T-5/11020A	BEARING, 6201 ZZ, FO2M-254	Nos	4	4					
3036	T-5/11021A	SEAL RING, CO1R-141	Nos	4	4					
3037	T-5/11022	SEAL RING, CO1R-144	Nos	2	2					
3038	T-5/11022A	SEAL RING, CO1R-145	Nos	1	1					
3039	T-5/11023	SEAL RING, CO1R-146	Nos	1	1					
3040	T-5/11023A	GEAR COUPLING, CO1R-220	Nos	1	1					
3041	T-5/11024	GLAND BUSH, CO1R-258	Nos	1	1					
3042	T-5/11024A	SCREW BUSH, CO1R-262	Nos	1	1					
3043	T-5/11025	GUIDE BUSH, CO1R-263.	Nos	1	1					
3044	T-5/11025A	BUSH, CO1R-264.	Nos	1	1					
3045	T-5/11026	PIN, 18X19, CO1R-265	Nos	4	4					
3046	T-5/11026A	VALVE CONE, CO1R-273	Nos	1	1					
3047	T-5/11027	BUSH, CO1R-274	Nos	1	1					
3048	T-5/11027A	PIN, 12X29, CO1R-275	Nos	3	3					
3049	T-5/11028	SCREW BUSH, CO1R-276	Nos	1	1					
3050	T-5/11028A	LOCKING BOLT, CO1R-278	Nos	1	1					
3051	T-5/11029	BUSH, CO1R-324	Nos	1	1					
3052	T-5/11032	SOLENOID VALVE , CO1R-230	Nos	1	1					
3053	T-5/11032A	GEAR ASSEMBLY, CO1R-244.	Nos	1	1					
3054	T-5/11033	MOTOR, CO1R-245	Nos	1	1					
3055	T-5/11033A	GEAR ASSEMBLY, CO1R-246	Nos	1	1					
3056	T-5/11034	MOTOR, CO1R-247	Nos	1	1					
3057	T-5/11034A	SOLENOID TRIP DEVICE, CO1R-249	Nos	1	1					
3058	T-5/11037	GLAND BUSH, CO1R-254	Nos	1	1					
3059	T-5/11037A	VALVE STEAM, CO1R-255,	Nos	1	1					
3060	T-5/11038	CAP NUT, CO1R-256	Nos	1	1					
3061	T-5/11038A	TAPPER PIN, CO1R-257	Nos	1	1					
3062	T-5/11039	GRAPHITE PACKING, CO1R-259	Nos	17	17					
3063	T-5/11039A	ASBOSTOS PACKING, CO1R-260	Nos	2	2					
3064	T-5/11040	VALVE CONE, CO1R-261	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3065	T-5/11040A	LOCKING PLATE, CO1R-266	Nos	2	2					
3066	T-5/11041	BOLT M, 24X62, CO1R-267	Nos	8	8					
3067	T-5/11041A	SCREW RING, CO1R-268	Nos	1	1					
3068	T-5/11042A	LOCKING PIECE, CO1R-270	Nos	1	1					
3069	T-5/11043	LOCKING SCREW, CO1R-271	Nos	3	3					
3070	T-5/11044	LOCKING SCREW, CO1R-277	Nos	3	3					
3071	T-5/11044A	LOCKING PLATE, CO1R-279	Nos	1	1					
3072	T-5/11045	LOCKING PLATE, CO1R-280	Nos	1	1					
3073	T-5/11045A	LOCKING PLATE, CO1R-281	Nos	1	1					
3074	T-5/11046	SREW RING, CO1R-282	Nos	1	1					
3075	T-5/11046A	GRAPHITE PACKING, CO1R-283	Nos	17	17					
3076	T-5/11047	ASBOSTOS PACKING, CO1R-284	Nos	2	2					
3077	T-5/11047A	GOVERNOR BELLOWS, CO1R-231	Nos	1	1					
3078	T-5/11048	FOLLOW UP PISTON, CO1R-232	Nos	2	2					
3079	T-5/11048A	MOVING COIL, CO1R-233	Nos	1	1					
3080	T-5/11049	FOLLOW UP PISTON, CO1R-234	Nos	1	1					
3081	T-5/11049A	FOLLOW UP PISTON, CO1R-235	Nos	1	1					
3082	T-5/11050	FOLLOW UP PISTON, CO1R-236	Nos	1	1					
3083	T-5/11051	FRICTION DISC, CO1R-238	Nos	6	6					
3084	T-5/11051A	FRICTION DISC, CO1R-239	Nos	6	6					
3085	T-5/11052	FRICTION DISC, CO1R-240	Nos	2	2					
3086	T-5/11052A	FRICTION DISC, CO1R-241	Nos	6	6					
3087	T-5/11053	FRICTION DISC, CO1R-242	Nos	6	6					
3088	T-5/11053A	FRICTION DISC, CO1R-243	Nos	2	2					
3089	T-5/11054	COIL SPRING, CO1R-248	Nos	1	1					
3090	T-5/11061	GASKET, CO1R-298	Nos	1	1					
3091	T-5/11061A	GASKET, CO1R-299	Nos	1	1					
3092	T-5/11062	GASKET, CO1R-300	Nos	1	1					
3093	T-5/11063	GASKET, CO1R-302	Nos	2	2					
3094	T-5/11068A	DIAPGRAGM VALVE, 20A	Nos	13	13					
3095	T-5/11069	DIAPGRAGM VALVE, 15A	Nos	16	16					
3096	T-5/11069A	THERMO METER, 0-100C'	Nos	30	30					

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1	2	3	4	5	6	7	8	10	11	12
3097	T-5/11070	THERMO METER, 0-200C'	Nos	7	7					
3098	T-5/11070A	GASKET FOR ABSORBER,SIZE=1276X343X5m,	Nos	12	12					
3099	T-5/11071	GASKET FOR CONDENSER ,SIZE=362X407X5m.	Nos	7	7					
3100	T-5/11071A	GASKET FOR EVAPORATOR ,SIZE=775X400X5m	Nos	12	12					
3101	T-5/11072	GASKET FOR GENERATOR ,SIZE= 673X241X5m	Nos	12	12					
3102	T-5/11072A	GASKET FOR PASS BUFFEL ,SIZE=	Nos	15	15					
3103	T-5/11073	O" RING, 39.5X4m, V-40	Nos	16	16					
3104	T-5/11073A	O" RING, 43.7X3.5m, P-44	Nos	16	16					
3105	T-5/11074	O" RING, 54.4X3.1m, G-55	Nos	8	8					
3106	T-5/11074A	O" RING, 11.8X2.4m, P-12	Nos	8	8					
3107	T-5/11075	THREE WAY SOLENOID VALVE, 90X195m	Nos	4	4					
3108	T-5/11075A	FUSE, 3A, SIZE= 50X13m	Nos	6	6					
3109	T-5/11076	FUSE, 3A, SIZE= 30X6.4m	Nos	12	12					
3110	T-5/11076A	PILOT LAMP, 18V-2W	Nos	50	50					
3111	T-5/11077	O" RING, 13.8X2.4m, P-14	Nos	8	8					
3112	T-5/11077A	O" RING, 178.8X2.4m, P-18	Nos	8	8					
3113	T-5/11078	O" RING, 25.7X3.5m, P-26	Nos	8	8					
3114	T-5/11078A	ELECTRODE,, OMRON- 207 L	Nos	12	12					
3115	T-5/11079	GASKET, 965X241X5m	Nos	12	12					
3116	T-5/11079A	GASKET, 311X286X5m	Nos	12	12					
3117	T-5/11080	GASKET, 648X299X5m	Nos	12	12					
3118	T-5/11080A	GASKET, 457X216X5m	Nos	12	12					
3119	T-5/11081	GASKET, 257X226X5m	Nos	3	3					
3120	T-5/11081A	GASKET, 128X110X3m	Nos	3	3					
3121	T-5/11082	GASKET, 102X86X1.6m	Nos	8	8					
3122	T-5/11082A	GASKET, 176X154X4m	Nos	1	1					
3123	T-5/11083	GASKET, 99X80X4m	Nos	1	1					
3124	T-5/11083A	GLASS PLATE FOR SIGHT GLASS, IO1R-061	Nos	2	2					
3125	T-6/10201	GASKET, CO1R-313	Nos	1	1					
3126	T-6/10202A	GASKET, CO1R-316	Nos	1	1					
3127	T-6/10204	O" RING C01R-319	Nos	3	3					
3128	T-6/10204A	BUSH, C01R-320	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3129	T-6/10205	BUSH, C01R-321	Nos	1	1					
3130	T-6/10205A	WASHER, C01R-322	Nos	1	1					
3131	T-6/10206	WASHER, C01R-323	Nos	1	1					
3132	T-6/10211A	BUSH, C01R-335	Nos	1	1					
3133	T-6/10221A	3 WAY SOLENOID VALVE, CO1R-335	Nos	1	1					
3134	T-6/10222A	PRESSURE SWITCH, CO1R-012	Nos	1	1					
3135	T-6/10226	PACKING, CO1R-517	Nos	1	1					
3136	T-6/10228A	SET SCREW, CO1R- 522	Nos	1	1					
3137	T-6/10229	SET SCREW, CO1R- 523	Nos	8	8					
3138	T-6/10230A	SPRING LOCK WASHER, CO1R-526	Nos	6	6					
3139	T-6/10231	SPRING LOCK WASHER, CO1R-527	Nos	6	6					
3140	T-6/10231A	SPRING LOCK WASHER, CO1R-528	Nos	10	10					
3141	T-6/10232	SPRING LOCK WASHER, CO1R-529	Nos	4	4					
3142	T-6/10232A	SPRING LOCK WASHER, CO1R-530	Nos	8	8					
3143	T-6/10235	CLAW WASHER, CO1R-535	Nos	1	1					
3144	T-6/10235A	SET SCREW, CO1R-536	Nos	1	1					
3145	T-6/10236	SET SCREW, CO1R-537	Nos	1	1					
3146	T-6/10236A	PLAIN WASHER, CO1R-538	Nos	2	2					
3147	T-6/10238	SPRING WASHER, CO1R-541	Nos	8	8					
3148	T-6/10240	SET SCREW, CO1R-545	Nos	2	2					
3149	T-6/10240A	TANGUED WASHER, CO1R-546	Nos	8	8					
3150	T-6/10241	SPRING WASHER, CO1R-547	Nos	6	6					
3151	T-6/10241A	CLAW WASHER, CO1R-548	Nos	2	2					
3152	T-6/10242	TANGUED WASHER, CO1R-549	Nos	2	2					
3153	T-6/10242A	SPRING WASHER, CO1R-550	Nos	3	3					
3154	T-6/10243	SPRING WASHER, CO1R-551	Nos	2	2					
3155	T-6/10243A	TANGUED WASHER, CO1R-552	Nos	4	4					
3156	T-6/10244	TANGUED WASHER, CO1R-553	Nos	6	6					
3157	T-6/10244A	SET SCREW, COIR-554	Nos	3	3					
3158	T-6/10245	TANGUED WASHER, CO1R-555	Nos	18	18					
3159	T-6/10245A	TANGUED WASHER, CO1R-556	Nos	4	4					
3160	T-6/10246	TANGUED WASHER, CO1R-557	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
3161	T-6/10246A	O" RING CO1R-558	Nos	1	1					
3162	T-6/10248	SET SCREW, COIR-561	Nos	1	1					
3163	T-6/10251	SET SCREW, COIR-567	Nos	3	3					
3164	T-6/10251A	SET SCREW, COIR-568	Nos	1	1					
3165	T-6/10252	SPRING WASHER, CO1R-569	Nos	1	1					
3166	T-6/10252A	SPRING WASHER, CO1R-570	Nos	2	2					
3167	T-6/10253	SPRING WASHER, CO1R-571	Nos	12	12					
3168	T-6/10254	SPRING WASHER, CO1R-572	Nos	2	2					
3169	T-6/10255	SET SCREW, COIR-575	Nos	3	3					
3170	T-6/10255A	SPRING WASHER, CO1R-576	Nos	4	4					
3171	T-6/10256	TANGUED WASHER, CO1R-577	Nos	24	24					
3172	T-6/10256A	TANGUED WASHER, CO1R-578	Nos	4	4					
3173	T-6/10257	INSULATION OIL,@ 200L FOR MAIN T/F	Ltr.	600	600					
3174	T-6/10257A	INSULATION OIL AUX: T/F	Ltr.	600	600					
3175	T-6/10258	INSULATION OIL FOR STARTING T/F	Nos	600	600					
3176	T-6/10258A	FAREED OIL TO FORCED AIR COOLER FOR MAIN T/F.	Nos	1	1					
3177	T-6/10259	LV BUSHING FOR MAIN T/F, GO7M001	Nos	1	1					
3178	T-6/10259A	H V BUSHING FOR T/F, GO7M002	Nos	1	1					
3179	T-6/10260	BURSTING PLATE FOR MAIN TANK FOR MAIN T/F, G07M005	Nos	2	2					
3180	T-6/10260A	BURSTING PLATE FOR MAIN T/F, G07M004	Nos	2	2					
3181	T-6/10261	OIL TEMP: INDICATOR FOR MAIN T/F, G07M-005	Nos	1	1					
3182	T-6/10261A	WINDING TEMP: INDICATOR FOR MAIN T/F, G07M-006	Nos	1	1					
3183	T-6/10262	SILICA GEL 2 KG FOR MAIN T/F: G07M-008	Tin	5	5					
3184	T-6/10262A	GASKET HV CABLE HEAD, G07M-010	Nos	6	6					
3185	T-6/10263	GASKET LV BUSHING, G07M-011	Nos	6	6					
3186	T-6/10263A	GASKET HV BUSHING, G07M-012	Nos	6	6					
3187	T-6/10264	GASKET HV NEUTRAL BUSHING, G07M-013	Nos	6	6					
3188	T-6/10264A	GASKET LV TEERSET FLANGE, G07M-014	Nos	6	6					
3189	T-6/10265	GASKET HV ELEPHANT FLANGE, G07M-015	Nos	6	6					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3190	T-6/10265A	GASKET HV ELEPHANT TUNRET FLANGE, G07M-016	Nos	18	18					
3191	T-6/10266	GASKET HV NEUTRAL FLANGE, G07M-017	Nos	8	8					
3192	T-6/10266A	GASKET PIPING FOR DEHYDRATING BREATRHER, G07M-018	Nos	8	8					
3193	T-6/10267	GASKET BUCHOLZ RELAY ION SICUTER WATER PIPING G07M-019	Nos	12	12					
3194	T-6/10267A	GASKET BUCHOLZ RELAY ION SICUTER WATER PIPING G07M-020	Nos	24	24					
3195	T-6/10268	GASKET AIR RELIAN PIPING, G07M-021	Nos	84	84					
3196	T-6/10268A	GASKET AIR PIPING, G07M-022	Nos	56	56					
3197	T-6/10269	GASKET PRESSURE RELIEF DEVICE, G07M-023	Nos	8	8					
3198	T-6/10269A	GASKET ELEMENT, G07M-024	Nos	2	2					
3199	T-6/10270	GASKET ELEMENT, G07M-025	Nos	2	2					
3200	T-6/10270A	GASKET PRESSURE BULB, G07M-026	Nos	2	2					
3201	T-6/10271	GASKET OIL LEVEL INDICATOR, G07M-027	Nos	2	2					
3202	T-6/10271A	GASKET OIL DRAIN VALVE, G07M-028	Nos	4	4					
3203	T-6/10272	GASKET OIL SATURATE AIR VALVE, G07M-029	Nos	4	4					
3204	T-6/10272A	GASKET VALVE, G07M-030	Nos	12	12					
3205	T-6/10273	GASKET SUDDEN OIL PRESSURE RELAY, G07M-031	Nos	4	4					
3206	T-6/10273A	GASKET BCT TERMINAL, G07M-032	Nos	8	8					
3207	T-6/10274	GASKET ALCOHAL THERMOMETER, G07M-033	Nos	2	2					
3208	T-6/10274A	GASKET OIL DRAIN VALVE, G07M-034	Nos	46	46					
3209	T-6/10275	GASKET OIL PIPING, G07M-035	Nos	20	20					
3210	T-6/10275A	GASKET HARD HOLE G07M-036	Nos	2	2					
3211	T-6/10276	GASKET HARD HOLE G07M-037	Nos	12	12					
3212	T-6/10276A	GASKET HARD HOLE G07M-038	Nos	2	2					
3213	T-6/10277	GASKET HARD HOLE G07M-040	Nos	2	2					
3214	T-6/10277A	GASKET HARD HOLE G07M-041	Nos	4	4					
3215	T-6/10278	GASKET MAIN HOLE G07M-042	Nos	2	2					
3216	T-6/10278A	GASKET MAIN HOLE G07M-043	Nos	6	6					
3217	T-6/10279	GASKET HARD HOLE G07M-044	Nos	4	4					
3218	T-6/10279A	GASKET BURNER RELIEF DEVICE, G07M-039	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
3219	T-6/10280	SPARE BOX FOR MAIN T/F: T-49-V49	Nos	1	1					
3220	T-6/10280A	PANNEL TYPE REDIATOR FOR AUXIALIARY TRANSFORMER, G08M-004	Nos	1	1					
3221	T-6/10281	LV BUSHING, G08M-002	Nos	1	1					
3222	T-6/10281A	BURSTING PLATE, G08M-003	Nos	2	2					
3223	T-6/10282	LV BUSHING, G08M-001	Nos	1	1					
3224	T-6/10282A	OIL TEMP: INDICATOR, G08M-005	Nos	1	1					
3225	T-6/10283	WINDING TEMP: INDICATOR, G08M-006	Nos	1	1					
3226	T-6/10284	GASKET HV BUSHING, G08M-009	Nos	6	6					
3227	T-6/10284A	GASKET LV BUSHING, G08M-010	Nos	6	6					
3228	T-6/10285	GASKET LVN BUSHING, G08M-011	Nos	2	2					
3229	T-6/10285A	GASKET PRESSURE RELIEF DEVICE, G08M-012	Nos	6	6					
3230	T-6/10286	GASKET ELEMENT OTI G08M-013	Nos	2	2					
3231	T-6/10286A	GASKET ELEMENT WTI , G08M-014	Nos	2	2					
3232	T-6/10287	GASKET ALCOHAL THERMOMETER, G08M-015	Nos	2	2					
3233	T-6/10287A	GASKET RESISTANCE BULB, G08M-016	Nos	2	2					
3234	T-6/10288	GASKET BUCH HOLE RELAY CONVEY, G08M-017	Nos	12	12					
3235	T-6/10288A	GASKET RELIEF PIPNG G08M-018	Nos	80	80					
3236	T-6/10289	GASKET PIPNG G08M-019	Nos	24	24					
3237	T-6/10289A	GASKET OIL PIPNG G08M-020	Nos	8	8					
3238	T-6/10290	GASKET PIPNG G08M-021	Nos	6	6					
3239	T-6/10290A	GASKET HARD HOLE, G08M-022	Nos	6	6					
3240	T-6/10291	GASKET REDIATOR VALVE,, G08M-023	Nos	60	60					
3241	T-6/10291A	GASKET CONSERVATION, G08M-024	Nos	4	4					
3242	T-6/10292	GASKET OIL LEVEL INDICATOR, G08M-025	Nos	2	2					
3243	T-6/10292A	GASKET ,G08M-029	Nos	2	2					
3244	T-6/10293	GASKET , G08M-030	Nos	2	2					
3245	T-6/10293A	GASKET LYN CABLE JUNCTION BOX, G08M-031	Nos	2	2					
3246	T-6/10294	GASKET , G08M-026	Nos	2	2					
3247	T-6/10294A	GASKET , G08M-027	Nos	2	2					
3248	T-6/10295	GASKET , G08M-028	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
3249	T-6/10295A	SPARE BOX FOR AUX: T/F: , T49,Y83	Nos	1	1					
3250	T-6/10296	PANNEL TYPE REDIATOR FOR STARTING T/F: G09M-004	Nos	1	1					
3251	T-6/10296A	HV BUSHING FOR S. T/F:, G09M-001	Nos	1	1					
3252	T-6/10297	LV BUSHING FOR S. T/F:, G09M-002	Nos	1	1					
3253	T-6/10297A	BURSTING PLATE, G09M-003	Nos	2	2					
3254	T-6/10298	OIL TEMPRATURE INDICATOR, G09M-005	Nos	1	1					
3255	T-6/10298A	WINDING TEMPRATURE INDICATOR, G09M-006	Nos	1	1					
3256	T-6/10299	SILICA GEL 2 KG, G09M-007	Nos	4	4					
3257	T-6/10299A	GASKET HV CABLE HEAD, G09M-009	Nos	6	6					
3258	T-6/10300	GASKET HV BUSHING, G09M-010	Nos	6	6					
3259	T-6/10300A	GASKET HV ELEPHANT, G09M-011	Nos	6	6					
3260	T-7/10301	GASKET HV ELEPHANT TURNEL FLANGE, G09M-012	Nos	12	12					
3261	T-7/10301A	GASKET PIPING, G09M-013	Nos	20	20					
3262	T-7/10302	GASKET BUCH HOLE RELAY & CONSURATOR PIPING G09M-014	Nos	12	12					
3263	T-7/10302A	GASKET BUCH HOLE RELAY & CONSURATOR PIPING G09M-015	Nos	12	12					
3264	T-7/10303	GASKET AIR RELEASING PIPING G09M-016	Nos	50	50					
3265	T-7/10303A	GASKET OIL PIPING, G09M-017	Nos	32	32					
3266	T-7/10304	GASKET PRESSURE RELIEF DEVICE, G09M-018	Nos	8	8					
3267	T-7/10304A	GASKET ELEMENT OTI, G09M-019	Nos	2	2					
3268	T-7/10305	GASKET ELEMENT WTI, G09M-020	Nos	2	2					
3269	T-7/10305A	GASKET PRESSURE BULB, G09M-021	Nos	2	2					
3270	T-7/10306	GASKET SUDDEN OIL PRESSURE G09M-022	Nos	4	4					
3271	T-7/10306A	GASKET REDIATOR VALVE, G09M-023	Nos	96	96					
3272	T-7/10307	GASKET LTC OIL LEVEL INDICATOR, G09M-024	Nos	2	2					
3273	T-7/10307A	GASKET OIL DRAIN G09M-025	Nos	4	4					
3274	T-7/10308	GASKET CIRCULATION VALVE, G09M-026	Nos	4	4					
3275	T-7/10308A	GASKET OIL DRAIN VALVE & FLANGE, G09M-027	Nos	34	34					
3276	T-7/10309	GASKET VACCUM VALVE G09M-028	Nos	18	18					
3277	T-7/10309A	GASKET BCT TERMINAL, G09M-029	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
3278	T-7/10310	GASKET HARD HOLE, G09M-030	Nos	2	2					
3279	T-7/10310A	GASKET HARD HOLE, G09M-031	Nos	6	6					
3280	T-7/10311	GASKET HARD HOLE, G09M-032	Nos	4	4					
3281	T-7/10311A	GASKET ALCOHAL TRHERMOMETER, G09M-033	Nos	2	2					
3282	T-7/10312	GASKET OIL DRAIN, G09M-034	Nos	48	48					
3283	T-7/10312A	GASKET OIL PIPING, G09M-035	Nos	10	10					
3284	T-7/10313	GASKET HV NEUTRAL BUSHING TANNEL FLANGE , G09M-036	Nos	2	2					
3285	T-7/10313A	GASKET LTC FLANGE G09M-037	Nos	2	2					
3286	T-7/10314	GASKET HARD HOLE, G09M-038	Nos	6	6					
3287	T-7/10314A	GASKET CONSERVATOR, G09M-039	Nos	2	2					
3288	T-7/10315	GASKET CONSERVATOR, G09M-040	Nos	2	2					
3289	T-7/10315A	GASKET OIL FLOW RELAY FOR LTC, G09M-041	Nos	8	8					
3290	T-7/10316	GASKET MAIN OIL LEVEL INDICATOR, G09M-042	Nos	2	2					
3291	T-7/10316A	GASKET G09M-043	Nos	2	2					
3292	T-7/10317	GASKET G09M-044	Nos	4	4					
3293	T-7/10317A	GASKET G09M-045	Nos	6	6					
3294	T-7/10318	GASKET G09M-046	Nos	2	2					
3295	T-7/10318A	GASKET G09M-047	Nos	6	6					
3296	T-7/10319	GASKET G09M-048	Nos	2	2					
3297	T-7/10319A	GASKET G09M-049	Nos	8	8					
3298	T-7/10320	GASKET G09M-050	Nos	4	4					
3299	T-7/10320A	SPARE BOX FOR STARTING T/F:, GT49-Y151	Nos	1	1					
3300	T-7/10321	LOW VOLTAGE FUSE, FO1M357	Nos	720	720					
3301	T-7/10321A	MOLDED TYPE CICUIT BREAKER, F01M416	Nos	10	10					
3302	T-7/10322	LOW VOLTAGE FUSE, F01M357	Nos	546	546					
3303	T-7/10322A	MOLDED TYPE CICUIT BREAKER, F01M370	Nos	9	9					
3304	T-7/10323	MOLDED TYPE CICUIT BREAKER, F01M382	Nos	10	10					
3305	T-7/10323A	THERMAL RELAY, F01M403	Nos	5	5					
3306	T-7/10324	LAMP CABLE, F01M327	Nos	85	85					
3307	T-7/10324A	LAMP CABLE, F01M328	Nos	85	85					

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1	2	3	4	5	6	7	8	10	11	12
3308	T-7/10325	OVER VOLTAGE GROUND RELAY, F01M344	Nos	1	1					
3309	T-7/10326A	MOLDED TYPE CICUIT BREAKER, F01M379	Nos	6	6					
3310	T-7/10327	THERMAL RELAY, F01M397	Nos	7	7					
3311	T-7/10327A	MOLDED TYPE CICUIT BREAKER, F01M362	Nos	10	10					
3312	T-7/10328	MOLDED TYPE CICUIT BREAKER, F01M366	Nos	8	8					
3313	T-7/10328A	MOLDED TYPE CICUIT BREAKER, F01M369	Nos	8	8					
3314	T-7/10329	MOLDED TYPE CICUIT BREAKER, F01M361	Nos	1	1					
3315	T-7/10330	THERMAL RELAY, F01M402	Nos	3	3					
3316	T-7/10330A	CENTRAL TRANS: IN CENTRAL CENTRE, F01M-406	Nos	3	3					
3317	T-7/10331	CENTRAL TRANS: IN CENTRAL CENTRE, F01M-407	Nos	3	3					
3318	T-7/10331A	LAMP BULB, F01M-332	Nos	5	5					
3319	T-7/10332	AUX: RELAY, F01M-349	Nos	2	2					
3320	T-7/10332A	CHANGE OVER SWITCH, F01M-351	Nos	5	5					
3321	T-7/10333	PUSH BUTTON, F01M-352	Nos	10	10					
3322	T-7/10333A	LOW VOLTAGE FUSE, F01M-359	Nos	166	166					
3323	T-7/10334	LOW VOLTAGE FUSE, F01M-360	Nos	100	100					
3324	T-7/10334A	MOLDED TYPE CICUIT BREAKER, F01M363	Nos	8	8					
3325	T-7/10335	MAGNETIC CONTACTOR, F01M-383	Nos	4	4					
3326	T-7/10336	LOW VOLTAGE FUSE, F01M-356	Nos	1400	1400					
3327	T-7/10336A	THERMAL RELAY, F01M-392	Nos	8	8					
3328	T-7/10337	THERMAL RELAY, F01M-393	Nos	8	8					
3329	T-7/10337A	THERMAL RELAY, F01M-394	Nos	2	2					
3330	T-7/10338	THERMAL RELAY, F01M-395	Nos	6	6					
3331	T-7/10338A	CENTRAL TRANS: F01M-405	Nos	3	3					
3332	T-7/10339	MOLDED TYPE CICUIT BREAKER, F01M424	Nos	10	10					
3333	T-7/10339A	MOLDED TYPE CICUIT BREAKER, F01M426	Nos	8	8					
3334	T-7/10340A	MOLDED TYPE CICUIT BREAKER, F01M422	Nos	10	10					
3335	T-7/10341	MOLDED TYPE CICUIT BREAKER, F01M377	Nos	5	5					
3336	T-7/10341A	MOLDED TYPE CICUIT BREAKER, F01M378	Nos	2	2					
3337	T-7/10343	MOLDED TYPE CICUIT BREAKER, F01M418	Nos	7	7					
3338	T-7/10343A	THERMAL RELAY, F01M-401	Nos	7	7					

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3339	T-7/10344	THERMAL RELAY, F01M-402	Nos	5	5					
3340	T-7/10344A	MOLDED TYPE CICUIT BREAKER, F01M409	Nos	6	6					
3341	T-7/10345	MOLDED TYPE CICUIT BREAKER, F01M420	Nos	7	7					
3342	T-7/10345A	MOLDED TYPE CICUIT BREAKER, F01M423	Nos	4	4					
3343	T-7/10346	EARTH LEAKAGE RELAY, F01M-345	Nos	3	3					
3344	T-7/10346A	AUX: RELAY, F01M-348	Nos	20	20					
3345	T-7/10347	MOLDED TYPE CICUIT BREAKER, F01M367	Nos	3	3					
3346	T-7/10347A	MOLDED TYPE CICUIT BREAKER, F01M368	Nos	9	9					
3347	T-7/10348A	MAGNATIC CONTACTOR, F01M-390	Nos	1	1					
3348	T-7/10349	MOLDED TYPE CICUIT BREAKER, F01M410	Nos	9	9					
3349	T-7/10349A	MOLDED TYPE CICUIT BREAKER, F01M415	Nos	8	8					
3350	T-7/10350	MOLDED TYPE CICUIT BREAKER, F01M425	Nos	7	7					
3351	T-7/10350A	VCB ASSEMBLY, G01M-004	Nos	1	1					
3352	T-7/10351	VCB ASSEMBLY, G01M-005	Nos	3	3					
3353	T-7/10351A	GRINDING TYPE POTENTIAL TRANSFORMER, F04M-001	Nos	1	1					
3354	T-7/10352	GRINDING TYPE POTENTIAL TRANSFORMER, F04M-002	Nos	1	1					
3355	T-7/10352A	CONDENSER, G08M-033	Nos	1	1					
3356	T-7/10353	CONDENSER, G09M-052	Nos	1	1					
3357	T-7/10353A	COMPLETE ASSEMBLY OF ACB, 2000AG11M,008	Nos	2	2					
3358	T-7/10354	COMPLETE ASSEMBLY OF ACB, 2000AG11M,009	Nos	1	1					
3359	T-7/10354A	COMPLETE ASSEMBLY OF ACB, 2000AG11M,010	Nos	1	1					
3360	T-7/10355	COMPLETE ASSEMBLY OF ACB, 1000AG11M,011	Nos	1	1					
3361	T-7/10355A	COMPLETE ASSEMBLY OF ACB, 1000AG11M,012	Nos	1	1					
3362	T-7/10356	LAMP GLOBE, F01M329.	Nos	105	105					
3363	T-7/10356A	LAMP GLOBE, F01M330	Nos	20	20					
3364	T-7/10357	LAMP GLOBE, F01M331	Nos	25	25					
3365	T-7/10357A	TRIPPING COIL, F01M-355	Nos	5	5					
3366	T-7/10358	CLOSING COIL, F01M-365	Nos	5	5					

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3367	T-7/10358A	MAGNATIC CONTACTOR, F01M-384	Nos	3	3					
3368	T-7/10359	MAGNATIC CONTACTOR, F01M-385	Nos	2	2					
3369	T-7/10359A	MAGNATIC CONTACTOR, F01M-387	Nos	1	1					
3370	T-7/10360	MAGNATIC CONTACTOR, F01M-388	Nos	1	1					
3371	T-7/10360A	MOLDED TYPE CICUIT BREAKER, F01M411	Nos	9	9					
3372	T-7/10361	MOLDED TYPE CICUIT BREAKER, F01M372	Nos	10	10					
3373	T-7/10361A	MOLDED TYPE CICUIT BREAKER, F01M408	Nos	9	9					
3374	T-7/10362	SYNCHRO CHECK RELAY, F01M-333	Nos	1	1					
3375	T-7/10362A	UNDER VOLTAGE RELAY, F01M-335	Nos	1	1					
3376	T-7/10363	OVER CURRENT RELAY, F01M-341	Nos	3	3					
3377	T-7/10363A	VOLTAGE RELAY, F01M-342	Nos	1	1					
3378	T-7/10364	LOCK OUT RELAY, F01M-343	Nos	20	20					
3379	T-7/10364A	AUX: RELAY, F01M-350	Nos	20	20					
3380	T-7/10365	CLOSING COIL VCB, F01M-353	Nos	5	5					
3381	T-7/10365A	MOLDED TYPE CICUIT BREAKER, F01M419	Nos	10	10					
3382	T-7/10366	UNDER VOLTAGE RELAY, FO1M-336	Nos	1	1					
3383	T-7/10366A	MOTOR TYPE RELAY, F01M-337	Nos	3	3					
3384	T-7/10367	MOLDED TYPE CICUIT BREAKER, F01M472	Nos	10	10					
3385	T-7/10367A	GROUNDING OVER VOLTAGE RELAY, FO1M-334	Nos	1	1					
3386	T-7/10368	OVER CURRENT RELAY, FO1M-340	Nos	3	3					
3387	T-7/10368A	AUX: RELAY, FO1M-347	Nos	20	20					
3388	T-7/10369	LOW VOLTAGE FUSE, FO1M-358	Nos	654	654					
3389	T-7/10369A	MOLDED TYPE CICUIT BREAKER, F01M373	Nos	6	6					
3390	T-7/10370	MOLDED TYPE CICUIT BREAKER, F01M374	Nos	1	1					
3391	T-7/10370A	MOLDED TYPE CICUIT BREAKER, F01M421	Nos	10	10					
3392	T-7/10371	DIRECTIONAL GROUND CURRENT RELAY, F01M-339	Nos	1	1					
3393	T-7/10371A	TRIPPING COIL VCB, F01M-354	Nos	5	5					
3394	T-7/10372	MOLDED TYPE CICUIT BREAKER, F01M380	Nos	1	1					
3395	T-7/10372A	MAGNETIC CONTACTOR, F01M-386	Nos	7	7					
3396	T-7/10373	MOTOR PROTECTION RELAY, F01M-338	Nos	3	3					
3397	T-7/10373A	THERMAL RELAY, F01M-404	Nos	8	8					

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1	2	3	4	5	6	7	8	10	11	12
3398	T-7/10374	MAGNETIC TYPE CIRCUIT BREAKER, F01M-417	Nos	8	8					
3399	T-7/10374A	MOLDED TYPE CICUIT BREAKER, F01M376	Nos	10	10					
3400	T-7/10375	MAGNETIC CONTACTOR, F01M-391	Nos	4	4					
3401	T-7/10376A	MOLDED TYPE CICUIT BREAKER, F01M375	Nos	4	4					
3402	T-7/10377	THERMAL RELAY, F01M-398	Nos	5	5					
3403	T-7/10377A	THERMAL RELAY, F01M-403	Nos	5	5					
3404	T-7/10378	CURRENT TRANSFORMER, F03M-005	Nos	2	2					
3405	T-7/10378A	CURRENT TRANSFORMER, F03M-006	Nos	2	2					
3406	T-7/10379	CURRENT TRANSFORMER, F03M-007	Nos	2	2					
3407	T-7/10379A	CURRENT TRANSFORMER, F03M-009	Nos	2	2					
3408	T-7/10380	CURRENT TRANSFORMER, F03M-012	Nos	2	2					
3409	T-7/10380A	CURRENT TRANSFORMER, F03M-013	Nos	2	2					
3410	T-7/10381	CURRENT TRANSFORMER, F03M-014	Nos	2	2					
3411	T-7/10381A	POTENTIAL TRANSFORMER, F04M-006	Nos	1	1					
3412	T-7/10382	FUSE ELEMENT, G06M-001	Nos	48	48					
3413	T-7/10382A	FUSE ELEMENT, G06M-003	Nos	78	78					
3414	T-7/10383	PT PRIMARY FUSE, G10M-001	Nos	36	36					
3415	T-7/10383A	FUSE ELEMENT, G10M-002	Nos	344	344					
3416	T-7/10384	FUSE ELEMENT, G10M-003	Nos	80	80					
3417	T-7/10384A	FUSE ELEMENT, G11M-002	Nos	72	72					
3418	T-7/10385	FUSE ELEMENT, 20A, G11-003	Nos	53	53					
3419	T-7/10385A	MOVING CONTACT ACB-2000A, G11M-004	Nos	9	9					
3420	T-7/10386	MOVING CONTACT ACB-1000A, G11M-005	Nos	15	15					
3421	T-7/10386A	FIXED CONTACTS, G11M-006	Nos	9	9					
3422	T-7/10387	FIXED CONTACTS, G11M-007	Nos	15	15					
3423	T-7/10390	GROUNDING TYPE POTENTIAL TRANSFORMER,F04M-005	Nos	1	1					
3424	T-7/10390A	FUSE ELEMENT, G06-002	Nos	148	148					
3425	T-7/10391	LIGHTINING ARRESTER, G08M-032	Nos	3	3					
3426	T-7/10391A	LIGHTINING ARRESTER, G09M-051	Nos	3	3					
3427	T-7/10392	FUSE ELEMENT, G11-001	Nos	148	148					
3428	T-7/10393	CURRENT TRANSFORMER, F03M-001	Nos	2	2					

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3429	T-7/10393A	CURRENT TRANSFORMER, F03M-002	Nos	2	2					
3430	T-7/10394	CURRENT TRANSFORMER, F03M-008	Nos	2	2					
3431	T-7/10394A	GROUNDING TYPE POTENTIAL TRANSFORMER,F04M-004	Nos	1	1					
3432	T-7/10395	CURRENT TRANSFORMER, F03M-003	Nos	1	1					
3433	T-7/10395A	CURRENT TRANSFORMER, F03M-004	Nos	1	1					
3434	T-7/10396	CURRENT TRANSFORMER, F03M-010	Nos	2	2					
3435	T-7/10396A	CURRENT TRANSFORMER, F03M-011	Nos	2	2					
3436	T-7/10397	POTENTIAL TRANSFORMER, F04M-003	Nos	1	1					
3437	T-7/10397A	FIELD GROUND RELAY, F01M-200	Nos	1	1					
3438	T-7/10398	DIFFERENTIAL RELAY, F01M-201	Nos	1	1					
3439	T-7/10398A	DIFFERENTIAL RELAY, F01M-202	Nos	1	1					
3440	T-7/103999	OFF SET MHD DISTANCE RELAY, F01M-203	Nos	1	1					
3441	T-7/10399A	LOSS OF FIELD RELAY, F01M-204	Nos	1	1					
3442	T-7/10400	NEGATIVE PHASE SEQUENCE CURRENT RELAY, F01M-205	Nos	1	1					
3443	T-8/10401A	FREQUENCY RELAY, F01M-208	Nos	1	1					
3444	T-8/10402	FREQUENCY RELAY, F01M-209	Nos	1	1					
3445	T-8/10402A	DIFFERENTIAL RELAY TRANSFORMER PRO, F01M-210	Nos	1	1					
3446	T-8/10403	VOLTAGE BALANCE RELAY, F01M-211	Nos	1	1					
3447	T-8/10403A	GROUND FAULT RELAY, F01M-212	Nos	1	1					
3448	T-8/10404	VOLTAGE RELAY, F01M-213	Nos	1	1					
3449	T-8/10404A	OVER CURRENT RELAY, F01M-214	Nos	3	3					
3450	T-8/10405	OVER CURRENT RELAY, F01M-215	Nos	3	3					
3451	T-8/10405A	OVER CURRENT RELAY, F01M-216	Nos	1	1					
3452	T-8/10406	OVER CURRENT RELAY, F01M-217	Nos	3	3					
3453	T-8/10406A	OVER CURRENT RELAY, F01M-218	Nos	3	3					
3454	T-8/10407	SYNCHRO RELAY, F01M-219	Nos	1	1					
3455	T-8/10407A	VOLTAGE RELAY, F01M-220	Nos	1	1					
3456	T-8/10408	AUX: RELAY, F01M-221	Nos	20	20					
3457	T-8/10408A	AUX: RELAY, F01M-222	Nos	20	20					
3458	T-8/10409	AUX: RELAY, F01M-223	Nos	20	20					

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1	2	3	4	5	6	7	8	10	11	12
3459	T-8/10409A	AUX: RELAY, F01M-224	Nos	20	20					
3460	T-8/10410	KEEP RELAY, F01M-225	Nos	20	20					
3461	T-8/10410A	KEEP RELAY, F01M-226	Nos	20	20					
3462	T-8/10411	KEEP RELAY, F01M-227	Nos	20	20					
3463	T-8/10411A	AUX: RELAY, F01M-228	Nos	20	20					
3464	T-8/10412	AUX: RELAY, F01M-229	Nos	15	15					
3465	T-8/10412A	AUX: RELAY, F01M-230	Nos	4	4					
3466	T-8/10413	AUX: RELAY, F01M-231	Nos	9	9					
3467	T-8/10413A	AM METER, F01M-232	Nos	10	10					
3468	T-8/10414	AM METER, F01M-233	Nos	20	20					
3469	T-8/10414A	TIME RELAY, F01M-234	Nos	20	20					
3470	T-8/10415	TIME RELAY, F01M-235	Nos	20	20					
3471	T-8/10415A	TIME RELAY, F01M-236	Nos	20	20					
3472	T-8/10416	TIME RELAY, F01M-237	Nos	20	20					
3473	T-8/10416A	TIME RELAY, F01M-238	Nos	20	20					
3474	T-8/10417	TIME RELAY, F01M-239	Nos	16	16					
3475	T-8/10417A	TIME RELAY, F01M-240	Nos	20	20					
3476	T-8/10418A	TIME RELAY, F01M-242	Nos	10	10					
3477	T-8/10419A	TIME RELAY, F01M-244	Nos	20	20					
3478	T-8/10420	TIME RELAY, F01M-245	Nos	20	20					
3479	T-8/10420A	TIME RELAY, F01M-246	Nos	20	20					
3480	T-8/10421	TIME RELAY, F01M-247	Nos	3	3					
3481	T-8/10421A	TIME RELAY, F01M-248	Nos	19	19					
3482	T-8/10422	TIME RELAY, F01M-249	Nos	20	20					
3483	T-8/10422A	TIME RELAY, F01M-250	Nos	17	17					
3484	T-8/10423	CENTRAL SWITCH, F01M-251	Nos	5	5					
3485	T-8/10423A	CENTRAL SWITCH, F01M-252	Nos	5	5					
3486	T-8/10424	CENTRAL SWITCH, F01M-253	Nos	5	5					
3487	T-8/10424A	CENTRAL SWITCH, F01M-254	Nos	5	5					
3488	T-8/10425	CENTRAL SWITCH, F01M-255	Nos	5	5					
3489	T-8/10425A	CENTRAL SWITCH, F01M-256	Nos	3	3					
3490	T-8/10426	CENTRAL SWITCH, F01M-257	Nos	5	5					

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1	2	3	4	5	6	7	8	10	11	12
3491	T-8/10426A	CENTRAL SWITCH, F01M-258	Nos	5	5					
3492	T-8/10427	CENTRAL SWITCH, F01M-259	Nos	5	5					
3493	T-8/10427A	CENTRAL SWITCH, F01M-260	Nos	5	5					
3494	T-8/10428	CENTRAL SWITCH, F01M-261	Nos	5	5					
3495	T-8/10428A	CENTRAL SWITCH, F01M-262	Nos	5	5					
3496	T-8/10429	CENTRAL SWITCH, F01M-263	Nos	5	5					
3497	T-8/10429A	CENTRAL SWITCH, F01M-264	Nos	5	5					
3498	T-8/10430	HANDLE OF CANT SWITCH, F01M 265	Nos	50	50					
3499	T-8/10430A	HANDLE OF CANT SWITCH, F01M 266	Nos	10	10					
3500	T-8/10431	HANDLE OF CANT SWITCH, F01M 267	Nos	5	5					
3501	T-8/10431A	CENTRAL SWITCH, F01M-268	Nos	5	5					
3502	T-8/10432	CENTRAL SWITCH, F01M-269	Nos	5	5					
3503	T-8/10432A	CENTRAL SWITCH, F01M-270	Nos	5	5					
3504	T-8/10433	CENTRAL SWITCH, F01M-271	Nos	5	5					
3505	T-8/10433A	CENTRAL SWITCH, F01M-272	Nos	5	5					
3506	T-8/10434	KEY SWITCH, F01M-273	Nos	5	5					
3507	T-8/10434A	KEY SWITCH, F01M-274	Nos	5	5					
3508	T-8/10435	KEY SWITCH, F01M-275	Nos	5	5					
3509	T-8/10436	PUSH BUTTON SWITCH, FO1M-277	Nos	4	4					
3510	T-8/10436A	PUSH BUTTON SWITCH, FO1M-278	Nos	10	10					
3511	T-8/10437	PUSH BUTTON SWITCH, FO1M-279	Nos	10	10					
3512	T-8/10437A	PUSH BUTTON SWITCH, FO1M-280	Nos	9	9					
3513	T-8/10438	PUSH BUTTON SWITCH, FO1M-281	Nos	15	15					
3514	T-8/10438A	PUSH BUTTON SWITCH, FO1M-282	Nos	3	3					
3515	T-8/10439	PUSH BUTTON SWITCH, FO1M-283	Nos	4	4					
3516	T-8/10439A	PUSH BUTTON SWITCH, FO1M-284	Nos	24	24					
3517	T-8/10440	PUSH BUTTON SWITCH, FO1M-285	Nos	3	3					
3518	T-8/10440A	PUSH BUTTON SWITCH, FO1M-286	Nos	7	7					
3519	T-8/10441	PUSH BUTTON SWITCH, FO1M-287	Nos	25	25					
3520	T-8/10441A	PUSH BUTTON SWITCH, FO1M-288	Nos	4	4					
3521	T-8/10442	LAMP, F01M-289	Nos	21	21					
3522	T-8/10442A	LAMP, F01M-290	Nos	25	25					

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1	2	3	4	5	6	7	8	10	11	12
3523	T-8/10443	LAMP, F01M-291	Nos	23	23					
3524	T-8/10443A	LAMP, F01M-292	Nos	23	23					
3525	T-8/10444	LAMP SL 102, F01M-293	Nos	?	?					
3526	T-8/10444A	GLOVE FOR SL 102, F01M-294	Nos	11	11					
3527	T-8/10445	GLOVE FOR SL 102, F01M-295	Nos	11	11					
3528	T-8/10445A	GLOVE FOR SL 102, F01M-296	Nos	11	11					
3529	T-8/10446A	PUSH BUTTON SWITCH, F01M-298	Nos	4	4					
3530	T-8/10447	LAMP, F01M-299	Nos	650	650					
3531	T-8/10447A	LAMP, F01M-300(Pilot Lamp 220V5W(T15x43)E12	Nos	1600	1600					
3532	T-8/10448	SEQUENCE LAMP, F01M-301	Nos	4	4					
3533	T-8/10448A	SEQUENCE LAMP, F01M-302	Nos	2	2					
3534	T-8/10449	SEQUENCE LAMP, F01M-303	Nos	2	2					
3535	T-8/10449A	SEQUENCE LAMP, F01M-304	Nos	18	18					
3536	T-8/10450	SEQUENCE LAMP, F01M-305	Nos	8	8					
3537	T-8/10450A	IA, GRF, MOTOR, 325KW, F02M-501	Nos	1	1					
3538	T-8/10451	RESIDUAL OIL PUMP MOTOR, 55KW,4P, F02M-503	Nos	1	1					
3539	T-8/10451A	RESIDUAL OIL RECIEVE PUMP MOTOR, 37KW,8P, F02M-505	Nos	1	1					
3540	T-8/10452	RESIDUAL OIL RECIEVE -X-FER PUMP MOTOR, 55KW,8P, F02M-504	Nos	1	1					
3541	T-8/10452A	C.P. MOTOR, 230KW, 4P, F02M-322	Nos	1	1					
3542	T-8/10453	COOLING TOWER FAN MOTOR, 145KW, 4P, F02M-323	Nos	1	1					
3543	T-8/10453A	PIPE,450AX7.9tX6000, D17M-208	Nos	1	1					
3544	T-8/10454	PIPE,550AX12.7tX, D17M-210	Nos	1	1					
3545	T-8/10454A	PIPE,550AX D17M-211	Nos	1	1					
3546	T-8/10455	PIPE,600AX7.9tX, D17M-212	Nos	1	1					
3547	T-8/10455A	PIPE,700AX7.9tX, D17M-213	Nos	1	1					
3548	T-8/10456	PIPE SGP ,300AX500 D17M-220	Nos	1	1					
3549	T-8/10456A	PIPE SGP ,350AX D17M-222	Nos	1	1					
3550	T-8/10457	PIPE SGP ,400A D17M-224	Nos	1	1					
3551	T-8/10457A	PIPE STPA 12 ,300A D17M-231	Nos	1	1					
3552	T-8/10458	PIPE STPA ,350A D17M-232	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3553	T-8/10458A	PIPE STPA 24 ,300A D17M-234	Nos	1	1					
3554	T-8/10459	PIPE STPG 38 ,300A D17M-243	Nos	1	1					
3555	T-8/10459A	PIPE STPG 38 ,300A D17M-257	Nos	1	1					
3556	T-8/10460	PIPE SGP 38 ,300AX500 D17M-258	Nos	1	1					
3557	T-8/10460A	PIPE STPG 38 ,400A D17M-259	Nos	1	1					
3558	T-8/10461	PIPE SGP ,100AX5500 D17M-214	Nos	1	1					
3559	T-8/10461A	PIPE SGP ,150AX D17M-215	Nos	1	1					
3560	T-8/10462	PIPE SGP ,20A D17M-216	Nos	1	1					
3561	T-8/10462A	PIPE SGP ,200A D17M-217	Nos	1	1					
3562	T-8/10463	PIPE SGP ,25A D17M-218	Nos	1	1					
3563	T-8/10463A	PIPE SGP ,250A D17M-219	Nos	1	1					
3564	T-8/10464	PIPE SGP ,32A D17M-221	Nos	1	1					
3565	T-8/10464A	PIPE SGP ,40A D17M-223	Nos	1	1					
3566	T-8/10465	PIPE SGP ,450A D17M-225	Nos	1	1					
3567	T-8/10465A	PIPE SGP ,50A D17M-226	Nos	1	1					
3568	T-8/10466	PIPE SGP ,500A D17M-227	Nos	1	1					
3569	T-8/10466A	PIPE SGP ,65A D17M-228	Nos	1	1					
3570	T-8/10467	PIPE SGP ,80A D17M-229	Nos	1	1					
3571	T-8/10467A	PIPE STPA ,22, 200A D17M-233	Nos	1	1					
3572	T-8/10468	PIPE STPG 38 ,150A D17M-238	Nos	1	1					
3573	T-8/10468A	PIPE STPG ,200A D17M-241	Nos	1	1					
3574	T-8/10469	PIPE STPG 38 ,250A D17M-242	Nos	1	1					
3575	T-8/10469A	PIPE STPG 38 ,50A D17M-248	Nos	1	1					
3576	T-8/10470	PIPE STPT 38 ,125A D17M-252	Nos	1	1					
3577	T-8/10470A	PIPE STPT 38 ,150A D17M-253	Nos	1	1					
3578	T-8/10471	PIPE STPT 38 ,200A D17M-254	Nos	1	1					
3579	T-8/10471A	PIPE STPT 38 ,25A D17M-255	Nos	1	1					
3580	T-8/10472	PIPE STPT 38 ,250A D17M-256	Nos	1	1					
3581	T-8/10472A	PIPE STPT 38 ,80A D17M-261	Nos	1	1					
3582	T-8/10473	PIPE SUS, 304, 100AX4000 D17M-262	Nos	1	1					
3583	T-8/10473A	PIPE SUS, 304, 150AX4000 D17M-263	Nos	1	1					
3584	T-8/10474	PIPE SUS, 304, 20A D17M-264	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3585	T-8/10474A	PIPE SUS, 304, 200A D17M-265	Nos	1	1					
3586	T-8/10475	PIPE SUS, 304, 25A D17M-266	Nos	1	1					
3587	T-8/10475A	PIPE SUS, 304, 40A D17M-267	Nos	1	1					
3588	T-8/10476	PIPE SUS, 304, 50A D17M-268	Nos	1	1					
3589	T-8/10476A	PIPE SUS, 304, 65A D17M-269	Nos	1	1					
3590	T-8/10477	PIPE SUS, 304, 80A D17M-270	Nos	1	1					
3591	T-8/10477A	PIPE SUS, 316, 100A D17M-271	Nos	1	1					
3592	T-8/10478	PIPE SUS, 316, 20A D17M-272	Nos	1	1					
3593	T-8/10478A	PIPE SUS, 316, 200A D17M-273	Nos	1	1					
3594	T-8/10479	PIPE SUS, 316, 40A D17M-274	Nos	1	1					
3595	T-8/10479A	PIPE SUS, 316, 50A D17M-275	Nos	1	1					
3596	T-8/10480	PIPE SUS, 316, 80A D17M-276	Nos	1	1					
3597	T-8/10480A	REDUCER CAN FSGP, 100AX150, D17M-281	Nos	1	1					
3598	T-8/10481	REDUCER CAN FSGP, 100AX200A, D17M-282	Nos	1	1					
3599	T-8/10481A	REDUCER CAN FSGP, 150AX200, D17M-283	Nos	1	1					
3600	T-8/10482	REDUCER CAN FSGP, 150AX300, D17M-284	Nos	1	1					
3601	T-8/10482A	REDUCER CAN FSGP, 20AX40A, D17M-285	Nos	1	1					
3602	T-8/10483	REDUCER CAN FSGP, 250AX300, D17M-286	Nos	1	1					
3603	T-8/10483A	REDUCER CAN FSGP, 250AX350, D17M-287	Nos	1	1					
3604	T-8/10484	REDUCER CAN FSGP, 40AX100, D17M-288	Nos	1	1					
3605	T-8/10484A	REDUCER CAN FSGP, 40AX65, D17M-289	Nos	1	1					
3606	T-8/10485	REDUCER CAN FSGP, 50AX100, D17M-290	Nos	1	1					
3607	T-8/10485A	REDUCER CAN FSGP, 80AX150, D17M-293	Nos	1	1					
3608	T-8/10486	REDUCER CAN STPT 38, 100AX150, D17M-294	Nos	1	1					
3609	T-8/10486A	REDUCER CAN STPT 38, 100AX200, D17M-295	Nos	1	1					
3610	T-8/10487	REDUCER CAN STPT 38, 125AX250, D17M-297	Nos	1	1					
3611	T-8/10487A	REDUCER CAN STPT 38, 150AX200, D17M-298	Nos	1	1					
3612	T-8/10488	REDUCER CAN STPT 38, 150AX250, D17M-299	Nos	1	1					
3613	T-8/10488A	REDUCER CAN STPT 38, 150AX300, D17M-300	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3614	T-8/10489	REDUCER CAN STPT 38, 200AX250, D17M-301	Nos	1	1					
3615	T-8/10489A	REDUCER CAN STPT 38, 200AX300, D17M-302	Nos	1	1					
3616	T-8/10490	REDUCER CAN STPT 38, 200AX350, D17M-303	Nos	1	1					
3617	T-8/10490A	REDUCER CAN STPT 38, 250AX300, D17M-305	Nos	1	1					
3618	T-8/10491	REDUCER CAN STPT 38, 250AX350, D17M-306	Nos	1	1					
3619	T-8/10491A	REDUCER CAN STPT 38, 300AX400, D17M-308	Nos	1	1					
3620	T-8/10492	REDUCER CAN STPT 38, 40AX100, D17M-310	Nos	1	1					
3621	T-8/10492A	REDUCER CAN STPT 38, 50AX100, D17M-311	Nos	1	1					
3622	T-8/10493	REDUCER CAN STPT 38, 50AX65 D17M-312	Nos	1	1					
3623	T-8/10493A	REDUCER CAN STPT 38, 50AX80, D17M-313	Nos	1	1					
3624	T-8/10494	REDUCER CAN STPT 38, 80AX100, D17M-314	Nos	1	1					
3625	T-8/10494A	REDUCER CAN STPT 38, 80AX150, D17M-315	Nos	1	1					
3626	T-8/10495	REDUCER CAN SUS 304, 150X200, D17M-317	Nos	1	1					
3627	T-8/10495A	REDUCER CAN SUS 304, 20X50, D17M-318	Nos	1	1					
3628	T-8/10496	REDUCER CAN SUS 304, 50X65, D17M-320	Nos	1	1					
3629	T-8/10496A	REDUCER CAN SUS 304, 50X80, D17M-321	Nos	1	1					
3630	T-8/10497	REDUCER CAN SUS 304, 65X100, D17M-322	Nos	1	1					
3631	T-8/10497A	REDUCER CAN SUS 304, 65X80, D17M-323	Nos	1	1					
3632	T-8/10498	REDUCER CAN SUS 304, 80X100, D17M-324	Nos	1	1					
3633	T-8/10498A	REDUCER CAN SUS 316, 100X150, D17M-325	Nos	1	1					
3634	T-8/10499	REDUCER CAN SUS 316, 40X50, D17M-326	Nos	1	1					
3635	T-8/10499A	REDUCER CAN SUS 316, 50X80, D17M-327	Nos	1	1					
3636	T-8/10500	REDUCER (SW) S25C 20X50, D17M-328	Nos	1	1					
3637	T-8/10500A	REDUCER CAN (SW) S25C, 32X50, D17M-329	Nos	1	1					
3638	T-9/10501	REDUCER CAN (SW) S25C, 40X50, D17M-330	Nos	1	1					
3639	T-9/10501A	REDUCER ECE FSGP 100X150, D17M-331	Nos	1	1					
3640	T-9/10502	REDUCER ECE FSGP 150X250, D17M-334	Nos	1	1					
3641	T-9/10502A	REDUCER ECE FSGP 200X300, D17M-336	Nos	1	1					
3642	T-9/10503	REDUCER ECE FSGP 300X350, D17M-338	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3643	T-9/10503A	REDUCER ECE FSGP 80X100, D17M-345	Nos	1	1					
3644	T-9/10504	REDUCER ECE FSGP 80X150, D17M-346	Nos	1	1					
3645	T-9/10504A	REDUCER ECE STPT 38, 100X150, D17M-347	Nos	1	1					
3646	T-9/10505	REDUCER ECE STPT 38, 100X200, D17M-348	Nos	1	1					
3647	T-9/10505A	REDUCER ECE STPT 38, 125X150, D17M-349	Nos	1	1					
3648	T-9/10506	REDUCER ECE STPT 38, 125X250, D17M-350	Nos	1	1					
3649	T-9/10506A	REDUCER ECE STPT 38, 150X200, D17M-351	Nos	1	1					
3650	T-9/10507	REDUCER ECE STPT 38, 200X300, D17M-353	Nos	1	1					
3651	T-9/10507A	REDUCER ECE STPT 38, 250X300, D17M-354	Nos	1	1					
3652	T-9/10508	REDUCER ECE STPT 38, 65X100, D17M-358	Nos	1	1					
3653	T-9/10509	REDUCER ECE STPT 38, 80X150, D17M-360	Nos	1	1					
3654	T-9/10509A	REDUCER ECE SUS 304, 100X150, D17M-364	Nos	1	1					
3655	T-9/10510	REDUCER ECE SUS 304, 400X80X150, D17M-365	Nos	1	1					
3656	T-9/10510A	REDUCER ECE SUS 304, 50X100, D17M-366	Nos	1	1					
3657	T-9/10511	REDUCER ECE SUS 316, 100X200, D17M-367	Nos	1	1					
3658	T-9/10511A	TEE FSGP, 100X150, D17M-374	Nos	1	1					
3659	T-9/10512	TEE FSGP, 150X200, D17M-377	Nos	1	1					
3660	T-9/10512A	TEE FSGP, 150X350, D17M-378	Nos	1	1					
3661	T-9/10513	TEE FSGP, 200X200, D17M-379	Nos	1	1					
3662	T-9/10513A	TEE FSGP, 200X250, D17M-380	Nos	1	1					
3663	T-9/10514	TEE FSGP, 300X30, D17M-381	Nos	1	1					
3664	T-9/10514A	TEE FSGP, 300X350, D17M-382	Nos	1	1					
3665	T-9/10515	TEE FSGP, 350X350, D17M-383	Nos	1	1					
3666	T-9/10515A	TEE FSGP, 50X50, D17M-389	Nos	1	1					
3667	T-9/10516	TEE FSGP, 50X65, D17M-390	Nos	1	1					
3668	T-9/10516A	TEE FSGP, 50X80, D17M-391	Nos	1	1					
3669	T-9/10517	TEE FSGP, 65X100, D17M-393	Nos	1	1					
3670	T-9/10517A	TEE FSGP, 65X65, D17M-394	Nos	1	1					
3671	T-9/10518	TEE FSGP, 100X100, D17M-396	Nos	1	1					
3672	T-9/10518A	TEE STPT, 100X100, D17M-397	Nos	1	1					
3673	T-9/10519	TEE STPT, 100X150, D17M-398	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3674	T-9/10519A	TEE STPT, 100X250, D17M-398	Nos	1	1					
3675	T-9/10520	TEE STPT, 125X125, D17M-400	Nos	1	1					
3676	T-9/10520A	TEE STPT, 150X150, D17M-402	Nos	1	1					
3677	T-9/10521	TEE STPT, 150X200, D17M-403	Nos	1	1					
3678	T-9/10521A	TEE STPT, 150X300, D17M-405	Nos	1	1					
3679	T-9/10522	TEE STPT, 200X200, D17M-406	Nos	1	1					
3680	T-9/10522A	TEE STPT, 200X250, D17M-407	Nos	1	1					
3681	T-9/10523	TEE STPT, 200X300 D17M-408	Nos	1	1					
3682	T-9/10523A	TEE STPT, 250X250, D17M-4010	Nos	1	1					
3683	T-9/10524	TEE STPT, 250X300, D17M-411	Nos	1	1					
3684	T-9/10524A	TEE STPT, 300X300, D17M-413	Nos	1	1					
3685	T-9/10525	TEE STPT, 300X350, D17M-414	Nos	1	1					
3686	T-9/10525A	TEE STPT, 400X400, D17M-418	Nos	1	1					
3687	T-9/10526	TEE STPT, 50X65, D17M-419	Nos	1	1					
3688	T-9/10526A	TEE STPT, 65X65, D17M-420	Nos	1	1					
3689	T-9/10527	TEE STPT, 125X125, D17M-400	Nos	1	1					
3690	T-9/10527A	TEE STPT, 38, 80X100, D17M-422	Nos	1	1					
3691	T-9/10528	TEE STPT, 38, 80X150, D17M-423	Nos	1	1					
3692	T-9/10528A	TEE STPT38, , 400X450, D17M-429-1	Nos	1	1					
3693	T-9/10529	TEE SUS, 304, 100X200, D17M-432-1	Nos	1	1					
3694	T-9/10529A	TEE SUS, 304, 150X150, D17M-433-1	Nos	1	1					
3695	T-9/10530	TEE SUS, 304, 20X40, D17M-434-1	Nos	1	1					
3696	T-9/10530A	TEE SUS, 304, 200X200, D17M-435-1	Nos	1	1					
3697	T-9/10531	TEE SUS, 304, 50X50, D17M-436-1	Nos	1	1					
3698	T-9/10531A	TEE SUS, 304, 50X65, D17M-437-1	Nos	1	1					
3699	T-9/10532	TEE SUS, 304, 65X60, D17M-439-1	Nos	1	1					
3700	T-9/10532A	TEE (SW), S25C, 20X20 D17M-426-1	Nos	1	1					
3701	T-9/10533	TEE (SW), S25C, 20X40 D17M-427-1	Nos	1	1					
3702	T-9/10533A	TEE (SW), S25C, 20X50 D17M-428	Nos	1	1					
3703	T-9/10534	TEE (SW), S25C, 20X50 D17M-429	Nos	1	1					
3704	T-9/10534A	TEE (SW), S25C, 25X50 D17M-430	Nos	1	1					
3705	T-9/10535	TEE (SW), S25C, 25X50 D17M-431	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3706	T-9/10535A	TEE (SW), S25C, 50X50 D17M-432	Nos	1	1					
3707	T-9/10536	TEE (SW), S25C, 50X50 D17M-433	Nos	1	1					
3708	T-9/10536A	90" ELBOW, FSGP 200A, D17M-449	Nos	1	1					
3709	T-9/10537	90" ELBOW, FSGP 300A, D17M-451	Nos	1	1					
3710	T-9/10537A	90" ELBOW, STPT, 38, 10A D17M-463	Nos	1	1					
3711	T-9/10538	90" ELBOW, STPT, 38, 150 D17M-466	Nos	1	1					
3712	T-9/10538A	90" ELBOW, (SW),S25C, 20A D17M-476	Nos	1	1					
3713	T-9/10539	90" ELBOW, (SW),S25C, 25A D17M-477	Nos	1	1					
3714	T-9/10539A	90" ELBOW, (SW),S25C, 32A D17M-478	Nos	1	1					
3715	T-9/10540	90" ELBOW, (SW),S25C, 40A D17M-479	Nos	1	1					
3716	T-9/10540A	90" ELBOW, (SW),S25C, 50A D17M-480	Nos	1	1					
3717	T-9/10541	90" ELBOW, SUS 304, 100A D17M-481	Nos	1	1					
3718	T-9/10541A	90" ELBOW, SUS 304, 150A D17M-482	Nos	1	1					
3719	T-9/10542	90" ELBOW, SUS 304, 200A D17M-483	Nos	1	1					
3720	T-9/10542A	90" ELBOW, SUS 304, 65A D17M-484	Nos	1	1					
3721	T-9/10543	90" ELBOW, SUS 304, 80A D17M-485	Nos	1	1					
3722	T-9/10543A	90" ELBOW, SUS 304, 20A D17M-486	Nos	1	1					
3723	T-9/10544	90" ELBOW, SUS 304, 25A D17M-487	Nos	1	1					
3724	T-9/10544A	90" ELBOW, SUS 304, 40A D17M-488	Nos	1	1					
3725	T-9/10545	90" ELBOW, SUS 304, 50A D17M-489	Nos	1	1					
3726	T-9/10545A	90" ELBOW, SUS 316, 100A D17M-490	Nos	1	1					
3727	T-9/10546	90" ELBOW, SUS 316, 200A D17M-491	Nos	1	1					
3728	T-9/10546A	90" ELBOW, SUS 316, 80A D17M-492	Nos	1	1					
3729	T-9/10547	90" ELBOW, (SW) SUS, 316, 20A D17M-493	Nos	1	1					
3730	T-9/10547A	90" ELBOW, (SW) SUS, 316, 40A D17M-494	Nos	1	1					
3731	T-9/10548	90" ELBOW, (SW) SUS, 316, 50A D17M-495	Nos	1	1					
3732	T-9/10548A	PIPE, STPG 38, 100A D17M-235	Nos	1	1					
3733	T-9/10549	PIPE, STPG 38, 100A D17M-236	Nos	1	1					
3734	T-9/10549A	PIPE STPG 38, 125A D17M-237	Nos	1	1					
3735	T-9/10550	PIPE, STPG 38, 150A D17M-239	Nos	1	1					
3736	T-9/10550A	PIPE, STPG 38, 20A D17M-240	Nos	1	1					
3737	T-9/10551	PIPE, STPG 38, 350A D17M-244	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3738	T-9/10551A	PIPE, STPG 38, 40A D17M-245	Nos	1	1					
3739	T-9/10552	PIPE, STPG 38, 400A D17M-246	Nos	1	1					
3740	T-9/10552A	PIPE, STPG 38, 50A D17M-247	Nos	1	1					
3741	T-9/10553	PIPE, STPG 38, 65A D17M-250	Nos	1	1					
3742	T-9/10553A	PIPE, STPG 38, 80A D17M-251	Nos	1	1					
3743	T-9/10554	REDUCER, FSGP 200AX250A, D17M-316	Nos	1	1					
3744	T-9/10554A	REDUCER, FSGP 200AX250A, D17M-335	Nos	1	1					
3745	T-9/10555	TEE, FSGP 100AX200A, D17M-375	Nos	1	1					
3746	T-9/10555A	TEE, FSGP 80AX150A, D17M-395	Nos	1	1					
3747	T-9/10556	TEE, STPT, 38, 150AX150A, D17M-401	Nos	1	1					
3748	T-9/10556A	TEE, STPT, 38, 200AX400A, D17M-409	Nos	1	1					
3749	T-9/10557	90" ELBOW, STPY 41, 500X7, D17M-442	Nos	1	1					
3750	T-9/10557A	90" ELBOW, STPY 41, 700X79, D17M-446	Nos	1	1					
3751	T-9/10558	90" ELBOW, FSGP, 500A D17M-455	Nos	1	1					
3752	T-9/10558A	REDUCER, CAN 12"X18"X231, D17M-277	Nos	1	1					
3753	T-9/10559	REDUCER, CAN, FSGP, 65X100, D17M-291	Nos	1	1					
3754	T-9/10559A	REDUCER, CAN, FSGP, 80X100, D17M-292	Nos	1	1					
3755	T-9/10560	REDUCER, CAN, STPT, 38, 100X250, D17M-296	Nos	1	1					
3756	T-9/10560A	REDUCER, CAN, SUS, 304, 400X50A, D17M-319	Nos	1	1					
3757	T-9/10561	REDUCER, CAN, ECE,FSGP, 50X100A, D17M-342	Nos	1	1					
3758	T-9/10561A	REDUCER, ECE,FSGP, 50X80A, D17M-343	Nos	1	1					
3759	T-9/10562	REDUCER, ECE,FSGP, 65X80A, D17M-344	Nos	1	1					
3760	T-9/10562A	REDUCER, ECE,STPT, 38 300X350A, D17M-355	Nos	1	1					
3761	T-9/10563	REDUCER, ECE, SM41A, 300AX600 D17M-363	Nos	1	1					
3762	T-9/10563A	TEE,WPC, 8"X8"X24t, D17M-372	Nos	1	1					
3763	T-9/10564	TEE, FSGP, 100X100, D17M-373	Nos	1	1					
3764	T-9/10564A	TEE, FSGP, 150X150, D17M-376	Nos	1	1					
3765	T-9/10565	TEE, FSGP, 50X100, D17M-388	Nos	1	1					
3766	T-9/10565A	TEE, STPT, 38, 150X250, D17M-404	Nos	1	1					
3767	T-9/10566	TEE, STPT, 38, 80X80, D17M-424	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3768	T-9/10566A	TEE, SUS, 304, 100X150, D17M-431	Nos	1	1					
3769	T-9/10567	TEE, SUS, 304, 65X150, D17M-438	Nos	1	1					
3770	T-9/10567A	TEE, SUS, 304, 80X150, D17M-440	Nos	1	1					
3771	T-9/10568	TEE, SUS, 16, 100X200, D17M-441	Nos	1	1					
3772	T-9/10568A	TEE, SUS, 316, 200X40, D17M-442	Nos	1	1					
3773	T-9/10569	TEE, SUS, 316, 200X200, D17M-443	Nos	1	1					
3774	T-9/10569A	90" ELBOW WPC, 12"X37, D17M-436	Nos	1	1					
3775	T-9/10570	90" ELBOW WPC, 3"X160, D17M-438	Nos	1	1					
3776	T-9/10570A	90" ELBOW FSGP 100, D17M-447	Nos	1	1					
3777	T-9/10571	90" ELBOW FSGP 250A, D17M-450	Nos	1	1					
3778	T-9/10571A	90" ELBOW FSGP 350A, D17M-452	Nos	1	1					
3779	T-9/10572	90" ELBOW FSGP 400A, D17M-453	Nos	1	1					
3780	T-9/10572A	90" ELBOW FSGP 450A, D17M-454	Nos	1	1					
3781	T-9/10573	90" ELBOW FSGP 80A, D17M-456	Nos	1	1					
3782	T-9/10573A	90" ELBOW STPA, 12, 300, D17M-459	Nos	1	1					
3783	T-9/10574	90" ELBOW STPA, 22, 200A, D17M-460	Nos	1	1					
3784	T-9/10574A	90" ELBOW STPA, 24, 300A, D17M-461	Nos	1	1					
3785	T-9/10575	90" ELBOW STPT, 38, 100A, D17M-462	Nos	1	1					
3786	T-9/10575A	90" ELBOW STPT, 38, 350A, D17M-470	Nos	1	1					
3787	T-9/10576	90" ELBOW STPT, 38, 65A, D17M-473	Nos	1	1					
3788	T-9/10576A	90" ELBOW STPT, 38, 80A, D17M-474	Nos	1	1					
3789	T-9/10577	REDUCER CAN,WPC, 3X6, D17M-278	Nos	1	1					
3790	T-9/10577A	REDUCER CAN,WPC, 6X8, D17M-279	Nos	1	1					
3791	T-9/10578	REDUCER CAN,WPC, 8X12X24t, D17M-280	Nos	1	1					
3792	T-9/10578A	REDUCER ECE, FSGP, 100X200A, D17M-332	Nos	1	1					
3793	T-9/10579	REDUCER ECE, 150X200A, D17M-333	Nos	1	1					
3794	T-9/10579A	TEE, FSGP, 300X400, D17M B100,P-S, 187	Nos	1	1					
3795	T-9/10580	TEE, FSGP, 500X500, D17M B100,P-S, 196, D17M-392	Nos	1	1					
3796	T-9/10580A	TEE, STPT, 38, 250X400, D17M B100,P-S, 216, D17M-412	Nos	1	1					
3797	T-9/10581	TEE, STPT, 38, 300X400, D17M B100,P-S, 219, D17M-415	Nos	1	1					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3798	T-9/10581A	TEE, STPT, 38, 350X350, D17M B100,P-S, 221, D17M-417	Nos	1	1					
3799	T-9/10582	TEE, STPY, 41, 400X550, D17M B100,P-S, 229, D17M-425	Nos	1	1					
3800	T-9/10582A	TEE, STPY, 41, 500X550, D17M B100,P-S, 230, D17M-426	Nos	1	1					
3801	T-9/10583	45" ELBOW, WPC 12X35t D17M-435-1	Nos	1	1					
3802	T-9/10583A	90" ELBOW, WPC 6 D17M-439-1	Nos	1	1					
3803	T-9/10584	90" ELBOW, STPT, 38, 450A D17M-475	Nos	1	1					
3804	T-9/10584A	REDUCER ECE, FSGP, 250X400A, D17M-337	Nos	1	1					
3805	T-9/10585	REDUCER ECE, FSGP, 300X500A, D17M-339	Nos	1	1					
3806	T-9/10585A	REDUCER ECE, 400X500A, D17M-341	Nos	1	1					
3807	T-9/10586	REDUCER ECE, STPY, 41, 500X550A, D17M-361	Nos	1	1					
3808	T-9/10586A	REDUCER ECE, STPY, 41, 500X700AX79t, D17M-362	Nos	1	1					
3809	T-9/10587	TEE, FSGP, 350X500, D17M-385	Nos	1	1					
3810	T-9/10587A	TEE, FSGP, 400X500, D17M-386	Nos	1	1					
3811	T-9/10588	TEE, FSGP, 450X500, D17M-387	Nos	1	1					
3812	T-9/10588A	TEE, STPT, 38, 300X500, D17M-416	Nos	1	1					
3813	T-9/10588A1	90" ELBOW,38,125X40, D17M-464	Nos	1	1					
3814	T-9/10589	TEE, STPT, 38, 300X450, D17M-427	Nos	1	1					
3815	T-9/10589B	90" ELBOW,38,150X40, D17M-465	Nos	1	1					
3816	T-9/10589A	TEE, STPT, 38, 450X450, D17M-430-1	Nos	1	1					
3817	T-9/10589A1	90" ELBOW,38,500X20, D17M-472	Nos	1	1					
3818	T-9/10590	90" ELBOW, WPC,12, D17M-434	Nos	1	1					
3819	T-9/10590B	PIPE, A106, 16X44X5500L, D17M-203	Nos	1	1					
3820	T-9/10590A	90" ELBOW, STPY,41, 550X7St D17M-444	Nos	1	1					
3821	T-9/10590A1	PIPE, STPY41, 79X6000, D17M-209	Nos	1	1					
3822	T-9/10591	90" ELBOW, STPY,12, 300A D17M-458	Nos	1	1					
3823	T-9/10591B	TEE, 6X12X160, D17M-369	Nos	1	1					
3824	T-9/10591A	PIPE, 106CRE, 12X160X5500, D17M-201	Nos	1	1					
3825	T-9/10591A1	90" ELBOW, WPC,16X44, D17M-437-1	Nos	1	1					
3826	T-9/10592	PIPE, 106 CRC 12X37X5500, D17M-202	Nos	1	1					
3827	T-9/10592B	90" ELBOW, A387, 18X23, D17M-440-1	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3828	T-9/10592A	PIPE, 106 GRC 3X160X5500, D17M-204	Nos	1	1					
3829	T-9/10592A1	90" ELBOW, STPT38, 200X40, D17M-467	Nos	1	1					
3830	T-9/10593	PIPE, 106 GRC 6X160X5500, D17M-205	Nos	1	1					
3831	T-9/10593B	90" ELBOW, STPT38, 250X40, D17M-468	Nos	1	1					
3832	T-9/10593A	PIPE, 106 GRC 6X24X5500, D17M-206	Nos	1	1					
3833	T-9/10593A1	90" ELBOW, STPT38, 300X40, D17M-469	Nos	1	1					
3834	T-9/10594	REDUCER CAN STPT, 38, 200X400, D17M-304	Nos	1	1					
3835	T-9/10594B	90" ELBOW, STPT38, 400X40, D17M-471	Nos	1	1					
3836	T-9/10594A	REDUCER CAN STPT, 38, 250X400, D17M-307	Nos	1	1					
3837	T-9/10594A1	REDUCER ECE , 350X500,AB100PS142 D17M-340	Nos	1	1					
3838	T-9/10595	REDUCER CAN STPT, 38, 350X400, D17M-309	Nos	1	1					
3839	T-9/10595B	REDUCER ECE, STPT,38, 50AX80AX40,B100PS159, D17M-357	Nos	1	1					
3840	T-9/10595A	REDUCER CAN, STPT,38, 150AX350AX40, D17M-352	Nos	1	1					
3841	T-9/10595A1	SPARE VALVE, SCPH-2, 600LB300A, D17M028.	Nos	1	1					
3842	T-9/10596	REDUCER CAN ECE, STPT,38, 300AX400AX40, D17M-356	Nos	1	1					
3843	T-9/10596B	SPARE VALVE, SCPH-2, 600LB350A, D17M029.	Nos	1	1					
3844	T-9/10596A	TEE,WPC, 12"X16"X35, D17M-368	Nos	1	1					
3845	T-9/10596A1	SPARE VALVE, SCPH-2, 600LB,FPB-S-6, D17M030	Nos	1	1					
3846	T-9/105997	TEE,WPC, 6"X16"X20, D17M-370	Nos	1	1					
3847	T-9/10597B	SPARE VALVE, SCPH-2, 600LB,300A, D17M033	Nos	1	1					
3848	T-9/10597A	TEE,WPC, 6"X6"X160, D17M-371	Nos	1	1					
3849	T-9/10597A1	WEDGE GATE VALVE, 2000LB D17M101	Nos	1	1					
3850	T-9/10598	TEE,STPT, 38 350X450A, D17M-428-1	Nos	1	1					
3851	T-9/10598B	SWING CHECK VALVE, 2000LB, 300A, D17M-102	Nos	1	1					
3852	T-9/10598A	90" ELBOW, STPY,41, 450X7st, D17M-441-1	Nos	1	1					
3853	T-9/10598A1	WEDGE GATE VALVE, 2000LB, D17M103	Nos	1	1					
3854	T-9/10599	90" ELBOW, STPY,41, 550X12st, D17M-443-1	Nos	1	1					
3855	T-9/10599B	VALVE, 2000WG, 150 D17M104	Nos	2	2					
3856	T-9/10599A	90" ELBOW, STPY,41, 600AX7st, D17M-445	Nos	1	1					

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3857	T-9/10599A1	VALVE, 4500GL 25, 150 D17M105	Nos	2	2					
3858	T-9/10600	90" ELBOW, FSGP, 150A D17M-448	Nos	1	1					
3859	T-9/10600B	GLOBE VALVE, 150 LB, 40A, D17M-171	Nos	1	1					
3860	T-9/10600A	90" ELBOW, SM41A, 600AX18t D17M-457	Nos	1	1					
3861	T-10/10601	GLOBE VALVE, 150 LB, 25A, D17M-173	Nos	2	2					
3862	T-10/10601A	GLOBE VALVE, 600 LB, 40A, D17M-161	Nos	1	1					
3863	T-10/10602A	GLOBE VALVE, 600 LB, 25A, D17M-163	Nos	1	1					
3864	T-10/10603	GLOBE VALVE, 260A, D17M-164	Nos	1	1					
3865	T-10/10603A	GLOBE VALVE, 15A, D17M-165	Nos	1	1					
3866	T-10/10604	VALVE,F-22, 1500 LB, 25A, D17M-024	Nos	2	2					
3867	T-10/10604A	FLOOT SEAT, D17M-571	Nos	2	2					
3868	T-10/10605	GASKET, 58X4, D17M-572	Nos	2	2					
3869	T-10/10605A	GASKET, 58X4, D17M-573	Nos	2	2					
3870	T-10/10606	GASKET, 42X26, D17M-574	Nos	2	2					
3871	T-10/10606A	FLOOT SEAT, D17M-576	Nos	1	1					
3872	T-10/10607	GASKET, 58X42, D17M-577	Nos	1	1					
3873	T-10/10607A	GASKET, 130X96, D17M-578	Nos	1	1					
3874	T-10/10608	GASKET, 42X26, D17M-579	Nos	1	1					
3875	T-10/10608A	FLOOT SEAT, D17M-581	Nos	2	2					
3876	T-10/10609	GASKET, 58X42, D17M-582	Nos	2	2					
3877	T-10/10609A	GASKET, 130X96, D17M-583	Nos	2	2					
3878	T-10/10610	GASKET, 58X4, D17M-573	Nos							
3879	T-10/106	GASKET, 58X4, D17M-573	Nos							
3880	T-10/10601	GLOBE VALVE, 150 LB, 25A, D17M-173	Nos	2	2					
3881	T-10/10601A	GLOBE VALVE, 600 LB, 40A, D17M-161	Nos	1	1					
3882	T-10/10602A	GLOBE VALVE, 600 LB, 25A, D17M-163	Nos	1	1					
3883	T-10/10603	GLOBE VALVE, 260A, D17M-164	Nos	1	1					
3884	T-10/10603A	GLOBE VALVE, 15A, D17M-165	Nos	1	1					
3885	T-10/10604	VALVE,F-22, 1500 LB, 25A, D17M-024	Nos	2	2					
3886	T-10/10604A	FLOOT SEAT, D17M-571	Nos	2	2					
3887	T-10/10605	GASKET, 58X4, D17M-572	Nos	2	2					
3888	T-10/10605A	GASKET, 58X4, D17M-573	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
3889	T-10/10606	GASKET, 42X26, D17M-574	Nos	2	2					
3890	T-10/10606A	FLOOT SEAT, D17M-576	Nos	1	1					
3891	T-10/10607	GASKET, 58X42, D17M-577	Nos	1	1					
3892	T-10/10607A	GASKET, 130X96, D17M-578	Nos	1	1					
3893	T-10/10608	GASKET, 42X26, D17M-579	Nos	1	1					
3894	T-10/10608A	FLOOT SEAT, D17M-581	Nos	2	2					
3895	T-10/10609	GASKET, 58X42, D17M-582	Nos	2	2					
3896	T-10/10609A	GASKET, 130X96, D17M-583	Nos	2	2					
3897	T-10/10610	GASKET, 42X26, D17M-584	Nos	2	2					
3898	T-10/10610A	FLOAT SEAT, D17M-586	Nos	3	3					
3899	T-10/10611A	O" RING, D17M-588	Nos	3	3					
3900	T-10/10612	GASKET, 185X85, D17M-589	Nos	3	3					
3901	T-10/10612A	PACKING WITH "O" RING, D17M-600	Nos	3	3					
3902	T-10/10613	GASKET, D17M-601	Nos	3	3					
3903	T-10/10613A	FLOAT SEAT WITH "O" RING, D17M-602	Nos	2	2					
3904	T-10/10614	FLOAT SEAT, D17M-603	Nos	2	2					
3905	T-10/10614A	GASKET, 185X85, D17M-605	Nos	2	2					
3906	T-10/10615	O" RING, D17M-606	Nos	2	2					
3907	T-10/10615A	PACKING WITH "O" RING, D17M-607	Nos	2	2					
3908	T-10/10616A	FLOAT SEAT, D17M-609	Nos	1	1					
3909	T-10/10617	FLOAT SEAT, D17M-610	Nos	1	1					
3910	T-10/10617A	GASKET, 185X85, D17M-612	Nos	1	1					
3911	T-10/10618	O" RING 13, 135, D17M-613	Nos	1	1					
3912	T-10/10618A	PACKING D17M-614	Nos	1	1					
3913	T-10/10619	GASKET, D17M-615	Nos	1	1					
3914	T-10/10619A	GASKET, 41X27, D17M-616	Nos	1	1					
3915	T-10/10620	O" RING S20, D17M-617	Nos	1	1					
3916	T-10/10620A	GASKET, 27X20, D17M-618	Nos	1	1					
3917	T-10/10621	GASKET, 58X90, D17M-619	Nos	1	1					
3918	T-10/10621A	PACKING, 4.8X90 D17M-620	Nos	1	1					
3919	T-10/10622	GASKET, 209X126, D17M-621	Nos	1	1					
3920	T-10/10622A	PACKING, D17M-622	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3921	T-10/10623	PILOT VALVE SEAT, D17M-623.	Nos	1	1					
3922	T-10/10624A	COVER GASKET, D17M-501	Nos	2	2					
3923	T-10/10625	GASKET, D17M-502	Nos	2	2					
3924	T-10/10625A	COVER GASKET, D17M-503	Nos	1	1					
3925	T-10/10626A	COVER GASKET, D17M-505	Nos	1	1					
3926	T-10/10627	GASKET, D17M-506	Nos	1	1					
3927	T-10/10627A	COVER GASKET, D17M-507	Nos	1	1					
3928	T-10/10628	GASKET, D17M-508	Nos	1	1					
3929	T-10/10628A	COVER GASKET, D17M-509	Nos	1	1					
3930	T-10/10629	COVER GASKET, D17M-510	Nos	1	1					
3931	T-10/10629A	COVER GASKET, D17M-511	Nos	1	1					
3932	T-10/10630A	COVER GASKET, D17M-513	Nos	1	1					
3933	T-10/10631	GASKET, D17M-514	Nos	1	1					
3934	T-10/10631A	COVER GASKET, D17M-515	Nos	3	3					
3935	T-10/10632	GASKET, D17M-516	Nos	3	3					
3936	T-10/10632A	COVER GASKET, D17M-517	Nos	1	1					
3937	T-10/10633	GASKET, D17M-518	Nos	1	1					
3938	T-10/10633A	COVER GASKET, D17M-519	Nos	3	3					
3939	T-10/10634	GASKET, D17M-520	Nos	3	3					
3940	T-10/10634A	COVER GASKET, D17M-521	Nos	1	1					
3941	T-10/10635	GASKET, D17M-522	Nos	1	1					
3942	T-10/10635A	GLAND PACKING, D17M-523	Nos	6	6					
3943	T-10/10636	BONNAT GASKET, D17M-524	Nos	6	6					
3944	T-10/10636A	GLAND PACKING, D17M-525	Nos	3	3					
3945	T-10/10637	BONNAT GASKET, D17M-526	Nos	3	3					
3946	T-10/10637A	GLAND PACKING, D17M-527	Nos	10	10					
3947	T-10/10638	BONNAT GASKET, D17M-528	Nos	10	10					
3948	T-10/10638A	GLAND PACKING, D17M-529	Nos	5	5					
3949	T-10/10639	BONNAT GASKET, D17M-530	Nos	5	5					
3950	T-10/10639A	GLAND PACKING, D17M-531	Nos	7	7					
3951	T-10/10640	BONNAT GASKET, D17M-532	Nos	7	7					
3952	T-10/10640A	GLAND PACKING, D17M-533	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
3953	T-10/10641	BONNAT GASKET, D17M-534	Nos	3	3					
3954	T-10/10641A	GLAND PACKING, D17M-535	Nos	1	1					
3955	T-10/10642	BONNAT GASKET, D17M-536	Nos	1	1					
3956	T-10/10642A	GLAND PACKING, D17M-537	Nos	1	1					
3957	T-10/10643	BONNAT GASKET, D17M-538	Nos	1	1					
3958	T-10/10643A	GLAND PACKING, D17M-539	Nos	1	1					
3959	T-10/10644	BONNAT GASKET, D17M-540	Nos	1	1					
3960	T-10/10644A	GLAND PACKING, D17M-541	Nos	3	3					
3961	T-10/10645	BONNAT GASKET, D17M-542	Nos	3	3					
3962	T-10/10645A	GLAND PACKING, D17M-543	Nos	3	3					
3963	T-10/10646	GASKET, D17M-544	Nos	3	3					
3964	T-10/10646A	GLAND PACKING, D17M-545	Nos	1	1					
3965	T-10/10647	GASKET, D17M-546	Nos	1	1					
3966	T-10/10647A	GLAND PACKING, D17M-547	Nos	3	3					
3967	T-10/10648	GASKET, D17M-548	Nos	3	3					
3968	T-10/10648A	GLAND PACKING, D17M-549	Nos	2	2					
3969	T-10/10649	GASKET, D17M-550	Nos	2	2					
3970	T-10/10649A	GLAND PACKING, D17M-551	Nos	1	1					
3971	T-10/10650	GASKET, D17M-552	Nos	1	1					
3972	T-10/10651	O" RING, D17M-554	Nos	1	1					
3973	T-10/10651A	O" RING, D17M-555	Nos	2	2					
3974	T-10/10652	O" RING, D17M-556	Nos	1	1					
3975	T-10/10652A	O" RING, D17M-557	Nos	2	2					
3976	T-10/10654	GASKET, D11M-003	Nos	2	2					
3977	T-10/10654A	GASKET, D11M-004	Nos	4	4					
3978	T-10/10655	GASKET, D11M-005	Nos	2	2					
3979	T-10/10656A	GASKET, D13M-003	Nos	2	2					
3980	T-10/10657	GASKET, D13M-004	Nos	4	4					
3981	T-10/10659A	BALL BEARING, E08M-001	Nos	1	1					
3982	T-10/10660	BALL BEARING, E08M-002	Nos	1	1					
3983	T-10/10660A	GLAND PACKING, F08M-003	Nos	4	4					
3984	T-10/10661	PACKING SLEEVE, E08M-004	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3985	T-10/10661A	STUFFING BOX PACKING, D0GR-001	Nos	196	196					
3986	T-10/10662	O" RING, D06R-002	Nos	181	181					
3987	T-10/10662A	O" RING, D06R-003	Nos	13	13					
3988	T-10/10663	O" RING, D06R-004	Nos	177	177					
3989	T-10/10663A	O" RING, D06R-005	Nos	40	40					
3990	T-10/10664	O" RING, D06R-006	Nos	36	36					
3991	T-10/10666	SHAFT PROTECTING SLEEVE, D06R-010	Nos	3	3					
3992	T-10/10666A	CASING WEAR RING, D06R-010	Nos	42	42					
3993	T-10/10667	CASING WEAR RING, D06R-011	Nos	5	5					
3994	T-10/10667A	FLAT GASKET, 1335S-2,1,3, D06R-013	Nos	45	45					
3995	T-10/10668A	BALL BEARING, D2OR-001	Nos	4	4					
3996	T-10/10669	GALND PACKING, D20R-002	Nos	40	40					
3997	T-10/10669A	GASKET, D20R-003	Nos	10	10					
3998	T-10/10670	GASKET, D20R-004	Nos	20	20					
3999	T-10/10670A	PACKING LEAVE, D20R-005	Nos	2	2					
4000	T-10/10671	CASING WEAR RING, D20R-006	Nos	4	4					
4001	T-10/10671A	OIL SEAL, D20R-007	Nos	20	20					
4002	T-10/10673	GASKET, D11R-003	Nos	33	33					
4003	T-10/10673A	GASKET, D11R-004	Nos	90	90					
4004	T-10/10674	GASKET, D11R-005	Nos	45	45					
4005	T-10/10675	CASING WEAR RING, D11R-007	Nos	6	6					
4006	T-10/10675A	OIL SEAL, D11R-008	Nos	80	80					
4007	T-10/10676	SCREEN, B42S-2-9, DO11R-9	Nos	3	3					
4008	T-10/10676A	STUFFING BOX PACKING, E21R-001	Nos	20	20					
4009	T-10/10677	FLAT GASKET, E21R-002	Nos	5	5					
4010	T-10/10677A	FLAT GASKET, E21R-003	Nos	5	5					
4011	T-10/10678	FLAT GASKET, E21R-004	Nos	5	5					
4012	T-10/10678A	FLAT GASKET, E21R-005	Nos	5	5					
4013	T-10/10679	FLAT GASKET, E21R-006	Nos	5	5					
4014	T-10/10679A	FLAT GASKET, E21R-007	Nos	5	5					
4015	T-10/10680	BALL BEARING, E21R-008	Nos	1	1					
4016	T-10/10680A	ROLLER BEARING, E21R-009	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4017	T-10/10681	O" RING, E21R-010	Nos	5	5					
4018	T-10/10681A	O" RING, E21R-011	Nos	5	5					
4019	T-10/10682	O" RING, E21R-012	Nos	5	5					
4020	T-10/10682A	OIL SEAL, E21R-013	Nos	5	5					
4021	T-10/10683	OIL SEAL, E21R-014	Nos	5	5					
4022	T-10/10683A	WEAR PLATE, F21R-015	Nos	1	1					
4023	T-10/10684	SHAFT PROTECTING SLEEVE, B47S,2,16, E21R-016	Nos	1	1					
4024	T-10/10684A	BALL BEARING, D13R-001,	Nos	1	1					
4025	T-10/10685	GLAND PACKING, D13R-002	Nos	81	81					
4026	T-10/10685A	GASKET, D13R-003	Nos	20	20					
4027	T-10/10686	GASKET, D13R-004	Nos	12	12					
4028	T-10/10686A	PACKING SLEEVE, D13R-005	Nos	2	2					
4029	T-10/10687	CASING WEAR RING, D13R-006	Nos	4	4					
4030	T-10/10687A	OIL SEAL, D13R-007	Nos	36	36					
4031	T-10/10689	GLAND PACKING, D19R-003	Nos	18	18					
4032	T-10/10689A	FLAT GASKET, D19R-004	Nos	17	17					
4033	T-10/10690	FLAT GASKET, D19R-005	Nos	18	18					
4034	T-10/10690A	FLAT GASKET, D19R-006	Nos	18	18					
4035	T-10/10691	FLAT GASKET, D19R-007	Nos	14	14					
4036	T-10/10691A	PACKING, D19R-008	Nos	36	36					
4037	T-10/10692A	O" RING, D19R-010	Nos	18	18					
4038	T-10/10693	O" RING, D19R-011	Nos	36	36					
4039	T-10/10693A	O" RING, D19R-012	Nos	36	36					
4040	T-10/10694	CASING WEAR RING, D19R-013	Nos	4	4					
4041	T-10/10694A	SCREEN FOR Y TYPE STRAINER, B55S-2-4, D19R-014	Nos	2	2					
4042	T-10/10695	SPARE UNIT 400V CONT: CENTRE 0.2KW, G12M-001	Nos	1	1					
4043	T-10/10695A	SPARE UNIT 400V CONT: CENTRE 2.2KW, G12M-002	Nos	1	1					
4044	T-10/10696	SPARE UNIT 400V CONT: CENTRE 3.7KW, G12M-003	Nos	1	1					
4045	T-10/10696A	SPARE UNIT 400V CONT: CENTRE 5.5KW, G12M-004	Nos	1	1					
4046	T-10/10697	SPARE UNIT 400V CONT: CENTRE 7.5KW, G12M-005	Nos	1	1					
4047	T-10/10697A	SPARE UNIT 400V CONT: CENTRE 30 KW, G12M-006	Nos	1	1					
4048	T-10/10698	CASING RING, E04M-230	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
4049	T-10/10698A	LINER RING, E04M-298	Nos	3	3					
4050	T-10/10699	LINER RING, E04M-297	Nos	3	3					
4051	T-10/10699A	BALL BEARING, 6206, D12M-001	Nos	2	2					
4052	T-10/10700A	DIAPHRAGM TEFLON , D12M-003	Nos	1	1					
4053	T-11/10702A	GAUGE GLASS, D12M-007	Nos	1	1					
4054	T-11/10703	INDICATION LAMP, 18V, D12M-008	Nos	8	8					
4055	T-11/10703A	INDICATION LAMP, 18V, D12M-009	Nos	12	12					
4056	T-11/10704	INDICATION LAMP, 18V, D12M-010	Nos	12	12					
4057	T-11/10704A	BEARING,6202, D12M-011	Nos	5	5					
4058	T-11/10705	BALL BEARING, 6206, D15M-001	Nos	2	2					
4059	T-11/10707A	VALVE SEAT GASKET, D15M-006	Nos	15	15					
4060	T-11/10708	GAUGE GLASS, D15M-007	Nos	2	2					
4061	T-11/10708A	INDICATION LAMP, D15M-008	Nos	4	4					
4062	T-11/10709	INDICATION LAMP, D15M-009	Nos	6	6					
4063	T-11/10709A	INDICATION LAMP, D15M-010	Nos	6	6					
4064	T-11/10710	BEARING, 6202, D15M-011	Nos	3	3					
4065	T-11/10710A	PVC VALVE, 20A, D17M-141	Nos	2	2					
4066	T-11/10711	PVC VALVE, 20A, D17M-142	Nos	1	1					
4067	T-11/10711A	GLASS FOR SIGHT FLOW, D17M-151	Nos	3	3					
4068	T-11/10712	GLASS FOR SIGHT FLOW, D17M-152	Nos	4	4					
4069	T-11/10712A	M SPARE LAMP FOR CHILLER AC-1025	Nos	32	32					
4070	T-11/10713	M SPARE GLAND PACKING FOR VALVE AC-1036	Nos	130	130					
4071	T-11/10713A	CONTROL RELAY, KO1M-031, AC-110	Nos	288	288					
4072	T-11/10714	CONTROL RELAY, KO1M-032	Nos	15	15					
4073	T-11/10714A	PUSH BUTTON SWITCH, KO1M-033	Nos	63	63					
4074	T-11/10715	PUSH BUTTON SWITCH, KO1M-034	Nos	15	15					
4075	T-11/10715A	PUSH BUTTON SWITCH, KO1M-035	Nos	69	69					
4076	T-11/10716	EXPENSION TAULL M SPARE PACKING FOR 80A I 07M-00	Nos	2	2					
4077	T-11/10716A	EXPENSION TAULL M SPARE PACKING FOR 65A I 07M-00	Nos	2	2					
4078	T-11/10717	M SPARE FILTER ELEMENT I06M-001	Nos	2	2					
4079	T-11/10717A	M SPARE FILTER ELEMENT I06M-002	Nos	2	2					
4080	T-11/10718	M SPARE FILTER ELEMENT I06M-003	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4081	T-11/10718A	M SPARE FILTER ELEMENT I06M-004	Nos	2	2					
4082	T-11/10729	CONTROL SWITCH, D18M-215	Nos	1	1					
4083	T-11/10730	DIFFERNTIAL TRANSDUCER,,C03M-666	Nos	1	1					
4084	T-11/10730A	DIFFERNTIAL TRANSDUCER,,C03M-667	Nos	1	1					
4085	T-11/10731	MOTOR FOR HSD OIL PUMP 7.5KW 4P, 380V, F02M-508	Nos	1	1					
4086	T-11/10732	GLAND PACKING, 2630, D12R-002	Nos	12	12					
4087	T-11/10732A	BALL VALVE, D12R-003	Nos	4	4					
4088	T-11/10733	VALVE SEAT GASKET D12R-004	Nos	4	4					
4089	T-11/10733A	VALVE SEAT GASKET D12R-005	Nos	10	10					
4090	T-11/10734	R. SPARE FILTER ELEMENT I06R-001	Nos	5	5					
4091	T-11/10734A	R. SPARE FILTER ELEMENT I06R-002	Nos	5	5					
4092	T-11/10735	R. SPARE FILTER ELEMENT I06R-003	Nos	5	5					
4093	T-11/10735A	R. SPARE FILTER ELEMENT I06R-004	Nos	5	5					
4094	T-11/10736A	CONTROL SWITCH, CO1R-954	Nos	1	1					
4095	T-11/10737	LAMP, CO1R-955	Nos	48	48					
4096	T-11/10738A	GAUGE GLASS, D12R-007	Nos	2	2					
4097	T-11/10739A	INDICATION LAMP, D12R-009	Nos	48	48					
4098	T-11/10740	INDICATION LAMP, D12R-010	Nos	26	26					
4099	T-11/10740A	BEARING, 6202, D12R-011	Nos	8	8					
4100	T-11/10741A	GLAND PACKING, D15R-002	Nos	18	18					
4101	T-11/10742	DIAPHRAGM, D15R-003	Nos	3	3					
4102	T-11/10742A	BALL VALVE, D15R-004	Nos	4	4					
4103	T-11/10743	VALVE SEAT, D15R-005	Nos	4	4					
4104	T-11/10743A	VALVE SEAT GASKET, D15R-006	Nos	20	20					
4105	T-11/10744	GAUGE GLASS, D15R-007	Nos	1	1					
4106	T-11/10744A	INDICATION LAMP, D15R-008	Nos	4	4					
4107	T-11/10745	INDICATION LAMP, D15R-009	Nos	6	6					
4108	T-11/10745A	INDICATION LAMP, D15R-010	Nos	6	6					
4109	T-11/10746	BEARING, 6202, D15R-011	Nos	1	1					
4110	T-11/10760A	BEARING FOR FAN, I02M-001	Nos	1	1					
4111	T-11/10761A	V BELT 98* FOR FAN, I02M-003	Nos	8	8					
4112	T-11/10762A	BEARING FOR FAN, I02M-006	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4113	T-11/10763	V BELT 98* FOR FAN, I02M-007	Nos	4	4					
4114	T-11/10763A	BEARING FOR FAN, I02M-009	Nos	1	1					
4115	T-11/10764	BEARING FOR FAN, I02M-010	Nos	1	1					
4116	T-11/10764A	V BELT FOR FAN 97, I02M-011	Nos	5	5					
4117	T-11/10765	BEARING FOR FAN, I02M-013	Nos	1	1					
4118	T-11/10766	V BELT FOR FAN 86, I02M-015	Nos	2	2					
4119	T-11/10766A	BEARING FOR FAN, I02M-017	Nos	1	1					
4120	T-11/10767	BEARING FOR FAN, I02M-018	Nos	1	1					
4121	T-11/10767A	SPARE PARTS OF CHILLER, I01M-021-040	Nos	11	11					
4122	T-11/10768	SPARE PARTS OF CHILLER, I01M-001-020	Nos	48	48					
4123	T-11/10768A	V BELT FOR FAN 87, I02M-019	Nos	4	4					
4124	T-11/10769	BEARING FOR FAN, I02M-021	Nos	1	1					
4125	T-11/10769A	BEARING FOR FAN, I02M-022	Nos	1	1					
4126	T-11/10770A	BEARING FOR FAN, I02M-025	Nos	1	1					
4127	T-11/10771	BEARING FOR FAN, I02M-026	Nos	1	1					
4128	T-11/10772A	BEARING FOR FAN, I02M-030	Nos	1	1					
4129	T-11/10774A	V BELT FOR FAN 86, I02M-035	Nos	8	8					
4130	T-11/10775A	BEARING FOR FAN, I02M-038	Nos	1	1					
4131	T-11/10776A	BEARING FOR FAN, I02M-041	Nos	1	1					
4132	T-11/10777	BEARING FOR FAN 54" , I02M-042	Nos	1	1					
4133	T-11/10778A	V BELT FOR CT , I05M-004	Nos	6	6					
4134	T-11/10780	BALL TAP FOR CT, I05M-006	Nos	1	1					
4135	T-11/10780A	PACKING FOR CT, I05M-007	Nos	2	2					
4136	T-11/10782A	BALL TAP FOR CT, I05M-003	Nos	6	6					
4137	T-11/10783	GLAND PACKING, I04M-1,7,13,19,25,31	Nos	220	220					
4138	T-11/10784	OIL SEAL, I04M-4,10,16,22,28,34	Nos	20	20					
4139	T-11/10784A	CASING WEARING RING, 13-158-060, I04M-5,11,17,23,29,35	Set	1	1					
4140	T-11/10785	DEFLOCTOR, I04M-6,12,18,24,30,36	Set	24	24					
4141	T-11/10785A	SEAT PACKING GASKET, I04M-2,3,8,9,14,15,20,21,24,27,32,3	Set	1	1					
4142	T-11/10786	V BELT FOR MPH 80 , I03M-001	Nos	2	2					
4143	T-11/10786A	BEARING FOR MPH 80 , I03M-002	Nos	2	2					
4144	T-11/10787	BEARING FOR MPH 80 , I03M-003	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4145	T-11/10787A	MOTOR BEARING FOR MPH 80 , I03M-004	Nos	1	1					
4146	T-11/10788	V BELT FOR MPH 80 , I03M-005	Nos	2	2					
4147	T-11/10788A	BEARING FOR MPH 80 , I03M-006	Nos	2	2					
4148	T-11/10789	BEARING FOR MPH 80 , I03M-007	Nos	2	2					
4149	T-11/10789A	MOTOR BEARING , I03M-008	Nos	4	4					
4150	T-11/10790	V BELT A54, I03M-009	Nos	4	4					
4151	T-11/10790A	BEARING A54 , I03M-010	Nos	4	4					
4152	T-11/10791A	MOTOR BEARING , I03M-012	Nos	2	2					
4153	T-11/10792A	MOTOR BEARING , 6204 I03M-014	Nos	2	2					
4154	T-11/10793A	MOTOR BEARING ,6306 I03M-016	Nos	7	7					
4155	T-11/10796A	MOTOR BEARING ,6206 I03M-022	Nos	2	2					
4156	T-11/10797A	MOTOR BEARING ,6206 I03M-024	Nos	2	2					
4157	T-11/10798	MOTOR BEARING ,6205 I03M-025	Nos	6	6					
4158	T-11/10799	MOTOR BEARING ,6205 I03M-027	Nos	1	1					
4159	T-11/10799A	MOTOR BEARING ,6206 I03M-028	Nos	8	8					
4160	T-11/10800	MOTOR BEARING ,6205 I03M-029	Nos	2	2					
4161	T-12/10801A	MOTOR BEARING ,6201 I03M-032	Nos	8	8					
4162	T-12/10803A	MOTOR BEARING ,6306 I03M-036	Nos	8	8					
4163	T-12/10804	SPARE GLAND PACKING, I08M-019	Nos	32	32					
4164	T-12/10804A	LAMP, (A11X130) B158-100, K01M-001	Nos	948	948					
4165	T-12/10805	FUSE, (BLA003) B158, K01M-10	Nos	20	20					
4166	T-12/10805A	FUSE, (BLA003) B158, K01M-102	Nos	8	8					
4167	T-12/10806	INDOOR WALL TYPE HANDSET, G16M-001	Nos	2	2					
4168	T-12/10806A	FLUSH MOUNT TYPE HANDSET G16M-002	Nos	2	2					
4169	T-12/10807	DESK TOP HANDSET G16M-003	Nos	2	2					
4170	T-12/10807A	INDOOR WALL TYPE CORN SPEAKER, G16M-004	Nos	2	2					
4171	T-12/10808	OUT DOOR HORN TYPE SPEAKER, G16M-005	Nos	4	4					
4172	T-12/10808A	PACKING FOR UCL 20AX15X9 1/2X9, E07M-198	Nos	1	1					
4173	T-12/10810A	BALL BEARING, E041M-011	Nos	4	4					
4174	T-12/10811	BALL BEARING, E04M-012	Nos	2	2					
4175	T-12/10811A	THURST BEARING, E04M-013	Nos	4	4					
4176	T-12/10812	NEEDLE BEARING, E04M-014	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4177	T-12/10813A	NEEDLE BEARING, E04M-015	Nos	2	2					
4178	T-12/10814A	THURST WASHER, E04M-092	Nos	2	2					
4179	T-12/10815	NEEDLE BEARING, E04M-016	Nos	2	2					
4180	T-12/10815A	GASKET, E04M-094	Nos	2	2					
4181	T-12/10816	GASKET OIL SHEET, E04M-095	Nos	4	4					
4182	T-12/10816A	GASKET, E04M-096	Nos	2	2					
4183	T-12/10817	DIAPHRAGM, E04M-088	Nos	2	2					
4184	T-12/10817A	OIL SEAL E04M-093	Nos	2	2					
4185	T-12/10818	O" RING, E04M-097	Nos	2	2					
4186	T-12/10818A	U PACKING, E04M-098	Nos	2	2					
4187	T-12/10819	GASKET, E04M-099	Nos	12	12					
4188	T-12/10819A	BALL BEARING, E04M-017	Nos	4	4					
4189	T-12/10820	BALL BEARING, E04M-018	Nos	2	2					
4190	T-12/10820A	THRUST BEARING E04M-019	Nos	4	4					
4191	T-12/10821	NEEDLE BEARING, E04M-020	Nos	2	2					
4192	T-12/10821A	NUT, 13X4, E04M-101	Nos	2	2					
4193	T-12/10822	WASHER, E04M-102	Nos	2	2					
4194	T-12/10822A	NEEDLE BEARING, E04M-021	Nos	2	2					
4195	T-12/10823	THRUST WASHER E04M-103	Nos	4	4					
4196	T-12/10823A	THRUST WASHER E04M-104	Nos	2	2					
4197	T-12/10824	NEEDLE BEARING, E04M-022	Nos	2	2					
4198	T-12/10824A	GASKET ASBOSTOS, E04M-106	Nos	2	2					
4199	T-12/10825	GASKET OIL SHEET, E04M-107	Nos	4	4					
4200	T-12/10825A	GASKET ASBOSTOS, E04M-108	Nos	2	2					
4201	T-12/10826	DIAPHRAGM, E04M-100	Nos	2	2					
4202	T-12/10826A	OIL SEAL, E04M-105	Nos	2	2					
4203	T-12/10827	O" RING, E04M-114	Nos	2	2					
4204	T-12/10827A	U" PACKING, E04M-115	Nos	2	2					
4205	T-12/10828	GASKET, E04M-116	Nos	12	12					
4206	T-12/10828A	THRUST BEARING, E04M-023	Nos	4	4					
4207	T-12/10829	NEEDLE BEARING, E04M-024	Nos	2	2					
4208	T-12/10829A	TAPPER ROLLER BEARING, E04M-025	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
4209	T-12/10830	BALL BEARING, E04M-026	Nos	2	2					
4210	T-12/10830A	THRUST BEARING, E04M-027	Nos	4	4					
4211	T-12/10831	NEEDLE BEARING, E04M-028	Nos	2	2					
4212	T-12/10831A	GASKET ASBOSTOS , E04M-113	Nos	2	2					
4213	T-12/10832	O" RING, E04M-109	Nos	4	4					
4214	T-12/10832A	GASKET ASBOSTOS , E04M-110	Nos	2	2					
4215	T-12/10833A	GASKET ASBOSTOS , E04M-112	Nos	2	2					
4216	T-12/10834A	OIL SEAL, E04M-118/111	Nos	1	1					
4217	T-12/10835	O" RING, E04M-127	Nos	2	2					
4218	T-12/10835A	GASKET, E04M-129	Nos	4	4					
4219	T-12/10836A	BALL BEARING, , E04M-029	Nos	4	4					
4220	T-12/10837	BALL BEARING, E04M-030	Nos	2	2					
4221	T-12/10837A	THRUST BEARING, E04M-031	Nos	4	4					
4222	T-12/10838	NEEDLE BEARING, E04M-032	Nos	2	2					
4223	T-12/10838A	NUT, 18X4, , E04M-119	Nos	2	2					
4224	T-12/10839	WASHER, E04M-120	Nos	2	2					
4225	T-12/10839A	NEEDLE BEARING, E04M-033	Nos	2	2					
4226	T-12/10840	THRUST WASHER, E04M-121	Nos	4	4					
4227	T-12/10840A	THRUST WASHER, E04M-122	Nos	2	2					
4228	T-12/10841	NEEDLE BEARING, E04M-039	Nos	2	2					
4229	T-12/10841A	GASKET ASBOSTOS, E04M-124	Nos	2	2					
4230	T-12/10842A	GASKET ASBOSTOS, E04M-126	Nos	2	2					
4231	T-12/10843	OIL SEAL, E04M-123	Nos	2	2					
4232	T-12/10843A	DIAPHRAGM, E04M-130	Nos	2	2					
4233	T-12/10844	O" RING, E04M-131	Nos	2	2					
4234	T-12/10844A	U" PACKING E04M-132	Nos	2	2					
4235	T-12/10845	GASKET, E04M-133	Nos	12	12					
4236	T-12/10845A	BALL BEARING, E04M-035	Nos	4	4					
4237	T-12/10846	BALL BEARING, E04M-036	Nos	2	2					
4238	T-12/10846A	BALL BEARING, E04M-037	Nos	4	4					
4239	T-12/10847	NEEDLE BEARING, E04M-038	Nos	2	2					
4240	T-12/10847A	NUT, E04M-135	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4241	T-12/10848	WASHER, E04M-136	Nos	2	2					
4242	T-12/10849	THRUST 'WASHER, E04M-137	Nos	4	4					
4243	T-12/10849A	THRUST 'WASHER, E04M-138	Nos	2	2					
4244	T-12/10850	GASKET, E04M-140	Nos	2	2					
4245	T-12/10850A	GASKET OIL SHEET, E04M-141	Nos	4	4					
4246	T-12/10851	GASKET, E04M-142	Nos	2	2					
4247	T-12/10851A	GASKET, E04M-143	Nos	2	2					
4248	T-12/10852	O" RING, E04M-144	Nos	2	2					
4249	T-12/10852A	O" RING, E04M-145	Nos	2	2					
4250	T-12/10853A	OIL SEAL, E04M-139	Nos	2	2					
4251	T-12/10855A	O" RING, E04M-148	Nos	2	2					
4252	T-12/10856	O" RING, E04M-149	Nos	2	2					
4253	T-12/10856A	O" RING, E04M-150	Nos	4	4					
4254	T-12/10857	OIL SEAL, E04M-151	Nos	2	2					
4255	T-12/10857A	OIL SEAL, E04M-152	Nos	2	2					
4256	T-12/10858	GAS SEAL, E04M-153	Nos	2	2					
4257	T-12/10858A	GAS SEAL PLATE, E04M-154	Nos	2	2					
4258	T-12/10859	BELT & RUBBER, E04M-155	Nos	4	4					
4259	T-12/10860A	BALL BEARING, E04M-010, 6320	Nos	1	1					
4260	T-12/10864A	O"RING E04M-084	Nos	2	2					
4261	T-12/10865A	SHAFT SLEEVE, E05M-008	Nos	2	2					
4262	T-12/10866	PACKING SLEEVE, E05M-007	Nos	3	3					
4263	T-12/10866A	BALL BEARING, E05M-004	Nos	3	3					
4264	T-12/10867	GASKET, E05M-015	Nos	3	3					
4265	T-12/10867A	GASKET, E05M-014	Nos	3	3					
4266	T-12/10868	O"RING E05M-012	Nos	15	15					
4267	T-12/10868A	O"RING E05M-013	Nos	3	3					
4268	T-12/10869	O"RING E05M-011	Nos	20	20					
4269	T-12/10869A	O"RING E05M-010	Nos	3	3					
4270	T-12/10870	O"RING E05M-009	Nos	3	3					
4271	T-12/10870A	GLAND PACKING, E05M-016	Nos	12	12					
4272	T-12/10872	PACKING SLEEVE, E04M-170	Nos	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4273	T-12/10873A	GASKET, E04M-074	Nos	6	6					
4274	T-12/10874	GASKET, E04M-075	Nos	6	6					
4275	T-12/10875	O"RING E04M-072	Nos	18	18					
4276	T-12/10876	O"RING E04M-069	Nos	6	6					
4277	T-12/10877A	CASING GASKET, , E04M-060	Nos	2	2					
4278	T-12/10878	CASING GASKET, , E04M-061	Nos	2	2					
4279	T-12/10878A	SLEEVE GASKET, E04M-062	Nos	2	2					
4280	T-12/10879	GASKET, E04M-293	Nos	2	2					
4281	T-12/10879A	GASKET, E04M-294	Nos	2	2					
4282	T-12/10880	GASKET, E04M-063	Nos	2	2					
4283	T-12/10881A	GLAND PACKING, E04M-295	Nos	8	8					
4284	T-12/10883	SLEEVE GASKET, E04M-161	Nos	2	2					
4285	T-12/10883A	GASKET, E04M-162	Nos	2	2					
4286	T-12/10884	O" RING, E04M-164	Nos	2	2					
4287	T-12/10886	CASING GASKET, E04M-064	Nos	3	3					
4288	T-12/10886A	CASING GASKET, E04M-065	Nos	3	3					
4289	T-12/10887	CASING GASKET, E04M-066	Nos	3	3					
4290	T-12/10887A	SLEEVE GASKET, E04M-067	Nos	3	3					
4291	T-12/10888	GASKET, E04M-291	Nos	3	3					
4292	T-12/10888A	GASKET, E04M-292	Nos	3	3					
4293	T-12/10889	GASKET, E04M-068	Nos	3	3					
4294	T-12/10889A	BALL BEARING, E04M-003	Nos	1	1					
4295	T-12/10890A	GLAND PACKING, E04M-293	Nos	12	12					
4296	T-12/10891	PACKING SLEEVE, E04M-175	Nos	1	1					
4297	T-12/10891A	CASING GASKET, E04M-165	Nos	2	2					
4298	T-12/10892	SLEEVE GASKET, E04M-166	Nos	2	2					
4299	T-12/10895	BALL BEARING, E04M-041, 6201	Nos	9	9					
4300	T-12/10895A	BALL BEARING, E04M-042, 629	Nos	9	9					
4301	T-12/10897A	ROLLER BEARING, E04M-046, (337421117)	Nos	3	3					
4302	T-12/10898A	ROLLER BEARING, E04M-048	Nos	3	3					
4303	T-12/10899	ROLLER BEARING, E04M-049	Nos	3	3					
4304	T-12/10899A	BALL BEARING, E04M-050	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
4305	T-12/10900	BALL BEARING, E04M-051	Nos	3	3					
4306	T-12/10900A	ROLLER BEARING, E04M-053	Nos	4	4					
4307	T-13/10901	BALL BEARING, E04M-052/53	Nos	3	3					
4308	T-13/10901A	GAS KET, E04M-159	Nos	3	3					
4309	T-13/10902	GAS KET, E04M-156	Nos	3	3					
4310	T-13/10902A	GAS KET, E04M-157	Nos	3	3					
4311	T-13/10903	GAS KET, E04M-158	Nos	6	6					
4312	T-13/10903A	GAS KET, E04M-159	Nos	3	3					
4313	T-13/10912A	O" RING, 50A, E04M-199	Nos	1	1					
4314	T-13/10913	O" RING, 50A, E04M-200	Nos	1	1					
4315	T-13/10913A	O" RING, 50A, E04M-201	Nos	1	1					
4316	T-13/10914	O" RING, 50A, E04M-202	Nos	1	1					
4317	T-13/10914A	O" RING, 50A, E04M-203	Nos	1	1					
4318	T-13/10915	O" RING, 50A, E04M-204	Nos	1	1					
4319	T-13/10915A	O" RING, 125A, E04M-205	Nos	1	1					
4320	T-13/10916	O" RING, 125A, E04M-206	Nos	1	1					
4321	T-13/10916A	O" RING, 125A, E04M-207	Nos	1	1					
4322	T-13/10917	O" RING, 100A, E04M-208	Nos	1	1					
4323	T-13/10917A	O" RING, 100A, E04M-209	Nos	1	1					
4324	T-13/10918	O" RING, 100A, E04M-210	Nos	1	1					
4325	T-13/10918A	O" RING, 18A, E04M-211	Nos	1	1					
4326	T-13/10919	O" RING, 80A, E04M-212	Nos	1	1					
4327	T-13/10919A	O" RING, 80A, E04M-213	Nos	1	1					
4328	T-13/10920	O" RING, 65A, E04M-214	Nos	1	1					
4329	T-13/10920A	O" RING, 65A, E04M-215	Nos	1	1					
4330	T-13/10921	O" RING, 65A, E04M-216	Nos	1	1					
4331	T-13/10921A	O" RING, 65A, E04M-217	Nos	1	1					
4332	T-13/10922	O" RING, 65A, E04M-218	Nos	1	1					
4333	T-13/10922A	O" RING, 40A, E04M-219	Nos	1	1					
4334	T-13/10923	O" RING, 40A, E04M-220	Nos	1	1					
4335	T-13/10923A	O" RING, 40A, E04M-221	Nos	1	1					
4336	T-13/10924	O" RING, 45A, E04M-222	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4337	T-13/10924A	O" RING, 15A, E04M-223	Nos	1	1					
4338	T-13/10925A	GASKET, 20A, E04M-225	Nos	1	1					
4339	T-13/10926	GASKER, 20A, E04M-226	Nos	1	1					
4340	T-13/10926A	GASKET, , 15A, E04M-227	Nos	1	1					
4341	T-13/10927	GASKET, 50A, E04M-228	Nos	1	1					
4342	T-13/10927A	PACKING, E04M-229	Nos	1	1					
4343	T-13/10928	PACKING, E04M-230	Nos	1	1					
4344	T-13/10928A	SEAT RING, E04M-231	Nos	1	1					
4345	T-13/10929	O" RING, (UPPER) E04M-232	Nos	1	1					
4346	T-13/10929A	O" RING, (BOTTOM) E04M-233	Nos	1	1					
4347	T-13/10930	SEAT RING, E04M-234	Nos	1	1					
4348	T-13/10930A	O" RING, E04M-235	Nos	1	1					
4349	T-13/10931	O" RING, E04M-236	Nos	1	1					
4350	T-13/10931A	SEAT RING, E04M-237	Nos	1	1					
4351	T-13/10932	O" RING, E04M-238	Nos	1	1					
4352	T-13/10932A	O" RING, E04M-239	Nos	1	1					
4353	T-13/10933	SEAT RING, E04M-240	Nos	1	1					
4354	T-13/10933A	O" RING, E04M-241	Nos	1	1					
4355	T-13/10934	SEAT RING, E04M-242	Nos	1	1					
4356	T-13/10934A	O" RING, E04M-243	Nos	1	1					
4357	T-13/10935	SEAT RING, E04M-244	Nos	1	1					
4358	T-13/10936	SEAT RING, E04M-246	Nos	1	1					
4359	T-13/10937	SEAT RING, E04M-248	Nos	1	1					
4360	T-13/10937A	O" RING, E04M-249	Nos	4	4					
4361	T-13/10938	SEAT RING, E04M-250	Nos	1	1					
4362	T-13/10938A	O" RING, E04M-251	Nos	1	1					
4363	T-13/10939	GASKET, E04M-252	Nos	1	1					
4364	T-13/10939A	PACKING, E04M-253	Nos	1	1					
4365	T-13/10940	GASKET, E04M-254	Nos	1	1					
4366	T-13/10940A	GASKET, E04M-255	Nos	1	1					
4367	T-13/10941	GASKET, E04M-256	Nos	1	1					
4368	T-13/10942	GLAND PACKING, E04M-272	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4369	T-13/10942A	O" RING, E04M-273	Nos	1	1					
4370	T-13/10943A	GLAND PACKING, E04M-275	Nos	1	1					
4371	T-13/10944	O" RING, E04M-276	Nos	1	1					
4372	T-13/10945	GLAND PACKING, E04M-278	Nos	1	1					
4373	T-13/10945A	O" RING, E04M-279	Nos	1	1					
4374	T-13/10946A	GLAND PACKING, E04M-287	Nos	1	1					
4375	T-13/10947	O" RING, E04M-282	Nos	1	1					
4376	T-13/10947A	SEAT RING, E05M-018	Nos	1	1					
4377	T-13/10948	O" RING, E05M-019	Nos	2	2					
4378	T-13/10948A	O" RING, E05M-020	Nos	2	2					
4379	T-13/10949	SEAT RING, E05M-021	Nos	2	2					
4380	T-13/10949A	O" RING, E05M-022	Nos	2	2					
4381	T-13/10950	O" RING, E05M-023	Nos	2	2					
4382	T-13/10950A	SEAT RING, E05M-024	Nos	2	2					
4383	T-13/10951	O" RING, E05M-025	Nos	2	2					
4384	T-13/10951A	O" RING, E05M-026	Nos	2	2					
4385	T-13/10952	SEAT RING, E05M-027	Nos	2	2					
4386	T-13/10952A	O" RING, E05M-028	Nos	2	2					
4387	T-13/10953	SEAT E05M-029	Nos	2	2					
4388	T-13/10953A	O" RING, E05M-030	Nos	2	2					
4389	T-13/10954	SEAT RING, E05M-031	Nos	2	2					
4390	T-13/10954A	O" RING, E05M-032	Nos	2	2					
4391	T-13/10955	SEAT RING, E05M-033	Nos	2	2					
4392	T-13/10955A	O" RING, E05M-034	Nos	2	2					
4393	T-13/10956	O" RING, E05M-035	Nos	2	2					
4394	T-13/10956A	O" RING, E05M-036	Nos	2	2					
4395	T-13/10958	CASING GASKIT (E05M-057)	Nos	2	2					
4396	T-13/10958A	SLEEVE GASKIT (E05M-058)	Nos	2	2					
4397	T-13/10959	GASKIT , E05M-059	Nos	2	2					
4398	T-13/10960	GLAND PACKING, E05M-061	Nos	4	4					
4399	T-13/10962	GASKET, E05M-038	Nos	2	2					
4400	T-13/10962A	GASKET, 15A, E04M-257	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4401	T-13/10963	GASKET, 15A, E04M-258	Nos	1	1					
4402	T-13/10963A	GASKET, 15A, E04M-259	Nos	1	1					
4403	T-13/10964	GLAND PACKING, E04M-260	Nos	2	2					
4404	T-13/10964A	GASKET PACKING, E04M-261	Nos	2	2					
4405	T-13/10965	CYLINDER PACKING, E04M-262	Nos	2	2					
4406	T-13/10966	ULTRA SONIC LEVEL WATER CONVERTOR, E05M-055	Nos	1	1					
4407	T-13/10966A	FOR LEVEL SWITCH TERMINAL BOX, 100A, E04M-176	Nos	2	2					
4408	T-13/10967	FOR LEVEL SWITCH ELECTRODE ROD E04M-177	Nos	5	5					
4409	T-13/10967A	FOR LEVEL SWITCH TERMINAL BOX, 150A, E04M-178	Nos	3	3					
4410	T-13/10968	FOR LEVEL SWITCH FLOOT, E04M-179	Nos	5	5					
4411	T-13/10968A	FOR LEVEL SWITCH WEIGHT, E04M-180	Nos	4	4					
4412	T-13/10969	FOR LEVEL SWITCH REED TYPE LEVEL, E04M-181	Nos	1	1					
4413	T-13/10970	SERIES II LAMP, E04M-286	Nos	32	32					
4414	T-13/10971	CHANGE OVER SWITCH, E04M-288	Nos	1	1					
4415	T-13/10971A	CHANGE OVER SWITCH, E04M-289	Nos	1	1					
4416	T-13/10972	CHANGE OVER SWITCH, E04M-290	Nos	1	1					
4417	T-13/10973	AUX: RELAY, E05M-044	Nos	4	4					
4418	T-13/10974	LAMP, AP40C, E05M-046	Nos	2	2					
4419	T-13/10974A	SOLENOID VALVE, E04M-263	Nos	5	5					
4420	T-13/10975	AUX: RELAY, E04M-264	Nos	10	10					
4421	T-13/10975A	AUX: RELAY, E04M-265	Nos	1	1					
4422	T-13/10976	AUX: RELAY, E04M-266	Nos	1	1					
4423	T-13/10976A	AUX: RELAY, E04M-267	Nos	1	1					
4424	T-13/10977	AUX: RELAY, E04M-268	Nos	1	1					
4425	T-13/10977A	AUX: RELAY, E04M-269	Nos	1	1					
4426	T-13/10978	FLOAT RELAY, E04M-270	Nos	2	2					
4427	T-13/10979A	KP LAMPS, 166FR,, E05M-047	Nos	20	20					
4428	T-13/10980A	PRESSURE SWITCH, , E05M-049	Nos	1	1					
4429	T-13/10981	CHANGE OVER SWITCH, E05M-051	Nos	1	1					
4430	T-13/10982	CHANGE OVER SWITCH, E05M-053	Nos	1	1					
4431	T-13/10983	FRONT BEARING, E07M-014	Nos	2	2					
4432	T-13/10983A	REAR BEARING, E07M-015	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4433	T-13/10984	FRONT THRUST, E07M-016	Nos	2	2					
4434	T-13/10984A	REAR THRUST, E07M-017	Nos	2	2					
4435	T-13/10985	GASKET, (CASING) E07M-109	Nos	2	2					
4436	T-13/10985A	GASKET, (CASING) E07M-110	Nos	2	2					
4437	T-13/10986	BALL BEARING, E07M-018	Nos	2	2					
4438	T-13/10986A	GLAND PACKING, E07M-114	Nos	4	4					
4439	T-13/10987A	GASKET FOR CONDENSER , E07M-111	Nos	2	2					
4440	T-13/10988	GASKET FOR CONDENSER , E07M-112	Nos	2	2					
4441	T-13/10988A	GASKET FOR STEAM NOZZLE , E07M-113	Nos	4	4					
4442	T-13/10989	O" RING, E07M-103	Nos	2	2					
4443	T-13/10989A	GASKET , E07M-106	Nos	2	2					
4444	T-13/10990	U PACKING E07M-104	Nos	2	2					
4445	T-13/10990A	BALL BEARING, E07M-012	Nos	2	2					
4446	T-13/10991	BALL BEARING, E07M-013	Nos	2	2					
4447	T-13/10991A	BALL BEARING, E07M-011	Nos	4	4					
4448	T-13/10992	GASKET ASBOSTOS, E07M-098	Nos	2	2					
4449	T-13/10992A	GASKET OIL SHEET, E07M-099	Nos	4	4					
4450	T-13/10993	GASKET ASBOSTOS, E07M-100	Nos	2	2					
4451	T-13/10993A	GASKET ASBOSTOS, E07M-101	Nos	2	2					
4452	T-13/10994	O" RING, E07M-102	Nos	2	2					
4453	T-13/10994A	O" RING, E07M-108	Nos	2	2					
4454	T-13/10995	OIL SEAL E07M-105	Nos	2	2					
4455	T-13/10995A	DIAPHRAGM, E07M-107	Nos	2	2					
4456	T-13/10996	CASING GASKET, E07M-131	Nos	1	1					
4457	T-13/10996A	SLEEVE GASKET, E07M-132	Nos	1	1					
4458	T-13/10997	GASKET, E07M-133	Nos	2	2					
4459	T-13/10998	GLAND PACKING, E07M-134	Nos	5	5					
4460	T-13/10998A	CASING GASKET, E07M-135	Nos	1	1					
4461	T-13/10999	SLEEVE GASKET, E07M-136	Nos	1	1					
4462	T-13/10999A	GASKET, E07M-137	Nos	2	2					
4463	T-13/11000A	GLAND PACKING, E07M-138	Nos	5	5					
4464	T-14/12501	CASING GASKET, E07M-124	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4465	T-14/12501A	SLEEVE GASKET, E07M-125	Nos	2	2					
4466	T-14/12502	GASKET FOR B.COV: E07M-126	Nos	4	4					
4467	T-14/12502A	O" RING G55, E07M-123	Nos	2	2					
4468	T-14/12503A	MECHANICAL SEAL, E07M-122	Nos	2	2					
4469	T-14/12505	GASKET FOR B.COV: E07M-129	Nos	4	4					
4470	T-14/12506	GLAND PACKING, E07M-130	Nos	10	10					
4471	T-14/12506A	CASING GASKET, E07M-118	Nos	2	2					
4472	T-14/12507	SLEEVE GASKET, E07M-119	Nos	2	2					
4473	T-14/12507A	GASKET FOR B.COV: E07M-121	Nos	2	2					
4474	T-14/12508	O" RING G55, E07M-117	Nos	2	2					
4475	T-14/12509	BALL BEARING, E07M-019	Nos	1	1					
4476	T-14/12512A	PACKING, E07M-096	Nos	2	2					
4477	T-14/12514	PACKING, E07M-097	Nos	2	2					
4478	T-14/12514A	GAUGE PIPE, E07M-173	Nos	1	1					
4479	T-14/12517	O" RING , E07M-178	Nos	1	1					
4480	T-14/12518	GLAND PACKING, E07M-180	Nos	1	1					
4481	T-14/12518A	O" RING , E07M-181	Nos	1	1					
4482	T-14/12519	O" RING 40A, E07M-025	Nos	1	1					
4483	T-14/12519A	O" RING 40A, E07M-026	Nos	1	1					
4484	T-14/12520	O" RING 40A, E07M-027	Nos	1	1					
4485	T-14/12520A	O" RING 40A, E07M-028	Nos	1	1					
4486	T-14/12521	O" RING 40A, E07M-029	Nos	1	1					
4487	T-14/12521A	O" RING 40A, E07M-030	Nos	1	1					
4488	T-14/12522	O" RING 25A, E07M-031	Nos	1	1					
4489	T-14/12522A	O" RING 25A, E07M-032	Nos	1	1					
4490	T-14/12523	O" RING 25A, E07M-033	Nos	1	1					
4491	T-14/12523A	O" RING 25A, E07M-034	Nos	1	1					
4492	T-14/12524	O" RING 25A, E07M-035	Nos	1	1					
4493	T-14/12524A	O" RING 25A, E07M-036	Nos	1	1					
4494	T-14/12525	O" RING 40A, E07M-037	Nos	1	1					
4495	T-14/12525A	O" RING 40A, E07M-038	Nos	1	1					
4496	T-14/12526	O" RING 40A, E07M-039	Nos	1	1					

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4497	T-14/12526A	O" RING 15A, E07M-040	Nos	1	1					
4498	T-14/12527	O" RING 15A, E07M-041	Nos	1	1					
4499	T-14/12527A	O" RING 15A, E07M-042	Nos	1	1					
4500	T-14/12528	O" RING 40A, E07M-043	Nos	1	1					
4501	T-14/12528A	O" RING 40A, E07M-044	Nos	1	1					
4502	T-14/12529	O" RING 40A, E07M-045	Nos	1	1					
4503	T-15/11101	O" RING 15A, E07M-046	Nos	1	1					
4504	T-15/11101A	O" RING 40A, E07M-047	Nos	1	1					
4505	T-15/11102	O" RING 65A, E07M-048	Nos	1	1					
4506	T-15/11102A	O" RING 65A, E07M-049	Nos	1	1					
4507	T-15/11103	O" RING 65A, E07M-050	Nos	1	1					
4508	T-15/11103A	O" RING 65A, E07M-051	Nos	1	1					
4509	T-15/11104	O" RING 20A, E07M-052	Nos	1	1					
4510	T-15/11104A	O" RING 20A, E07M-053	Nos	1	1					
4511	T-15/11105	O" RING 20A, E07M-054	Nos	1	1					
4512	T-15/11105A	O" RING 20A, E07M-055	Nos	1	1					
4513	T-15/11106	O" RING 25A, E07M-056	Nos	1	1					
4514	T-15/11106A	O" RING 25A, E07M-057	Nos	1	1					
4515	T-15/11107	O" RING 25A, E07M-058	Nos	1	1					
4516	T-15/11107A	O" RING 25A, E07M-059	Nos	1	1					
4517	T-15/11108	O" RING 20A, E07M-060	Nos	1	1					
4518	T-15/11108A	O" RING 20A, E07M-061	Nos	1	1					
4519	T-15/11109	O" RING 20A, E07M-062	Nos	1	1					
4520	T-15/11109A	O" RING 20A, E07M-063	Nos	1	1					
4521	T-15/11110	O" RING 25A, E07M-064	Nos	1	1					
4522	T-15/11110A	O" RING 25A, E07M-065	Nos	1	1					
4523	T-15/11111	O" RING 25A, E07M-066	Nos	1	1					
4524	T-15/11111A	O" RING 25A, E07M-067	Nos	1	1					
4525	T-15/11112	O" RING 50A, E07M-068	Nos	1	1					
4526	T-15/11112A	O" RING 50A, E07M-069	Nos	1	1					
4527	T-15/11113	O" RING 50A, E07M-070	Nos	1	1					
4528	T-15/11113A	O" RING 50A, E07M-071	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4529	T-15/11114	O" RING 50A, E07M-072	Nos	1	1					
4530	T-15/11114A	O" RING 40A, E07M-074	Nos	1	1					
4531	T-15/11115	O" RING 40A, E07M-075	Nos	1	1					
4532	T-15/11115A	O" RING 40A, E07M-076	Nos	1	1					
4533	T-15/11116	O" RING 40A, E07M-077	Nos	1	1					
4534	T-15/11116A	O" RING 40A, E07M-080	Nos	1	1					
4535	T-15/11117	O" RING 65A, E07M-314	Nos	1	1					
4536	T-15/11117A	O" RING 50A, E07M-081	Nos	1	1					
4537	T-15/11118	O" RING 50A, E07M-082	Nos	1	1					
4538	T-15/11118A	O" RING 50A, E07M-083	Nos	1	1					
4539	T-15/11119	O" RING 50A, E07M-084	Nos	1	1					
4540	T-15/11119A	O" RING 65A, E07M-085	Nos	1	1					
4541	T-15/11120	O" RING 65A, E07M-086	Nos	1	1					
4542	T-15/11120A	O" RING 65A, E07M-087	Nos	1	1					
4543	T-15/11121	O" RING 65A, E07M-088	Nos	1	1					
4544	T-15/11121A	O" RING 40A, E07M-089	Nos	1	1					
4545	T-15/11122	O" RING 40A, E07M-090	Nos	1	1					
4546	T-15/11122A	O" RING 40A, E07M-091	Nos	1	1					
4547	T-15/11123	O" RING 40A, E07M-092	Nos	1	1					
4548	T-15/11123A	O" RING 40A, E07M-093	Nos	1	1					
4549	T-15/11124	O" RING 40A, E07M-094	Nos	1	1					
4550	T-15/11124A	O" RING 40A, E07M-095	Nos	1	1					
4551	T-15/11140	DIAPHRAGM, 50A, E07M-169	Nos	1	1					
4552	T-15/11143A	GAUGE PIPE, E07M-185	Nos	1	1					
4553	T-15/11144	GLAND PACKING, E07M-186	Nos	1	1					
4554	T-15/11144A	O" RING E07M-187	Nos	1	1					
4555	T-15/11146	O" RING E07M-190	Nos	1	1					
4556	T-15/11148	PACKING, E07M-195	Nos	1	1					
4557	T-15/11149A	PACKING, E07M-197	Nos	1	1					
4558	T-15/11150	GASKET, E07M-219	Nos	1	1					
4559	T-15/11150A	GLAND PACKING, E07M-220	Nos	1	1					
4560	T-15/11151	GLAND PACKING, E07M-221	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4561	T-15/11151A	GLAND PACKING, E07M-222	Nos	1	1					
4562	T-15/11152	GASKET, E07M-223	Nos	1	1					
4563	T-15/11152A	GLAND PACKING, E07M-224	Nos	1	1					
4564	T-15/11153	GLAND PACKING, E07M-225	Nos	1	1					
4565	T-15/11153A	GLAND PACKING, E07M-226	Nos	1	1					
4566	T-15/11154	GLAND PACKING, E07M-215	Nos	2	2					
4567	T-15/11154A	GASKET, , E07M-216	Nos	2	2					
4568	T-15/11155	GLAND PACKING, E07M-217	Nos	2	2					
4569	T-15/11155A	GASKET, , E07M-218	Nos	2	2					
4570	T-15/11156	GASKET, , E07M-310	Nos	1	1					
4571	T-15/11156A	GASKET, , E07M-311	Nos	1	1					
4572	T-15/11157	PACKING, E07M-312	Nos	1	1					
4573	T-15/11157A	GASKET, , E07M-313	Nos	1	1					
4574	T-15/11158	GASKET, , E07M-119	Nos	1	1					
4575	T-15/11158A	GASKET, , E07M-200	Nos	1	1					
4576	T-15/11159	GLAND PACKING, E07M-201	Nos	1	1					
4577	T-15/11159A	GASKET, , E07M-202	Nos	1	1					
4578	T-15/11160	GASKET, , E07M-203	Nos	1	1					
4579	T-15/11160A	GLAND PACKING, E07M-204	Nos	1	1					
4580	T-15/11161	GASKET, , E07M-205	Nos	1	1					
4581	T-15/11161A	GASKET, , E07M-206	Nos	1	1					
4582	T-15/11162	GLAND PACKING, E07M-207	Nos	1	1					
4583	T-15/11162A	GASKET, , E07M-208	Nos	1	1					
4584	T-15/11163	GASKET, , E07M-209	Nos	1	1					
4585	T-15/11163A	GLAND PACKING, E07M-210	Nos	1	1					
4586	T-15/11164	GASKET, , E07M-211	Nos	1	1					
4587	T-15/11164A	GASKET, , E07M-212	Nos	1	1					
4588	T-15/11165	GLAND PACKING, E07M-213	Nos	1	1					
4589	T-15/11165A	GASKET, , E07M-214	Nos	2	2					
4590	T-15/11166	RASCHING RING, E07M-280	Nos	1200	1200					
4591	T-15/11166A	GASKET, D0114 RB FOR UNE-21(PCS/PACK) B187S-4,4001	Nos	1	1					
4592	T-15/11167	GLAND PACKING FOR CONTROL VALVE,P4513+N025,&40.82	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4593	T-15/11167A	GASKET PACKING, E07M-228	Nos	2	2					
4594	T-15/11168	DIAPHRAGM, E07M-229	Nos	1	1					
4595	T-15/11168A	RECORDER CHART , E07M-243	Nos	2	2					
4596	T-15/11169	CHART , B9565 AW, E07M-244	Nos	4	4					
4597	T-15/11169A	CHART , B956 AAZ, E07M-245	Nos	4	4					
4598	T-15/11170	RED PEN, E07M-241	Nos	3	3					
4599	T-15/11170A	GREEN PEN, E07M-242	Nos	1	1					
4600	T-15/11171	O" RING, E07M-254	Nos	1	1					
4601	T-15/11172A	SCREW 3 PCS/PACK, E07M-257	Nos	1	1					
4602	T-15/11173	RESTRIETOR, E07M-258	Nos	1	1					
4603	T-15/11173A	O" RING, E07M-261	Nos	1	1					
4604	T-15/11174	GASKET, , E07M-259	Nos	1	1					
4605	T-15/11174A	O" RING, E07M-260	Nos	1	1					
4606	T-15/11175	O" RING FOR PNEUMATIC CONTROL 5PCS(MC43) , E07M	Nos	1	1					
4607	T-15/11175A	SCREEN (3PCS/PACK) , E07M-263	Nos	1	1					
4608	T-15/11176	LINKASSY , E07M-264	Nos	1	1					
4609	T-15/11176A	PNEUMATIC AMPLIFIER , E07M-265	Nos	1	1					
4610	T-15/11177	GASKET, , E07M-266	Nos	1	1					
4611	T-15/11177A	GASKET, , E07M-267	Nos	1	1					
4612	T-15/11178	O" RING, E07M-268	Nos	1	1					
4613	T-15/11178A	O" RING, E07M-269	Nos	1	1					
4614	T-15/11179	O" RING, E07M-270	Nos	1	1					
4615	T-15/11179A	O" RING, E07M-271	Nos	1	1					
4616	T-15/11180	TUBE, E07M-272 (2PC/PK)	Nos	1	1					
4617	T-15/11180A	O" RING, E07M-273. (5PC/PK)	Nos	1	1					
4618	T-15/11181	O" RING, E07M-274. (4PC/PK)	Nos	1	1					
4619	T-15/11181A	RETAINING , E07M-275	Nos	1	1					
4620	T-15/11182A	ELECTRODE ROD, E07M-249	Nos	5	5					
4621	T-15/11183	TERMINAL BOX , E07M-250	Nos	2	2					
4622	T-15/11183A	FLOAT , E07M-251	Nos	4	4					
4623	T-15/11184	WEIGHT, E07M-252	Nos	1	1					
4624	T-15/11184A	RED TYPE LEVEL SWITCH, E07M-253	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4625	T-15/11185	SOLENOID VALVE , E07M-230	Nos	5	5					
4626	T-15/11185A	AUX: RELAY , E07M-231	Nos	20	20					
4627	T-15/11186	AUX: RELAY , E07M-232	Nos	1	1					
4628	T-15/11186A	AUX: RELAY , E07M-233	Nos	1	1					
4629	T-15/11187	AUX: RELAY , E07M-234	Nos	1	1					
4630	T-15/11187A	AUX: RELAY , E07M-235	Nos	1	1					
4631	T-15/11188	FLOATEST RELAY , E07M-236	Nos	2	2					
4632	T-15/11188A	LAMP , E07M-337	Nos	50	50					
4633	T-15/11189	LAMP , E07M-338	Nos	5	5					
4634	T-15/11190A	PRESSURE SWITCH , E07M-246	Nos	1	1					
4635	T-15/11191	PRESSURE SWITCH , E07M-247	Nos	1	1					
4636	T-15/11191A	CHANGE OVER SWITCH , E07M-276	Nos	1	1					
4637	T-15/11193	CHANGE OVER SWITCH , E07M-279	Nos	1	1					
4638	T-15/11193A	LAMP , E07M-281	Nos	30	30					
4639	T-15/11194	DIAPHRAGM , E07M-282	Nos	40	40					
4640	T-15/11194A	PUMP DIAPHRAGM, E07M-283	Nos	15	15					
4641	T-15/11195A	O" RING G30 E07M-285	Nos	10	10					
4642	T-15/11196	O" RING P12 E07M-286	Nos	10	10					
4643	T-15/11196A	WINDOW PACKING, E07M-287	Nos	10	10					
4644	T-15/11197	LIGHT SOURCE , E07M-288	Nos	5	5					
4645	T-15/11197A	STEAR ROTOR E07M-289	Nos	5	5					
4646	T-15/11198	BEARING, E07M-290	Nos	15	15					
4647	T-15/11198A	RELAY, E07M-291	Nos	20	20					
4648	T-15/11199	RUBBER BUSH, E07M-292	Nos	4	4					
4649	T-15/11199A	PACKING, E07M-293	Nos	10	10					
4650	T-15/11200	FILTER ELEMENT (250 PCS/SET) E07M-294	Nos	10	10					
4651	T-15/11200A	TEMP: FUSE , E07M-295	Nos	5	5					
4652	T-16/11202	TUBE, 3X1X10M, E07M-296	Nos	2	2					
4653	T-16/11203	FUSE 1A, E07M-302	Nos	5	5					
4654	T-16/11204	FUSE 5A, 'E07M-304	Nos	5	5					
4655	T-16/11204A	PRE AMPLIFIER 'E07M-305	Nos	1	1					
4656	T-16/11205	TEMP: CONTROLLER 'E07M-306	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4657	T-16/11205A	STIRRER MOTOR' E07M-307	Nos	1	1					
4658	T-16/11206	PUMP MOTOR 'E07M-308	Nos	1	1					
4659	T-16/11206A	2-WAY SOLENOID VALVE, E07M-297	Nos	1	1					
4660	T-16/11207	3-WAY SOLENOID VALVE, E07M-298	Nos	1	1					
4661	T-16/11207A	PUMP 'E07M-299	Nos	4	4					
4662	T-16/11208	HEATER, E07M-300	Nos	1	1					
4663	T-16/11208A	PRINTED CIRCUIT BOARD FOR PUMP 'E07M-309	Nos	6	6					
4664	T-16/11209	MAGNAP (M.B.A) D10M-003 (MB-9)	Nos	130	130					
4665	T-16/11209A	MAGNAP (M.B.A) E03M-022 (MB-9)	Nos	1	1					
4666	T-16/11210	MAGNAP (M.B.A) E03M-023(MB-9)	Nos	1	1					
4667	T-16/11215	FILTER ELEMENT 102R71	Nos	2	2					
4668	T-16/11215A	FILTER ELEMENT 102R75	Nos	1	1					
4669	T-16/11216	FUSE, I06M-006	Nos	4	4					
4670	T-16/11216A	LAMP, I06M-007	Nos	2	2					
4671	T-16/11217	LAMP, I06M-005	Nos	3	3					
4672	T-16/11217A	FUSE, I06M-009	Nos	4	4					
4673	T-16/11218	RELAY 'I06M-010	Nos	2	2					
4674	T-16/11218A	LAMP 'I06M-008	Nos	3	3					
4675	T-16/11219	FUSE, I06M-012	Nos	4	4					
4676	T-16/11219A	RELAY 'I06M-013	Nos	2	2					
4677	T-16/11220	LAMP 'I06M-011	Nos	3	3					
4678	T-16/11220A	FUSE, I06M-015	Nos	4	4					
4679	T-16/11221	RELAY I06M-016	Nos	2	2					
4680	T-16/11221A	LAMP, I06M-014	Nos	3	3					
4681	T-16/11222	FUSE, I06M-018	Nos	4	4					
4682	T-16/11222A	RELAY I06M-019	Nos	2	2					
4683	T-16/11223	LAMP, I06M-017	Nos	3	3					
4684	T-16/11223A	FUSE, I06M-021	Nos	4	4					
4685	T-16/11224	RELAY, I06M-022	Nos	2	2					
4686	T-16/11224A	LAMP, I06M-020	Nos	3	3					
4687	T-16/11225	FUSE, I06M-024	Nos	4	4					
4688	T-16/11225A	RELAY, I06M-025	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4689	T-16/11226	LAMP, I06M-023	Nos	3	3					
4690	T-16/11226A	FUSE, I06M-027	Nos	4	4					
4691	T-16/11227	RELAY, I06M-028	Nos	2	2					
4692	T-16/11227A	LAMP, I06M-026	Nos	3	3					
4693	T-16/11228	FUSE, I06M-030	Nos	4	4					
4694	T-16/11228A	RELAY I06M-031	Nos	2	2					
4695	T-16/11229	LAMP I06M-029	Nos	3	3					
4696	T-16/11229A	FUSE, I06M-033	Nos	4	4					
4697	T-16/11230	RELAY, I06M-034	Nos	2	2					
4698	T-16/11231	FUSE, I06M-036	Nos	4	4					
4699	T-16/11231A	RELAY, I06M-037	Nos	2	2					
4700	T-16/11232A	SPARE PARTS OF CHILLER, IOR-032-062,	Nos	1	1					
4701	T-16/11233	SPARE PARTS OF CHILLER, IOR-001-031,	Nos	16	16					
4702	T-16/11234	BEARING FOR FAN, 102R-002	Nos	1	1					
4703	T-16/11234A	V-BELT- 102R 003	Nos	20	20					
4704	T-16/11236	V-BELT- 102R -006	Nos	6	6					
4705	T-16/11237A	V-BELT- 102R -009	Nos	25	25					
4706	T-16/11239	V-BELT- 102R -012	Nos	20	20					
4707	T-16/11239A	BEARING , 102R-013	Nos	1	1					
4708	T-16/11240A	V-BELT- 102R -015	Nos	15	15					
4709	T-16/11241	BEARING , 102R-016	Nos	1	1					
4710	T-16/11243A	V-BELT- 102R -021	Nos	25	25					
4711	T-16/11244	BEARING , 102R-022	Nos	1	1					
4712	T-16/11245	V-BELT- 102R -021	Nos	20	20					
4713	T-16/11246A	V-BELT- 102R -027	Nos	16	16					
4714	T-16/11247	V-BELT- 102R -028	Nos	1	1					
4715	T-16/11248	V-BELT- 102R -030	Nos	3	3					
4716	T-16/1128A	V-BELT- 102R -031	Nos	1	1					
4717	T-16/11249	V-BELT FOR FAN- 102R -032	Nos	1	1					
4718	T-16/11249A	V-BELT- 102R -033	Nos	4	4					
4719	T-16/11250	GREASE, 102R -034	Nos	2	2					
4720	T-16/11250A	V-BELT CT- 105R -004	Nos	15	15					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4721	T-16/11252	BALL TAP, I05R-006	Nos	5	5					
4722	T-16/11253	BEARING, I05R-002	Nos	18	18					
4723	T-16/11253A	BEARING, I05R-002	Nos	20	20					
4724	T-16/11254	BALL TAP, I05R-003	Nos	14	14					
4725	T-16/11254A	GLAND PACKING, I94R-16	Nos	1	1					
4726	T-16/11255	SEAT PACKING, I04R-2-3-7-8-12-13-17-18	Nos	104	104					
4727	T-16/11255A	COUPLING RUBBER, I04R-5-10-15-20	Nos	124	124					
4728	T-16/11256	OIL SEAL, I04R-4-9-14-19	Nos	116	116					
4729	T-16/11256A	V-BELT- I03R-001	Nos	5	5					
4730	T-16/11257	BEARING, I03R-002	Nos	1	1					
4731	T-16/11257A	BEARING, I03R-003	Nos	1	1					
4732	T-16/11258	MOTOR BEARING, I03R-004, 6206	Nos	1	1					
4733	T-16/11258A	V-BELT- I03R-005	Nos	5	5					
4734	T-16/11259	BEARING, I03R-006	Nos	1	1					
4735	T-16/11259A	BEARING, I03R-007	Nos	1	1					
4736	T-16/11260A	V-BELT I03R-009,	Nos	6	6					
4737	T-16/11261	BEARING, I03R-010	Nos	2	2					
4738	T-16/11261A	MOTOR BEARING, I03R-011, 6205	Nos	4	4					
4739	T-16/11262	MOTOR BEARING, I03R-012, 6201	Nos	1	1					
4740	T-16/11263A	MOTOR BEARING, I03R-015, 6308	Nos	18	18					
4741	T-16/11264	MOTOR BEARING, I03R-016, 6306	Nos	23	23					
4742	T-16/11265A	MOTOR BEARING, I03R-019, 6205	Nos	2	2					
4743	T-16/11266A	MOTOR BEARING, I03R-021, 6205ZZ	Nos	12	12					
4744	T-16/11267	MOTOR BEARING, I03R-022, 6206	Nos	3	3					
4745	T-16/11267A	MOTOR BEARING, I03R-023, 6205	Nos	4	4					
4746	T-16/11268	MOTOR BEARING, I03R-024, 6206	Nos	8	8					
4747	T-16/11268A	MOTOR BEARING, I03R-025, 6205	Nos	8	8					
4748	T-16/11269	MOTOR BEARING, I03R-026, 6206	Nos	2	2					
4749	T-16/11269A	MOTOR BEARING, I03R-027, 6205	Nos	2	2					
4750	T-16/11270	MOTOR BEARING, I03R-028, 6206	Nos	4	4					
4751	T-16/11270A	MOTOR BEARING, I03R-029, 6205	Nos	4	4					
4752	T-16/11271A	MOTOR BEARING, I03R-031, 6202	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4753	T-16/11274	MOTOR BEARING, I03R-036, 6306	Nos	1	1					
4754	T-16/11274A	LAMP, (AHX130)B158-1129	Nos	37	37					
4755	T-16/11275	FUSE, (BLA003) B158 1130	Nos	20	20					
4756	T-16/11275A	FUSE, (BLA003) B158 1131	Nos	4	4					
4757	T-16/11276	PACKING V01,221/223 B100DS-1	Nos	1	1					
4758	T-16/11276A	PACKING V01,225/227 B100DS-2	Nos	1	1					
4759	T-16/11277	PACKING V01,229/231 B100DS-3	Nos	10	10					
4760	T-16/11277A	SEAL RING, V2-01/02 B100DS-4	Nos	2	2					
4761	T-16/11278	SEAL RING, V2-03 B100DS-5	Nos	4	4					
4762	T-16/11278A	PACKING, V2-12 B100 DS-6	Nos	2	2					
4763	T-16/11279	SEAL RING, V2-12 B100 DS-7	Nos	1	1					
4764	T-16/11279A	PACKING, V2-14/15 B100 DS-8	Nos	1	1					
4765	T-16/11280	SEAL RING, V2-14/15 B100 DS-9	Nos	1	1					
4766	T-16/11280A	PACKING, V2-28/29 B100 DS-10	Nos	1	1					
4767	T-16/11281	SEAL RING, V2-28/29 B100 DS-11	Nos	1	1					
4768	T-16/11281A	PACKING, V2-30 B100 DS-12	Nos	1	1					
4769	T-16/11282	SEAL RING, V2-30 B100 DS-13	Nos	1	1					
4770	T-16/11282A	PACKING, V2-31 B100 DS-14	Nos	1	1					
4771	T-16/11283	SEAL RING, V2-31 B100 DS-15	Nos	1	1					
4772	T-16/11283A	PACKING, V2-32 B100 DS-16	Nos	1	1					
4773	T-16/11284	SEAL RING, V2-32 B100 DS-17	Nos	1	1					
4774	T-16/11284A	PACKING, V2-33 B100 DS-18	Nos	1	1					
4775	T-16/11285	SEAL RING, V2-33 B100 DS-19	Nos	1	1					
4776	T-16/11285A	PACKING V01-222/224, B100DS 20	Nos	1	1					
4777	T-16/1128686	PACKING V01-226/228, B100DS 21	Nos	20	20					
4778	T-16/11286A	PACKING V01-230/232, B100DS 22	Nos	5	5					
4779	T-16/11287	PACKING V02-04/05, B100DS 23	Nos	5	5					
4780	T-16/11287A	SEAL RING, V2-04/05 B100 DS-24	Nos	1	1					
4781	T-16/11288	PACKING V02-06, B100DS 25	Nos	5	5					
4782	T-16/11288A	SEAL RING, V2-06 B100 DS-26	Nos	1	1					
4783	T-16/11289	PACKING V02-10, B100DS 27	Nos	7	7					
4784	T-16/11289A	SEAL RING, V2-10 B100 DS-28	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4785	T-16/11290	PACKING V02-16, B100DS 29	Nos	7	7					
4786	T-16/11290A	SEAL RING, V2-16 B100 DS-30	Nos	1	1					
4787	T-16/11291	PACKING V02-18, B100DS 31	Nos	1	1					
4788	T-16/11291A	SEAL RING, V2-18 B100 DS-32	Nos	1	1					
4789	T-16/11292	PACKING V02-20, B100DS 33	Nos	1	1					
4790	T-16/11292A	SEAL RING, V2-20 B100 DS-34	Nos	1	1					
4791	T-16/11293	FILTER CARTRIDGE, C01M-900	Nos	20	20					
4792	T-16/11293A	FILTER BAG, C01M-901	Nos	37	37					
4793	T-16/11294	GAUGE GLASS FOR LEVEL GAUGE, C01M-902	Nos	4	4					
4794	T-16/11294A	GAUGE GLASS FOR LEVEL GAUGE, C01M-903	Nos	8	8					
4795	T-16/11295	O" RING FOR GAUGE GLASS , C01M-904	Nos	24	24					
4796	T-16/11295A	O" RING FOR BAG FILTER , C01M-905	Nos	37	37					
4797	T-16/11296	O" RING FOR FILTER , C01M-906	Nos	1	1					
4798	T-16/11296A	PISTON RING, E09M-001	Nos	6	6					
4799	T-16/11297	O" RING, E09M-002	Nos	1	1					
4800	T-16/11297A	FUEL INJECTION VALVE, E09M-003	Nos	2	2					
4801	T-16/11298	INLET VALVE ASSY, E09M-004	Nos	12	12					
4802	T-16/11298A	EXHAUST VALVE, E09M-005	Nos	12	12					
4803	T-16/11299	BEARING, E09M-006	Nos	2	2					
4804	T-16/11299A	GLAND PACKING, E09M-007	Nos	10	10					
4805	T-16/11300	SHAFT SLEEVE, E09M-008	Nos	2	2					
4806	T-16/11300A	GAUGE GLASS, E09M-009	Nos	1	1					
4807	T-17/11301	BEARING, E09M-010	Nos	2	2					
4808	T-17/11301A	GLAND PACKING 'E09M-011	Nos	6	6					
4809	T-17/11302	SHAFT SLEEVE, 'E09M-012	Nos	2	2					
4810	T-17/11302A	BEARING E09M-013	Nos	2	2					
4811	T-17/11303	GLAND PACKING 'E09M-014	Nos	6	6					
4812	T-17/11303A	SHAFT SLEEVE, 'E09M-015	Nos	3	3					
4813	T-17/11304	PISTON RING, 'E09M-016	Nos	6	6					
4814	T-17/11304A	O" RING 'E09M-017	Nos	1	1					
4815	T-17/11305	FUEL INGECTION VALVE, 'E09M-018	Nos	2	2					
4816	T-17/11305A	INLET VALVE ASSY 'E09M-019	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
4817	T-17/11306	EXHAUST VALVE ASSY 'E09M-020	Nos	1	1					
4818	T-17/11306A	BEARING 'E09M-021	Nos	8	8					
4819	T-17/11307	GLAMAL PACKING 'E09M-022	Nos	10	10					
4820	T-17/11307A	GAUGE GLASS 'E09M-023	Nos	1	1					
4821	T-17/11308	GASKET, 'E09M-024	Nos	2	2					
4822	T-17/11308A	SOLENOID VALVE 'E09M-025	Nos	1	1					
4823	T-17/11309	LAMP, 'E09M-026	Nos	54	54					
4824	T-17/11309A	PRESSURE SWITCH, 'E09M-027	Nos	1	1					
4825	T-17/11310	RELAY 'E09M-028	Nos	8	8					
4826	T-17/11310A	CONTROL SWITCH BUTTON, 'E09M-029	Nos	11	11					
4827	T-17/11311	LAMP, D02M-096	Nos	12	12					
4828	T-17/11312	FUSE, 'D02M-098	Nos	4	4					
4829	T-17/11312A	FUSE, 'D02M-099	Nos	2	2					
4830	T-17/11313	CHANGE OVER SWITCH, D02M-0100	Nos	1	1					
4831	T-17/11313A	CHANGE OVER SWITCH, D02M-101	Nos	1	1					
4832	T-17/11314	LAMP, AP 40C B855-2-7	Nos	29	29					
4833	T-17/11315	FUSE, (3A) B855-29	Nos	8	8					
4834	T-17/11315A	FUSE, (3A) B855-2-10	Nos	4	4					
4835	T-17/11316	CHANGE OVER SWITCH, B855-2-11	Nos	1	1					
4836	T-17/11316A	CHANGE OVER SWITCH, B855-2-12	Nos	1	1					
4837	T-17/11317A	LEVEL GAUGE GLASS, D07M-002	Nos	1	1					
4838	T-17/11318	LEVEL GAUGE GLASS GASKET, D07M-003	Nos	6	6					
4839	T-17/11318A	GASKET, D07M-004	Nos	6	6					
4840	T-17/11319	SPRING, D07M-005	Nos	1	1					
4841	T-17/11319A	MAN HOLE GASKET, D07M-006	Nos	1	1					
4842	T-17/11320	LEVEL GAUGE GLASS GASKET, D07M-007	Nos	6	6					
4843	T-17/11320A	LEVEL GAUGE GLASS GASKET, D07M-008	Nos	6	6					
4844	T-17/11321	LEVEL GAUGE GLASS GASKET, D07M-009	Nos	6	6					
4845	T-17/11321A	SPRING, D07M-010	Nos	1	1					
4846	T-17/11322	SPRING, D07M-011	Nos	1	1					
4847	T-17/11322A	MAN HOLE GASKET, D07M-012	Nos	2	2					
4848	T-17/11323	LEVEL GAUGE GLASS GASKET, D07M-013	Nos	6	6					

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1	2	3	4	5	6	7	8	10	11	12
4849	T-17/11323A	LEVEL GAUGE GLASS GASKET, D07M-014	Nos	4	4					
4850	T-17/11324	LEVEL GAUGE GLASS GASKET, D07M-015	Nos	4	4					
4851	T-17/11324A	SPRING, D07M-016	Nos	1	1					
4852	T-17/11325	SPRING, D07M-017	Nos	1	1					
4853	T-17/11325A	MAN HOLE GASKET, D07M-018	Nos	2	2					
4854	T-17/11326	LEVEL GAUGE GLASS GASKET, D07M-019	Nos	1	1					
4855	T-17/11326A	LEVEL GAUGE GLASS GASKET, D07M-020	Nos	1	1					
4856	T-17/11327	LEVEL GAUGE GLASS GASKET, D07M-021	Nos	1	1					
4857	T-17/11327A	SPRING, D07M-022	Nos	1	1					
4858	T-17/11328	SPRING, D07M-023	Nos	1	1					
4859	T-17/11328A	LEVEL GAUGE GLASS GASKET, D07M-025	Nos	8	8					
4860	T-17/11329	LEVEL GAUGE GLASS GASKET, D07M-026	Nos	8	8					
4861	T-17/11329A	LEVEL GAUGE GLASS GASKET, D07M-027	Nos	8	8					
4862	T-17/11330	LEVEL GAUGE GLASS GASKET, D07M-028	Nos	2	2					
4863	T-17/11330A	SPRING, D07M-029	Nos	1	1					
4864	T-17/11331	LEVEL GAUGE GLASS, D07M-031	Nos	2	2					
4865	T-17/11332	LEVEL GAUGE GLASS GASKET, D07M-033	Nos	7	7					
4866	T-17/11333	SPRING, D07M-035	Nos	1	1					
4867	T-17/11334A	MAN HOLE GASKET, D07M-030	Nos	1	1					
4868	T-17/11335	THERMO STATE, JO1M-001	Nos	7	7					
4869	T-17/11335A	OPERATION FUSE, J01M-002	Nos	2	2					
4870	T-17/11336	OPERATION FUSE, J01M-003	Nos	2	2					
4871	T-17/11336A	HEATER, J01M-004	Nos	6	6					
4872	T-17/11337	LAMP(RED) J01M-005	Nos	6	6					
4873	T-17/11337A	LAMP, (WHITE) J01M-006	Nos	2	2					
4874	T-17/11338	THERMO STATE, J02M-001	Nos	2	2					
4875	T-17/11338A	OPERATIONAL FUSE, J02M-002	Nos	2	2					
4876	T-17/11339	FLOOT J02M-003	Nos	1	1					
4877	T-17/11339A	HEATER, J02M-004	Nos	1	1					
4878	T-17/11340	LAMP, J02M-006	Nos	1	1					
4879	T-17/11340A	O" RING, E14M-053	Nos	2	2					
4880	T-17/11341	O" RING, E14M-055	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
4881	T-17/11342	U PACKING, E14M-054	Nos	2	2					
4882	T-17/11342A	BALL BEARING E14M-019	Nos	2	2					
4883	T-17/11343	BALL BEARING E14M-020	Nos	2	2					
4884	T-17/11343A	BALL BEARING E14M-021	Nos	3	3					
4885	T-17/11344	GASKET E14M-058	Nos	2	2					
4886	T-17/11344A	GASKET OIL SHEET E14M-059	Nos	4	4					
4887	T-17/11345	GASKET E14M-060	Nos	2	2					
4888	T-17/11345A	GASKET E14M-061	Nos	2	2					
4889	T-17/11346	O" RING 'E14M-062	Nos	2	2					
4890	T-17/11346A	O" RING 'E14M-063	Nos	2	2					
4891	T-17/11347	OIL SHEET E14M-057	Nos	2	2					
4892	T-17/11347A	DIAPHRAGM, 'E14M-117	Nos	2	2					
4893	T-17/11348	O" RING 'E14M-064	Nos	2	2					
4894	T-17/11348A	O" RING 'E14M-066	Nos	4	4					
4895	T-17/11349	O" RING 'E14M-067	Nos	4	4					
4896	T-17/11349A	U PACKING, 'E14M-065	Nos	2	2					
4897	T-17/11350	BALL BEARING 'E14M-022	Nos	2	2					
4898	T-17/11350A	BALL BEARING 'E14M-023	Nos	2	2					
4899	T-17/11351	BALL BEARING 'E14M-0224	Nos	2	2					
4900	T-17/11351A	GASKET 'E14M-069	Nos	2	2					
4901	T-17/11352	GASKET 'E14M-070	Nos	4	4					
4902	T-17/11352A	GASKET 'E14M-071	Nos	2	2					
4903	T-17/11353	GASKET 'E14M-072	Nos	2	2					
4904	T-17/11353A	O" RING, 'E14M-073	Nos	2	2					
4905	T-17/11354	O" RING, 'E14M-074	Nos	2	2					
4906	T-17/11354A	OIL SEAL 'E14M-068	Nos	2	2					
4907	T-17/11355	DIAPHRAGM, E14M-118	Nos	2	2					
4908	T-17/11355A	O" RING, 'E14M-075	Nos	2	2					
4909	T-17/11356	GASKET 'E14M-078	Nos	4	4					
4910	T-17/11356A	U PACKING, 'E14M-076	Nos	2	2					
4911	T-17/11357	BALL BEARING 'E14M-025	Nos	2	2					
4912	T-17/11357A	BALL BEARING 'E14M-026	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4913	T-17/11358	BALL BEARING 'E14M-027	Nos	4	4					
4914	T-17/11358A	GASKET 'E14M-080	Nos	2	2					
4915	T-17/11359	GASKET 'E14M-081	Nos	4	4					
4916	T-17/11359A	GASKET 'E14M-082	Nos	2	2					
4917	T-17/11360	DIAPHRAGM 'E14M-079	Nos	2	2					
4918	T-17/11360A	OIL SEAL 'E14M-077	Nos	2	2					
4919	T-17/11361	GASKET 'E14M-083	Nos	2	2					
4920	T-17/11361A	O" RING 'E14M-084	Nos	2	2					
4921	T-17/11362	O" RING 'E14M-085	Nos	2	2					
4922	T-17/11362A	O" RING 'E14M-086	Nos	4	4					
4923	T-17/11363	GASKET , 'E14M-089	Nos	2	2					
4924	T-17/11363A	U PACKING, 'E14M-087	Nos	2	2					
4925	T-17/11364	BALL BEARING 'E14M-029	Nos	2	2					
4926	T-17/11364A	BALL BEARING 'E14M-030	Nos	2	2					
4927	T-17/11365	BALL BEARING 'E14M-028	Nos	4	4					
4928	T-17/11365A	GASKET 'E14M-090	Nos	2	2					
4929	T-17/11366	GASKET 'E14M-091	Nos	4	4					
4930	T-17/11366A	GASKET 'E14M-092	Nos	2	2					
4931	T-17/11367	GASKET 'E14M-093	Nos	2	2					
4932	T-17/11367A	O" RING 'E14M-094	Nos	2	2					
4933	T-17/11368	O" RING 'E14M-095	Nos	2	2					
4934	T-17/11368A	OIL SEAL 'E14M-088	Nos	2	2					
4935	T-17/11369	DIAPHRAGM 'E14M-119	Nos	2	2					
4936	T-17/11369A	BEARING 'E14M-031	Nos	2	2					
4937	T-17/11370	O" RING 'E14M-096	Nos	2	2					
4938	T-17/11370A	O" RING 'E14M-097	Nos	2	2					
4939	T-17/11371	O" RING 'E14M-098	Nos	2	2					
4940	T-17/11371A	O" RING 'E14M-099	Nos	2	2					
4941	T-17/11372	O" RING 'E14M-100	Nos	4	4					
4942	T-17/11372A	OIL SEAL 'E14M-101	Nos	2	2					
4943	T-17/11373	OIL SEAL 'E14M-102	Nos	2	2					
4944	T-17/11373A	GAS SEAL 'E14M-103	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
4945	T-17/11374	GAS SEAL PLATE 'E14M-104	Nos	2	2					
4946	T-17/11374A	BOLT & RUBBER 'E14M-105	Nos	4	4					
4947	T-17/11375A	SLEEVE BEARING 'E14M-005	Nos	5	5					
4948	T-17/11376	GLAND PACKING 'E14M-006	Nos	16	16					
4949	T-17/11376A	GASKET 'E14M-007	Nos	1	1					
4950	T-17/11377	GASKET 'E14M-008	Nos	1	1					
4951	T-17/11377A	CASING GASKET 'E14M-106	Nos	2	2					
4952	T-17/11378	SLEEVE GASKET 'E14M-107	Nos	2	2					
4953	T-17/11378A	GASKET 'E14M-108	Nos	2	2					
4954	T-17/11379	O" RING 'E14M-110	Nos	2	2					
4955	T-17/11381	MECHANICAL SEAL 'E14M-42	Nos	1	1					
4956	T-17/11381A	BALL BEARING 'E14M-010	Nos	1	1					
4957	T-17/11382	O" RING 'E14M-43	Nos	1	1					
4958	T-17/11382A	BALL BEARING, 'E14M-011	Nos	1	1					
4959	T-17/11383	GLAND PACKING 'E14M-050	Nos	4	4					
4960	T-17/11383A	BALL BEARING 'E14M-014	Nos	2	2					
4961	T-17/11384	O" RING 'E14M-047	Nos	1	1					
4962	T-17/11384A	O" RING 'E14M-048	Nos	1	1					
4963	T-17/11385	O" RING 'E14M-049	Nos	1	1					
4964	T-17/11385A	BALL BEARING, 'E14M-002	Nos	2	2					
4965	T-17/11386	SLEEVE BEARING 'E14M-003	Nos	4	4					
4966	T-17/11386A	GLAND PACKING 'E14M-199	Nos	8	8					
4967	T-17/11387	OIL SEAL 'E14M-198	Nos	2	2					
4968	T-17/11387A	V RING, 'E14M-200	Nos	2	2					
4969	T-17/11388	MECHANICAL SEAL 'E14M-201	Nos	2	2					
4970	T-17/11388A	GASKET 'E14M-203	Nos	6	6					
4971	T-17/11389	O" RING 'E14M-202	Nos	4	4					
4972	T-17/11389A	OIL SEAL 'E14M-034	Nos	2	2					
4973	T-17/11390	SLEEVE BEARING, 'E14M035	Nos	4	4					
4974	T-17/11390A	V RING 'E14M-036	Nos	2	2					
4975	T-17/11391	GLAND PACKING 'E14M-044	Nos	4	4					
4976	T-17/11391A	SLEEVE BEARING, 'E14M013	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4977	T-17/11392	GASKET 'E14M-045	Nos	1	1					
4978	T-17/11392A	SLEEVE BEARING, 'E14M013	Nos	1	1					
4979	T-17/11393	GASKET 'E14M-045	Nos	1	1					
4980	T-17/11393A	GASKET 'E14M-046	Nos	1	1					
4981	T-17/11395	PACKING 'E14M-051	Nos	1	1					
4982	T-17/11395A	BEARING 'E14M-017	Nos	2	2					
4983	T-17/11396	BEARING 'E14M-018	Nos	2	2					
4984	T-17/11396A	PACKING, 'E14M-052	Nos	2	2					
4985	T-17/11397	DIAPHRAGM 'E14M-111	Nos	1	1					
4986	T-17/11398A	DIAPHRAGM 'E14M-114	Nos	1	1					
4987	T-17/11399A	DIAPHRAGM 'E14M-116	Nos	1	1					
4988	T-17/11400	O" RING 'E14M-120	Nos	1	1					
4989	T-17/11400A	O" RING 'E14M-121	Nos	1	1					
4990	T-18/11401	O" RING 'E14M-122	Nos	1	1					
4991	T-18/11401A	O" RING 'E14M-123	Nos	1	1					
4992	T-18/11402	O" RING 'E14M-124	Nos	1	1					
4993	T-18/11402A	O" RING 'E14M-125	Nos	1	1					
4994	T-18/11403	O" RING 'E14M-126	Nos	1	1					
4995	T-18/11403A	O" RING 'E14M-127	Nos	1	1					
4996	T-18/11404	O" RING 'E14M-128	Nos	1	1					
4997	T-18/11404A	O" RING 'E14M-129	Nos	1	1					
4998	T-18/11405	O" RING 'E14M-130	Nos	1	1					
4999	T-18/11405A	O" RING 'E14M-131	Nos	1	1					
5000	T-18/11406	O" RING 'E14M-132	Nos	1	1					
5001	T-18/11406A	O" RING 'E14M-133	Nos	1	1					
5002	T-18/11407	O" RING 'E14M-134	Nos	1	1					
5003	T-18/11407A	O" RING 'E14M-135	Nos	1	1					
5004	T-18/11408	O" RING 'E14M-136	Nos	1	1					
5005	T-18/11408A	O" RING 'E14M-137	Nos	1	1					
5006	T-18/11409	O" RING 'E14M-138	Nos	1	1					
5007	T-18/11409A	O" RING 'E14M-139	Nos	1	1					
5008	T-18/11410	GASKET 'E14M-140	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
5009	T-18/11410A	GASKET 'E14M-141	Nos	1	1					
5010	T-18/11411	SEAT RING 'E14M-142	Nos	1	1					
5011	T-18/11411A	GLAND PACKING 'E14M-143	Nos	1	1					
5012	T-18/11412	GASKET 'E14M-144	Nos	1	1					
5013	T-18/11412A	SEAT RING 'E14M-145	Nos	1	1					
5014	T-18/11413	GLAND PACKING, 'E14M-146	Nos	1	1					
5015	T-18/11413A	GASKET 'E14M-147	Nos	1	1					
5016	T-18/11414	SEAT RING 'E14M-148	Nos	1	1					
5017	T-18/11414A	O" RING 'E14M-149	Nos	1	1					
5018	T-18/11415	SEAT RING 'E14M-150	Nos	1	1					
5019	T-18/11415A	O" RING 'E14M-151	Nos	1	1					
5020	T-18/11416	SEAT RING 'E14M-152	Nos	1	1					
5021	T-18/11416A	O" RING 'E14M-153	Nos	1	1					
5022	T-18/11417	GASKET 'E14M-154	Nos	1	1					
5023	T-18/11417A	GASKET 'E14M-155	Nos	1	1					
5024	T-18/11418	GASKET 'E14M-158	Nos	1	1					
5025	T-18/11418A	GASKET 'E14M-161	Nos	1	1					
5026	T-18/11419	GASKET 'E14M-156	Nos	1	1					
5027	T-18/11419A	PACKING E14M-157	Nos	1	1					
5028	T-18/11420	GASKET 'E14M-159	Nos	1	1					
5029	T-18/11420A	PACKING E14M-160	Nos	1	1					
5030	T-18/11421	GASKET 'E14M-162	Nos	1	1					
5031	T-18/11421A	GAUGE PIPE 'E14M-163	Nos	1	1					
5032	T-18/11422	GRAND PACKING 'E14M-164	Nos	1	1					
5033	T-18/11422A	O". RING 'E14M-165	Nos	1	1					
5034	T-18/11423	GAUGE PIPE 'E14M-166	Nos	1	1					
5035	T-18/11423A	GRAND PACKING 'E14M-167	Nos	1	1					
5036	T-18/11424	O". RING 'E14M-168	Nos	1	1					
5037	T-18/11424A	GAUGE PIPE 'E14M-169	Nos	1	1					
5038	T-18/11425	O". RING 'E14M-171	Nos	1	1					
5039	T-18/11425A	GLAND PACKING 'E14M-170	Nos	1	1					
5040	T-18/11426	O". RING 'E14M-174	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
5041	T-18/11426A	GAUGE PIPE 'E14M-172	Nos	1	1					
5042	T-18/11427	GLAND PACKING 'E14M-173	Nos	1	1					
5043	T-18/11427A	RED PEN 'E14M-189	Nos	1	1					
5044	T-18/11428	CHART 'E14M-190	Nos	2	2					
5045	T-18/11428A	KCL CARTRIDGE 'E14M-191	Nos	10	10					
5046	T-18/11429	POWDERED 'E14M-192	Nos	10	10					
5047	T-18/11429A	POWDERED 'E14M-193	Nos	10	10					
5048	T-18/11430	COMBINATION ELECTRODE, 'E14M-196	Nos	5	5					
5049	T-18/11430A	COMBINATION ELECTRODE, 'E14M-197	Nos	5	5					
5050	T-18/11431	LAMP (18V) 'E14M-175	Nos	5	5					
5051	T-18/11432A	LAMP (28V) 'E14M-178	Nos	10	10					
5052	T-18/11433	AUX: RELAY 'E14M-179	Nos	5	5					
5053	T-18/11433A	AUX: RELAY 'E14M-180	Nos	1	1					
5054	T-18/11434	AUX: RELAY 'E14M-181	Nos	1	1					
5055	T-18/11434A	AUX: RELAY 'E14M-182	Nos	1	1					
5056	T-18/11435	AUX: RELAY 'E14M-183	Nos	1	1					
5057	T-18/11435A	AUX: RELAY 'E14M-184	Nos	1	1					
5058	T-18/11436	ELECTRODE RELAY 'E14M-185	Nos	1	1					
5059	T-18/11436A	CHANGE OVER SWITCH 'E14M-186	Nos	1	1					
5060	T-18/11437	CHANGE OVER SWITCH 'E14M-187	Nos	1	1					
5061	T-18/11437A	SOLENOID VALVE 'E14M-184	Nos	1	1					
5062	T-18/11438	FUSE, (3A) 'E14M-194	Nos	5	5					
5063	T-18/11439	TAPPER ROLLER BEARING 'E15M-003	Nos	2	2					
5064	T-18/11439A	BALL BEARING, 'E15M-004	Nos	4	4					
5065	T-18/11440	BALL BEARING, 'E15M-005	Nos	4	4					
5066	T-18/11440A	O" RING 'E15M-006	Nos	2	2					
5067	T-18/11441	O" RING 'E15M-007	Nos	4	4					
5068	T-18/11441A	O" RING 'E15M-008	Nos	2	2					
5069	T-18/11442	O" RING 'E15M-009	Nos	4	4					
5070	T-18/11442A	O" RING 'E15M-010	Nos	4	4					
5071	T-18/11443	TAPPER ROLLER BEARING 'E15M-011	Nos	2	2					
5072	T-18/11443A	BALL BEARING 'E15M-012	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
5073	T-18/11444	BALL BEARING 'E15M-013	Nos	4	4					
5074	T-18/11445	GLAND PACKING, 'E15M-015	Nos	1	1					
5075	T-18/11445A	GASKET 'E15M-016	Nos	1	1					
5076	T-18/11446	GASKET 'E15M-017	Nos	1	1					
5077	T-18/11446A	GASKET 'E15M-018	Nos	1	1					
5078	T-18/11447	GASKET 'E15M-019	Nos	1	1					
5079	T-18/11447A	GASKET 'E15M-020	Nos	1	1					
5080	T-18/11448	GASKET 'E15M-021	Nos	2	2					
5081	T-18/11448A	GASKET 'E15M-022	Nos	1	1					
5082	T-18/11449	BONNET GASKET 'E15M-023	Nos	1	1					
5083	T-18/11449A	GLAND PACKING 'E15M-024	Nos	1	1					
5084	T-18/11450	BONNET GASKET 'E15M-025	Nos	1	1					
5085	T-18/11450A	GLAND PACKING 'E15M-026	Nos	1	1					
5086	T-18/11451	BONNET GASKET 'E15M-027	Nos	1	1					
5087	T-18/11451A	GLAND PACKING 'E15M-028	Nos	1	1					
5088	T-18/11452	O" RING 'E15M-029	Nos	2	2					
5089	T-18/11452A	O" RING 'E15M-030	Nos	2	2					
5090	T-18/11453	O" RING 'E15M-031	Nos	1	1					
5091	T-18/11453A	CUSHION 'E15M-032	Nos	2	2					
5092	T-18/11454	O" RING 'E15M-033	Nos	2	2					
5093	T-18/11454A	O" RING 'E15M-034	Nos	2	2					
5094	T-18/11455	O" RING 'E15M-035	Nos	1	1					
5095	T-18/11455A	CUSHION 'E15M-036	Nos	2	2					
5096	T-18/11456	O" RING 'E15M-037	Nos	2	2					
5097	T-18/11456A	O" RING 'E15M-038	Nos	2	2					
5098	T-18/11457	O" RING 'E15M-039	Nos	1	1					
5099	T-18/11457A	O" RING 'E15M-040	Nos	2	2					
5100	T-18/11458	O" RING 'E15M-041	Nos	2	2					
5101	T-18/11458A	O" RING 'E15M-042	Nos	2	2					
5102	T-18/11459	O" RING 'E15M-043	Nos	1	1					
5103	T-18/11459A	CUSHION 'E15M-044	Nos	2	2					
5104	T-18/11460	O" RING 'E15M-045	Nos	2	2					

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1	2	3	4	5	6	7	8	10	11	12
5105	T-18/11460A	O" RING 'E15M-046	Nos	2	2					
5106	T-18/11461	O" RING 'E15M-047	Nos	1	1					
5107	T-18/11461A	SHEET GASKET, 'E15M-049	Nos	1	1					
5108	T-18/11462	SHEET GASKET, 'E15M-050	Nos	1	1					
5109	T-18/11462A	SHEET GASKET, 'E15M-051	Nos	1	1					
5110	T-18/11463	SHEET GASKET, 'E15M-052	Nos	1	1					
5111	T-18/11463A	SHEET GASKET, 'E15M-053	Nos	1	1					
5112	T-18/11464	SHEET GASKET, 'E15M-054	Nos	1	1					
5113	T-18/11464A	SHEET GASKET, 'E15M-055	Nos	1	1					
5114	T-18/11465	O" RING, 'E15M-056	Nos	1	1					
5115	T-18/11465A	SCREEN PE STRAINER, 'E15M-057	Nos	1	1					
5116	T-18/11466	GASKET CR STRAINER 'E15M-058	Nos	1	1					
5117	T-18/11466A	HIGH SPEED FUSE 'E15M-059	Nos	3	3					
5118	T-18/11467	FUSE 'E15M-060	Nos	6	6					
5119	T-18/11467A	FUSE 'E15M-061	Nos	8	8					
5120	T-18/11468	FUSE 'E15M-062	Nos	8	8					
5121	T-18/11468A	FUSE 'E15M-063	Nos	3	3					
5122	T-18/11469A	LAMP ELEMENT 'E15M-065	Nos	32	32					
5123	T-18/11471	FLOSWICH 'E15M-068	Nos	1	1					
5124	T-18/11471A	ANNUNCIATOR RELAY 'E15M-069	Nos	1	1					
5125	T-18/11472	AUX: RELAY 'E15M-070	Nos	1	1					
5126	T-18/11473	ELECTRODE TITANUM 'E15M-072	Nos	1	1					
5127	T-18/11473A	ELECTRODE 1000mm 'E15M-073	Nos	1	1					
5128	T-18/11474	RECTIFIER ELEMENT 'E15M-074	Nos	1	1					
5129	T-18/11474A	SOLENOID VALVE 'E15M-075	Nos	2	2					
5130	T-18/11475	SOLENOID VALVE 'E15M-076	Nos	3	3					
5131	T-18/11475A	CUSHION, PE 'E15M-048	Nos	2	2					
5132	T-18/11476	O" RING 'E15M-001	Nos	4	4					
5133	T-18/11476A	O" RING 'E15M-002	Nos	4	4					
5134	T-18/11477	DOOR SHOE, B198-292	Nos	8	8					
5135	T-18/11477A	DOOR HANGER 'B198-293	Nos	4	4					
5136	T-18/11478	MICRO SWITCH 'B198-294	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
5137	T-18/11478A	DOOR SAFTY SHOE, 'B198-295	Nos	1	1					
5138	T-18/11479	DOOR LOCK SWITCH 'B198-296	Nos	1	1					
5139	T-18/11479A	CUSHION RUBBER 'B198-297	Nos	1	1					
5140	T-18/11480	CUSHION RUBBER 'B198-298	Nos	1	1					
5141	T-18/11480A	ROLLER 'B198-299	Nos	1	1					
5142	T-18/11481	DOOR SAFTY SHOE, 'B198-300	Nos	1	1					
5143	T-18/11481A	GUIDE ROLLER, 'B198-301	Nos	6	6					
5144	T-18/11482	DOOR SWITCH, 'B198-302	Nos	6	6					
5145	T-18/11482A	DOOR SWITCH, 'B198-303	Nos	1	1					
5146	T-18/11483	MICRO SWITCH, 'B198-304	Nos	1	1					
5147	T-18/11483A	FLOURESCENT LAMP 'B198-305	Nos	8	8					
5148	T-18/11484	GLOW STARTER 'B198-306	Nos	8	8					
5149	T-18/11484A	LAMP, 'B198-307	Nos	4	4					
5150	T-18/11485	TRANPARENT COVER 'B198-308	Nos	2	2					
5151	T-18/11485A	CARBON BRUSH 'B198-309	Nos	2	2					
5152	T-18/11486	CONCENTRATOR 'B198-310	Nos	2	2					
5153	T-18/11486A	RESISTOR, 'B198-311	Nos	1	1					
5154	T-18/11487	FOUR LAYER SWITCH 'B198-312	Nos	1	1					
5155	T-18/11487A	RELAY 'B198-313	Nos	1	1					
5156	T-18/11488	CARBON 'B198-314	Nos	8	8					
5157	T-18/11488A	FINGER 'B198-315	Nos	8	8					
5158	T-18/11489	RELAY MS 'B198-316	Nos	1	1					
5159	T-18/11489A	RELAY MS 'B198-317	Nos	2	2					
5160	T-18/11490	RELAY GS 'B198-318	Nos	1	1					
5161	T-18/11490A	RELAY TS 'B198-319	Nos	1	1					
5162	T-18/11491	TIMER TX 'B198-320	Nos	1	1					
5163	T-18/11491A	SILICON RECTIFIER 'B198-321	Nos	4	4					
5164	T-18/11492	DIODE 'B198-322	Nos	10	10					
5165	T-18/11492A	R.M POSITECTOR 'B198-323	Nos	1	1					
5166	T-18/11493	WIRE BLUE 'B198-324	Nos	1	1					
5167	T-18/11493A	FINGER 'B198-325	Nos	4	4					
5168	T-18/11494	COIL, 'B198-326	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
5169	T-18/11494A	CARBON 'B198-327	Nos	4	4					
5170	T-18/11495	FINGER 'B198-328	Nos	4	4					
5171	T-18/11495A	FUSE (10A) 'B198-329	Nos	40	40					
5172	T-18/11496	IE, TIMER B198-330	Nos	1	1					
5173	T-18/11496A	SILICON RECTIFIER 'B198-331	Nos	1	1					
5174	T-18/11497	CVV CABLE 0.9 A2C, 'B198-332	Nos	2	2					
5175	T-18/11497A	LAMP, 'B198-333	Nos	20	20					
5176	T-18/11498	BM. SWITCH 'B198-334	Nos	1	1					
5177	T-18/11498A	BUTTON ASSY 'B198-335	Nos	1	1					
5178	T-18/11499	S.B SWITCH, 'B198-336	Nos	1	1					
5179	T-18/11499A	BUTTON ASSY 'B198-337	Nos	1	1					
5180	T-18/11500	BRAK LINING 'B198-338	Nos	2	2					
5181	T-18/11500A	RUBBER SHEET 'B198-339	Nos	2	2					
5182	T-19/11501	OIL SEAL 'B-198-340	Nos	1	1					
5183	T-19/11501A	CATCH WEIGHT 'B-198-341	Nos	1	1					
5184	T-19/11502	CATCH SHOE, 'B-198-342	Nos	1	1					
5185	T-19/11503	UPPER BEARING, E03M-004	Nos	1	1					
5186	T-19/11507A	LINER RING, E03M-017	Nos	1	1					
5187	T-19/11508	CATHODIC PROTECTION, E03M-021	Nos	9	9					
5188	T-19/11509A	LOWER BEARING, E03M-003	Nos	1	1					
5189	T-19/11510	UPPER SHAFT SLEEVE, E03M-007	Nos	2	2					
5190	T-19/11511	LOWER SHAFT SLEEVE, E03M-009	Nos	2	2					
5191	T-19/11511A	GLAND PACKING SLEEVE E03M-013	Nos	1	1					
5192	T-19/11512A	LINER RING E03M-016	Nos	3	3					
5193	T-19/11513	LINER RING E03M-017	Nos	2	2					
5194	T-19/11513A	CATHODIC PROTECTION PLATE, E03M-020	Nos	12	12					
5195	T-19/11514	SPARE COOLING TUBE, DO1M-002	Nos	19	19					
5196	T-19/11514A	SPARE TUBE, D10M-001	Nos	237	237					
5197	T-19/11515	SPARE VALVE, 1500LB-D17M-025	Nos	1	1					
5198	T-19/115A	SPARE VALVE, 2500LB, 40A D17M-019	Nos	1	1					
5199	T-19/11516	SPARE VALVE, 800LB,50A D17M-002	Nos	1	1					
5200	T-19/11516A	SPARE VALVE, 600LB-50A D17M-011	Nos	1	1					

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5201	T-19/11517	SPARE VALVE, D17M-023	Nos	1	1					
5202	T-19/11517A	SPARE VALVE, 600LB-32A D17M-005	Nos	1	1					
5203	T-19/11518	SPARE VALVE, 600LB-50A D17M-014	Nos	1	1					
5204	T-19/11518A	SPARE VALVE, 600LB-40A D17M-016	Nos	1	1					
5205	T-19/11519	SPARE VALVE, 600LB-50A D17M-013	Nos	1	1					
5206	T-19/11519A	SPARE VALVE, 40A D17M-006	Nos	1	1					
5207	T-19/11520	SPARE VALVE, 40A D17M-022	Nos	1	1					
5208	T-19/11520A	S. VALVE, 2500LB, 25A D17M-018	Nos	1	1					
5209	T-19/11522	S. VALVE, 600LB, 25A D17M-021	Nos	2	2					
5210	T-19/11523A	S. VALVE, 600LB, 8A D17M-008	Nos	2	2					
5211	T-19/11524	S. VALVE, 800LB, 20A D17M-001	Nos	2	2					
5212	T-19/11524A	S. VALVE, 800LB, 20A D17M-020	Nos	2	2					
5213	T-19/11525A	S. VALVE, 1500LB, 25A D17M-015	Nos	2	2					
5214	T-19/11527A	S. VALVE, 600LB, 200A D17M-027	Nos	1	1					
5215	T-19/11528	S. VALVE, 600LB, 200A D17M-034	Nos	1	1					
5216	T-19/11528A	S. VALVE, 600LB, 150A D17M-026	Nos	1	1					
5217	T-19/11529	S. VALVE, 600LB, 100A D17M-032	Nos	1	1					
5218	T-19/11529A	S. VALVE, 600LB, 80A D17M-031	Nos	1	1					
5219	T-19/11530	SLAVE CLOCK, G18M-002	Nos	1	1					
5220	T-19/11530A	SLAVE CLOCK, G18M-001	Nos	4	4					
5221	T-19/11531	MECHANICAL SEAL, J03M-004	Nos	4	4					
5222	T-19/11532A	GASKET PACKING, J05M-010	Nos	4	4					
5223	T-19/11533	GASKET PACKING, J05M-011	Nos	4	4					
5224	T-19/11533A	O" RING, J05M-012	Nos	4	4					
5225	T-19/11534	MECHANICAL SEAL, J03M-001	Nos	12	12					
5226	T-19/11535A	GASKET PACKING, J05M-007	Nos	12	12					
5227	T-19/11536	GASKET PACKING, J05M-008	Nos	12	12					
5228	T-19/11536A	GASKET PACKING, NO. 117-4	Nos	12	12					
5229	T-19/11537	O" RING, J05M-009, NO.115	Nos	12	12					
5230	T-19/11537A	PACKING, J04M-001	Nos	2	2					
5231	T-19/11538	BLADE, G21M-001	Nos	3	3					
5232	T-19/11538A	INSULATOR, G21M-003	Nos	6	6					

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1	2	3	4	5	6	7	8	10	11	12
5233	T-19/11539	INSULATOR, G21M-003	Nos	6	6					
5234	T-19/11539A	FIXED CONTACT, E1-36	Nos	48	48					
5235	T-19/11540	MOVING CONTACT, E-I-37	Nos	3	3					
5236	T-19/11540A	FIXED CONTACT, E-I-38	Nos	12	12					
5237	T-19/11541	MAGNATIC CONTACT, E-I-39	Nos	4	4					
5238	T-19/11541A	GASKET, D03M-001	Nos	2	2					
5239	T-19/11542	GASKET, D03M-002	Nos	2	2					
5240	T-19/11542A	GASKET, D03M-002	Nos	5	5					
5241	T-19/11543	GASKET, D03M-003	Nos	1	1					
5242	T-19/11543A	PRIMARY NOZZEL, D03M-004	Nos	1	1					
5243	T-19/11544	SECONDRY NOZZEL, D03M-005	Nos	1	1					
5244	T-19/11544A	STARING AIR EJECTOR NOZZLE, D03M-006	Nos	1	1					
5245	T-19/11545	GASKET, B10S-R-001	Nos	4	4					
5246	T-19/11545A	GASKET, B10S-R-002	Nos	2	2					
5247	T-19/11546	GASKET, B10S-R-003	Nos	2	2					
5248	T-19/11546A	COOLING TUBE, D01M-001	Nos	400	400					
5249	T-19/11547	COOLING TUBE, D01M-001	Nos	400	400					
5250	T-19/11547A	PACKING, C01M-800	Nos	4	4					
5251	T-19/11548	PACKING, C01M-801	Nos	4	4					
5252	T-19/11548A	GASKET, C01M-802	Nos	4	4					
5253	T-19/11549	SPIRAL GASKET C01M-803	Nos	4	4					
5254	T-19/11549A	GASKET, C01M-804	Nos	4	4					
5255	T-19/11550	GASKET, C01M-805	Nos	4	4					
5256	T-19/11550A	PACKING, C01M-806	Nos	4	4					
5257	T-19/11551	PACKING, C01M-807	Nos	4	4					
5258	T-19/11551A	GASKET, C01M-808	Nos	4	4					
5259	T-19/11552	GASKET, C01M-809	Nos	4	4					
5260	T-19/11552A	DIAPHRAGM, D14M-900	Nos	2	2					
5261	T-19/11553	PACKING, D14M-901	Nos	10	10					
5262	T-19/11553A	SPIRAL GASKET 'D14M-902	Nos	2	2					
5263	T-19/11554	GASKET 'D14M-903	Nos	2	2					
5264	T-19/11554A	GASKET 'D14M-904	Nos	2	2					

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5265	T-19/11555	GASKET 'D14M-905	Nos	2	2					
5266	T-19/11555A	GASKET 'D14M-906	Nos	2	2					
5267	T-19/11556	SHIM GASKET 'D14M-907	Nos	2	2					
5268	T-19/11556A	PACKING, 'D17M-800	Nos	2	2					
5269	T-19/11557	GASKET, 'D17M-801	Nos	3	3					
5270	T-19/11557A	PACKING 'D17M-802	Nos	10	10					
5271	T-19/11558	PACKING 'D17M-803	Nos	1	1					
5272	T-19/11559	PACKING 'D17M-805	Nos	4	4					
5273	T-19/11559A	PACKING 'D17M-806	Nos	3	3					
5274	T-19/11560	PACKING 'D17M-807	Nos	2	2					
5275	T-19/11560A	SPIRAL GASKET 'D17M-808	Nos	1	1					
5276	T-19/11562A	SPIRAL GASKET 'D17M-812	Nos	3	3					
5277	T-19/11563	SPIRAL GASKET 'D17M-813	Nos	1	1					
5278	T-19/11563A	SPIRAL GASKET 'D17M-814	Nos	1	1					
5279	T-19/11564	SPIRAL GASKET 'D17M-815	Nos	1	1					
5280	T-19/11564A	SPIRAL GASKET 'D17M-816	Nos	1	1					
5281	T-19/11565	SPIRAL GASKET 'D17M-817	Nos	1	1					
5282	T-19/11565A	SPIRAL GASKET 'D17M-818	Nos	1	1					
5283	T-19/11566	SPIRAL GASKET 'D17M-819	Nos	1	1					
5284	T-19/11566A	GASKET 'D17M-828	Nos	1	1					
5285	T-19/11567A	GASKET 'D17M-822	Nos	1	1					
5286	T-19/11568	GASKET 'D17M-823	Nos	1	1					
5287	T-19/11568A	GASKET 'D17M-824	Nos	1	1					
5288	T-19/11569	GASKET 'D17M-825	Nos	1	1					
5289	T-19/11569A	GASKET 'D17M-826	Nos	3	3					
5290	T-19/11570	GASKET 'D17M-821	Nos	1	1					
5291	T-19/11570A	GASKET 'D17M-827	Nos	1	1					
5292	T-19/11571	CAGE 'GASKET 'D17M-829	Nos	8	8					
5293	T-19/11572	GASKET 'D17M-831	Nos	1	1					
5294	T-19/11572A	GASKET 'D17M-832	Nos	1	1					
5295	T-19/11573	GASKET 'D17M-833	Nos	1	1					
5296	T-19/11573A	GASKET 'D17M-834	Nos	2	2					

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5297	T-19/11574	GASKET 'D17M-835	Nos	1	1					
5298	T-19/11574A	GASKET 'D17M-836	Nos	1	1					
5299	T-19/11575	GASKET 'D17M-837	Nos	1	1					
5300	T-19/11575A	GASKET 'D17M-838	Nos	2	2					
5301	T-19/11576	BONNET 'GASKET 'D17M-8839	Nos	1	1					
5302	T-19/11576A	GASKET 'D17M-840	Nos	1	1					
5303	T-19/11577	GASKET 'D17M-841	Nos	1	1					
5304	T-19/11577A	GASKET 'D17M-842	Nos	1	1					
5305	T-19/11578	GASKET 'D17M-843	Nos	2	2					
5306	T-19/11578A	GASKET 'D17M-844	Nos	1	1					
5307	T-19/11579	GASKET 'D17M-845	Nos	1	1					
5308	T-19/11579A	SHIM GASKET 'D17M-846	Nos	1	1					
5309	T-19/11580	DIAPHRAGM, 'D17M-847	Nos	2	2					
5310	T-19/11580A	DIAPHRAGM, 'D17M-848	Nos	2	2					
5311	T-19/11581	DIAPHRAGM, 'D17M-849	Nos	2	2					
5312	T-19/11581A	DIAPHRAGM, 'D17M-850	Nos	2	2					
5313	T-19/11582	DIAPHRAGM, 'D17M-851	Nos	2	2					
5314	T-19/11582A	DIAPHRAGM, 'D17M-852	Nos	2	2					
5315	T-19/11583	DIAPHRAGM, 'D17M-853	Nos	2	2					
5316	T-19/11583A	DIAPHRAGM, 'D17M-854	Nos	2	2					
5317	T-19/11584	DIAPHRAGM, 'D17M-855	Nos	2	2					
5318	T-19/11584A	DIAPHRAGM, 'D17M-856	Nos	2	2					
5319	T-19/11585A	DIAPHRAGM, 'D14R-001	Nos	4	4					
5320	T-19/11586	PACKING, 'D14R-002	Nos	20	20					
5321	T-19/11586A	SPIRAL GASKET 'D14R-003	Nos	4	4					
5322	T-19/11587	GASKET 'D14R-004	Nos	4	4					
5323	T-19/11587A	GASKET 'D14R-005	Nos	4	4					
5324	T-19/11588	GASKET 'D14R-006	Nos	4	4					
5325	T-19/11588A	GASKET 'D14R-007	Nos	4	4					
5326	T-19/11589	SHIM GASKET 'D14R-008	Nos	4	4					
5327	T-19/11589A	GASKET' D17R-400	Nos	3	3					
5328	T-19/11590	GASKET' D17R-401	Nos	6	6					

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1	2	3	4	5	6	7	8	10	11	12
5329	T-19/11590A	PACKING D17R-402	Nos	100	100					
5330	T-19/11591	PACKING D17R-403	Nos	25	25					
5331	T-19/11591A	PACKING D17R-404	Nos	15	15					
5332	T-19/11592	PACKING D17R-405	Nos	13	13					
5333	T-19/11592A	PACKING D17R-406	Nos	8	8					
5334	T-19/11593	PACKING D17R-407	Nos	4	4					
5335	T-19/11593A	SPIRAL GASKET' D17R-408	Nos	2	2					
5336	T-19/11594	SPIRAL GASKET' D17R-409	Nos	2	2					
5337	T-19/11594A	SPIRAL GASKET' D17R-410	Nos	1	1					
5338	T-19/11595	SPIRAL GASKET' D17R-411	Nos	2	2					
5339	T-19/11595A	SPIRAL GASKET' D17R-412	Nos	3	3					
5340	T-19/11596	SPIRAL GASKET' D17R-413	Nos	2	2					
5341	T-19/11596A	SPIRAL GASKET' D17R-414	Nos	2	2					
5342	T-19/11597A	SPIRAL GASKET' D17R-416	Nos	2	2					
5343	T-19/11598	SPIRAL GASKET' D17R-417	Nos	2	2					
5344	T-19/11598A	SPIRAL GASKET' D17R-418	Nos	1	1					
5345	T-19/11599	GASKET' D17R-419	Nos	4	4					
5346	T-19/11599A	SEAT RING, D17R-420	Nos	2	2					
5347	T-19/11600A	GASKET' D17R-422	Nos	2	2					
5348	T-20/11601	GASKET' D17R-423	Nos	1	1					
5349	T-20/11601A	GASKET' D17R-424	Nos	1	1					
5350	T-20/11602	GASKET' D17R-425	Nos	2	2					
5351	T-20/11602A	GASKET' D17R-428	Nos	3	3					
5352	T-20/11603	GASKET' D17R-427	Nos	2	2					
5353	T-20/11603A	GASKET' D17R-428	Nos	2	2					
5354	T-20/11604	GASKET' D17R-429	Nos	6	6					
5355	T-20/11604A	GASKET' D17R-430	Nos	3	3					
5356	T-20/11605	GASKET' D17R-431	Nos	2	2					
5357	T-20/11605A	GASKET' D17R-432	Nos	3	3					
5358	T-20/11606	GASKET' D17R-433	Nos	2	2					
5359	T-20/11606A	GASKET' D17R-434	Nos	3	3					
5360	T-20/11607	GASKET' D17R-435	Nos	1	1					

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5361	T-20/11607A	GASKET' D17R-436	Nos	4	4					
5362	T-20/11608	GASKET' D17R-437	Nos	1	1					
5363	T-20/11608A	GASKET' D17R-438	Nos	3	3					
5364	T-20/11609	GASKET' D17R-439	Nos	2	2					
5365	T-20/11610	GASKET' D17R-441	Nos	1	1					
5366	T-20/11610A	GASKET' D17R-442	Nos	2	2					
5367	T-20/11611	GASKET' D17R-443	Nos	3	3					
5368	T-20/11611A	GASKET' D17R-444	Nos	2	2					
5369	T-20/11612	GASKET' D17R-445	Nos	1	1					
5370	T-20/11612A	SHINE GASKET' D17R-446	Nos	2	2					
5371	T-20/11613	DIAPHRAGM, D17R-447	Nos	4	4					
5372	T-20/11613A	DIAPHRAGM, D17R-448	Nos	4	4					
5373	T-20/11614	DIAPHRAGM, CO2M-900	Nos	4	4					
5374	T-20/11614A	DIAPHRAGM, D17R-450	Nos	4	4					
5375	T-20/11615	DIAPHRAGM, D17R-451	Nos	4	4					
5376	T-20/11615A	DIAPHRAGM, D17R-452	Nos	4	4					
5377	T-20/11616	DIAPHRAGM, D17R-453	Nos	4	4					
5378	T-20/11616A	DIAPHRAGM, D17R-454	Nos	4	4					
5379	T-20/11617	DIAPHRAGM, D17R-455	Nos	4	4					
5380	T-20/11617A	DIAPHRAGM, D17R-456	Nos	4	4					
5381	T-20/11618	PACKING D17R-457	Nos	4	4					
5382	T-20/11618A	PACKING D17R-458	Nos	3	3					
5383	T-20/11619	GASKET' D17R-459	Nos	1	1					
5384	T-20/11619A	SPIRAL GASKET' D17R-460	Nos	1	1					
5385	T-20/11620	GASKET' D17R-461	Nos	1	1					
5386	T-20/11620A	SHINE 'GASKET' D17R-462	Nos	1	1					
5387	T-20/11622A	VIBRATION PICK UP, C03M-601	Nos	2	2					
5388	T-20/11623A	TARQUE TUBE ASSY: , D18M-213	Nos	1	1					
5389	T-20/11624	VACCUM SWITCH, D18M-214	Nos	1	1					
5390	T-20/11624A	PRESSURE SWITCH, C01R-953	Nos	1	1					
5391	T-20/11625	MAN HOLE GASKET, D07R-001	Nos	2	2					
5392	T-20/11625A	MAN HOLE GASKET, D07R-002	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
5393	T-20/11626	MAN HOLE GASKET, D07R-003	Nos	2	2					
5394	T-20/11626A	MAN HOLE GASKET, D07R-004	Nos	2	2					
5395	T-20/11627	MAN HOLE GASKET, D07R-005	Nos	2	2					
5396	T-20/11627A	MAN HOLE GASKET, D07R-006	Nos	2	2					
5397	T-20/11628	GASKET 315X5460, D01R-001	Nos	2	2					
5398	T-20/11628A	TUBE PLUG, D01M-003	Nos	150	150					
5399	T-20/11629	MAN HOLE GASKET, D01M-004	Nos	9	9					
5400	T-20/11629A	VENT HOLE GASKET, D01M-005	Nos	4	4					
5401	T-20/11630	MAN HOLE GASKET, D01M-006	Nos	4	4					
5402	T-20/11630A	GASKET, D01M-007	Nos	4	4					
5403	T-20/11631	LEVEL GAUGE GKASS, D01M-008	Nos	6	6					
5404	T-20/11631A	LEVEL GAUGE GKASS, D01M-009	Nos	6	6					
5405	T-20/11632	LEVEL GAUGE GKASS, D01M-010	Nos	6	6					
5406	T-20/11632A	COOLING TUBE BRUSH, D01M-011	Nos	965	965					
5407	T-20/11634	F.D.F MOTOR 2035KW. 6P.F02M-502	Nos	1	1					
5408	T-20/11634A	F.D.P MOTOR 4100KW. 4P.F02M-320	Nos	1	1					
5409	T-20/11635	C.W.P MOTOR 1650KW. 12P.F02M-321	Nos	1	1					
5410	T-20/11636	GLAND PACKING, D17M-693	Nos	1	1					
5411	T-20/11636A	GLAND PACKING, D17M-695	Nos	2	2					
5412	T-20/11637	GLAND PACKING, D17M-697	Nos	6	6					
5413	T-20/11640	GLAND PACKING, D17M-711	Nos	8	8					
5414	T-20/11641	GLAND PACKING, D17M-713	Nos	7	7					
5415	T-20/11641A	GAS PACKING, D17M-714	Nos	1	1					
5416	T-20/11644	GASKIT PACKING, D17M-722	Nos	5	5					
5417	T-20/11647	GASKIT PACKING, D17M-730	Nos	1	1					
5418	T-20/11648	GASKIT PACKING, D17M-732	Nos	1	1					
5419	T-20/11649	GASKIT PACKING, D17M-734	Nos	1	1					
5420	T-20/11651	GLAND PACKING, D17M-741	Nos	1	1					
5421	T-20/11651	GLAND PACKING, D17M-743	Nos	1	1					
5422	T-20/11654	GASKET PACKING, D17M-752	Nos	2	2					
5423	T-20/11655	GASKET PACKING, D17M-754	Nos	1	1					
5424	T-20/11656A	GASKET PACKING, D17M-758	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
5425	T-20/11657	GASKET PACKING, D17M-764	Nos	1	1					
5426	T-20/11657A	GASKET PACKING, D17M-765	Nos	1	1					
5427	T-20/11658	GLAND PACKING, D17M-766	Nos	1	1					
5428	T-20/11658A	GASKET PACKING, D17M-767	Nos	1	1					
5429	T-20/11659	GASKET PACKING, D17M-768	Nos	1	1					
5430	T-20/11659A	GASKET PACKING, D17M-769	Nos	1	1					
5431	T-20/11660	GASKET PACKING, D17M-770	Nos	3	3					
5432	T-20/11660A	GASKET PACKING, D17M-771	Nos	1	1					
5433	T-20/11661A	GASKET PACKING, D17M-773	Nos	1	1					
5434	T-20/11662A	GASKET PACKING, D17M-775	Nos	1	1					
5435	T-20/11663A	GASKET PACKING, D17M-902	Nos	1	1					
5436	T-20/11664	GLAND PACKING, D17M-903	Nos	1	1					
5437	T-20/11664A	GASKET PACKING, D17M-904	Nos	1	1					
5438	T-20/11665A	GASKET PACKING, D17M-906	Nos	2	2					
5439	T-20/11666A	GASKET PACKING, D17M-908	Nos	2	2					
5440	T-20/11667A	GASKET PACKING, D17M-910	Nos	8	8					
5441	T-20/11668A	GASKET PACKING, D17M-912	Nos	2	2					
5442	T-20/11669	GLAND PACKING, D17M-913	Nos	1	1					
5443	T-20/11669A	GASKET PACKING, D17M-914	Nos	1	1					
5444	T-20/11670	GLAND PACKING, D17M-915	Nos	45	45					
5445	T-20/11670A	GASKET PACKING, D17M-916	Nos	45	45					
5446	T-20/11671	GLAND PACKING, D17M-917	Nos	864	864					
5447	T-20/11671A	GASKET PACKING, D17M-918	Nos	147	147					
5448	T-20/11672	GLAND PACKING, D17M-919	Nos	40	40					
5449	T-20/11673	GLAND PACKING, D17M-921	Nos	1	1					
5450	T-20/11674	GLAND PACKING, D17M-923	Nos	4	4					
5451	T-20/11674A	GASKET PACKING, D17M-924	Nos	5	5					
5452	T-20/11675A	GASKET PACKING, D17M-926	Nos	12	12					
5453	T-20/11676	GLAND PACKING, D17M-227	Nos	3	3					
5454	T-20/11676A	GASKET PACKING, D17M-928	Nos	3	3					
5455	T-20/11677	GLAND PACKING, D17M-929	Nos	1	1					
5456	T-20/11677A	GASKET PACKING, D17M-930	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
5457	T-20/11678A	GASKET PACKING, D17M-932	Nos	1	1					
5458	T-20/11679	GLAND PACKING, D17M-933	Nos	40	40					
5459	T-20/11679A	GASKET PACKING, D17M-934	Nos	5	5					
5460	T-20/11680	GLAND PACKING, D17M-935	Nos	150	150					
5461	T-20/11681A	GASKET PACKING, D17M-938	Nos	1	1					
5462	T-20/11682A	GASKET PACKING, D17M-940	Nos	2	2					
5463	T-20/11683	GLAND PACKING, D17M-941	Nos	3	3					
5464	T-20/11684A	GLAND PACKING, D17M-944	Nos	5	5					
5465	T-20/11685	GLAND PACKING, D17M-945	Nos	21	21					
5466	T-20/11685A	GLAND PACKING, D17M-946	Nos	14	14					
5467	T-20/11687	GASKET PACKING, D17M-949	Nos	1	1					
5468	T-20/11687A	GASKET PACKING, D17M-950	Nos	3	3					
5469	T-20/11688	GASKET PACKING, D17M-951	Nos	2	2					
5470	T-20/11688A	GASKET PACKING, D17M-952	Nos	1	1					
5471	T-20/11689	GASKET PACKING, D17M-953	Nos	2	2					
5472	T-20/11689A	GASKET PACKING, D17M-954	Nos	1	1					
5473	T-20/11690	GASKET PACKING, D17M-955	Nos	1	1					
5474	T-20/11690A	GASKET PACKING, D17M-041	Nos	1	1					
5475	T-20/11691	GASKET PACKING, D17M-042	Nos	1	1					
5476	T-20/11691A	GLAND PACKING, D17M-043	Nos	1	1					
5477	T-20/11692	GASKET PACKING, D17M-044	Nos	1	1					
5478	T-20/11692A	GLAND PACKING, D17M-045	Nos	1	1					
5479	T-20/11693	GASKET PACKING, D17M-046	Nos	1	1					
5480	T-20/11695	GASKET PACKING, D17M-050	Nos	1	1					
5481	T-20/11695A	GLAND PACKING, D17M-051	Nos	1	1					
5482	T-20/11696	GASKET PACKING, D17M-052	Nos	1	1					
5483	T-20/11697	GASKET PACKING, D17M-054	Nos	1	1					
5484	T-20/11697A	GLAND PACKING, D17M-055	Nos	14	14					
5485	T-20/11698	GASKET PACKING, D17M-056	Nos	2	2					
5486	T-20/11698A	GASKET PACKING, D17M-057	Nos	8	8					
5487	T-20/11699	GASKET PACKING, D17M-058	Nos	1	1					
5488	T-20/11699A	GLAND PACKING, D17M-059	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
5489	T-20/11700	GASKET PACKING, D17M-060	Nos	1	1					
5490	T-21/11701	GASKET PACKING, D17M-062	Nos	1	1					
5491	T-21/11702	GASKET PACKING, D17M-064	Nos	2	2					
5492	T-21/11703	GASKET PACKING, D17M-066	Nos	1	1					
5493	T-21/11703B	GASKET PACKING, D17M-067	Nos	1	1					
5494	T-21/11703A	GLAND PACKING, D17M-068	Nos	1	1					
5495	T-21/11704	GASKET PACKING, D17M-070	Nos	1	1					
5496	T-21/11705	GASKET PACKING, D17M-072	Nos	1	1					
5497	T-21/11706	GASKET PACKING, D17M-074	Nos	1	1					
5498	T-21/11706A	GASKET PACKING, D17M-075	Nos	1	1					
5499	T-21/11707	GLAND PACKING, D17M-076	Nos	1	1					
5500	T-21/11707A	O" RING , D17M-077	Nos	1	1					
5501	T-21/11708	O" RING , D17M-078	Nos	2	2					
5502	T-21/11708A	O" RING , D17M-079	Nos	1	1					
5503	T-21/11709A	GASKET PACKING, D17M-081	Nos	1	1					
5504	T-21/11710	GLAND PACKING, D17M-0782	Nos	1	1					
5505	T-21/11711	O" RING , D17M-084	Nos	2	2					
5506	T-21/11711A	O" RING , D17M-085	Nos	1	1					
5507	T-21/11712A	GASKET , D17M-087	Nos	1	1					
5508	T-21/11713	GLAND PACKING, D17M-088	Nos	1	1					
5509	T-21/11714	O" RING , D17M-090	Nos	2	2					
5510	T-21/11714A	O" RING , D17M-091	Nos	1	1					
5511	T-21/11715A	GASKET , D17M-093	Nos	1	1					
5512	T-21/11716	GLAND PACKING, D17M-094	Nos	1	1					
5513	T-21/11718A	O" RING , D17M-630	Nos	1	1					
5514	T-21/11719A	O" RING , D17M-632	Nos	1	1					
5515	T-21/11720	DIAPHRAGM , D17M-634	Nos	1	1					
5516	T-21/11720A	O" RING , D17M-635	Nos	1	1					
5517	T-21/11721	O" RING , D17M-636	Nos	1	1					
5518	T-21/11721A	GASKET , D17M-637	Nos	2	2					
5519	T-21/11722	GASKET , D17M-638	Nos	1	1					
5520	T-21/11722A	O" RING , D17M-639	Nos	3	3					

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1	2	3	4	5	6	7	8	10	11	12
5521	T-21/11723	O" RING , D17M-640	Nos	1	1					
5522	T-21/11723A	VALVE , D17M-641	Nos	2	2					
5523	T-21/11724	O" RING , D17M-642	Nos	2	2					
5524	T-21/11724A	DIAPHRAGM, D17M-643	Nos	2	2					
5525	T-21/11725	GASKET , D17M-644	Nos	2	2					
5526	T-21/11725A	GASKET , D17M-645	Nos	2	2					
5527	T-21/11726	VALVE , D17M-646	Nos	1	1					
5528	T-21/11726A	O" RING , D17M-647	Nos	1	1					
5529	T-21/11727	DIAPHRAGM, D17M-648	Nos	1	1					
5530	T-21/11727A	GASKET , D17M-649	Nos	1	1					
5531	T-21/11728	GASKET , D17M-650	Nos	1	1					
5532	T-21/11729	GASKET , D17M-782	Nos	1	1					
5533	T-21/11729A	GASKET , D17M-783	Nos	2	2					
5534	T-21/11730	GASKET , D17M-784	Nos	1	1					
5535	T-21/11730A	GASKET , D17M-785	Nos	2	2					
5536	T-21/11731	GASKET , D17M-786	Nos	1	1					
5537	T-21/11731A	GASKET , D17M-787	Nos	1	1					
5538	T-21/11732	GASKET , D17M-788	Nos	1	1					
5539	T-21/11732A	GASKET , D17M-789	Nos	2	2					
5540	T-21/11733	GASKET , D17M-790	Nos	1	1					
5541	T-21/11733A	GASKET , D17M-791	Nos	2	2					
5542	T-21/11734A	GASKET , D17M-793	Nos	4	4					
5543	T-21/11735	GASKET , D17M-794	Nos	2	2					
5544	T-21/11735A	GASKET , D17M-795	Nos	4	4					
5545	T-21/11736	GASKET , D17M-796	Nos	2	2					
5546	T-21/11736A	GASKET , D17M-961	Nos	1	1					
5547	T-21/11737	PACKING, D17M-962	Nos	1	1					
5548	T-21/11737A	O" RING , D17M-963	Nos	1	1					
5549	T-21/11738	O" RING , D17M-964	Nos	1	1					
5550	T-21/11738A	O" RING , D17M-965	Nos	1	1					
5551	T-21/11739	O" RING , D17M-966	Nos	1	1					
5552	T-21/11739A	GASKET , D17M-967	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
5553	T-21/11740	PACKING , D17M-968	Nos	1	1					
5554	T-21/11740A	O" RING , D17M-969	Nos	1	1					
5555	T-21/11741A	O" RING , D17M-971	Nos	1	1					
5556	T-21/11742	O" RING , D17M-972	Nos	1	1					
5557	T-21/11742A	GASKET , D17M-973	Nos	1	1					
5558	T-21/11743	PACKING , D17M-974	Nos	1	1					
5559	T-21/11743A	O" RING , D17M-975	Nos	1	1					
5560	T-21/11744	O" RING , D17M-976	Nos	1	1					
5561	T-21/11744A	O" RING , D17M-977	Nos	1	1					
5562	T-21/11745	O" RING , D17M-978	Nos	1	1					
5563	T-21/11745A	GASKET , D17M-979	Nos	3	3					
5564	T-21/11746	PACKING , D17M-980	Nos	1	1					
5565	T-21/11746A	O" RING , D17M-981	Nos	1	1					
5566	T-21/11747A	O" RING , D17M-984	Nos	1	1					
5567	T-21/11748	O" RING , D17M-983	Nos	1	1					
5568	T-21/11748A	GASKET , D17M-985	Nos	1	1					
5569	T-21/11749	PACKING , D17M-986	Nos	1	1					
5570	T-21/11749A	O" RING , D17M-987	Nos	3	3					
5571	T-21/11751	GASKET , D17M-990	Nos	3	3					
5572	T-21/11751A	PACKING , D17M-991	Nos	1	1					
5573	T-21/11752	O" RING , D17M-992	Nos	1	1					
5574	T-21/11752A	O" RING , D17M-993	Nos	1	1					
5575	T-21/11753	O" RING , D17M-994	Nos	1	1					
5576	T-21/11753A	O" RING , D17M-995	Nos	1	1					
5577	T-21/11754	SHEET GASKET , D17M-143	Nos	3	3					
5578	T-21/11754A	GLAND PACKING, D17M-144	Nos	6	6					
5579	T-21/11755	SHEET GASKET , D17M-145	Nos	1	1					
5580	T-21/11755A	GLAND PACKING, D17M-146	Nos	2	2					
5581	T-21/11756	SOLENOID VALVE, E15M-39M-075	Nos	3	3					
5582	T-21/11757	GAUGE GLASS, CO1M-910	Nos	3	3					
5583	T-21/11757A	O" RING , D17M-651	Nos	1	1					
5584	T-21/11758A	SHEET PACKING , D17M-653	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
5585	T-21/11759A	O " RING, D17M-655	Nos	2	2					
5586	T-21/11760	SHEET PACKING , D17M-656	Nos	1	1					
5587	T-21/11760A	O " RING, D17M-657	Nos	2	2					
5588	T-21/11762A	SHEET PACKING , D17M-661	Nos	5	5					
5589	T-21/11764	SHEET PACKING , D17M-664	Nos	1	1					
5590	T-21/11765A	SHEET PACKING , D17M-667	Nos	1	1					
5591	T-21/11767	SHEET PACKING , D17M-670	Nos	5	5					
5592	T-21/11768	O " RING, D17M-672	Nos	6	6					
5593	T-21/11768A	SHEET PACKING , D17M-673	Nos	4	4					
5594	T-21/11769	O " RING, D17M-674	Nos	2	2					
5595	T-21/11770	SHEET PACKING , D17M-676	Nos	2	2					
5596	T-21/11770A	O " RING, D17M-677	Nos	1	1					
5597	T-21/11771A	SHEET PACKING , D17M-679	Nos	1	1					
5598	T-21/11772A	O " RING, D17M-681	Nos	7	7					
5599	T-21/11773	SHEET PACKING , D17M-682	Nos	4	4					
5600	T-21/11773A	O " RING, D17M-683	Nos	2	2					
5601	T-21/11774	O " RING, D17M-684	Nos	5	5					
5602	T-21/11774A	SHEET PACKING , D17M-685	Nos	3	3					
5603	T-21/11781A	GLAND PACKING , D17M-194	Nos	1	1					
5604	T-21/11782A	SEAL RING, D17M-106	Nos	3	3					
5605	T-21/11783A	SEAL RING, D17M-108	Nos	2	2					
5606	T-21/11784A	SEAL RING, D17M-110	Nos	1	1					
5607	T-21/11785	PACKING, D17M-111	Nos	1	1					
5608	T-21/11785A	PACKING, D17M-112	Nos	3	3					
5609	T-21/11786	SEAL RING, D17M-113	Nos	2	2					
5610	T-21/11786A	PACKING, D17M-114	Nos	2	2					
5611	T-21/11787	SEAL RING, D17M-115	Nos	1	1					
5612	T-21/11787A	PACKING, D17M-116	Nos	1	1					
5613	T-21/11788	SEAL RING, D17M-117	Nos	1	1					
5614	T-21/11788A	PACKING, D17M-118	Nos	1	1					
5615	T-21/11789	SEAL RING, D17M-119	Nos	2	2					
5616	T-21/11789A	SEAL RING, D17M-120	Nos	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
5617	T-21/11790	PACKING, JO4M-001	Nos	2	2					
5618	T-21/11790A	O" RING E06M-007	Nos	2	2					
5619	T-21/11791A	WASHER, E06M-010	Nos	10	10					
5620	T-21/11792	TERMINAL SCREW E06M-011	Nos	10	10					
5621	T-21/11792A	WASHER, E08M-010	Nos	10	10					
5622	T-21/11793	TERMINAL SCREW E08M-011	Nos	10	10					
5623	T-21/11795	O" RING D14M-012	Nos	1	1					
5624	T-21/11795A	WASHER, D14M-013	Nos	10	10					
5625	T-21/11796	TERMINAL SCREW D14M-014	Nos	10	10					
5626	T-21/11796A	PLATINIZED NIOBIUM-ANODE, D12R-011	Nos	16	16					
5627	T-21/11797	ZINC REFERENCE, D21R-012	Nos	4	4					
5628	T-21/11797A	SHELL OF BFP MOTOR, F02R-600 1/2	Nos	2	2					
5629	T-21/11798	SHELL OF BFP MOTOR, F02R-600 2/2	Nos	2	2					
5630	T-21/11798A	BEARING OF CWP MOTOR, F02R-601, NU248	Nos	2	2					
5631	T-21/11799	BEARING OF CWP MOTOR, F02R-602, NO.6236	Nos	2	2					
5632	T-21/11799A	BEARING OF CWP MOTOR, F02R-628, NO.29352	Nos	2	2					
5633	T-22/11801	BEARING OF BCWP MOTOR, F02R-605, B/NO.6324C3	Nos	2	2					
5634	T-22/11802	BEARING OF HDP MOTOR, F02R-607, B/NO.6212C3	Nos	2	2					
5635	T-22/11802A	BEARING OF INTAKE P.M, F02R-608, NO.7320 ATDB+KL3(	Nos	3	3					
5636	T-22/11804A	BEARING OF AUX: OIL P.M, F02R-636, 1/2	Nos	2	2					
5637	T-22/11806	BEARING JACKING OIL P. MOTOR, F02R-637, 2/2	Nos	2	2					
5638	T-22/11806A	BEARING OF FDF MOTOR, F02R-631, 1/2	Nos	2	2					
5639	T-22/11807	BEARING OF FDF MOTOR, F02R-631, 2/2	Nos	2	2					
5640	T-22/11807A	BEARING OF GRF MOTOR, F02R-632, 1/2	Nos	2	2					
5641	T-22/11808	BEARING OF GRF MOTOR, F02R-632, 2/2	Nos	2	2					
5642	T-22/11808A	BEARING OF INST: AIR COMPRESSOR MOTOR, F02R-634	Nos	2	2					
5643	T-22/11809A	BEARING OF SERVICE AIR COMPRESSOR MOTOR, F02R	Nos	4	4					
5644	T-22/11810	BEARING OF R.O PUMP MOTOR, F02R-633, 1/2	Nos	1	1					
5645	T-22/11810A	BEARING OF R.O PUMP MOTOR, F02R-633, 2/2	Nos	2	2					
5646	T-22/11811	BEARING OF DRINKING WATER FEED PUMP MOTOR, F02	Nos	4	4					
5647	T-22/11812	BEARING OF COOLING F02R-614,	Nos	2	2					
5648	T-22/11813	BEARING OF FILTER B WASHER, F02R-616,	Nos	2	2					

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5649	T-22/11813A	BEARING OF WATER TRANFER PUMP MOTOR, F02R-117,	Nos	4	4					
5650	T-22/11815	BALL BEARING , D07M-037	Nos	1	1					
5651	T-22/11816	GLAND PACKING, D07M-039	Nos	24	24					
5652	T-22/11816A	FLAT GASKET, D07M-040	Nos	4	4					
5653	T-22/11817	FLAT BE GASKET, D07M-041	Nos	4	4					
5654	T-22/11817A	FLAT GASKET, D07M-042	Nos	4	4					
5655	T-22/11818	FLAT GASKET, D07M-043	Nos	4	4					
5656	T-22/11818A	PACKING, D07M-044	Nos	8	8					
5657	T-22/11819	PACKING SLAVE, D07M-045	Nos	4	4					
5658	T-22/11819A	STUFFING BOX PACKING, D02M-102	Nos	4	4					
5659	T-22/11820	FLAT GASKET, D02M-103	Nos	1	1					
5660	T-22/11820A	FLAT GASKET, D02M-104	Nos	1	1					
5661	T-22/11821	FLAT GASKET, D02M-105	Nos	1	1					
5662	T-22/11821A	FLAT GASKET, D02M-106	Nos	1	1					
5663	T-22/11822	FLAT GASKET, D02M-107	Nos	1	1					
5664	T-22/11822A	FLAT GASKET, D02M-108	Nos	1	1					
5665	T-22/11823	IMPELLER, D02M-109	Nos	2	2					
5666	T-22/11829	MOTOR BEARING, F02M-012	Nos	1	1					
5667	T-22/11831A	MOTOR BEARING, F02M-017	Nos	2	2					
5668	T-22/11832A	MOTOR BEARING, F02M-021	Nos	4	4					
5669	T-22/11837A	BALL BEARING, F02M-038	Nos	8	8					
5670	T-22/11838A	BALL BEARING, F02M-040	Nos	4	4					
5671	T-22/11841	BEARING FOR ELECT: MOTOR, F02M-045, 6205	Nos	8	8					
5672	T-22/11842	BEARING FOR ELECT: MOTOR, F02M-047, 6208	Nos	3	3					
5673	T-22/11842A	BEARING FOR ELECT: MOTOR, F02M-048, 6206	Nos	2	2					
5674	T-22/11848	BALL BEARING, F02M-028, 6209	Nos	4	4					
5675	T-22/11849	MOTOR BEARING, F02M-030, 6311	Nos	2	2					
5676	T-22/11854	SHELL OF BFP MOTOR, 1/2 F02M-300	Nos	2	2					
5677	T-22/11854A	SHELL OF BFP MOTOR, 2/2 F02M-300	Nos	2	2					
5678	T-22/11855A	BEARING OF CWP MOTOR , F02M-302, 6236	Nos	2	2					
5679	T-22/11856	BEARING OF CWP MOTOR , F02M-324, 29352	Nos	2	2					
5680	T-22/11857A	BEARING OF CWP MOTOR , F02M-305, 6324C3	Nos	2	2					

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5681	T-22/11860	BEARING OF COOLING TOWER FAN MOTOR , F02M-310	Nos	2	2					
5682	T-22/11861	BEARING OF AUX: OIL MOTOR , F02M-566, 1/2 6212C3	Nos	2	2					
5683	T-22/11861A	BEARING OF AUX: OIL PUMP MOTOR , F02M-556, 2/2 62	Nos	2	2					
5684	T-22/11862A	BEARING OF JAKING OIL PUMP MOTOR , F02M-557, 2/2	Nos	2	2					
5685	T-22/11863A	BEARING OF FDF MOTOR , F02M-552, 2/2	Nos	2	2					
5686	T-22/11864	BEARING OF GRF MOTOR , F02M-551, 1/2 6226	Nos	2	2					
5687	T-22/11864A	BEARING OF GRF MOTOR , F02M-551, 2/2 NU6226	Nos	2	2					
5688	T-22/11865	BEARING OF INSTRUMENT AIR COMPRESSOR MOTOR ,	Nos	2	2					
5689	T-22/11865A	BEARING OF INSTRUMENT AIR COMPRESSOR MOTOR ,	Nos	2	2					
5690	T-22/11866	BEARING OF SERVICE AIR COMPRESSOR MOTOR , F02M	Nos	4	4					
5691	T-22/11866A	BEARING OF R.O.P MOTOR , F02M-553, 1/2 6218	Nos	2	2					
5692	T-22/11867A	BEARING OF R.O.P MOTOR , F02M-555, 1/2 NU218	Nos	2	2					
5693	T-22/11868A	BEARING OF R.O.P MOTOR , F02M-554, 1/2 NU318	Nos	2	2					
5694	T-22/11869A	BEARING OF DRINKING WATER FEED PUMP MOTOR , F	Nos	4	4					
5695	T-22/11871A	BEARING OF BACK WASHING PUMP MOTOR , F02M-316	Nos	2	2					
5696	T-22/11872	BEARING OF TREATED WATER TOWER PUMP MOTOR ,	Nos	4	4					
5697	T-22/11872A	BEARING OF RIVER WATER MOTOR , F02M-318, 6218	Nos	2	2					
5698	T-22/11873	BEARING OF RIVER WATER MOTOR , F02M-319, 6314	Nos	2	2					
5699	T-22/11873A	GATE VALVE, D17M-174	Nos	2	2					
5700	T-22/11874	GLOBE VALVE, D17M-175	Nos	2	2					
5701	T-22/11874A	SOLENOID BODY D17M-176	Nos	2	2					
5702	T-22/11875A	ABS: PRESS: TRANSMITTER, D18M-201	Nos	1	1					
5703	T-22/11876	ABS: PRESS: TRANSMITTER, D18M-202	Nos	1	1					
5704	T-22/11876A	PRESS: TRANSMITTER, D18M-203	Nos	1	1					
5705	T-22/11877	PRESS: TRANSMITTER, D18M-204	Nos	1	1					
5706	T-22/11877A	PRESS: TRANSMITTER, D18M-205	Nos	1	1					
5707	T-22/11878	PRESS: TRANSMITTER, D18M-206	Nos	1	1					
5708	T-22/11878A	DIFF: PRESS: TRANSMITTER, D18M-207	Nos	1	1					
5709	T-22/11879	DIFF: PRESS: TRANSMITTER, D18M-208	Nos	1	1					
5710	T-22/11879A	DIFF: PRESS: TRANSMITTER, D18M-209	Nos	1	1					
5711	T-22/11880	COMPACT CONTROLLER, D18M-210	Nos	1	1					
5712	T-22/11885	RANGE CARD, H06M-001	Nos	8	8					

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5713	T-22/11889	DIFF: PRESS: TRANSMITTER, CO1R-951	Nos	1	1					
5714	T-22/11889A	COMPACT CONTROLLER, CO1R-952	Nos	1	1					
5715	T-22/11890	PEN TIP CO3R-011	Nos	976	976					
5716	T-22/11892A	CHART PAPPER, C03R-016	Nos	233	233					
5717	T-22/11893	CHART PAPPER, C03R-017	Nos	89	89					
5718	T-22/11896A	CHART PAPPER, HO6R-006	Nos	225	225					
5719	T-22/11897	THYRESTOR STACK G02M-007	Nos	2	2					
5720	T-22/11897A	PULSE INPUT H01M-020	Nos	1	1					
5721	T-22/11898	C.T FOR EX: TR: PRIME FO1M-322	Nos	2	2					
5722	T-22/11898A	CLOSING COIL FOR ACB- F01M-320	Nos	5	5					
5723	T-23/11928A	BULB FOR SIGNAL LAMP, F01M-306	Nos	48	48					
5724	T-23/11929	BULB FOR SIGNAL LAMP, F01M-307	Nos	6	6					
5725	T-23/11929A	GLOBE FOR SIGNAL LAMP, F01M-308	Nos	4	4					
5726	T-23/11930	GLOBE FOR SIGNAL LAMP, F01M-309	Nos	9	9					
5727	T-23/11930A	BULB FOR SIGNAL LAMP, F01M-310	Nos	9	9					
5728	T-23/11931	BULB FOR SIGNAL LAMP, F01M-3011	Nos	8	8					
5729	T-23/11934	SPARE PARTS BOX F01M-317	Nos	1	1					
5730	T-23/11935	SPARE PARTS BOX F01M-319	Nos	4	4					
5731	T-23/11936	TRIPPING COIL , F01M-321	Nos	5	5					
5732	T-23/11936A	C.T FOR TR: SEC, F01M-323	Nos	2	2					
5733	T-23/11937	C.T FOR AVR, F01M-324	Nos	2	2					
5734	T-23/11937A	C.T FOR THYRESTOR, F01M-325	Nos	2	2					
5735	T-23/11938	C.R.T MONITOR H03M005	Nos	1	1					
5736	T-23/11938A	C.R.T MONITOR H03R001	Nos	1	1					
5737	T-23/11939	FUSE, 15A H01R-002	Nos	10	10					
5738	T-23/11939A	FUSE, 7.5A H01R-002	Nos	40	40					
5739	T-23/11940	FUSE, 5A H01R-002	Nos	40	40					
5740	T-23/11940A	FUSE, 3A H01R-002	Nos	150	150					Foc
5741	T-23/11941	FUSE, 2A H01R-002	Nos	50	50					Foc
5742	T-23/11941A	FUSE, 0.3A H01R-002	Nos	20	20					Foc
5743	T-23/11942	FUSE, 0.5A H01R-002	Nos	10	10					Foc
5744	T-23/11942A	FUSE, 1A H01R-002	Nos	20	20					Foc

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1	2	3	4	5	6	7	8	10	11	12
5745	T-23/11943	INDICATOR LAMP, H01R-001	Nos	100	100					Foc
5746	T-23/11943A	INDICATOR LAMP, H01R-001	Nos	80	80					Foc
5747	T-23/11944	INDICATOR LAMP, H01R-001	Nos	60	60					Foc
5748	T-23/11944A	PAPPER FOR PRINTER, H02R-001	Nos	46	46					Foc
5749	T-23/11945	RIBBON FOR PRINTER, H02R-002	Nos	100	100					Foc
5750	T-23/11946	RIBBON FOR HARD COPY, H07R-001	Nos	5	5					Foc
5751	T-23/11953	ALTERNATING CURRENT SECTION, H01M-040-041	Nos	1	1					Foc
5752	T-23/11953A	POWER SUPPLY AND CONTROL UNIT H01M-042	Nos	1	1					Foc
5753	T-23/11954	POWER SUPPLY FOR LOGIC, H01M-043	Nos	1	1					Foc
5754	T-23/11964	POWER SUPPLY FOR PIO' H01M-045	Nos	1	1					Foc
5755	T-23/11964A	POWER SUPPLY FOR LOGIC, H01M-046	Nos	1	1					Foc
5756	T-23/11965	POWER SUPPLY FOR AZ' H01M-047	Nos	1	1					Foc
5757	T-23/11965A	SIGNAL CONDITION UNIT' H01M-0051	Nos	1	1					Foc
5758	T-23/11966	SIGNAL CONDITION UNIT' H01M-0052	Nos	1	1					Foc
5759	T-23/11966A	SIGNAL CONDITION UNIT' H01M-0053	Nos	1	1					Foc
5760	T-23/11967	POWER SUPPLY AUXILIARY' H01M-048	Nos	1	1					Foc
5761	T-23/11968	PAPPER FOR PRINTER' H02M-002	Nos	20	20					Foc
5762	T-23/11968A	RIBBON FOR PRINTER' H02M-003	Nos	26	26					Foc
5763	T-23/11969	RIBBON FOR HARD COPY' H07M-001	Nos	5	5					Foc
5764	T-23/11970	INDICATOR LAMP' YS8A, H01M-030	Nos	40	40					Foc
5765	T-23/11970A	INDICATOR LAMP' YS8G, H01M-030	Nos	32	32					Foc
5766	T-23/11971	INDICATOR LAMP' YS8R, H01M-030	Nos	24	24					Foc
5767	T-23/11971A	FUSE, 15A H01M-035	Nos	4	4					Foc
5768	T-23/11972	FUSE, 7.5A H01M-035	Nos	20	20					Foc
5769	T-23/11972A	FUSE, 5A H01M-035	Nos	16	16					Foc
5770	T-23/11973	FUSE, 3A H01M-035	Nos	60	60					Foc
5771	T-23/11974	FUSE, 0.3A H01M-035	Nos	8	8					Foc
5772	T-23/11974A	FUSE, 0.5A H01M-035	Nos	4	4					Foc
5773	T-23/11975	FUSE, 1A H01M-035	Nos	8	8					Foc
5774	T-23/11975A	REMOTE CONSOLE INTERFACE H01M-054	Nos	1	1					Foc
5775	T-23/11976	FAN FOR HARD COPY, H07M-003	Nos	1	1					Foc
5776	T-23/11977A	FUSE FOR HARD COPY, H07M-002	Nos	1	1					Foc

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5777	T-23/11978	FUSE FOR ENGINEER DESK PRINTER, H02M-006	Nos	2	2					Foc
5778	T-23/11978A	FUSE FOR PRINTER DESK , H02M-007	Nos	4	4					Foc
5779	T-23/11979	FUSE FOR PRINTER, H02M-008	Nos	4	4					Foc
5780	T-23/11979A	FUSE 10A, H03M-008	Nos	3	3					Foc
5781	T-23/11980	FUSE 3A, H03M-009	Nos	3	3					Foc
5782	T-23/11980A	FUSE FOR A08-AA H01M-062	Nos	8	8					Foc
5783	T-23/11981	FUSE FOR K.B ADOPTOR, H01M-063	Nos	2	2					Foc
5784	T-23/11981A	LAMP FOR SYSTEM PANNEL (YS86) H01M-055	Nos	16	16					Foc
5785	T-23/11982	LAMP FOR SYSTEM (YS8R) H01M-055	Nos	12	12					Foc
5786	T-23/11982A	LAMP FOR SYSTEM PANNEL (YS8A) H01M-055	Nos	16	16					Foc
5787	T-23/11983	LAMP FOR RELAY UNIT H01M-056	Nos	3	3					Foc
5788	T-23/11983A	LAMP FOR OPT DESK, H01M-057	Nos	3	3					Foc
5789	T-23/11984	LAMP FOR OPT ENGI: H01M-059	Nos	4	4					Foc
5790	T-23/11984A	LAMP FOR OPT ENGI: H01M-059	Nos	1	1					Foc
5791	T-23/11985	LAMP FOR PRINTER DESK H01M-058	Nos	2	2					Foc
5792	T-23/11986	CASING WEAR RING, D06M-002	Nos	20	20					Foc
5793	T-23/11986A	CASING WEAR RING, D06M-003	Nos	4	4					Foc
5794	T-23/11989A	SEAL OIL' E19M-003	Nos	1	1					Foc
5795	T-23/11990	BEARING' E19M-001	Nos	1	1					Foc
5796	T-23/11990A	PACKING' E19M-011	Nos	1	1					Foc
5797	T-23/11991	RING BACK UP' E19M-036	Nos	1	1					Foc
5798	T-23/11991A	O" RING 'E19M-006	Nos	1	1					Foc
5799	T-23/11992	RING BACK UP' E19M-012	Nos	1	1					Foc
5800	T-23/11993	PACKING' E19M-037	Nos	1	1					Foc
5801	T-23/11993A	RING BACK UP' E19M-013	Nos	1	1					Foc
5802	T-23/11994	SERPER' E19M-038	Nos	1	1					Foc
5803	T-23/11994A	RING DAMPER' E19M-014	Nos	1	1					Foc
5804	T-23/11995	RING BACK UP' E19M-039	Nos	1	1					Foc
5805	T-23/11997A	O" RING 'E19M-008	Nos	1	1					Foc
5806	T-23/11999A	O" RING 'E19M-025	Nos	1	1					Foc
5807	T-23/12000	O" RING 'E19M-010	Nos	1	1					Foc
5808	T-23/12000A	HOSE, E19M-004	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
5809	T-24/12001	BEARING' E19M-002	Nos	1	1					Foc
5810	T-24/12001A	GASKET' E19M-027	Nos	1	1					Foc
5811	T-24/12002	RING RUBBER' E19M-022	Nos	1	1					Foc
5812	T-24/12003	RING RUBBER' E19M-023	Nos	1	1					Foc
5813	T-24/12003A	RING RUBBER' E19M-048	Nos	3	3					Foc
5814	T-24/12004	RING RUBBER' E19M-024	Nos	1	1					Foc
5815	T-24/12004A	O" RING 'E19M-047	Nos	1	1					Foc
5816	T-24/12005	HOSE WAT' E19M-021	Nos	2	2					Foc
5817	T-24/12005A	O" RING 'E19M-025	Nos	1	1					Foc
5818	T-24/12006	RING' E19M-046	Nos	2	2					Foc
5819	T-24/12006A	HOSE' E19M-044	Nos	2	2					Foc
5820	T-24/12007	O" RING 'E19M-026	Nos	1	1					Foc
5821	T-24/12007A	BEARING' E19M-017	Nos	1	1					Foc
5822	T-24/12008	BEARING' E19M-041	Nos	1	1					Foc
5823	T-24/12008A	BALL BEARING' E19M-018	Nos	1	1					Foc
5824	T-24/12009	BALL BEARING' E19M-042	Nos	1	1					Foc
5825	T-24/12009A	BEARING' E19M-019	Nos	1	1					Foc
5826	T-24/12010	REPAIR KIT' E19M-049	Nos	1	1					Foc
5827	T-24/12010A	PACKING' E19M-028	Nos	1	1					Foc
5828	T-24/12011	OIL SEAL' E19M-020	Nos	1	1					Foc
5829	T-24/12011A	OIL SEAL' E19M-043	Nos	1	1					Foc
5830	T-24/12012	REPAIR KIT' E19M-050	Set	1	1					Foc
5831	T-24/12012A	REPAIR KIT' E19M-029	Set	1	1					Foc
5832	T-24/12013	RELAY' E19M-025	Nos	2	2					Foc
5833	T-24/12013A	SWITCH' E19R-026	Nos	1	1					Foc
5834	T-24/12015A	SWITCH' E19R-027	Nos	1	1					Foc
5835	T-24/12017A	FILTER ELEMET' E19R-049-2	Nos	5	5					Foc
5836	T-24/12018	BRUSH, E19R-050	Nos	1	1					Foc
5837	T-24/12019A	LAMP' E19R-053	Nos	2	2					Foc
5838	T-24/12020	BLADE WIPER' E19R-054	Nos	2	2					Foc
5839	T-24/12020A	BLADE WIPER' E19R-055	Nos	2	2					Foc
5840	T-24/12021	ELEMENT KIT' E19R-083	Nos	7	7					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
5841	T-24/12021A	ELEMENT KIT' E19R-084	Nos	4	4					Foc
5842	T-24/12022	BELT' E19R-087	Nos	2	2					Foc
5843	T-24/12022A	THERMOSTATE, E19R-088	Nos	2	2					Foc
5844	T-24/12023	ELEMENT KIT' E19R-091	Nos	4	4					Foc
5845	T-24/12023A	RELAY ASSY:' E19R-092	Nos	1	1					Foc
5846	T-24/12024A	ELEMENT KIT' E19R-096	Nos	4	4					Foc
5847	T-24/12025	FUSE' E19R-100	Nos	23	23					Foc
5848	T-24/12025A	BLADE ASSY:' E19R-101	Nos	2	2					Foc
5849	T-24/12026	BULB' E19R-102	Nos	9	9					Foc
5850	T-24/12026A	BULB' E19R-103	Nos	7	7					Foc
5851	T-24/12028	BULB'(24V) E19R-109	Nos	8	8					Foc
5852	T-24/12028A	BULB' E19R-110	Nos	16	16					Foc
5853	T-24/12029	BULB LAMP ROOM' E19R-111	Nos	20	20					Foc
5854	T-24/12029A	BULB' E19R-112	Nos	19	19					Foc
5855	T-24/12030A	CYLINDER ASSY' E19R-001	Nos	2	2					Foc
5856	T-24/12031	SHOE ASSY' E19R-002	Nos	4	4					Foc
5857	T-24/12031A	LINING' E19R-003	Nos	8	8					Foc
5858	T-24/12032	RIVET' E19R-004	Nos	80	80					Foc
5859	T-24/12032A	SPRING' E19R-005	Nos	4	4					Foc
5860	T-24/12033	BAND' E19R-006	Nos	2	2					Foc
5861	T-24/12033A	LININIG' E19R-007	Nos	24	24					Foc
5862	T-24/12034	RIVET' E19R-008	Nos	56	56					Foc
5863	T-24/12034A	SET SCREW' E19R-009	Nos	4	4					Foc
5864	T-24/12035	PIN SPRING' E19R-010	Nos	4	4					Foc
5865	T-24/12035A	PIN SPLIT' E19R-011	Nos	2	2					Foc
5866	T-24/12036	PIN SPLIT' E19R-012	Nos	2	2					Foc
5867	T-24/12036A	PIN' E19R-013	Nos	2	2					Foc
5868	T-24/12037	PIN SNAP' E19R-014	Nos	2	2					Foc
5869	T-24/12037A	PIN' E19R-015	Nos	2	2					Foc
5870	T-24/12038	PIN SPRING' E19R-016	Nos	5	5					Foc
5871	T-24/12038A	PLUG' E19R-017	Nos	1	1					Foc
5872	T-24/12039	PRESSURE GAUGE' E19R-018	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
5873	T-24/12039A	JOINT ASSY' E19R-019	Nos	1	1					Foc
5874	T-24/12040	SEAT' E19R-020	Nos	1	1					Foc
5875	T-24/12040A	LOCK ASSY' E19R-021	Nos	1	1					Foc
5876	T-24/12041	HANDLE' E19R-022	Nos	1	1					Foc
5877	T-24/12041A	BUZZER' E19R-023	Nos	1	1					Foc
5878	T-24/12042A	SWITCH' E19R-027	Nos	1	1					Foc
5879	T-24/12043	BUZZER' E19R-030	Nos	1	1					Foc
5880	T-24/12043A	SWITCH' E19R-033	Nos	1	1					Foc
5881	T-24/12044	SWITCH ASSY' E19R-035	Nos	2	2					Foc
5882	T-24/12044A	WEIGHT ASSY' E19R-037	Nos	1	1					Foc
5883	T-24/12045	JOINT' E19R-038	Nos	2	2					Foc
5884	T-24/12045A	CYLINDER ASSY ' E19R-039	Nos	1	1					Foc
5885	T-24/12046	CYLINDER ASSY ' E19R-040	Nos	1	1					Foc
5886	T-24/12046A	CYLINDER ASSY ' E19R-042	Nos	2	2					Foc
5887	T-24/12047	VALVE ASSY: SOLENOID 'E19R-043	Nos	1	1					Foc
5888	T-24/12047A	VALVE ASSY: SOLENOID 'E19R-044	Nos	1	1					Foc
5889	T-24/12048A	SCRAPER' E19R-046	Nos	3	3					Foc
5890	T-24/12049	SCRAPER' E19R-047	Nos	15	15					Foc
5891	T-24/12050A	VALVE INLET' E19R-057	Nos	16	16					Foc
5892	T-24/12051	VALVE' E19R-058	Nos	8	8					Foc
5893	T-24/12051A	VALVE KIT' E19R-059	Nos	8	8					Foc
5894	T-24/12052	NOZZLE ASSY: 'E19R-060	Nos	8	8					Foc
5895	T-24/12052A	VALVE INLET' E19R-061	Nos	8	8					Foc
5896	T-24/12053	VALVE KIT' E19R-062	Nos	8	8					Foc
5897	T-24/12053A	CAP' E19R-063	Nos	16	16					Foc
5898	T-24/12054	KEY FEATHER' E19R-064	Nos	32	32					Foc
5899	T-24/12054A	SEAL VALVE STEAM 'E19R-065	Nos	7	7					Foc
5900	T-24/12055	WASHER' E19R-066	Nos	16	16					Foc
5901	T-24/12055A	SPRING VALVE' E19R-067	Nos	16	16					Foc
5902	T-24/12056	SPRING VALVE' E19R-068	Nos	16	16					Foc
5903	T-24/12056A	SEAT VALVE' E19R-069	Nos	16	16					Foc
5904	T-24/12057	FOLLOWER CAMP ' E19R-070	Nos	16	16					Foc

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1	2	3	4	5	6	7	8	10	11	12
5905	T-24/12057A	ROD PUSH ' E19R-071	Nos	16	16					Foc
5906	T-24/12058	SEAT VALVE' E19R-072	Nos	1	1					Foc
5907	T-24/12058A	LINER 'E19R-073	Nos	8	8					Foc
5908	T-24/12059	COLLER COM 'E19R-074	Nos	5	5					Foc
5909	T-24/12059A	METAL SET 'E19R-075	Nos	1	1					Foc
5910	T-24/12060	METAL SET 'E19R-076	Nos	3	3					Foc
5911	T-24/12060A	PISTON 'E19R-077	Nos	8	8					Foc
5912	T-24/12061	RING SET 'E19R-078	Nos	1	1					Foc
5913	T-24/12061A	PIN KIT PISTON 'E19R-079	Nos	8	8					Foc
5914	T-24/12062	RIN G SNAP 'E19R-080	Nos	16	16					Foc
5915	T-24/12062A	BUSHING 'E19R-081	Nos	8	8					Foc
5916	T-24/12063	SHELL METAL 'E19R-082	Nos	1	1					Foc
5917	T-24/12064	ELEMENT KIT 'E19R-084	Nos	1	1					Foc
5918	T-24/12064A	PRIMING' E19R-085	Nos	1	1					Foc
5919	T-24/12065	SEAL 'E19R-086	Nos	2	2					Foc
5920	T-24/12065A	PULANGER BLOCK 'E19R-089	Nos	8	8					Foc
5921	T-24/12066	NOZZLE ASSY: 'E19R-090	Nos	16	16					Foc
5922	T-24/12066A	ELEMENT KIT 'E19R-091	Nos	3	3					Foc
5923	T-24/12067	BELT' E19R-093	Nos	2	2					Foc
5924	T-24/12068A	COVER, 'E19R-097	Nos	1	1					Foc
5925	T-24/12069A	VALVE ASSY: 'E19R-099	Nos	1	1					Foc
5926	T-24/12070	OIL PRESSURE METER 'E19R-104	Nos	1	1					Foc
5927	T-24/12070A	SWITCH ASSY: 'E19R-105	Nos	1	1					Foc
5928	T-24/12071	TEMP: METER 'E19R-106	Nos	1	1					Foc
5929	T-24/12071A	BULB 'E19R-110	Nos	10	10					Foc
5930	T-24/12072	RELAY ASSY: 'E19R-114	Nos	2	2					Foc
5931	T-24/12072A	PIPE A307GR- D17M-207	Nos	1	1					Foc
5932	T-24/12073A	PIPE SM41A 'D17M-249	Nos	1	1					Foc
5933	T-24/12074	PIPE SB42 'D17M-260	Nos	1	1					Foc
5934	T-24/12074A	AUX: RELAY, F01M-600	Nos	20	20					Foc
5935	T-24/12075	AUX: RELAY, F01M-601	Nos	20	20					Foc
5936	T-24/12075A	AUX: RELAY, F01M-602	Nos	20	20					Foc

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1	2	3	4	5	6	7	8	10	11	12
5937	T-24/12076	TIME RELAY, F01M-603	Nos	8	8					Foc
5938	T-24/12076A	TIME RELAY, F01M-604	Nos	12	12					Foc
5939	T-24/12077	TIME RELAY, F01M-605	Nos	19	19					Foc
5940	T-24/12077A	TIME RELAY, F01M-612	Nos	20	20					Foc
5941	T-24/12078	TIME RELAY, F01M-613	Nos	18	18					Foc
5942	T-24/12078A	TIME RELAY, F01M-606	Nos	18	18					Foc
5943	T-24/12079	TIME RELAY, F01M-607	Nos	20	20					Foc
5944	T-24/12079A	TIME RELAY, F01M-608	Nos	20	20					Foc
5945	T-24/12080	TIME RELAY, F01M-609	Nos	12	12					Foc
5946	T-24/12080A	TIME RELAY, F01M-610	Nos	15	15					Foc
5947	T-24/12081	TIME RELAY, F01M-611	Nos	20	20					Foc
5948	T-24/12081A	CONTROL SWITCH, FO1M-614	Nos	5	5					Foc
5949	T-24/12082	CONTROL SWITCH, FO1M-615	Nos	5	5					Foc
5950	T-24/12082A	CONTROL SWITCH, FO1M-616	Nos	5	5					Foc
5951	T-24/12083	CONTROL SWITCH, FO1M-617	Nos	5	5					Foc
5952	T-24/12083A	FUSE, FO1M-618	Nos	100	100					Foc
5953	T-24/12084	FUSE, FO1M-619	Nos	25	25					Foc
5954	T-24/12085	Megnetic Contactor F01M-621	Nos	13	13					Foc
5955	T-24/12085A	Megnetic Contactor F01M-622	Nos	8	8					Foc
5956	T-24/12086	Megnetic Contactor F01M-623	Nos	4	4					Foc
5957	T-24/12086A	Megnetic Contactor F01M-624	Nos	6	6					Foc
5958	T-24/12087	Megnetic Contactor F01M-625	Nos	5	5					Foc
5959	T-24/12090	Fan For I.V.C -401-H03M-006	Nos	2	2					Foc
5960	T-24/12090A	Fan For I.V.C -401-H03M-007	Nos	3	3					Foc
5961	T-24/12091	FUSE FOR SYSTEM CONSOLE UNIT, H01M-060	Nos	2	2					Foc
5962	T-24/12091A	FUSE FOR SYSTEM CONSOLE UNIT, H01M-061	Nos	2	2					Foc
5963	T-24/12094	BALL BEARING, 621277, F02R-624	Nos	2	2					Foc
5964	T-24/12094A	BALL BEARING, 6313, F02R-625	Nos	1	1					Foc
5965	T-24/12096	BOX WITH LOCK, (EOP)	Nos	1	1					Foc
5966	T-24/12097A	DE- Motor Bearing 6311	Nos	2	2					Foc
5967	T-24/12098	DC Motor Bush F - 02M-611-6315	Nos	8	8					Foc
5968	T-24/12098A	DC Motor Bush F - 02M-612	Nos	8	8					Foc

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1	2	3	4	5	6	7	8	10	11	12
5969	T-24/12099	DC Motor Bush F - 02M-613	Nos	8	8					Foc
5970	T-25/12101A	Bearing For Seal Pump Vacume	Nos	4	4					
5971	T-25/12102	Bearing For H2 Gas Blower Pump Motor	Nos	2	2					
5972	T-25/12103A	DC MOTOR BRUSH, CO1R-950	Nos	8	8					Foc
5973	T-25/12104	DC MOTOR BEARING, FO2R-671	Nos	4	4					Foc
5974	T-25/12106A	BOLT & NUT, D02M-019	Nos	335	335					Foc
5975	T-25/12107	BOLT & NUT, D02M-020	Nos	59	59					Foc
5976	T-25/12107A	BOLT & NUT, D02M-029	Nos	2	2					Foc
5977	T-25/12108A	BOLT & NUT, D02M-034	Nos	1	1					Foc
5978	T-25/12109	BOLT & NUT, D02M-037	Nos	2	2					Foc
5979	T-25/12109A	Washer P02-M-054	Nos	22	22					
5980	T-25/12110	WASHER, D02M-056	Nos	3	3					Foc
5981	T-25/12110A	LOCK WASHER, D02M-058	Nos	2	2					Foc
5982	T-25/12111	BOLT & NUT 'DO2M-064	Nos	166	166					Foc
5983	T-25/12111A	PLAIN WASHER' DO2M-071	Nos	31	31					Foc
5984	T-25/12112	HIGH NUT WITH BOLT' DO2M-076	Nos	154	154					Foc
5985	T-25/12114	CORNER ROLL, 'DO2M-084	Nos	1	1					Foc
5986	T-25/12119	BOX WITH LOCK	Nos	1	1					Foc
5987	T-25/12119A	GASKET FOR MAN HOLE, DIA=500	Nos	1	1					Foc
5988	T-25/12120	GASKET FOR MAN HOLE, DIA=600	Nos	1	1					Foc
5989	T-25/12120A	GASKET FOR MAN HOLE, DIA=450	Nos	4	4					Foc
5990	T-25/12121	GASKET FOR MAN HOLE, DIA=450	Nos	2	2					Foc
5991	T-25/12122	GASKET FOR MAN HOLE, DIA=450	Nos	2	2					Foc
5992	T-25/12122A	OIL SEAL 114	Nos	4	4					Foc
5993	T-25/12123	GASKET, 117-1	Nos	2	2					Foc
5994	T-25/12123A	GASKET, 117-1	Nos	2	2					Foc
5995	T-25/12124	GASKET, 117-1	Nos	2	2					Foc
5996	T-25/12124A	GASKET, 117-2	Nos	2	2					Foc
5997	T-25/12125	GASKET, 117-3	Nos	2	2					Foc
5998	T-25/12125A	GASKET, 117-4 (1)	Nos	2	2					Foc
5999	T-25/12126	GASKET, 117-4 (2)	Nos	2	2					Foc
6000	T-25/12126A	GLAND PACKING, 119	Nos	8	8					Foc

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1	2	3	4	5	6	7	8	10	11	12
6001	T-25/12127	O" RING, 115-1	Nos	2	2					Foc
6002	T-25/12127A	O" RING, 115-2	Nos	2	2					Foc
6003	T-25/12129A	GASKET, 117-1, B363-21	Nos	2	2					Foc
6004	T-25/12130	GASKET, 117-1, B363-22	Nos	2	2					Foc
6005	T-25/12130A	GLAND PACKING, 119-B363-23	Nos	8	8					Foc
6006	T-25/12131	V RING 227-B363-21	Nos	2	2					Foc
6007	T-25/12131A	PACKING, 32# 7001, B356-2	Nos	2	2					Foc
6008	T-25/12132	PACKING, E174-757- B357-1	Nos	3	3					Foc
6009	T-25/12132A	PACKING, 32# 7003, B358-1	Nos	3	3					Foc
6010	T-25/12133	STRING FOR "O" RING 3B354-1	Nos	1	1					Foc
6011	T-25/12133A	GASKET, 400X250 B354-3	Nos	9	9					Foc
6012	T-25/12134	GASKET, 450 B354-4	Nos	2	2					Foc
6013	T-25/12134A	GLAND PACKING, 01/2X2000 B355-1	Nos	4	4					Foc
6014	T-25/12135	STRING FOR "O" RING 2.3X1500-B355-2	Nos	1	1					Foc
6015	T-25/12135A	GASKET, B355-3	Nos	16	16					Foc
6016	T-25/12136	FLAT GASKET, B352-1	Nos	1	1					Foc
6017	T-25/12137	O" RING B352-3	Nos	1	1					Foc
6018	T-25/12138	O" RING B352-5	Nos	1	1					Foc
6019	T-25/12138A	O" RING B352-6	Nos	1	1					Foc
6020	T-25/12139A	SPLIT RING, B352-8	Nos	1	1					Foc
6021	T-25/12140	CASING WEAR RING, B352-9	Nos	2	2					Foc
6022	T-25/12140A	CASING WEAR RING, B352-10	Nos	14	14					Foc
6023	T-25/12141	BEARING SLEEVE, B352-11	Nos	1	1					Foc
6024	T-25/12141A	BEARING SLEEVE, B352-12	Nos	1	1					Foc
6025	T-25/12142	BEARING SLEEVE, B352-13	Nos	1	1					Foc
6026	T-25/12143A	FLAT GASKET, B353-3	Nos	1	1					Foc
6027	T-25/12144	FLAT GASKET, B353-4	Nos	1	1					Foc
6028	T-25/12144A	FLAT GASKET, B353-5	Nos	1	1					Foc
6029	T-25/12145	FLAT GASKET, B353-6	Nos	1	1					Foc
6030	T-25/12145A	O" RING, B353-7	Nos	1	1					Foc
6031	T-25/12146	GLAND PACKING, B-353-8	Nos	6	6					Foc
6032	T-25/12146A	CASING WEARING 'B-353-9	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6033	T-25/12147	SET SCREW FOR CASING WEAR RING 'B-353-10	Nos	4	4					Foc
6034	T-25/12147A	O" RING FOR GEAR COUPLING' B-353-11	Nos	2	2					Foc
6035	T-25/12148	O" RING FOR GEAR COUPLING' B-353-12	Nos	2	2					Foc
6036	T-25/12148A	COPPER STEEL, B-362-1	Nos	10	10					Foc
6037	T-25/12149	CONTACT NUT 'B-362-2	Nos	20	20					Foc
6038	T-25/12149A	CAP' B-362-3	Nos	10	10					Foc
6039	T-25/12150	R.H.M- SERIES' B-362-4	Nos	10	10					Foc
6040	T-25/12150A	GASKET' B-362-5	Nos	12	12					Foc
6041	T-25/12151	GASKET' B-362-6	Nos	10	10					Foc
6042	T-25/12151A	GASKET' B-362-7	Nos	2	2					Foc
6043	T-25/12152	O" RING B-362-8	Nos	20	20					Foc
6044	T-25/12152A	O" RING B-364-1	Nos	2	2					Foc
6045	T-25/12153	O" RING B-364-2	Nos	2	2					Foc
6046	T-25/12153A	O" RING B-364-3	Nos	1	1					Foc
6047	T-25/12154	O" RING B-364-4	Nos	4	4					Foc
6048	T-25/12154A	O" RING B-364-5	Nos	4	4					Foc
6049	T-25/12155	O" RING B-364-6	Nos	2	2					Foc
6050	T-25/12155A	O" RING B-364-8	Nos	4	4					Foc
6051	T-25/12156	O" RING B-364-9	Nos	4	4					Foc
6052	T-25/12156A	O" RING B-364-10	Nos	8	8					Foc
6053	T-25/12157	O" RING B-364-11	Nos	4	4					Foc
6054	T-25/12157A	O" RING B-364-12	Nos	2	2					Foc
6055	T-25/12158	O" RING B-364-13	Nos	2	2					Foc
6056	T-25/12158A	FILTER CORTRIDGE, B-359-1	Nos	20	20					Foc
6057	T-25/12160A	BEARING' B-359-5	Nos	1	1					Foc
6058	T-25/12161	BEARING' B-359-6	Nos	3	3					Foc
6059	T-25/12161A	OIL SEAL' B-359-7	Nos	3	3					Foc
6060	T-25/12162	WASHER' B-359-8	Nos	1	1					Foc
6061	T-25/12162A	WASHER' B-359-9	Nos	3	3					Foc
6062	T-25/12163	PACKING FOR SAFTY VALVE' B-359-10	Nos	2	2					Foc
6063	T-25/12163A	O RING 'B-359-11	Nos	1	1					Foc
6064	T-25/12165A	LANCE NOZZLE' B-504-1-1	Nos	6	6					Foc

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1	2	3	4	5	6	7	8	10	11	12
6065	T-25/12166	LANCE NOZZLE' B-504-1-2	Nos	1	1					Foc
6066	T-25/12166A	LANCE NOZZLE' B-504-1-3	Nos	8	8					Foc
6067	T-25/12167	V-BELT-B-504-1-4	Nos	14	14					Foc
6068	T-25/12168A	LEAD PLATE- 60100V-2	Nos	2	2					Foc
6069	T-25/12169	RING TYPE FLANGE GASKET 60100V-3	Nos	2	2					Foc
6070	T-25/12169A	RING TYPE FLANGE GASKET 60100V-4	Nos	2	2					Foc
6071	T-25/12170	CLOW WASHER, 60100V-6	Nos	18	18					Foc
6072	T-25/12170A	CLOW WASHER, 60100V-7	Nos	18	18					Foc
6073	T-25/12171	PACKING, 60100V-8	Nos	2	2					Foc
6074	T-25/12171A	PACKING, 60100V-10	Nos	4	4					Foc
6075	T-25/12172	ROUND RUBBER PACKING 60100V-11	Nos	2	2					Foc
6076	T-25/12172A	RING TYPE FLANGE GASKET, 60100-12	Nos	1	1					Foc
6077	T-25/12173	RING TYPE FLANGE GASKET, 60100-13	Nos	1	1					Foc
6078	T-25/12173A	RING TYPE FLANGE GASKET, 60100-14	Nos	3	3					Foc
6079	T-25/12174	PACKING, 60100V-15	Nos	8	8					Foc
6080	T-25/12174A	PACKING, 60100V-16	Nos	8	8					Foc
6081	T-25/12175	O RING , 60100V-17	Nos	2	2					Foc
6082	T-25/12175A	O RING TYPE FLANGE GASKET , 60100V-18	Nos	2	2					Foc
6083	T-25/12176	ELEMENT , 60100V-19	Nos	2	2					Foc
6084	T-25/12176A	O RING , 60100V-20	Nos	2	2					Foc
6085	T-25/12177	BACK UP RING , 60100V-21	Nos	2	2					Foc
6086	T-25/12178	COUPLING BUSH , 60100V-23	Nos	8	8					Foc
6087	T-25/12178A	FELT RING , 60100V-24	Nos	1	1					Foc
6088	T-25/12179	RUBBER PACKING , 60100V-25	Nos	1	1					Foc
6089	T-25/12179A	SHEET PACKING , 60100V-26	Nos	3	3					Foc
6090	T-25/12180	PACKING , 60100V-27	Nos	1	1					Foc
6091	T-25/12181	COUPLING BRUSH , 60100V-29	Nos	8	8					Foc
6092	T-25/12181A	RUBBER PACKING , 60100V-30	Nos	1	1					Foc
6093	T-25/12182	FELT RING , 60100V-31	Nos	1	1					Foc
6094	T-25/12182A	LOCK WASHER , 60100V-32	Nos	1	1					Foc
6095	T-25/12183	SHEET PACKING , 60100V-33	Nos	3	3					Foc
6096	T-25/12183A	PACKING , 60100V-34	Nos	1	1					Foc

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6097	T-25/12184	O RING , 60100V-35	Nos	2	2					Foc
6098	T-25/12184A	O RING , 60100V-36	Nos	1	1					Foc
6099	T-25/12185	RING TYPE FLANGE GASKET , 60100V-37	Nos	4	4					Foc
6100	T-25/12185A	RING TYPE FLANGE GASKET , 60100V-38	Nos	4	4					Foc
6101	T-25/12186	RING GASKET, 60100V-39	Nos	2	2					Foc
6102	T-25/12187	SPECIAL COATING, 2007-2	Nos	5	5					Foc
6103	T-25/12187A	SEAL COMPOUND, 2007-3	Nos	4	4					Foc
6104	T-25/12188A	SEAL COMPOUND, 2007-5	Nos	2	2					Foc
6105	T-25/12190	SPONGE PIECE, 2007-9	Nos	2	2					Foc
6106	T-25/12190A	BRUSH '2007-10	Nos	90	90					Foc
6107	T-25/12191A	VINYLE HOSE' 2007-12	Nos	10	10					Foc
6108	T-25/12193A	WELDING ROD' 2007-16	Nos	1	1					Foc
6109	T-25/12194	WELDING ROD' 2007-17	Nos	5	5					Foc
6110	T-25/12194A	WELDING ROD' 2007-18	Nos	10	10					Foc
6111	T-25/12195	BRUSH' 2007-20	Nos	6	6					Foc
6112	T-25/12196A	Dust Protection Mask	Nos	2	2					
6113	T-25/12197	RUBBER GLOVE' 2007-24	Nos	1	1					Foc
6114	T-25/12200A	CHAIN 3mm '2007-31	Nos	80	80					Foc
6115	T-26/12203A	GRIND STONE ZONE- 37	Nos	6	6					Foc
6116	T-26/12205A	DIAGONAL CUTTER, Z007-41	Nos	1	1					Foc
6117	T-26/12206A	MICRO METER, 'Z007-43	Nos	1	1					Foc
6118	T-26/12207	SCLAE 'Z007-44	Nos	3	3					Foc
6119	T-26/12207A	SCLAE 'Z007-45	Nos	1	1					Foc
6120	T-26/12208A	STRAIGHT EDGE, 'Z007-47	Nos	2	2					Foc
6121	T-26/12214	DIES 'Z007-58	Nos	1	1					Foc
6122	T-26/12214A	DIES 'Z007-59	Nos	1	1					Foc
6123	T-26/12215	DIES 'Z007-60	Nos	1	1					Foc
6124	T-26/12215A	DIES 'Z007-61	Nos	1	1					Foc
6125	T-26/12216	DIES 'Z007-62	Nos	1	1					Foc
6126	T-26/12216A	DIES 'Z007-63	Nos	1	1					Foc
6127	T-26/12217	DIES 'Z007-64	Nos	1	1					Foc
6128	T-26/12217A	DIES 'Z007-65	Nos	1	1					Foc

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6129	T-26/12218	DIES 'Z007-66	Nos	1	1					Foc
6130	T-26/12218A	DIES 'Z007-67	Nos	1	1					Foc
6131	T-26/12220	SCRAPPER, 'Z007-70	Nos	1	1					Foc
6132	T-26/12220A	HAMMER, HEAD 'Z007-71	Nos	2	2					Foc
6133	T-26/12221	SPANNER, 10 'Z007-72	Nos	2	2					Foc
6134	T-26/12221A	SPANNER-13 'Z007-73	Nos	2	2					Foc
6135	T-26/12224A	SPANNER-41 'Z007-79	Nos	1	1					Foc
6136	T-26/12225	SPANNER-46 'Z007-80	Nos	2	2					Foc
6137	T-26/12225A	SPANNER-50 'Z007-81	Nos	2	2					Foc
6138	T-26/12226	SPANNER-55 'Z007-82	Nos	3	3					Foc
6139	T-26/12226A	AIR DRILL 'Z007-83	Nos	2	2					Foc
6140	T-26/12227	AIR DRILL 'Z007-84	Nos	1	1					Foc
6141	T-26/12227A	THERMO STICK, 'Z007-85	Nos	2	2					Foc
6142	T-26/12228	THERMO STICK, 'Z007-86	Nos	2	2					Foc
6143	T-26/12228A	THERMO STICK, 'Z007-87	Nos	2	2					Foc
6144	T-26/12229	THERMO STICK, 'Z007-88	Nos	2	2					Foc
6145	T-26/12232	COPPER BAR, 30X300 'Z007-94	Nos	1	1					Foc
6146	T-26/12232A	COPPER BAR, 30X1000 'Z007-95	Nos	3	3					Foc
6147	T-26/12233	COPPER' Z007-97	Nos	18	18					Foc
6148	T-26/12233A	TAP HOLDER 'Z007-98	Nos	1	1					Foc
6149	T-26/12234A	HANDLE FOR DIES 'Z007-100	Nos	1	1					Foc
6150	T-26/12235	HANDLE FOR DIES 'Z007-101	Nos	1	1					Foc
6151	T-26/12235A	HANDLE FOR DIES 'Z007-102	Nos	1	1					Foc
6152	T-26/12236	HANDLE FOR DIES 'Z007-103	Nos	1	1					Foc
6153	T-26/12236A	ASBOSTOS SHEET G914-1	Nos	2	2					Foc
6154	T-26/12238A	SUBMERGIBLE MOTOR PUMP, 0.75KW, 200V, B12-6	Nos	1	1					Foc
6155	T-26/12239	FLOW METER, B12-9	Nos	1	1					Foc
6156	T-26/12239A	MIST SEPARATOR, B12-10	Nos	1	1					Foc
6157	T-26/12241A	Pressure Guage B-12-14	Nos	10	10					
6158	T-26/12242	Pressure Guage B-12-15	Nos	6	6					
6159	T-26/12243	CHEMICAL TANK, B12-17	Nos	4	4					Foc
6160	T-26/12244	OUTER BOARD FOR RECOVERY TANK, B-12-19	Nos	25	25					Foc

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1	2	3	4	5	6	7	8	10	11	12
6161	T-26/12246A	OUTER BOARD CASING RECOVERY TANK, B-12-24	Nos	1	1					Foc
6162	T-26/12247	AIR DEFUSER RECOVERY TANK, B-12-25	Nos	1	1					Foc
6163	T-26/12247A	GLOVE VALVE, B12-26	Nos	10	10					Foc
6164	T-26/12248	GLOVE VALVE, B12-27	Nos	1	1					Foc
6165	T-26/12249A	CHECK VALVE, B12-30	Nos	1	1					Foc
6166	T-26/12250	FOOT VALVE, B12-31	Nos	1	1					Foc
6167	T-26/12251	CHEMICAL BUNDLES HOSE, 'B-12-33	Nos	30	30					Foc
6168	T-26/12252	CHEMICAL BUNDLES HOSE, 'B-12-35	Nos	20	20					Foc
6169	T-26/12252A	RUBBER HOSE, 'B-12-36	Nos	2	2					Foc
6170	T-26/12253	RUBBER HOSE, 'B-12-37	Nos	1	1					Foc
6171	T-26/12254	VINYL HOSE 'B-12-39	Nos	1	1					Foc
6172	T-26/12254A	CROSS WITH FLANGE, 'B-12-40	Nos	2	2					Foc
6173	T-26/12255A	TEE WITH FLANGE, 'B-12-42	Nos	16	16					Foc
6174	T-26/12256	TEE WITH FLANGE, 'B-12-43	Nos	1	1					Foc
6175	T-26/12257	ELBOW WITH FLANGE, 'B-12-45	Nos	12	12					Foc
6176	T-26/12257A	ELBOW WITH FLANGE, 'B-12-46	Nos	2	2					Foc
6177	T-26/12258	ELBOW WITH FLANGE, 'B-12-47	Nos	5	5					Foc
6178	T-26/12260	CONNECTING PIPE WITH FLANGE, 'B-12-51	Nos	5	5					Foc
6179	T-26/12260A	CONNECTING PIPE WITH FLANGE, 'B-12-52	Nos	2	2					Foc
6180	T-26/12261	FLANGE WITH SHORT PIPE 'B-12-53	Nos	5	5					Foc
6181	T-26/12261	HEADER WITH FLANGE 'B-12-54	Nos	1	1					Foc
6182	T-26/12262	LONG NIPPLE 'B-12-55	Nos	8	8					Foc
6183	T-26/12262A	LONG NIPPLE 'B-12-56	Nos	12	12					Foc
6184	T-26/12263	LONG NIPPLE 'B-12-57	Nos	15	15					Foc
6185	T-26/12263A	SCREW TYPE SOCKET 'B-12-58	Nos	4	4					Foc
6186	T-26/12264	SCREW TYPE SOCKET 'B-12-59	Nos	10	10					Foc
6187	T-26/12264A	SCREW TYPE SOCKET 'B-12-60	Nos	10	10					Foc
6188	T-26/12265	BOLT AND NUT 'B-12-61	Nos	1560/800	1560/800					Foc
6189	T-26/12265A	BOLT AND NUT 'B-12-62	Nos	39	39					Foc
6190	T-26/12267	GROM TAPE 'B-12-65	Nos	1	1					Foc
6191	T-26/12268	FACE PROTECTOR 'B-12-67	Nos	5	5					Foc
6192	T-26/12269A	BOLT & NUT FOR RECOVERY TANK 'B-12-70	Nos	180	180					Foc

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6193	T-26/12270	TEST PIECE 'B-12-71	Nos	10	10					Foc
6194	T-26/12270A	MOTOR FOR AUX: OIL PUMP FOR TURBINE 132KW/2P, F(	Nos	1	1					Foc
6195	T-26/12271	MOTOR FOR TURNING GEAR OIL PUMP FOR TURBINE 5	Nos	1	1					Foc
6196	T-26/12273	PACKING, G01R-033	Nos	4	4					Foc
6197	T-26/12273A	PACKING, G01R-034	Nos	4	4					Foc
6198	T-26/12274	PACKING, G01M-032	Nos	2	2					Foc
6199	T-26/12274A	PACKING, G01M-044	Nos	2	2					Foc
6200	T-26/12275	PACKING, G01M-048	Nos	2	2					Foc
6201	T-26/12275A	RUBBER 'PACKING, G01M-054	Nos	2	2					Foc
6202	T-26/12276	DOUBLE HOLE PLATE WASHER, G01M-059	Nos	3	3					Foc
6203	T-26/12276A	O RING G01M-063	Nos	2	2					Foc
6204	T-26/12277	INSULATION PAD 'G01M-065	Nos	2	2					Foc
6205	T-26/12277A	INSULATION PACKING 'G01M-055	Nos	2	2					Foc
6206	T-26/12278	INSULATION PACKING 'G01M-056	Nos	2	2					Foc
6207	T-26/12278A	DOUBLE HOLE PLATE WASHER 'G01M-057	Nos	8	8					Foc
6208	T-26/12279	DOUBLE HOLE PLATE WASHER 'G01M-064	Nos	4	4					Foc
6209	T-26/12280	GLAND PACKING, E07M-183	Nos	1	1					Foc
6210	T-26/12280A	O RING , E07M-184	Nos	1	1					Foc
6211	T-26/12281A	GLAND PACKING, E07M-192	Nos	1	1					Foc
6212	T-26/12282	O RING , E07M-193	Nos	1	1					Foc
6213	T-26/12282A	GLAND PACKING, E07M-174	Nos	1	1					Foc
6214	T-26/12283	O RING , E07M-175	Nos	1	1					Foc
6215	T-26/12284	OIL SEAL, E04M-093	Nos	1	1					Foc
6216	T-26/12284A	Bearing (A) E05M-005	Nos	1	1					
6217	T-26/12285A	GASKET, D13M-003	Nos	1	1					Foc
6218	T-26/12286	OIL SEAL, D13M-007	Nos	1	1					Foc
6219	T-26/12286A	BALL BEARING, E04M-001	Nos	1	1					Foc
6220	T-26/12287	BALL BEARING, E04M-002 7310	Nos	1	1					Foc
6221	T-26/12287A	S.C.R, (SILICON)	Nos	1	1					Foc
6222	T-26/12288	THREE PHASE DRIVER (PRINTED CARD)	Nos	1	1					Foc
6223	T-26/12288A	GASKET, D01R-001	Nos	2	2					Foc
6224	T-26/12289A	GASKET, D09R-028	Nos	9	9					Foc

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6225	T-26/12290	GASKET, D09R-029	Nos	9	9					Foc
6226	T-26/12290A	GLAND PACKING, D17M-747	Nos	8	8					Foc
6227	T-26/12291	Seleve Bearing Top Cosing E04M-006	Nos	2	2					
6228	T-26/12292A	BEARING FOR FILTER EW, E04M-300	Nos	3	3					Foc
6229	T-26/12294A	BEARING FOR COGULANT AID INJECTION PUMP, E04M	Nos	1	1					Foc
6230	T-26/12296	SLEEVE BEARING INT: E05M-001	Nos	6	6					Foc
6231	T-26/12296A	SLEEVE BEARING TOP CAASING, E05M-002	Nos	2	2					Foc
6232	T-26/12297	SLEEVE BEARING CASING E05M-003	Nos	3	3					Foc
6233	T-26/12297A	PACKING, E06M-012	Nos	8	8					Foc
6234	T-26/12298A	CHART, E14M-190	Nos	12	12					Foc
6235	T-26/12299	OIL SEAL LIFTCYL E18M-003	Nos	2	2					Foc
6236	T-26/12299A	OIL SEAL CYL E18M-004	Nos	2	2					Foc
6237	T-26/12300	OIL SEAL P.S E18M-005	Nos	1	1					Foc
6238	T-26/12300A	O RING LIFT CYL, E18M-006	Nos	2	2					Foc
6239	T-27/12301	O RING LIFT CYL, E18M-010	Nos	2	2					Foc
6240	T-27/12301A	O RING POWER STEARING, E18M-011	Nos	1	1					Foc
6241	T-27/12302	SUPPORTING INSULATOR, G23M-003-1	Nos	4	4					Foc
6242	T-27/12302A	SUPPORTING INSULATOR, G23M-004-1	Nos	4	4					Foc
6243	T-27/12303	CONDUCTING SOLDER G23M-004-31	Nos	5	5					Foc
6244	T-27/12305	PACKING, J023-006	Nos	2	2					Foc
6245	T-27/12305A	FLOW SWITCH FOR RECTIFIER FOR HYDROGEN GAS SY	Nos	1	1					Foc
6246	T-27/12306	MOTOR COMPLETE FOR HOUSE BOILER FEED WATER I	Nos	1	1					Foc
6247	T-27/12306A	FILTER ELEMENT FOR R.O TRANSFER LINE.	Nos	1	1					Foc
6248	T-27/12307	CASING COVER WITH BUSHING	Nos	3	3					Foc
6249	T-27/12307A	SPIRAL WOUND GASKET	Nos	3	3					Foc
6250	T-27/12308	JACKING PLATE.	Nos	1	1					Foc
6251	T-27/12308A	THRUST SHOE, D09M-004	Nos	10	10					Foc
6252	T-27/12309	THRUST SHOE, D09M-005	Nos	2	2					Foc
6253	T-27/12311	THRUST COLLER, D09M-028	Nos	1	1					Foc
6254	T-27/12317A	O RING, D09M-026	Nos	4	4					Foc
6255	T-27/12319	FLOAT UNIT	Set	2	2					Foc
6256	T-27/12320	BOLT & NUT 8PCS/SET, M-16X55 SS 4 (ZN)	Nos	16	16					Foc

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1	2	3	4	5	6	7	8	10	11	12
6257	T-27/12320A	GASKET 80A, JIS 10K-NR-HOSE FOR 80A-30m	Nos	2	2					Foc
6258	T-27/12321	HOSE FLOAT WITH ROPE 15 PCS/SET DIA 196X288	Nos	29	29					Foc
6259	T-27/12321A	ROPE, DIA= 12X25M	Nos	8	8					Foc
6260	T-27/12322	SHACKLE, 4PCS/SET	Nos	8	8					Foc
6261	T-27/12322A	LONG BOLT & 4 NUT WITH WASHER (SPRING PLAN) 4P(	Nos	8	8					Foc
6262	T-27/12323	IMPELLER FOR SPARE	Nos	2	2					Foc
6263	T-27/12323A	INSULATION LINER, VS-90XY-7	Nos	2	2					Foc
6264	T-27/12324	INSULATION LINER, VS-90XY-8	Nos	2	2					Foc
6265	T-27/12324A	INSULATION RING, N24-rS90XX-9	Nos	14	14					Foc
6266	T-27/12325	PIPE, 270/242X48 ys 90xy-10	Nos	14	14					Foc
6267	T-27/12325A	INSULATION WASHER, ys 90xy-12	Nos	2	2					Foc
6268	T-27/12326	INSULATION RING, ys 90xy-13	Nos	2	2					Foc
6269	T-27/12326A	TAPET PIN, ys 90 xy-15	Nos	4	4					Foc
6270	T-27/12327	HETISERT, ys 90 xx-16	Nos	4	4					Foc
6271	T-27/12327A	SUPPORT, ys 90 xy-18	Nos	4	4					Foc
6272	T-27/12328	Insulation Liner Ys90xY-43	Nos	4	4					
6273	T-27/12328A	Insulation Liner Ys90xY-44	Nos	4	4					
6274	T-27/12329	INSULATION RING- ys 90 xy-45	Nos	32	32					Foc
6275	T-27/12329A	PIPE, 198/16 xy -46	Nos	32	32					Foc
6276	T-27/12330	PACKING, ys 90 XY-51	Nos	4	4					Foc
6277	T-27/12330A	INSULATION RING- 12 ys 90 xy-55	Nos	48	48					Foc
6278	T-27/12331	PIPE, 15 8/22 xy -56	Nos	48	48					Foc
6279	T-27/12331A	PIPE, 27 8/24 ys 90 xy -58	Nos	16	16					Foc
6280	T-27/12332	INSULATION WASHER, ys90xy-59	Nos	8	8					Foc
6281	T-27/12334	INSULATION RING- ys 90 xy-70	Nos	4	4					Foc
6282	T-27/12334A	PIPE, 27 8/24 ys 90 xy -74	Nos	16	16					Foc
6283	T-27/12335	INSULATION WASHER, ys90xy-75	Nos	8	8					Foc
6284	T-27/12335A	INSULATION WASHER, ys90xy-76	Nos	4	4					Foc
6285	T-27/12336	INSULATION PLATE, ys90xy-78	Nos	4	4					Foc
6286	T-27/12336A	PIPE, 12 8/10 ys 90 xy -101	Nos	4	4					Foc
6287	T-27/12337	INSULATION RING- 10 ys 90 xy-102	Nos	8	8					Foc
6288	T-27/12337A	PIPE, 15 8/12 2X57 ys 90 xy -106	Nos	4	4					Foc

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6289	T-27/12338	INSULATION RING- 12 ys 90 xy-107	Nos	8	8					Foc
6290	T-27/12338A	INSULATION RING- 30 ys 90 xy-111	Nos	4	4					Foc
6291	T-27/12339	PIPE, 33 8/30 2X52 ys 90 xy -112	Nos	4	4					Foc
6292	T-27/12339A	INSULATION TAPER PIN WITH SCR-113	Nos	2	2					Foc
6293	T-27/12340	INSULATION PLATE WITH SCR-116	Nos	2	2					Foc
6294	T-27/12340A	INSULATION WITH SCR-117	Nos	2	2					Foc
6295	T-27/12341	INSULATION RING 16 WITH SCR-118	Nos	2	2					Foc
6296	T-27/12341A	INSULATION RING 10ys 90 xy-129	Nos	4	4					Foc
6297	T-27/12342	PIPE, 12 18/10.2X48ys90xy-130	Nos	4	4					Foc
6298	T-27/12342A	PIPE, 158/12.2X133ys90xy-169	Nos	8	8					Foc
6299	T-27/12343	PIPE, 158/12.2X98 ys 90 xy-171	Nos	4	4					Foc
6300	T-27/12343A	WEDGE, ys90Xy-250	Nos	10	10					Foc
6301	T-27/12344	WEDGE, ys90Xy-251	Nos	10	10					Foc
6302	T-27/12344A	WEDGE, ys90Xy-252	Nos	10	10					Foc
6303	T-27/12345	WEDGE, ys90Xy-253	Nos	10	10					Foc
6304	T-27/12345A	WEDGE, ys90Xy-254	Nos	10	10					Foc
6305	T-27/12346	WEDGE, ys90Xy-255	Nos	10	10					Foc
6306	T-27/12346A	WEDGE, ys90Xy-256	Nos	10	10					Foc
6307	T-27/12347	WEDGE, ys90Xy-257	Nos	10	10					Foc
6308	T-27/12347A	WEDGE, ys90Xy-258	Nos	10	10					Foc
6309	T-27/12348	WEDGE, ys90Xy-259	Nos	10	10					Foc
6310	T-27/12348A	WEDGE, ys90Xy-260	Nos	10	10					Foc
6311	T-27/12349	WEDGE, ys90Xy-261	Nos	10	10					Foc
6312	T-27/12349A	WEDGE, ys90Xy-262	Nos	10	10					Foc
6313	T-27/12350	WEDGE, ys90Xy-263	Nos	10	10					Foc
6314	T-27/12350A	WEDGE, ys90Xy-264	Nos	10	10					Foc
6315	T-27/12351	WEDGE, ys90Xy-265	Nos	10	10					Foc
6316	T-27/12351A	WEDGE, ys90Xy-266	Nos	10	10					Foc
6317	T-27/12352	WEDGE, ys90Xy-267	Nos	10	10					Foc
6318	T-27/12352A	WEDGE, ys90Xy-268	Nos	10	10					Foc
6319	T-27/12353	WEDGE, ys90Xy-269	Nos	10	10					Foc
6320	T-27/12353A	WEDGE, ys90Xy-270	Nos	10	10					Foc

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6321	T-27/12354	WEDGE, ys90Xy-271	Nos	10	10					Foc
6322	T-27/12354A	WEDGE, ys90Xy-272	Nos	10	10					Foc
6323	T-27/12355	LINER-xs90X273	Nos	20	20					Foc
6324	T-27/12355A	INSULATION UNDER WEDGE YS 90 XY-274	Nos	14	14					Foc
6325	T-27/12356	INSULATION UNDER WEDGE YS 90 XY-275	Nos	168	168					Foc
6326	T-27/12356A	INSULATION UNDER WEDGE YS 90 XY-276	Nos	28	28					Foc
6327	T-27/12357	INSULATION UNDER WEDGE YS 90 XY-277	Nos	84	84					Foc
6328	T-27/12357A	INSULATION UNDER WEDGE YS 90 XY-278	Nos	28	28					Foc
6329	T-27/12358	INSULATION UNDER WEDGE YS 90 XY-279	Nos	14	14					Foc
6330	T-27/12358A	INSULATION UNDER WEDGE YS 90 XY-280	Nos	168	168					Foc
6331	T-27/12359	INSULATION UNDER WEDGE YS 90 XY-281	Nos	28	28					Foc
6332	T-27/12359A	INSULATION UNDER WEDGE YS 90 XY-282	Nos	84	84					Foc
6333	T-27/12360	INSULATION UNDER WEDGE YS 90 XY-283	Nos	28	28					Foc
6334	T-27/12360A	INSULATION UNDER WEDGE YS 90 XY-284	Nos	14	14					Foc
6335	T-27/12361	INSULATION UNDER WEDGE YS 90 XY-285	Nos	168	168					Foc
6336	T-27/12361A	INSULATION UNDER WEDGE YS 90 XY-286	Nos	28	28					Foc
6337	T-27/12362	INSULATION UNDER WEDGE YS 90 XY-287	Nos	84	84					Foc
6338	T-27/12362A	INSULATION UNDER WEDGE YS 90 XY-288	Nos	28	28					Foc
6339	T-27/12363	INSULATION UNDER WEDGE YS 90 XY-289	Nos	14	14					Foc
6340	T-27/12363A	INSULATION UNDER WEDGE YS 90 XY-290	Nos	168	168					Foc
6341	T-27/12364	INSULATION UNDER WEDGE YS 90 XY-291	Nos	28	28					Foc
6342	T-27/12364A	INSULATION UNDER WEDGE YS 90 XY-292	Nos	84	84					Foc
6343	T-27/12365	INSULATION UNDER WEDGE YS 90 XY-293	Nos	28	28					Foc
6344	T-27/12365A	INSULATION UNDER WEDGE YS 90 XY-294	Nos	14	14					Foc
6345	T-27/12366	INSULATION UNDER WEDGE YS 90 XY-295	Nos	168	168					Foc
6346	T-27/12366A	INSULATION UNDER WEDGE YS 90 XY-296	Nos	28	28					Foc
6347	T-27/12367	INSULATION UNDER WEDGE YS 90 XY-297	Nos	84	84					Foc
6348	T-27/12367A	INSULATION UNDER WEDGE YS 90 XY-298	Nos	28	28					Foc
6349	T-27/12368	SPRING LINER, YS90 XY-299	Nos	24	24					Foc
6350	T-27/12368A	SPRING LINER, YS90 XY-300	Nos	288	288					Foc
6351	T-27/12369	SPRING LINER, YS90 XY-301	Nos	48	48					Foc
6352	T-27/12369A	SPRING LINER, YS90 XY-302	Nos	144	144					Foc

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6353	T-27/12370	SPRING LINER, YS90 XY-303	Nos	48	48					Foc
6354	T-27/12370A	SPACER, YS90 XY-304	Nos	96	96					Foc
6355	T-27/12371	WEDGE, YS90 XY-313	Nos	38	38					Foc
6356	T-27/12371A	WEDGE, YS90 XY-314	Nos	37	37					Foc
6357	T-27/12372	INSULATION UNDER WEDGE' YS90 XY-315	Nos	136	136					Foc
6358	T-27/12372A	SPARE BOX, 'YS90 XY-316	Nos	1	1					Foc
6359	T-27/12373	COIL SUPPORT BOARD' YS90 XY-318	Nos	3	3					Foc
6360	T-27/12373A	ATTACHEMENT (2) 'YS90 XY-319	Nos	1	1					Foc
6361	T-27/12374	TIGH SEAL (5LB)'YS90 XY-01	Nos	5	5					Foc
6362	T-27/12374A	PACKING ' YS90 XY-20	Nos	2	2					Foc
6363	T-27/12375	PACKING ' YS90 XY-21	Nos	4	4					Foc
6364	T-27/12376	O RING, P 170N YS90 XY-26	Nos	4	4					Foc
6365	T-27/12376A	PACKING CCB ' YS90 XY-38	Nos	2	2					Foc
6366	T-27/12377	PACKING YS90 XY-42	Nos	2	2					Foc
6367	T-27/12377A	PACKING YS90 XY-52	Nos	8	8					Foc
6368	T-27/12378A	O RING, YS90 XY-71	Nos	4	4					Foc
6369	T-27/12379A	O RING, P235 -3- YS90 XY-09	Nos	2	2					Foc
6370	T-27/12380	PACKING , CLB YS90 XY-91	Nos	96	96					Foc
6371	T-27/12380A	PACKING , CLB YS90 XY-92	Nos	4	4					Foc
6372	T-27/12381	PACKING , CLB YS90 XY-93	Nos	4	4					Foc
6373	T-27/12381A	PACKING , CLB YS90 XY-94	Nos	4	4					Foc
6374	T-27/12382	PACKING , CLB YS90 XY-95	Nos	4	4					Foc
6375	T-27/12382A	PACKING , CLB YS90 XY-96	Nos	4	4					Foc
6376	T-27/12383	PACKING , CLB YS90 XY-97	Nos	16	16					Foc
6377	T-27/12383A	PACKING , CLB YS90 XY-98	Nos	4	4					Foc
6378	T-27/12384	PACKING , CLB YS90 XY-99	Nos	4	4					Foc
6379	T-27/12384A	PACKING ,FS YS90 XY-99A	Nos	4	4					Foc
6380	T-27/12385	PACKING , FS YS90 XY-99B	Nos	2	2					Foc
6381	T-27/12385A	PACKING , FS YS90 XY-99C	Nos	2	2					Foc
6382	T-27/12386	PACKING , FC YS90 XY-990	Nos	2	2					Foc
6383	T-27/12386A	O RING CLA- YS90XY-100	Nos	1	1					Foc
6384	T-27/12387	FLAT TYPE FLANGE GASKET 10K-20-YS90X-103	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6385	T-27/12387A	GASKET, YS90 YX-105	Nos	2	2					Foc
6386	T-27/12388	FLAT TYPE FLANGE GASKET 10K-65-YS90X-108	Nos	2	2					Foc
6387	T-27/12388A	GASKET, YS90 YX-110	Nos	2	2					Foc
6388	T-27/12389	PACKING , YS90 XY-120	Nos	1	1					Foc
6389	T-27/12389A	PACKING , YS90 XY-124	Nos	1	1					Foc
6390	T-27/12390	PACKING , YS90 XY-126	Nos	1	1					Foc
6391	T-27/12390A	PACKING , YS90 XY-127	Nos	4	4					Foc
6392	T-27/12391	FILTER, YS90 XY-131	Nos	1	1					Foc
6393	T-27/12391A	CUSHION, 12,20X2720, YS90 XY-132	Nos	2	2					Foc
6394	T-27/12392	CUSHION, 12,20X2580, YS90 XY-133	Nos	1	1					Foc
6395	T-27/12392A	CUSHION, 12,20X292, YS90 XY-134	Nos	2	2					Foc
6396	T-27/12393	CUSHION, 12,20X412, YS90 XY-135	Nos	2	2					Foc
6397	T-27/12393A	PACKING , YS90 XY-136	Nos	1	1					Foc
6398	T-27/12394	PACKING , YS90 XY-137	Nos	2	2					Foc
6399	T-27/12394A	PACKING , YS90 XY-138	Nos	1	1					Foc
6400	T-27/12396	CUSHION, 30X50X1800, YS90 XY-141	Nos	1	1					Foc
6401	T-27/12396A	CUSHION, 30X50X1000, YS90 XY-142	Nos	2	2					Foc
6402	T-27/12397	CUSHION, 30X50X1700, YS90 XY-143	Nos	1	1					Foc
6403	T-27/12397A	PACKING ,CLC YS90 XY-144	Nos	1	1					Foc
6404	T-27/12398	PACKING ,CLC YS90 XY-145	Nos	2	2					Foc
6405	T-27/12398A	PACKING ,CLC YS90 XY-146	Nos	2	2					Foc
6406	T-27/12399	PACKING ,CLC YS90 XY-147	Nos	1	1					Foc
6407	T-27/12399A	PACKING ,CLC YS90 XY-148	Nos	2	2					Foc
6408	T-27/12400	PACKING ,CLC YS90 XY-149	Nos	4	4					Foc
6409	T-27/12400A	AIR FILTER, YS90 XY-150	Nos	16	16					Foc
6410	T-28/12401	PACKING, YS90 XY-151	Nos	8	8					Foc
6411	T-28/12401A	PACKING, YS90 XY-152	Nos	8	8					Foc
6412	T-28/12402	PACKING, YS90 XY-153	Nos	2	2					Foc
6413	T-28/12402A	PACKING, YS90 XY-154	Nos	2	2					Foc
6414	T-28/12403	PACKING, YS90 XY-160	Nos	2	2					Foc
6415	T-28/12403A	PACKING, YS90 XY-161	Nos	8	8					Foc
6416	T-28/12404	PACKING, YS90 XY-162	Nos	4	4					Foc

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6417	T-28/12404A	PACKING, YS90 XY-163	Nos	4	4					Foc
6418	T-28/12405	PACKING, YS90 XY-164	Nos	4	4					Foc
6419	T-28/12405A	PACKING, YS90 XY-165	Nos	4	4					Foc
6420	T-28/12406	PACKING, YS90 XY-173	Nos	2	2					Foc
6421	T-28/12409	O RING P175N YS90 XY-189	Nos	1	1					Foc
6422	T-28/12409A	ROUND RUBBER PACKING, YS90 XY-190	Nos	1	1					Foc
6423	T-28/12410	O RING P135N YS90 XY-191	Nos	3	3					Foc
6424	T-28/12411A	O RING P45N YS90 XY-194	Nos	2	2					Foc
6425	T-28/12412	O RING P50 A-N YS90 XY-195	Nos	5	5					Foc
6426	T-28/12412A	O RING P60N YS90 XY-196	Nos	1	1					Foc
6427	T-28/12413	ROUND RUBBER PACKING, YS90 XY-198	Nos	1	1					Foc
6428	T-28/12414	O RING P50 A.N YS90 XY-200	Nos	4	4					Foc
6429	T-28/12414A	O RING P80 N YS90 XY-201	Nos	1	1					Foc
6430	T-28/12415	O RING P110N YS90 XY-202	Nos	1	1					Foc
6431	T-28/12415A	O RING P45N YS90 XY-203	Nos	4	4					Foc
6432	T-28/12416A	O RING - YS90 XY-205	Nos	2	2					Foc
6433	T-28/12417A	O RING - YS90 XY-207	Nos	4	4					Foc
6434	T-28/12418	O RING - YS90 XY-208	Nos	2	2					Foc
6435	T-28/12419A	MECHANICAL SEAL - YS90 XY-211	Nos	2	2					Foc
6436	T-28/12420	DUST SEAL - YS90 XY-212	Nos	2	2					Foc
6437	T-28/12420A	GASKET - YS90 XY-213	Nos	2	2					Foc
6438	T-28/12421	GASKET - YS90 XY-214	Nos	2	2					Foc
6439	T-28/12421A	GASKET - YS90 XY-215	Nos	2	2					Foc
6440	T-28/12422	GASKET - YS90 XY-216	Nos	2	2					Foc
6441	T-28/12422A	GASKET - YS90 XY-217	Nos	2	2					Foc
6442	T-28/12423	BEARING BUSH, YS90 XY-221	Nos	2	2					Foc
6443	T-28/12423A	BEARING SEAT, YS90 XY-222	Nos	2	2					Foc
6444	T-28/12424	BALANCE PISTON, YS90 XY-223	Nos	4	4					Foc
6445	T-28/12424A	THUST SEAT, YS90 XY-224	Nos	4	4					Foc
6446	T-28/12425A	BUSH	Nos	2	2					Foc
6447	T-28/12426	BALL BEARING, 6205	Nos	1	1					Foc
6448	T-28/12426A	BALL BEARING, YS90 XY-228	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6449	T-28/12427	OIL SEAL	Nos	4	4					Foc
6450	T-28/12427A	DIAPHRAGM, 209	Nos	2	2					Foc
6451	T-28/12428	DIAPHRAGM,	Nos	2	2					Foc
6452	T-28/12428A	DIAPHRAGM,	Nos	2	2					Foc
6453	T-28/12429	DIAPHRAGM,	Nos	1	1					Foc
6454	T-28/12429A	PACKING,	Nos	4	4					Foc
6455	T-28/12431	O RING	Nos	1	1					Foc
6456	T-28/12432	O RING	Nos	1	1					Foc
6457	T-28/12432A	GASKET, YS90 XY-243	Nos	2	2					Foc
6458	T-28/12433	GASKET, YS90 XY-244	Nos	2	2					Foc
6459	T-28/12433A	PACKING, YS90 XY-245	Nos	2	2					Foc
6460	T-28/12434	PACKING, YS90 XY-248	Nos	2	2					Foc
6461	T-28/12434A	PACKING, YS90 XY-249	Nos	2	2					Foc
6462	T-28/12435	DOUBLE WASHER, YS90 XY-2	Nos	12	12					Foc
6463	T-28/12436	WASHER, M-36 YS90 XY-4	Nos	20	20					Foc
6464	T-28/12436A	WASHER, M-30 YS90 XY-5	Nos	28	28					Foc
6465	T-28/12437	POWEL WASHER, M-36 YS90 XY-6	Nos	4	4					Foc
6466	T-28/12437A	PACKING, M-36 YS90 XY-11	Nos	14	14					Foc
6467	T-28/12438	PACKING, M-36 YS90 XY-17	Nos	4	4					Foc
6468	T-28/12438A	WASHER, M26-19	Nos	8	8					Foc
6469	T-28/12439	PACKING, M36 -23	Nos	2	2					Foc
6470	T-28/12439A	PACKING, M30 -24	Nos	14	14					Foc
6471	T-28/12440	PACKING, M30 -25	Nos	2	2					Foc
6472	T-28/12440A	WASHER, M-20	Nos	32	32					Foc
6473	T-28/12441	SPRING LOCK WASHER-28	Nos	14	14					Foc
6474	T-28/12441A	PLAIN WASHER, 29	Nos	2	2					Foc
6475	T-28/12442	NIPPLE PF 3/8 YS90 XY-30	Nos	18	18					Foc
6476	T-28/12442A	DOUBLE WASHER	Nos	4	4					Foc
6477	T-28/12443	WASHER, M-20YS 90 X 30-32	Nos	8	8					Foc
6478	T-28/12443A	POWL WASHER, M-8 YS- 90XY-33	Nos	48	48					Foc
6479	T-28/12444	PACKING, YS90 XY -34	Nos	4	4					Foc
6480	T-28/12444A	SEAL STRIP, L-655, YS-35	Nos	4	4					Foc

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6481	T-28/12445	PACKING-50-36	Nos	2	2					Foc
6482	T-28/12445A	WASHER, M-10 37	Nos	6	6					Foc
6483	T-28/12446	WASHER, M-10 39	Nos	8	8					Foc
6484	T-28/12446A	SEAL STRIP, L 766 -40	Nos	36	36					Foc
6485	T-28/12447A	COMICAL SPRING WASHER -47	Nos	32	32					Foc
6486	T-28/12448	SEAL STRIP, L-680 48	Nos	4	4					Foc
6487	T-28/12448A	WASHER, M-8	Nos	32	32					Foc
6488	T-28/12449	SEAL STRIP, L-719 53	Nos	16	16					Foc
6489	T-28/12449A	SEAL STRIP, L-766 54	Nos	16	16					Foc
6490	T-28/12452B	WASHER, M-6 YS90 XY-77	Nos	8	8					Foc
6491	T-28/12454A	SCAFOLD SET SCREW, 79	Nos	8	8					Foc
6492	T-28/12455	WASHER M-20 80	Nos	76	76					Foc
6493	T-28/12455A	WASHER 81	Nos	4	4					Foc
6494	T-28/12456	WASHER 82	Nos	16	16					Foc
6495	T-28/12456A	WASHER 83	Nos	32	32					Foc
6496	T-28/12457	WASHER 84	Nos	8	8					Foc
6497	T-28/12457A	POWL WASHER 85	Nos	48	48					Foc
6498	T-28/12458	POWL WASHER 86	Nos	16	16					Foc
6499	T-28/12458A	WASHER, 87	Nos	8	8					Foc
6500	T-28/12459	WASHER, 88	Nos	8	8					Foc
6501	T-28/12459A	WASHER, 90	Nos	16	16					Foc
6502	T-28/12460	LINER, 104	Nos	1	1					Foc
6503	T-28/12460A	LINER, YS 90 XY 109	Nos	1	1					Foc
6504	T-28/12461	NUT, M-16 114	Nos	2	2					Foc
6505	T-28/12461A	PLAIN WASHER, M16-115	Nos	2	2					Foc
6506	T-28/12462	SEAL STRIP, 280-119	Nos	10	10					Foc
6507	T-28/12462A	POWL WASHER, M8-121	Nos	6	6					Foc
6508	T-28/12463	WASHER, M10- 122	Nos	8	8					Foc
6509	T-28/12463A	WASHER, M10- 123	Nos	2	2					Foc
6510	T-28/12464	WASHER, M10- 125	Nos	8	8					Foc
6511	T-28/12464A	POWL WASHER, M8- 128	Nos	4	4					Foc
6512	T-28/12465	WASHER, M10- 154	Nos	44	44					Foc

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6513	T-28/12465A	POWL WASHER, M10- 156	Nos	4	4					Foc
6514	T-28/12466	WASHER, M10- 157	Nos	26	26					Foc
6515	T-28/12466A	WASHER, M10- 158	Nos	8	8					Foc
6516	T-28/12467	POWL WASHER, M12- 159	Nos	6	6					Foc
6517	T-28/12469	WASHER, M12 170	Nos	8	8					Foc
6518	T-28/12469A	WASHER, M12 YS90 XY 172	Nos	4	4					Foc
6519	T-28/12470	WASHER, M6 174	Nos	8	8					Foc
6520	T-28/12470A	D/ WASHER, 175	Nos	8	8					Foc
6521	T-28/12471	WASHER, M30 176	Nos	4	4					Foc
6522	T-28/12471A	WASHER, M12 177	Nos	6	6					Foc
6523	T-28/12472	BEARING, 183	Nos	96	96					Foc
6524	T-28/12475	POWL WASHER, 197	Nos	3	3					Foc
6525	T-28/12475A	ROTOR 218	Nos	2	2					Foc
6526	T-28/12476	ROTOR 219	Nos	4	4					Foc
6527	T-28/12476A	SLEEVE 220	Nos	2	2					Foc
6528	T-28/12477A	BALL BEARING, 231	Nos	2	2					Foc
6529	T-28/12478	ROLLER, 232	Nos	2	2					Foc
6530	T-28/12478A	WASHER M10 YS90 XY 246	Nos	16	16					Foc
6531	T-28/12479	PULLER FOR WEEKER- 317	Nos	1	1					Foc
6532	T-28/12479A	CONNECTING ROD, YS90 XY-320	Nos	1	1					Foc
6533	T-28/12480	ATTACHRE (1) 321	Nos	1	1					Foc
6534	T-28/12480A	JACK---322	Nos	1	1					Foc
6535	T-28/12481	PRESS PLATE, 323	Nos	1	1					Foc
6536	T-28/12481A	PRESS PLATE, 324	Nos	1	1					Foc
6537	T-28/12482	PRESS PLATE, 325	Nos	1	1					Foc
6538	T-28/12482A	PRESS PLATE, 326	Nos	1	1					Foc
6539	T-28/12483A	JIG FOR SEAL STRIP, 329	Nos	2	2					Foc
6540	T-28/12484	VARNISH 311	Nos	1	1					Foc
6541	T-28/12484A	SOLVENT 312	Nos	1	1					Foc
6542	T-28/12485	ADHESIVE, 14	Nos	2	2					Foc
6543	T-28/12485A	ADHESIVE, 50	Nos	1	1					Foc
6544	T-28/12486A	RESIN 306	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6545	T-28/12487A	RESIN 308	Nos	4	4					Foc
6546	T-28/12488	RESIN 309	Nos	2	2					Foc
6547	T-28/12488A	RESIN 310	Nos	2	2					Foc
6548	T-28/12489	THERMO COUPLE, CO1R-001	Nos	1	1					Foc
6549	T-28/12489A	THERMO COUPLE, CO1R-002	Nos	1	1					Foc
6550	T-28/12490	THERMO COUPLE, CO1R-003	Nos	1	1					Foc
6551	T-28/12490A	THERMO COUPLE, CO1R-004	Nos	1	1					Foc
6552	T-28/12491	THERMO COUPLE, CO1R-005	Nos	1	1					Foc
6553	T-28/12491A	THERMO COUPLE, CO1R-006	Nos	1	1					Foc
6554	T-28/12492	THERMO COUPLE, CO1R-007	Nos	1	1					Foc
6555	T-28/12492A	THERMO COUPLE, CO1R-008	Nos	1	1					Foc
6556	T-28/12493	RING GASKET 605004-1	Nos	1	1					Foc
6557	T-28/12493A	SHINEL GASKET, 60500 Y-2	Nos	1	1					Foc
6558	T-28/12494	GASKET RF 60500Y-3	Nos	1	1					Foc
6559	T-28/12494A	PACKING,,B 32, 60500Y-4	Nos	3	3					Foc
6560	T-28/12495	GASKET ANSI 605007-5	Nos	3	3					Foc
6561	T-29/12603	PACKING,10X17 RF-150 1B-21	Nos	2	2					Foc
6562	T-29/12603A	PACKING,10X17 RF-150 1B-60500Y-7-22	Nos	2	2					Foc
6563	T-29/12604	PACKING,10X17 60500Y-7-23	Nos	1	1					Foc
6564	T-29/12604A	O RING B40N -24	Nos	1	1					Foc
6565	T-29/12605	PACKING, 60500Y-7-25	Nos	1	1					Foc
6566	T-29/12605A	HANDY-MAGNA 60000Y-1	Nos	1	1					Foc
6567	T-29/12606	BLACK LIGHT, 60000Y-2	Nos	1	1					Foc
6568	T-29/12606A	TRANSFORMER, 60000Y-3	Nos	1	1					Foc
6569	T-29/12607	TEST PIECE, 60000Y-4	Nos	1	1					Foc
6570	T-29/12607A	MAGNATRON, 600000-5	Nos	99	99					Foc
6571	T-29/12613A	O RING, 60200Y-12	Nos	1	1					Foc
6572	T-29/12614	SPLIT PIN, 60200Y-14	Nos	2	2					Foc
6573	T-29/12614A	SET SCREW, 60200-15	Nos	6	6					Foc
6574	T-29/12615	SET SCREW, 60200Y-16	Nos	6	6					Foc
6575	T-29/12615A	TAPER PIN, 60200Y-18	Nos	2	2					Foc
6576	T-29/12616	TAPER PIN, 60200Y-19	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6577	T-29/12616A	TAPER , 60200Y-20	Nos	6	6					Foc
6578	T-29/12617	SPLIT PIN, 60200Y-21	Nos	12	12					Foc
6579	T-29/12617A	TAPER PIN, 60200Y-22	Nos	4	4					Foc
6580	T-29/12618	TAPER PIN, 60200Y-23	Nos	4	4					Foc
6581	T-29/12618A	TAPER PIN, 60200Y-24	Nos	2	2					Foc
6582	T-29/12619	TAPER PIN, 60200Y-25	Nos	2	2					Foc
6583	T-29/12619A	DUST SEAL, 60200Y-26	Nos	4	4					Foc
6584	T-29/12620A	SET SCREW, 60200Y-28	Nos	1	1					Foc
6585	T-29/12621	SET SCREW, 60200Y-29	Nos	4	4					Foc
6586	T-29/12621A	SET SCREW, 60200Y-30	Nos	8	8					Foc
6587	T-29/12623	TAPER PIN, 60200Y-33	Nos	1	1					Foc
6588	T-29/12623A	TAPER PIN, 60200Y-34	Nos	4	4					Foc
6589	T-29/12624	TAPER PIN, 60200Y-35	Nos	1	1					Foc
6590	T-29/12624A	TAPER PIN, 60200Y-36	Nos	4	4					Foc
6591	T-29/12625	TAPER PIN, 60200Y-37	Nos	2	2					Foc
6592	T-29/12625A	TAPER PIN, 60200Y-38	Nos	4	4					Foc
6593	T-29/12626A	O RING, 60200Y-40	Nos	1	1					Foc
6594	T-29/12627	PACKING, 60200Y-41	Nos	1	1					Foc
6595	T-29/12627A	PACKING, 60200Y-42	Nos	2	2					Foc
6596	T-29/12628	PACKING, 60200Y-43	Nos	1	1					Foc
6597	T-29/12628A	PACKING, 60200Y-44	Nos	1	1					Foc
6598	T-29/12629	PACKING, 60200Y-45	Nos	1	1					Foc
6599	T-29/12629A	PACKING, 60200Y-46	Nos	1	1					Foc
6600	T-29/12629B	PACKING, 0.3, 195X230, 60200Y-47	Nos	1	1					Foc
6601	T-29/12630	SET SCREW, 60-200Y-48	Nos	4	4					Foc
6602	T-29/12630A	O RING , 60-200Y-49	Nos	2	2					Foc
6603	T-29/12631	O RING , 60-200Y-50	Nos	2	2					Foc
6604	T-29/12631A	PACKING, 60200Y-61	Nos	2	2					Foc
6605	T-29/12632A	OIL SEAL, 60200Y-53	Nos	1	1					Foc
6606	T-29/12633A	O RING , 60-200Y-55	Nos	1	1					Foc
6607	T-29/12634	SPLIT PIN , 60-200Y-56	Nos	2	2					Foc
6608	T-29/12634A	SET SCREW , 60-200Y-57	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6609	T-29/12635	PACKING, 60-200Y-58	Nos	1	1					Foc
6610	T-29/12636	TAPER PIN 60-200Y-61	Nos	4	4					Foc
6611	T-29/12636A	TAPER PIN 60-200Y-62	Nos	1	1					Foc
6612	T-29/12637	TAPER PIN 60-200Y-63	Nos	1	1					Foc
6613	T-29/12637A	TAPER PIN 60-200Y-64	Nos	4	4					Foc
6614	T-29/12638	OIL SEAL, 60-200Y-65	Nos	1	1					Foc
6615	T-29/12638A	TANGUED WASHER, 60-200Y-66	Nos	4	4					Foc
6616	T-29/12639	TAPER PIN 60-200Y-67	Nos	3	3					Foc
6617	T-29/12640	PARALLEL PIN, 60-200Y-69	Nos	1	1					Foc
6618	T-29/12640A	SPRING PIN, 60-200Y-70	Nos	1	1					Foc
6619	T-29/12641	PARALLEL PIN, 60-200Y-71	Nos	1	1					Foc
6620	T-29/12641A	PARALLEL PIN, 60-200Y-72	Nos	2	2					Foc
6621	T-29/12642	PARALLEL , 60-200Y-23	Nos	4	4					Foc
6622	T-29/12643	TANGUED WASHER-75	Nos	16	16					Foc
6623	T-29/12643A	PLATE , 60-200Y-76	Nos	16	16					Foc
6624	T-29/12645	TANGUED WASHER-79	Nos	24	24					Foc
6625	T-29/12645A	PACKING , 60-200Y-80	Nos	2	2					Foc
6626	T-29/12646	SET SCREW, 60-200Y-81	Nos	6	6					Foc
6627	T-29/12647A	TANGUED WASHER-84	Nos	4	4					Foc
6628	T-29/12648	TANGUED WASHER-85	Nos	4	4					Foc
6629	T-29/12648A	PACKING , 60-200Y-86	Nos	2	2					Foc
6630	T-29/12649	PACKING , 60-200Y-87	Nos	2	2					Foc
6631	T-29/12649A	PACKING , 60-200Y-88	Nos	2	2					Foc
6632	T-29/12650	PACKING , 60-200Y-89	Nos	2	2					Foc
6633	T-29/12650A	PACKING , 60-200Y-90	Nos	4	4					Foc
6634	T-29/12651	TANGUED WASHER-60-200Y-92	Nos	8	8					Foc
6635	T-29/12651A	TANGUED WASHER-60-200Y-93	Nos	4	4					Foc
6636	T-29/12652	SET SCREW , 60-200Y-94	Nos	4	4					Foc
6637	T-29/12653	PACKING , 60-200Y-96	Nos	1	1					Foc
6638	T-29/12653A	PACKING , 60-200Y-97	Nos	1	1					Foc
6639	T-29/12654A	PACKING , 60-200Y-99	Nos	1	1					Foc
6640	T-29/12655	PACKING , 60-200Y-100	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6641	T-29/12655A	SET SCREW , 60-200Y-101	Nos	6	6					Foc
6642	T-29/12656	SET SCREW , 60-200Y-102	Nos	14	14					Foc
6643	T-29/12657	TONGUED WASHER , 60-200Y-104	Nos	4	4					Foc
6644	T-29/12657A	TONGUED WASHER , 60-200Y-105	Nos	4	4					Foc
6645	T-29/12658	PACKING , 60-200Y-106	Nos	2	2					Foc
6646	T-29/12658A	PACKING , 60-200Y-107	Nos	2	2					Foc
6647	T-29/12659	PACKING , 60-200Y-108	Nos	2	2					Foc
6648	T-29/12659B	PACKING , 60-200Y-109	Nos	2	2					Foc
6649	T-29/12659A	PACKING , 60-200Y-110	Nos	4	4					Foc
6650	T-29/12660	TONGUED WASHER , 60-200Y-112	Nos	8	8					Foc
6651	T-29/12660A	TONGUED WASHER , 60-200Y-113	Nos	4	4					Foc
6652	T-29/12661A	SET SCREW , 60-200Y-115	Nos	6	6					Foc
6653	T-29/12663A	TONGUED WASHER , 60-200Y-119	Nos	24	24					Foc
6654	T-29/12664	TONGUED WASHER , 60-200Y-120	Nos	16	16					Foc
6655	T-29/12665	SET SCREW , 60-200Y-122	Nos	6	6					Foc
6656	T-29/12665A	TONGUED WASHER , 60-200Y-123	Nos	4	4					Foc
6657	T-29/12666	SET SCREW , 60-200Y-124	Nos	4	4					Foc
6658	T-29/12666A	SET SCREW , 60-200Y-125	Nos	3	3					Foc
6659	T-29/12667	SET SCREW , 60-200Y-126	Nos	4	4					Foc
6660	T-29/12668	PACKING , 60-200Y-128	Nos	4	4					Foc
6661	T-29/12668A	PACKING , 60-200Y-129	Nos	4	4					Foc
6662	T-29/12669A	SET SCREW, 60-200Y-131	Nos	16	16					Foc
6663	T-29/12670	O RING, 60-200Y-132	Nos	4	4					Foc
6664	T-29/12671A	SET SCREW, 60-200Y-136	Nos	24	24					Foc
6665	T-29/12672	SET SCREW, 60-200Y-137	Nos	4	4					Foc
6666	T-29/12672A	PACKING , 60-200Y-138	Nos	4	4					Foc
6667	T-29/12673	PACKING , 60-200Y-139	Nos	8	8					Foc
6668	T-29/12673A	PACKING , 60-200Y-140	Nos	40	40					Foc
6669	T-29/12674	TONGUED WASHER , 60-200Y-141	Nos	4	4					Foc
6670	T-29/12674A	PACKING , 60-200Y-142	Nos	4	4					Foc
6671	T-29/12675	PACKING , 60-200Y-143	Nos	4	4					Foc
6672	T-29/12675A	OIL SEAL , 60-200Y-144	Nos	4	4					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
6673	T-29/12676	TONGUED WASHER , 60-200Y-145	Nos	4	4					Foc
6674	T-29/12676A	PACKING , 60-200Y-146	Nos	4	4					Foc
6675	T-29/12677	TONGUED WASHER , 60-200Y-147	Nos	16	16					Foc
6676	T-29/12677A	PACKING , 60-200Y-148	Nos	8	8					Foc
6677	T-29/12678	PACKING , 60-200Y-149	Nos	4	4					Foc
6678	T-29/12678A	TONGUED WASHER , 60-200Y-151	Nos	4	4					Foc
6679	T-29/12679	O RING, 60-200Y-152	Nos	2	2					Foc
6680	T-29/12679A	SET SCREW , 60-200Y-153	Nos	2	2					Foc
6681	T-29/12680	PLATE , 60-200Y-154	Nos	2	2					Foc
6682	T-29/12680A	PLATE , 60-200Y-156	Nos	4	4					Foc
6683	T-29/12681	PLATE , 60-200Y-157	Nos	16	16					Foc
6684	T-29/12681A	TONGUED WASHER , 60-200Y-158	Nos	8	8					Foc
6685	T-29/12682	PACKING , 60-200Y-159	Nos	2	2					Foc
6686	T-29/12682A	PACKING , 60-200Y-160	Nos	4	4					Foc
6687	T-29/12683	SET SCREW, 60-200Y-161	Nos	6	6					Foc
6688	T-29/12683A	PACKING , 60-200Y-163	Nos	4	4					Foc
6689	T-29/12684A	OIL SEAL , 60-200Y-165	Nos	2	2					Foc
6690	T-29/12685	SET SCREW, 60-200Y-165	Nos	4	4					Foc
6691	T-29/12685A	TONGUED WASHER , 60-200Y-167	Nos	2	2					Foc
6692	T-29/12686	PLATE , 60-200Y-168	Nos	2	2					Foc
6693	T-29/12686A	PLATE , 60-200Y-169	Nos	2	2					Foc
6694	T-29/12687	RUBBER PACKING , 60-200Y-170	Nos	2	2					Foc
6695	T-29/12687A	O RING, 60-200Y-171	Nos	2	2					Foc
6696	T-29/12688	RUBBER PACKING , 60-200Y-172	Nos	2	2					Foc
6697	T-29/12688A	PACKING , 60-200Y-173	Nos	2	2					Foc
6698	T-29/12689A	TONGUED WASHER , 60-200Y-175	Nos	4	4					Foc
6699	T-29/12690	PACKING , 60-200Y-176	Nos	4	4					Foc
6700	T-29/12690A	PACKING , 60-200Y-177	Nos	2	2					Foc
6701	T-29/12691	SET SCREW, 60-200Y-178	Nos	6	6					Foc
6702	T-29/12691A	PACKING , 60-200Y-179	Nos	2	2					Foc
6703	T-29/12692	PACKING , 60-200Y-180	Nos	2	2					Foc
6704	T-29/12692B	PACKING ,0.3,140X330, 60-200Y-181	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6705	T-29/12694	TANGUED WASHER , 60-200Y-184	Nos	8	8					Foc
6706	T-29/12694A	PACKING , 60-200Y-185	Nos	4	4					Foc
6707	T-29/12695	PACKING , 60-200Y-186	Nos	2	2					Foc
6708	T-29/12695A	SET SCREW , 60-200Y-187	Nos	3	3					Foc
6709	T-29/12696	TANGUED WASHER , 60-200Y-188	Nos	2	2					Foc
6710	T-29/12697	SET SCREW , 60-200Y-190	Nos	3	3					Foc
6711	T-29/12697A	TANGUED WASHER , 60-200Y-191	Nos	2	2					Foc
6712	T-29/12698A	O RING , 60-200Y-193	Nos	3	3					Foc
6713	T-29/12699	O RING , 60-200Y-194	Nos	2	2					Foc
6714	T-29/12699A	TANGUED WASHER, 60-200Y-195	Nos	48	48					Foc
6715	T-29/12700	SET SCREW , 60-200Y-196	Nos	1	1					Foc
6716	T-29/12700A	SET SCREW , 60-200Y-197	Nos	8	8					Foc
6717	T-30/12701	SET SCREW , 60-200Y-197	Nos	8	8					Foc
6718	T-30/12701A	O RING , 60-200Y-198	Nos	2	2					Foc
6719	T-30/12702	O RING , 60-200Y-199	Nos	1	1					Foc
6720	T-30/12702A	TAPER PIN , 60-200Y-200	Nos	1	1					Foc
6721	T-30/12703	TAPER PIN , 60-200Y-201	Nos	2	2					Foc
6722	T-30/12703A	SET SCREW , 60-200Y-202	Nos	1	1					Foc
6723	T-30/12704	SPRING PIN , 60-200Y-203	Nos	1	1					Foc
6724	T-30/12704A	SPRING PIN , 60-200Y-204	Nos	3	3					Foc
6725	T-30/12704B	SPRING PIN ,4X12 AW, 60-200Y-205	Nos	1	1					Foc
6726	T-30/12705	SET SCREW , 60-200Y-206	Nos	3	3					Foc
6727	T-30/12706	O RING , 60-200Y-208	Nos	2	2					Foc
6728	T-30/12706A	O RING , 60-200Y-209	Nos	2	2					Foc
6729	T-30/12707	O RING , 60-200Y-210	Nos	1	1					Foc
6730	T-30/12707A	O RING , 60-200Y-211	Nos	1	1					Foc
6731	T-30/12708	TAPER PIN , 60-200Y-212	Nos	2	2					Foc
6732	T-30/12708A	TAPER PIN , 60-200Y-213	Nos	1	1					Foc
6733	T-30/12709	PARALLEL PIN , 60-200Y-214	Nos	1	1					Foc
6734	T-30/12709A	SET SCREW , 60-200Y-215	Nos	3	3					Foc
6735	T-30/12710	O RING , 60-200Y-218	Nos	2	2					Foc
6736	T-30/12710A	PACKING , 60-200Y-220	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6737	T-30/12711	CLAW WASHER , 60-200Y-221	Nos	1	1					Foc
6738	T-30/12711A	SET SCREW , 60-200Y-222	Nos	1	1					Foc
6739	T-30/12712	SET SCREW , 60-200Y-223	Nos	1	1					Foc
6740	T-30/12712A	O RING , 60-200Y-224	Nos	2	2					Foc
6741	T-30/12713	O RING , 60-200Y-225	Nos	1	1					Foc
6742	T-30/12713A	O RING , 60-200Y-226	Nos	1	1					Foc
6743	T-30/12714	TAPER PIN , 60-200Y-228	Nos	4	4					Foc
6744	T-30/12714A	TANGOUED WASHER	Nos	8	8					Foc
6745	T-30/12715	CLAW WASHER	Nos	2	2					Foc
6746	T-30/12715A	TANGOUED WASHER, 60200-231	Nos	2	2					Foc
6747	T-30/12716A	TANGOUED WASHER, 60-200Y-233	Nos	7	7					Foc
6748	T-30/12717	TAPER PIN , 60-200Y-234	Nos	2	2					Foc
6749	T-30/12718	SET SCREW , 60-200Y-236	Nos	2	2					Foc
6750	T-30/12718A	TAPER PIN , 60-200Y-237	Nos	1	1					Foc
6751	T-30/12719	TAPER PIN , 60-200Y-238	Nos	1	1					Foc
6752	T-30/12719A	TAPER PIN , 60-200Y-239	Nos	2	2					Foc
6753	T-30/12720A	TANGOUED WASHER, 60-200Y-241	Nos	18	18					Foc
6754	T-30/12721	TANGOUED WASHER, 60-200Y-242	Nos	4	4					Foc
6755	T-30/12721A	TANGOUED WASHER, 60-200Y-243	Nos	5	5					Foc
6756	T-30/12722A	O RING, 60-200Y-245	Nos	1	1					Foc
6757	T-30/12723A	SET SCREW, 60-200Y-247	Nos	1	1					Foc
6758	T-30/12725	O RING, 60-200Y-250	Nos	3	3					Foc
6759	T-30/12725A	TAPER PIN, 60-200Y-251	Nos	3	3					Foc
6760	T-30/12726A	TANGOUED WASHER, 60-200Y-253	Nos	24	24					Foc
6761	T-30/12727	TANGOUED WASHER, 60-200Y-254	Nos	4	4					Foc
6762	T-30/12727A	FITTED KEY, 60100-Y-1	Nos	2	2					Foc
6763	T-30/12728	FITTED KEY, 60100-Y-2	Nos	2	2					Foc
6764	T-30/12728A	FITTED KEY, 60100-Y-3	Nos	1	1					Foc
6765	T-30/12729	FITTED KEY, 60100-Y-4	Nos	1	1					Foc
6766	T-30/12731A	FITTED KEY, 60100-Y-9	Nos	1	1					Foc
6767	T-30/12732	FITTED KEY, 60100-Y-10	Nos	1	1					Foc
6768	T-30/12732A	FITTED KEY, 60100-Y-11	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
6769	T-30/12733	FITTED KEY, 60100-Y-12	Nos	1	1					Foc
6770	T-30/12733A	FITTED KEY, 60100-Y-13	Nos	2	2					Foc
6771	T-30/12734	FITTED KEY, 60100-Y-14	Nos	2	2					Foc
6772	T-30/12734A	FITTED KEY, 60100-Y-15	Nos	1	1					Foc
6773	T-30/12735	FITTED KEY, 60100-Y-16	Nos	1	1					Foc
6774	T-30/12737A	FITTED KEY, 60100-Y-21	Nos	2	2					Foc
6775	T-30/12738	FITTED KEY, 60100-Y-22	Nos	2	2					Foc
6776	T-30/12738A	FITTED KEY, 60100-Y-23	Nos	1	1					Foc
6777	T-30/12739	FITTED KEY, 60100-Y-24	Nos	1	1					Foc
6778	T-30/12741A	FITTED KEY, 60100-Y-29	Nos	4	4					Foc
6779	T-30/12742	TONGUED WASHER, 60100-Y-30	Nos	4	4					Foc
6780	T-30/12742A	TONGUED WASHER, 60100-Y-31	Nos	12	12					Foc
6781	T-30/12743	KEY, 60100-Y-32	Nos	4	4					Foc
6782	T-30/12743A	PACKING, 60100-Y-33	Nos	8	8					Foc
6783	T-30/12744	PLATE, 60100-Y-34	Nos	2	2					Foc
6784	T-30/12747A	KEY, 60100-Y-41	Nos	8	8					Foc
6785	T-30/12748	PARALLEL PIN, 60100-Y-42	Nos	6	6					Foc
6786	T-30/12748A	HEX: HEAD BOLT, 60100-Y-43	Nos	6	6					Foc
6787	T-30/12749	KEY, 60100-Y-44	Nos	3	3					Foc
6788	T-30/12749A	KEY, 60100-Y-45	Nos	3	3					Foc
6789	T-30/12750	RING GASKET, 60100-Y-46	Nos	1	1					Foc
6790	T-30/12750A	RING GASKET, 60100-Y-47	Nos	1	1					Foc
6791	T-30/12751	RING GASKET, 60100-Y-48	Nos	2	2					Foc
6792	T-30/12751A	SPREAD WOUND GASKET, 60100-Y-49	Nos	1	1					Foc
6793	T-30/12752	SPREAD WOUND GASKET, 60100-Y-50	Nos	4	4					Foc
6794	T-30/12752A	SPREAD WOUND GASKET, 60100-Y-51	Nos	1	1					Foc
6795	T-30/12753A	SPREAD WOUND GASKET, 60100-Y-53	Nos	1	1					Foc
6796	T-30/12754A	HEX: HEAD BOLT, 60100-Y-55	Nos	5	5					Foc
6797	T-30/12755	HEX: HEAD BOLT, 60100-Y-56	Nos	5	5					Foc
6798	T-30/12755A	LOCK PLATE, 60100-Y-57	Nos	4	4					Foc
6799	T-30/12757	FITTED KEY, 60100-Y-60	Nos	1	1					Foc
6800	T-30/12757A	FITTED KEY, 60100-Y-61	Nos	2	2					Foc

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6801	T-30/12761A	FITTED KEY, 60100-Y-69	Nos	1	1					Foc
6802	T-30/12762	DOUBLE PLATE WASHER, 60100-Y-70	Nos	1	1					Foc
6803	T-30/12762A	KEY, 60100-Y-71	Nos	4	4					Foc
6804	T-30/12764A	SHIM, 2.702, 60100-Y-75	Nos	2	2					Foc
6805	T-30/12765	SHIM, 0.5, 60100-Y-77	Nos	3	3					Foc
6806	T-30/12765A	SHIM, 0.2, 60100-Y-78	Nos	2	2					Foc
6807	T-30/12766	SHIM, 0.1, 60100-Y-79	Nos	2	2					Foc
6808	T-30/12766A	SHIM, 80X89, 60100-Y-80	Nos	2	2					Foc
6809	T-30/12767	SHIM, 114X440, 60100-Y-81	Set	3	3					Foc
6810	T-30/12767A	SHIM, 129X130, 60100-Y-82	Nos	2	2					Foc
6811	T-30/12768	SHIM, 35X120, 60100-Y-83	Nos	1	1					Foc
6812	T-30/12768A	SHIM, 130X169, 60100-Y-84	Nos	2	2					Foc
6813	T-30/12769	SHIM, , 60100-Y-85	Nos	4	4					Foc
6814	T-30/12769A	SHIM, 0.5, 60100-Y-86	Nos	4	4					Foc
6815	T-30/12770	SHIM, 0.2, 60100-Y-87	Nos	4	4					Foc
6816	T-30/12770A	SHIM, 0.1, 60100-Y-88	Nos	4	4					Foc
6817	T-30/12771	SHIM, 2, 60100-Y-89	Nos	2	2					Foc
6818	T-30/12771A	SHIM, 0.5, 60100-Y-90	Nos	3	3					Foc
6819	T-30/12772	SHIM, 0.2, 60100-Y-91	Nos	2	2					Foc
6820	T-30/12772A	SHIM, 0.1, 60100-Y-92	Nos	2	2					Foc
6821	T-30/12773	SHIM, 130X169, 60100-Y-93	Set	2	2					Foc
6822	T-30/12773A	SHIM, 1, 60100-Y-94	Nos	4	4					Foc
6823	T-30/12774	SHIM, 0.5, 60100-Y-95	Nos	4	4					Foc
6824	T-30/12774A	SHIM, 0.2, 60100-Y-96	Nos	4	4					Foc
6825	T-30/12775	SHIM, 0.1, 60100-Y-97	Nos	4	4					Foc
6826	T-30/12775A	SHIM, 2, 60100-Y-98	Nos	2	2					Foc
6827	T-30/12776	SHIM, 0.5, 60100-Y-99	Nos	3	3					Foc
6828	T-30/12776A	SHIM, 0.2, 60100-Y-100	Nos	2	2					Foc
6829	T-30/12777	SHIM, 0.1, 60100-Y-101	Nos	2	2					Foc
6830	T-30/12777A	LINER, D-79, 60100-Y-102	Nos	2	2					Foc
6831	T-30/12778	LINER,, 60100-Y-103	Nos	2	2					Foc
6832	T-30/12778A	SPRING WASHER, 60100-Y-104	Nos	12	12					Foc

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6833	T-30/12779	LINER, 89X119 60100-Y-105	Nos	2	2					Foc
6834	T-30/12779A	LINER 104X124, 60100-Y-106	Set	2	2					Foc
6835	T-30/12780	LINER, D-79 60100-Y-107	Set	2	2					Foc
6836	T-30/12780A	SPRING WASHER, 60100-Y-108	Nos	2	2					Foc
6837	T-30/12781	LINER,99X124 60100-Y-109	Set	2	2					Foc
6838	T-30/12781A	SPRING WASHER, 60100-Y-110	Nos	8	8					Foc
6839	T-30/12782	SHIM, 20X85 60100-Y-111	Set	16	16					Foc
6840	T-30/12783	PIPE SUS 304 TPE 100 ASCH 203,4002 B588-2-1	Nos	1	1					Foc
6841	T-30/12783A	PIPE SUS 304 TPE 50 ASCH 40L,4002 B588-2-2	Nos	8	8					Foc
6842	T-30/12784	TEE SUS 304 100AX50 ASCH 20B, B588-2-3	Nos	1	1					Foc
6843	T-30/12794	CSR 470 PBL, G15M-025	Nos	6	6					Foc
6844	T-30/12795	DIOD SKN 870/04, G15M-026	Nos	4	4					Foc
6845	T-30/12795A	LEED YELOW, G15M-028	Nos	1	1					Foc
6846	T-30/12796	LEED GREEN, G15M-029	Nos	1	1					Foc
6847	T-30/12796A	CAPACITOR CLIP, G15M-030	Nos	1	1					Foc
6848	T-30/12797	DIODE ANNY REGULATOR, G15M-031	Nos	3	3					Foc
6849	T-30/12797A	FUSE, 700FMM, G15M-032	Nos	6	6					Foc
6850	T-30/12798A	HYDRO METER, G15M-003	Nos	2	2					Foc
6851	T-30/12799A	BATTERY CELL, G15M-007	Nos	9	9					Foc
6852	T-30/12800	EXPLOSION MINIMIZING VENT PLUG, G15M-008	Nos	8	8					Foc
6853	T-30/12800A	FILLING FUNNEL, G15M-011	Nos	1	1					Foc
6854	T-31/13501A	FUSE, GSG 1000/30, G15M-013	Nos	2	2					Foc
6855	T-31/13502	DIODE, 1000V, 1AMP. G15M-015	Nos	1	1					Foc
6856	T-31/13502A	LEAD GREEN G15M-016	Nos	1	1					Foc
6857	T-31/13503	LEAD RED G15M-018	Nos	1	1					Foc
6858	T-31/13503A	DIODE AMY G15M-019	Nos	1	1					Foc
6859	T-31/13504A	DIODE, G15M-021	Nos	1	1					Foc
6860	T-31/13505	CAPACITOR G15M-022	Nos	1	1					
6861	T-31/13505A	PCB CSR, CONTROLLER, G15M-023	Nos	1	1					Foc
6862	T-31/13506	CAPACITOR, 2200MF, 350V, DC G15M-024	Nos	9	9					Foc
6863	T-31/13506A	EXPLOSION MINIMIZING VENT PLUG, G15M-002	Nos	3	3					Foc
6864	T-31/13508	BOX FOR ACCESSORIES, G15M-005	Nos	1	1					Foc

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6865	T-31/13508A	EXPLOSION MINIMIZING VENT PLUG, G15M-008	Nos	11	11					Foc
6866	T-31/13509	HYDRO METER, V2B G15M-009	Nos	1	1					Foc
6867	T-31/13510	FUSE GSC 1000/3 G15M-013	Nos	2	2					Foc
6868	T-31/13511	LEAD RED, G15M-027	Nos	2	2					Foc
6869	T-31/13511A	HEATING ELEMENT, E17M-014	Nos	1	1					Foc
6870	T-31/13513	STRING BAR , E17M-018	Nos	3	3					Foc
6871	T-31/13513A	PIPER HEATER, E17M-019	Nos	1	1					Foc
6872	T-31/13514	THERMO COUPLE, E17M-020	Nos	1	1					Foc
6873	T-31/13514A	CARBON BRUSH, E17M-024	Nos	2	2					Foc
6874	T-31/13515	FUSE 250 5A, E17M-025	Nos	2	2					Foc
6875	T-31/13515A	CATIAN & ANION RESIN, E17M-027	Nos	1	1					Foc
6876	T-31/13516	LAMP 100V 3A , E17M-028	Nos	5	5					Foc
6877	T-31/13516A	FUSE WIRE 1 SET 1000 Pcs, E17M-033	Nos	4	4					Foc
6878	T-31/13517	PILOT RELAY, D17M-018	Nos	1	1					Foc
6879	T-31/13517A	TAPPING VALVE GLOBE, 600# 25A D17M-035	Nos	1	1					Foc
6880	T-31/13521A	CARBON BRUSH, E20M-001	Nos	6	6					Foc
6881	T-31/13522	CARBON BRUSH, E20M-002	Nos	18	18					Foc
6882	T-31/13522A	BRUSH HOLDER, E20M-003	Nos	3	3					Foc
6883	T-31/13523	PIN, E20M-004	Nos	1	1					Foc
6884	T-31/13523A	BRUSH HOLDER, E20M-005	Nos	9	9					Foc
6885	T-31/13524	PIN, E20M-006	Nos	3	3					Foc
6886	T-31/13524A	ERICTION DISC, E20M-007	Nos	1	1					Foc
6887	T-31/13525	WIRE ROPE (16mm) , E20M-008	Nos	1	1					Foc
6888	T-31/13525A	FUSE , E20M-009	Nos	1	1					Foc
6889	T-31/13526	INDICATION LAMP, E20M-010	Nos	2	2					Foc
6890	T-31/13526A	OL SEAL, E20R-001	Nos	1	1					Foc
6891	T-31/13527	INDICATING LIGHT BODY, E20R-002	Nos	2	2					Foc
6892	T-31/13527A	INDICATING LIGHT BULB, E20R-003	Nos	1	1					Foc
6893	T-31/13528	FRICTION DISC, E20R-004	Nos	2	2					Foc
6894	T-31/13528A	FRICTION DISC, E20R-005	Nos	3	3					Foc
6895	T-31/13529	FRICTION DISC, E20R-006	Nos	3	3					Foc
6896	T-31/13529A	CABON BRUSH, E20R-007	Nos	12	12					Foc

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1	2	3	4	5	6	7	8	10	11	12
6897	T-31/13530	CABON BRUSH, E20R-008	Nos	36	36					Foc
6898	T-31/13530A	CABON BRUSH, E20R-009	Nos	6	6					Foc
6899	T-31/13531	PIN, E20R-010	Nos	2	2					Foc
6900	T-31/13531A	BRUSH HOLDER, E20R-011	Nos	18	18					Foc
6901	T-31/13532	PIN, E20R-012	Nos	6	6					Foc
6902	T-31/13533	CONTACTOR, E20R-014	Nos	1	1					Foc
6903	T-31/13534A	CONTACTOR, E20R-017	Nos	1	1					Foc
6904	T-31/13535A	AUX: RELAY, E20R-019	Nos	4	4					Foc
6905	T-31/13536A	TIME RELAY 'E20R-021	Nos	1	1					Foc
6906	T-31/13537	PROTECTION SWITCH 'E20R-022	Nos	2	2					Foc
6907	T-31/13538	HRC FUSE LINK 'E20R-024	Nos	6	6					Foc
6908	T-31/13538A	HRC FUSE LINK 'E20R-025	Nos	3	3					Foc
6909	T-31/13539A	CONTRIDGE SENSOR ' E20R-027	Nos	5	5					Foc
6910	T-31/13540	LENSE 'E20R-028	Nos	1	1					Foc
6911	T-31/13540A	INDICATING LIGHT 'E20R-029	Nos	2	2					Foc
6912	T-31/13541	MUSHROOM BUTTON 'E20R-030	Nos	1	1					Foc
6913	T-31/13541A	HANDLE' E20R-031	Nos	1	1					Foc
6914	T-31/13542A	CARBON BRUSH ' E02M-001	Nos	6	6					Foc
6915	T-31/13543	CARBON BRUSH 'E02M-002	Nos	18	18					Foc
6916	T-31/13543A	CARBON BRUSH 'E02M-003	Nos	6	6					Foc
6917	T-31/13544	BRUSH HOLDER 'E02M-004	Nos	3	3					Foc
6918	T-31/13544A	PIN 'E02M-005	Nos	1	1					Foc
6919	T-31/13545	BRUSH HOLDER 'E02M-006	Nos	9	9					Foc
6920	T-31/13545A	PIN 'E02M-007	Nos	3	3					Foc
6921	T-31/13546	CARBON BRUSH HOLDER 'E02M-008	Nos	3	3					Foc
6922	T-31/13546A	PIN 'E02M-009	Nos	1	1					Foc
6923	T-31/13547A	MAIN CONTACTOR TAP FOR CONTROLLER' E02M-011	Nos	1	1					Foc
6924	T-31/13549	FUSE' E02M-014	Nos	1	1					Foc
6925	T-31/13549A	INDICATION LAMP' E02M-015	Nos	2	2					Foc
6926	T-31/13550	OIL SEAL ' E02R-001	Nos	1	1					Foc
6927	T-31/13550A	MAGNATIC CONTACTOR' E02R-002	Nos	1	1					Foc
6928	T-31/13551	SHOE FOR MAIN RUN WAY COLLECTOR' E02R-003	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6929	T-31/13551A	ILLUMINATING LIGHT BULB 'E02R-004	Nos	1	1					Foc
6930	T-31/13552	FRICTION DISC/ BRAKE LINING 'E02R-005	Nos	2	2					Foc
6931	T-31/13552A	FRICTION DISC 'E02R-006	Nos	3	3					Foc
6932	T-31/13553	FRICTION DISC 'E02R-007	Nos	3	3					Foc
6933	T-31/13553A	FRICTION DISC 'E02R-008	Nos	2	2					Foc
6934	T-31/13554	CARBON BRUSH 'E02R-009	Nos	12	12					Foc
6935	T-31/13554A	CARBON BRUSH 'E02R-010	Nos	36	36					Foc
6936	T-31/13555	CARBON BRUSH 'E02R-011	Nos	12	12					Foc
6937	T-31/13555A	BRUSH HOLDER 'E02R-012	Nos	6	6					Foc
6938	T-31/13556	PIN 'E02R-013	Nos	2	2					Foc
6939	T-31/13556A	BRUSH HOLDER 'E02R-014	Nos	18	18					Foc
6940	T-31/13557	PIN 'E02R-015	Nos	6	6					Foc
6941	T-31/13557A	CARBON BRUSH HOLDER 'E02R-016	Nos	6	6					Foc
6942	T-31/13558	PIN 'E02R-017	Nos	2	2					Foc
6943	T-31/13559A	MAIN CONTACTOR 'E02R-020	Nos	1	1					Foc
6944	T-31/13560	MAIN CONTACTOR SET 'E02R-021	Nos	3	3					Foc
6945	T-31/13560A	CONTACTOR 'E02R-022	Nos	1	1					Foc
6946	T-31/13561	CONTACTOR 'E02R-023	Nos	1	1					Foc
6947	T-31/13561A	AUX: CONTACTOR SET 'E02R-024	Nos	2	2					Foc
6948	T-31/13562	AUX: CONTACTOR SET 'E02R-025	Nos	2	2					Foc
6949	T-31/13563	CONTACTOR 'E02R-027	Nos	1	1					Foc
6950	T-31/13563A	CONTACTOR 'E02R-028	Nos	2	2					Foc
6951	T-31/13564	AUX: RELAY 'E02R-029	Nos	2	2					Foc
6952	T-31/13564A	AUX: RELAY 'E02R-030	Nos	7	7					Foc
6953	T-31/13565	TIME RELAY 'E02R-031	Nos	3	3					Foc
6954	T-31/13566	PROTECTION SWITCH 'E02R-033	Nos	4	4					Foc
6955	T-31/13567	HRC, FUSE LINK 'E02R-035	Nos	6	6					Foc
6956	T-31/13567A	HRC, FUSE LINK 'E02R-036	Nos	6	6					Foc
6957	T-31/13568	HRC, FUSE LINK 'E02R-037	Nos	6	6					Foc
6958	T-31/13568A	CARTRIDGE SENSER 'E02R-038	Nos	16	16					Foc
6959	T-31/13569	CARTRIDGE SENSER 'E02R-039	Nos	4	4					Foc
6960	T-31/13569A	CARTRIDGE SENSER 'E02R-040	Nos	6	6					Foc

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6961	T-31/13570	CARTRIDGE 'E02R-041	Nos	3	3					Foc
6962	T-31/13570A	CONTACT FRAME 'E02R-042	Nos	3	3					Foc
6963	T-31/13571	CONTACT 'E02R-043	Nos	2	2					Foc
6964	T-31/13571A	CONTACT 'E02R-044	Nos	2	2					Foc
6965	T-31/13572	LENSE E02R-045	Nos	1	1					Foc
6966	T-31/13572A	INDICATING LIGHT 'E02R-046	Nos	2	2					Foc
6967	T-31/13573	MUSHROOM BUTTON 'E02R-047	Nos	1	1					Foc
6968	T-31/13573A	HANDLE 'E02R-048	Nos	1	1					Foc
6969	T-31/13574A	BRUSH HOLDER 'E02R-050	Nos	4	4					Foc
6970	T-31/13575	CARBON BRUSH , D16M-001	Nos	6	6					Foc
6971	T-31/13575A	CARBON BRUSH , D16M-002	Nos	18	18					Foc
6972	T-31/13576	BRUSH HOLDER 'D16M-003	Nos	3	3					Foc
6973	T-31/13576A	PIN 'D16M-004	Nos	1	1					Foc
6974	T-31/13577	BRUSH HOLDER 'D16M-005	Nos	9	9					Foc
6975	T-31/13577A	PIN 'D16M-006	Nos	3	3					Foc
6976	T-31/13578	FRICTION DISC 'D16M-007	Nos	1	1					Foc
6977	T-31/13578A	WIRE ROPE, (16mm)' D16M-008	Nos	1	1					Foc
6978	T-31/13579	FUSE' D16M-009	Nos	1	1					Foc
6979	T-31/13579A	INDICATION LAMP' D16M-010	Nos	2	2					Foc
6980	T-31/13580	FRICTION DISC, D16R-001	Nos	2	2					Foc
6981	T-31/13580A	FRICTION DISC, D16R-002	Nos	3	3					Foc
6982	T-31/13581	FRICTION DISC, D16R-003	Nos	3	3					Foc
6983	T-31/13581A	CARBON BRUSH 'D16R-004	Nos	12	12					Foc
6984	T-31/13582	CARBON BRUSH 'D16R-005	Nos	36	36					Foc
6985	T-31/13582A	CARBON BRUSH 'D16R-006	Nos	6	6					Foc
6986	T-31/13583	PIN 'D16R-007	Nos	2	2					Foc
6987	T-31/13583A	BRUSH HOLDER 'D16R-008	Nos	18	18					Foc
6988	T-31/13584	PIN 'D16R-009	Nos	6	6					Foc
6989	T-31/13584A	WIRE ROPE 'D16R-010	Nos	1	1					Foc
6990	T-31/13585A	CONTACTOR 'D16R-012	Nos	1	1					Foc
6991	T-31/13586	CONTACTOR 'D16R-013	Nos	2	2					Foc
6992	T-31/13586A	CONTACTOR 'D16R-014	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
6993	T-31/13587A	AUX: RELAY 'D16R-016	Nos	3	3					Foc
6994	T-31/13590	HRC FUSE LINK 'D16R-021	Nos	6	6					Foc
6995	T-31/13591A	CARTRIDGE SENSER 'D16R-024	Nos	6	6					Foc
6996	T-31/13592	PUSH BUTTON SWITCH 'D16R-025	Nos	3	3					Foc
6997	T-31/13592A	CONTACT FRAME'D16R-026	Nos	3	3					Foc
6998	T-31/13593	CONTACTOR 'D16R-027	Nos	2	2					Foc
6999	T-31/13593A	CONTACTOR 'D16R-028	Nos	2	2					Foc
7000	T-31/13594	LENSE 'D16R-029	Nos	1	1					Foc
7001	T-31/13594A	INDICATING LIGHT 'D16R-030	Nos	2	2					Foc
7002	T-31/13595	MUSHROOM BUTTON 'D16R-031	Nos	1	1					Foc
7003	T-31/13595A	HANDLE KNOB 'D16R-032	Nos	1	1					Foc
7004	T-31/13596A	OIL SEAL 'D16R-034	Nos	1	1					Foc
7005	T-31/13597	MAGNATIC CONTACT 'D16R-035	Nos	1	1					Foc
7006	T-31/13597A	ILLUMINATING LIGHT BULB 'D16R-036	Nos	1	1					Foc
7007	T-31/13598	ROLLER MUST 'E18M-001-1	Nos	4	4					Foc
7008	T-31/13598A	ROLLER LIFT BRAKET E18M-001-2	Nos	8	8					Foc
7009	T-31/13600	PACKING POWER STRING, E18M-001-14	Nos	1	1					Foc
7010	T-31/13600A	HOSE DRUG LINK, E18M-001-06	Nos	2	2					Foc
7011	T-32/14202	BELL 'E18R-001-1	Nos	1	1					Foc
7012	T-32/14202A	READY POWER 'E18R-001-2	Nos	2	2					Foc
7013	T-32/14203	FUSE 5A 'E18R-001-5	Nos	10	10					Foc
7014	T-32/14203A	FUSE 10A 'E18R-001-6	Nos	10	10					Foc
7015	T-32/14204	FUSE 15A 'E18R-001-24	Nos	10	10					Foc
7016	T-32/14204A	FUSE, 20A 'E18R-001-25	Nos	10	10					Foc
7017	T-32/14205	BUZZER 'E18R-001-7	Nos	1	1					Foc
7018	T-32/14206	CYLINDER BRAKE ASSY, 'E18R-001-14	Nos	2	2					Foc
7019	T-32/14207A	FILTER FUEL, 'E18R-001-18	Nos	1	1					Foc
7020	T-32/14208A	BULB HEAD LAMP, 'E18R-001-21	Nos	5	5					Foc
7021	T-32/14209	BULB 24V-12W, 'E18R-001-22	Nos	5	5					Foc
7022	T-32/14209A	BULB 24V-10W, 'E18R-001-23	Nos	5	5					Foc
7023	T-32/14210	UNIT OIL PRESSURE, 'E18R-001-27	Nos	1	1					Foc
7024	T-32/14210A	SWITCH PRESSURE, 'E18R-001-28	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
7025	T-32/14211A	MIRROR BACK:, 'E18R-001-30	Nos	1	1					Foc
7026	T-32/14212A	LIGHTINING FIXTURE EXPECT MURCURY LAMP, G20M-(	Nos	4	4					Foc
7027	T-32/14213	LIGHTINING FIXTURE EXPECT MURCURY LAMP, G20M-(	Nos	1	1					Foc
7028	T-32/14213A	LIGHTINING FIXTURE EXPECT MURCURY LAMP, G20M-(	Nos	1	1					Foc
7029	T-32/14216A	LIGHTINING FIXTURE EXPECT MURCURY LAMP, G20M-(	Nos	1	1					Foc
7030	T-32/14217A	LIGHTINING FIXTURE EXPECT MURCURY LAMP, G20M-(	Nos	5	5					Foc
7031	T-32/14219A	LIGHTINING FIXTURE FOR MURCURY VAPOUR LAMP, G	Nos	5	5					Foc
7032	T-32/14221A	CONDENSER FOR MURCURY VAPOUR LAMP, G20M-007	Nos	9	9					Foc
7033	T-32/14222	CONDENSER FOR MURCURY VAPOUR LAMP (20uf), G20M	Nos	10	10					Foc
7034	T-32/14223A	PUSH ROD INLET, G14M-001	Nos	1	1					Foc
7035	T-32/14224	PUSH ROD EXHAUST, G14M-002	Nos	1	1					Foc
7036	T-32/14224A	PISTON RING, G14M-003	Nos	12	12					Foc
7037	T-32/14225	SMALL END BUSH, G14M-004	Nos	1	1					Foc
7038	T-32/14225A	CYLINDER HEAD ASSY, G14M-005	Nos	2	2					Foc
7039	T-32/14226	INLET VALVE, , G14M-006	Nos	1	1					Foc
7040	T-32/14226A	EXHAUST VALVE, , G14M-007	Nos	1	1					Foc
7041	T-32/14227	VALVE SPRING, G14M-008	Nos	1	1					Foc
7042	T-32/14227A	INJECTOR NOZZLE, G14M-009	Nos	2	2					Foc
7043	T-32/14228	INJECTOR HOLDER, G14M-010	Nos	2	2					Foc
7044	T-32/14230	BOTTOM GASKET JOINT, G14M-014	Nos	1	1					Foc
7045	T-32/14230A	VOLTAGE CONTROL, G14M-015	Nos	1	1					Foc
7046	T-32/14231	MODEL PCB, , G14M-016	Nos	1	1					Foc
7047	T-32/14231A	MODEL PCB, , EKB-10000	Nos	1	1					Foc
7048	T-32/14232	MODEL PCB, , EKD-19000	Nos	1	1					Foc
7049	T-32/14232A	MODEL PCB, , EKE-11000	Nos	1	1					Foc
7050	T-32/14233	MODEL PCB, , EKF-10000	Nos	1	1					Foc
7051	T-32/14233A	MODEL PCB, , EKG-11000	Nos	1	1					Foc
7052	T-32/14234	MODEL PCB, , EKH-12000	Nos	1	1					Foc
7053	T-32/14234A	MODEL PCB, , EKG-10000	Nos	1	1					Foc
7054	T-32/14235	MODEL PCB, , EKK-12000	Nos	1	1					Foc
7055	T-32/14236A	HIGH SPEED FUSE, 30A, D21R-001	Nos	4	4					Foc
7056	T-32/14237	HIGH SPEED FUSE, 50A, D21R-002	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
7057	T-32/14237A	ALARM FUSE, D21R-003	Nos	6	6					Foc
7058	T-32/14238	FUSE, BLA 003, D21R-004	Nos	9	9					Foc
7059	T-32/14238A	FUSE, BLA 010, D21R-005	Nos	2	2					Foc
7060	T-32/14239	PILOT LAMP, 18V,2W,D21R-006	Nos	8	8					Foc
7061	T-32/14239A	PRINTED BOARD, D21R-007	Nos	1	1					Foc
7062	T-32/14240	PRINTED BOARD, D21R-008	Nos	1	1					Foc
7063	T-32/14240A	HANDLE KEY, D21R-009	Nos	2	2					Foc
7064	T-32/14241A	PLATINIZED NIEBURN ANODE, D21R-011	Nos	16	16					Foc
7065	T-32/14242	ZINC REFERENCE ELECTRODE, D21R-012	Nos	2	2					Foc
7066	T-32/14242b	ROTOR ASSY D09M-001	Nos	1	1					Foc
7067	T-32/14243	SLEEVE BEARING, D09M-002	Nos	3	3					Foc
7068	T-32/14243A	SLEEVE BEARING, D09M-003	Nos	2	2					Foc
7069	T-32/14244	THRUST SHOE, D09M-004	Nos	24	24					Foc
7070	T-32/14245	SPIRAL WOUND GASKET 'D09M-006	Nos	2	2					Foc
7071	T-32/14245A	SPIRAL WOUND GASKET 'D09M-007	Nos	2	2					Foc
7072	T-32/14246A	SOLID METAL FLATE GASKET 'D09M-009	Nos	8	8					Foc
7073	T-32/14248A	O RING 'D09M-013	Nos	8	8					Foc
7074	T-32/14249A	O RING 'D09M-015	Nos	13	13					Foc
7075	T-32/14253A	O RING 'D09M-023	Nos	5	5					Foc
7076	T-32/14254A	O RING 'D09M-025	Nos	5	5					Foc
7077	T-32/14255	O RING 'D09M-026	Nos	5	5					Foc
7078	T-32/14256	THRUST COLLER 'D09M-028	Nos	1	1					Foc
7079	T-32/14260A	O RING 'D09M-038	Nos	6	6					Foc
7080	T-32/14261A	UPPER SUBMERGED BEARING 'D05M-001	Nos	9	9					Foc
7081	T-32/14262	LOWER SUBMERGED BEARING 'D05M-002	Nos	9	9					Foc
7082	T-32/14262A	UPPER SHAFT SLEEVE 'D05M-003	Nos	3	3					Foc
7083	T-32/14263	LOWER SHAFT SLEEVE 'D05M-004	Nos	3	3					Foc
7084	T-32/14263A	GLAND PACKING SLEEVE, D05M-005	Nos	3	3					Foc
7085	T-32/14264	IMPELLER, D05M-006	Nos	1	1					Foc
7086	T-32/14264A	LINER RING, (1) D05M-007	Nos	2	2					Foc
7087	T-32/14265	LINER RING, D05M-008	Nos	2	2					Foc
7088	T-32/14266	GLAND PACKING , D05M-010	Nos	3	3					Foc

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1	2	3	4	5	6	7	8	10	11	12
7089	T-32/14266A	IMPELLER NUT, D05R-002	Nos	1	1					Foc
7090	T-32/14267	GLAND PACKING , D05R-003	Nos	9	9					Foc
7091	T-32/14268A	GASKET, D05R-006	Nos	63	63					Foc
7092	T-32/14269	GASKET, D05R-007	Nos	18	18					Foc
7093	T-32/14269A	HEXAGONE BOLT, D05R-008	Nos	8	8					Foc
7094	T-32/14270A	HEXAGONE BOLT, D05R-010	Nos	2	2					Foc
7095	T-32/14271	HEXAGONE BOLT, D05R-011	Nos	9	9					Foc
7096	T-32/14272	HEXAGONE BOLT, D05R-013	Nos	2	2					Foc
7097	T-32/14272A	HEXAGONE BOLT, D05R-014	Nos	10	10					Foc
7098	T-32/14273	HEXAGONE BOLT, D05R-015	Nos	90	90					Foc
7099	T-32/14273A	HEXAGONE BOLT, D05R-016	Nos	8	8					Foc
7100	T-32/14274	HEXAGONE BOLT, D05R-017	Nos	8	8					Foc
7101	T-32/14276A	HEXAGONE BOLT & NUT, D05R-022	Nos	21	21					Foc
7102	T-32/14277	HEXAGONE BOLT & NUT, D05R-023	Nos	10	10					Foc
7103	T-32/14277A	HEXAGONE BOLT & NUT, D05R-024	Nos	1	1					Foc
7104	T-32/14278	HEXAGONE BOLT & NUT, D05R-025	Nos	1	1					Foc
7105	T-32/14278A	HEXAGONE BOLT & NUT, D05R-026	Nos	4	4					Foc
7106	T-32/14279	PLAIN WASHER, D05R-027	Nos	24	24					Foc
7107	T-32/14280	ADJUST BOLT, D05R-029	Nos	4	4					Foc
7108	T-32/14280A	STUD BOLT & NUT, D05R-030	Nos	4	4					Foc
7109	T-32/14281	STUD BOLT & NUT, D05R-031	Nos	3	3					Foc
7110	T-32/14284	HEXAGONE NUT, D05R-037	Nos	22	22					Foc
7111	T-32/14285	HIGH MOLICULAR COAGULANT FOR WATER PRETREAT	Nos	100	100					Foc
7112	T-32/14287A	TARTARIC ACID (FOR SLICARY)	Nos	1	1					Foc
7113	T-32/14288A	SODIUM HYDROGEN SULFATE (FOR SILICA ANALYZER)	Nos	10	10					Foc
7114	T-32/14289	SODIUM SULFATE AN HYDROUS (FOR SILICA ANALYZER)	Nos	5	5					Foc
7115	T-32/14291	QUARTZ TUBE, E17M-057A	Nos	2	2					Foc
7116	T-32/14291A	HOLLOW CATHODIC LAMP,(17PCS=ONE SET)E17M-056B	Nos	1	1					Foc
7117	T-32/14292	RECORDER CHART, E17M-057B	Nos	23	23					Foc
7118	T-32/14292A	SPACER, E17M-065	Nos	10	10					Foc
7119	T-32/14293	ABSORPTION TUB CONNECTION PACKING, E17M-069	Nos	5	5					Foc
7120	T-32/14293A	SILICONE RUBBER TUBE, 10mm/3mm, 1m, E17M-070	Nos	1	1					Foc

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7121	T-32/14294	FLARE PACKING, 3mm 20Pcs/SET, E17M-071	Nos	1	1					Foc
7122	T-32/14294A	GLASS BELL FOR BOAT COOLING STUD, E17M-066	Nos	5	5					Foc
7123	T-32/14295	BOAT COOLING STUD, E17M-067	Nos	5	5					Foc
7124	T-32/14295A	STOP PACKING, 3mm,10Pcs/SET, E17M,072	Nos	1	1					Foc
7125	T-32/14296	QUARTZ WOOL 2g, E17M-073	Nos	2	2					Foc
7126	T-32/14296A	PRINTER CHART, E17M-074	Nos	20	20					Foc
7127	T-32/14297	INK RIBBON, 5 Pcs/SET, E17M-075	Nos	1	1					Foc
7128	T-32/14297A	FLARE NUT, 3.5mm, 1SET/6Pcs E17M-076	Nos	1	1					Foc
7129	T-32/14298	Platinum Boat E 17M-068	Nos	5	5					
7130	T-32/14298A	SUFIX, 25g/BT. 1, E17M-079	Nos	5	5					Foc
7131	T-32/14299	GRANULAR SELUCER 25g/BT, 1 E17M-080	Nos	3	3					Foc
7132	T-32/14299A	ANHYDRONE, 50g/BT 1, E17M-081	Nos	5	5					Foc
7133	T-32/14300	SODA ASBOSTOS, 50g/BT,1 E17M-082	Nos	6	6					Foc
7134	T-32/14300A	STANDARD SAMPLE ANTIPYRINE, 2g/BT 1, E17M-083	Nos	4	4					Foc
7135	T-33/14301	STANDARD SAMPLE ACCTAINEL, 1D 2g.BT-1, E17M-084	Nos	5	5					Foc
7136	T-33/14302	STANDARD SAMPLE CHOLISTERED, 2g.BT-1, E17M-085	Nos	5	5					Foc
7137	T-33/14303	LIQUID SAMPLE INTRODUCING ROD, E17M-087	Nos	4	4					Foc
7138	T-33/14304	SEALING RING, E17M-034	Nos	4	4					Foc
7139	T-33/14305	DRIVE BELTS, E17M-035	Nos	4	4					Foc
7140	T-33/14306	VALVE SEAT, E17M-036	Nos	2	2					Foc
7141	T-33/14308	CORK RING GASKET FOR TEST JAR, E17M-038	Nos	6	6					Foc
7142	T-33/14309	CORK DISC FOR TEST BOTH PACKETS, E17M-039	Nos	6	6					Foc
7143	T-33/14310	THERMOMETER, E17M-040(Pmm-30+PmF31)	Nos	2	2					Foc
7144	T-33/14311	FLEXIABLE DRIVE, E17M-041	Nos	1	1					Foc
7145	T-33/14312	GAS TUBE, E17M-042	Nos	10	10					Foc
7146	T-33/14313	HEATING ELEMENT AC 110V,1.5KW, E17M-043	Nos	1	1					Foc
7147	T-33/14314	CENTRIFUGE TUBE 'E17M-044	Nos	10	10					Foc
7148	T-33/14315	MANIFOLD WITH FIVE STOP COCK 'E17M-048	Nos	2	2					Foc
7149	T-33/14317	TRAINGLE TUBE 'E17M-050	Nos	2	2					Foc
7150	T-33/14319	MANIFOLD WITHOUT COCK 'E17M-052	Nos	2	2					Foc
7151	T-33/14321	SEAL PLATE, 254X1.68,2596L, D14M-003 197	Nos	6	6					Foc
7152	T-33/14322	MAKE UP SEAL PLATE, 198	Nos	1	1					Foc

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7153	T-33/14323	WASHER BAR, 38X6t, 2660L.199	Nos	7	7					Foc
7154	T-33/14325	FLEXIABLE POLY URETHENE FOAM,SH,8,SEAL,2736L,201	Nos	7	7					Foc
7155	T-33/14326	ENVELOP POLY URETHENE COATED NYLON 930X2t 1867	Nos	1	1					Foc
7156	T-33/14327	GASKET TAPE, 70X3.2t, 30000L,203	Nos	1	1					Foc
7157	T-33/14330	CASING COARRUGATED SHEET, D02M-081	Nos	2	2					Foc
7158	T-33/14339	FLOW CONTROL VALVE , 600A, D02M-085	Nos	1	1					Foc
7159	T-33/14341	OIL SEAL, D02M-005	Nos	1	1					Foc
7160	T-33/14342	THRUST ROLLER BERAING, 81218, D02M-006	Nos	1	1					Foc
7161	T-33/14343	TAPPERED ROLLER BERAING, (SUJ2) 30317D, D02M-007	Nos	1	1					Foc
7162	T-33/14345	SPHERICAL ROLLER BERAING, (SUJ2) 23230C D02M-009	Nos	4	4					Foc
7163	T-33/14346	BOLT & NUT, D02M-019	Nos	151	151					Foc
7164	T-33/14347	BOLT & NUT, D02M-020	Nos	17	17					Foc
7165	T-33/14350	BOLT & NUT, D02M-024	Nos	234	234					Foc
7166	T-33/14351	BOLT & NUT, D02M-025	Nos	1	1					Foc
7167	T-33/14352	BOLT & NUT, D02M-026	Nos	178	178					Foc
7168	T-33/14353	BOLT & NUT, D02M-027	Nos	13	13					Foc
7169	T-33/14356	BOLT & NUT, D02M-030	Nos	11	11					Foc
7170	T-33/14357	BOLT & NUT, D02M-031	Nos	3	3					Foc
7171	T-33/14359	BOLT & NUT, D02M-033	Nos	18	18					Foc
7172	T-33/14360	BOLT & NUT, D02M-035	Nos	2	2					Foc
7173	T-33/14361	BOLT & NUT, D02M-036	Nos	2	2					Foc
7174	T-33/14362	BOLT & NUT, D02M-040	Nos	3	3					Foc
7175	T-33/14363	BOLT & NUT, D02M-041	Nos	2	2					Foc
7176	T-33/14364	BOLT , D02M-042	Nos	209	209					Foc
7177	T-33/14365	BOLT , D02M-043	Nos	102	102					Foc
7178	T-33/14366	BOLT , D02M-044	Nos	6	6					Foc
7179	T-33/14367	BOLT , D02M-045	Nos	5	5					Foc
7180	T-33/14368	FLATE HEAD BOLT & NUT, D02M-046	Nos	6	6					Foc
7181	T-33/14369	STUD BOLT & NUT, D02M-047	Nos	13	13					Foc
7182	T-33/14370	STUD BOLT & NUT, D02M-048	Nos	10	10					Foc
7183	T-33/14371	STUD BOLT & NUT, D02M-049	Nos	1	1					Foc
7184	T-33/14372	U BOLT & NUT, D02M-048	Nos	2	2					Foc

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7185	T-33/14373	TURN BUCKLE , D02M-051	Nos	2	2					Foc
7186	T-33/14374	WASHER CORRUGATED, D02M-50	Nos	1134	1134					Foc
7187	T-33/14375	WASHER D02M-53	Nos	92	92					Foc
7188	T-33/14376	WASHER D02M-54	Set	3	3					Foc
7189	T-33/14377	WASHER D02M-55	Nos	1888	1888					Foc
7190	T-33/14378	WASHER D02M-57	Nos	44	44					Foc
7191	T-33/14379	WASHER D02M-59	Nos	6	6					Foc
7192	T-33/14380	LACK 'WASHER D02M-61	Nos	15	15					Foc
7193	T-33/14381	LACK 'WASHER D02M-62	Nos	15	15					Foc
7194	T-33/14382	LACK 'WASHER D02M-63	Nos	2	2					Foc
7195	T-33/14383	LACK 'WASHER D02M-64	Nos	5	5					Foc
7196	T-33/14384	TAPER 'WASHER D02M-65	Nos	10	10					Foc
7197	T-33/14387	BOLT & NUT, D02M-069	Nos	1	1					Foc
7198	T-33/14388	BOLT , D02M-070	Nos	26	26					Foc
7199	T-33/14389	DRILL ANCHOR, D02M-071	Nos	26	26					Foc
7200	T-33/14390	SLOTTED HEAD BOLT, D02M-072	Nos	1	1					Foc
7201	T-33/14391	PLAIN WASHER, D02M-073	Nos	236	236					Foc
7202	T-33/14392	PLAIN WASHER, D02M-074	Nos	26	26					Foc
7203	T-33/14393	TAPER 'WASHER D02M-75	Nos	1	1					Foc
7204	T-33/14394	LACK 'WASHER D02M-76	Nos	209	209					Foc
7205	T-33/14395	LACK 'WASHER D02M-77	Nos	26	26					Foc
7206	T-33/14396	HIGH NUT & BOLT, D02M-078	Nos	184	184					Foc
7207	T-33/14397	DRILL ANCHOR, D02M-83	Nos	6	6					Foc
7208	T-33/14398	BOLT, D02M-084	Nos	3	3					Foc
7209	T-33/14399	BOLT WITH NUT, D02M-085	Nos	3	3					Foc
7210	T-33/14400	BOLT, D02M-086	Nos	6	6					Foc
7211	T-33/14402	GLAND PACKING, D02M-089	Nos	10	10					Foc
7212	T-33/14403	GASKET FOR CASING, D02M-093	Nos	2	2					Foc
7213	T-33/14404	GASKET FOR SLEEVE, D02M-094	Nos	2	2					Foc
7214	T-33/14405	GASKET FOR BEARING CARRER, D02M-095	Nos	12	12					Foc
7215	T-33/14406	CASE WEARING RING, D02M-090	Nos	1	1					Foc
7216	T-33/14407	CASE WEARING RING, D02M-091	Nos	1	1					Foc

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7217	T-33/14410	FAN BLADE, D02M-001	Nos	4	4					Foc
7218	T-33/14413	SUPPLY AIR FAN, G23M-011	Nos	1	1					Foc
7219	T-33/14414	COOLING TUBE, D01M-001	Nos	120	120					Foc
7220	T-33/14415	BOLT FOR PROTECTING TUBE, G23M-003-40	Nos	12	12					Foc
7221	T-33/14416	O RING, G23M-003-41	Nos	1	1					Foc
7222	T-33/14417	UPPER METAL WITH CLAMPING METAL, G23M-004-2	Nos	1	1					Foc
7223	T-33/14418	SHIELD, G23M-004-3	Nos	1	1					Foc
7224	T-33/14419	MOUNTING FLAGE, G23M-004-4	Nos	1	1					Foc
7225	T-33/14420	LOWER METAL, G23M-004-5	Nos	1	1					Foc
7226	T-33/14421	RESERVER, G23M-004-6	Nos	1	1					Foc
7227	T-33/14422	PROTECTING TUBE, G23M-004-7	Nos	1	1					Foc
7228	T-33/14423	CONDUCTOR ROD, G23M-004-8	Nos	1	1					Foc
7229	T-33/14424	OIL SEAL METAL A 'G23M-004-9	Nos	1	1					Foc
7230	T-33/14425	OIL SEAL METAL B 'G23M-004-10	Nos	1	1					Foc
7231	T-33/14426	SEAL PIPE A 'G23M-004-11	Nos	1	1					Foc
7232	T-33/14427	SEAL PIPE B 'G23M-004-12	Nos	1	1					Foc
7233	T-33/14428	REXE TAPE 'G23M-004-13	Nos	1	1					Foc
7234	T-33/14429	RCEPR TAPE 'G23M-004-14	Nos	1	1					Foc
7235	T-33/14430	SI, HS, TUBE ST, 500DG 'G23M-004-15	Nos	1	1					Foc
7236	T-33/14431	SI, HS, TUBE, ST800 DG 'G23M-004-16	Nos	1	1					Foc
7237	T-33/14432	PTFE TAPE 9542 'G23M-004-17	Nos	1	1					Foc
7238	T-33/14433	RPTFE TAPE 'G23M-004-18	Nos	2	2					Foc
7239	T-33/14434	PE,HS, TUBE 'G23M-004-19	Nos	1	1					Foc
7240	T-33/14436	SHIELD TAPE 'G23M-004-21	Nos	6	6					Foc
7241	T-33/14437	PTFE TAPE, 920 'G23M-004-22	Nos	1	1					Foc
7242	T-33/14438	TAPE 'G23M-004-23	Nos	2	2					Foc
7243	T-33/14439	ARALDITE & HARDNER 'G23M-004-24	Nos	1	1					Foc
7244	T-33/14442	VUL-CO TAPE 'G23M-004-27	Nos	3	3					Foc
7245	T-33/14443	PVC ADHESIVE TAPE 'G23M-004-28	Nos	1	1					Foc
7246	T-33/14444	LEAD SPACER 'G23M-004-29	Nos	2	2					Foc
7247	T-33/14445	WIPING SOLDER 'G23M-004-30	Nos	46	46					Foc
7248	T-33/14446	CONDUCTING SOLDER 'G23M-004-31	Nos	5	5					Foc

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7249	T-33/14447	ALLUMINIUM SOLDER 'G23M-004-32	Nos	2	2					Foc
7250	T-33/14448	CONDUCER CANE 'G23M-004-33	Nos	1	1					Foc
7251	T-33/14449	SILICONE OIL (A) 162Kg 'G23M-004-34	Nos	1	1					Foc
7252	T-33/14450	SILICONE OIL (B) 18 Kg 'G23M-004-35	Nos	1	1					Foc
7253	T-33/14451	EARTH CONTACT LEAD 'G23M-004-36	Nos	4	4					Foc
7254	T-33/14452	SPARE SCREW 'G23M-004-37	Nos	1	1					Foc
7255	T-33/14453	RIGID TERMINAL 'G23M-004-38	Nos	1	1					Foc
7256	T-33/14454	BOLT FOR LOUVER METAL 'G23M-004-39	Nos	12	12					Foc
7257	T-33/14456	O RING 'G23M-004-41	Nos	1	1					Foc
7258	T-33/14457	JIG FOR CONDUCER CANE, 'G23M-004-42	Nos	1	1					Foc
7259	T-33/14458	LEAK CHUK JIG 'G23M-004-43	Nos	1	1					Foc
7260	T-33/14459	UPPER METAL WITH CLAMPING METAL 'G23M-005-1	Nos	1	1					Foc
7261	T-33/14460	SHIELD 'G23M-005-02	Nos	1	1					Foc
7262	T-33/14461	CONTACT LEAD 'G23M-005-03	Nos	1	1					Foc
7263	T-33/14462	EARTH SHIELD 'G23M-005-4	Nos	1	1					Foc
7264	T-33/14463	MOUNTRY FLANGE ADAPTOR 'G23M-005-5	Nos	1	1					Foc
7265	T-33/14464	INSULATING FLANGE 'G23M-005-6	Nos	1	1					Foc
7266	T-33/14465	LOWER METAL 'G23M-005-7	Nos	1	1					Foc
7267	T-33/14467	PROTECTING TUBE 'G23M-005-9	Nos	1	1					Foc
7268	T-33/14468	CONDUCTOR ROD, G23M-005-10	Nos	1	1					Foc
7269	T-33/14469	OIL SEAL METAL (A) 'G23M-005-11	Nos	1	1					Foc
7270	T-33/14470	OIL SEAL METAL (B) 'G23M-005-12	Nos	1	1					Foc
7271	T-33/14471	SEAL PIPE (A) 'G23M-005-13	Nos	1	1					Foc
7272	T-33/14472	SEAL PIPE (B) 'G23M-005-14	Nos	1	1					Foc
7273	T-33/14473	RCXE TAPE AND RIXE TAPE 'G23M-005-15	Nos	1	1					Foc
7274	T-33/14474	RCPER TAPE & RIEPR TAPE 'G23M-005-16	Nos	1	1					Foc
7275	T-33/14475	SI-HS-TUBE 'G23M-005-17	Nos	1	1					Foc
7276	T-33/14476	SI-HS-TUBE ST-800 'G23M-005-18	Nos	1	1					Foc
7277	T-33/14477	PIPE TAPE 'G23M-005-19	Nos	5	5					Foc
7278	T-33/14479	PE-HS-TAPE 'G23M-005-21	Nos	1	1					Foc
7279	T-33/14481	SHIELD MESH TAPE 'G23M-005-23	Nos	6	6					Foc
7280	T-33/14483	TAPE (GLASS FIBER) 'G23M-005-25	Nos	3	3					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7281	T-33/14484	ARALDITE & HARDNER 'G23M-005-26	Nos	1	1					Foc
7282	T-33/14489	LEAD SPACER 'G23M-005-31	Nos	2	2					Foc
7283	T-33/14490	WIPING SOLDER 'G23M-005-32	Nos	48	48					Foc
7284	T-33/14491	CONDUCTING SOLDER 'G23M-005-33	Nos	5	5					Foc
7285	T-33/14492	ALUMINIUM SOLDER 'G23M-005-34	Nos	2	2					Foc
7286	T-33/14493	CONDENCER CANE 'G23M-005-35	Nos	1	1					
7287	T-33/14494	SILICON OIL 162Kg 'G23M-005-36	Nos	1	1					Foc
7288	T-33/14495	SILICON OIL 18Kg 'G23M-005-37	Nos	1	1					Foc
7289	T-33/14496	EARTH CONTACT LEAD 'G23M-005-	Nos	4	4					Foc
7290	T-33/14497	SPARE SCREW 'G23M-005-39	Set	1	1					Foc
7291	T-33/14498	RIGID TERMINAL 'G23M-005-40	Nos	1	1					Foc
7292	T-33/14499	BOLT FOR ADOPTER 'G23M-005-41	Nos	12	12					Foc
7293	T-33/14500	BOLT FOR LOWER METAL 'G23M-005-42	Nos	12	12					Foc
7294	T-34/14501	O RING 'G23M-005-44	Nos	1	1					Foc
7295	T-34/14501A	UPPER METAL WITH CLAMPING METAL 'G23M-006-1	Nos	1	1					Foc
7296	T-34/14502	SHIELD 'G23M-006-2	Nos	1	1					Foc
7297	T-34/14502A	CONTACT LEAD 'G23M-006-3	Nos	1	1					Foc
7298	T-34/14503	EARTH SHIELD 'G23M-006-4	Nos	1	1					Foc
7299	T-34/14503A	MOUNTING FLANGE (ADOPTER) 'G23M-006-5	Nos	1	1					Foc
7300	T-34/14504	INSULATING FLANGE 'G23M-006-6	Nos	1	1					Foc
7301	T-34/14504A	LOWER METAL 'G23M-006-7	Nos	1	1					Foc
7302	T-34/14505	RESERVER 'G23M-006-8	Nos	1	1					Foc
7303	T-34/14505A	PROTECTING TUBE 'G23M-006-9	Nos	1	1					Foc
7304	T-34/14506	CONDUCTOR ROD 'G23M-006-10	Nos	1	1					Foc
7305	T-34/14506A	OIL SEAL METAL 'G23M-006-11	Nos	1	1					Foc
7306	T-34/14507	OIL SEAL METAL 'G23M-006-12	Nos	1	1					Foc
7307	T-34/14507A	SEAL PIPE A 'G23M-006-13	Nos	1	1					Foc
7308	T-34/14508	SEAL PIPE B 'G23M-006-14	Nos	1	1					Foc
7309	T-34/14508A	RCXE TAPE / RIXE TAPE 'G23M-006-15	Nos	1	1					Foc
7310	T-34/14509	RCEPR, TAPE/RIEPR TAPE 'G23M-006-16	Nos	1	1					Foc
7311	T-34/14509A	SI, HS, TUBE 'G23M-006-17	Nos	1	1					Foc
7312	T-34/14510	SI. HS, TUBE 'G23M-006-18	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
7313	T-34/14510A	PTFE TAPE 'G23M-006-19	Nos	2	2					Foc
7314	T-34/14511A	PEHS, TAPE 'G23M-006-21	Nos	1	1					Foc
7315	T-34/14512A	SHIELD TAPE 'G23M-006-23	Nos	6	6					Foc
7316	T-34/14515	VUL-CO TAPE 'G23M-006-29	Nos	3	3					Foc
7317	T-34/14515A	PVC ADHESIVE TAP 'G23M-006-30	Nos	1	1					Foc
7318	T-34/14516	LEAD SPACER 'G23M-006-31	Nos	2	2					Foc
7319	T-34/14516A	WIPING SOLDER 'G23M-006-32	Nos	48	48					Foc
7320	T-34/14517	CONDUCTING SOLDER 'G23M-006-33	Nos	5	5					Foc
7321	T-34/14517A	ALUMINIUM SOLDER 'G23M-006-34	Nos	2	2					Foc
7322	T-34/14518	CONDUCER CANE 'G23M-006-35	Nos	1	1					Foc
7323	T-34/14518A	SILICON OIL A 'G23M-006-36	Nos	1	1					Foc
7324	T-34/14519	SILICON OIL B 'G23M-006-37	Nos	1	1					Foc
7325	T-34/14519A	EARTH CONTACT LEAD 'G23M-006-38	Nos	4	4					Foc
7326	T-34/14520	SPARE SCREW 'G23M-006-39	Nos	4	4					Foc
7327	T-34/14520A	RIGID TERMINAL 'G23M-006-40	Nos	1	1					Foc
7328	T-34/14521	BOLT FOR ADOPTER 'G23M-006-41	Nos	12	12					Foc
7329	T-34/14521A	BOLT FOR LOWER METAL 'G23M-006-42	Nos	12	12					Foc
7330	T-34/14522	BOLT FOR PROTECTING TUBE 'G23M-006-43	Nos	12	12					Foc
7331	T-34/14522A	O RING 'G23M-006-44	Nos	1	1					Foc
7332	T-34/14523	UPPER METAL WITH CLAMPING METAL 'G23M-003-2	Nos	1	1					Foc
7333	T-34/14523A	SHIELD 'G23M-003-3	Nos	1	1					Foc
7334	T-34/14524	MOUNTING FLANGE 'G23M-003-4	Nos	1	1					Foc
7335	T-34/14524A	LOWER METAL 'G23M-003-5	Nos	1	1					Foc
7336	T-34/14525	RESERVER 'G23M-003-6	Nos	1	1					Foc
7337	T-34/14525A	PROTECTING TUBE 'G23M-003-7	Nos	1	1					Foc
7338	T-34/14526	CONDUCTOR ROD 'G23M-003-8	Nos	1	1					Foc
7339	T-34/14526A	OIL SEAL METAL A 'G23M-003-9	Nos	1	1					Foc
7340	T-34/14527	OIL SEAL METAL B 'G23M-003-10	Nos	1	1					Foc
7341	T-34/14527A	SEAL PIPE A 'G23M-003-11	Nos	1	1					Foc
7342	T-34/14528	SEAL PIPE B 'G23M-003-12	Nos	1	1					Foc
7343	T-34/14528A	RCXE/ RIXE TAP 'G23M-003-13	Nos	1	1					Foc
7344	T-34/14529	RCEPR/RIEPR, TAPE 'G23M-003-14	Nos	1	1					Foc

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7345	T-34/14529A	SI, HS, TUBE 'G23M-003-15	Nos	1	1					Foc
7346	T-34/14530	SI,HS,TUBE 'G23M-003-16	Nos	1	1					Foc
7347	T-34/14530A	PTEE TAPE, 'G23M-003-17	Nos	5	5					Foc
7348	T-34/14531	R-PTFE TAPE 'G23M-003-18	Nos	1	1					Foc
7349	T-34/14531A	PE, HS, TUBE 'G23M-003-19	Nos	1	1					Foc
7350	T-34/14532A	SHIELD TAPE 'G23M-003-21	Nos	6	6					Foc
7351	T-34/14533	PTFE TAPE 'G23M-003-22	Nos	7	7					Foc
7352	T-34/14533A	TAPE 'G23M-003-23	Nos	3	3					Foc
7353	T-34/14535A	VUL-CO TAPE 'G23M-003-27	Nos	3	3					Foc
7354	T-34/14536	PVC ADHESIVE TAPE 'G23M-003-28	Nos	1	1					Foc
7355	T-34/14536A	LEAD SPACER 'G23M-003-29	Nos	2	2					Foc
7356	T-34/14537	WIPING SOLDER 'G23M-003-30	Nos	48	48					Foc
7357	T-34/14537A	CONDUCTING SOLDER 'G23M-003-31	Nos	5	5					Foc
7358	T-34/14538	ALUMINIUM SOLDER 'G23M-003-32	Nos	2	2					Foc
7359	T-34/14538A	CONDENCER CANE 'G23M-003-33	Nos	1	1					Foc
7360	T-34/14539	SILICONE OIL 162Kg 'G23M-003-34	Nos	1	1					Foc
7361	T-34/14539A	SILICONE OIL 18Kg 'G23M-003-35	Nos	1	1					Foc
7362	T-34/14540	EARTH CONTACT LEAD 'G23M-003-36	Nos	4	4					Foc
7363	T-34/14540A	SPARE SCREW 'G23M-003-37	Nos	4	4					Foc
7364	T-34/14541	RIGID TERMINAL 'G23M-003-38	Nos	1	1					Foc
7365	T-34/14541A	BOLT FOR LOWER METAL 'G23M-003-39	Nos	12	12					Foc
7366	T-34/14543A	BC,DRY CHEMICAL POWDER FOR FIRE FIGHTING 20Kg	Can	77	77					Foc
7367	T-34/14547	SL - MA Module For 8 Extenshion G17M-001	Nos	1	1					
7368	T-34/14547A	Trunk Module For 4 Junction Line G17M-002	Nos	1	1					
7369	T-34/14548	Cup G17M-003	Set	1	1					
7370	T-34/14548A	Flopy Disc Drive G17M-004	Nos	1	1					
7371	T-34/14550	BATTERY CELL, G17M-007	Nos	4	4					Foc
7372	T-34/14551	INDICATOR, A20M-901	Nos	1	1					Foc
7373	T-34/14551A	INDICATOR, A20M-902	Nos	1	1					Foc
7374	T-34/14552	INDICATOR, A20M-903	Nos	1	1					Foc
7375	T-34/14552A	INK CARTRIDGE, A20M-914	Nos	50	50					Foc
7376	T-34/14553	INK CARTRIDGE, A20M-915	Nos	110	110					Foc

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1	2	3	4	5	6	7	8	10	11	12
7377	T-34/14553A	INK CARTRIDGE, A20M-916	Nos	100	100					Foc
7378	T-34/14554	PLATE FORM DWG 90-257-7-1	Nos	1	1					Foc
7379	T-34/14555	PLATE FORM 180-257-7-4	Nos	1	1					Foc
7380	T-34/14555A	PLATE FORM 270-257-7-6	Nos	1	1					Foc
7381	T-34/14558	WEAK AMION RESIN, E07M-004	Kg	50	50					Foc
7382	T-34/14559	WEAK ACID RESIN, E07M-006	Ltr.	33	33					Foc
7383	T-34/14560	WEAK CATION RESIN, E07R-002	Ltr.	100	100					Foc
7384	T-34/14561	WEAK AMION RESIN, E07R-004	Nos	700	700					Foc
7385	T-34/14563	2-WAY SOLENOID VALVE, E07M-297	Nos	1	1					Foc
7386	T-34/14563A	3-WAY SOLENOID VALVE, E07M-298	Nos	1	1					Foc
7387	T-34/14564	HEATER E07M-300	Nos	1	1					Foc
7388	T-34/14564A	PRE AMPLIFIER E07M-305	Nos	1	1					Foc
7389	T-34/14565	TEMP: CONTROLLER E07M-306	Nos	1	1					Foc
7390	T-34/14565A	STIRRER MOTOR, E07M-307	Nos	1	1					Foc
7391	T-34/14566	PUMP MOTOR, E07M-308	Nos	1	1					Foc
7392	T-34/14566A	GAUGE GLASS E05M-062	Nos	8	8					Foc
7393	T-34/14567	DIAPHRAGM FROM CONTROL VALVE, E05M-063	Nos	18	18					Foc
7394	T-34/14567A	DIAPHRAGM FROM CONTROL VALVE, E05M-064	Nos	4	4					Foc
7395	T-34/14568	DIAPHRAGM FROM CONTROL VALVE, E05M-065	Nos	6	6					Foc
7396	T-34/14568A	DIAPHRAGM FROM CONTROL VALVE, E05M-066	Nos	4	4					Foc
7397	T-34/14570	MOTOR FOR COOLING TOWER FAN, F02M-323	Nos	1	1					Foc
7398	T-34/14570A	HARD DRAWN ALLUMITION STANDARD, G22M-001 COND	Nos	50	50					Foc
7399	T-34/14571	CATHODIC 2 1/2, G24R-001	Nos	4	4					Foc
7400	T-34/14571A	ANODE, G24R-002	Nos	2	2					Foc
7401	T-34/14572	GASKET G24R-003	Nos	2	2					Foc
7402	T-34/14572A	TELEME EAINGUE G24R-005	Nos	5	5					Foc
7403	T-34/14573	FLOURESCENT, G24R-006	Nos	2	2					Foc
7404	T-34/14573A	FUSE, 6AMP: G24R-007	Nos	6	6					Foc
7405	T-34/14574	FUSE, 10AMP: G24R-008	Nos	4	4					Foc
7406	T-34/14574A	INDICATOR, A20M-900	Nos	1	1					Foc
7407	T-34/14575	CHART PAPPER, C03R-016	Nos	103	103					Foc
7408	T-34/14575A	SPARE PARTS BOX F01M-318	Nos	95	95					Foc

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1	2	3	4	5	6	7	8	10	11	12
7409	T-34/14576	DIAPHRAGM, E08M-012	Nos	1	1					Foc
7410	T-34/14576A	GASKET, E08M-013	Nos	1	1					Foc
7411	T-34/14577	JUMPER SLEEVE, G22M-002	Nos	5	5					Foc
7412	T-34/14577A	BEARING UNIT, I03R-010	Nos	3	3					Foc
7413	T-34/14578	LUBE OIL FILTER, G14M-011	Nos	4	4					Foc
7414	T-34/14580	SPHEREL WOUND GASKET, D09M-006	Nos	4	4					Foc
7415	T-34/14580A	SPHEREL WOUND GASKET, D09M-009	Nos	1	1					Foc
7416	T-34/14582	BACK UP RING , D09M-014	Nos	1	1					Foc
7417	T-34/14582A	O RING, D09M-015	Nos	2	2					Foc
7418	T-34/14583A	O RING, D09M-017	Nos	2	2					Foc
7419	T-34/14584	METAL RING , D09M-018	Nos	4	4					Foc
7420	T-34/14585	THURST BEARING ADJUSTING LEVER , D09M-022	Nos	6	6					Foc
7421	T-34/14587A	ZINC ANODE	Nos	19	19					Foc
7422	T-34/14588	THERMIT CAPSULE	Nos	53	53					Foc
7423	T-34/14588A	FLINT FUN	Nos	2	2					Foc
7424	T-34/14589	THERMIT MOLD	Nos	2	2					Foc
7425	T-34/14589A	HANDY CAP	Nos	17	17					Foc
7426	T-34/14590	POLYTHELENE TAPE	Nos	5	5					Foc
7427	T-34/14590A	FUSE, E17M-009	Nos	5	5					Foc
7428	T-34/14591	FUSE, E17M-013	Nos	5	5					Foc
7429	T-34/14591A	FUSE, E17M-021A	Nos	2	2					Foc
7430	T-34/14592	LAMP, E17M-021B	Nos	5	5					Foc
7431	T-34/14592A	CLAMP, E17M-022	Nos	1	1					Foc
7432	T-34/14593	BOTTLE HOLDER, E17M-023	Nos	1	1					Foc
7433	T-34/14593A	FUSE, E17M-025	Nos	2	2					Foc
7434	T-34/14594	LAMP, E17M-026	Nos	5	5					Foc
7435	T-34/14594A	VALVE COCK, E17M-091	Nos	2	2					Foc
7436	T-34/14595	STIRRER, E17M-029	Nos	1	1					Foc
7437	T-34/14595A	FUSE, E17M-045	Nos	2	2					Foc
7438	T-34/14596	LAMP, E-046	Nos	2	2					Foc
7439	T-34/14596A	CARBO BRUSH E17M-047	Nos	5	5					Foc
7440	T-34/14597	GLASS TUBE, E17M-044	Nos	4	4					Foc

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1	2	3	4	5	6	7	8	10	11	12
7441	T-34/14597A	FILTER, E17M-059	Nos	5	5					Foc
7442	T-34/14598	D2 LAMP E17M-058	Nos	2	2					Foc
7443	T-34/14598A	FUSE, E17M-004	Nos	2	2					Foc
7444	T-34/14599	SCRUBER, E17M-090-1	Nos	2	2					Foc
7445	T-34/14599A	CONVERTER, E17M-090-2	Nos	2	2					Foc
7446	T-34/14600	SWITCH LIGHT CONTROL, E18R-003	Nos	1	1					Foc
7447	T-34/14600A	SWITCH LIMIT VACUM PUMP MOTOR, E18R-004	Nos	2	2					Foc
7448	T-35/14601	DIODE GLOW PLUG RELAY, E18R-008	Nos	1	1					Foc
7449	T-35/14601A	SWITCH LIMIT STOP LAMP, E18R-009	Nos	1	1					Foc
7450	T-35/14602	SWITCH NATURAL, E18R-010	Nos	1	1					Foc
7451	T-35/14602A	SWITCH WORKING LAMP, E18R-012	Nos	2	2					Foc
7452	T-35/14603	BULB, 28V, 18R-013	Nos	6	6					Foc
7453	T-35/14603A	VALVE SOLENOID BUTTON ASSY:, E18R-015	Nos	1	1					Foc
7454	T-35/14604	BRUSH ROTARY ASSY: E18R-020	Nos	1	1					Foc
7455	T-35/14604A	FUSE 15A, E18R-024	Nos	15	15					Foc
7456	T-35/14605	COIL SPRING C0IR-248	Nos	1	1					Foc
7457	T-35/14606	SRING WASHER C0IR-580	Nos	8	8					Foc
7458	T-35/14607	BOLT, C0IR-582	Nos	8	8					Foc
7459	T-35/14607A	SPRING WASHER C0IR-583	Nos	8	8					Foc
7460	T-35/14609A	O RING, 'C0IR-587	Nos	2	2					Foc
7461	T-35/14610A	O RING, 'C0IR-589	Nos	2	2					Foc
7462	T-35/14612	BOLT, C0IR-592	Nos	8	8					Foc
7463	T-35/14612A	SPRING WASHER C0IR-593	Nos	8	8					Foc
7464	T-35/14613A	SPRING WASHER C0IR-595	Nos	8	8					Foc
7465	T-35/14614A	SPRING WASHER C0IR-597	Nos	8	8					Foc
7466	T-35/14615	BOLT, C0IR-598	Nos	6	6					Foc
7467	T-35/14615A	SPRING WASHER C0IR-599	Nos	6	6					Foc
7468	T-35/14616A	STUD BOLT, C0IR-601	Nos	8	8					Foc
7469	T-35/14617	NUT, C0IR-602	Nos	8	8					Foc
7470	T-35/14617A	SPRING WASHER C0IR-603	Nos	8	8					Foc
7471	T-35/14618	NUT, C0IR-604	Nos	2	2					Foc
7472	T-35/14618A	SPRING WASHER C0IR-605	Nos	2	2					Foc

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7473	T-35/14619A	BOLT 'C0IR-607	Nos	6	6					Foc
7474	T-35/14620	SPRING WASHER C0IR-608	Nos	6	6					Foc
7475	T-35/14621	SPRING WASHER C0IR-610	Nos	8	8					Foc
7476	T-35/14621A	BEARING OF HDP MOTOR, 6212C3E- F02M-307	Nos	2	2					Foc
7477	T-35/14622A	INDICATOR LAMP, D16M-010	Nos	2	2					Foc
7478	T-35/14623	INDICATOR LAMP, E02M-015	Nos	2	2					Foc
7479	T-35/14623A	INDICATOR LAMP, E02M-10	Nos	2	2					Foc
7480	T-35/14624	CLOSE AND TRIP COIL, G21M-004	Nos	4	4					Foc
7481	T-35/14624A	O RING E19M-046	Nos	1	1					Foc
7482	T-35/14625A	STEM PACKING SET, C0IM-908	Nos	20	20					Foc
7483	T-35/14626	BOX PACKING, C0IM-909	Nos	20	20					Foc
7484	T-35/14626A	STUD BOLT WITH NUT, M12X40L, D01M-015	Nos	16	16					Foc
7485	T-35/14627A	STAINLESS STEEL STUD BOLT WITH NUT WASHER & SP	Nos	12	12					Foc
7486	T-35/14628	BORDING CABLE, D0IM-018	Nos	10	10					Foc
7487	T-35/14628A	BOLT WITH PLAIN WASHER & SPRING WASHER, M6X10L,	Nos	20	20					Foc
7488	T-35/14629A	RUBBER CUSHION, D0IM-021	Nos	12	12					Foc
7489	T-35/14630	ZINC REFERENCE ELECTRODE, D0IM-022	Nos	4	4					Foc
7490	T-35/14630A	H2 GAS REDUCING VALVE, G03M-200	Nos	1	1					Foc
7491	T-35/14631	THERMAL RELAY, E0IM-398	Nos	5	5					Foc
7492	T-35/14631A	GASKET, J05M-013	Nos	4	4					Foc
7493	T-35/14632	RIBBON CASSETER FOR RECORDER, C03M-612	Nos	4	4					Foc
7494	T-35/14632A	CHART FOR RECORDER, C03M-614	Nos	9	9					Foc
7495	T-35/14633A	PRESSURE SWITCH LOW, G24R-010	Nos	1	1					Foc
7496	T-35/14634	ADHESIVE, D14M-008	Nos	3	3					Foc
7497	T-35/14635	RIBBON CASSET RECORDER, C03R-006	Nos	35	35					Foc
7498	T-35/14635A	FUEL INJECTION VALVE, E9M-018	Nos	10	10					Foc
7499	T-35/14636	INLET VALVE ASSY: E09M-019	Nos	5	5					Foc
7500	T-35/14636A	EXHAUST VALVE ASSY: E09M-020	Nos	5	5					Foc
7501	T-35/14637	GLAND PACKING FOR PUMP, E09M-022	Nos	10	10					Foc
7502	T-35/14637A	LAMP FOR OPERATION AND ANNUNCIATOR, E09M-026	Nos	3	3					Foc
7503	T-35/14639	GLAND PACKING, E04M-076	Nos	4	4					Foc
7504	T-35/14640A	LOCK, Z607-32(50MM)	Nos	2	2					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7505	T-35/14641A	TOP HOLDER, , Z607-98(T.T.R-10)	Nos	1	1					Foc
7506	T-35/14642	TOP HOLDER, , Z607-99(13)	Nos	1	1					Foc
7507	T-35/14642A	HANDLE FOR DISC (20mm) Z607-100	Nos	1	1					Foc
7508	T-35/14643	HANDLE FOR DISC (25mm) Z607-101	Nos	1	1					Foc
7509	T-35/14643A	HANDLE FOR DISC (38mm) Z607-102	Nos	1	1					Foc
7510	T-35/14644	HANDLE FOR DISC (50mm) Z607-103	Nos	1	1					Foc
7511	T-35/14644A	STAIR NOZING RUBBER, 35X25mm	Nos	1	1					Foc
7512	T-35/14645	HALF THREADING ROD, 8X65mm	Nos	28	28					Foc
7513	T-35/14645A	HALF THREADING ROD, 8X920mm	Nos	55	55					Foc
7514	T-35/14646	V-220T-TYPE-A	Nos	251	251					Foc
7515	T-35/14646A	MAIN HOLE COVER, 600A	Nos	18	18					Foc
7516	T-35/14647	CUT SCREW, 6X25	Nos	525	525					Foc
7517	T-35/14647A	Car Pluge 8 x 25	Nos	250	250					Foc
7518	T-35/14648	Hatch Frame 500x500	Nos	20	20					
7519	T-35/14648A	Glass Wood Solution 3Kg	Nos	4	4					
7520	T-35/14649	Harzing Rod Chig	Nos	145	145					
7521	T-35/14649A	Spacer Nickel	Nos	950	950					
7522	T-35/14650	HT BOLT M16X45	Nos	90	90					Foc
7523	T-35/14650A	HT BOLT M16X50	Nos	30	30					Foc
7524	T-35/14651	HT BOLT M22X50	Nos	265	265					Foc
7525	T-35/14651A	HT BOLT M22X55	Nos	28	28					Foc
7526	T-35/14652	HT BOLT M22X60	Nos	8	8					Foc
7527	T-35/14652A	HT BOLT M22X65	Nos	18	18					Foc
7528	T-35/14653	HT BOLT M22X70	Nos	90	90					Foc
7529	T-35/14654	HT BOLT M22X85	Nos	4	4					Foc
7530	T-35/14654A	HT BOLT M22X90	Nos	15	15					Foc
7531	T-35/14655A	HT BOLT M22X110	Nos	24	24					Foc
7532	T-35/14656A	HEX: BOLT M16X40	Nos	49	49					Foc
7533	T-35/14657	HEX: BOLT M22X50	Nos	27	27					Foc
7534	T-35/14657A	ELBOW BW SGP-15AX90 degree	Nos	2	2					Foc
7535	T-35/14658	ELBOW BW SGP-25AX45 degree	Nos	8	8					Foc
7536	T-35/14660	ELBOW BW SGP-40AX90 degree	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
7537	T-35/14660A	ELBOW BW SGP-50AX90 degree	Nos	47	47					Foc
7538	T-35/14661A	ELBOW BW SGP-65AX90 degree	Nos	39	39					Foc
7539	T-35/14662	ELBOW BW SGP-65AX45 degree	Nos	2	2					Foc
7540	T-35/14662A	ELBOW BW SGP-80AX90 degree	Nos	15	15					Foc
7541	T-35/14663	ELBOW BW SGP-80AX90 degree	Nos	1	1					Foc
7542	T-35/14663A	ELBOW BW SGP-80AX45 degree	Nos	5	5					
7543	T-35/14664	ELBOW BW SGP-100AX45 degree	Nos	40	40					Foc
7544	T-35/14665	ELBOW BW SGP-125AX90 degree	Nos	2	2					Foc
7545	T-35/14671A	ELBOW BW STPT 38, 65AX90 degree	Nos	1	1					Foc
7546	T-35/14672	ELBOW BW STPT 38, 65AX90 degree	Nos	2	2					Foc
7547	T-35/14672A	ELBOW BW STPT 38, 65AX45 degree	Nos	3	3					Foc
7548	T-35/14673	ELBOW BW STPT 38, 80AX90 degree	Nos	42	42					Foc
7549	T-35/14674	ELBOW BW STPT 38, 125AX90 degree	Nos	3	3					Foc
7550	T-35/14675	ELBOW BW STPT 38, 15AX90 degree	Nos	1	1					Foc
7551	T-35/14676	ELBOW BW STPT 38, 40AX90 degree	Nos	4	4					Foc
7552	T-35/14676A	ELBOW BW STPT 38, 80AX90 degree	Nos	20	20					Foc
7553	T-35/14677A	ELBOW BW STPT 38, 150AX90 degree	Nos	3	3					Foc
7554	T-35/14678	ELBOW BW STPT 38, 80AX45 degree	Nos	3	3					
7555	T-35/14679A	ELBOW BW STPT 38, 32AX90 degree	Nos	3	3					Foc
7556	T-35/14680	ELBOW BW STPT 38, 32AX45 degree	Nos	6	6					Foc
7557	T-35/14680A	ELBOW BW STPT 38, 40AX90 degree	Nos	4	4					Foc
7558	T-35/14681	ELBOW BW STPT 38, 40AX45 degree	Nos	6	6					Foc
7559	T-35/14682	ELBOW BW STPT 38, 50AX45 degree	Nos	2	2					Foc
7560	T-35/14683A	ELBOW BW STPT 38, 100AX45 degree	Nos	4	4					Foc
7561	T-35/14685A	ELBOW BW SUS 304, 150AX90 degree	Nos	12	12					Foc
7562	T-35/14686	ELBOW BW SUS 304, 150AX90 degree	Nos	11	11					Foc
7563	T-35/14687	ELBOW BW SUS 316, 100AX45 degree	Nos	1	1					
7564	T-35/14687A	ELBOW BW SUS 316, 40AX45 degree	Nos	3	3					Foc
7565	T-35/14689	ELBOW BW SUS 316, 100AX45 degree	Nos	5	5					Foc
7566	T-35/14689A	ELBOW BW SUS 316, 150AX45 degree	Nos	1	1					Foc
7567	T-35/14690A	ELBOW BW SUS 316, 32AX90 degree	Nos	2	2					Foc
7568	T-35/14691	ELBOW BW GAL-65AX90 degree	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
7569	T-35/14691A	ELBOW BW GAL-80AX90 degree	Nos	2	2					Foc
7570	T-35/14692	ELBOW BW GAL-125AX90 degree	Nos	13	13					
7571	T-35/14692A	ELBOW BW GAL-150AX90 degree	Nos	2	2					
7572	T-35/14693A	TEE BW SGP, 50A	Nos	13	13					
7573	T-35/14694	TEE BW SGP, 65A	Nos	4	4					Foc
7574	T-35/14694A	TEE BW SGP, 80A	Nos	2	2					
7575	T-35/14695A	TEE BW SGP, 125A	Nos	1	1					
7576	T-35/14696	TEE BW SGP, 65X50A	Nos	8	8					Foc
7577	T-35/14696A	TEE BW SGP, 80X40A	Nos	1	1					Foc
7578	T-35/14697A	TEE BW SGP, 100X65A	Nos	1	1					
7579	T-35/14698	TEE BW SGP, 125AX50A	Nos	3	3					
7580	T-35/14698A	TEE BW SGP, 125AX80A	Nos	5	5					
7581	T-35/14699	TEE BW SGP, 150X65A	Nos	3	3					Foc
7582	T-35/14699A	TEE BW SGP, 150X100	Nos	4	4					Foc
7583	T-35/14700	TEE WBPT - 38,65x340	Nos	2	2					Foc
7584	T-35/14700A	TEE BW PT-38-80A	Nos	3	3					Foc
7585	T-36/14701	TEE BW PT-38-20X15A	Nos	1	1					Foc
7586	T-36/14701A	TEE BW PT-38-80X50A	Nos	4	4					Foc
7587	T-36/14702A	TEE BW SUS-304-100A	Nos	1	1					Foc
7588	T-36/14703	TEE BW SUS-304-150A	Nos	4	4					
7589	T-36/14703A	TEE BW SUS-304-100x65A	Nos	3	3					
7590	T-36/14704	TEE BW SUS-304-100x80A	Nos	1	1					
7591	T-36/14704A	TEE BW SUS-304-150x65A	Nos	4	4					
7592	T-36/14705	TEE BW SUS-304-150x100A	Nos	3	3					
7593	T-36/14706	TEE BW GAL150A	Nos	1	1					
7594	T-36/14706A	TEE BW GAL65Ax50	Nos	1	1					
7595	T-36/14707	TEE BW GAL100x80	Nos	1	1					
7596	T-36/14707A	TEE BW GAL65x40A	Nos	4	4					
7597	T-36/14708	REDUCER BW SGP C0M 125X100	Nos	9	9					Foc
7598	T-36/14708A	REDUCER BW SGP C0M 150X100	Nos	18	18					Foc
7599	T-36/14709	REDUCER BW SGP C0M Ecc65X40	Nos	1	1					
7600	T-36/14710A	REDUCER BW SGP C0M 150X100	Nos	2	2					Foc

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7601	T-36/14711	REDUCER BW SGP C0M Ecc20X100	Nos	2	2					Foc
7602	T-36/14711A	REDUCER BW SGP ECE 300X150	Nos	1	1					Foc
7603	T-36/14712	REDUCER BW P7-38CON 65X40	Nos	1	1					Foc
7604	T-36/14713	REDUCER BW P7-38 ECE 80X65	Nos	2	2					Foc
7605	T-36/14714	REDUCER BW P7-38 ECE 80X50	Nos	1	1					Foc
7606	T-36/14714A	REDUCER BW P7-38 200X100	Nos	1	1					Foc
7607	T-36/14715	REDUCER BW SUS-304 CON 65X50	Nos	1	1					Foc
7608	T-36/14717A	REDUCER BW SUS-304 CON 80X40A	Nos	1	1					Foc
7609	T-36/14718A	REDUCER BW SUS-304 CON 150X100A	Nos	1	1					
7610	T-36/14719	REDUCER GAI BW CON 150X100A	Nos	2	2					
7611	T-36/14719A	REDUCER GAI BW CON 65X50A	Nos	1	1					Foc
7612	T-36/14720	REDUCER GAI BW CON 80X65	Nos	5	5					Foc
7613	T-36/14721A	REDUCER GAI BW CON 200X100A	Nos	2	2					Foc
7614	T-36/14722	REDUCER GAI BW CON 65X25A	Nos	1	1					Foc
7615	T-36/14722A	REDUCER GAI BW CON 65X50A	Nos	1	1					Foc
7616	T-36/14723	CAP BW SGP 80A	Nos	1	1					Foc
7617	T-36/14723A	CAP BW SGP 150A	Nos	4	4					Foc
7618	T-36/14724	CAP BW SGP 50A	Nos	1	1					Foc
7619	T-36/14724A	CAP BW SGP 100A	Nos	1	1					Foc
7620	T-36/14725	ELBOW SWS 25 C-S-80-8AX90 degree	Nos	13	13					Foc
7621	T-36/14725A	ELBOW SWS 25 C-S-80-10AX90 degree	Nos	31	31					Foc
7622	T-36/14726	ELBOW SWS 25 C-S-80-15AX90 degree	Nos	69	69					
7623	T-36/14726A	ELBOW SWS 25 C-S-80-20AX90 degree	Nos	38	38					Foc
7624	T-36/14727	ELBOW SWS 25 C-S-80-20AX45 degree	Nos	11	11					
7625	T-36/14727A	ELBOW SWS 25 C-S-80-25AX90 degree	Nos	1	1					Foc
7626	T-36/14728	ELBOW SWS 25 C-S-80-32AX90 degree	Nos	27	27					Foc
7627	T-36/14728A	ELBOW SWS 25 C-S-80-32AX45 degree	Nos	4	4					
7628	T-36/14729A	ELBOW SWS 25 C-S-80-40AX90 degree	Nos	1	1					Foc
7629	T-36/14730	ELBOW SWS 25 C-S-80-80AX90 degree	Nos	17	17					
7630	T-36/14733A	ELBOW SWPT 49-S80-40AX90 degree	Nos	3	3					Foc
7631	T-36/14732A	ELBOW SWPT 49-S82-F22S160.15Ax90	Nos	19	19					
7632	T-36/14733	ELBOW SWPT 49-S80 40Ax90	Nos	4	4					

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1	2	3	4	5	6	7	8	10	11	12
7633	T-36/14733A	ELBOW SWPT 49-S80 40Ax90	Nos	1	1					
7634	T-36/14734A	ELBOW SWPS .38 - 540.10AX90 degree	Nos	22	22					Foc
7635	T-36/14735	ELBOW SWPS .38 - 540.32AX90 degree	Nos	2	2					Foc
7636	T-36/14735A	ELBOW SW SUS 304-S20.20AX90 degree	Nos	80	80					Foc
7637	T-36/14736	ELBOW SW SUS 304-S20.40AX90 degree	Nos	3	3					
7638	T-36/14737	ELBOW SW SUS 304-S40.15AX90 degree	Nos	50	50					
7639	T-36/14737A	ELBOW SW SUS 304-S80.8AX90 degree	Nos	1	1					Foc
7640	T-36/14738	ELBOW SW SUS 304-S80. 20AX90 degree	Nos	1	1					Foc
7641	T-36/14738A	ELBOW SW SUS 304-S80. 40AX90 degree	Nos	24	24					
7642	T-36/14739	ELBOW SW SUS 304-S80. 50AX45 degree	Nos	1	1					Foc
7643	T-36/14739A	ELBOW SW SUS 316-S20. 20AX90 degree	Nos	9	9					
7644	T-36/14740	ELBOW SW SUS 316-S20. 40AX90 degree	Nos	3	3					Foc
7645	T-36/14741	ELBOW SW SUS 316-S80. 40AX90 degree	Nos	1	1					Foc
7646	T-36/14741A	TEE SWS 25C-15A	Nos	46	46					
7647	T-36/14742	TEE SWS 25C-25A	Nos	31	31					Foc
7648	T-36/14742A	TEE SWS 25C-40A	Nos	15	15					Foc
7649	T-36/14743	TEE SWS 40C-15A	Nos	1	1					Foc
7650	T-36/14743A	TEE SWS 25C40x25A	Nos	3	3					
7651	T-36/14744	TEE SWS 25C40x20A	Nos	3	3					
7652	T-36/14744A	TEE SWS 25C50x25A	Nos	5	5					
7653	T-36/14745	TEE SWS 25C50x40A	Nos	7	7					
7654	T-36/14745A	TEE SWS 25C50x20A	Nos	2	2					
7655	T-36/14746	TEE SWS 25C65x25A	Nos	2	2					
7656	T-36/14746A	TEE SWS 25C65x40A	Nos	2	2					
7657	T-36/14747	TEE SWS 25C15A S 160	Nos	3	3					
7658	T-36/14747A	TEE SWS A182 / F 304-40A	Nos	4	4					
7659	T-36/14748	TEE SWS 304-20A	Nos	5	5					
7660	T-36/14748A	TEE SWS 304-40A	Nos	12	12					
7661	T-36/14749	TEE SW SUS 304-5A	Nos	4	4					
7662	T-36/14749A	TEE SW SUS 304-40X15A	Nos	1	1					Foc
7663	T-36/14750	TEE SW SUS 304-40X20A	Nos	4	4					
7664	T-36/14750A	TEE SW SUS 304-40X20A	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
7665	T-36/14751	TEE SW SUS 304-50X40A	Nos	1	1					Foc
7666	T-36/14751A	TEE SW SUS 304-65X32A	Nos	1	1					Foc
7667	T-36/14752	TEE SW SUS 316-40A	Nos	1	1					Foc
7668	T-36/14754	UNION SW S25C-32A	Nos	2	2					Foc
7669	T-36/14754A	UNION SW S25C-40A	Nos	6	6					Foc
7670	T-36/14755	REDUCER, SW S25C-15X8A	Nos	2	2					Foc
7671	T-36/14755A	REDUCER, SW S25C-15X10A	Nos	6	6					
7672	T-36/14756	REDUCER, 20X15A	Nos	4	4					
7673	T-36/14756A	REDUCER, 25X15A	Nos	12	12					
7674	T-36/14757	REDUCER, 32X10A	Nos	1	1					Foc
7675	T-36/14757A	REDUCER, 32X15A	Nos	69	69					
7676	T-36/14758	REDUCER, SW S25C-32X25A	Nos	1	1					Foc
7677	T-36/14758A	REDUCER, SW S25C-40X15A	Nos	7	7					
7678	T-36/14759	REDUCER, SW S25C-40X20A	Nos	2	2					Foc
7679	T-36/14760	REDUCER, SW S25C-50X32A	Nos	1	1					Foc
7680	T-36/14760A	REDUCER, SW S25C-50X40A	Nos	1	1					Foc
7681	T-36/14761	REDUCER, SW S25C-65X25A	Nos	1	1					Foc
7682	T-36/14761A	REDUCER, SW S25C-20AX15A	Nos	4	4					
7683	T-36/14762	REDUCER, SW S25C-25X15A	Nos	1	1					Foc
7684	T-36/14762A	REDUCER, SW S25C-40X15A	Nos	1	1					Foc
7685	T-36/14763	REDUCER, SW S25C-40X20A	Nos	1	1					Foc
7686	T-36/14763A	REDUCER, SW S25C-40X25A	Nos	1	1					Foc
7687	T-36/14764A	REDUCER, SW S25C-50X40A	Nos	5	5					Foc
7688	T-36/14765	REDUCER, SW S25C-65X25A	Nos	5	5					
7689	T-36/14765A	REDUCER, SW S25C-65X50A	Nos	2	2					Foc
7690	T-36/14766	REDUCER, SW S25C-80X25A	Nos	3	3					
7691	T-36/14766A	REDUCER, SW S25C-80X40A	Nos	1	1					Foc
7692	T-36/14768A	REDUCER, SW AL 82-F22-25X15A	Nos	1	1					Foc
7693	T-36/14769	REDUCER, SW AL 82-F22-50X40A	Nos	1	1					Foc
7694	T-36/14769A	REDUCER, SW SUS-304-15X8A	Nos	1	1					Foc
7695	T-36/14770	REDUCER, SW SUS-304-50X20A	Nos	16	16					
7696	T-36/14770A	REDUCER, SW SUS-304-50X40A-S20	Nos	2	2					Foc

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7697	T-36/14771	REDUCER, SW SUS-304-50X40A	Nos	1	1					Foc
7698	T-36/14771A	REDUCER, SW SUS-304-50X40A-S80	Nos	2	2					Foc
7699	T-36/14772	REDUCER, SW SUS-304-65X40A	Nos	2	2					
7700	T-36/14772A	REDUCER, SW SUS-316-40X25A	Nos	1	1					Foc
7701	T-36/14773	REDUCER, SW SUS-316-80X50A	Nos	3	3					
7702	T-36/14773A	REDUCER, SW SUS-316-40X20A	Nos	1	1					Foc
7703	T-36/14774	FULL COUPLING, SWS 25C-8A	Nos	1	1					Foc
7704	T-36/14775	FULL COUPLING, SWS 25C-15A	Nos	88	88					Foc
7705	T-36/14775A	FULL COUPLING, SWS 25C-20A	Nos	165	165					Foc
7706	T-36/14776	FULL COUPLING, SWS 25C-25A	Nos	179	179					Foc
7707	T-36/14776A	FULL COUPLING, SWS 25C-32A	Nos	28	28					
7708	T-36/14777	FULL COUPLING, SWS 25C-40A	Nos	46	46					Foc
7709	T-36/14777A	FULL COUPLING, SWS 25C-50A	Nos	8	8					Foc
7710	T-36/14778	FULL COUPLING, SW SUS 304-15A	Nos	15	15					Foc
7711	T-36/14778A	FULL COUPLING, SW SUS 304-20A	Nos	10	10					Foc
7712	T-36/14779	FULL COUPLING, SW SUS 304-20A	Nos	24	24					Foc
7713	T-36/14779A	FULL COUPLING, SW SUS 304-40A	Nos	26	26					Foc
7714	T-36/14780	FULL COUPLING, SW SUS 304-50A	Nos	46	46					Foc
7715	T-36/14780A	FULL COUPLING, SW SUS 304-50A	Nos	40	40					Foc
7716	T-36/14781	FULL COUPLING, SW SUS 316-20A	Nos	2	2					Foc
7717	T-36/14781A	FULL COUPLING, SW SUS 316-25A	Nos	10	10					Foc
7718	T-36/14782	FULL COUPLING, SW SUS 316-40A	Nos	16	16					Foc
7719	T-36/14782A	FULL COUPLING, SW SUS 316-50A	Nos	7	7					Foc
7720	T-36/14783	FULL COUPLING, SWPT-49-20A	Nos	10	10					Foc
7721	T-36/14783A	FULL COUPLING, SWPT-49-40A-S80	Nos	4	4					Foc
7722	T-36/14784	FULL COUPLING, SW S160-40A	Nos	2	2					Foc
7723	T-36/14784A	FULL COUPLING, SW -F22-15A	Nos	2	2					Foc
7724	T-36/14785	FULL COUPLING, SW -F22-25A	Nos	10	10					Foc
7725	T-36/14785A	FULL COUPLING, S25C PT-15A	Nos	8	8					Foc
7726	T-36/14786	FULL COUPLING, S25C PT-15A	Nos	4	4					Foc
7727	T-36/14786A	FULL COUPLING, S25C PT-10A	Nos	4	4					Foc
7728	T-36/14787	TEE, S25C SW/PT-15X84A	Nos	33	33					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7729	T-36/14787A	TEE, S25C SW/PT-15X15A	Nos	2	2					Foc
7730	T-36/14788A	BOSS SW S25C-15A	Nos	39	39					Foc
7731	T-36/14789	BOSS SW S25C-20A	Nos	80	80					Foc
7732	T-36/14789A	BOSS SW S25C-32A	Nos	1	1					Foc
7733	T-36/14790A	BOSS SW S25C-50A	Nos	5	5					Foc
7734	T-36/14791A	BOSS SCD S25C-15A	Nos	4	4					Foc
7735	T-36/14792	BOSS SCD S25C-20A	Nos	4	4					Foc
7736	T-36/14792A	BOSS SCD S25C-25A	Nos	3	3					Foc
7737	T-36/14793	BOSS SW PS 38-15A	Nos	4	4					Foc
7738	T-36/14793A	BOSS SF 45A-20A	Nos	8	8					Foc
7739	T-36/14794	BOSS SF 45A-25A	Nos	12	12					Foc
7740	T-36/14794A	BOSS SW SUS 304 20A	Nos	20	20					Foc
7741	T-36/1479595	BOSS SW SUS 304 40A	Nos	1	1					Foc
7742	T-36/14795A	BOSS SCRD SUS-304-15A	Nos	2	2					Foc
7743	T-36/14796	BOSS SCRD SUS-304-25A	Nos	1	1					Foc
7744	T-36/14796A	BOSS SCRD SUS-304-15A	Nos	7	7					Foc
7745	T-36/14797	BOSS SCRD S25C 20A	Nos	56	56					Foc
7746	T-36/14797A	ELBOW, SCRD S25C- 25A	Nos	8	8					Foc
7747	T-36/14798	ELBOW, SCRD S25C- 50A	Nos	1	1					Foc
7748	T-36/14799	ELBOW, SCRD S25C- 80A	Nos	3	3					Foc
7749	T-36/14800	ELBOW, SUS 304- 15A	Nos	1	1					Foc
7750	T-37/14801	ELBOW, SUS 304- 15A	Nos	3	3					Foc
7751	T-37/14801A	ELBOW, SCRD GAL- 10A	Nos	7	7					Foc
7752	T-37/14802	ELBOW, SCRD GAL- 15A	Nos	1	1					Foc
7753	T-37/14802A	ELBOW, SCRD GAL- 20A	Nos	4	4					Foc
7754	T-37/14803	ELBOW, SCRD GAL- 20A	Nos	1	1					Foc
7755	T-37/14803A	ELBOW, SCRD GAL- 25A	Nos	45	45					
7756	T-37/14804	ELBOW, SCRD GAL- 40A	Nos	9	9					Foc
7757	T-37/14804A	ELBOW, SCRD GAL- 50A	Nos	1	1					Foc
7758	T-37/14805	ELBOW, SCRD GAL- 80A	Nos	12	12					
7759	T-37/14805A	SOCKET, SCRD 15A	Nos	26	26					Foc
7760	T-37/14806	SOCKET, SCRD 25A (20/25m)	Nos	25	25					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7761	T-37/14806A	SOCKET, SCRD 32A	Nos	3	3					Foc
7762	T-37/14807	SOCKET, SCRD 40A	Nos	5	5					Foc
7763	T-37/14807A	SOCKET, SCRD 50A	Nos	5	5					
7764	T-37/14808	SOCKET, SCRD 65A	Nos	3	3					Foc
7765	T-37/14808A	SOCKET, SCRD 80A	Nos	21	21					
7766	T-37/14809	TEE, SCRD GAL- 20A	Nos	3	3					Foc
7767	T-37/14809A	TEE, SCRD GAL- 25A	Nos	4	4					Foc
7768	T-37/14810	TEE, SCRD GAL- 40A	Nos	1	1					Foc
7769	T-37/14810A	TEE, SCRD GAL- 80A	Nos	8	8					
7770	T-37/14811	TEE, SCRD GAL- 20A	Nos	2	2					Foc
7771	T-37/14811A	TEE, SCRD GAL- 40X15A	Nos	2	2					Foc
7772	T-37/14812	TEE, SCRD GAL- 40X25A	Nos	2	2					Foc
7773	T-37/14812A	TEE, SCRD GAL- 50AX40A	Nos	2	2					Foc
7774	T-37/14813A	FULL COUPLING, SCRD S25C- 20A	Nos	20	20					Foc
7775	T-37/14814	FULL COUPLING, SCRD S25C- 15A	Nos	2	2					Foc
7776	T-37/14815A	TEE, SCRD S25C 8A	Nos	3	3					Foc
7777	T-37/14816	TEE, SCRD S25C 15A	Nos	4	4					Foc
7778	T-37/14816A	TEE, SCRD S25C 20A	Nos	3	3					Foc
7779	T-37/14817	TEE, SCRD S25C 25A	Nos	9	9					Foc
7780	T-37/14817A	TEE, SCRD S25C 40A	Nos	1	1					Foc
7781	T-37/14819A	UNION SCRD S25C- 32A	Nos	1	1					Foc
7782	T-37/14820	UNION SCRD S25C- 40A	Nos	5	5					Foc
7783	T-37/14820A	UNION SCRD S25C- 15A	Nos	3	3					Foc
7784	T-37/14822A	NIPPLE, SCRD GAL- 15A	Nos	2	2					Foc
7785	T-37/14823	NIPPLE, SCRD GAL- 20A	Nos	13	13					Foc
7786	T-37/14824	REDUCER, SCRD GAL-20X15A	Nos	3	3					Foc
7787	T-37/14824A	REDUCER, SCRD GAL-50X40A	Nos	1	1					Foc
7788	T-37/14825	REDUCER BUSHING, 80X50A	Nos	4	4					Foc
7789	T-37/14825A	REDUCER, SCRD S25C 20X15A	Nos	1	1					Foc
7790	T-37/14826	REDUCER, SCRD S25C-32X6A	Nos	6	6					Foc
7791	T-37/14826A	REDUCER, SCRD S25C-40X20A	Nos	2	2					Foc
7792	T-37/14827	REDUCER, SCRD S25C-40X25A	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
7793	T-37/14827A	ELBOW, PVC- 15A	Nos	1	1					Foc
7794	T-37/14828	ELBOW, PVC- 25A	Nos	1	1					Foc
7795	T-37/14828A	ELBOW, PVC- 40A	Nos	1	1					Foc
7796	T-37/14829	ELBOW, PVC- 100A	Nos	1	1					Foc
7797	T-37/14830	SOCKET, PVC- 40A	Nos	1	1					Foc
7798	T-37/14830A	SOCKET, PVC- 50A	Nos	3	3					Foc
7799	T-37/14831	SOCKET, PVC- 80A	Nos	1	1					Foc
7800	T-37/14831A	SOCKET, PVC- 100A	Nos	1	1					Foc
7801	T-37/14832	SOCKET, PVC- 125A	Nos	7	7					Foc
7802	T-37/14833A	TEE , PVC- 20A	Nos	1	1					Foc
7803	T-37/14835A	TEE , PVC- 25X15A	Nos	1	1					Foc
7804	T-37/14837A	ELBOW, 50A	Nos	2	2					Foc
7805	T-37/14838	REDUCER, PVC-25X15A	Nos	2	2					Foc
7806	T-37/14839A	REDUCER, PVC-100X75A	Nos	5	5					Foc
7807	T-37/14841	FLANGE PVC- 25A	Nos	6	6					Foc
7808	T-37/14844	FLANGE PVC- 125A	Nos	10	10					Foc
7809	T-37/14844A	TEE, PVC- 50X25A	Nos	2	2					Foc
7810	T-37/14845	TEE, PVC- 100X40A	Nos	2	2					Foc
7811	T-37/14845A	TEE, PVC- 125X50A	Nos	12	12					Foc
7812	T-37/14850A	FLANGE SOFF SS41-10K-80A	Nos	2	2					Foc
7813	T-37/14851A	FEMALE FLANGE 15A	Nos	3	3					Foc
7814	T-37/14852A	FEMALE FLANGE 32A	Nos	2	2					Foc
7815	T-37/14853	FEMALE FLANGE 40A	Nos	1	1					Foc
7816	T-37/14853A	FEMALE FLANGE 65A	Nos	3	3					Foc
7817	T-37/14854A	BL FLANGE FF. 125A	Nos	1	1					Foc
7818	T-37/14855	BL FLANGE FF. 200A	Nos	1	1					Foc
7819	T-37/14855A	BL FLANGE FF. 350A	Nos	1	1					Foc
7820	T-37/14856A	FLANGE SORF SS41F. 15A	Nos	6	6					Foc
7821	T-37/14863A	FLANGE SDRF SS41F. 15A	Nos	1	1					Foc
7822	T-37/14864A	FLANGE SDRF SS41F. 50A	Nos	2	2					Foc
7823	T-37/14865	FLANGE SDRF SS41F. 65A	Nos	2	2					Foc
7824	T-37/14865A	FLANGE SDRF SS41F. 80A	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
7825	T-37/14866	FLANGE SDRF S25C- 32A	Nos	2	2					Foc
7826	T-37/14866A	FLANGE SDRF S25C- 15A	Nos	1	1					Foc
7827	T-37/14867	FEMALE FLANGE S25C- 15A	Nos	2	2					Foc
7828	T-37/14867A	FEMALE FLANGE S25C- 20A	Nos	6	6					Foc
7829	T-37/14868	FEMALE FLANGE S25C- 50A	Nos	4	4					Foc
7830	T-37/14868A	FEMALE FLANGE S25C- 80A	Nos	2	2					Foc
7831	T-37/14869	NOCK FLANGE S25C- 15A	Nos	3	3					Foc
7832	T-37/14869A	NOCK FLANGE S25C- 25A	Nos	1	1					Foc
7833	T-37/14871	NOCK FLANGE S25C- 100A	Nos	1	1					Foc
7834	T-37/14873	FLANGE SOFF SUS-304- 65A	Nos	4	4					Foc
7835	T-37/14873A	FLANGE SOFF SUS-304- 100A	Nos	4	4					Foc
7836	T-37/14874	FLANGE SOFF SUS-304- 125A	Nos	3	3					Foc
7837	T-37/14875	FLANGE SCRD-40A	Nos	1	1					Foc
7838	T-37/14875A	FLANGE SCRD-80A	Nos	2	2					Foc
7839	T-37/14876	FLANGE GLAND TIPE- 200A	Nos	2	2					Foc
7840	T-37/14876A	FLANGE GLAND TIPE- 200A	Nos	1	1					Foc
7841	T-37/14882A	FLANGE SOFF GAL- 50A	Nos	3	3					Foc
7842	T-37/14884	FLANGE SORF S25C- 40A	Nos	3	3					Foc
7843	T-37/14884A	FLANGE SORF S25C- 50A	Nos	1	1					Foc
7844	T-37/14885	FLANGE SORF S25C- 15A	Nos	7	7					Foc
7845	T-37/14885A	FLANGE SORF S25C- 25A	Nos	1	1					Foc
7846	T-37/14887	FLANGE SORF S25C- 125A	Nos	1	1					Foc
7847	T-37/14888	FLANGE SORF S25C- 200A	Nos	2	2					Foc
7848	T-37/14888A	FLANGE SORF S25C- 250A	Nos	3	3					Foc
7849	T-37/14889	FLANGE SORF S25C- 25A	Nos	3	3					Foc
7850	T-37/14890	FLANGE SORF SUS-304-65A	Nos	3	3					Foc
7851	T-37/14890A	FLANGE SORF SUS-304-80A	Nos	4	4					Foc
7852	T-37/14892A	FLANGE SCRD S25C-20A	Nos	4	4					Foc
7853	T-37/14896	BLIND FLANGE, 150LbX80A	Nos	2	2					Foc
7854	T-37/14896A	BLIND FLANGE, 150LbX150A	Nos	1	1					Foc
7855	T-37/14897A	STUD BOLT, M30X200L	Nos	4	4					Foc
7856	T-37/14899	STUD BOLT, GAL M42X270L	Nos	9	9					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7857	T-37/14899A	STUD BOLT, GAL M42X285L	Nos	5	5					Foc
7858	T-37/14900	STUD BOLT, M24X240L	Nos	12	12					Foc
7859	T-37/14900A	STUD BOLT, M18X115L	Nos	29	29					Foc
7860	T-38/14901	STUD BOLT, GAL M10X350L	Nos	9	9					Foc
7861	T-38/14902	STUD BOLT, GAL M45X270L	Nos	12	12					Foc
7862	T-38/14902A	STUD BOLT, GAL M45X285L	Nos	4	4					Foc
7863	T-38/14903A	FOUNDATION BOLT GAL-M20X580	Nos	8	8					Foc
7864	T-38/14906A	HEX: BOLT M16X45	Nos	60	60					Foc
7865	T-38/14907	HEX: BOLT M16X50	Nos	31	31					Foc
7866	T-38/14907A	HEX: BOLT 3341-M16X55	Nos	27	27					Foc
7867	T-38/14908	HEX: BOLT 3341-M16X60	Nos	54	54					Foc
7868	T-38/14909	HEX: BOLT 3341-M30X120	Nos	5	5					Foc
7869	T-38/14909A	HEX: BOLT 3341-M10X70	Nos	11	11					Foc
7870	T-38/14912	HEX: BOLT GAL-M30X110	Nos	250	250					Foc
7871	T-38/14912A	HEX: BOLT GAL-M30X170	Nos	5	5					Foc
7872	T-38/14913	HEX: BOLT GAL-M42X210	Nos	5	5					Foc
7873	T-38/14914	HEX: BOLT M12X50	Nos	43	43					
7874	T-38/14916	HEX: BOLT M30X110	Nos	25	25					Foc
7875	T-38/14916A	HEX: BOLT 1/2XM25L	Nos	175	175					Foc
7876	T-38/14917	HEX: BOLT 5/8X15X32mm	Nos	141	141					Foc
7877	T-38/14917A	HEX: BOLT M20X125	Nos	120	120					Foc
7878	T-38/14920	I TYPE ANCHOR BOLT, M16X200	Nos	1	1					Foc
7879	T-38/14922	U BOLT SS41-32A	Nos	30	30					Foc
7880	T-38/14922A	U BOLT SS41-40A	Nos	13	13					Foc
7881	T-38/14924A	U BOLT SS41-150A	Nos	19	19					Foc
7882	T-38/14926	U BOLT SS41-300A	Nos	4	4					Foc
7883	T-38/14928A	U BAND SS41-200A	Nos	8	8					Foc
7884	T-38/14929	U BAND SUS 304-40A	Nos	5	5					Foc
7885	T-38/14942	Gate Valve SCRD 25 A	Nos	2	2					
7886	T-38/14948	BALL VALVE, 20X10K	Nos	1	1					Foc
7887	T-38/14954	VENT CAP	Nos	1	1					Foc
7888	T-38/14954A	Solenoide Valve	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
7889	T-38/14955	STEAM TRIP	Nos	2	2					Foc
7890	T-38/14955A	CLAMP 25A	Nos	5	5					Foc
7891	T-38/14956	CLAMP 15A	Nos	4	4					Foc
7892	T-38/14956A	HANG CLAMP	Nos	5	5					Foc
7893	T-38/14957	HANG CLAMP	Nos	32	32					Foc
7894	T-38/14957A	PIPE SUPPORT AS-3	Nos	3	3					Foc
7895	T-38/14958A	SOELLET COPPER 25mm	Nos	2	2					Foc
7896	T-38/14959	NIPPLE 10A	Nos	2	2					Foc
7897	T-38/14959A	NIPPLE 15A	Nos	5	5					Foc
7898	T-38/14960	RUBBER SOCKET	Nos	2	2					Foc
7899	T-38/14960A	COPPER ELBOW 25A	Nos	2	2					Foc
7900	T-38/14961	BRACKET 1880- 50A	Nos	2	2					Foc
7901	T-38/14962A	UNI BAN	Nos	1	1					Foc
7902	T-38/14965A	PLASTIC TAP 4"	Nos	15	15					Foc
7903	T-38/14966	PLASTIC TAP 5"	Nos	13	13					Foc
7904	T-38/14966A	PLASTIC TAP 8"	Nos	13	13					Foc
7905	T-38/14967	SPRAY ADHESIVE 60	Nos	28	28					Foc
7906	T-38/14967A	L-TYPE LUG SIZE	Nos	700	700					Foc
7907	T-38/14968	GLASS FIBER TYPE 50mm	Nos	4	4					Foc
7908	T-38/14968A	PIN M8X 125L	Nos	100	100					Foc
7909	T-38/14969A	SOCKET NUT 3/8"	Nos	310	310					Foc
7910	T-38/14970A	RIVET 4.5X8	Nos	170	170					Foc
7911	T-38/14971A	PIN, M8X75	Nos	275	275					Foc
7912	T-38/14972	COTTON TAPE, 4"X115L	Nos	35	35					Foc
7913	T-38/14972A	COTTON TAPE, 5"X115L	Nos	35	35					Foc
7914	T-38/14973A	COTTON TAPE, 8"X115L	Nos	10	10					Foc
7915	T-38/14974	PVC ADHESING OF AHV	Nos	30	30					Foc
7916	T-38/14974A	GUMM PACKING OF AHV	Nos	88	88					Foc
7917	T-38/14975	ADHESIVE 3KG/CAN	Nos	6	6					Foc
7918	T-38/14976A	VINYL TAPE WHITE 100m	Nos	5	5					Foc
7919	T-38/14977	POLYS TRENC TAPE 100m	Nos	3	3					Foc
7920	T-38/14977A	POLYS TRENC SHEET 10TX1MX10M	Nos	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
7921	T-38/14978A	POLYS TRENC TUBE 15.88TX10TX2mm	Nos	3	3					Foc
7922	T-38/14979	POLYS TRENC TUBE 25.4TX10TX2mm	Nos	3	3					Foc
7923	T-38/14979A	HF WITH FILTER 600X800	Nos	2	2					Foc
7924	T-38/14980	ALUMINIUM PAPPER	Nos	3	3					Foc
7925	T-38/14980A	INSULATION PAPPER	Nos	3	3					Foc
7926	T-38/14981	VOLUM DAMPER CLOTH	Roll	2	2					Foc
7927	T-38/14981A	FOAM POLYS PIPE COVER,	Nos	25	25					Foc
7928	T-38/14982	STEEL BAND FASTENER 13mm (INSULATION PIN)	Nos	11530	11530					Foc
7929	T-38/14982A	STEEL BAND FASINER 19mm	Nos	5000	5000					Foc
7930	T-38/14983	STAINLESS STEEL WIRE, NO.20	Nos	20	20					Foc
7931	T-38/14983A	GAL STEEL WIRE 1.6T	Nos	40	40					Foc
7932	T-38/14984	GAL STEEL WIRE 1.2T	Nos	190	190					Foc
7933	T-38/14984A	S.S FLEXIABLE JOINT 150A	Nos	2	2					Foc
7934	T-38/14985	INSULATION HAGER 25AX30	Nos	5	5					Foc
7935	T-38/14985A	INSULATION HAGER 32AX40	Nos	4	4					Foc
7936	T-38/14986	INSULATION HAGER 40AX40	Nos	10	10					Foc
7937	T-38/14986A	INSULATION HAGER 50AX40	Nos	5	5					Foc
7938	T-38/14987	INSULATION HAGER 65AX40	Nos	14	14					Foc
7939	T-38/14987A	INSULATION HAGER 80AX40	Nos	8	8					Foc
7940	T-38/14988	INSULATION HAGER 125AX40	Nos	15	15					Foc
7941	T-38/14988A	INSULATION HAGER 200AX40	Nos	4	4					Foc
7942	T-38/14989	ROLLER HANGER 25A	Nos	30	30					Foc
7943	T-38/14989A	ROLLER HANGER 40A	Nos	8	8					Foc
7944	T-38/14990	ROLLER HANGER 50A	Nos	3	3					Foc
7945	T-38/14990A	ROLLER HANGER 65A	Nos	2	2					Foc
7946	T-38/14991	ROLLER HANGER 80A	Nos	7	7					Foc
7947	T-38/14991A	ROLLER HANGER 100A	Nos	6	6					Foc
7948	T-38/14992	GLASS TYPE	Nos	10	10					Foc
7949	T-38/14992A	FOAM	Nos	7	7					Foc
7950	T-38/14993A	JUTE TAPE	Nos	176	176					Foc
7951	T-38/14994	INSER SLEEVE	Nos	110	110					Foc
7952	T-38/14994A	AIR CHAMBER 0C07-0571F	Nos	2	2					Foc

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7953	T-38/14995	AIR CHAMBER 0C07-0581E	Nos	1	1					Foc
7954	T-38/14995A	VINYL CLOTH	Roll	2	2					Foc
7955	T-38/14996	FILL SPACER	Nos	175	175					Foc
7956	T-38/14996A	ADJUSTING HANDLE FOR WATER EJECTOR	Nos	1	1					Foc
7957	T-38/14997	FOUNDATION FOR CONTROLLER BOX	Nos	1	1					Foc
7958	T-38/14997A	FUNNEL SET OIL 3/4"	Nos	3	3					Foc
7959	T-38/14998	FUNNEL SET OIL 013 3/8"	Nos	2	2					Foc
7960	T-38/14999	FLEXIABLE TUBE.	Nos	1	1					Foc
7961	T-38/14999A	ASBOSTOS TAPE, 50mm	Nos	8	8					Foc
7962	T-38/15000	FLEXIABLE HOSE 100AX1000L	Nos	2	2					Foc
7963	T-38/15000A	FLEXIABLE HOSE 65AX1000L	Nos	1	1					Foc
7964	T-39/15001	FLEXIABLE HOSEUNION NIP 25AX800L	Nos	1	1					Foc
7965	T-39/15001A	FLEXIABLE HOSEUNION NIP 20AX800L	Nos	3	3					Foc
7966	T-39/15002	FLEXIABLE HOSEUNION NIP 40AX1000L	Nos	1	1					Foc
7967	T-39/15002A	ASPHALT PAPPER	Roll	1	1					Foc
7968	T-39/15003	SADDLE CLIP	Nos	140	140					Foc
7969	T-39/15003A	BASE PLATE FOR PLATE FORM	Nos	3	3					Foc
7970	T-39/15004	SADDLE CLIP	Nos	1750	1750					Foc
7971	T-39/15005	NORMAL BAND G-28	Nos	160	160					Foc
7972	T-39/15005A	NORMAL BAND G-36	Nos	947	947					Foc
7973	T-39/15006	NORMAL BAND G-42	Nos	110	110					Foc
7974	T-39/15006A	NORMAL BAND G-70	Nos	77	77					Foc
7975	T-39/15007	NORMAL BAND G-82	Nos	30	30					Foc
7976	T-39/15007A	NORMAL BAND G-92	Nos	15	15					Foc
7977	T-39/15008	NORMAL BAND G-104	Nos	42	42					Foc
7978	T-39/15008A	NORMAL BAND G-150	Nos	8	8					
7979	T-39/15009	UNION COUPLING G-16	Nos	5	5					Foc
7980	T-39/15009A	UNION COUPLING G-22	Nos	5	5					Foc
7981	T-39/15010	UNION COUPLING G-28	Nos	10	10					Foc
7982	T-39/15011A	UNION COUPLING G-54	Nos	6	6					Foc
7983	T-39/15013A	THREADING COUPLING G-22	Nos	2	2					Foc
7984	T-39/15014	THREADING COUPLING G-28	Nos	1300	1300					Foc

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7985	T-39/15014A	UNIVERSAL COUPLING G-16	Nos	98	98					Foc
7986	T-39/15015	UNIVERSAL COUPLING G-28	Nos	200	200					Foc
7987	T-39/15015A	UNIVERSAL COUPLING G-36	Nos	100	100					Foc
7988	T-39/15016	UNIVERSAL COUPLING G-42	Nos	92	92					Foc
7989	T-39/15016A	UNIVERSAL COUPLING G-54	Nos	61	61					Foc
7990	T-39/15017	UNIVERSAL COUPLING G-70	Nos	18	18					Foc
7991	T-39/15017A	UNIVERSAL ELBOW G-22	Nos	19	19					Foc
7992	T-39/15018	UNIVERSAL ELBOW G-28	Nos	22	22					Foc
7993	T-39/15018A	4-WAY JUNCTION BOX, G-22	Nos	10	10					Foc
7994	T-39/15019	4-WAY JUNCTION BOX, G-28	Nos	41	41					Foc
7995	T-39/15019A	3-WAY JUNCTION BOX, G-28	Nos	4	4					Foc
7996	T-39/15020	2-WAY JUNCTION BOX, G-22	Nos	7	7					Foc
7997	T-39/15020A	BUSHING G-22	Nos	600	600					Foc
7998	T-39/15021	BUSHING G-28	Nos	160	160					Foc
7999	T-39/15021A	BUSHING G-36	Nos	186	186					Foc
8000	T-39/15022	BUSHING G-42	Nos	70	70					Foc
8001	T-39/15022A	PVC 'BUSHING G-28	Nos	330	330					Foc
8002	T-39/15023	PVC 'BUSHING G-36	Nos	230	230					Foc
8003	T-39/15023A	PVC 'BUSHING G-54	Nos	295	295					Foc
8004	T-39/15024	BOX CONNECTOR, G-16	Nos	71	71					Foc
8005	T-39/15024A	BOX CONNECTOR, G-36	Nos	10	10					Foc
8006	T-39/15025	BOX CONNECTOR, G-42	Nos	12	12					Foc
8007	T-39/15025A	BOX CONNECTOR, G-70	Nos	2	2					Foc
8008	T-39/15026	BOX CONNECTOR, G-104	Nos	6	6					Foc
8009	T-39/15026A	F.B CONNECTOR, G-28	Nos	61	61					Foc
8010	T-39/15027	F.B CONNECTOR, G-42	Nos	6	6					Foc
8011	T-39/15027A	PIPE CONNECTOR, G-16	Nos	4	4					Foc
8012	T-39/15028	PIPE CONNECTOR, G-22	Nos	21	21					Foc
8013	T-39/15028A	PIPE CONNECTOR, G-28	Nos	50	50					Foc
8014	T-39/15029	PIPE CONNECTOR, G-36	Nos	54	54					Foc
8015	T-39/15029A	PIPE CONNECTOR, G-70	Nos	2	2					Foc
8016	T-39/15030	PIPE CONNECTOR, G-104	Nos	6	6					Foc

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1	2	3	4	5	6	7	8	10	11	12
8017	T-39/15030A	PIPE CONNECTOR, G-22	Nos	10	10					Foc
8018	T-39/15031	PIPE CONNECTOR, G-28	Nos	100	100					Foc
8019	T-39/15031A	PIPE CONNECTOR, G-42	Nos	21	21					Foc
8020	T-39/15032	LOCK NUT, G-22	Nos	1875	1875					Foc
8021	T-39/15032A	LOCK NUT, G-28	Nos	2250	2250					Foc
8022	T-39/15033	LOCK NUT, G-36	Nos	2050	2050					Foc
8023	T-39/15033A	LOCK NUT, G-42	Nos	700	700					Foc
8024	T-39/15034	LOCK NUT, G-70	Nos	180	180					Foc
8025	T-39/15034A	LOCK NUT, G-82	Nos	25	25					Foc
8026	T-39/15035	LOCK NUT, G-104	Nos	49	49					Foc
8027	T-39/15036	REDUCER, G42X22	Nos	2	2					Foc
8028	T-39/15036A	REDUCER, G42X28	Nos	12	12					Foc
8029	T-39/15037	REDUCER, G70X42	Nos	1	1					Foc
8030	T-39/15037A	REDUCER, G80X54	Nos	2	2					Foc
8031	T-39/15038	REDUCER, G104X70	Nos	6	6					Foc
8032	T-39/15040	SHORT NIPPLE, G-16	Nos	3	3					Foc
8033	T-39/15040A	SHORT NIPPLE, G-22	Nos	4	4					Foc
8034	T-39/15041	SHORT NIPPLE, G-36	Nos	6	6					Foc
8035	T-39/15041A	SHORT NIPPLE, G-82	Nos	7	7					Foc
8036	T-39/15042A	SADDLE, G-28	Nos	220	220					Foc
8037	T-39/15043	SADDLE, G-26	Nos							Foc
8038	T-39/15043A	SADDLE, G-42	Nos							Foc
8039	T-39/15044	ANCHOR BOLT SS41-M10	Pkt	8	8					Foc
8040	T-39/15044A	ANCHOR BOLT SS41-M12	Pkt	36	36					Foc
8041	T-39/15046A	HAWK CUT ANCHOR 3/8"	Nos	750	750					Foc
8042	T-39/15047	HOLE ANCHOR M-10	Nos	600	600					Foc
8043	T-39/15047A	BOLT, M-8X15L	Nos	280	280					Foc
8044	T-39/15048	BOLT AND NUT M-8X25L	Nos	544	544					Foc
8045	T-39/15048A	BOLT AND NUT M-10X15	Nos	200	200					Foc
8046	T-39/15049	BOLT, M-12X20	Nos	260	260					Foc
8047	T-39/15049A	BOLT AND NUT M-12X30	Nos	200	200					Foc
8048	T-39/15050	WASHER, M10	Nos	1658	1658					Foc

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1	2	3	4	5	6	7	8	10	11	12
8049	T-39/15050A	WASHER, M12	Nos	2840	2840					Foc
8050	T-39/15051	BOLT & NUT FOR C-TRG, M-8X15	Nos	3000	3000					Foc
8051	T-39/15051A	VINYL BORO-8-12-1M (CONNECTOR)	Nos	8700	8700					Foc
8052	T-39/15052A	TERMINAL LUG PVC CONTED 1.25-4	Nos	300	300					Foc
8053	T-39/15054	TERMINAL LUG PVC CONTED, RE-25-3-7	Nos	200	200					Foc
8054	T-39/15054A	TERMINAL LUG PVC CONTED, FV-5-8-5	Nos	100	100					Foc
8055	T-39/15055	SOLDER TERMINAL RSS-5	Nos	100	100					Foc
8056	T-39/15055A	SOLDER TERMINAL , 2M-4	Nos	600	600					Foc
8057	T-39/15056	SOLDER TERMINAL , 22-6	Nos	400	400					Foc
8058	T-39/15056A	TERMINAL LUG RD-325-14	Nos	315	315					Foc
8059	T-39/15057	TERMINAL LUG RD-325-12	Nos	120	120					Foc
8060	T-39/15057A	SOLDER TERMINAL, 38-S10	Nos	425	425					Foc
8061	T-39/15058	SOLDER TERMINAL, 150-SD12	Nos	4	4					Foc
8062	T-39/15058A	RING SLEEVE	Nos	20	20					Foc
8063	T-39/15059	SLEEVE PV-8	Nos	1700	1700					Foc
8064	T-39/15059A	SLEEVE PV-14	Nos	70	70					Foc
8065	T-39/15060	SLEEVE , B-55	Nos	1300	1300					Foc
8066	T-39/15061A	COMPRESSION TERMINAL, SB-325	Nos	5	5					Foc
8067	T-39/15064	C-TYPE CONNECTOR, C-1	Nos	85	85					Foc
8068	T-39/15064A	C-TYPE CONNECTOR, C-3	Nos	350	350					Foc
8069	T-39/15065	TERMINAL CAP PVC BROWN 2.Sq	Nos	300	300					Foc
8070	T-39/15065A	TERMINAL CAP PVC YELLOW 2.Sq	Nos	295	295					Foc
8071	T-39/15066	TERMINAL CAP PVC RED 2.Sq	Nos	100	100					Foc
8072	T-39/15066A	TERMINAL CAP PVC BROWN 35-3.5 Sq	Nos	395	395					Foc
8073	T-39/15067	TERMINAL CAP PVC YELLOW 3.5.Sq	Nos	500	500					Foc
8074	T-39/15067A	TERMINAL CAP PVC RED 3.5.Sq	Nos	200	200					Foc
8075	T-39/15068	TERMINAL CAP PVC BROWN 5.Sq	Nos	270	270					Foc
8076	T-39/15068A	TERMINAL CAP PVC BLUE 5.Sq	Nos	100	100					Foc
8077	T-39/15069	TERMINAL CAP PVC WHITE 5.Sq	Nos	100	100					Foc
8078	T-39/15069A	TERMINAL CAP PVC BROWN 14 Sq	Nos	23	23					Foc
8079	T-39/15070	TERMINAL CAP PVC BROWN 60.Sq	Nos	15	15					Foc
8080	T-39/15070A	TERMINAL CAP PVC RED 60 .Sq	Nos	22	22					Foc

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1	2	3	4	5	6	7	8	10	11	12
8081	T-39/15071	TERMINAL CAP PVC YELLOW 60.Sq	Nos	34	34					Foc
8082	T-39/15071A	TERMINAL CAP PVC BLUE 60.Sq	Nos	26	26					Foc
8083	T-39/15072	TERMINAL CAP PVC BROWN	Nos	8	8					Foc
8084	T-39/15072A	TERMINAL CAP PVC GREEN 100.Sq	Nos	8	8					Foc
8085	T-39/15073	TERMINAL CAP PVC RED 100.Sq	Nos	17	17					Foc
8086	T-39/15073A	TERMINAL CAP PVC BLUE 100.Sq	Nos	17	17					Foc
8087	T-39/15074	TERMINAL CAP PVC YELLOW 100.Sq	Nos	14	14					Foc
8088	T-39/15074A	TERMINAL CAP PVC BLUE 150.Sq	Nos	18	18					Foc
8089	T-39/15075	TERMINAL CAP PVC RED 150.Sq	Nos	15	15					Foc
8090	T-39/15075A	TERMINAL CAP PVC YELLOW 150.Sq	Nos	19	19					Foc
8091	T-39/15076	TERMINAL CAP PVC GREEN 150.Sq	Nos	6	6					Foc
8092	T-39/15076A	TERMINAL CAP PVC BLUE 200.Sq	Nos	28	28					Foc
8093	T-39/15077	TERMINAL CAP PVC RED 200.Sq	Nos	27	27					Foc
8094	T-39/15077A	TERMINAL CAP PVC YELLOW 200.Sq	Nos	27	27					Foc
8095	T-39/15078	TERMINAL CAP PVC BLUE 250.Sq	Nos	36	36					Foc
8096	T-39/15078A	TERMINAL CAP PVC RED 250.Sq	Nos	36	36					Foc
8097	T-39/15079	TERMINAL CAP PVC YELLOW 250.Sq	Nos	37	37					Foc
8098	T-39/15079A	TERMINAL CAP PVC BLUE 325.Sq	Nos	17	17					Foc
8099	T-39/15080	TERMINAL CAP PVC RED 325.Sq	Nos	14	14					Foc
8100	T-39/15080A	TERMINAL CAP PVC YELLOW 325.Sq	Nos	16	16					Foc
8101	T-39/15081	WAX THREAD	Nos	160	160					Foc
8102	T-39/15081A	JOINT BOX 6.6KV CVO.3X6 Sq	Nos	3	3					Foc
8103	T-39/15082	JOINT BOX 6.6KV CVO.3X38 Sq	Nos	3	3					Foc
8104	T-39/15082A	PIPE JOINT	Nos	6	6					Foc
8105	T-39/15083	NEGROUSE DG-2	Nos	80	80					Foc
8106	T-39/15083A	NEGROUSE TKH-9	Nos	140	140					Foc
8107	T-39/15084	NEGROUSE DK-2UK	Nos	100	100					Foc
8108	T-39/15084A	NEGROUSE T 381+-12-120	Nos	400	400					Foc
8109	T-39/15085	NEGROUSE T 381+-12-90	Nos	100	100					Foc
8110	T-39/15085A	NEGROUSE TF G-1	Nos	100	100					Foc
8111	T-39/15086	NEGROUSE TK - 315	Nos	73	73					Foc
8112	T-39/15086A	NEGROUSE CLAMP DG-28	Nos	500	500					Foc

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1	2	3	4	5	6	7	8	10	11	12
8113	T-39/15087	NEGROUSE DPY-1	Nos	140	140					Foc
8114	T-39/15087A	PILUCK 15	Nos	3830	3830					Foc
8115	T-39/15088	PILUCK 100	Nos	90	90					Foc
8116	T-39/15088A	NEGROUSE CLAMP DG-36	Nos	160	160					Foc
8117	T-39/15089	PILUCK CLAMP G-22	Nos	3950	3950					Foc
8118	T-39/15089A	END CAP	Nos	60	60					Foc
8119	T-39/15090	BAND 0-4MMTX13MMW	Nos	300	300					Foc
8120	T-39/15090A	HANGER BAND SB-15	Nos	340	340					Foc
8121	T-39/15091	NEOSEAL	Nos	1	1					Foc
8122	T-39/15091A	WIRE GAL # 18	Nos	6	6					Foc
8123	T-39/15092	GAL SS TAPE 50mmX30M	Nos	9	9					Foc
8124	T-39/15092A	GAL SS TAPE 75mmX30M	Nos	7	7					Foc
8125	T-39/15093	FASTENER FOR BAND 13 MMW	Nos	2000	2000					Foc
8126	T-39/15093A	TAPING SCREW GAL 4X12MM	Nos	1800	1800					Foc
8127	T-39/15094	UNIC BAND 20W	Nos	100	100					Foc
8128	T-39/15094A	RACHS GEAR CLAMP UU-15	Nos	18	18					Foc
8129	T-39/15095	SADDLE UU-01	Nos	50	50					Foc
8130	T-39/15095A	EYE BOLT SS41-M16	Nos	45	45					Foc
8131	T-39/15096	SWITCH BOX FOR ANESENITHEH	Nos	50	50					Foc
8132	T-39/15096A	COVER PLATE FOR BOX	Nos	30	30					Foc
8133	T-39/15097	OUTLET BOX 4"X4"	Nos	17	17					Foc
8134	T-39/15097A	ANGLE HOOK	Nos	3300	3300					Foc
8135	T-39/15098	FLEXIABLE TUBE-G16	Nos	40	40					Foc
8136	T-39/15100A	FLEXIABLE TUBE- G 54	Nos	8	8					Foc
8137	T-40/15101	CLAMP FOR FLEXIABLE G-54	Nos	30	30					Foc
8138	T-40/15101A	NORMAL BAND PVC G-54	Nos	4	4					Foc
8139	T-40/15102	SADDLE PVC G-54	Nos	10	10					Foc
8140	T-40/15102A	COUPLING PVC G-54	Nos	4	4					Foc
8141	T-40/15103	BOX CONNECTOR FOR PVC G-54	Nos	4	4					Foc
8142	T-40/15103A	PVC COUPLING G-16	Nos	28	28					Foc
8143	T-40/15104	PVC COUPLING G-28	Nos	20	20					Foc
8144	T-40/15104A	PVC COUPLING G-36	Nos	30	30					Foc

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8145	T-40/15105	PVC COUPLING G-42	Nos	15	15					Foc
8146	T-40/15105A	COMPRESSION TERMINAL 400 Sq	Nos	3	3					Foc
8147	T-40/15106	COMPRESSION TERMINAL 600 Sq	Nos	3	3					Foc
8148	T-40/15106A	SELENCE FOR TERMINAL 400A	Nos	5	5					Foc
8149	T-40/15107A	PLICA TUBE, G-28	Nos	2	2					Foc
8150	T-40/15108	VINYL WIRE	Roill	3	3					Foc
8151	T-40/15108A	JUNCTION BOX G-22	Nos	71	71					Foc
8152	T-40/15109	CABLE CLEAT A-120	Nos	21	21					Foc
8153	T-40/15109A	CABLE CLEAT A-130	Nos	23	23					Foc
8154	T-40/15110	DAMPER	Nos	9	9					Foc
8155	T-40/15110A	STD PIPE JOINT	Nos	28	28					Foc
8156	T-40/15112	PVC CABLE 6KVCV-3CX150 Sq	Mtr.	70	70					Foc
8157	T-40/15116	PVC CABLE 600 VCV-3CX150 Sq	Mtr.	45	45					Foc
8158	T-40/15118A	PVC CABLE 600 VCV-3CX60 Sq	Mtr.	55	55					Foc
8159	T-40/15119A	PVC CABLE 600 VCV-3CX38 Sq	Mtr.	20	20					Foc
8160	T-40/15120	PVC CABLE 600 VCV-3CX38 Sq	Mtr.	80	80					Foc
8161	T-40/15121	PVC CABLE 600 VCV-3CX22 Sq	Mtr.	50	50					Foc
8162	T-40/15124A	PVC CABLE 600 VCV-2CX3.5 Sq	Mtr.	70	70					Foc
8163	T-40/15125	PVC CABLE 600 VCV-2CX3.5 Sq	Mtr.	710	710					Foc
8164	T-40/15125A	PVC CABLE 600 VCV-1CX14 Sq	Mtr.	10	10					Foc
8165	T-40/15126	PVC CABLE 600 VCV-1CX5.5 Sq	Mtr.	150	150					Foc
8166	T-40/15127	PVC CABLE 600V CVS-12CX2 Sq	Mtr.	70	70					Foc
8167	T-40/15127A	PVC CABLE 600V CVS-5CX2 Sq	Mtr.	73	73					Foc
8168	T-40/15128A	PVC CABLE 600V CVS-2CX2 Sq	Mtr.	75	75					Foc
8169	T-40/15132A	PVC CABLE 600V CVV-12CX2 Sq	Mtr.	55	55					Foc
8170	T-40/15133A	PVC CABLE 600V CVV-3CX2 Sq	Mtr.	930	930					Foc
8171	T-40/15134	PVC CABLE 600V CVV-1V 240	Mtr.	66	66					Foc
8172	T-40/15135	PVC CABLE CPEVS-0.75X7P	Mtr.	95	95					Foc
8173	T-40/15135A	PVC CABLE CPEVS-0.9X10P	Mtr.	10	10					Foc
8174	T-40/15136A	PVC CABLE KPEVS-0.75X3P	Mtr.	130	130					Foc
8175	T-40/15137	PVC CABLE KPEVS-0.75X2P	Mtr.	4	4					Foc
8176	T-40/15138	PVC CABLE EX4-0.65X1P/2C	Mtr.	3	3					Foc

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8177	T-40/15138A	PVC CABLE EX4-0.65X1P	Mtr.	93	93					Foc
8178	T-40/15139A	PVC CABLE 6CX22	Mtr.	95	95					Foc
8179	T-40/15140A	PVC CABLE 6CX350	Mtr.	50	50					Foc
8180	T-40/15142	PLASTIC ADHESIVE 826	Tin	10	10					Foc
8181	T-40/15142A	EPILUX HANDNER	Tin	8	8					Foc
8182	T-40/15143A	3M-826 ADHESIVE 1/4 GAL	Tin	1	1					Foc
8183	T-40/15144	THINNER 4 GAL	Can	1	1					Foc
8184	T-40/15144A	EPONIES ITERMEDIATE COUT HARDNER	Can	25	25					Foc
8185	T-40/15145	SD.ZINC RICH PRIMER	Can	2	2					Foc
8186	T-40/15145A	SD MARINE COUTING 4Kg	Tin	6	6					Foc
8187	T-40/15146	THERMO-200 COUTING	Tin	1	1					Foc
8188	T-40/15146A	COATING 7.5 R 4/14	Tin	1	1					Foc
8189	T-40/15147	OH-BORNED	Tin	4	4					Foc
8190	T-40/15147A	NEWACNON COATING (16 Kg)	Tin	52	52					Foc
8191	T-40/15148	SDC COAT BLACK BASE (16.2 Kg)	Tin	101	101					Foc
8192	T-40/15148A	KUBOTA COAT (2 Kg)	Tin	16	16					Foc
8193	T-40/15149	BURGER HARDNER (5 lit)	Can	22	22					Foc
8194	T-40/15149A	LUBRICANT DVCTILE 2 Kg	Can	27	27					Foc
8195	T-40/15150	COATING SC-500	Set	29	29					Foc
8196	T-40/15150A	NEW DUCT COATING (20 Kg)	Tin	39	39					Foc
8197	T-40/15151	ALKALI SCALER (16 Kg)	Tin	23	23					Foc
8198	T-40/15151A	HERME SCALE (10 Kg)	Tin	43	43					Foc
8199	T-40/15152	BATTERY ACID 40 LIT	Can	4	4					Foc
8200	T-40/15152A	GLASS WOOL	Roll	4	4					Foc
8201	T-40/15153	THERMAL PEN HEAD	Nos.	1	1					Foc
8202	T-40/15153A	THERMAL HEAD	Nos.	1	1					Foc
8203	T-40/15154	PROBE PLUG AND SOCKET	Nos.	1	1					Foc
8204	T-40/15154A	RECORDING PEN	Nos.	1	1					Foc
8205	T-40/15155	HEATER 200 W	Nos.	1	1					Foc
8206	T-40/15155A	HEATER 100 W	Nos.	1	1					Foc
8207	T-40/15156	FEELER FOR INJ BLOCK	Nos.	1	1					Foc
8208	T-40/15156A	O-RING P-4	Nos.	125	125					Foc

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8209	T-40/15157	FEELER COLUMN VEN	Nos.	1	1					Foc
8210	T-40/15157A	FEELER FOR DETEC FORM BLOCK	Nos.	1	1					Foc
8211	T-40/15158	FEELER	Nos.	1	1					Foc
8212	T-40/15158A	HEATER 80 W	Nos.	1	1					Foc
8213	T-40/15159	SILICON RUBBER PACKING	Nos.	250	250					Foc
8214	T-40/15159A	QUARTZ GLASS WOOL	Nos.	3	3					Foc
8215	T-40/15160	ALUMINIUM PACKING	Nos.	10	10					Foc
8216	T-40/15160A	T-SHAPED PACKAGE SMALL	Nos.	250	250					Foc
8217	T-40/15161	IGNITION COIL	Nos.	2	2					Foc
8218	T-40/15161A	NOZZLE	Nos.	2	2					Foc
8219	T-40/15162	S. STEEL INSERT	Nos.	1	1					Foc
8220	T-40/15162A	INJECTION PART	Nos.	1	1					Foc
8221	T-40/15163	O-RING NBR	Nos.	30	30					Foc
8222	T-40/15163A	GLASS FUSE 3A	Nos.	5	5					Foc
8223	T-40/15164	GLASS FUSE 5A	Nos.	5	5					Foc
8224	T-40/15164A	GLASS FUSE 15A	Nos.	5	5					Foc
8225	T-40/15165	COLLER FOR	Nos.	2	2					Foc
8226	T-40/15165A	RING SPRING	Nos.	1	1					Foc
8227	T-40/15166	DISPERSER	Nos.	1	1					Foc
8228	T-40/15166A	CORK STOPER	Nos.	6	6					Foc
8229	T-40/15167	OPEN WRENCH M-27	Nos.	1	1					Foc
8230	T-40/15167A	GLASS FUSE 2A	Nos.	2	2					Foc
8231	T-40/15168	GLASS CONDENSER MED	Nos.	2	2					Foc
8232	T-40/15168A	GLASS CONDENSER SMALL	Nos.	2	2					Foc
8233	T-40/15169	POLE STEEL BAR	Nos.	2	2					Foc
8234	T-40/15169A	POLE STEEL BAR SMALL	Nos.	2	2					Foc
8235	T-40/15170	TAMAN CUBICAL	Nos.	10	10					Foc
8236	T-40/15170A	PROTECTION TUBE	Nos.	60	60					Foc
8237	T-40/15171	SOCKET PVC LINING	Nos.	54	54					Foc
8238	T-40/15171A	SOCKET PVC LINING 1 1/2	Nos.	12	12					Foc
8239	T-40/15172	ELBOW PVC LINING 2"	Nos.	2	2					Foc
8240	T-40/15172A	ELBOW PVC LINING 3/4"	Nos.	32	32					Foc

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8241	T-40/15173	UNION PVC LINING 2"	Nos.	16	16					Foc
8242	T-40/15173A	UNION PVC LINING 1 1/2	Nos.	5	5					Foc
8243	T-40/15174	UNION PVC LINING 3/4"	Nos.	15	15					Foc
8244	T-40/15174A	R/TEE PVC LINING 2"X 3/4"	Nos.	5	5					Foc
8245	T-40/15175	REDUCER PVC LINING 40X60mm	Nos.	1	1					Foc
8246	T-40/15175A	REDUCER PVC LINING 30X40mm	Nos.	1	1					Foc
8247	T-40/15176	SOCKET 25mm	Nos.	12	12					Foc
8248	T-40/15176A	WIPPING SOLDER	Nos.	302	302					Foc
8249	T-40/15177	ALUMINIUM SOLDER	Nos.	19	19					Foc
8250	T-40/15177A	LEAD SOLDER	Nos.	6	6					Foc
8251	T-40/15178	CONDUCTING SOLDER	Nos.	17	17					Foc
8252	T-40/15178A	FIRE BOX ALARM SUFAH	Nos.	15	15					Foc
8253	T-40/15179	FIRE BOX ALARM BELL	Nos.	7	7					Foc
8254	T-40/15179A	FIRE BOX ALARM LAMP	Nos.	20	20					Foc
8255	T-40/15180	PRESSURE GAUGE P1-80	Nos.	4	4					Foc
8256	T-40/15181	AICA AIBON ET-5025	Tin	1	1					Foc
8257	T-40/15181A	TOUCHING COATING 631222, 18 Kg	Tin	1	1					Foc
8258	T-40/15181B	SPAECIAL COATING, 5235, 18Kg	Tin	1	1					Foc
8259	T-40/15182	COATING USR-M33-553 (20 Kg)	Tin	8	8					Foc
8260	T-40/15182A	BITUMINNONS PRIMER (18Kg)	Tin	1	1					Foc
8261	T-40/15183	COATING-576 (18Kg)	Tin	1	1					Foc
8262	T-40/15183A	COATING USR-M18-502 (20 Kg)	Tin	7	7					Foc
8263	T-40/15184A	COATING ROVEL (18 LIT)	Tin	2	2					Foc
8264	T-40/15185	COATING DNT (16 LIT)	Tin	1	1					Foc
8265	T-40/15185A	EPONIES COATING (11.2 LIT)	Tin	77	77					Foc
8266	T-40/15186	BITULUCK COATING (20 Kg)	Tin	17	17					Foc
8267	T-40/15186A	HAMATITE PRIMER (1 LIT)	Tin	70	70					Foc
8268	T-40/15187	SPECIAL COATING S210-36	Can	1	1					Foc
8269	T-40/15187A	SPECIAL COATING S202-6 (S210-36)	Can	1	1					Foc
8270	T-40/15188	SPECIAL COATING S202-6 (S232-5)	Tin	8	8					Foc
8271	T-40/15188A	FEX-20	Nos.	10	10					Foc
8272	T-40/15191	COATING-30 3081 (18 Kg)	Nos.	1	1					Foc

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8273	T-40/15191A	POLYSTER RESIN (20Kg)	Nos.	1	1					Foc
8274	T-40/15193A	COATING 12-426-004 (19.5 Kg)	Tin	4	4					Foc
8275	T-40/15194	SD COATING 425-20 (19 Kg)	Tin	2	2					Foc
8276	T-40/15194A	SD COATING 1500 (5.5 Kg)	Tin	1	1					Foc
8277	T-40/15195	COATING NO. 809092 (26 Kg)	Tin	71	71					Foc
8278	T-40/15195A	SR-S70	Tin	240	240					Foc
8279	T-40/15196	BATTERY CELL TFP-2375	Nos.	8	8					Foc
8280	T-40/15196A	G I BOX LARGE	Nos.	3	3					Foc
8281	T-40/15197	G I BOX MEDIUM	Nos.	20	20					Foc
8282	T-40/15197A	SPECIAL COATING FOR TURBINE	Nos.	28	28					Foc
8283	T-40/15198	ELECTROLYTIC SOLERTUM	Nos.	4	4					Foc
8284	T-40/15198A	SPECIAL COATING	Tin	1	1					Foc
8285	T-40/15199	COATING, P.B 60-5273	Tin	2	2					Foc
8286	T-40/15199A	GAL COATING B85-7-3	Tin	2	2					Foc
8287	T-40/15200	COATING, S 250	Tin	1	1					Foc
8288	T-40/15200A	COATING, S-5234	Tin	3	3					Foc
8289	T-40/15201	ETHYLE NEGLY COLE (20 Kg)	Tin	3	3					Foc
8290	T-40/15201A	BITU LUCK COATING	Tin	6	6					Foc
8291	T-41/15201	ETHYLENYLYCOLE, (20Kg)	Tin	3	3					Foc
8292	T-41/15201A	BITULUCK COATING	Tin	6	6					Foc
8293	T-41/15202	ONT DOOR WELL TYPE HAND SET	Nos.	1	1					Foc
8294	T-41/15202A	A/C AND VENTICATION PANNEL	Nos.	1	1					Foc
8295	T-41/15203	A/C AND VENTICATION PANNEL	Nos.	1	1					Foc
8296	T-41/15203A	REFLECTOR FOR S/ROD	Nos.	16	16					Foc
8297	T-41/15204	REFLECTOR FOR D/ROD	Nos.	35	35					Foc
8298	T-41/15204A	EPIPLAST	Nos.	1	1					Foc
8299	T-41/15205	ROVAL COATING 1.Kg	Nos.	348	348					Foc
8300	T-41/15205A	S.COATING FOR GENERATOR	Nos.	25	25					Foc
8301	T-41/15206	GLOBE VALVE, 80A	Nos.	1	1					Foc
8302	T-41/15206A	GATE VALVE, 75A	Nos.	1	1					Foc
8303	T-41/15207	PVC PIPE 35 mm	Nos.	29	29					Foc
8304	T-41/15207A	PVC PIPE 20 mm	Nos.	17	17					Foc

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8305	T-41/15208	PVC PIPE 25 mm	Nos.	5	5					Foc
8306	T-41/15209	BINDING STRIP	Roll	2	2					Foc
8307	T-41/15210	G.I.BOLT 30X5 mm	Kg	1	1					Foc
8308	T-41/15211	HEX BOLT M-12X20	Nos.	2800	2800					Foc
8309	T-41/15211A	ANCHOR BOLT 12CA	Nos.	525	525					Foc
8310	T-41/15212	FLY BOLT	Nos.	3300	3300					Foc
8311	T-41/15212A	S.S BOLT 35X5mm	Nos.	3	3					Foc
8312	T-41/15213	CLAVUS OIL 68	Can	1	1					Foc
8313	T-41/15213A	AUTOMATIC TRANSMISA FLUP (20LIT)	Can	1	1					Foc
8314	T-41/15214	GELO MULTIS	Can	3	3					Foc
8315	T-41/15214A	MULTI PURPOSE AUTOMATION GEAR ORAL 20LIT	Can	3	3					Foc
8316	T-41/15215A	TELLAS OIL, C220	Can	1	1					Foc
8317	T-41/15216	TURBO OIL-T-46	Can	1	1					Foc
8318	T-41/15216A	COSMO TURBINE OIL 46 (20 LIT)	Can	2	2					Foc
8319	T-41/15217	TERRESO OIL 32	Can	1	1					Foc
8320	T-41/15217A	GATE VALVE 75 mm	Nos.	2	2					Foc
8321	T-41/15218	GATE VALVE 100 mm	Nos.	1	1					Foc
8322	T-41/15219	BATTERY ACID	Can	10	10					Foc
8323	T-41/15219A	GATE VALVE 10K 250	Nos.	1	1					Foc
8324	T-41/15220A	M.S. PIPE 15 mm	Nos.	10	10					Foc
8325	T-41/15222	G.I PIPE 54 mm	Nos.	18	18					Foc
8326	T-41/15223	M.S PIPE 20 mm	Nos.	14	14					Foc
8327	T-41/15226	M.S PIPE 65 mm X3-670 Mtrs	Nos.	3	3					Foc
8328	T-41/15226A	G.I.PIPE 70mm	Nos.	1	1					Foc
8329	T-41/15227	M.S BAR 1/2", 2.5MTRS	Nos.	17	17					Foc
8330	T-41/15227A	M.S FLANGE 280 mm	Nos.	1	1					Foc
8331	T-41/15228	G.I. STRIP 1"	Nos.	5	5					Foc
8332	T-41/15228A	PVC FLANGE WITH PIPE	Nos.	1	1					Foc
8333	T-41/15229	GLASS TAP	Roll	4	4					Foc
8334	T-41/15229A	PAPPER TOP	Roll	3	3					Foc
8335	T-41/15230	RUBBER STRIP 40 mm	Nos.	21	21					Foc
8336	T-41/15230A	FILTER	Nos.	2	2					Foc

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8337	T-41/15232	ELEMENT OIL FILTER 31140-03104	Nos.	4	4					Foc
8338	T-41/15232A	CLIP	Nos.	88	88					Foc
8339	T-41/15233	PEACOCK FILTER	Nos.	1	1					Foc
8340	T-41/15233A	U-CLAMP 170 mm	Nos.	9	9					Foc
8341	T-41/15234	HOSE PIPE 1/2	Nos.	50	50					Foc
8342	T-41/15234A	PORCELINE CONNECTOR	Nos.	12	12					Foc
8343	T-41/15236	G.I.WASHER	Set	4	4					Foc
8344	T-41/15236A	SUPPORT	Nos.	4	4					Foc
8345	T-41/15237A	SHADE	Nos.	5	5					Foc
8346	T-41/15238	WASHER 30 mm	Nos.	200	200					Foc
8347	T-41/15238A	CLAMP ANGLE TYPE	Nos.	8	8					Foc
8348	T-41/15240A	M.S PIPE 40 mm	Nos.	1	1					Foc
8349	T-41/15241	M.S PIPE 35 mm	Nos.	1	1					Foc
8350	T-41/15241A	M.S PIPE 20 mm	Nos.	1	1					Foc
8351	T-41/15242	T-BOLT 20X150 mm	Nos.	5	5					Foc
8352	T-41/15243	U-CLAMP 40 mm	Nos.	20	20					Foc
8353	T-41/15244A	U-CLAMP 130 mm	Nos.	5	5					Foc
8354	T-41/15245A	U-CLAMP 240 mm	Nos.	5	5					Foc
8355	T-41/15246	U-CLAMP 300 mm	Nos.	7	7					Foc
8356	T-41/15247	U-CLAMP 100 mm	Nos.	24	24					Foc
8357	T-41/15248	U-CLAMP 40 mm	Nos.	50	50					Foc
8358	T-41/15248A	U-CLAMP 55 mm	Nos.	7	7					Foc
8359	T-41/15249	U-CLAMP 80 mm	Nos.	6	6					Foc
8360	T-41/15249A	U-CLAMP 50 mm X 20 mm	Nos.	2	2					Foc
8361	T-41/15250	U-CLAMP 70 mm	Nos.	6	6					Foc
8362	T-41/15250A	U-CLAMP 65 mm	Nos.	12	12					Foc
8363	T-41/15251	U-CLAMP 80 mm	Nos.	3	3					Foc
8364	T-41/15252	PORCELINE CONNECTOR	Nos.	4	4					Foc
8365	T-41/15252A	EARTHING ROD/ 11KV FUSE LINK	Nos.	5	5					Foc
8366	T-41/15253	AIR CONDITION (DEFECTIVE)	Nos.	2	2					Foc
8367	T-41/15253A	PHOTO STATE MACHINE (DEFECTIVE)	Nos.	1	1					Foc
8368	T-41/15254	BINDING WIRE	Nos.	36	36					Foc

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1	2	3	4	5	6	7	8	10	11	12
8369	T-41/15254A	THREAD	Nos.	8	8					Foc
8370	T-41/15255	PORCELINE CONNECTOR	Nos.	8	8					Foc
8371	T-41/15255A	SCREW	Nos.	1	1					Foc
8372	T-41/15256	BUSH	Nos.	1	1					Foc
8373	T-41/15256A	PEACOCK FILTER	Nos.	1	1					Foc
8374	T-41/15257	K.W. METER	Nos.	1	1					Foc
8375	T-41/15257A	ROUND BRUSH	Nos.	36	36					Foc
8376	T-41/15258	FLANGE WITH ROD	Nos.	2	2					Foc
8377	T-41/15258A	U-CLAMP 240 mm	Nos.	7	7					Foc
8378	T-41/15259	G.I.SOCKET 40mm	Nos.	420	420					Foc
8379	T-41/15259A	G.I.SOCKET 90mm	Nos.	38	38					Foc
8380	T-41/15260	G.I.SOCKET 45 mm (2")	Nos.	230	230					Foc
8381	T-41/15260A	G.I.SOCKET 75 mm	Nos.	410	410					Foc
8382	T-41/15261	G.I.SOCKET 100 mm	Nos.	15	15					Foc
8383	T-41/15262	HORN SPEAKER CT-41-150	Nos.	11	11					Foc
8384	T-41/15262A	U-CHANNEL PIECES 3"	Nos.	15	15					Foc
8385	T-41/15263	FILTER	Nos.	9	9					Foc
8386	T-41/15263A	COUPLING G-42	Nos.	138	138					Foc
8387	T-41/15264	COUPLING G-36	Nos.	1800	1800					Foc
8388	T-41/15264A	SEALING WIRE PIECES	Nos.	3	3					Foc
8389	T-41/15265	TERMINAL BOX	Nos.	10	10					Foc
8390	T-41/15265A	U-CLAMP 570 mm	Nos.	7	7					Foc
8391	T-41/15266	EYE BOLT	Nos.	1	1					Foc
8392	T-41/15266A	PIPE CLAMP 140mm	Nos.	40	40					Foc
8393	T-41/15267	U-CLAMP 200 mm (FLAT)	Nos.	40	40					Foc
8394	T-41/15267A	U-CLAMP 240 mm	Nos.	8	8					Foc
8395	T-41/15268	U-CLAMP 200 mm (ROUND)	Nos.	60	60					Foc
8396	T-41/15268A	EYE HOOK	Nos.	7	7					Foc
8397	T-41/15269	EYE HOOK	Nos.	30	30					Foc
8398	T-41/15270A	M.S TEA 140mm ASSY TYPE	Nos.	1	1					Foc
8399	T-41/15271	LIMIT TORQUE VALVE	Nos.	1	1					Foc
8400	T-41/15271A	I-HOOK	Nos.	60	60					Foc

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8401	T-41/15272	I-HOOK	Nos.	47	47					Foc
8402	T-41/15272A	M.S BEND 45 L degree 340 mm	Nos.	1	1					Foc
8403	T-41/15273	M.S BEND 45 L degree 390 mm	Nos.	1	1					Foc
8404	T-41/15273A	GATE VALVE 10K-150	Nos.	1	1					Foc
8405	T-41/15274A	GATE VALVE 120 mm	Nos.	1	1					Foc
8406	T-41/15275	M.S TEE 380 mm	Nos.	1	1					Foc
8407	T-41/15275A	M.S REDUCER 390X340 mm	Nos.	2	2					Foc
8408	T-41/15276	M.S BEND 150 mm	Nos.	2	2					Foc
8409	T-41/15276A	G.I BEND 45L degree 250 mm	Nos.	2	2					Foc
8410	T-41/15277	G.I BEND 45L degree 200 mm	Nos.	2	2					Foc
8411	T-41/15277A	M.S BEND 45 L degree 150 mm	Nos.	3	3					Foc
8412	T-41/15278	M.S BEND 45 L degree 300 mm	Nos.	2	2					Foc
8413	T-41/15278A	M.S BEND 45 L degree 250 mm	Nos.	5	5					Foc
8414	T-41/15279	M.S BEND 45 degree 340 mm	Nos.	1	1					Foc
8415	T-41/15281A	M.S BEND 250 mm	Nos.	1	1					Foc
8416	T-41/15282	M.S TEE 300 mm	Nos.	2	2					Foc
8417	T-41/15282A	G.I TEE 250 mm	Nos.	2	2					Foc
8418	T-41/15283	REDUCER, 340X200 mm	Nos.	1	1					Foc
8419	T-41/15283A	REDUCER, 340X250 mm	Nos.	2	2					Foc
8420	T-41/15284	REDUCER, 200X250 mm	Nos.	1	1					Foc
8421	T-41/15284A	REDUCER, 200X100 mm	Nos.	2	2					Foc
8422	T-41/15285	R/TEE 200X 100 mm	Nos.	3	3					Foc
8423	T-41/15285A	S.S R/TEE 200X100 mm	Nos.	2	2					Foc
8424	T-41/15286	M.S REDUCER TEE X 200 X 150 mm	Nos.	4	4					Foc
8425	T-41/15286A	G.I TEE 200 mm	Nos.	4	4					Foc
8426	T-41/15287	S.S TEE 200 mm	Nos.	1	1					Foc
8427	T-41/15287A	G.I REDUCER TEE 250X125 mm	Nos.	4	4					Foc
8428	T-41/15288	M.S BEND 300 mm	Nos.	2	2					Foc
8429	T-41/15288A	M.S BEND 250 mm	Nos.	1	1					Foc
8430	T-41/15289	M.S BEND 340 mm	Nos.	2	2					Foc
8431	T-41/15289A	M.S BEND 450 C 300 mm	Nos.	1	1					Foc
8432	T-41/15290	S.S BEND 250 mm	Nos.	2	2					Foc

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8433	T-41/15290A	M.S BEND 300 mm	Nos.	3	3					Foc
8434	T-41/15291	M.S BEND 390 mm	Nos.	2	2					Foc
8435	T-41/15291A	M.S BEND 45 degree 300 mm	Nos.	1	1					Foc
8436	T-41/15292	M.S BEND 340 mm	Nos.	1	1					Foc
8437	T-41/15292A	GATE VALVE 100 mm (4")	Nos.	2	2					Foc
8438	T-41/15293A	GATE VALVE 60 mm	Nos.	2	2					Foc
8439	T-41/15294	G.I BEND 150 mm	Nos.	3	3					Foc
8440	T-41/15294A	G.I BEND 104 mm	Nos.	30	30					Foc
8441	T-41/15295	G.I BEND 92 mm	Nos.	15	15					Foc
8442	T-41/15295A	G.I BEND 70 mm	Nos.	4	4					Foc
8443	T-41/15296	COOLING WATER OUTLET VALVE 100 mm	Nos.	1	1					Foc
8444	T-41/15296A	SUPORO 150-8" VALVE	Nos.	1	1					Foc
8445	T-41/15297	G.I BOX LARGE	Nos.	1	1					Foc
8446	T-41/15297A	WASHER 20 mm	Nos.	12	12					Foc
8447	T-41/15298	S.S PLATE 300X1000 m	Nos.	80	80					Foc
8448	T-41/15299	GATE VALVE A210-2 1/2	Nos.	2	2					Foc
8449	T-41/15299A	G.I BOLT & NUT 130X10 mm	Kg.	300	300					Foc
8450	T-41/15300	M.S FLANGE 190 mm	Nos.	3	3					Foc
8451	T-41/15300A	I HOOK	Nos.	2	2					Foc
8452	T-41/15301	G.I BOLT 150X30 mm	Nos.	8	8					Foc
8453	T-41/15301A	G.I BOLT 85X30 mm	Nos.	69	69					Foc
8454	T-42/15302	G.I HOOK 250 length	Nos.	25	25					Foc
8455	T-42/15302A	G.I STUD 300X25 mm	Nos.	180	180					Foc
8456	T-42/15303	GATE VALVE 200 mm	Nos.	2	2					Foc
8457	T-42/15303A	G.I HOOK	Nos.	300	300					Foc
8458	T-42/15304	G.I WASHER M-10	Nos.	113	113					Foc
8459	T-42/15304A	SOCKET WITH NUT 1 3/4"	Nos.	17	17					Foc
8460	T-42/15305	SOCKET WITH NUT 2"	Nos.	10	10					Foc
8461	T-42/15305A	SOCKET WITH NUT 1 1/4"	Nos.	36	36					Foc
8462	T-42/15306	SOCKET WITH NUT 2 1/2"	Nos.	40	40					Foc
8463	T-42/15306A	PVC CAP 54 mm	Nos.	48	48					Foc
8464	T-42/15307	PVC CAP 28 mm	Nos.	50	50					Foc

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8465	T-42/15307A	G.I CAP 54 mm	Nos.	20	20					Foc
8466	T-42/15308	G.I CAP 42 mm	Nos.	60	60					Foc
8467	T-42/15309	S.S COUPLING 1"	Nos.	12	12					Foc
8468	T-42/15309A	S.S THREAD COUPLING 3/4"	Nos.	18	18					Foc
8469	T-42/15310	M.S COUPLING 1 1/2"	Nos.	3	3					Foc
8470	T-42/15310A	M.S ELBOW 1"	Nos.	1	1					Foc
8471	T-42/15311A	S.S ELBOW 15A	Nos.	3	3					Foc
8472	T-42/15312	S.S COUPLING 25X20A	Nos.	20	20					Foc
8473	T-42/15312A	M.S THREAD COUPLING 50A	Nos.	36	36					Foc
8474	T-42/15313A	S.S COUPLING 50A	Nos.	4	4					Foc
8475	T-42/15314	G.I SOCKET 4 1/2"	Nos.	1	1					Foc
8476	T-42/15314A	S.S REDUCER 3X4"	Nos.	3	3					Foc
8477	T-42/15315	S.S REDUCER 2X3"	Nos.	1	1					Foc
8478	T-42/15315A	G.I SOCKET 1 1/2"	Nos.	195	195					Foc
8479	T-42/15316	G.I SOCKET 1 1/4"	Nos.	236	236					Foc
8480	T-42/15316A	G.I SOCKET 2"	Nos.	200	200					Foc
8481	T-42/15317	S.S ELBOW 2"	Nos.	3	3					Foc
8482	T-42/15317A	M.S CAP 3 1/2"	Nos.	3	3					Foc
8483	T-42/15318	M.S TEE 1 1/2"	Nos.	2	2					Foc
8484	T-42/15318A	M.S TEE 2"	Nos.	12	12					Foc
8485	T-42/15319	M.S TEE 1"	Nos.	16	16					Foc
8486	T-42/15319A	M.S UNION 2"	Nos.	6	6					Foc
8487	T-42/15321	M.S BOLT 2 1/2"	Nos.	12	12					Foc
8488	T-42/15322	G.I BOLT 4"	Nos.	14	14					Foc
8489	T-42/15323	ANCHOR BOLT 19.2 mm	Nos.	40	40					Foc
8490	T-42/15323A	PULL CLAMP LARGE	Nos.	20	20					Foc
8491	T-42/15324	PULL CLAMP SMALL	Nos.	25	25					Foc
8492	T-42/15324A	M.S BOLT NUT 3"	Nos.	18	18					Foc
8493	T-42/15325	M.S BOLT 22X60 mm	Nos.	40	40					Foc
8494	T-42/15325A	M.S BOLT NUT 20X40 mm	Nos.	12	12					Foc
8495	T-42/15327	G.I BOLT/NUT 5 1/2"	Nos.	8	8					Foc
8496	T-42/15327A	M.S STUD BOLT 7 1/2"	Nos.	32	32					Foc

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8497	T-42/15328	ANCHOR BOLT ASSTUD	Nos.	10	10					Foc
8498	T-42/15329A	G.I BOLT/NUT 20X115	Nos.	2	2					Foc
8499	T-42/15330	STUD BOLT 34X240	Nos.	38	38					Foc
8500	T-42/15330A	STUD BOLT 34X280	Nos.	6	6					Foc
8501	T-42/15331A	STEEL STRIP BAND	Roll	5	5					Foc
8502	T-42/15332A	G.I BAND 1 1/2"	Nos.	20	20					Foc
8503	T-42/15333	G.I BAND 1"	Nos.	5	5					Foc
8504	T-42/15333A	S.S FLANGE 6"	Nos.	2	2					Foc
8505	T-42/15334	S.S FLANGE 3 1/2"	Nos.	6	6					Foc
8506	T-42/15336	U BOLT ASSORTED	Nos.	35	35					Foc
8507	T-42/15336A	M.S FLANGE 7"	Nos.	13	13					Foc
8508	T-42/15337A	M.S FLANGE WITH STRIP 7"	Nos.	14	14					Foc
8509	T-42/15338	M.S ELBOW 4"	Nos.	3	3					Foc
8510	T-42/15338A	M.S TEE 4"	Nos.	9	9					Foc
8511	T-42/15339	R/TEE 2X3"	Nos.	2	2					Foc
8512	T-42/15343A	B/NUT 1 1/2"	Nos.	4	4					Foc
8513	T-42/15344A	CHECK NUT 3"	Nos.	65	65					Foc
8514	T-42/15345	G-I NUT 1 1/4"	Nos.	15	15					Foc
8515	T-42/15345A	G-I UNION 1 1/2"	Nos.	25	25					Foc
8516	T-42/15346	G-I UNION 2"	Nos.	10	10					Foc
8517	T-42/15346A	G-I UNION 2"	Nos.	5	5					Foc
8518	T-42/15347	G-I UNION 1 1/4"	Nos.	4	4					Foc
8519	T-42/15348A	FULL COUPLING	Nos.	20	20					Foc
8520	T-42/15349	HALF COUPLING	Nos.	8	8					Foc
8521	T-42/15349A	UNION 1 1/4"	Nos.	1	1					Foc
8522	T-42/15350	COUPLING	Nos.	12	12					Foc
8523	T-42/15350A	COUPLING 3/4"	Nos.	15	15					Foc
8524	T-42/15351	COUPLING	Nos.	15	15					Foc
8525	T-42/15351A	COUPLING 2"	Nos.	3	3					Foc
8526	T-42/15352	S.S CONE 65X50A	Nos.	2	2					Foc
8527	T-42/15352A	S.S CONE 1"X 2 1/2"	Nos.	4	4					Foc
8528	T-42/15353	M.S COUPLING 1/2"	Nos.	15	15					Foc

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1	2	3	4	5	6	7	8	10	11	12
8529	T-42/15353A	SOCKET 1 1/4"	Nos.	3	3					Foc
8530	T-42/15354	M.S ELBOW 25A	Nos.	8	8					Foc
8531	T-42/15354A	M.S ELBOW 20A	Nos.	1	1					Foc
8532	T-42/15355A	M.S ELBOW 1/2"	Nos.	13	13					Foc
8533	T-42/15356	M.S ELBOW 10A	Nos.	8	8					Foc
8534	T-42/15357A	M.S ELBOW 25A	Nos.	2	2					Foc
8535	T-42/15358	S.S TEE 15A	Nos.	5	5					Foc
8536	T-42/15358A	S.S ELBOW 1/2"	Nos.	2	2					Foc
8537	T-42/15359	S.S TEE 1/2"	Nos.	1	1					Foc
8538	T-42/15359A	M.S ELBOW 1"	Nos.	26	26					Foc
8539	T-42/15360	M.S TEE 20A	Nos.	10	10					Foc
8540	T-42/15360A	S.S TEE 50A	Nos.	1	1					Foc
8541	T-42/15361A	COTTON TAPE ASSORTED	Nos.	75	75					Foc
8542	T-42/15362	GLASS TAP	Nos.	2	2					Foc
8543	T-42/15362A	PLASTIC TAP	Nos.	3	3					Foc
8544	T-42/15363	ANCHOR BOLT	Nos.	13	13					Foc
8545	T-42/15363A	PVC CAP ASSORTED	Nos.	295	295					Foc
8546	T-42/15364	FLY BOLT	Nos.	20	20					Foc
8547	T-42/15364A	HIGH GLASS LUBRICATORS	Nos.	2	2					Foc
8548	T-42/15365	INSTRUMENT WIRE	Nos.	3	3					Foc
8549	T-42/15365A	STAINER	Nos.	3	3					Foc
8550	T-42/15366	I- BOOK	Nos.	12	12					Foc
8551	T-42/15366A	S.S STRIP ASSORTED	Nos.	110	110					Foc
8552	T-42/15367	M.S FLANGE 6"	Nos.	5	5					Foc
8553	T-42/15367A	G.I BAND 1 1/2"	Nos.	4	4					Foc
8554	T-42/15368	G.I BAND 1 1/4"	Nos.	2	2					Foc
8555	T-42/15368A	G.I BAND 1"	Nos.	4	4					Foc
8556	T-42/15369	G.I BAND 3"	Nos.	1	1					Foc
8557	T-42/15369A	FUSE LINK	Nos.	6	6					Foc
8558	T-42/15370	U-CLAMP 8"	Nos.	5	5					Foc
8559	T-42/15370A	CYLINDER	Nos.	3	3					Foc
8560	T-42/15371	U-CLAMP PIECES	Nos.	8	8					Foc

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1	2	3	4	5	6	7	8	10	11	12
8561	T-42/15371A	VALVE TRAP	Nos.	1	1					Foc
8562	T-42/15372	FILTER	Nos.	1	1					Foc
8563	T-42/15372A	CLAMP	Nos.	6	6					Foc
8564	T-42/15373	U-BAND (S.S)	Nos.	1	1					Foc
8565	T-42/15373A	OIL SAMPLING PLUG	Nos.	3	3					Foc
8566	T-42/15374	FLANGE SAMPLING SET	Nos.	1	1					Foc
8567	T-42/15374A	FLANGE WITH ROD	Nos.	1	1					Foc
8568	T-42/15375	U-BOLT 2"	Nos.	7	7					Foc
8569	T-42/15375A	ADHESIVE TAP	Nos.	4	4					Foc
8570	T-42/15376	GATE VALVE 1"	Nos.	1	1					Foc
8571	T-42/15376A	M.S FLANGE 5"	Nos.	5	5					Foc
8572	T-42/15377A	INLET VALVE	Nos.	2	2					Foc
8573	T-42/15378	PVC TAP	Nos.	15	15					Foc
8574	T-42/15378A	M.S TEE 2"	Nos.	1	1					Foc
8575	T-42/15379	CABLE DUCK	Nos.	1	1					Foc
8576	T-42/15379A	M.S SHEET 2X10 ft	Nos.	1	1					Foc
8577	T-42/15380	BOLT NUT WITH BASE PLATE 4"X4"	Nos.	1190	1190					Foc
8578	T-42/15380A	M.S TEE 250A	Nos.	2	2					Foc
8579	T-42/15381	M.S TEE 150 mm	Nos.	1	1					Foc
8580	T-42/15381A	EXCIDE BATTERY (UN SERVICE ABLE)	Nos.	2	2					Foc
8581	T-42/15382	NUT BOLT ASSORTED	Nos.	146	146					Foc
8582	T-43/13405	SOCKET TOOL BOX (10MM to 32 MM)	Nos.	18	18					Foc
8583	T-43/13405A	LONG EXTENSION	Nos.	1	1					Foc
8584	T-43/13406	SPEEDER	Nos.	1	1					Foc
8585	T-43/13406A	SLIDING HANDLE	Nos.	1	1					Foc
8586	T-43/13407	REVERSEABLE RATCHET	Nos.	1	1					Foc
8587	T-43/13407A	SHORT EXTENSION	Nos.	1	1					Foc
8588	T-43/13408	UNIVERSAL JOINT	Nos.	1	1					Foc
8589	T-43/13408A	TOOL BOX FOR SOCKET WRENCH	Nos.	1	1					Foc
8590	T-43/13410A	DIAGONAL CUTTING PLIERS	Nos.	1	1					Foc
8591	T-43/13418A	ROUND NOSE PLIERS	Nos.	7	7					Foc
8592	T-43/13419A	SCREW DRIVER	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
8593	T-43/13420A	SOCKET TOOL BOX (10 MM to 32 MM)	Nos.	1	1					Foc
8594	T-43/13421	LONG EXTENSION	Nos.	1	1					Foc
8595	T-43/13421A	SPEEDER	Nos.	1	1					Foc
8596	T-43/13422	SLIDING HANDLE	Nos.	1	1					Foc
8597	T-43/13422A	REVERSIABLE RACHET	Nos.	1	1					Foc
8598	T-43/13423	SHORT EXTENSION	Nos.	24	24					Foc
8599	T-43/13423A	UNIVERSAL JOINT	Nos.	1	1					Foc
8600	T-43/13424	TOOL BOX FOR SOCKET WRENCH	Nos.	1	1					Foc
8601	T-43/13427A	SCREW DRIVER +	Nos.	1	1					Foc
8602	T-43/13428	SCREW DRIVER +	Nos.	1	1					Foc
8603	T-43/13434	ROUND NOSE PLIER	Nos.	1	1					Foc
8604	T-43/13434A	MONKEY PLIER	Nos.	1	1					Foc
8605	T-43/13436	D-ENDED SPANNER 8X10, B54-7	Nos.	1	1					Foc
8606	T-43/13436A	D-ENDED SPANNER 13X17, B54-8	Nos.	1	1					Foc
8607	T-43/13437	D-ENDED SPANNER 17X19, B54-9	Nos.	1	1					Foc
8608	T-43/13437A	D-ENDED SPANNER 22X24, B54-10	Nos.	1	1					Foc
8609	T-43/13438	MONKEY WRENCH, B-54-11	Nos.	1	1					Foc
8610	T-43/13438A	SCREW DRIVER 011-100,B54-12	Nos.	1	1					Foc
8611	T-43/13439	HAND HAMMER 011-1, B-54-13	Nos.	1	1					Foc
8612	T-43/13439A	MALLET, 011-300, B-54-14	Nos.	1	1					Foc
8613	T-43/13440	TOOL BOX NO-2, B-54-15	Nos.	1	1					Foc
8614	T-43/13449	BOX SPANNER 031-32-B-55-5	Nos.	1	1					Foc
8615	T-43/13450	TOOL BOX NO-1, B-55-7	Nos.	1	1					Foc
8616	T-43/13450A	BOX SPANNER 031-27-B-46-7	Nos.	1	1					Foc
8617	T-43/13451A	TOOL BOX NO-1, B-46-9	Nos.	1	1					Foc
8618	T-43/13452	BOX SPANNER 031-27-B-47-8	Nos.	1	1					Foc
8619	T-43/13452A	GLAND PACKING EXTRACTOR 1& 11-9	Nos.	1	1					Foc
8620	T-43/13453	IMPELLAR EXTRACTOR 1, B-47-10	Nos.	1	1					Foc
8621	T-43/13453A	IMPELLAR EXTRACTOR 2, B-47-11	Nos.	1	1					Foc
8622	T-43/13454	TOOL BOX NO-1, B-47-12	Nos.	1	1					Foc
8623	T-43/13454A	SCREW WRENCH-B-80-66-1	Nos.	1	1					Foc
8624	T-43/13455	PRESSURE GAUGE B-80-66-2	Nos.	1	1					Foc

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8625	T-43/13455A	ALENKEY 3 mm, B-80-66-3	Nos.	1	1					Foc
8626	T-43/13456	ALENKEY 6 mm, B-80-66-4	Nos.	1	1					Foc
8627	T-43/13456A	D-END WRENCH 17X 19, B-80-66-5	Nos.	1	1					Foc
8628	T-43/13457	CAP NUT-B-80-66-6	Nos.	1	1					Foc
8629	T-43/13457A	WASHER, B-80-66-7	Nos.	1	1					Foc
8630	T-43/13458	SCREW DRIVER, B-80-66-8	Nos.	1	1					Foc
8631	T-43/13458A	SCREW DRIVER, B-80-66-9	Nos.	1	1					Foc
8632	T-43/13459	TOOL BOX	Nos.	1	1					Foc
8633	T-43/13468A	AIR WATER GUN, M-012	Nos.	1	1					Foc
8634	B-01/2002	Flexeble Hose 300axa400Ac (A15M.006)	Nos.	1	1					Foc
8635	2003	Flexeble Hose 200Ax1200Ac (A15M.007)	Nos.	1	1					Foc
8636	2004	Flexeble Hose 150Ax1100AC (A15M.008)	Nos.	1	1					Foc
8637	2006	Flexeble Hose 80Ax700AC (A15M.012)	Nos.	1	1					Foc
8638	2008	Flexeble Hose 50Ax600AC (A15M.014)	Nos.	1	1					Foc
8639	2009	Flexeble Hose 40Ax600AC (A15M.015)	Nos.	1	1					Foc
8640	2011	Light Castable (A05M008)	Nos.	2	2					Foc
8641	2012	Plastic Refractory (A05M009)	Nos.	1	1					Foc
8642	2013	Glass Far Flow (A19M 3390)	Nos.	2	2					Foc
8643	2014	Gasket for Flow (A19M3391)	Nos.	2	2					Foc
8644	2015	Gasket for Flow (A19M3392)	Nos.	2	2					Foc
8645	2016	Gasket for Flow (A19M3393)	Nos.	2	2					Foc
8646	2017	Gasket for Flow (A19M3394)	Nos.	2	2					Foc
8647	2018	Gasket for Flow (A19M3395)	Nos.	2	2					Foc
8648	2019	Gasket for Flow (A19M3396)	Nos.	2	2					Foc
8649	2020	Gasket for Flow (A19M3397)	Nos.	2	2					Foc
8650	2021	Gasket for Flow (A19M3398)	Nos.	2	2					Foc
8651	2022	Gasket for Flow (A19M3399)	Nos.	2	2					Foc
8652	2023	Gasket for Flow (A19M3400)	Nos.	2	2					Foc
8653	2024	Gasket for Flow (A19M3401)	Nos.	2	2					Foc
8654	2025	Gasket for Flow (A19M3402)	Nos.	2	2					Foc
8655	2026	Gasket for Flow (A19M3403)	Nos.	2	2					Foc
8656	2027	Gasket for Flow (A19M3404)	Nos.	2	2					Foc

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8657	2028	Pressure Switch E12M016	Nos.	1	1					Foc
8658	2033	Thermocaple (A20M019)	Nos.	1	1					Foc
8659	2036	Thermocaple (A20M022)	Nos.	1	1					Foc
8660	2037	Thermocaple (A20M023)	Nos.	1	1					Foc
8661	2038	Thermocaple (A20M024)	Nos.	1	1					Foc
8662	2039	Thermocaple (A20M025)	Nos.	1	1					Foc
8663	2041	Resistance Bulb (A20M028)	Nos.	1	1					Foc
8664	2042	Thermocaple (A20M029)	Nos.	1	1					Foc
8665	2043	Thermocaple (A20M030)	Nos.	1	1					Foc
8666	2044	Thermocaple (A20M031)	Nos.	1	1					Foc
8667	2045	Thermocaple (A20M037)	Nos.	1	1					Foc
8668	2046	Thermocaple (A20M038)	Nos.	1	1					Foc
8669	2047	Thermocaple (A20M041)	Nos.	1	1					Foc
8670	2048	Level Transmetter (A20M042)	Nos.	1	1					Foc
8671	2050	Level Transmetter (A20M044)	Nos.	1	1					Foc
8672	2052	Power Supply for ABS Cabinat (A20M205)	Nos.	1	1					Foc
8673	2056	Timer For ABS Cabinat (A20M209)	Nos.	1	1					Foc
8674	2057	Power Supply for ABS Cabinat (A20M210)	Nos.	1	1					Foc
8675	2060	Fuse for ABS Cabinat (A20 M213)	Nos.	22	22					Foc
8676	2061	Fuse for ABS Cabinat (A20 M214)	Nos.	18	18					Foc
8677	2066	Flexible Hose (A16 M007)	Nos.	2	2					Foc
8678	2068	Flexible Hose (A16 M009)	Nos.	1	1					Foc
8679	2069	Flexible Hose (A17 M001)	Nos.	3	3					Foc
8680	2070	Flexible Hose (A17 M002)	Nos.	1	1					Foc
8681	2073	Diaphragam (A19M1229)	Nos.	1	1					Foc
8682	2074	Diaphragam (A19M1230)	Nos.	1	1					Foc
8683	2075	Diaphragam (A19M1231)	Nos.	1	1					Foc
8684	2076	Diaphragam (A19M1232)	Nos.	1	1					Foc
8685	2077	Diaphragam (A19M1233)	Nos.	1	1					Foc
8686	2078	Diaphragam (A19M1234)	Nos.	1	1					Foc
8687	2079	Positioner (A20M068)	Nos.	1	1					Foc
8688	2081	Positioner (A20M070)	Nos.	1	1					Foc

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8689	2082	Positioner (A20M071)	Nos.	1	1					Foc
8690	2083	Positioner (A20M072)	Nos.	1	1					Foc
8691	2084	Positioner (A20M073)	Nos.	1	1					Foc
8692	2085	Positioner (A20M074)	Nos.	1	1					Foc
8693	2086	Positioner (A20M075)	Nos.	1	1					Foc
8694	2087	Positioner (A20M076)	Nos.	1	1					Foc
8695	2090	11 Nozzle (A20M079)	Nos.	1	1					Foc
8696	2091	12 Nozzle (A20M080)	Nos.	1	1					Foc
8697	2092	15 Nozzle (A20M081)	Nos.	1	1					Foc
8698	2093	Plug 5/A 8"xFull (A20M082)	Nos.	1	1					Foc
8699	2094	Plug 5/A 6"x4" Liner (A20M083)	Nos.	1	1					Foc
8700	2095	Plug 5/A 3"x2" (A20 M084)	Nos.	1	1					Foc
8701	2096	Plug 5/A 11/2"x1 (A20M850)	Nos.	2	2					Foc
8702	2097	Plug 5/A 1"XCr=0.6 (A20M086)	Nos.	2	2					Foc
8703	2098	Plug 5/A 2"xFull (A20M087)	Nos.	1	1					Foc
8704	2099	Plug 5/A 3"xCV=31 Liner (A20M088)	Nos.	1	1					Foc
8705	2100	Plug 5/A 2"x1/2" Liner (A20M089)	Nos.	1	1					Foc
8706	2101	Plug 5/A 8"xFull (A20M090)	Nos.	1	1					Foc
8707	2102	Plug 5/A 1 1/2""xC.V=6 Linner (A20M091)	Nos.	1	1					Foc
8708	2103	Seal Ring 8"xFull (A20M092)	Nos.	1	1					Foc
8709	2104	Seal Ring 6"x4" (A20M093)	Nos.	1	1					Foc
8710	2105	Seal Ring 3"x2" (A20M094)	Nos.	1	1					Foc
8711	2106	Seal Ring 1 1/2"x1" (A20M095)	Nos.	2	2					Foc
8712	2107	Seal Ring 1"xCV06 (A20M096)	Nos.	2	2					Foc
8713	2108	Seal Ring 2"xFull	Nos.	1	1					Foc
8714	2109	Seal Ring 3"C.V=31 (A20M098)	Nos.	1	1					Foc
8715	2110	Seal Ring 2"x1 1/2" (A20M099)	Nos.	1	1					Foc
8716	2111	Seal Ring 8"x Full (A20M100)	Nos.	1	1					Foc
8717	2112	Seal Ring 1/2xCV=6 (A20M101)	Nos.	1	1					Foc
8718	2113	Body Gaskit (A20M102)	Nos.	1	1					Foc
8719	2114	Body Gasket A-20 M-103	Nos.	12	12					Foc
8720	2115	Body Gasket A-20 M-104	Nos.	4	4					Foc

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1	2	3	4	5	6	7	8	10	11	12
8721	2116	Body Gasket A-20 M-105	Nos.	1	1					Foc
8722	2117	Body Gasket A-20 M-106	Nos.	1	1					Foc
8723	2118	Body Gasket A-20 M-107	Nos.	5	5					Foc
8724	2119	Body Gasket A-20 M-108	Nos.	1	1					Foc
8725	2120	Body Gasket A-20 M-109	Nos.	1	1					Foc
8726	2121	Body Gasket A-20 M-110	Nos.	4	4					Foc
8727	2122	Body Gasket A-20 M-111	Nos.	1	1					Foc
8728	2123	Body Gasket A-20 M-112	Nos.	2	2					Foc
8729	2124	Body Gasket A-20 M-113	Nos.	1	1					Foc
8730	2125	Body Gasket A-20 M-114	Nos.	2	2					Foc
8731	2126	Body Gasket A-20 M-115	Nos.	1	1					Foc
8732	2127	Seal Ring Gaskit (A20M116)	Nos.	1	1					Foc
8733	2128	Seal Ring Gaskit (A20M117)	Nos.	1	1					Foc
8734	2129	Seal Ring Gaskit (A20M118)	Nos.	2	2					Foc
8735	2130	Seal Ring Gaskit (A20M119)	Nos.	2	2					Foc
8736	2131	Seal Ring Gaskit (A20M120)	Nos.	1	1					Foc
8737	2132	Seal Ring Gaskit (A20M121)	Nos.	4	4					Foc
8738	2133	Seal Ring Gaskit (A20M122)	Nos.	5	5					Foc
8739	2134	Seal Ring Gaskit (A20M123)	Nos.	2	2					Foc
8740	2135	Gaskit Seal Ring (A20M124)	Nos.	2	2					Foc
8741	2136	Packing (A20M125)	Nos.	112	112					Foc
8742	2137	Packing (A20M126)	Nos.	8	8					Foc
8743	2138	Packing (A20M127)	Nos.	24	24					Foc
8744	2139	Packing (A20M128)	Nos.	32	32					Foc
8745	2140	Packing (A20M129)	Nos.	21	21					Foc
8746	2141	Packing (A20M130)	Nos.	20	20					Foc
8747	2142	Packing (A20M131)	Nos.	33	33					Foc
8748	2143	Packing (A20M132)	Nos.	28	28					Foc
8749	2144	Booster Relay (A20M133)	Nos.	1	1					Foc
8750	2145	Lack up Valve (A20M134)	Nos.	1	1					Foc
8751	2146	Transfer Valve (A20M135)	Nos.	1	1					Foc
8752	2147	Transfer Valve (A20M136)	Nos.	1	1					Foc

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8753	2150	Solonide Valve (A20M139)	Nos.	1	1					Foc
8754	2152	Gland Packing (A20M141)	Nos.	1	1					Foc
8755	2153	Gasket (A20M142)	Nos.	1	1					Foc
8756	2154	Gasket (A20M143)	Nos.	2	2					Foc
8757	2155	Gasket (A20M144)	Nos.	1	1					Foc
8758	2156	Gasket (A20M145)	Nos.	1	1					Foc
8759	2157	Gasket (A20M146)	Nos.	2	2					Foc
8760	2158	Gland Packing (A20M147)	Nos.	1	1					Foc
8761	2159	Gaskit (A20M148)	Nos.	1	1					Foc
8762	2160	Gaskit (A20M149)	Nos.	2	2					Foc
8763	2161	Gland Packing (A20M150)	Nos.	1	1					Foc
8764	2162	Gasket (A20M151)	Nos.	2	2					Foc
8765	2163	Gasket (A20M153)	Nos.	2	2					Foc
8766	2164	Gland Packing (A20M152)	Nos.	1	1					Foc
8767	2165	Gland Packing (A20M154)	Nos.	1	1					Foc
8768	2166	Gasket (A20M155)	Nos.	2	2					Foc
8769	2167	Gland Paking (A20M156)	Nos.	1	1					Foc
8770	2168	Gasket (A20M157)	Nos.	2	2					Foc
8771	2169	Gland Packing (A20M158)	Nos.	2	2					Foc
8772	2170	Gasket (A20A159)	Nos.	4	4					Foc
8773	2180	Reamer Bolt (B01M003)	Nos.	4	4					Foc
8774	2181	Nut For Reamer Bolt (B01M004)	Nos.	4	4					Foc
8775	2193	Crass Guide Head Packing (B01M016)	Set	1	1					Foc
8776	2194	Clear Plate Packing (B01M017)	Nos.	2	2					Foc
8777	2195	SD Flange Packing (B01M018)	Nos.	2	2					Foc
8778	2196	Bearing Housing Packing (B01M019)	Nos.	1	1					Foc
8779	2197	Bearing Couer Packing (B01M020)	Nos.	1	1					Foc
8780	2199	Side Cover Paking (B01M022)	Nos.	2	2					Foc
8781	2204	Oil Infue Packing (B01M027)	Nos.	1	1					Foc
8782	2205	Oil Pump Packing (B01M028)	Nos.	1	1					Foc
8783	2206	Flange Packing (B01M029)	Nos.	1	1					Foc
8784	2207	Jacket Couer Packing (B01M030)	Nos.	1	1					Foc

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8785	2208	Jacket Couer Packing (B01M031)	Nos.	1	1					Foc
8786	2209	Gland Paking for Valve (B01M032)	Nos.	3	3					Foc
8787	2210	Gland Packing For Valve (B01M033)	Nos.	7	7					Foc
8788	2211	Gland Packing For Valve (B01M034)	Nos.	18	18					Foc
8789	2212	Gland Packing For Valve (B01M035)	Nos.	6	6					Foc
8790	2213	Gland Packing For Valve (B01M036)	Nos.	24	24					Foc
8791	2214	Gland Packing For Valve (B01M037)	Nos.	26	26					Foc
8792	2215	Packing for Valve (B01M038)	Nos.	3	3					Foc
8793	2216	Packing for Valve (B01M039)	Nos.	4	4					Foc
8794	2217	Packing for Valve (B01M040)	Nos.	4	4					Foc
8795	2218	Packing for Valve (B01M041)	Nos.	6	6					Foc
8796	2219	Smal End Metal (B02M001)	Nos.	2	2					Foc
8797	2221	Reamer Bolt (B02M003)	Nos.	8	8					Foc
8798	2222	Nut for Roumer Bolt (B02M004)	Nos.	8	8					Foc
8799	2235	Distance Pice Packing (B02M017)	Nos.	2	2					Foc
8800	2236	Cylinder Packing (B02M018)	Nos.	1	1					Foc
8801	2237	Cylinder Packing (B02M019)	Nos.	1	1					Foc
8802	2240	Gross Head Packing (B02M022)	Nos.	4	4					Foc
8803	2241	S.D Flange Packing (B02M023)	Nos.	2	2					Foc
8804	2242	S.D Flange Packing (B02M024)	Nos.	2	2					Foc
8805	2243	Bearing Houssing Packing (B02M025)	Nos.	1	1					Foc
8806	2244	Bearing Houssing Packing (B02M026)	Nos.	1	1					Foc
8807	2245	Bearing Couer Packing (B02M027)	Nos.	1	1					Foc
8808	2246	Bearing Couer Paking (B02M028)	Nos.	1	1					Foc
8809	2247	Side Cover Paking (B02M029)	Nos.	4	4					Foc
8810	2249	Side Cover Paking (B02M031)	Nos.	4	4					Foc
8811	2253	Valve Packing (B02M035)	Nos.	2	2					Foc
8812	2263	Copper Packing (B02M045)	Nos.	16	16					Foc
8813	2264	Copper Packing (B02M046)	Nos.	4	4					Foc
8814	2265	Oil Seal (B02M048)	Nos.	1	1					Foc
8815	2267	Gasket for Air Breaker (B02M050)	Nos.	1	1					Foc
8816	2268	Gasket for Hand Pump (B02M051)	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
8817	2269	Gasket for Oil Pump (B02M052)	Nos.	1	1					Foc
8818	2271	Gasket (B02M054)	Nos.	1	1					Foc
8819	2273	Gasket for C.W Flange (B02M056)	Nos.	4	4					Foc
8820	2275	Gland Paking for Valve (B02M058)	Nos.	4	4					Foc
8821	2277	Gland Packing for Valve (B02M060)	Nos.	42	42					Foc
8822	2278	Gland Packing for Valve (B02M061)	Nos.	24	24					Foc
8823	2280	Gland Packing for Valve (B02M063)	Nos.	48	48					Foc
8824	2282	Packing For Valve (B02M065)	Nos.	11	11					Foc
8825	2283	Packing For Valve (B02M066)	Nos.	8	8					Foc
8826	2284	Packing For Valve (B02M067)	Nos.	8	8					Foc
8827	2291	Level Switch (B03M054)	Nos.	1	1					Foc
8828	2292	Level Switch (B03M055)	Nos.	1	1					Foc
8829	2293	Pen Cartidge (Red) (B03M050)	Nos.	4	4					Foc
8830	2294	Pen Cartidge (Green) (B03M051)	Nos.	4	4					Foc
8831	2295	Fush for Racarder (B03M053)	Nos.	2	2					Foc
8832	2296	Pen Cartidge (Red) (B04M013)	Nos.	2	2					Foc
8833	2297	Pen Cartidge (B04M014)	Nos.	2	2					Foc
8834	2298	Pen Cartidge (Blue) (B04M015)	Nos.	2	2					Foc
8835	2299	Ink Ribban (B04M0016)	Nos.	4	4					Foc
8836	2300	Chart HP-100 (B04M017) B9565AW	Nos.	48	48					Foc
8837	2302	Fuse for Recarder (B04M019)	Nos.	2	2					Foc
8838	2303	PH Combinate Electrode (B04M001)	Nos.	1	1					Foc
8839	2304	Dissolued Oxy Analyzer Prabe (B04M021)	Nos.	1	1					Foc
8840	2306	Hyderazine Cell (B04M023)	Nos.	1	1					Foc
8841	2308	Switch Manual Regulator (A-20 M-221)	Nos.	1	1					Foc
8842	2309	Bearing for Pump (E10M015)	Nos.	1	1					Foc
8843	2310	Bearing for Pump (E10M016)	Nos.	3	3					Foc
8844	2311	Mechanical Seal (E10M017)	Nos.	1	1					Foc
8845	2314	Remmer Bolt (E16M003)	Nos.	2	2					Foc
8846	2315	Nut for Reamer Bolt (E16M004)	Nos.	2	2					Foc
8847	2333	Diaphragm (E16M022)	Nos.	2	2					Foc
8848	2336	Oil Seal (E16M025)	Nos.	1	1					Foc

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8849	2237	Copper Paking (E16M026)	Nos.	1	1					Foc
8850	2341	Gland Packing Valve (E16M030)	Nos.	1	1					Foc
8851	2342	Gland Paking for Valve (E16M31)	Nos.	2	2					Foc
8852	2343	Gland Paking for Valve (E16M32)	Nos.	6	6					Foc
8853	2344	Gland Paking for Valve (E16M33)	Nos.	12	12					Foc
8854	2345	Gland Paking for Valve (E16M34)	Nos.	6	6					Foc
8855	2346	Packing For Valve (E16M035)	Nos.	3	3					Foc
8856	2347	Paking for Valve (E16M036)	Nos.	3	3					Foc
8857	2348	Paking for Valve (E16M0367)	Nos.	6	6					Foc
8858	2351	Controll Switch (E12M017)	Nos.	1	1					Foc
8859	2352	Diaphragme(#3)ACT,PV1023(E12M007)	Nos.	1	1					Foc
8860	2353	Flexible Hose With Copuling (E10M007)	Nos.	5	5					Foc
8861	2354	Flexible Hose With Copuling (E10M008)	Nos.	5	5					Foc
8862	2355	Controll Switch (A20M232)	Nos.	1	1					Foc
8863	2356	Fuse (B04R004)	Nos.	7	7					Foc
8864	2357	Battery (Cell) (B04M005)	Nos.	7	7					Foc
8865	2358	Dirrolued Oxy Analyzer Probe (B04R008)	Nos.	3	3					Foc
8866	2359	Flow Through Adaptan Kit (B04R009)	Nos.	2	2					Foc
8867	2360	Fuse (B04T010)	Nos.	2	2					Foc
8868	2361	Battery (Cell) (B04M011)	Nos.	2	2					Foc
8869	2362	Meter (B04R012)	Nos.	2	2					Foc
8870	2363	Cble Assy (B04R013)	Nos.	2	2					Foc
8871	2364	Relay (B04R014)	Nos.	2	2					Foc
8872	2365	Battery (Cell)	Nos.	3	3					Foc
8873	2366	PH Temperture Sensor (B04R017)	Nos.	1	1					Foc
8874	2367	Maintenance Kit (B04R018)	Nos.	6	6					Foc
8875	2368	Pre Amplifier (B04R019)	Nos.	1	1					Foc
8876	2369	Fuse (B04R020)	Nos.	3	3					Foc
8877	2370	PH Combinate Electrode (B04M021)	Nos.	7	7					Foc
8878	2371	Electro Chemical Cell (B04R022)	Nos.	1	1					Foc
8879	2372	Filling Gel (B04R023)	Pkt	20	20					Foc
8880	2373	O Ring (B04R024)	Nos.	2	2					Foc

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8881	2374	Fuse (B04R027)	Nos.	1	1					Foc
8882	2375	Float for Sight Flow (B04R028)	Set	1	1					Foc
8883	2376	Float for Sight Flow (B04R029)	Set	5	5					Foc
8884	2377	Sheet Paking for Sight Flow (B04R030)	Set	6	6					Foc
8885	2378	Sheet Paking for Sight Flow (B04R031)	Nos.	30	30					Foc
8886	2379	Cuslion Packing For Sight Flow (B04R032)	Nos.	6	6					Foc
8887	2380	Cuslion Packing For Sight Flow (B04R033)	Nos.	30	30					Foc
8888	2381	Gasket for Sampling Cooler (B04R034)	Nos.	10	10					Foc
8889	2382	Gasket for Sampling Cooler (B04R035)	Nos.	4	4					Foc
8890	2383	Gasket for Sampling Cooler (B04R036)	Nos.	16	16					Foc
8891	2384	Spindle for Pressure Reducer (B04R037)	Nos.	18	18					Foc
8892	2385	Paking (B04R038)	Nos.	18	18					Foc
8893	2388	O Ring (B04R041)	Nos.	8	8					Foc
8894	2389	O Ring (B04R042)	Nos.	26	26					Foc
8895	2390	Tapered Tube	Nos.	13	13					Foc
8896	2391	Float (B04R044)	Nos.	5	5					Foc
8897	2393	Coolur & Heater Unit (B04R046)	Nos.	1	1					Foc
8898	2394	Cartridge Heater (B04R055)	Nos.	1	1					Foc
8899	2395	Thermoresistance Bulb (B04R056)	Nos.	1	1					Foc
8900	2396	Fuse (B04R057)	Nos.	3	3					Foc
8901	2397	Power Supply Unit (B04R058)	Nos.	1	1					Foc
8902	2398	Fuse (B04R063)	Nos.	3	3					Foc
8903	2399	Contact Head Vessel (B04R064)	Nos.	1	1					Foc
8904	2400	Cooler Type 404 (B04R065)	Nos.	1	1					Foc
8905	B-3/2401	AUTO CONFLOM MAIN BODY (B04R066)	Nos.	1	1					Foc
8906	B-3/2402	Diaphragm For Air Open Valve (B04R067)	Nos.	1	1					Foc
8907	B-3/2403	O Ring (A.O.V) (B04R068)	Nos.	1	1					Foc
8908	B-3/2404	Piston Dismount Tool (B04R260)	Nos.	1	1					Foc
8909	B-3/2405	Hexg:Head Bolt (B04R261)	Nos.	1	1					Foc
8910	B-3/2406	Eye Bold (B04R262)	Nos.	1	1					Foc
8911	B-3/2407	Open Ended Spanner 80mm (B04R263)	Nos.	1	1					Foc
8912	B-3/2408	O.E Spanner 60mm (B04R264)	Nos.	1	1					Foc

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8913	B-3/2409	O.E Spanner 41mm (B04R265)	Nos.	1	1					Foc
8914	B-3/2410	Socket Screem (L.Key) (B04R266)	Nos.	1	1					Foc
8915	B-3/2411	Piston Dismount Tool (B04R270)	Nos.	1	1					Foc
8916	B-3/2412	Valve Diamound Tool (B04R271)	Nos.	1	1					Foc
8917	B-3/2413	Hex:Head Bolt (B04R272)	Nos.	1	1					Foc
8918	B-3/2414	Turning Bar (B04R273)	Nos.	1	1					Foc
8919	B-3/2415	Eye Bold (B04R274)	Nos.	1	1					Foc
8920	B-3/2416	Tool Bar (W) (B04R275)	Nos.	1	1					Foc
8921	B-3/2417	O.E Spanner 80 Mm (B04R276)	Nos.	1	1					Foc
8922	B-3/2418	O.E Spanner 41 Mm (B04R277)	Nos.	1	1					Foc
8923	B-3/2419	Copper Spanner (B04R280)	Nos.	6	6					Foc
8924	B-3/2420	Hex:Warnch Key (L.Key)Hx2 (B04R281)	Nos.	6	6					Foc
8925	B-3/2421	Hex:Warnch Key (L.Key)Hx2.5 (B04R282)	Nos.	6	6					Foc
8926	B-3/2422	Hex:Warnch Key (L.Key)Hx3 (B04R283)	Nos.	6	6					Foc
8927	B-3/2423	Hex:Warnch Key (L.Key)Hx4 (B04R284)	Nos.	4	4					Foc
8928	B-3/2424	Hex:Warnch Key (L.Key)Hx5 (B04R285)	Nos.	6	6					Foc
8929	B-3/2425	Hex:Warnch Key (L.Key)Hx6 (B04R286)	Nos.	6	6					Foc
8930	B-3/2426	Hex:Warnch Key (L.Key)Hx10 (B04R287)	Nos.	2	2					Foc
8931	B-3/2427	Tool Box Iron (B04R288)	Nos.	1	1					Foc
8932	B-3/2428	Piston Dismount Tool (B04R350)	Nos.	1	1					Foc
8933	B-3/2429	Hexagon Head Bolt 8x20 (B04R351)	Nos.	1	1					Foc
8934	B-3/2430	Open End Spanner 55mm (B04R352)	Nos.	1	1					Foc
8935	B-3/2431	Open End Spanner 36mm (B04R353)	Nos.	1	1					Foc
8936	B-3/2432	Socket Screem (L.Key) (B04R354)	Nos.	1	1					Foc
8937	B-3/2434	S.Handle For T.Eng: (B04R331)	Nos.	1	1					Foc
8938	B-3/2435	Tube Bush Out Tool (B04R332)	Nos.	1	1					Foc
8939	B-3/2436	Chisel 5&6 (B04R333)	Nos.	1	1					Foc
8940	B-3/2437	Plug (B04R334)	Nos.	20	20					Foc
8941	B-3/2438	Tube Reamer (1.5&6) (B04R335)	Nos.	1	1					Foc
8942	B-3/2439	Brush (5&6) (B04R336)	Nos.	1	1					Foc
8943	B-3/2440	Bar (300) (B04R337)	Nos.	14	14					Foc
8944	B-3/2441	Joint (B04R338)	Nos.	14	14					Foc

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8945	B-3/2442	Handle (B04R339)	Nos.	1	1					Foc
8946	B-3/2443	Tool Box (B04R340)	Nos.	1	1					Foc
8947	B-3/2444	TUBE EXPENDER (B04R313)	Nos.	1	1					Foc
8948	B-3/2445	Ratchet Handle (B04R314)	Nos.	1	1					Foc
8949	B-3/2446	Handle (B04R315)	Nos.	1	1					Foc
8950	B-3/2447	Rope.Flaxible Shift (B04R316)	Nos.	1	1					Foc
8951	B-3/2448	Wire Brush Head (B04R317)	Nos.	2	2					Foc
8952	B-3/2449	Wire Rope (B04R318)	Nos.	1	1					Foc
8953	B-3/2450	Rope.Flaxible Shift (B04R319)	Nos.	1	1					Foc
8954	B-3/2451	Wire Rope (B04R320)	Nos.	1	1					Foc
8955	B-3/2452	Tool Box (B04R321)	Nos.	1	1					Foc
8956	B-3/2454	H.S.D Oil Pump (W/Meter Comp:) (A15R002)	Nos.	1	1					Foc
8957	B-3/2455	FUSE FOR W.DV S.M (A20R154)	Nos.	5	5					Foc
8958	B-3/2458	Tube Expender (A15R210)	Nos.	1	1					Foc
8959	B-3/2459	S.Handle (A15R211)	Nos.	1	1					Foc
8960	B-3/2460	Plug (A15R212)	Nos.	50	50					Foc
8961	B-3/2461	Tube Reamer (A15R213)	Nos.	1	1					Foc
8962	B-3/2462	Brush(19.2 Mt2) (A15R214)	Nos.	1	1					Foc
8963	B-3/2463	BAR (A15R215)	Nos.	24	24					Foc
8964	B-3/2464	Joint (A15R216)	Nos.	23	23					Foc
8965	B-3/2465	Handle (A15R217)	Nos.	1	1					Foc
8966	B-3/2466	Box (A15R218)	Nos.	1	1					Foc
8967	B-3/2478	Lnd:Fiber S Cope:F10x-30-X (A15R050)	Nos.	1	1					Foc
8968	B-3/2479	Light Screen 727201 (A15R051)	Nos.	1	1					Foc
8969	B-3/2480	Medical Cemerano,1090170 35m.M (A15R052)	Nos.	1	1					Foc
8970	B-3/2481	R.A.V Adapter X 10r.60 (A15R053)	Nos.	1	1					Foc
8971	B-3/2482	X.Ray Generator 250e 6.S-2 (A15R020)	Nos.	1	1					Foc
8972	B-3/2483	CONTROLLER (A15R021)	Nos.	1	1					Foc
8973	B-3/2484	Standerd Acess: (A15R022)	Nos.	1	1					Foc
8974	B-3/2485	Lnd:X-R Filim 8.5x30.5cm (A15R023)	Nos.	20	20					Foc
8975	B-3/2486	Lnd:X-R Filim 11.4x43.2cm (A15R024)	Nos.	20	20					Foc
8976	B-3/2487	Lnd:X-R Filim 25.4x30.5cm (A15R025)	Nos.	20	20					Foc

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8977	B-3/2490	Mark Case (A15R028)	Nos.	1	1					Foc
8978	B-3/2491	MAG:FILIM HOLDER (A15R029)	Nos.	2	2					Foc
8979	B-3/2492	PENETRA METER (A15R030)	Nos.	8	8					Foc
8980	B-3/2493	Filim Casette (A15R031)	Nos.	5	5					Foc
8981	B-3/2494	Filim Casette (A15R032)	Nos.	5	5					Foc
8982	B-3/2495	Filim Casette (A15R033)	Nos.	5	5					Foc
8983	B-3/2496	Lead Foil Screen 3 1/4" X 12" (A15R034)	Nos.	5	5					Foc
8984	B-3/2497	Lead Foil Screen 4 1/2" X 17" (A15R035)	Nos.	5	5					Foc
8985	B-3/2498	Lead Foil Screen 10"X12" (A15R036)	Nos.	5	5					Foc
8986	B-3/2499	FILIM VIEWR US (A15R037)	Nos.	1	1					Foc
8987	B-3/2500	Densito Meter Modewl-PDA-81 (A15R038)	Nos.	1	1					Foc
8988	B-3/2501	U/F Detector Fd 650 (A15R001)	Nos.	1	1					Foc
8989	B-3/2502	Assess For Above (A15R002)	Nos.	1	1					Foc
8990	B-3/2503	Ultrasound Probe A-15-R-3 (A15R003)	Nos.	1	1					Foc
8991	B-3/2504	Ultrasound Probe A-15-R-4 (A15R004)	Nos.	1	1					Foc
8992	B-3/2505	Ultrasound Probe A-15-R-5 (A15R005)	Nos.	1	1					Foc
8993	B-3/2506	Ultrasound Probe A-15-R-6 (A15R006)	Nos.	1	1					Foc
8994	B-3/2507	Ultrasound Probe A-15-R-7 (A15R007)	Nos.	1	1					Foc
8995	B-3/2508	Ultrasound Probe A-15-R-8 (A15R008)	Nos.	1	1					Foc
8996	B-3/2509	Ultrasound Probe A-15-R-9 (A15R009)	Nos.	1	1					Foc
8997	B-3/2510	Ultrasound Probe A-15-R-10 (A15R010)	Nos.	1	1					Foc
8998	B-3/2511	Ultrasound Probe A-15-R-11 (A15R011)	Nos.	1	1					Foc
8999	B-3/2512	Ultrasound Probe A-15-R-12 (A15R012)	Nos.	1	1					Foc
9000	B-3/2513	Test Block A-1 No.4717 (A15R013)	Nos.	1	1					Foc
9001	B-3/2514	Test Block A-1 No.3777 (A15R014)	Nos.	1	1					Foc
9002	B-3/2515	Mag:Powder Flam Detectoc (A15R040)	Nos.	1	1					Foc
9003	B-3/2516	Megnetic Powder Sprinker (A15R041)	Nos.	1	1					Foc
9004	B-3/2517	Megnetic Powder (A15R042)	Nos.	1	1					Foc
9005	B-3/2518	Fluoreent Magnetic Particle (A15R043)	Nos.	1	1					Foc
9006	B-3/2519	Ultra Violet Lamp No,2374 (A15R044)	Nos.	1	1					Foc
9007	B-3/2520	Spanner 090(60) (A15R090)	Nos.	1	1					Foc
9008	B-3/2523	Wire Rope (03) (A15R202)	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
9009	B-3/2525	Wire Rope (05) (A15R204)	Nos.	1	1					Foc
9010	B-3/2526	Cable Roller (A15R257)	Nos.	2	2					Foc
9011	B-3/2527	Outer Housing Packing (A20R-012)	Nos.	1	1					Foc
9012	B-3/2528	Gasket A (A20R013A)	Nos.	1	1					Foc
9013	B-3/2530	Rotor Bushing (A20R015)	Nos.	4	4					Foc
9014	B-3/2531	Thurst Ring A (A20R016)	Nos.	1	1					Foc
9015	B-3/2532	Thurst Ring B (A20R017)	Nos.	3	3					Foc
9016	B-3/2533	F.C GAS KET (A20R018)	Nos.	1	1					Foc
9017	B-3/2534	Gas Ket A (A20R019A)	Nos.	1	1					Foc
9018	B-3/2535	Transmission Gas Kit (A20R020)	Nos.	1	1					Foc
9019	B-3/2536	Rotor Bushing (A20R021)	Nos.	4	4					Foc
9020	B-3/2537	Thurst Ring (A20R022)	Nos.	1	1					Foc
9021	B-3/2538	Thurst Ring B (A20R023)	Nos.	3	3					Foc
9022	B-3/2539	Outer Housing Packing (A20R-024)	Nos.	1	1					Foc
9023	B-3/2540	Gasket (A20R025)	Nos.	2	2					Foc
9024	B-3/2541	Transmission Gasket (A20E026)	Nos.	1	1					Foc
9025	B-3/2542	Rotor Bushing A (A20R027)	Nos.	2	2					Foc
9026	B-3/2543	Rotor Bushing B (A20R028)	Nos.	2	2					Foc
9027	B-3/2544	Thrust Ring A (A20R029)	Nos.	2	2					Foc
9028	B-3/2545	Thrust Ring B (A20R030)	Nos.	2	2					Foc
9029	B-3/2548	Thermo Couple (E.W) (A20R037)	Nos.	2	2					Foc
9030	B-3/2549	Thermo Couple (E.W) (A20R040)	Nos.	2	2					Foc
9031	B-3/2550	Thermo Couple (E.W) (A20R041)	Nos.	2	2					Foc
9032	B-3/2551	Thermo Couple (E.W) (A20R042)	Nos.	2	2					Foc
9033	B-3/2552	Thermo Couple (E.W) (A20R043)	Nos.	2	2					Foc
9034	B-3/2553	Thermo Couple (E.W) (A20R044)	Nos.	2	2					Foc
9035	B-3/2554	Thermo Couple (E.W) (A20R045)	Nos.	2	2					Foc
9036	B-3/2555	Thermo Couple (E.W) (A20R046)	Nos.	2	2					Foc
9037	B-3/2557	Thermo Couple (E.W) (A20R049)	Nos.	2	2					Foc
9038	B-3/2558	Thermo Couple (E.W) (A20R050)	Nos.	2	2					Foc
9039	B-3/2559	Thermo Couple (E.W) (A20R051)	Nos.	2	2					Foc
9040	B-3/2560	Thermo Couple (E.W) (A20R057)	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
9041	B-3/2561	Thermo Couple (E.W) (A20R058)	Nos.	2	2					Foc
9042	B-3/2562	Thermo Couple (E.W) (A20R061)	Nos.	2	2					Foc
9043	B-3/2563	Penematic Converter (A20R062)	Nos.	2	2					Foc
9044	B-3/2564	Power Supply (A20R093A)	Nos.	1	1					Foc
9045	B-3/2565	Pressure Switch (A20R102A)	Nos.	1	1					Foc
9046	B-3/2566	Pressure Switch (A20R103)	Nos.	2	2					Foc
9047	B-3/2567	Pressure Switch (A20R104)	Nos.	2	2					Foc
9048	B-3/2568	Pressure Switch (A20R105)	Nos.	2	2					Foc
9049	B-3/2569	Pressure Switch (A20R106)	Nos.	2	2					Foc
9050	B-3/2570	Pressure Switch (A20R107)	Nos.	2	2					Foc
9051	B-3/2571	Pressure Switch (A20R108)	Nos.	2	2					Foc
9052	B-3/2572	Pressure Switch (A20R109)	Nos.	2	2					Foc
9053	B-3/2573	Diff: Pressure Switch (A20R110)	Nos.	2	2					Foc
9054	B-3/2574	Diff: Pressure Switch (A20R111)	Nos.	1	1					Foc
9055	B-3/2575	Diff: Pressure Switch (A20R112)	Nos.	1	1					Foc
9056	B-3/2576	Diff: Pressure Switch (A20R113)	Nos.	2	2					Foc
9057	B-3/2577	Diff: Pressure Switch (A20R114)	Nos.	2	2					Foc
9058	B-3/2578	Tempreture Switch (A20R117)	Nos.	1	1					Foc
9059	B-3/2579	Level Swith (A20R120)	Nos.	2	2					Foc
9060	B-3/2580	Level Switch (A20R121)	Nos.	1	1					Foc
9061	B-3/2581	Pneuma Indicate Controller (A20R122)	Nos.	1	1					Foc
9062	B-3/2582	Pressure Indicator Controller (A20R123)	Nos.	1	1					Foc
9063	B-3/2583	Pneumatic Controller (A20R124)	Nos.	1	1					Foc
9064	B-3/2586	Pressure Controller (A20R128)	Nos.	1	1					Foc
9065	B-3/2587	Ribbon Cartridge (A20R136)	Nos.	10	10					Foc
9066	B-3/2588	Stock Form (A20R139)	Nos.	10	10					Foc
9067	B-3/2589	Paper Roll (A20R140)	Nos.	31	31					Foc
9068	B-3/2592	Fuse for Burner Panel (A20R150)	Nos.	32	32					Foc
9069	B-3/2593	Fuse for Burner Panel (A20R151)	Nos.	22	22					Foc
9070	B-3/2594	Fuse for Burner Panel (A20R152)	Nos.	18	18					Foc
9071	B-3/2595	Control Switch For Panel (A20R153A)	Nos.	5	5					Foc
9072	B-3/2596	Thermocouple (A20R051A)	Nos.	2	2					Foc

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9073	B-3/2597	Gaskit B (A20R013B)	Nos.	1	1					Foc
9074	B-3/2598	Gasket (B) (A20R019B)	Nos.	1	1					Foc
9075	B-3/2600	Chart for Recorder (14153) (B-9565AW) Folding Chart	Nos.	20	20					Foc
9076	B-4/2603	Pen Cartridge (Red) (4153) (A20R133)	Nos.	20	20					Foc
9077	B-4/2604	Pen Cartridge (Green) (4153) (A20R134)	Nos.	20	20					Foc
9078	B-4/2605	Pen Cartridge (Blue) (4153) (A20R135A)	Nos.	20	20					Foc
9079	B-4/2607	Fuse (4153) (A20R135C)	Nos.	4	4					Foc
9080	B-4/2608	Ink Ribban (4177) (A20R135D)	Nos.	10	10					Foc
9081	B-4/2609	Pen Cartridge (Red) (4172) (A20R135E)	Nos.	10	10					Foc
9082	B-4/2610	Pen Cartridge (Green) (4172) (A20R135F)	Nos.	10	10					Foc
9083	B-4/2611	Plather Pen (4172) (A20R135G)	Nos.	10	10					Foc
9084	B-4/2612	Fuse (4172 & 4177) (A20R135H)	Nos.	4	4					Foc
9085	B-4/2615	Handy Maintaince Tool Set (B01(B01R240)	Nos.	2	2					Foc
9086	B4-2616	Handy Maintaince Tool Set (240)	Nos.	2	2					Foc
9087	B4-2617	Test Connector (242)	Nos.	1	1					Foc
9088	B4-2618	Test Connector (243)	Nos.	1	1					Foc
9089	B4-2619	Pressure Signal Generator (248)	Nos.	1	1					Foc
9090	B4-2620	Leakage General Tester (249)	Nos.	2	2					Foc
9091	B4-2621	Earth Tester (250)	Nos.	2	2					Foc
9092	B4-2625	Instrument Pipe Screw Cutter (253)	Nos.	2	2					Foc
9093	B4-2630	Happing Disc (110)	Nos.	2	2					Foc
9094	B4-2631	Happing Rod (111)	Nos.	2	2					Foc
9095	B4-2632	Bar Handle (112)	Nos.	2	2					Foc
9096	B4-2633	Happing Disc (113)	Nos.	2	2					Foc
9097	B4-2634	Bar (114)	Nos.	4	4					Foc
9098	B4-2635	Happing Disc (115)	Nos.	2	2					Foc
9099	B4-2636	Happing Rod (116)	Nos.	2	2					Foc
9100	B4-2637	Bar Handle (117)	Nos.	2	2					Foc
9101	B4-2638	Happing Disc (118)	Nos.	2	2					Foc
9102	B4-2639	Bar (119)	Nos.	4	4					Foc
9103	B4-2640	Lapping Disc (120)	Nos.	2	2					Foc
9104	B4-2641	Lapping Rod (121)	Nos.	2	2					Foc

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9105	B4-2642	Bar Handle (122)	Nos.	2	2					Foc
9106	B4-2643	Lapping Disc(123)	Nos.	2	2					Foc
9107	B4-2644	Bar (124)	Nos.	4	4					Foc
9108	B4-2645	Lapping Disc (125)	Nos.	2	2					Foc
9109	B4-2646	Lapping Rod (126)	Nos.	2	2					Foc
9110	B4-2647	Bar Handle (127)	Nos.	2	2					Foc
9111	B4-2648	Lapping Disc (128)	Nos.	2	2					Foc
9112	B4-2649	Bar (129)	Nos.	4	4					Foc
9113	B4-2650	Sperial wound Box (wooden) (130)	Nos.	1	1					Foc
9114	B4-2651	Lapping Disc (140)	Nos.	2	2					Foc
9115	B4-2652	Lapping Rod (141)	Nos.	2	2					Foc
9116	B4-2653	Bar Handle (142)	Nos.	2	2					Foc
9117	B4-2654	Lapping Disc (143)	Nos.	2	2					Foc
9118	B4-2655	Bar (144)	Nos.	4	4					Foc
9119	B4-2656	Lapping disc (165)	Nos.	2	2					Foc
9120	B4-2657	Lapping disc (146)	Nos.	2	2					Foc
9121	B4-2658	Sperial Tool Box (147)	Nos.	1	1					Foc
9122	B4-2740	Tube (A03R001)	Nos.	200	200					Foc
9123	B4-2741	Tube (A03R001)	Nos.	50	50					Foc
9124	B4-2742	Tube (A03R002)	Nos.	22	22					Foc
9125	B4-2743	Tube (A03R003)	Nos.	225	225					Foc
9126	B4-2744	Spanner S/E 55 (300)	Nos.	1	1					Foc
9127	B4-2745	Biornew Vise (301)	Nos.	1	1					Foc
9128	B4-2746	Wrench S/B off size 35,50 (302)	Nos.	2	2					Foc
9129	B4-2747	Adjusting Tool (303)	Nos.	1	1					Foc
9130	B4-2750	Tool Bag Cloth (306)	Nos.	1	1					Foc
9131	B4-2752	Brush Brass (308)	Nos.	1	1					Foc
9132	B4-2757	Test Gag (323)	Nos.	2	2					Foc
9133	B4-2758	Test Gag (324)	Nos.	2	2					Foc
9134	B4-2759	Stainless steel pipe ø 21/2, 7x5, 5002 (B04M002)	Nos.	1	1					Foc
9135	B4-2763	Heat Resistance Compound Super Plastic 800)(A05M022)	Nos.	4	4					Foc

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9136	B4-2764	Caking material (Slicon Scalant) (A05M023	Nos.	13	13					Foc
9137	B4-2768	Cylinder with 1% O2 in 1/2 Gas	Nos.	1	1					Foc
9138	B4-2769	Cylinder with 5% O2 in 1/2 Gas	Nos.	9	9					Foc
9139	B4-2780	Gag for R/H Out (064)	Nos.	2	2					Foc
9140	B4-2783	Test Guage for ground piping (067)	Nos.	1	1					Foc
9141	B4-2784	Test Guage for ground piping (068)	Nos.	1	1					Foc
9142	B4-2785	Test Guage for ground piping (069)	Nos.	1	1					Foc
9143	B4-2786	Test Guage for ground piping (070)	Nos.	3	3					Foc
9144	B4-2787	Test Guage for ground piping (071)	Nos.	2	2					Foc
9145	B4-2788	Test Guage for ground piping (072)	Nos.	9	9					Foc
9146	B4-2790	Seal (151)	Nos.	1	1					Foc
9147	B-05/2811	Open Ended Spanner S.50 (026)	Nos.	1	1					Foc
9148	B-05/2812	Open Ended Spanner S.54 (027)	Nos.	1	1					Foc
9149	B-05/2813	Open Ended Spanner S.55 (028)	Nos.	1	1					Foc
9150	B-05/2814	Open Ended Spanner S.58 (029)	Nos.	1	1					Foc
9151	B-05/2815	Open Ended Spanner S.60 (030)	Nos.	1	1					Foc
9152	B-05/2816	Open Ended Spanner S.63 (031)	Nos.	1	1					Foc
9153	B-05/2818	Open Ended Spanner S.63 (033)	Nos.	1	1					Foc
9154	B-05/2819	Open Ended Spanner S.70 (034)	Nos.	1	1					Foc
9155	B-05/2820	Open Ended Spanner S.75 (035)	Nos.	1	1					Foc
9156	B-05/2821	Open Ended Spanner S.77 (036)	Nos.	1	1					Foc
9157	B-05/2823	Open Ended Spanner S.85 (038)	Nos.	1	1					Foc
9158	B-05/2825	Open Ended Spanner S.95 (040)	Nos.	1	1					Foc
9159	B-05/2826	Open Ended Spanner S.115 (041)	Nos.	1	1					Foc
9160	B-05/2827	Open Ended Spanner S.128 (042)	Nos.	1	1					Foc
9161	B-05/2828	Open Ended Spanner 5.5x7 (043)	Nos.	1	1					Foc
9162	B-05/2842	Open Ended Spanner 26x32 (057)	Nos.	1	1					Foc
9163	B-05/2849	Open Ended Spanner 55x60 (064)	Nos.	1	1					Foc
9164	B-05/2873	Fork Spanner A=120 (096)	Nos.	1	1					Foc
9165	B-05/2874	Fork Spanner A=150 (097)	Nos.	1	1					Foc
9166	B-05/2877	Fork Spanner Wrench 25/28 (132)	Nos.	1	1					Foc
9167	B-05/2878	Fork Spanner Wrench 45/50 (133)	Nos.	1	1					Foc

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9168	B-05/2881	Battery Cell (G15M007)	Nos.	2	2					Foc
9169	B-05/2882	Case Wear Ring for D-Oil Pump (D02M090)	Nos.	1	1					Foc
9170	B-05/2883	Case Wear Ring for D-Oil Pump (D02M091)	Nos.	1	1					Foc
9171	B-05/2884	Porcelian Tube (A) (G23M007-01)	Nos.	1	1					Foc
9172	B-05/2885	Protection Tube (B) (G23M007-02)	Nos.	1	1					Foc
9173	B-05/2886	Cunducting Sleve (G23M007-03)	Nos.	1	1					Foc
9174	B-05/2887	Steel Wool (G23M007-04)	Nos.	1	1					Foc
9175	B-05/2890	Insulating PE Piller 100KG (G23M007-07)	Nos.	1	1					Foc
9176	B-05/2891	Semi Cunduncting Tube 150mmx1.5m (G23M007-08)	Nos.	1	1					Foc
9177	B-05/2893	Sheild Mesh Tape 25mmx10m (G23M00-10)	Nos.	7	7					Foc
9178	B-05/2894	Aluminium Solder 0.08Kgs (G23M007-11)	Nos.	1	1					Foc
9179	B-05/2895	Solder Soldec 0.07 Kgs (G23M007-12)	Nos.	2	2					Foc
9180	B-05/2896	Wiping Soler Solda 0.05Kgs	Nos.	30	30					Foc
9181	B-05/2897	Insolating Tape (Fg-No.2 Tape) 40mmx10mm (G23M007-14)	Nos.	1	1					Foc
9182	B-05/2900	PreAdhesive Tape 40mmx10m (G23M007-17)	Roll	2	2					Foc
9183	B-05/2901	Araldite 800G (G23M007-18)	Can	1	1					Foc
9184	B-05/2902	Hardner 160G (G23M007-18)	Can	1	1					Foc
9185	B-05/2903	Head Spanner L=400mm (G23M007-19)	Nos.	2	2					Foc
9186	B-05/2904	Scheme Tube (A) G23M007-20)	Nos.	1	1					Foc
9187	B-05/2905	Silicon Tube (B) G23M007-21)	Nos.	2	2					Foc
9188	B-05/2907	PTEE Tape 9542 30mmx30m (G23m007-23)	Roll	2	2					Foc
9189	B-05/2909	Silk Tape (W25) 25mmx40mm (G23M007-25)	Roll	1	1					Foc
9190	B-05/2910	Silk Tape (W50) 50mmx50mm (G23M007-26)	Roll	1	1					Foc
9191	B-05/2911	Clath Tape (W-20) 20mmx20m (G23M007-27)	Roll	5	5					Foc
9192	B-05/2912	Clath Tape (W-35) 35mmx20m (G23M007-28)	Roll	2	2					Foc
9193	B-05/2913	Clath Tape (W-50) 50mmx20m (G23M007-79)	Roll	40	40					Foc
9194	B-05/2914	Water Proof Camponent (AB) (G23M007-30)	Roll	4	4					Foc
9195	B-05/2915	Gasket 200-80 (G23M007-31)	Roll	2	2					Foc
9196	B-05/2916	O Ring Gasket G-220 (G23M007-32)	Nos.	2	2					Foc
9197	B-05/2917	String Gasket 04 (G23M007-33)	Nos.	1	1					Foc
9198	B-05/2918	String Gesket 07 (G23M007-34)	Roll	1	1					Foc

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9199	B-05/2919	Earhing Terminal With Bolt (G23M007-35)	Nos.	1	1					Foc
9200	B-05/2920	Pratcitan Tube (A) (G23M008-01)	Nos.	1	1					Foc
9201	B-05/2921	Pratcitan Tube (B) (G23M008-02)	Nos.	1	1					Foc
9202	B-05/2922	Conducting Sleeve (G23M008-03)	Nos.	1	1					Foc
9203	B-05/2923	Steel Wool (G23M008-04)	Nos.	1	1					Foc
9204	B-05/2925	Semi Canducting PE Tape \10mmx50mm(G23M008-06)	Roll	1	1					Foc
9205	B-05/2926	Insolating PE Pellet 100Kgs (G23M008-07)	Nos.	1	1					Foc
9206	B-05/2927	Semi Conducting Tube 150mmx1.5m (G23M008-08)	Nos.	1	1					Foc
9207	B-05/2929	Sheild Mesh Tape 25mmx10m (G23M008-10)	Roll	7	7					Foc
9208	B-05/2930	Aluminium Solder 0.08Kgs (G23M008-11)	Nos.	1	1					Foc
9209	B-05/2931	Solder Soldec 0.07 Kgs (G23M008-12)	Nos.	2	2					Foc
9210	B-05/2932	Wiping Soler Solda 0.05Kgs (G23M008-13)	Nos.	30	30					Foc
9211	B-05/2933	insulating Tape (F,Co,No,02 Tape) 40mmx10m	Roll	3	3					Foc
9212	B-05/2937	Araldite 800G (G23M008-18)	Can	2	2					Foc
9213	B-05/2938	Hardner 160G (G23M008-18)	Can	2	2					Foc
9214	B-05/2939	Head Spanner L=400mm (G23M008-19)	Nos.	2	2					Foc
9215	B-05/2940	Silicon Tube (A) G23M008-20)	Nos.	1	1					Foc
9216	B-05/2941	Silicon Tube (B) G23M008-21)	Nos.	2	2					Foc
9217	B-05/2943	PTFE Tape 9542 30mmx30m (G23M008-23)	Nos.	4	4					Foc
9218	B-05/2945	Silk Tape (W-25) 40mmx100M (G23M008-25)	Roll	1	1					Foc
9219	B-05/2946	Silk Tape (W-50) 50mmx50m (G23M008-26)	Roll	1	1					Foc
9220	B-05/2947	Cloth Tape (W-20) 20mmx20m (G23M008-27)	Roll	5	5					Foc
9221	B-05/2948	Cloth Tape (W-35) 35mmx20m (G23M008-25)	Roll	2	2					Foc
9222	B-05/2949	Cloth Tape (W-50) 50mmx20m (G23M008-29)	Roll	40	40					Foc
9223	B-05/2950	Water Proof Camponent (AB) (G23M008-30)	Can	4	4					Foc
9224	B-05/2951	Gasket 200-80 (G23M008-31)	Nos.	2	2					Foc
9225	B-05/2952	O Ring Gasket G-220 (G23M008-32)	Nos.	2	2					Foc
9226	B-05/2953	Stemy Gasket 04 (G23M008-23)	Nos.	1	1					Foc
9227	B-05/2954	String Gasket 07 (G23M008-34)	Nos.	1	1					Foc
9228	B-05/2955	Erthing Terminal With Bolt (Thimble) (G23M008-35)	Nos.	1	1					Foc
9229	B-05/2956	BFP Minimuim Flow Orifcea 66G-7682 (D17M153)	Nos.	2	2					Foc

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9230	B-05/2957	Globe Valve 25A (Cylinder Valve) (D17M996)	Nos.	2	2					Foc
9231	B-05/2958	Gasket Packing (Seph2.150WG BW24B) (D17M692)	Nos.	1	1					Foc
9232	B-05/2960	Gasket Packing (SEPH2 WG,RF,04B)	Nos.	2	2					Foc
9233	B-05/2961	Gasket Packing (SCPH2 150WG BW 08B) (D17M698)	Nos.	6	6					Foc
9234	B-05/2962	Gasket Packing (SCPH2 150 WG BW 12B) (D17M700)	Nos.	3	3					Foc
9235	B-05/2963	Gasket Paking (SCPH2 150 WG BW.10B) (D17M702)	Nos.	1	1					Foc
9236	B-05/2964	Gasket Paking (SCPH2 150 WG RF.06B) (D17M704)	Nos.	3	3					Foc
9237	B-05/2965	Gasket Paking ANS 1150 (SCPH2 150 WG RF.10B) (D17M706)	Nos.	1	1					Foc
9238	B-05/2966	Gasket Packing (SCPH2 300 WG BW 2.1/2B)(D17M708)	Nos.	3	3					Foc
9239	B-05/2967	Gasket Packing (SCPH2,300WG BW 03B)(D17M710)	Nos.	2	2					Foc
9240	B-05/2968	Gasket Packing (SCPH2 WG BW 04B)(D17M712)	Nos.	7	7					Foc
9241	B-05/2969	Gasket Packing (SCPH2 300WG BW 06B)(D17M716)	Nos.	10	10					Foc
9242	B-05/2970	Gasket Packing (SCPH2 300WG BW 08B)(D17M718)	Nos.	2	2					Foc
9243	B-05/2971	Gasket Packing (SCPH2 300WG BW 10B)(D17M720)	Nos.	4	4					Foc
9244	B-05/2972	Gasket Packing (SCPH2 300WG BW 08B)(D17M724)	Nos.	1	1					Foc
9245	B-05/2973	Gasket Packing (SCPH2 600WG BW 06B)(D17M726)	Nos.	1	1					Foc
9246	B-05/2974	Gasket Packing (SCPH2 600WG BW 08B)(D17M728)	Nos.	1	1					Foc
9247	B-05/2975	Gasket Packing (SCPH2 150GL BW 2.1/2B)(D17M736)	Nos.	14	14					Foc
9248	B-05/2976	Gasket Packing (SCPH2 150GL BW 04B)(D17M738)	Nos.	5	5					Foc
9249	B-05/2978	Gasket Packing (SCPH2 150GL BW 04B)(D17M742)	Nos.	1	1					Foc
9250	B-05/2979	Gasket Packing (SCPH2 150GL RF 03B)(D17M744)	Nos.	1	1					Foc
9251	B-05/2980	Gasket Packing (SCPH2 150GL RF 06B)ANS1150 (D17M746)	Nos.	1	1					Foc
9252	B-05/2981	Gasket Packing (SCPH2 300GL BW 03B)(D17M748)	Nos.	2	2					Foc
9253	B-05/2982	Gasket Packing (SCPH2 300GL RF 04B)(D17M750)	Nos.	2	2					Foc
9254	B-05/2983	Gasket Packing (SCPH2 600GL RF 04B)(D17M756)	Nos.	1	1					Foc
9255	B-05/2984	Gasket Packing (SCPH2 150GL BW 2.1/2B)(D17M759)	Nos.	2	2					Foc
9256	B-05/2985	Gasket Packing (SCPH2 150GL BW 03B)(D17M760)	Nos.	1	1					Foc
9257	B-05/2987	Gasket Packing (SCPH2 150GL BW 06B)(D17M762)	Nos.	2	2					Foc
9258	B-05/2988	Gasket Packing (SCPH2 300SE BW 03B)(D17M763)	Nos.	1	1					Foc
9259	B-05/2989	Gasket FOR Shell Mandode 87-2425-T-6-1 (D14M009)	Nos.	1	1					Foc
9260	B-05/2990	Gasket FOR Shell Mandode 87-2425-T-6-2 (D14M010)	Nos.	1	1					Foc

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9261	B-05/2991	Gasket FOR Shell Mandode 87-2425-T-4-1 (E06M001)	Nos.	2	2					Foc
9262	B-05/2992	Gasket FOR Shell Mandode 87-2425-T-4-2 (E06M002)	Nos.	2	2					Foc
9263	B-05/2993	Gasket FOR Shell Mandode 87-2425-T-5-1 (E08M005)	Nos.	2	2					Foc
9264	B-05/2994	Gasket FOR Shell Mandode 87-2425-T-5-2 (E08M006)	Nos.	2	2					Foc
9265	B-05/2995	Lapping Tool (001)	Set	1	1					Foc
9266	B-05/2996	Lapping Tool (002)	Set	1	1					Foc
9267	B-05/2997	Lapping Tool (003)	Nos.	1	1					Foc
9268	B-05/2998	Lapping Tool (004)	Nos.	1	1					Foc
9269	B-05/2999	Lapping Plate (005)	Nos.	1	1					Foc
9270	B-05/3000	Lapping Plate (006)	Nos.	1	1					Foc
9271	B6-3001	Lapping Plate (007)	Nos.	1	1					Foc
9272	B6-3002	Lapping Plate (008)	Nos.	1	1					Foc
9273	B6-3003	Lapping Plate (009)	Nos.	1	1					Foc
9274	B6-3004	Lapping Plate (010)	Nos.	1	1					Foc
9275	B6-3005	Lapping Plate (011)	Nos.	1	1					Foc
9276	B6-3006	Lapping Plate (012)	Nos.	1	1					Foc
9277	B6-3007	Lapping Plate (013)	Nos.	1	1					Foc
9278	B6-3008	Lapping Plate (014)	Nos.	1	1					Foc
9279	B6-3009	Lapping Plate (015)	Nos.	1	1					Foc
9280	B6-3010	Container Box (016)	Nos.	1	1					Foc
9281	B6-3011	Container Box (017)	Nos.	1	1					Foc
9282	B6-3012	Container Box (018)	Nos.	1	1					Foc
9283	B6-3013	Lapping Tool (019)	Nos.	1	1					Foc
9284	B6-3014	Lapping Tool (020)	Nos.	1	1					Foc
9285	B6-3015	Lapping Tool (021)	Nos.	1	1					Foc
9286	B6-3016	Lapping Tool (022)	Nos.	1	1					Foc
9287	B6-3017	Lapping Tool (023)	Nos.	1	1					Foc
9288	B6-3018	Lapping Tool (024)	Nos.	2	2					Foc
9289	B6-3019	Ratchet Handle (025)	Nos.	1	1					Foc
9290	B6-3020	Head valve spring Remaner (026)	Nos.	1	1					Foc
9291	B6-3028	Packing Inserting Tool (034)	Nos.	1	1					Foc
9292	B6-3029	Mainkey Wrench (6") 035	Nos.	1	1					Foc

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9293	B6-3031	Lestening Aid 040	Nos.	1	1					Foc
9294	B6-3032	Coupling Puller 041	Nos.	1	1					Foc
9295	B6-3033	Coupling Puller 050	Nos.	1	1					Foc
9296	B6-3034	Coupling Roller (060)	Nos.	1	1					Foc
9297	B6-3035	Dismantling Tools (070)	Nos.	1	1					Foc
9298	B6-3036	S.V 581 - SV.590 (071)	Nos.	1	1					Foc
9299	B6-3037	S.V 580 (072)	Nos.	1	1					Foc
9300	B6-3038	Dismantling Tool (73)	Nos.	1	1					Foc
9301	B6-3039	S.V-580, S.V 543-SV-544 (074)	Nos.	1	1					Foc
9302	B6-3040	Fark Spanner (080)	Nos.	1	1					Foc
9303	B6-3041	Fark Spanner (081)	Nos.	1	1					Foc
9304	B6-3042	Fark Spanner (082)	Nos.	1	1					Foc
9305	B6-3043	Jig (083)	Nos.	1	1					Foc
9306	B6-3044	Jig (084)	Nos.	1	1					Foc
9307	B6-3045	Jig (085)	Nos.	1	1					Foc
9308	B6-3046	Jig for Neck Bush (086)	Nos.	1	1					Foc
9309	B6-3047	Jig for Neck Bush (087)	Nos.	1	1					Foc
9310	B6-3048	Jig for Neck Bush (088)	Nos.	1	1					Foc
9311	B6-3049	Jig for Neck Bush (089)	Nos.	1	1					Foc
9312	B6-3050	Jig for Neck Bush (090)	Nos.	1	1					Foc
9313	B6-3051	Jig (091)	Nos.	1	1					Foc
9314	B6-3052	Jig (092)	Nos.	1	1					Foc
9315	B6-3053	Jig (093)	Nos.	1	1					Foc
9316	B6-3054	Jig (094)	Nos.	1	1					Foc
9317	B6-3055	Jig (095)	Nos.	1	1					Foc
9318	B6-3056	Seat Retainer F.Jig (096)	Nos.	1	1					Foc
9319	B6-3057	Seat Retainer F.Jig (097)	Nos.	1	1					Foc
9320	B6-3058	Seat Retainer F.Jig (098)	Nos.	1	1					Foc
9321	B6-3059	Retainer Jig (099)	Nos.	1	1					Foc
9322	B6-3060	Seat Retainer Flange (0100)	Nos.	1	1					Foc
9323	B6-3061	Seat Retainer Flange (0101)	Nos.	1	1					Foc
9324	B6-3062	Hammer (0102)	Nos.	1	1					Foc

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9325	B6-3063	Flexible shaft (0103)	Nos.	1	1					Foc
9326	B6-3064	Flexible shaft (0104)	Nos.	1	1					Foc
9327	B6-3065	Flexible shaft (0105)	Nos.	1	1					Foc
9328	B6-3066	Cark Screw (0106)	Nos.	1	1					Foc
9329	B6-3067	Cark Screw (0107)	Nos.	1	1					Foc
9330	B6-3068	Cark Screw (0108)	Nos.	1	1					Foc
9331	B6-3069	Cark Screw (0110)	Nos.	1	1					Foc
9332	B6-3070	Plate (0111)	Nos.	1	1					Foc
9333	B6-3071	Bar (0112)	Nos.	1	1					Foc
9334	B6-3072	Wrench (0113)	Nos.	1	1					Foc
9335	B6-3073	Plate (0114)	Nos.	1	1					Foc
9336	B6-3074	Bar (0115)	Nos.	1	1					Foc
9337	B6-3075	Wrench (0116)	Nos.	1	1					Foc
9338	B6-3076	Plate (0117)	Nos.	1	1					Foc
9339	B6-3077	Bar (0118)	Nos.	1	1					Foc
9340	B6-3078	Wrench (0119)	Nos.	1	1					Foc
9341	B6-3079	Plate (0120)	Nos.	1	1					Foc
9342	B6-3080	Bar (0121)	Nos.	1	1					Foc
9343	B6-3081	Bar (0122)	Nos.	1	1					Foc
9344	B6-3086	Cap Nut Wrench (0134)	Nos.	1	1					Foc
9345	B6-3087	Jig for Bearing (0140)	Nos.	1	1					Foc
9346	B6-3088	Jig for Bearing (0141)	Nos.	1	1					Foc
9347	B6-3089	Bolt (0142)	Nos.	4	4					Foc
9348	B6-3090	Steam Hose (0152)	Nos.	1	1					Foc
9349	B6-3091	Hose Nozzle (0152)	Nos.	1	1					Foc
9350	B6-3092	Pak Aid (0170)	Nos.	1	1					Foc
9351	B6-3093	Below out equipment (0180)	Nos.	1	1					Foc
9352	B6-3094	Control Plate (0190)	Nos.	1	1					Foc
9353	B6-3095	Disc (0191)	Nos.	1	1					Foc
9354	B6-3096	Rod (0192)	Nos.	1	1					Foc
9355	B6-3097	Hamer (0193)	Nos.	1	1					Foc
9356	B6-3098	Eye Bolt (0194)	Nos.	2	2					Foc

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9357	B6-3099	Eye Bolt (0195)	Nos.	2	2					Foc
9358	B6-3100	Bolt Hamer (0203)	Nos.	2	2					Foc
9359	B6-3101	Eye Bolt (0204)	Nos.	4	4					Foc
9360	B6-3103	Eye Bolt (0209)	Nos.	1	1					Foc
9361	B6-3104	Garket Ring (0210)	Nos.	3	3					Foc
9362	B6-3106	O.Ring (0213)	Nos.	3	3					Foc
9363	B6-3189	Pipe STPG 38S,SCH40 (40-A) (5.5) each length	Mtr.	13	13					Foc
9364	B6-3197	Pipe STPG 38S, 40 (300-A)	Mtr.	5.5	5.5					Foc
9365	B6-3198	Pipe STPG 38S,SCH,40 (350-A) (14")	Mtr.	41	41					Foc
9366	B6-3200	Pipe STPG 38E, 300 A	Mtr.	0.5	0.5					Foc
9367	B-07/3202	Pipe STPG38S SCH80, 508	Mtr.	4.4	4.4					Foc
9368	B-07/3204	PIPE SGP-E-SGP 50A(2")	Mtr.	77	77					Foc
9369	B-07/3205	PIPE SGP-E-SGP 65A(3") (5.5 M) per length	Mtr.	22	22					Foc
9370	B-07/3213	PIPE STPY 41. 9.5 T, 350A	Mtr.	20.5	20.5					Foc
9371	B-07/3215	PIPE SGPE-ZN, SGP, 25A	Mtr.	27.5	27.5					Foc
9372	B-07/3216	PIPE SGPE-SGP-ZN,SGP.40A	Mtr.	20	20					Foc
9373	B-07/3220	PIPE SUS 304, TP,6-5T. 200A	Mtr.	5.5	5.5					Foc
9374	B-07/3221	PIPE SUS 316 TP, TP 50A	Mtr.	4	4					Foc
9375	B-07/3226	BEAM H SHAPE 08/12, 200X200	Mtr.	16	16					Foc
9376	B-07/3228	BEAM H SHAPE 5.5/8, 298X149	Mtr.	16	16					Foc
9377	B-07/3229	BEAM H SHAPE 09/12, 300X200	Mtr.	5.5	5.5					Foc
9378	B-07/3230	BEAM H SHAPE 07/11 396X196	Mtr.	16	16					Foc
9379	B-07/3231	BEAM H SHAPE 09/14 340X250	Mtr.	16	16					Foc
9380	B-07/3232	BEAM H SHAPE 11/18 488X300	Mtr.	16	16					Foc
9381	B-07/3238	ANGLE L SHAPE 09-0, 75X75	Mtr.	7	7					Foc
9382	B-07/3240	ANGLE L SHAPE 13.0 100X100	Mtr.	12	12					Foc
9383	B-07/3241	ANGLE L SHAPE 15.0, 150X150.	Mtr.	6	6					Foc
9384	B-07/3242	ANGLE L SHAPE 15-0, 200X200.	Mtr.	6	6					Foc
9385	B-07/3243	ANGLE L SHAPE 02-0, 100X50	Mtr.	10	10					Foc
9386	B-07/3247	CHANNEL C SHAPE 20/3,2 200X75 (3"X8")	Mtr.	18.5	18.5					Foc
9387	B-07/3250	CHANNEL C SHAPE 4,5, 250X90	Mtr.	8	8					Foc
9388	B-07/3252	CHANNEL T SHAPE 6/9, 97X150	Mtr.	24	24					Foc

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9389	B-07/3253	CHANNEL T SHAPE 8/12, 147X200	Mtr.	8	8					Foc
9390	B-07/3254	CHANNEL T SHAPE 10/16, 218X300	Mtr.	12	12					Foc
9391	B-07/3256	Pipe ASME , SA-335, GR , P 11.5, 165 A	Mtr.	22	22					Foc
9392	B-07/3262	ELBOW (SOCKET WELD) 45 EEXXS, F22,25A	Nos.	1	1					Foc
9393	B-07/3264	ELBOW (SOCKET WELD) 90EE-160,F22,15A	Nos.	3	3					Foc
9394	B-07/3282	ELBOW (SOCKET WELD) 90EE,80,A105, 10A	Nos.	23	23					Foc
9395	B-07/3292	ELBOW (SOCKET WELD) 90EE,6000,A105, 15A	Nos.	14	14					Foc
9396	B-07/3294	ELBOW (SOCKET WELD) 45EE,80,A105. 15A	Nos.	11	11					Foc
9397	B-07/3301	ELBOW (BOLT WELD) 90EE,160,PT,49,125A	Nos.	4	4					Foc
9398	B-07/3302	ELBOW (SOCKET BUTT WELD) 90EE,160,PT,49, 150A	Nos.	1	1					Foc
9399	B-07/3309	ELBOW (SOCKET BUTT WELD) 90EL, 40,PT38, 125A	Nos.	3	3					Foc
9400	B-07/3323	ELBOW (BUTT WELD) 60EL,T,9,5, PT 38, 500A	Nos.	1	1					Foc
9401	B-07/3324	ELBOW (BUTT WELD) 45EL SGP, 65A	Nos.	2	2					Foc
9402	B-07/3327	ELBOW (BUTT WELD)90EL, 20, SUS, 304, 150A	Nos.	1	1					Foc
9403	B-07/3334	ELBOW (PT) 90EE, FCMB, 28, (ZN) PT 1	Nos.	5	5					Foc
9404	B-07/3335	ELBOW (PT) 90EE, FCMB, 28 (ZN) PT 1 1/2	Nos.	25	25					Foc
9405	B-07/3338	ELBOW (PT) 45EE, FCMB, (ZN) PT 1 1/2	Nos.	9	9					Foc
9406	B-07/3340	FLANGE FWRJ, 900, A105, 50A.	Nos.	6	6					Foc
9407	B-07/3341	FLANGE FWRJ, 02500,A105 15-A	Nos.	8	8					Foc
9408	B-07/3349	FLANGE FSRF,105,A105,15A	Nos.	4	4					Foc
9409	B-07/3359	FLANGE F SRF 105,A105, 150-A	Nos.	1	1					Foc
9410	B-07/3360	FLANGE F SRF 105,A105, 200-A	Nos.	9	9					Foc
9411	B-07/3362	FLANGE F SRF 105,A105, 300-A	Nos.	5	5					Foc
9412	B-07/3363	FLANGE F SK,A105, 300-A	Nos.	1	1					Foc
9413	B-07/3372	FLANGE F SRF 105,A105, 150-A	Nos.	1	1					Foc
9414	B-07/3375	FLANGE F RFF,105,A105, 350-A	Nos.	6	6					Foc
9415	B-07/3378	FLANGE FB,RE,105,A105, 200-A	Nos.	2	2					Foc
9416	B-07/3380	GASKET ASSY GS 150,FF 20A	Nos.	5	5					Foc
9417	B-07/3381	GASKET ASSY GS 150 FF 32A	Nos.	5	5					Foc
9418	B-07/3382	GASKET ASSY GS 150 FF, 50A.	Nos.	5	5					Foc
9419	B-07/3383	GASKET ASSY GS 150 FF, 65A.	Nos.	10	10					Foc

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1	2	3	4	5	6	7	8	10	11	12
9420	B-07/3384	GASKET ASSY GS 150 FF, 80A.	Nos.	3	3					Foc
9421	B-07/3385	GASKET ASSY GS 150 FF, 125A.	Nos.	8	8					Foc
9422	B-07/3386	GASKET ASSY GS 150 FF, 150A.	Nos.	6	6					Foc
9423	B-07/3387	GASKET ASSY GS 150 FF, 200A.	Nos.	2	2					Foc
9424	B-07/3488	GASKET ASSY GS 150 FF, 250A.	Nos.	8	8					Foc
9425	B-07/3489	GASKET ASSY GS 150 FF, 300A.	Nos.	2	2					Foc
9426	B-07/3490	GASKET ASSY GS 150 FF, 350A.	Nos.	20	20					Foc
9427	B-07/3392	GASKET ASSY GS 150 FF, 500A.	Nos.	9	9					Foc
9428	B-07/3393	GASKET ASSY GS 150 FF, 1350A.	Nos.	20	20					Foc
9429	B-07/3394	GASKET ASSY GS 15T, FF, 10K, 50A.	Nos.	2	2					Foc
9430	B-07/3395	GASKET ASSY GS 15T , FF, 10K 40A.	Nos.	2	2					Foc
9431	B-07/3396	GASKET ASSY GS 15T , FF, 10K 25A.	Nos.	2	2					Foc
9432	B-07/3397	GASKET ASSY GS 15T , FF, 10K 20A.	Nos.	2	2					Foc
9433	B-07/3398	GASKET ASSY GS 15T , FF, 10K 15A.	Nos.	2	2					Foc
9434	B-07/3399	GASKET ASSY GS 150RF , 15A	Nos.	28	28					Foc
9435	B-07/3400	GASKET ASSY GS 150RF , 20A.	Nos.	150	150					Foc
9436	B-08/3401	GASKET ASSY GS 150RF , 25A.	Nos.	268	268					Foc
9437	B-07/3402	GASKET ASSY GS 150RF , 40A.	Nos.	230	230					Foc
9438	B-08/3403	GASKET ASSY GS 150RF , 50A.	Nos.	11	11					Foc
9439	B-08/3404	GASKET ASSY GS 150RF , 80A.	Nos.	106	106					Foc
9440	B-07/3405	GASKET ASSY GS 150RF , 100A.	Nos.	48	48					Foc
9441	B-08/3406	GASKET ASSY GS 150RF , 125A.	Nos.	2	2					Foc
9442	B-08/3407	GASKET ASSY GS 150RF , 150A.	Nos.	160	160					Foc
9443	B-07/3408	GASKET ASSY GS 150RF , 200A.	Nos.	33	33					Foc
9444	B-08/3409	GASKET ASSY GS 150RF , 250A.	Nos.	30	30					Foc
9445	B-08/3410	GASKET ASSY GS 150RF , 300A.	Nos.	12	12					Foc
9446	B-07/3411	GASKET ASSY GS 150RF , 350A.	Nos.	4	4					Foc
9447	B-08/3413	GASKET ASSY GS 150RF , 500A.	Nos.	12	12					Foc
9448	B-08/3414	U CLAMP BC, 200A.	Nos.	1	1					Foc
9449	B-08/3415	U CLAMP BC, 150A.	Nos.	1	1					Foc
9450	B-08/3416	U CLAMP BC, 125A.	Nos.	2	2					Foc
9451	B-08/3417	U CLAMP BC, 100A.	Nos.	4	4					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
9452	B-08/3420	U CLAMP BC, 50A.	Nos.	8	8					Foc
9453	B-08/3424	U CLAMP BC, 15A.	Nos.	24	24					Foc
9454	B-08/3425	U CLAMP BA, 10A.	Nos.	50	50					Foc
9455	B-08/3426	U CLAMP BA, 250A.	Nos.	4	4					Foc
9456	B-08/3427	U CLAMP BA, 125A.	Nos.	5	5					Foc
9457	B-08/3429	U CLAMP BA, 80A.	Nos.	2	2					Foc
9458	B-08/3431	U CLAMP BA, 40A.	Nos.	9	9					Foc
9459	B-08/3432	U CLAMP BA, 20A.	Nos.	42	42					Foc
9460	B-08/3433	U CLAMP BA, 15A.	Nos.	11	11					Foc
9461	B-08/3434	U CLAMP BB, 400A.	Nos.	1	1					Foc
9462	B-08/3436	U CLAMP BB, 250A.	Nos.	3	3					Foc
9463	B-08/3437	U CLAMP BB, 200A.	Nos.	4	4					Foc
9464	B-08/3438	PIPE CLAMP PB 250A	Nos.	3	3					Foc
9465	B-08/3440	PIPE CLAMP PB 125A	Nos.	1	1					Foc
9466	B-08/3443	PIPE CLAMP PB 50A	Nos.	6	6					Foc
9467	B-08/3444	PIPE CLAMP PB 20A	Nos.	3	3					Foc
9468	B-08/3445	PIPE CLAMP PB 15A	Nos.	1	1					Foc
9469	B-08/3447	PIPE CLAMP PB 65A	Nos.	1	1					Foc
9470	B-08/3450	REDUCED TEE BULLT WELD TR-160 PT 49 80X65A	Nos.	1	1					Foc
9471	B-08/3451	REDUCED TEE BULLT WELD TR-160 PT 49 100X50A	Nos.	1	1					Foc
9472	B-08/3452	REDUCED TEE BULLT WELD TR-160 PT 49 100X65A	Nos.	1	1					Foc
9473	B-08/3453	REDUCED TEE BULLT WELD TR-160 PT 49 100X80A	Nos.	4	4					Foc
9474	B-08/3454	REDUCED TEE BULLT WELD TR-160 PT 49 125X50A	Nos.	2	2					Foc
9475	B-08/3455	REDUCED TEE BULLT WELD TR-40 PT 49 80X50A	Nos.	2	2					Foc
9476	B-08/3456	REDUCED TEE BULLT WELD TR-40 PT 38 65X50A	Nos.	1	1					Foc
9477	B-08/3457	REDUCED TEE BULLT WELD TR-40 PT 38 65X25A	Nos.	1	1					Foc
9478	B-08/3458	REDUCED TEE BULLT WELD TR-40 PT 38 80X50A	Nos.	4	4					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
9479	B-08/3459	REDUCED TEE BULLT WELD TR-40 PT 38 150X65A	Nos.	1	1					Foc
9480	B-08/3460	REDUCED TEE BULLT WELD TR-40 PT 38 200X100A	Nos.	2	2					Foc
9481	B-08/3461	REDUCED TEE BULLT WELD TR-40 PT 38 250X150A	Nos.	1	1					Foc
9482	B-08/3462	REDUCED TEE BULLT WELD TR-40 PT 38 125X50A	Nos.	3	3					Foc
9483	B-08/3464	REDUCED TEE BULLT WELD TR, SGP 65X25A	Nos.	3	3					Foc
9484	B-08/3465	REDUCED TEE BULLT WELD TR, SGP 65X50A/65X50A	Nos.	1	1					Foc
9485	B-08/3467	REDUCED TEE BULLT WELD TR, SGP 80X40A	Nos.	2	2					Foc
9486	B-08/3468	REDUCED TEE BULLT WELD TR, SGP 80X50A	Nos.	2	2					Foc
9487	B-08/3470	REDUCED TEE BULLT WELD TR, SGP 125X50A	Nos.	3	3					Foc
9488	B-08/3471	REDUCED TEE BULLT WELD TR, SGP 125X80A	Nos.	4	4					Foc
9489	B-08/3472	REDUCED TEE BULLT WELD TR, SGP 150X80A	Nos.	3	3					Foc
9490	B-08/3473	REDUCED TEE BULLT WELD TR, SGP 150X100A	Nos.	1	1					Foc
9491	B-08/3474	REDUCED TEE BULLT WELD TR, SGP 200X125A	Nos.	2	2					Foc
9492	B-08/3475	REDUCED TEE BULLT WELD TR, SGP 150X100A	Nos.	1	1					Foc
9493	B-08/3476	REDUCED TEE BULLT WELD TR, SGP 150X100A	Nos.	1	1					Foc
9494	B-08/3477	REDUCED TEE BULLT WELD TR, 20 SUS 304 , 65X25A (ZN)	Nos.	1	1					Foc
9495	B-08/3478	REDUCED TEE (SOCKET WELD)PT, TR, 160,A105,SWXPT, 50AX3/4	Nos.	1	1					Foc
9496	B-08/3479	REDUCED TEE (SOCKET WELD)PT,TR,160,A105,SWXPT, 25X15A	Nos.	2	2					Foc
9497	B-08/3480	REDUCED TEE (SOCKET WELD)PT,TR,80,A105,15X10A	Nos.	26	26					Foc
9498	B-08/3481	REDUCED TEE (SOCKET WELD),TR,80,A105,20X15A	Nos.	1	1					Foc
9499	B-08/3482	REDUCED TEE (SOCKET WELD),TR,80,A105,25X10A	Nos.	15	15					Foc
9500	B-08/3484	REDUCED TEE (SOCKET WELD),TR,80,A105,25X20A	Nos.	6	6					Foc
9501	B-08/3485	REDUCED TEE (SOCKET WELD),TR,80,A105,40X15A	Nos.	11	11					Foc
9502	B-08/3487	REDUCED TEE (SOCKET WELD),TR,80,A105,50X15A	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
9503	B-08/3488	REDUCED TEE (SOCKET WELD),TR,80,A105,50X20A	Nos.	14	14					Foc
9504	B-08/3489	REDUCED TEE (SOCKET WELD),TR,80,A105,50X25A	Nos.	8	8					Foc
9505	B-08/3491	REDUCED TEE (SOCKET WELD),TR,160,A105,50X20A	Nos.	3	3					Foc
9506	B-08/3492	REDUCED TEE (SOCKET WELD),TR,80,F 30450X25A	Nos.	1	1					Foc
9507	B-08/3493	REDUCED TEE (SOCKET WELD),TR,80,F 304,50X20A	Nos.	4	4					Foc
9508	B-08/3494	REDUCED TEE (SOCKET WELD),TR,,PT,FEMB28(ZN) 1/2 X 1/2	Nos.	6	6					Foc
9509	B-08/3495	REDUCED TEE (SOCKET WELD),TR,,PT,FEMB28(ZN) 1/2 X 3/2	Nos.	7	7					Foc
9510	B-08/3496	REDUCED TEE (SOCKET WELD),TR,,PT,FEMB 28 (ZN) 1 1/2 X 1	Nos.	21	21					Foc
9511	B-08/3497	REDUCED TEE (SOCKET WELD),TR,,PT,80,A105 40X25A	Nos.	26	26					Foc
9512	B-08/3499	SAME TEE, (BUTT WELD)TS,160 PT49, 80A.	Nos.	1	1					Foc
9513	B-08/3500	SAME TEE, (BUTT WELD)TS,160 PT49, 100A.	Nos.	2	2					Foc
9514	B-08/3503	SAME TEE, (BUTT WELD)TS,40 PT38, 65A.	Nos.	1	1					Foc
9515	B-08/3504	SAME TEE, (BUTT WELD)TS,40 PT38, 80A.	Nos.	1	1					Foc
9516	B-08/3505	SAME TEE, (BUTT WELD)TS,40 PT38, 125A.	Nos.	1	1					Foc
9517	B-08/3506	SAME TEE, (BUTT WELD)TS,40 PT38, 150A.	Nos.	4	4					Foc
9518	B-08/3507	SAME TEE, (BUTT WELD)TS,40 PT38, 200A.	Nos.	6	6					Foc
9519	B-08/3508	SAME TEE, (BUTT WELD)TS, SGP, 65A.	Nos.	1	1					Foc
9520	B-08/3511	SAME TEE, (BUTT WELD)TS,SGP (ZN), 150A.	Nos.	2	2					Foc
9521	B-08/3512	SAME TEE, (BUTT WELD)TS,20 SUS, 304, 100A.	Nos.	1	1					Foc
9522	B-08/3515	SAME TEE, (BUTT WELD)TS,80, F22, 15A.	Nos.	2	2					Foc
9523	B-08/3521	SAME TEE, (SOCKET WELD)TS,80 A105, 10A.	Nos.	30	30					Foc
9524	B-08/3522	SAME TEE, (SOCKET WELD)TS,80 A105, 15A.	Nos.	39	39					Foc
9525	B-08/3527	SAME TEE, (SOCKET WELD)TS,6000, A105, 15A.	Nos.	3	3					Foc
9526	B-08/3530	SAME TEE, (SOCKET WELD)TS,80 F321, 15A.	Nos.	1	1					Foc
9527	B-08/3532	SAME TEE, (P.T) TS,FCMB 28 (ZN) PT 3/4 1".	Nos.	1	1					Foc
9528	B-08/3535	SAME TEE, (P.T) TS,FCMB 28 (ZN) PT 1".1/2	Nos.	12	12					Foc
9529	B-08/3537	CONCENTRIC REDUCER (SOCKET WELD) PT,RC,XXS,F22,25X15A	Nos.	4	4					Foc

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1	2	3	4	5	6	7	8	10	11	12
9530	B-08/3538	CONCENTRIC REDUCER (SOCKET WELD) PT,RC80,F22,25X15A	Nos.	2	2					Foc
9531	B-08/3539	CONCENTRIC REDUCER (SOCKET WELD) RC,80A105,10X06A	Nos.	4	4					Foc
9532	B-08/3540	CONCENTRIC REDUCER (SOCKET WELD) RC 80,105,15 X 08A	Nos.	1	1					Foc
9533	B-08/3541	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A10515 X 10A	Nos.	4	4					Foc
9534	B-08/3542	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A105 20 X 08A	Nos.	1	1					Foc
9535	B-08/3543	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A105 20 X 15A	Nos.	1	1					Foc
9536	B-08/3544	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A105 25 X 10A	Nos.	11	11					Foc
9537	B-08/3545	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A105 25 X 15A	Nos.	1	1					Foc
9538	B-08/3546	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A105 50X20A	Nos.	1	1					Foc
9539	B-08/3547	CONCENTRIC REDUCER (SOCKET WELD) RC,80,A105,50 X 25A	Nos.	1	1					Foc
9540	B-08/3548	CONCENTRIC REDUCER (SOCKET WELD) RC,160,A105, 50 X 25A	Nos.	5	5					Foc
9541	B-08/3549	CONCENTRIC REDUCER (SOCKET WELD) RC,PT,FCMB,28,1X1/2A	Nos.	17	17					Foc
9542	B-08/3550	CONCENTRIC REDUCER (SOCKET WELD) RC,PT,FCMB 28, 2 X 1A	Nos.	1	1					Foc
9543	B-08/3553	CONCENTRIC REDUCER (SOCKET WELD) PT,RE,XXS, PT, 49, 200 X 80A	Nos.	1	1					Foc
9544	B-08/3554	CONCENTRIC REDUCER (SOCKET WELD) PT,RE,160 PT 49, 80 X 65A	Nos.	1	1					Foc
9545	B-08/3555	CONCENTRIC REDUCER (SOCKET WELD) , RE 160, PT 49, 100 X 65A	Nos.	2	2					Foc
9546	B-08/3556	CONCENTRIC REDUCER (SOCKET WELD) RE 40 PT 38, 65 X 50A	Nos.	1	1					Foc
9547	B-08/3559	CONCENTRIC REDUCER (SOCKET WELD) RE 40 PT 38, 100 X 50A	Nos.	1	1					Foc
9548	B-08/3560	CONCENTRIC REDUCER (SOCKET WELD) RE40PT38, 150 X 80A	Nos.	3	3					Foc
9549	B-08/3561	CONCENTRIC REDUCER (SOCKET WELD) RE40PT38, 200X100A	Nos.	1	1					Foc
9550	B-08/3563	CONCENTRIC REDUCER (SOCKET WELD) RE40PT38, 250X200A	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
9551	B-08/3564	CONCENTRIC REDUCER (SOCKET WELD) RE40PT38, 350X200A	Nos.	1	1					Foc
9552	B-08/3565	CONCENTRIC REDUCER (SOCKET WELD) RE40PT38, 65X50A	Nos.	2	2					Foc
9553	B-08/3570	CONCENTRIC REDUCER RE SGP 150X80A	Nos.	2	2					Foc
9554	B-08/3571	CONCENTRIC REDUCER(SOCKET ELDED) RE,80,A105,20X15A	Nos.	5	5					Foc
9555	B-08/3572	CONCENTRIC REDUCER RE(SOCKET ,RE 80,A105,25X20A	Nos.	1	1					Foc
9556	B-08/3573	CONCENTRIC REDUCER ,SOCKET,RE,80,A105,40X15A.	Nos.	2	2					Foc
9557	B-08/3574	CONCENTRIC REDUCER,SOCKET, RE 80,A105, 15X10A	Nos.	2	2					Foc
9558	B-08/3575	CONCENTRIC REDUCER,SOCKET, RE 80,A105, 40X20A	Nos.	2	2					Foc
9559	B-08/3576	CONCENTRIC REDUCER,SOCKET, RE 80,A105, 40X32A	Nos.	2	2					Foc
9560	B-08/3577	CONCENTRIC REDUCER,SOCKET, RE 80,A105, 50X32A	Nos.	1	1					Foc
9561	B-08/3578	CONCENTRIC REDUCER,RE,PT,FCMB,28 1 1/2 X 3/4 A.	Nos.	2	2					Foc
9562	B-08/3579	CONCENTRIC REDUCER,, RE 80,F304, 15X8A	Nos.	1	1					Foc
9563	B-08/3580	HALF COUPLING (SWAFT) CH,XXS,F22 50A.	Nos.	2	2					Foc
9564	B-08/3581	HALF COUPLING (SWAFT) CH,80, A105, 25A.	Nos.	72	72					Foc
9565	B-08/3582	HALF COUPLING (SWAFT) CH,80, A105 40A.	Nos.	11	11					Foc
9566	B-08/3584	HALF COUPLING (SWAFT)2PT,CH,160,A105,50A.	Nos.	4	4					Foc
9567	B-08/3585	HALF COUPLING (SWAFT) CH,160,A160,A105, 25A	Nos.	6	6					Foc
9568	B-08/3586	FULL COUPLING CF, XXF, F22, 50A	Nos.	11	11					Foc
9569	B-08/3587	FULL COUPLING CF160, F22,50A.	Nos.	8	8					Foc
9570	B-08/3588	FULL COUPLING CF 160,F22, 25A	Nos.	12	12					Foc
9571	B-08/3589	FULL COUPLING CF 160,F22, 50A	Nos.	9	9					Foc
9572	B-08/3590	FULL COUPLING CF 80 ,F22, 25A	Nos.	1	1					Foc
9573	B-08/3591	FULL COUPLING CF 160,F22, 50A	Nos.	6	6					Foc
9574	B-08/3592	FULL COUPLING CF 160,A105, 25A	Nos.	5	5					Foc
9575	B-08/3593	FULL COUPLING CF 80A105 , 8A	Nos.	7	7					Foc
9576	B-08/3594	FULL COUPLING CF 80,A105, 15A	Nos.	7	7					Foc
9577	B-08/3595	FULL COUPLING CF 80 A105, 20A	Nos.	2	2					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
9578	B-08/3596	FULL COUPLING CF 80 A105, 25A	Nos.	58	58					Foc
9579	B-08/3599	FULL COUPLING CF 80 F304, 15A	Nos.	5	5					Foc
9580	B-09/3600	FULL COUPLING CF 80 F304, 50A	Nos.	1	1					Foc
9581	B-09/3601	Full Coupling CF 80, F321 15A	Nos.	95	95					Foc
9582	B-09/3602	Full Coupling CF 80, F321 20A	Nos.	4	4					Foc
9583	B-09/3603	Full Coupling CF, PT, XSW, 80, A105, 1/2 X 15A	Nos.	9	9					Foc
9584	B-09/3604	Full Coupling CF, PT, A105(ZN) 1 1/2X15A	Nos.	6	6					Foc
9585	B-09/3605	Full Coupling CF, PT,FCMB, 28, (ZM) 1/2X15A	Nos.	6	6					Foc
9586	B-09/3606	Full Coupling CF, PT,FCMB, 28, (ZN) 01A	Nos.	1	1					Foc
9587	B-09/3607	Full Coupling CF, PT,FCMB, 28, (ZM) 1 1/2x15A	Nos.	3	3					Foc
9588	B-09/3608	Full Coupling CF, 6000, A105, 25A	Nos.	6	6					Foc
9589	B-09/3609	Full Coupling CF, 6000, 50A	Nos.	2	2					Foc
9590	B-09/3610	Full Coupling CF, 6000, A105, 25A	Nos.	6	6					Foc
9591	B-09/3614	Union (socket weld+PT) UP,SW, 80, A105 10A	Nos.	8	8					Foc
9592	B-09/3617	Union (socket weld+PT) UP,PT, GALV, 1/2	Nos.	3	3					Foc
9593	B-09/3623	Union (socket weld+PT) UP ,PT , 80A 105 1/2	Nos.	2	2					Foc
9594	B-09/3624	Union (socket weld+PT) UP,PT, GALV, 10A	Nos.	2	2					Foc
9595	B-09/3625	Cap (socket weld+PT) KA, XXS, F22, 25A	Nos.	2	2					Foc
9596	B-09/3626	Cap (socket weld+PT) KA, 80, F22, 25A	Nos.	2	2					Foc
9597	B-09/3627	Cap (socket weld+PT) KA,XXS F22 50A	Nos.	3	3					Foc
9598	B-09/3628	Cap (socket weld+PT) KA, 80 F22 50A	Nos.	5	5					Foc
9599	B-09/3629	Cap (socket weld & PT) KA, 80, A105, 10A	Nos.	44	44					Foc
9600	B-09/3630	Cap (socket weld & PT) KA, 80, A105, 15A	Nos.	39	39					Foc
9601	B-09/3631	Cap (socket weld & PT) KA, 80, A105, 25A	Nos.	6	6					Foc
9602	B-09/3632	Cap (socket weld & PT) KA-PT-80, A105, 40A	Nos.	3	3					Foc
9603	B-09/3633	Cap (socket weld & PT) KA-80, A105, 50A	Nos.	3	3					Foc
9604	B-09/3634	Cap (socket weld & PT) KA-PT-80, A105, 20A	Nos.	26	26					Foc
9605	B-09/3636	Cap (socket weld & PT) KA-PT-80, A105, 40A	Nos.	2	2					Foc
9606	B-09/3637	Cap (socket weld & PT) KA-PT-80, A105, 50A	Nos.	2	2					Foc
9607	B-09/3638	Cap (socket weld & PT) KA-PT-80 F22 25A	Nos.	1	1					Foc
9608	B-09/3639	Cap (socket weld & PT) KA-PT-160 A105 25A	Nos.	5	5					Foc
9609	B-09/3640	Cap (socket weld & PT) KA-PT-160 A105 50A	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
9610	B-09/3641	Cap (socket weld & PT) KA-PT-SUS 321 25A	Nos.	1	1					Foc
9611	B-09/3643	Cap (socket weld & PT) KA-PT-FCMB 28 (ZN) 1 1/2A	Nos.	5	5					Foc
9612	B-09/3645	Cap (Butt weld & PT) KA-PT 80 F321 3/4A	Nos.	1	1					Foc
9613	B-09/3646	Cap (Butt weld & PT) KA-160-PT-49, 65A	Nos.	2	2					Foc
9614	B-09/3647	Cap (Butt weld & PT) KA-160-PT-49, 80A	Nos.	2	2					Foc
9615	B-09/3648	Cap (Butt weld) KA-40-PT-38, 100A	Nos.	1	1					Foc
9616	B-09/3649	Cap (Butt weld) KA-40-PT-38, 200A	Nos.	1	1					Foc
9617	B-09/3650	Cap (Butt weld) KA-40-PT-38, 250A	Nos.	1	1					Foc
9618	B-09/3651	Cap (Butt weld) KA-40-PT-38, 400A	Nos.	1	1					Foc
9619	B-09/3652	Cap (Butt weld) KA-SGP, 65A	Nos.	3	3					Foc
9620	B-09/3653	Cap (Butt weld) KA-SGP, 150A	Nos.	1	1					Foc
9621	B-09/3654	Cap (Butt weld) KA-SGP, 500A	Nos.	1	1					Foc
9622	B-09/3656	Cap (Butt weld) KA-SGP(ZN), 150A	Nos.	2	2					Foc
9623	B-09/3668	Valve Gate 150-A105, 65A	Nos.	1	1					Foc
9624	B-09/3669	Valve Gate 150-A105, 80A	Nos.	1	1					Foc
9625	B-09/3670	Insulating Cement (5600)	Nos.	7	7					Foc
9626	B-09/3672	Testo Silver 4Ltr	Nos.	44	44					Foc
9627	B-09/3673	Baffles Plate R/H	Nos.	29	29					Foc
9628	B-09/3674	Insulation Material Support	Nos.	10	10					Foc
9629	B-09/3675	Sealent	Nos.	100	100					Foc
9630	B-09/3676	Screws	Kgs	45	45					Foc
9631	B-09/3679	Napo 4 Bags (Each Bag = 50kg)	Nos.	14	14					Foc
9632	B-09/3680	Beam Attachment	Nos.	36	36					Foc
9633	B-09/3681	Claves Attachment	Nos.	22	22					Foc
9634	B-09/3682	Nozzle Of Duet With Cap	Nos.	15	15					Foc
9635	B-09/3683	Claves of hanger Rod	Nos.	3	3					Foc
9636	B-09/3684	Hanger Rod (Complete) S11	Nos.	1	1					Foc
9637	B-09/3685	Clavis (S-25)	Nos.	1	1					Foc
9638	B-09/3686	Saddle HSD , Oil Tang	Nos.	1	1					Foc
9639	B-09/3687	Saddle Off , Ro Tank	Nos.	1	1					Foc
9640	B-09/3688	Speicial Cating Rol	Nos.	12	12					Foc
9641	B-09/3689	Pipe With both side flanje o' 755 1600 MM	Nos.	6	6					Foc

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9642	B-09/3691	Packing of Soot Blower Valve	Nos.	14	14					Foc
9643	B-09/3693	Rod for access door 460 MM	Nos.	20	20					Foc
9644	B-09/3694	Chemical Anchar 12 X 85	Nos.	2	2					Foc
9645	B-09/3695	Dowm Pipe Elbow	Nos.	6	6					Foc
9646	B-09/3696	Bader Valve Name Plate	Nos.	205	205					Foc
9647	B-09/3697	Damper plate	Nos.	18	18					Foc
9648	B-09/3698	Studd Ball 40 X 300	Nos.	60	60					Foc
9649	B-09/3702	Studd Ball 40 X 500	Nos.	11	11					Foc
9650	B-09/3704	Tee Bolt (Different Size)	Kg.	554	554					Foc
9651	B-09/3706	Rawal Bolt (Different Size)	Kg.	8	8					Foc
9652	B-09/3707	Trun Bucket	Nos.	18	18					Foc
9653	B-09/3709	Zero Gas Cylinder	Nos.	1	1					Foc
9654	B-09/3712	Relay Types MY 4 AC 110v OMRON	Nos.	5	5					Foc
9655	B-09/3713	Relay Types MY 4 AE 110v Galdstar	Nos.	6	6					Foc
9656	B-09/3714	Relay Type MY 4 DC 48v OMRON	Nos.	6	6					Foc
9657	B-09/3715	Relay Type AM2 X PAC 220v OMRON	Nos.	2	2					Foc
9658	B-09/3716	Timer type H3Y 4 DC 24v 5SEE	Nos.	1	1					Foc
9659	B-09/3717	Timer type H3Y 4 DC 110v 5SEE	Nos.	1	1					Foc
9660	B-09/3718	Timer type ST3 P AC 110v	Nos.	1	1					Foc
9661	B-09/3719	Thermal Overload Relay 0.55.0 85A	Nos.	1	1					Foc
9662	B-09/3720	Magnetic Contracter Typer SRX 4	Nos.	1	1					Foc
9663	B-09/3721	Solinoid Valve M 3 P0712g j	Nos.	2	2					Foc
9664	B-09/3722	Solinoid Valve Cail With Plate Lamp For v/v Rook	Nos.	9	9					Foc
9665	B-09/3723	Pebd for pcs of m p t b/eea PAM -525-A 11	Nos.	2	2					Foc
9666	B-09/3724	ignitor spacer	Nos.	1	1					Foc
9667	B-09/3725	fuse plug type 3A	Nos.	5	5					Foc
9668	B-09/3726	fuse plug type 5A	Nos.	9	9					Foc
9669	B-09/3728	Zero Gas For Analyzer	Nos.	1	1					Foc
9670	B-09/3729	S Press Switch For Seat Blower	Nos.	1	1					Foc
9671	B-09/3730	Manual Handle For Lead Switch Of Sakera	Nos.	1	1					Foc
9672	B-09/3731	Spendle For Tubler	Nos.	3	3					Foc
9673	B-09/3732	Refrences Buffer , Salation PH 9	Nos.	1	1					Foc

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9674	B-09/3733	Fuse 025 A P/H 014238	Nos.	9	9					Foc
9675	B-09/3734	Electrode P/H 117486,0,10 PH	Nos.	2	2					Foc
9676	B-09/3735	Sharting Cable P/H 040874	Nos.	3	3					Foc
9677	B-09/3736	O Ring S 41135 , P-29	Nos.	6	6					Foc
9678	B-09/3741	Nut P/H 003495	Nos.	3	3					Foc
9679	B-09/3742	Brine Plug PT 3/8"	Nos.	9	9					Foc
9680	B-09/3743	Circuit Pratector	Nos.	2	2					Foc
9681	B-09/3745	Aux Relay Ac 10	Nos.	15	15					Foc
9682	B-09/3746	Terrminal	Nos.	90	90					Foc
9683	B-09/3748	Flow Transmitter Fx-103-1A	Nos.	1	1					Foc
9684	B-09/3749	Flow Transmitter Fx-103-2A	Nos.	1	1					Foc
9685	B-09/3750	Flow Transmitter Fx-103-1B	Nos.	1	1					Foc
9686	B-09/3751	Flow Transmitter FX-103-2B	Nos.	1	1					Foc
9687	B-09/3752	Half Union flare Type, PT, 1/4 - 10	Nos.	14	14					Foc
9688	B-09/3753	Tee Union Flow Type 6x6x6	Nos.	12	12					Foc
9689	B-09/3754	Miniature Valve PT, 1/47-B-6	Nos.	4	4					Foc
9690	B-09/3756	Half Union 135 BM PT 1/2-B-6	Nos.	27	27					Foc
9691	B-09/3758	Flare Type PT, 1/4-B-10	Nos.	30	30					Foc
9692	B-09/3759	Flare Type PT 3/4-B-12	Nos.	15	15					Foc
9693	B-09/3760	Cap Tube Sus 316-1/2(M) 1/2	Nos.	5	5					Foc
9694	B-09/3761	Half Union Sus Cap Ty-PT 1/4-6	Nos.	7	7					Foc
9695	B-09/3762	Jamt Sus Comp: Type, 6x6	Nos.	6	6					Foc
9696	B-09/3763	Half Union Pt 1/4-6	Nos.	1	1					Foc
9697	B-09/3765	Solderless Terminal 100-14	Nos.	4	4					Foc
9698	B-09/3766	Solderless Terminal 2-M-53	Nos.	900	900					Foc
9699	B-09/3767	Solderless Terminal 22-8	Nos.	75	75					Foc
9700	B-09/3768	Solderless Terminal 14-6	Nos.	6	6					Foc
9701	B-09/3769	Solderless Terminal 2-3-5-S	Nos.	25	25					Foc
9702	B-09/3771	Solderless Terminal 1.25-FX4	Nos.	80	80					Foc
9703	B-09/3772	Solderless Terminal 2-L3-S	Nos.	98	98					Foc
9704	B-09/3774	Solderless Terminal 14/8	Nos.	11	11					Foc
9705	B-09/3775	Solderless Terminal 3-6	Nos.	8	8					Foc

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9706	B-09/3776	Solderless Terminal 36-6	Nos.	47	47					Foc
9707	B-09/3777	Solderless Terminal 38-10	Nos.	30	30					Foc
9708	B-09/3778	Solderless Terminal 5-5-6	Nos.	80	80					Foc
9709	B-09/3779	Solderless Terminal 1-25-4	Nos.	4	4					Foc
9710	B-09/3780	Jain (For Fliued) P/F3/8F	Nos.	32	32					Foc
9711	B-09/3781	Half Union Rum Type PT, 1/4-10/8	Nos.	5	5					Foc
9712	B-09/3783	Joint Elbow PT 1/4mm	Nos.	8	8					Foc
9713	B-09/3784	Jamt Straf PT 1/4m	Nos.	6	6					Foc
9714	B-09/3787	Steel Joint Pf 1/2m-1/2	Nos.	6	6					Foc
9715	B-09/3788	Steel Joint Pf 1/2 F-1/2	Nos.	2	2					Foc
9716	B-09/3789	Sus Joint PF 1/4 m 1/2	Nos.	6	6					Foc
9717	B-09/3790	Fuse	Nos.	20	20					Foc
9718	B-09/3791	Hr Rectifire BRD Assy	Nos.	2	2					Foc
9719	B-09/3792	Flush Tube Kit	Nos.	10	10					Foc
9720	B-09/3793	Relay	Nos.	2	2					Foc
9721	B-09/3794	Tining Tigger BRD	Nos.	2	2					Foc
9722	B-09/3795	Suppresor Assy	Nos.	4	4					Foc
9723	B-09/3796	Soket for Relay	Nos.	8	8					Foc
9724	B-09/3797	On Delay Timer DC-220-V-0.1-10	Nos.	1	1					Foc
9725	B-09/3798	On Delay Timer DC-220-V-0-10	Nos.	1	1					Foc
9726	B-09/3799	On Delay Timer DC-220-V-5-60	Nos.	1	1					Foc
9727	B-09/3800	On Delay Timer DC-110V-2,5-30	Nos.	1	1					Foc
9728	B-10/3801	Socket for Timer	Nos.	4	4					Foc
9729	B-10/3802	Soft Tape	Mtr.	1	1					Foc
9730	B-10/3803	Soft Tape	Mtr.	1	1					Foc
9731	B-10/3804	Electric Megnetic Contactor	Nos.	1	1					Foc
9732	B-10/3805	Surge Absober	Nos.	5	5					Foc
9733	B-10/3806	Fuse	Nos.	2	2					Foc
9734	B-10/3807	Cos	Nos.	1	1					Foc
9735	B-10/3808	Plate Lamp Dc220V Read	Nos.	1	1					Foc
9736	B-10/3809	Plate Lamp Dc 220V Green	Nos.	1	1					Foc
9737	B-10/3810	PB (Pus Button)	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
9738	B-10/3811	Hi Type Rubber	Mtr.	2	2					Foc
9739	B-10/3812	Manual Control Switch	Nos.	1	1					Foc
9740	B-10/3813	Plate Lamp AA110-V Red	Nos.	1	1					Foc
9741	B-10/3814	Plate Lamp Ac 110V Green	Nos.	1	1					Foc
9742	B-10/3815	On Delay Timer AC 110V-.1-G	Nos.	1	1					Foc
9743	B-10/3816	ANN Relay With Lamp	Nos.	1	1					Foc
9744	B-10/3817	Color Ring	Pkt.	1	1					Foc
9745	B-10/3818	Resistance Aux Relay	Nos.	10	10					Foc
9746	B-10/3819	Touch up Paint with brush N,9,5,7,5 BG5/2N.74	Nos.	3	3					Foc
9747	B-10/3821	Head Pipe STPA-24,15A, SCH40,15Ax5500mm	Nos.	1	1					Foc
9748	B-10/3829	Full Coupling SCH 80 15A	Nos.	129	129					Foc
9749	B-10/3830	Full Coupling SCH 80 20A	Nos.	20	20					Foc
9750	B-10/3831	Full Coupling SCH 160, 15A (SW&PT) Socket	Nos.	2	2					Foc
9751	B-10/3832	Full Coupling SCH 160, 15A (SW)	Nos.	7	7					Foc
9752	B-10/3833	Full Coupling PT-1/2B (91 socket)	Nos.	17	17					Foc
9753	B-10/3834	Adapter S25C SCH,80, 15A PT 1/2 B	Nos.	23	23					Foc
9754	B-10/3835	Adapter S25C SCH,80, 20A PT 3/4 B	Nos.	39	39					Foc
9755	B-10/3836	Adapter S25C SCH,80, 15A PT 1/2 B	Nos.	2	2					Foc
9756	B-10/3837	Adapter S25C SCH,160, 15A PT 1/2 B	Nos.	4	4					Foc
9757	B-10/3838	Reducer S25C SCH,80 20A-15A	Nos.	9	9					Foc
9758	B-10/3839	Reducer S25C SCH,160 25A-15A	Nos.	9	9					Foc
9759	B-10/3840	Reducer S25C SCH,80 40A-15A	Nos.	4	4					Foc
9760	B-10/3841	Reducer S25C SCH,160 25A-15A	Nos.	4	4					Foc
9761	B-10/3842	Equal Tee S25C SCH 80, 15A	Nos.	14	14					Foc
9762	B-10/3843	Equal Tee S25C SCH 160, 15A	Nos.	3	3					Foc
9763	B-10/3844	Tee S25C SCH 80, 15A-15A 1/2 B	Nos.	3	3					Foc
9764	B-10/3846	Tee A182 SCH 160, 15A-15A 1/2B	Nos.	1	1					Foc
9765	B-10/3847	Tee A182 SCH 80 15A 1/2-1/2 B	Nos.	2	2					Foc
9766	B-10/3848	Tee A182 SCH 160, 15A 1/2-1/2B	Nos.	3	3					Foc
9767	B-10/3849	Tee SCH80, 15A - 1/2 15A	Nos.	4	4					Foc
9768	B-10/3850	Elbow S25C SCH 80 -15A	Nos.	12	12					Foc
9769	B-10/3854	Draft Crass SCH 80 3/4"	Nos.	10	10					Foc

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9770	B-10/3855	Bush FCM BW PT-1/2B 1/4 B	Nos.	30	30					Foc
9771	B-10/3856	Plug S25C PT 1/2 B	Nos.	12	12					Foc
9772	B-10/3857	Plug S25c PT 3/4 B	Nos.	10	10					Foc
9773	B-10/3858	SUS Buckle	Nos.	140	140					Foc
9774	B-10/3859	Ethylene glycl	Can	5	5					Foc
9775	B-10/3860	Punching Palte	Nos.	6	6					Foc
9776	B-10/3861	Punching Palte (1600mm)	Nos.	1	1					Foc
9777	B-10/3862	Punching Plate (2000mm)	Nos.	1	1					Foc
9778	B-10/3863	Punching Plate (1000mm)	Nos.	1	1					Foc
9779	B-10/3864	Blud Cap PT 1/2	Nos.	4	4					Foc
9780	B-10/3865	Blud Cap PT 3/4	Nos.	1	1					Foc
9781	B-10/3866	Lodder Straght 200WXx2400L	Nos.	2	2					Foc
9782	B-10/3867	Lodder Straght 200WXx1800L	Nos.	1	1					Foc
9783	B-10/3868	Lodder Straght 300WXx740L	Nos.	1	1					Foc
9784	B-10/3869	Lodder Straght 300WXx950L	Nos.	1	1					Foc
9785	B-10/3870	Leadder Jainer Bolt & Nuts	Nos.	148	148					Foc
9786	B-10/3871	Solid Straught 220Wx2400L	Nos.	8	8					Foc
9787	B-10/3872	Solid Straught 200Wx1050L	Nos.	1	1					Foc
9788	B-10/3873	Solid Straught 200Wx1300L	Nos.	1	1					Foc
9789	B-10/3874	Solid End Plate 200W	Nos.	2	2					Foc
9790	B-10/3875	Solid End Plate 300W	Nos.	1	1					Foc
9791	B-10/3876	Cover Clamp Bolt	Nos.	740	740					Foc
9792	B-10/3877	Ladder Couer Stright 200wx1700L	Nos.	2	2					Foc
9793	B-10/3878	Leadder Couver Stright 200Wx1200	Nos.	34	34					Foc
9794	B-10/3879	Ladder Cauver Shraght 200Wx1600	Nos.	1	1					Foc
9795	B-10/3880	Ladder Cauver Strright 200Wx1300	Nos.	1	1					Foc
9796	B-10/3881	Ladder Cauver Vertical Caver 200Wx900L	Nos.	1	1					Foc
9797	B-10/3882	Solid Cover Shraight 200Wx1050L	Nos.	1	1					Foc
9798	B-10/3883	Solid Cover Shraight 200Wx1725L	Nos.	1	1					Foc
9799	B-10/3884	Solid Cover Shraight 300Wx1550L	Nos.	1	1					Foc
9800	B-10/3885	Solid Cover Shraight 300Wx1200L	Nos.	1	1					Foc
9801	B-10/3886	Solid Cover Vertical Angle 200W	Nos.	8	8					Foc

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9802	B-10/3887	Cour Clamp 200W	Nos.	888	888					Foc
9803	B-10/3888	Hexgan Head Bolt & Nut M.8x30L	Nos.	30	30					Foc
9804	B-10/3889	Hexgan Head Bolt & Nut M.16x30L	Nos.	38	38					Foc
9805	B-10/3890	Hexgan Head Bolt & Nut M.16x45L	Nos.	44	44					Foc
9806	B-10/3891	Eye Bolt Nut M.16x30L	Nos.	42	42					Foc
9807	B-10/3892	Bolt for Tray Jointing M8x10L	Nos.	700	700					Foc
9808	B-10/3893	Nut For Tray Jointing M8	Nos.	560	560					Foc
9809	B-10/3900	CV Cable 2SQ-12C	Mtr.	186	186					Foc
9810	B-10/3901	CVV Cable 2SQ-20C	Mtr.	33	33					Foc
9811	B-10/3902	CVV Cable 2SQ-30C	Mtr.	6	6					Foc
9812	B-10/3904	ExG VV-S Cable 1,3,SQ-P1P	Mtr.	10	10					Foc
9813	B-10/3905	ExG VV-S Cable 1,3,SQ-7P	Mtr.	150	150					Foc
9814	B-10/3907	TXG VV-S Cable 1,3,SQ-3C	Mtr.	60	60					Foc
9815	B-10/3908	TXG VV-S Cable 1,3,SQ-10P	Mtr.	80	80					Foc
9816	B-10/3909	I V Wire 38 SQ	Mtr.	350	350					Foc
9817	B-10/3910	Capper Wire 100	Mtr.	20	20					Foc
9818	B-10/3911	Capper Wire 60	Mtr.	65	65					Foc
9819	B-10/3912	Local INSTRUMENT Box Type A,	Nos.	1	1					Foc
9820	B-10/3913	Local INSTRUMENT Box Type A,	Nos.	1	1					Foc
9821	B-10/3914	Local INSTRUMENT Box Type A,	Nos.	1	1					Foc
9822	B-10/3915	Attachm and for Lighting Wire	Nos.	24	24					Foc
9823	B-10/3916	Attachm and for Lighting Wire	Nos.	4	4					Foc
9824	B-10/3917	Tee Branch	Nos.	2	2					Foc
9825	B-10/3918	Terminal Plate	Nos.	2	2					Foc
9826	B-10/3921	Rigid Sted Conduct Pipe 36x3660 mm	Nos.	2	2					Foc
9827	B-10/3922	Rigid Sted Conduct Pipe 42x3660 mm	Nos.	1	1					Foc
9828	B-10/3923	Rigid Sted Conduct Pipe 54x3660 mm	Nos.	3	3					Foc
9829	B-10/3924	Rigid Sted Conduct Pipe 70x3660 mm	Nos.	6	6					Foc
9830	B-10/3925	Rigid Sted Conduct Pipe 93x3660 mm	Nos.	5	5					Foc
9831	B-10/3926	Normal Band NB-28	Nos.	32	32					Foc
9832	B-10/3927	Normal Band NB-36	Nos.	24	24					Foc
9833	B-10/3928	Normal Band NB-42	Nos.	91	91					Foc

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1	2	3	4	5	6	7	8	10	11	12
9834	B-10/3929	Normal Band NB-54	Nos.	18	18					Foc
9835	B-10/3930	Normal Band NB-70	Nos.	1	1					Foc
9836	B-10/3931	Capling CL 16 (91.50)	Nos.	25	25					Foc
9837	B-10/3932	Capling CL 22 (3/4")	Nos.	15	15					Foc
9838	B-10/3933	Caupling Cl 28	Nos.	194	194					Foc
9839	B-10/3934	Caupling Cl 36	Nos.	19	19					Foc
9840	B-10/3935	Caupling Cl 42	Nos.	107	107					Foc
9841	B-10/3936	Caupling Cl 54	Nos.	2	2					Foc
9842	B-10/3937	Caupling Cl 70	Nos.	14	14					Foc
9843	B-10/3938	Caupling Cl 92	Nos.	1	1					Foc
9844	B-10/3939	Instalation Bushing BU-16	Nos.	26	26					Foc
9845	B-10/3940	Instalation Bushing BU-22	Nos.	302	302					Foc
9846	B-10/3941	Instalation Bushing BU-28	Nos.	54	54					Foc
9847	B-10/3942	Instalation Bushing BU-36	Nos.	67	67					Foc
9848	B-10/3943	Instalation Bushing BU-42	Nos.	45	45					Foc
9849	B-10/3944	Instalation Bushing BU-54	Nos.	29	29					Foc
9850	B-10/3945	Instalation Bushing BU-70	Nos.	7	7					Foc
9851	B-10/3946	Instalation Bushing BU-82	Nos.	10	10					Foc
9852	B-10/3947	Instalation Bushing BU-92	Nos.	5	5					Foc
9853	B-10/3948	Conduct Cap 36	Nos.	24	24					Foc
9854	B-10/3949	Canduct Plug 36	Nos.	14	14					Foc
9855	B-10/3950	Canduct Cap 22	Nos.	38	38					Foc
9856	B-10/3953	Canduct Cap 28	Nos.	7	7					Foc
9857	B-10/3954	Canduct Cap 70	Nos.	7	7					Foc
9858	B-10/3955	Canduct Cap 70	Nos.	8	8					Foc
9859	B-10/3956	Canduct Cap 54	Nos.	6	6					Foc
9860	B-10/3957	Canduct Cap 54	Nos.	6	6					Foc
9861	B-10/3958	Canduct Cap 92	Nos.	1	1					Foc
9862	B-10/3959	Canduct Plug 92	Nos.	3	3					Foc
9863	B-10/3960	Canduct Plug PTL (Used)	Nos.	48	48					Foc
9864	B-10/3961	Universal Channal L-150	Nos.	9	9					Foc
9865	B-10/3962	Lock Nut 16	Nos.	6	6					Foc

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1	2	3	4	5	6	7	8	10	11	12
9866	B-10/3963	Lock Nut 22	Nos.	200	200					Foc
9867	B-10/3964	Lock Nut 28	Nos.	185	185					Foc
9868	B-10/3965	Lock Nut 36	Nos.	50	50					Foc
9869	B-10/3966	Lock Nut 42	Nos.	260	260					Foc
9870	B-10/3967	Lock Nut 54	Nos.	19	19					Foc
9871	B-10/3968	Lock Nut 70	Nos.	27	27					Foc
9872	B-10/3971	Flixable Canduct 42	Mtr.	8	8					Foc
9873	B-10/3972	Flixable Canduct 54	Mtr.	24	24					Foc
9874	B-10/3973	Flixable Canduct 70	Mtr.	13	13					Foc
9875	B-10/3974	Caupling Type Canduct 22	Nos.	1	1					Foc
9876	B-10/3975	Caupling Type Canduct 28	Nos.	5	5					Foc
9877	B-10/3976	Caupling Type Canduct 36	Nos.	12	12					Foc
9878	B-10/3977	Caupling Type Canduct 42	Nos.	5	5					Foc
9879	B-10/3978	Caupling Type Canduct 54	Nos.	10	10					Foc
9880	B-10/3979	Caupling Type Canduct 70	Nos.	7	7					Foc
9881	B-10/3980	Box Type Canduct 22	Nos.	8	8					Foc
9882	B-10/3981	Box Type Canduct 28	Nos.	10	10					Foc
9883	B-10/3982	Box Type Canduct 36	Nos.	12	12					Foc
9884	B-10/3983	Box Type Canduct 42	Nos.	13	13					Foc
9885	B-10/3984	Box Type Canduct 54	Nos.	20	20					Foc
9886	B-10/3985	Box Type Canduct 70	Nos.	9	9					Foc
9887	B-10/3986	Box Type Canduct 22	Nos.	16	16					Foc
9888	B-10/3987	Box Type Canduct 28	Nos.	8	8					Foc
9889	B-10/3988	Box Type Canduct 42	Nos.	5	5					Foc
9890	B-10/3989	Box Type Canduct 54	Nos.	8	8					Foc
9891	B-10/3990	Box Type Canduct 70	Nos.	13	13					Foc
9892	B-10/3991	Union Coupling UCL-16	Nos.	2	2					Foc
9893	B-10/3993	Union Coupling UCL-28	Nos.	28	28					Foc
9894	B-10/3994	Union Coupling UCL-36	Nos.	25	25					Foc
9895	B-10/3995	Union Coupling UCL-42	Nos.	4	4					Foc
9896	B-10/3996	Union Coupling UCL-54	Nos.	2	2					Foc
9897	B-10/3997	Reducer 22-16	Nos.	1	1					Foc

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9898	B-10/3998	Reducer BR 28-22	Nos.	32	32					Foc
9899	B-10/3999	Reducer BR 36-28	Nos.	10	10					Foc
9900	B-10/4000	Adapter PF 3/8 (M)	Nos.	31	31					Foc
9901	B-11/4001	UNIVERSAL FITTING 22	Nos.	45	45					Foc
9902	B-11/4002	UNIVERSAL FITTING 28	Nos.	24	24					Foc
9903	B-11/4003	UNIVERSAL FITTING 36	Nos.	20	20					Foc
9904	B-11/4004	UNIVERSAL FITTING 42	Nos.	5	5					Foc
9905	B-11/4005	UNIVERSAL FITTING 54	Nos.	5	5					Foc
9906	B-11/4006	CIRCULAR BOX 3 WAY 16	Nos.	25	25					Foc
9907	B-11/4007	CIRCULAR BOX 3 WAY 22	Nos.	15	15					Foc
9908	B-11/4008	REDUCER 42- 28	Nos.	3	3					Foc
9909	B-11/4009	REDUCER LB-16	Nos.	20	20					Foc
9910	B-11/4010	REDUCER LB-28	Nos.	1	1					Foc
9911	B-11/4011	PULL BOX 100X100	Nos.	4	4					Foc
9912	B-11/4012	PULL BOX 200X200	Nos.	23	23					Foc
9913	B-11/4013	PULL BOX 250X250	Nos.	11	11					Foc
9914	B-11/4014	PULL BOX 300X300	Nos.	6	6					Foc
9915	B-11/4015	PULL BOX 350X200	Nos.	7	7					Foc
9916	B-11/4016	PULL BOX 400X300	Nos.	1	1					Foc
9917	B-11/4017	PIPE CLAMP- 16	Nos.	54	54					Foc
9918	B-11/4018	PIPE CLAMP- 22	Nos.	35	35					Foc
9919	B-11/4019	PIPE CLAMP- 36	Nos.	46	46					Foc
9920	B-11/4020	PIPE CLAMP- 42	Nos.	26	26					Foc
9921	B-11/4021	PIPE RACK	Nos.	76	76					Foc
9922	B-11/4022	C, CLAMP 250 QQ-250 SQ/GI	Nos.	12	12					Foc
9923	B-11/4024	C, CLAMP 250 SQ-38 SQ	Nos.	136	136					Foc
9924	B-11/4025	U, BOLT 15A 8	Nos.	1504	1504					Foc
9925	B-11/4028	U, BOLT 22- 6	Nos.	10	10					Foc
9926	B-11/4030	U, BOLT 36-6	Nos.	46	46					Foc
9927	B-11/4031	U, BOLT & NUT 42-6	Nos.	150	150					Foc
9928	B-11/4032	U, BOLT & NUT 54-6	Nos.	108	108					Foc
9929	B-11/4033	U, BOLT 70-6	Nos.	55	55					Foc

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9930	B-11/4037	HEXAGONE HEAD BELT M16X40L	Nos.	54	54					Foc
9931	B-11/4039	PLANE WASHER M8	Nos.	634	634					Foc
9932	B-11/4040	PLANE WASHER M12	Nos.	114	114					Foc
9933	B-11/4041	PLANE WASHER M16	Nos.	1	1					Foc
9934	B-11/4042	HEXAGONE NUT M8	Nos.	7686	7686					Foc
9935	B-11/4045	HEXAHEAD BELT STAINLESS STEEL M10X30	Nos.	2	2					Foc
9936	B-11/4046	HEXAHEAD BELT WITH NUT WASHER M8X50	Nos.	7	7					Foc
9937	B-11/4047	HEXAHEAD BELT WITH NUT WASHER M8X75	Nos.	20	20					Foc
9938	B-11/4048	HEXAHEAD BELT WITH NUT WASHER M10X30	Nos.	20	20					Foc
9939	B-11/4049	HEXAHEAD BELT WITH NUT WASHER M8X20	Nos.	50	50					Foc
9940	B-11/4050	SPRING WASHER M16	Nos.	36	36					Foc
9941	B-11/4051	SPRING WASHER M12	Nos.	24	24					Foc
9942	B-11/4054	SPRING WASHER M 12	Nos.	36	36					Foc
9943	B-11/4055	CHANNEL 150X75	Mtr.	9*2.3	9*2.3					Foc
9944	B-11/4056	JUNCTION BOX 4 TERMINAL	Nos.	2	2					Foc
9945	B-11/4057	STAIR CHAIN S TYPE.	Nos.	16	16					Foc
9946	B-11/4058	STAIR CHAIN S TYPE.	Nos.	16	16					Foc
9947	B-11/4059	STAIR CHAIN A TYPE.	Nos.	3	3					Foc
9948	B-11/4060	STAIR CHAIN A TYPE.	Nos.	2	2					Foc
9949	B-11/4061	EARTH PIECE.	Nos.	9	9					Foc
9950	B-11/4062	PVC CONDUIT PC 28	Mtr.	11.5	11.5					Foc
9951	B-11/4063	PVC COUPLING	Nos.	16	16					Foc
9952	B-11/4064	PVC BUSHING	Nos.	25	25					Foc
9953	B-11/4066	RACK SV, 13	Nos.	200	200					Foc
9954	B-11/4067	CABLE CLIP	Nos.	72	72					Foc
9955	B-11/4068	CABLE CLIP	Nos.	200	200					Foc
9956	B-11/4069	UNIVERSAL CHANNEL 2.5 m	Nos.	1	1					Foc
9957	B-11/4070	UNIVERSAL CHANNEL 2.1 m	Nos.	1	1					Foc
9958	B-11/4073	WELDING ELECTRODE CMA 106, 20KG 3.2X350, 1=4PKT	Nos.	212	212					Foc
9959	B-11/4075	GAS WELDING RODTGS,50(5KG) 2.4X1000.	Nos.	77	77					Foc
9960	B-11/4076	WELDING RODTGS,50(5KG) 2.0X1000.	Nos.	30	30					Foc

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9961	B-11/4077	WELDING ROD TGS,308(2KG) 2.4X1000.	Nos.	4	4					Foc
9962	B-11/4078	WELDING ROD TGS,70NCB,(5KG) 2.0X1000	Nos.	4	4					Foc
9963	B-11/4080	WELDING ELECTROD B.14 (20KG) 6.0X450	Nos.	2	2					Foc
9964	B-11/4081	WELDING ELECTROD B26(20 KG) 6.0X450	Nos.	1	1					Foc
9965	B-11/4082	WELDING ELECTROD TGS 347(2KG) 2.4X1000	Nos.	17	17					Foc
9966	B-11/4083	GAS WELDING ROD TGS 1CM (5KG) 2.4X1000	Nos.	16	16					Foc
9967	B-11/4084	GAS WELDING ROD TGS 347(2KG) 2X1000	Nos.	15	15					Foc
9968	B-11/4086	GAS WELDING ROD TGS 2CM(5KG) 2.4X1000	Nos.	9	9					Foc
9969	B-11/4090	MALYEATE 20 KG.	Nos.	1	1					Foc
9970	B-11/4091	OMALA OIL 680 (20 LITERS)	Nos.	1	1					Foc
9971	B-11/4092	OMALA OIL 150 (20 LITERS)	Nos.	2	2					Foc
9972	B-11/4093	TELLUS OIL - 22 (20 LITERS)	Nos.	1	1					Foc
9973	B-11/4095	Hydrollic Snubber Oil (4 Ltr)	Nos.	2	2					Foc
9974	B-11/4096	EPOXY THINNER	Nos.	2	2					Foc
9975	B-11/4097	Tareta Silver	Nos.	3	3					Foc
9976	B-11/4101	WELDING ROD TGS M (5KG)	Nos.	17	17					Foc
9977	B-11/4105	PAINT MCL EPLUX 5 BASE (3 LITER)	Tin	39	39					Foc
9978	B-11/4106	ZINC PRIMER (3 LITER)	Tin	18	18					Foc
9979	B-11/4107	PAINT EPLUX 610 (3LITER)	Tin	2	2					Foc
9980	B-11/4108	PAINT CLIFTAN SAND (4 LITER)	Tin	3	3					Foc
9981	B-11/4122	PAINT HARDNER EP5 BLACK (ONE LITER)	Tin	42	42					Foc
9982	B-11/4123	HARDNER PAINT FOR ZINC PRIMER (ONE LITER)	Tin	19	19					Foc
9983	B-11/4124	PAINT EPLUX 60 (ONE LITER)	Tin	1	1					Foc
9984	B-11/4125	PAINT RED OXIDE (20 LITER)	Tin	2	2					Foc
9985	B-11/4126	Turpantune Oil (20 Litter)	Tin	1	1					Foc
9986	B-11/4127	ASPHALT PRIMIER (20 LITER)	Tin	9	9					Foc
9987	B-11/4129	VALVE PT Branze 5 k 15A	Nos.	2	2					Foc
9988	B-11/4136	VALVE 600 WGV A-182,-F30, 15A	Nos.	1	1					Foc
9989	B-11/4139	VALVE 600 CHECK VALVE - A-105, 40A	Nos.	1	1					Foc
9990	B-11/4140	VALVE 600 CHECK VALVE - A-105, 25A	Nos.	1	1					Foc
9991	B-11/4141	VALVE 900 CHECK VALVE - A-182, F22, 25A	Nos.	1	1					Foc
9992	B-11/4144	NEEDLE VALVE 30 K 3/8 A	Nos.	3	3					Foc

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9993	B-11/4145	VALVE,BUTTER FLY VALVE.	Nos.	1	1					Foc
9994	B-11/4146	HALF COUPLING SW PT CH 60-A105, 10A	Nos.	2	2					Foc
9995	B-11/4147	HALF COUPLING SW PT CH 40-S25C, 15A	Nos.	2	2					Foc
9996	B-11/4148	HALF COUPLING SW CH 80-A105, 20A	Nos.	2	2					Foc
9997	B-11/4149	HALF COUPLING SW CH 160-A105, 25A	Nos.	3	3					Foc
9998	B-11/4150	HALF COUPLING SW CH 80-S25C, 25A	Nos.	12	12					Foc
9999	B-11/4151	HALF COUPLING SW CH 80-A105, 32A	Nos.	1	1					Foc
10000	B-11/4152	HALF COUPLING SW CH 80-A105, 40A	Nos.	2	2					Foc
10001	B-11/4153	HALF COUPLING SW CH 80-S25C, 40A	Nos.	3	3					Foc
10002	B-11/4154	HALF COUPLING SW CH 80-A105, 50A	Nos.	3	3					Foc
10003	B-11/4155	KAPS KA PT-A105, 20A	Nos.	3	3					Foc
10004	B-11/4156	KAPS KA PT-A105, 15A	Nos.	4	4					Foc
10005	B-11/4157	KAPS KA PT-SUS 321, 20A	Nos.	1	1					Foc
10006	B-11/4158	FULL COUPLING SW, CF 80-A105 15A.	Nos.	4	4					Foc
10007	B-11/4159	FULL COUPLING SW, CF 80-A105 20A.	Nos.	6	6					Foc
10008	B-11/4160	FULL COUPLING, CF 80-S25C 25A.	Nos.	2	2					Foc
10009	B-11/4161	FULL COUPLING, CF 80-WP22, 25A.	Nos.	2	2					Foc
10010	B-11/4162	FULL COUPLING, CF 80-A105, 25A.	Nos.	9	9					Foc
10011	B-11/4163	FULL COUPLING, CF 160-WP22, 25A.	Nos.	3	3					Foc
10012	B-11/4166	FULL COUPLING, CF 160-WP22, 50A.	Nos.	2	2					Foc
10013	B-11/4167	REDUCER SW-RC 80 -A105 15X10A.	Nos.	2	2					Foc
10014	B-11/4168	REDUCER SW-RC 80 -A105 15X05A.	Nos.	1	1					Foc
10015	B-11/4169	REDUCER SW-RC 80 -A105 20X15A.	Nos.	1	1					Foc
10016	B-11/4170	REDUCER SW-RC 80 -A105 25X10A.	Nos.	1	1					Foc
10017	B-11/4171	REDUCER SW-RC 80 -A105 25X15A.	Nos.	1	1					Foc
10018	B-11/4172	REDUCER SW-RC 80 -A105 40X20A.	Nos.	1	1					Foc
10019	B-11/4173	REDUCER SW-RC 80 -A105 50X20A.	Nos.	1	1					Foc
10020	B-11/4174	REDUCER SW-RC 80 -A105 50X25A.	Nos.	1	1					Foc
10021	B-11/4176	SUM REDUCER TEE SW, TS80- A105, 15A	Nos.	4	4					Foc
10022	B-11/4180	SUM REDUCER TEE SW, TS80- A105, 40A	Nos.	2	2					Foc
10023	B-11/4183	SUM REDUCER TEE SW, TR80- A105, 40X25A	Nos.	1	1					Foc
10024	B-11/4185	SUM REDUCER TEE SW, TR40	Nos.	1	1					Foc

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ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
10025	B-11/4186	SUM REDUCER TEE SW, TR80-A105 50X25A	Nos.	1	1					Foc
10026	B-11/4188	ELBOW, SW 90EL-SW-80-A105-10A.	Nos.	20	20					Foc
10027	B-11/4191	ELBOW, 90EL-SW-80-A182-F321-15A.	Nos.	10	10					Foc
10028	B-11/4195	ELBOW, 90EL-SW-80- S25C, 20A	Nos.	1	1					Foc
10029	B-12/4210	ELBOW, 45EL- SW, 80, A105, 25A	Nos.	1	1					Foc
10030	B-12/4211	ELBOW, 45EL- SW, 80, A105, 40A	Nos.	1	1					Foc
10031	B-12/4220	FLANGE F, SRF, 300, S25C, 65A.	Nos.	1	1					Foc
10032	B-12/4230	GASKET (SUS) GS,GV,300, 150A.	Nos.	14	14					Foc
10033	B-12/4231	GASKET (SUS) GS,GV,300, 200A.	Nos.	8	8					Foc
10034	B-12/4233	GASKET (SUS) GS,GV,400, 150A.	Nos.	1	1					Foc
10035	B-12/4234	GASKET (SUS) GS,GV,400, 300A.	Nos.	8	8					Foc
10036	B-12/4235	GASKET (SUS) GS,GV,600, 300A.	Nos.	5	5					Foc
10037	B-12/4236	GASKET (SUS) GS,GV, 600	Nos.	5	5					Foc
10038	B-12/4238	GASKET (SUS) GS,GV, 600	Nos.	5	5					Foc
10039	B-12/4239	GASKET (SUS) GS,GV, 600	Nos.	3	3					Foc
10040	B-12/4240	GASKET (SUS) GS,GV, 600	Nos.	4	4					Foc
10041	B-12/4241	GASKET (SUS) Suction Water	Nos.	5	5					Foc
10042	B-12/4242	GASKET (SUS) GS,GV, 300	Nos.	77	77					Foc
10043	B-12/4244	GASKET (SUS) RJ 2500 15A	Nos.	25	25					Foc
10044	B-12/4245	GASKET (SUS) RJ 2500 50A	Nos.	12	12					Foc
10045	B-12/4246	GASKET (SUS) RJ 2500 125A	Nos.	9	9					Foc
10046	B-12/4249	GASKET ASBASTOS GS,150 RF, 15A.	Nos.	100	100					Foc
10047	B-12/4250	GASKET GS,150 RF, 20A.	Nos.	129	129					Foc
10048	B-12/4251	GASKET GS,150 RF, 25A.	Nos.	230	230					Foc
10049	B-12/4252	GASKET GS,150 RF, 40A.	Nos.	147	147					Foc
10050	B-12/4253	GASKET GS,150 RF, 50A.	Nos.	87	87					Foc
10051	B-12/4254	GASKET GS,150 RF, 65A.	Nos.	48	48					Foc
10052	B-12/4256	GASKET GS,150 , 80A.	Nos.	143	143					Foc
10053	B-12/4256	GASKET GS,150 , RF 100A.	Nos.	47	47					Foc
10054	B-12/4257	GASKET GS,150 , 125A.	Nos.	53	53					Foc
10055	B-12/4258	GASKET GS,150 , RF 150A.	Nos.	100	100					Foc
10056	B-12/4259	GASKET GS,150 , RF 200A.	Nos.	42	42					Foc

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10057	B-12/4260	GASKET GS,150 , RF 250A.	Nos.	29	29					Foc
10058	B-12/4261	GASKET GS,150 , RF 300A.	Nos.	9	9					Foc
10059	B-12/4263	GASKET GS,150 , 500A.	Nos.	5	5					Foc
10060	B-12/4264	GASKET GS,150 , RF OD, 546/1D,455.	Nos.	2	2					Foc
10061	B-12/4268	GASKET GS,150 , FF 500A	Nos.	10	10					Foc
10062	B-12/4269	GASKET GS, FF 400A	Nos.	6	6					Foc
10063	B-12/4270	GASKET GS,150 , FF 350A	Nos.	10	10					Foc
10064	B-12/4271	GASKET GS,150 , FF 250A	Nos.	1	1					Foc
10065	B-12/4272	GASKET GS,150 , FF 200A	Nos.	2	2					Foc
10066	B-12/4273	GASKET GS,150 , FF 150A	Nos.	8	8					Foc
10067	B-12/4274	GASKET GS,150 , FF 125A	Nos.	8	8					Foc
10068	B-12/4275	GASKET GS,150 , FF 65A	Nos.	3	3					Foc
10069	B-12/4276	GASKET GS,150 , FF 50A	Nos.	11	11					Foc
10070	B-12/4278	GASKET GS,150 , FF 20A	Nos.	7	7					Foc
10071	B-12/4279	GASKET GS,150 , FF OD 496/ID 368	Nos.	4	4					Foc
10072	B-12/4281	GUIDE BEARING GASKET A, H, 150A.	Nos.	4	4					Foc
10073	B-12/4282	Pulley	Nos.	4	4					Foc
10074	B-12/4283	Shakel	Nos.	6	6					Foc
10075	B-12/4284	THERMOMETER GAUGE (ASSORTED)	Nos.	6	6					Foc
10076	B-12/4285	PRESSURE GAUGE (ASSORTED)	Nos.	4	4					Foc
10077	B-12/4287	MENOMETER MATERIAL PVC PIPE	Roll	16	16					Foc
10078	B-12/4288	WIRE MESH	Roll	4	4					Foc
10079	B-12/4290	CALCIUM SALICATE	Pkt	1	1					Foc
10080	B-12/4293	HERME SEAL.	Can	4	4					Foc
10081	B-12/4295	FILTER FOR BURNER INLET LINE.	Nos.	6	6					Foc
10082	B-12/429	FILTER (HSD)	Nos.	4	4					Foc
10083	B-12/4297	PULLEY	Nos.	2	2					Foc
10084	B-12/4299	COPPER TUBE (ASSORTED)	Roll	4	4					Foc
10085	B-12/4300	SPENDLE SEAL GASKET PACKING 25A, PV-27-1.	Set	1	1					Foc
10086	B-12/4304	PRESSURE GAUGE SYPHOUS DIFFERENT	Nos.	11	11					Foc
10087	B-12/4305	Boiler Thermal Expenshion Measuring Tool	Set	5	5					Foc
10088	B-12/4306	Expenshion Measuring Rods	Nos.	11	11					Foc

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10089	B-12/4307	Lamp For Obsorvation , 220/240/200w	Nos.	2	2					Foc
10090	B-12/4308	Gasket For Osorvation Hight	Nos.	4	4					Foc
10091	B-12/4309	O, Ring 190A	Nos.	8	8					Foc
10092	B-12/4310	O, Ring 110A	Nos.	4	4					Foc
10093	B-12/4311	Flaxible Graphite Packing	Nos.	7	7					Foc
10094	B-12/4312	Sight Flam For Boiler Inspection Door	Nos.	2	2					Foc
10095	B-12/4313	Hose Boiler Pipe Hole Glass	Nos.	9	9					Foc
10096	B-12/4314	H,B, Safory v/v Gage	Nos.	2	2					Foc
10097	B-12/4315	H,B, v/v Tag	Nos.	50	50					Foc
10098	B-12/4317	Electric Wire	Mtr	150	150					Foc
10099	B-12/4318	Ring Packing Graphet 13mm	Nos.	130	130					Foc
10100	B-12/4319	Ring Packing Graphet 60mm	Nos.	32	32					Foc
10101	B-12/4320	Gasket Graphet 40*11	Nos.	80	80					Foc
10102	B-12/4321	Sleave	Nos.	10	10					Foc
10103	B-12/4322	Packing A&B,F,F 150mm	Nos.	216	216					Foc
10104	B-12/4323	High Temp Sealing Compound	Nos.	3	3					Foc
10105	B-12/4325	Center fugal Pump 15hp (Used) With Moloz	Nos.	1	1					Foc
10106	B-12/4329	V/V Sleave Cover different Size (Glass tube) (Assorted)	Nos.	100	100					Foc
10107	B-12/4331	Half Coupling	Nos.	2	2					Foc
10108	B-12/4332	Guide Bearing "O" Ring G,A,H 160mm	Nos.	2	2					Foc
10109	B-12/4333	Suppart Bearing "O" Ring G,A,H 145mm	Nos.	1	1					Foc
10110	B-12/4334	"O" Ring 340 mm	Nos.	1	1					Foc
10111	B-12/4336	"O" Ring 290 mm	Nos.	2	2					Foc
10112	B-12/4337	"O" Ring 180 mm	Nos.	1	1					Foc
10113	B-12/4339	"O" Ring 85 mm	Nos.	2	2					Foc
10114	B-12/4340	"O" Ring 65 mm	Nos.	2	2					Foc
10115	B-12/4342	FDF, Gear Coupling "O" Ring	Nos.	3	3					Foc
10116	B-12/4343	Y,I,A,C Ring	Nos.	7	7					Foc
10117	B-12/4345	Y,I,A,C "O" Ring 60 A	Nos.	15	15					Foc
10118	B-12/4346	ORIFICE 50*150	Nos.	1	1					Foc
10119	B-12/4347	ORIFICE FE 24.	Nos.	1	1					Foc
10120	B-12/4348	REPTURE DISC N,2 LIME	Nos.	3	3					Foc

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10121	B-12/4349	PIPE DISC (I) 8A-10A	Pkt	1	1					Foc
10122	B-12/4350	PIPE DISC (II) 25A-32A	Pkt	8	8					Foc
10123	B-12/4351	PIPE DISC (III) 15A-20A	Pkt	6	6					Foc
10124	B-12/4353	VALVE SPENDLE, 55mm	Nos.	1	1					Foc
10125	B-12/4354	PACKING t5.6X34	Set	3	3					Foc
10126	B-12/4355	PACKING t4.8X26	Set	3	3					Foc
10127	B-12/4356	PACKING t4.0X 20	Nos.	3	3					Foc
10128	B-12/4358	GASKET t 4.8X 183	Nos.	3	3					Foc
10129	B-12/4359	GASKET t 4.8X 110	Nos.	3	3					Foc
10130	B-12/4360	GASKET t 4.8X 89	Nos.	3	3					Foc
10131	B-12/4361	GASKET t 4.8X 49	Nos.	3	3					Foc
10132	B-12/4362	CAMP OIL SEAL 58mm	Nos.	3	3					Foc
10133	B-12/4363	GASKET , FF as B	Nos.	2	2					Foc
10134	B-12/4364	GAH OIL FILTER GASKET 10A	Nos.	4	4					Foc
10135	B-12/4365	SUPPLY BEARING OIL COOLER ZN ROD SACRIFIER.	Nos.	1	1					Foc
10136	B-12/4366	SIDE PACKING FOR R.O PUMP RECIEVING	Nos.	6	6					Foc
10137	B-12/4367	SIDE PACKING FOR R.O TRANSFER PUMP	Nos.	4	4					Foc
10138	B-12/4368	GLAND PACKING FOR GATE VALVE 50mm.	Set	1	1					Foc
10139	B-12/4369	GLAND PACKING FOR WSE STOP V/V 25mm	Set	4	4					Foc
10140	B-12/4370	GASKET FOR GLOBE V/V 25mm.	Nos.	1	1					Foc
10141	B-12/4372	GLAND PACKING FOR GATE VALVE 15mm.	Set	1	1					Foc
10142	B-12/4373	GLAND PACKING FOR GATE VALVE 40mm.	Set	1	1					Foc
10143	B-12/4374	GASKET FOR NEEDLE V/V 20mm.	Set	1	1					Foc
10144	B-12/4375	GAUGE GLASS 34WX17HX400L	Nos.	8	8					Foc
10145	B-12/4376	GAUGE GLASS 34WX17HX320L	Nos.	5	5					Foc
10146	B-12/4377	HIGH PRESSURE GAUGE GLASS LG-24	Nos.	2	2					Foc
10147	B-12/4378	HIGH PRESSURE GAUGE GLASS LG-29-2	Nos.	1	1					Foc
10148	B-12/4379	HIGH PRESSURE GAUGE GLASS LG-1303	Nos.	5	5					Foc
10149	B-12/4381	DIC PENETRATE TEST SPRAY CLEANER.	Nos.	21	21					Foc
10150	B-12/4383	DIC PENETRATE DECULOPER.	Nos.	1	1					Foc
10151	B-12/4385	MECHANICAL SEAL FW 043.	Nos.	2	2					Foc

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10152	B-12/4387	RATCHET 20mm.	Nos.	1	1					Foc
10153	B-12/4389	PRESSURE GAUGE CONNECTOR	Nos.	9	9					Foc
10154	B-12/4390	PILATE TUBE.	Nos.	1	1					Foc
10155	B-12/4391	REVOLVING WARNING LIGHT	Nos.	9	9					Foc
10156	B-12/4392	WELDING TEST PIECE 40	Nos.	67	67					Foc
10157	B-12/4393	WELDING TEST PIECE 120	Nos.	4	4					Foc
10158	B-12/4394	ELECTRIC SIREN	Nos.	1	1					Foc
10159	B-12/4395	OIL BURNER IGNITOR.	Nos.	3	3					Foc
10160	B-12/4396	STEM TRAP SCREEN	Nos.	35	35					Foc
10161	B-12/4397	ASPHALT MASTIC 20 KG	TIN	119	119					Foc
10162	B-12/4398	V/V CHART CAURIER "O" RING 2nd DELIVERY SIZE 129,4X135,6	Nos.	5	5					Foc
10163	B-12/4399	PACKING 2nd SUCTION SIZE 57X50X2t	Nos.	12	12					Foc
10164	B-13/4400	PACKING UNLOADING CYLINDER 78X61X1t (1st SUCTION)	Nos.	4	4					Foc
10165	B-13/4401	V/V CHEST COVER PACKING 244X231XE	Nos.	8	8					Foc
10166	B-13/4402	SOOT BLOWER RETRACTING TOOL	Nos.	1	1					Foc
10167	B-13/4405	PHOSPHERIC ACID CAN	Nos.	39	39					Foc
10168	B-13/4406	820 GRANT CEMENT 35 KG CAN	Can	14	14					Foc
10169	B-13/4407	REFRACTORY DRUM, 350 KG	Drum	1	1					Foc
10170	B-13/4408	STUD 1610 X 20	Nos.	150	150					Foc
10171	B-13/4409	STUD 1310 X 20	Nos.	20	20					Foc
10172	B-13/4410	ANCHOR BOLT	Nos.	15	15					Foc
10173	B-13/4411	PLATE 250X100X10	Nos.	106	106					Foc
10174	B-13/4412	PLATE 200X90X10	Nos.	57	57					Foc
10175	B-13/4413	PLATE 100X80X10	Nos.	72	72					Foc
10176	B-13/4414	U-SHAPE PLATE 10T	Nos.	78	78					Foc
10177	B-13/4415	SLIDING HOLE PLATE L SHAPE	Nos.	125	125					Foc
10178	B-13/4416	SLIDING HOLE PLATE L SHAPE	Nos.	26	26					Foc
10179	B-13/4417	LIFTING PLATE 10T	Nos.	17	17					Foc
10180	B-13/4418	HANGER ROD SPRING,	Nos.	3	3					Foc
10181	B-13/4419	FLANGE, 1D 355 100T	Nos.	2	2					Foc
10182	B-13/4426	ECO FEN TUBE 3A 210GR,SIZE=150.8X4.9X3.6	Nos.	2	2					Foc

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10183	B-13/4427	ECO BOX TUBE SIZE=50.8X4.9	Nos.	2	2					Foc
10184	B-13/4428	PIPE AND TUBE SE S/H, SIZE=57.15X5.4	Nos.	2	2					Foc
10185	B-13/4429	PIPE AND TUBE SE S/H, SIZE=57.15X5.7	Nos.	1	1					Foc
10186	B-13/4430	PIPE AND TUBE SE S/H, SIZE=57.15X8.8	Nos.	1	1					Foc
10187	B-13/4431	PIPE AND TUBE SE S/H, SIZE=57.15X6.2	Nos.	2	2					Foc
10188	B-13/4432	PIPE AND TUBE PRI / S/H (SA-210GR-A1) SIZE=57.15X5.4	Nos.	1	1					Foc
10189	B-13/4433	PIPE AND TUBE S/H(SA-210 GRA-1) SIZE=57.15X5.7	Nos.	2	2					Foc
10190	B-13/4434	PIPE AND TUBE S/H(SA-201GR-T11) SIZE=57.15X5.6	Nos.	2	2					Foc
10191	B-13/4435	PIPE AND TUBE PRI S/H SIZE=57.15X5.6	Nos.	1	1					Foc
10192	B-13/4436	PIPE AND TUBE FINAL S/H SIZE=50.8X5.3	Nos.	1	1					Foc
10193	B-13/4437	PIPE AND TUBE FINAL S/H SIZE=50.8X5.7	Nos.	1	1					Foc
10194	B-13/4438	PIPE AND TUBE FINAL S/H SIZE=50.8X5.9	Nos.	1	1					Foc
10195	B-13/4439	PIPE AND TUBE FINAL S/H SIZE=50.8X10.9	Nos.	1	1					Foc
10196	B-13/4441	PIPE AND TUBE PRI R/H SIZE= 76.2X5.4	Nos.	2	2					Foc
10197	B-13/4442	PIPE AND TUBE PRI R/H SIZE= 76.2X7.7	Nos.	2	2					Foc
10198	B-13/4443	PIPE AND TUBE PRI R/H SIZE= 76.2X5.4	Nos.	3	3					Foc
10199	B-13/4444	PIPE AND TUBE PRI R/H SIZE= 76.2X7.7	FT	16	16					Foc
10200	B-13/4445	PIPE AND TUBE PRI R/H SIZE= 76.2X5.4	Nos.	2	2					Foc
10201	B-13/4446	PIPE AND TUBE PRI R/H SIZE= 76.2X7.7	Nos.	1	1					Foc
10202	B-13/4447	PIPE AND TUBE PRI R/H SIZE= 69.85X4.9	Nos.	1	1					Foc
10203	B-13/4448	PIPE AND TUBE FINAL R/H SIZE= 57.15X4.0	Nos.	1	1					Foc
10204	B-13/4449	PIPE AND TUBE FINAL R/H SIZE= 69.85X4.9	Nos.	2	2					Foc
10205	B-13/4450	PIPE AND TUBE FINAL R/H SIZE= 69.85X7.0	Nos.	1	1					Foc
10206	B-13/4451	PIPE AND TUBE FINAL R/H SIZE= 69.85X4.5	Nos.	1	1					Foc
10207	B-13/4452	PIPE AND TUBE FINAL R/H SIZE= 57.15X4.0	Nos.	1	1					Foc
10208	B-13/4454	PIPE AND TUBE SA 210GN-A-1, SIZE= 69.85X7.2	Nos.	1	1					Foc
10209	B-13/4455	PIPE AND TUBE SA 210GN-A-1, SIZE= 69.85X6.7	Nos.	1	1					Foc
10210	B-13/4456	CAN WALL TUBE, SIZE= 69.85X7.5	Nos.	2	2					Foc
10211	B-13/4457	CAN WALL TUBE, SA 210 GN A1, SIZE= 76.2X7.2	Nos.	2	2					Foc
10212	B-13/4458	CAN WALL TUBE, FOR A1 SIZE= 69.85X6.6	Nos.	4	4					Foc
10213	B-13/4459	CAN WALL TUBE, SA 210 GN A1, SIZE= 69.85X6.7	Nos.	2	2					Foc
10214	B-13/4460	CAN WALL TUBE, SA 210 GN A1, SIZE= 76.2X7.3	Nos.	2	2					Foc

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10215	B-13/4461	CAN WALL TUBE, SA 209 GN A1, SIZE= 69.85X7.1	Nos.	2	2					Foc
10216	B-13/4462	CAN WALL , SA 210 GN A1, SIZE= 69.85X7.1	Nos.	2	2					Foc
10217	B-13/4463	FEEDER RELESE TUBE, SA 210 GNA1, SIZE= 127X12	Nos.	2	2					Foc
10218	B-13/4464	ECU OUTLET PIPE,SA106 GN C, SIZE= 219.1X20.7	Nos.	1	1					Foc
10219	B-13/4465	GRAS OVER PIPE, SA 106 GNC SIZE= 32.39X39.	Nos.	1	1					Foc
10220	B-13/4466	GRAS OVER PIPE, SA 335 GNC SIZE= 32.39X33.	Nos.	1	1					Foc
10221	B-13/4467	GRAS OVER PIPE, SA 335 GNC SIZE= 355X47	Nos.	2	2					Foc
10222	B-13/4468	DOWN COMMERCE SA 106GNC 508X50.	Nos.	2	2					Foc
10223	B-13/4469	DOWN COMMERCE SA 106GNC 508X46	Nos.	1	1					Foc
10224	B-13/4470	PRIMARY S. H TUBE, 57.15X T.5. L,11200L, E0092/A04M-00	Nos.	5	5					Foc
10225	B-13/4471	TUBE, 50.8X4.9- 3628 TL E0092-003, A03M-001	Nos.	49	49					Foc
10226	B-13/4472	TUBE, 50.8X T6.3-24.L-E0092-003, A03M-002	Nos.	5	5					Foc
10227	B-13/4473	TUBE, 50.8X T4.9-240.L-E0092-003, A03M-003	Nos.	46	46					Foc
10228	B-13/4507	COLOUR CRT, A22 R-001	Nos.	2	2					Foc
10229	B-13/4508	COLOUR CRT, A22 R-002	Nos.	8	8					Foc
10230	B-13/4510	COLOUR CAMERA, A22 R-004	Nos.	1	1					Foc
10231	B-13/4511	LENSE TUBE., A22 R-005	Nos.	1	1					Foc
10232	B-13/4513	FUSE, A22 R-007	Nos.	6	6					Foc
10233	B-13/4514	FUSE, A22 R-008	Nos.	6	6					Foc
10234	B-13/4515	FUSE, A22 R-009	Nos.	6	6					Foc
10235	B-13/4516	Long RETRACTABLE, E0092-021/A10M-001	Nos.	1	1					Foc
10236	B-13/4517	HALF RETRACTABLE, A10M-002	Nos.	1	1					Foc
10237	B-13/4518	LENSE TUBE FOR RETRACTABLE, A10M-003	Nos.	2	2					Foc
10238	B-13/4519	HEAD VALVE, A10M-006	Nos.	1	1					Foc
10239	B-13/4520	TRAVELLING CARRAGE, A10M-005	Nos.	2	2					Foc
10240	B-13/4521	RING PACKING FOR HEAD VALVE A10M-006	Nos.	72	72					Foc
10241	B-13/4522	GLAND PACKING FOR TRAVELLING CARRAGE, A10M-007	Nos.	36	36					Foc
10242	B-13/4523	LIMIT SWITCH, A10M-008	Nos.	3	3					Foc
10243	B-13/4526	FUSE ELEMENT, , A10M-011	Nos.	6	6					Foc
10244	B-13/4527	TOGGLE SWITCH, , A10M-012	Nos.	8	8					Foc
10245	B-13/4528	TOGGLE SWITCH, , A10M-013	Nos.	1	1					Foc
10246	B-13/4529	INDICATION PUSH BUTTON SWITCH, A10M-014	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
10247	B-13/4530	STOPPING SWITCH, A10M-015	Nos.	1	1					Foc
10248	B-13/4531	IMPELLAR AND SHAFT, A13R-001	Set	1	1					Foc
10249	B-13/4532	FLEXIABLE COUPLING, A13R-002	Set	1	1					Foc
10250	B-13/4533	O-RING FOR SHAFT COUPLING, A13R-003	Nos.	4	4					Foc
10251	B-13/4535	O-RING FOR SHAFT COUPLING, A13R-005	Nos.	4	4					Foc
10252	B-13/4536	SHAFT SEAL PACKING, A13R-006	Nos.	40	40					Foc
10253	B-13/4537	COUPLING ELEMENT, A14R-001	Nos.	10	10					Foc
10254	B-13/4538	A BUSH FOR COUPLING, A14R-002	Nos.	10	10					Foc
10255	B-13/4539	B SHAFT SEAL PACKING, A14R-003	Nos.	37	37					Foc
10256	B-13/4540	SHAFT SEAL PACKING, A17R-001	Nos.	20	20					Foc
10257	B-13/4541	BEARING FOR FAN, A13M-001	Nos.	2	2					Foc
10258	B-13/4542	BEARING FOR FAN, A14M-001	Nos.	2	2					Foc
10259	B-13/4543	BEARING FOR FAN, A14M-002	Nos.	1	1					Foc
10260	B-13/4544	BEARING FOR FAN, A14M-003	Nos.	1	1					Foc
10261	B-13/4545	BEARING FOR FAN, A14M-004	Nos.	1	1					Foc
10262	B-13/4546	BEARING FOR FAN, A14M-005	Nos.	1	1					Foc
10263	B-13/4547	BEARING FOR FAN, A14M-006	Nos.	2	2					Foc
10264	B-13/4548	BEARING FOR FAN, A14M-007	Nos.	2	2					Foc
10265	B-13/4552	A Bush For Coupling E0092-013-A-16-M004	Nos.	8	8					Foc
10266	B-13/4553	GLASS FOR FLOW INDICATOR SWITCH, A19M-3388	Nos.	2	2					Foc
10267	B-13/4554	GLASS FOR FLOW INDICATOR SWITCH, A19M-3389	Nos.	4	4					Foc
10268	B-13/4555	CONTROLE DRAIN AIR LOCK VALVE, A20-M-167	Nos.	1	1					Foc
10269	B-13/4556	CONTROLE DRAIN PISTON TRANSISTER, A20M-168	Nos.	1	1					Foc
10270	B-13/4557	CONTROLE DRAIN PISTON TRANSISTER, A20M-169	Nos.	1	1					Foc
10271	B-13/4558	CONTROLE DRUM COPPER RING, A20M-170	Nos.	1	1					Foc
10272	B-13/4559	CONTROLE DRUM ROLL PACKING, A20M-171	Nos.	1	1					Foc
10273	B-13/4560	CONTROLE DRUM PACKING, A20M-172	Nos.	1	1					Foc
10274	B-13/4561	CYLINDER TUBE GASKET, A20M-173	Nos.	2	2					Foc
10275	B-13/4562	C/ DRAIN RETAINER GASKET, A20M-174	Nos.	2	2					Foc
10276	B-13/4563	CONTROL DRAIN VALVE PACKING, A20M-175	Nos.	1	1					Foc
10277	B-13/4564	CONTROL DRAIN POSITIONER , A20M-176	Nos.	1	1					Foc
10278	B-13/4565	CONTROL DRAIN AIR RELIEF VALVE , A20M-177	Nos.	1	1					Foc

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10279	B-13/4566	CONTROL DRAIN AUTO CHANGER VALVE , A20M-178	Nos.	1	1					Foc
10280	B-13/4570	COMPLETE SET OF AUTOMIZER FOR IGNITOR, A09M-011	Nos.	5	5					Foc
10281	B-13/4572	GRAND PACKING FOR SPRAYER, A09M-005	Nos.	60	60					Foc
10282	B-13/4573	GRAND PACKING FOR SPRAYER, A09M-006.	Nos.	360	360					Foc
10283	B-13/4574	FLEXIABLE TUBE, A09M-007	Nos.	11	11					Foc
10284	B-13/4575	FLEXIABLE TUBE, A09M-008	Nos.	11	11					Foc
10285	B-13/4576	FLEXIABLE TUBE, A09M-009	Nos.	4	4					Foc
10286	B-13/4579	Spark Plug A09-M-014	Nos.	24	24					Foc
10287	B-13/4580	PILOT BOX IGNITOR, A09M-015	Nos.	5	5					Foc
10288	B-13/4581	PACKING FOR SPRAYER, A09M-017.	Nos.	90	90					Foc
10289	B-13/4582	PACKING FOR SPRAYER, A09M-018.	Nos.	90	90					Foc
10290	B-13/4586	FLEXIABLE HOSE FOR MAIN BURNER, A09R-011	Nos.	23	23					Foc
10291	B-13/4587	FLEXIABLE HOSE FOR MAIN BURNER, A09R-012	Nos.	1	1					Foc
10292	B-13/4588	FLEXIABLE HOSE FOR IGNITOR, A09R-013	Nos.	1	1					Foc
10293	B-13/4589	FLEXIABLE HOSE FOR IGNITOR, A09R-014	Nos.	1	1					Foc
10294	B-13/4590	CARRIER PACKING, A09R-018	Nos.	54	54					Foc
10295	B-13/4591	GLAND PACKING FOR SPRAYER, A09R-019	Nos.	216	216					Foc
10296	B-13/4592	CAP NUT, A09R-020	Nos.	6	6					Foc
10297	B-13/4593	SWIRLER, A09R-021	Nos.	3	3					Foc
10298	B-13/4594	PACKING FOR SPRAYER, A09R-022	Nos.	54	54					Foc
10299	B-13/4595	PACKING FOR SPRAYER, A09R-023	Nos.	54	54					Foc
10300	B-13/4599	SPEED CONTROLLER, A09R-027	Nos.	5	5					Foc
10301	B-14/4600	LIMIT SWITCH, A20M-217	Nos.	1	1					Foc
10302	B-14/4618	HOT END ROTOR PART SEAL, E0092-007-A07-M-018	Nos.	8	8					Foc
10303	B-14/4619	SEAT BOLT AND WASHER, E8092-007-A07-M-019	Nos.	48	48					Foc
10304	B-14/4636	COLD END OUTER SEAL TAP, (TUB) E0092-007-A07-M-036	Nos.	24	24					Foc
10305	B-14/4637	COLD END OUTER SEAL TAB, E0092-007-A07-M-037	Nos.	12	12					Foc
10306	B-14/4638	COLD END OUTER SEAL TAB, E0092-007-A07-M-038	Nos.	12	12					Foc
10307	B-14/4639	HOT END OUTER SEAL,TAB E0092-007-A07-M-039	Nos.	24	24					Foc

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10308	B-14/4640	HOT END OUTER SEAL,TAB E0092-007-A07-M-040	Nos.	12	12					Foc
10309	B-14/4641	HOT END OUTER SEAL,TAB E0092-007-A07-M-041	Nos.	12	12					Foc
10310	B-14/4645	COLD END BY PASS SEAL, E0092-007, A07-M046	Nos.	26	26					Foc
10311	B-14/4646	HOLDING STRIP E0092-007-A07-M047	Nos.	31	31					Foc
10312	B-14/4647	HOT END BY PASS SEAL, E0092-007, A07-M048	Nos.	96	96					Foc
10313	B-14/4660	DIAPHRAGM FOR CONTROL VALVE, E0092-018, M010	Nos.	1	1					Foc
10314	B-14/4661	DIAPHRAGM FOR CONTROL VALVE, E0092-018, M011	Nos.	1	1					Foc
10315	B-14/4662	DIAPHRAGM FOR CONTROL VALVE, E0092-018,A-18 M012	Nos.	1	1					Foc
10316	B-14/4663	DIAPHRAGM FOR CONTROL VALVE, E0092-018,A-18 M013	Nos.	1	1					Foc
10317	B-14/4664	SPRING FOR Relif Valve , E0092-018A 18-M-014	Nos.	1	1					Foc
10318	B-14/4674	Colour Screen For Level gauge E 0092-002 A-02 M-022	Nos.	4	4					Foc
10319	B-14/4675	Colour Screen For Level gauge E 0092-002 A-02 M-023	Nos.	4	4					Foc
10320	B-14/4677	GLAND PACKING , E0092,012 A-012,M-004	Nos.	211	211					Foc
10321	B-14/4678	GLAND PACKING , E0092,012 A-012,M-005	Nos.	4	4					Foc
10322	B-14/4679	Main Hole GASKET , E0092, 011 A-11 M-004.	Nos.	2	2					Foc
10323	B-14/4680	Valve PACKING , E0092,002 A-02 M-025	Nos.	2	2					Foc
10324	B-14/4684	Gasket For Gate Valve , E0092,019 A-A 19 ,M-1001	Nos.	1	1					Foc
10325	B-14/4686	Gasket For Check Valve , E0092,019 A-A 19 ,M-1003	Nos.	1	1					Foc
10326	B-14/4687	Gasket For Check Valve , E0092,019A, AA ,M-1004	Nos.	1	1					Foc
10327	B-14/4688	Gasket For Check Valve , E0092,019A, A 19, M-1005	Nos.	1	1					Foc
10328	B-14/4689	Gasket For Check Valve , E0092,019A, A 19, M-1006	Nos.	1	1					Foc
10329	B-14/4690	Gasket For Globe Valve , E0092,019A, A 19, M-1007	Nos.	1	1					Foc
10330	B-14/4693	GLAND PACKING For Gate Valve , E0092,019A,19,M,1010	Nos.	1	1					Foc
10331	B-14/4694	Gasket For Gate Valve , E0092,019 A-19 ,M-1011	Nos.	1	1					Foc
10332	B-14/4695	GLAND PACKING For Gate Valve , E0092,019A,19,M,1012	Nos.	1	1					Foc
10333	B-14/4696	Gasket For Gate Valve , E0092,019A A-19 ,M-1013	Nos.	1	1					Foc
10334	B-14/4698	Gasket For Gate Valve , E0092,019A A-19 ,M-1015	Nos.	5	5					Foc
10335	B-14/4702	GASKET , E0092, 019A-A19, M,1019.	Nos.	1	1					Foc

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10336	B-14/4703	GLAND PACKING , E0092,019A A-19,M-1020	Nos.	1	1					Foc
10337	B-14/4708	GASKET , E0092, 019A-A19, M,1025.	Nos.	1	1					Foc
10338	B-14/4710	GASKET , E0092, 019A-A19, M,1027.	Nos.	1	1					Foc
10339	B-14/4714	GASKET , E0092, 019A-A19, M,1031.	Nos.	1	1					Foc
10340	B-14/4715	GLAND PACKING , E0092,019A A-19,M-1052	Nos.	1	1					Foc
10341	B-14/4716	GASKET , E0092, 019A-A19, M,1033.	Nos.	2	2					Foc
10342	B-14/4717	GASKET , E0092, 019A-A19, M,1034.	Nos.	3	3					Foc
10343	B-14/4718	GASKET , E0092, 019A-A19, M,1035.	Nos.	1	1					Foc
10344	B-14/4720	GASKET , E0092, 019A-A19, M,1037	Nos.	2	2					Foc
10345	B-14/4722	GASKET FOR GLOBE VALVE, E009-019A, A19, M, 1039	Nos.	1	1					Foc
10346	B-14/4725	GLAND PACKING , E0092,019A,A19,M,1042	Nos.	1	1					Foc
10347	B-14/4726	GASKET , E0092, 019A-A19, M,1043	Nos.	2	2					Foc
10348	B-14/4728	GASKET , E0092, 019A-A19, M,1045	Nos.	1	1					Foc
10349	B-14/4729	GLAND PACKING , E0092,019A,A19,M,1046	Nos.	1	1					Foc
10350	B-14/4730	GASKET , E0092, 019A-A19, M,1047	Nos.	1	1					Foc
10351	B-14/4732	GASKET , E0092, 019A-A19, M,1049	Nos.	3	3					Foc
10352	B-14/4733	GLAND PACKING , E0092,019A,A19,M,1050	Set	2	2					Foc
10353	B-14/4734	GASKET , E0092, 019A-A19, M,1051	Nos.	3	3					Foc
10354	B-14/4735	GLAND PACKING , E0092,019A,A19,M,1052	Nos.	3	3					Foc
10355	B-14/4736	GASKET , E0092, 019A-A19, M,1053	Nos.	2	2					Foc
10356	B-14/4740	GASKET , E0092, 019A-A19, M,1057	Nos.	5	5					Foc
10357	B-14/4741	GLAND PACKING , E0092,019A,A19,M,1058	Nos.	5	5					Foc
10358	B-14/4742	GASKET , E0092, 019A-A19, M,1059	Nos.	2	2					Foc
10359	B-14/4744	GASKET , E0092, 019A-A19, M,1061	Nos.	6	6					Foc
10360	B-14/4746	GASKET , E0092, 019A-A19, M,1063	Nos.	4	4					Foc
10361	B-14/4747	GLAND PACKING , E0092,019A,A19,M,1064	Set	4	4					Foc
10362	B-14/4748	GASKET , E0092, 019A-A19, M,1065	Nos.	1	1					Foc
10363	B-14/4749	GLAND PACKING , E0092,019A,A19,M,1066	Nos.	3	3					Foc
10364	B-14/4750	GASKET , E0092, 019A-A19, M,1067	Nos.	3	3					Foc
10365	B-14/4752	GASKET , E0092, 019A-A19, M,1069	Nos.	2	2					Foc
10366	B-14/4754	GASKET , E0092, 019A-A19, M,1071	Nos.	3	3					Foc
10367	B-14/4755	GLAND PACKING , E0092,019A,A19,M,1072	Set	3	3					Foc

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10368	B-14/4756	GASKET , E0092, 019A-A19, M,1073	Nos.	2	2					Foc
10369	B-14/4758	GASKET , E0092, 019A-A19, M,1075	Nos.	1	1					Foc
10370	B-14/4759	GLAND PACKING , E0092,019A,A19,M,1076	Set	1	1					Foc
10371	B-14/4760	GASKET , E0092, 019A-A19, M,1077	Nos.	1	1					Foc
10372	B-14/4761	GASKET , E0092, 019A-A19, M,1078	Nos.	1	1					Foc
10373	B-14/4762	GASKET , E0092, 019A-A19, M,1079	Nos.	2	2					Foc
10374	B-14/4763	GASKET , E0092, 019A-A19, M,1080	Nos.	4	4					Foc
10375	B-14/4764	GASKET , E0092, 019A-A19, M,1081	Nos.	1	1					Foc
10376	B-14/4765	GASKET , E0092, 019A-A19, M,1082	Nos.	2	2					Foc
10377	B-14/4766	GASKET , E0092, 019A-A19, M,1083	Nos.	2	2					Foc
10378	B-14/4767	GASKET , E0092, 019A-A19, M,1084	Nos.	4	4					Foc
10379	B-14/4768	GASKET , E0092, 019A-A19, M,1085	Nos.	1	1					Foc
10380	B-14/4769	GASKET , E0092, 019A-A19, M,1086	Nos.	2	2					Foc
10381	B-14/4770	GASKET , E0092, 019A-A19, M,1087	Nos.	2	2					Foc
10382	B-14/4772	GASKET , E0092, 019A-A19, M,1089	Nos.	2	2					Foc
10383	B-14/4774	GASKET , E0092, 019A-A19, M,1091	Nos.	4	4					Foc
10384	B-14/4776	GASKET , E0092, 019A-A19, M,1093	Nos.	1	1					Foc
10385	B-14/4778	GASKET , E0092, 019A-A19, M,1095	Nos.	1	1					Foc
10386	B-14/4779	GLAND PACKING , E0092, 019A-A19, M,1096	Nos.	9	9					Foc
10387	B-14/4780	GLAND PACKING , E0092, 019A-A19, M,1188	Nos.	1	1					Foc
10388	B-14/4781	GASKET , E0092, 019A-A19, M,1189	Nos.	1	1					Foc
10389	B-14/4782	SEAT PACKING , E0092, 019A-A19, M,1190	Nos.	1	1					Foc
10390	B-14/4783	GLAND PACKING , E0092, 019A-A19, M,1191	Nos.	9	9					Foc
10391	B-14/4784	GLAND PACKING , E0092, 019A-A19, M,1192	Nos.	6	6					Foc
10392	B-14/4785	GASKET , E0092, 019A-A19, M,1193	Nos.	1	1					Foc
10393	B-14/4786	SEAT PACKING , E0092, 019A-A19, M,1194	Nos.	1	1					Foc
10394	B-14/4787	GLAND PACKING , E0092, 019A-A19, M,1195	Nos.	7	7					Foc
10395	B-14/4788	SEAT PACKING , E0092, 019A-A19, M,1196	Nos.	1	1					Foc
10396	B-14/4789	GLAND PACKING , E0092, 019A-A19, M,1197	Nos.	6	6					Foc
10397	B-14/4790	SEAT PACKING , E0092, 019A-A19, M,1198	Nos.	1	1					Foc
10398	B-14/4791	GLAND PACKING , E0092, 019A-A19, M,1199	Nos.	7	7					Foc
10399	B-14/4792	VALVE PACKING , E0092- 002, A02, M,026A	Set	19	19					Foc

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1	2	3	4	5	6	7	8	10	11	12
10400	B-14/4793	VALVE PACKING , E0092- 002, A02, M,026B	Nos.	10	10					Foc
10401	B-14/4794	VALVE PACKING , E0092- 002, A02, M,027A	Nos.	12	12					Foc
10402	B-14/4795	VALVE PACKING , E0092- 002, A02, M,027B	Nos.	12	12					Foc
10403	B-14/4796	VALVE PACKING , E0092- 002, A02, M,028	Nos.	24	24					Foc
10404	B-14/4797	VALVE PACKING , E0092- 002, A02, M,029	Nos.	8	8					Foc
10405	B-14/4800	VALVE PACKING , E0092- 002, A02, M,032	Nos.	4	4					Foc
10406	B-15/4801	VALVE PACKING , E0092- 002, A02, M,033	Nos.	2	2					Foc
10407	B-15/4802	VALVE PACKING , E0092- 002, A02, M,034A	Nos.	2	2					Foc
10408	B-15/4803	VALVE PACKING , E0092- 002, A02, M,034B	Nos.	2	2					Foc
10409	B-15/4808	DRAIN VALVE, E0092-006,A06, M, 009	Nos.	1	1					Foc
10410	B-15/4811	PACKING, E0092-006,A06, M, 012	Nos.	1	1					Foc
10411	B-15/4813	PACKING, E0092-006,A06, M, 013B	Nos.	1	1					Foc
10412	B-15/4815	PACKING, E0092-006,A06, M, 014B	Nos.	1	1					Foc
10413	B-15/4821	GLASS FOR FLOW, E0092-019C ,A19, M, 3405	Nos.	2	2					Foc
10414	B-15/4822	GASKET, E0092-019C,A19, M, 3406	Nos.	4	4					Foc
10415	B-15/4823	GAUGE GLASS, E0092-011,A11, M, 001	Nos.	2	2					Foc
10416	B-15/4825	GASKET, E0092-011,A11, M, 003	Nos.	2	2					Foc
10417	B-15/4831	BOLT AND NUT E0092, 002, A02, M007	Nos.	10	10					Foc
10418	B-15/4832	BOLT AND NUT E0092, 002, A02, M008	Nos.	2	2					Foc
10419	B-15/4833	TANGREED WASHER E0092, 002, A02, M009	Nos.	21	21					Foc
10420	B-15/4834	TANGREED WASHER E0092, 002, A02, M010	Nos.	10	10					Foc
10421	B-15/4835	U,BOLT & NUT E0092, 002, A02, M011	Nos.	3	3					Foc
10422	B-15/4836	U,BOLT & NUT E0092, 002, A02, M012	Nos.	1	1					Foc
10423	B-15/4837	GASKET FOR DEAR E0092, 001, A01, M001	Nos.	1	1					Foc
10424	B-15/4838	GASKET FOR WINDOW E0092, 001, A01, M002	Nos.	14	14					Foc
10425	B-15/4839	GASKET FOR WINDOW E0092, 001, A01, M003	Nos.	15	15					Foc
10426	B-15/4840	GASKET E0092, 001, A01, M004	Nos.	15	15					Foc
10427	B-15/4842	GASKET E0092, 001, A01, M007	Nos.	58	58					Foc
10428	B-15/4845	GASKET E0092, 019A, A19, M1200	Nos.	2	2					Foc
10429	B-15/4846	GLAND PACKING. E0092, 019, A19, M1201	Nos.	2	2					Foc
10430	B-15/4847	GASKET E0092, 019A, A19, M1202	Nos.	1	1					Foc
10431	B-15/4850	BELLOWS SEAL . E0092, 019B, A19, M2062	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
10432	B-15/4852	SHEET PACKING. E0092, 019A, A19, M1212	Nos.	3	3					Foc
10433	B-15/4857	SHEET PACKING. E0092, 019A, A19, M1219	Nos.	2	2					Foc
10434	B-15/4860	SHEET PACKING. E0092, 019A, A19, M1222	Nos.	1	1					Foc
10435	B-15/4863	SHEET PACKING. E0092, 019A, A19, M1225	Nos.	1	1					Foc
10436	B-15/4864	BUTTER FLY VALVE, E0092, 019B, A19, M2070	Nos.	2	2					Foc
10437	B-15/4865	BUTTER FLY VALVE, E0092, 019B, A19, M2071	Nos.	2	2					Foc
10438	B-15/4871	SLUD END, E0092, 019C, A19, M3317	Nos.	2	2					Foc
10439	B-15/4887	BOLT & NUT, E0092, 019C, A19, M3378	Nos.	36	36					Foc
10440	B-15/4890	BOLT & NUT, E0092, 019C, A19, M3381	Nos.	8	8					Foc
10441	B-15/4895	BOLT & NUT, E0092, 019C, A19, M3386	Nos.	8	8					Foc
10442	B-15/4897	GASKET, E0092, 019C, A19, M3319	Nos.	2	2					Foc
10443	B-15/4898	GASKET, E0092, 019C, A19, M3320	Nos.	2	2					Foc
10444	B-15/4899	GASKET, E0092, 019C, A19, M3321	Nos.	2	2					Foc
10445	B-15/4900	GASKET, E0092, 019C, A19, M3322	Nos.	2	2					Foc
10446	B-15/4901	GASKET, E0092, 019C, A19, M3323	Nos.	2	2					Foc
10447	B-15/4903	GASKET, E0092, 019C, A19, M3325	Set	2	2					Foc
10448	B-15/4904	GASKET, E0092, 019C, A19, M3326	Nos.	2	2					Foc
10449	B-15/4907	GASKET, E0092, 019C, A19, M3329	Nos.	2	2					Foc
10450	B-15/4909	GASKET, E0092, 019C, A19, M3332	Nos.	2	2					Foc
10451	B-15/4911	GASKET, E0092, 019C, A19, M3335	Nos.	2	2					Foc
10452	B-15/4912	GASKET, E0092, 019C, A19, M3336	Nos.	2	2					Foc
10453	B-15/4913	GASKET, E0092, 019C, A19, M3337	Nos.	2	2					Foc
10454	B-15/4914	GASKET, E0092, 019C, A19, M3338	Nos.	2	2					Foc
10455	B-15/4915	GASKET, E0092, 019C, A19, M3339	Nos.	2	2					Foc
10456	B-15/4916	GASKET, E0092, 019C, A19, M3340	Nos.	2	2					Foc
10457	B-15/4917	GASKET, E0092, 019C, A19, M3341	Nos.	2	2					Foc
10458	B-15/4918	GASKET, E0092, 019C, A19, M3342	Nos.	2	2					Foc
10459	B-15/4919	GASKET, E0092, 019C, A19, M3343	Nos.	2	2					Foc
10460	B-15/4920	GASKET, E0092, 019C, A19, M3344	Nos.	2	2					Foc
10461	B-15/4923	GASKET, E0092, 019C, A19, M3347	Nos.	2	2					Foc
10462	B-15/4924	GASKET, E0092, 019C, A19, M3349	Nos.	2	2					Foc
10463	B-15/4925	GASKET, E0092, 019C, A19, M3357	Nos.	2	2					Foc

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10464	B-15/4926	GASKET, E0092, 019C, A19, M3352	Nos.	2	2					Foc
10465	B-15/4927	GASKET, E0092, 019C, A19, M3353	Nos.	2	2					Foc
10466	B-15/4928	GASKET, E0092, 019C, A19, M3354	Nos.	2	2					Foc
10467	B-15/4930	GASKET, E0092, 019C, A19, M3356	Nos.	2	2					Foc
10468	B-15/4931	GASKET, E0092, 019C, A19, M3357	Nos.	1	1					Foc
10469	B-15/4932	GASKET, E0092, 019C, A19, M3358	Nos.	2	2					Foc
10470	B-15/4933	GASKET, E0092, 019C, A19, M3359	Nos.	2	2					Foc
10471	B-15/4934	ELBOW, E0092, 019C, A19, M3250	Nos.	2	2					Foc
10472	B-15/4935	ELBOW, E0092, 019C, A19, M3257	Nos.	2	2					Foc
10473	B-15/4936	ELBOW, E0092, 019C, A19, M3252	Nos.	2	2					Foc
10474	B-15/4937	ELBOW, E0092, 019C, A19, M3253	Nos.	2	2					Foc
10475	B-15/4940	TEE, E0092, 019C, A19, M3256	Nos.	2	2					Foc
10476	B-15/4942	TEE, E0092, 019C, A19, M3258	Nos.	2	2					Foc
10477	B-15/4943	TEE, E0092, 019C, A19, M3259	Nos.	2	2					Foc
10478	B-15/4944	TEE, E0092, 019C, A19, M3260	Nos.	2	2					Foc
10479	B-15/4945	TEE, E0092, 019C, A19, M3261	Nos.	2	2					Foc
10480	B-15/4946	TEE, E0092, 019C, A19, M3262	Nos.	2	2					Foc
10481	B-15/4947	UNION, E0092, 019C, A19, M3265	Nos.	2	2					Foc
10482	B-15/4949	UNION, E0092, 019C, A19, M3267	Nos.	1	1					Foc
10483	B-15/4950	UNION, E0092, 019C, A19, M3268	Nos.	2	2					Foc
10484	B-15/4951	CAP, E0092, 019C, A19, M3271	Nos.	2	2					Foc
10485	B-15/4952	CAP, E0092, 019C, A19, M3272	Nos.	2	2					Foc
10486	B-15/4953	CAP, E0092, 019C, A19, M3273	Nos.	2	2					Foc
10487	B-15/4959	FLANGE 'GASKET E0092-008, A08,M,003	Nos.	2	2					Foc
10488	B-15/4963	NOZZEL , E0092-007, A07 ,M,059	Nos.	28	28					Foc
10489	B-15/4964	NOZZEL , E0092-007, A07 ,M,060	Nos.	26	26					Foc
10490	B-15/4965	NOZZEL , E0092-007, A07 ,M,061	Nos.	8	8					Foc
10491	B-15/4966	Oil Seal E0092 - 007 - A 07 - M - 062	Nos.	4	4					Foc
10492	B-15/4967	PACKING, E0092 - 007 - A 07 - M - 063	Nos.	6	6					Foc
10493	B-15/4968	PACKING, E0092 - 007 - A 07 - M - 064	Nos.	2	2					Foc
10494	B-15/4969	Gasket , E0092 - 007 - A 07 - M - 065	Nos.	2	2					Foc
10495	B-15/4974	Bearing , E0092 - 007 - A 07 - M - 071	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
10496	B-15/4976	Valve dise , E0092 - 007 - A 10 - M - 016	Nos.	1	1					Foc
10497	B-15/4977	Valve spendle , E0092 - 007 - A 10 - M - 017	Set	1	1					Foc
10498	B-15/4979	O" RING, E0092 - 007 - A 10 - M - 019	Nos.	6	6					Foc
10499	B-15/4981	O" RING, E0092 - 007 - A 10 - M - 021	Nos.	41	41					Foc
10500	B-15/4983	Tube , E0092 - 031 - E 11 - M - 002	Nos.	2	2					Foc
10501	B-15/4984	Tube , E0092 - 031 - E 11 - M - 003	Nos.	2	2					Foc
10502	B-15/4985	Tube , E0092 - 031 - E 11 - M - 004	Nos.	2	2					Foc
10503	B-15/4986	Tube , E0092 - 031 - E 11 - M - 005	Nos.	2	2					Foc
10504	B-15/4987	Tube , E0092 - 031 - E 11 - M - 006	Nos.	2	2					Foc
10505	B-15/4988	Tube , E0092 - 031 - E 11 - M - 007	Nos.	1	1					Foc
10506	B-15/4989	Tube , E0092 - 031 - E 11 - M - 008	Nos.	1	1					Foc
10507	B-15/4990	Tube , E0092 - 031 - E 11 - M - 009	Nos.	1	1					Foc
10508	B-15/4991	Tube , E0092 - 031 - E 11 - M - 010	Nos.	1	1					Foc
10509	B-15/4992	Tube , E0092 - 031 - E 11 - M - 011	Nos.	1	1					Foc
10510	B-15/4993	GASKET, E0092 - 031 - E 11 - M - 012	Nos.	1	1					Foc
10511	B-15/4994	GASKET, E0092 - 031 - E 11 - M - 013	Nos.	1	1					Foc
10512	B-15/4995	GASKET, E0092 - 031 - E 11 - M - 001	Nos.	1	1					Foc
10513	B-15/4996	Gland Packing, E0092 - 033 - E 13 - M 002	Nos.	1	1					Foc
10514	B-15/4997	Gasket , E0092 - 033 - E 13 - M 003	Nos.	1	1					Foc
10515	B-15/4999	Gasket , E0092 - 033 - E 13 - M 005	Nos.	1	1					Foc
10516	B-15/5000	Gland Packing, E0092 - 033 - E 13 - M 006	Nos.	1	1					Foc
10517	B-16/5001	Gasket E 13 - M 007	Nos.	1	1					Foc
10518	B-16/5003	Gasket E 13 - M 009	Nos.	1	1					Foc
10519	B-16/5005	Gasket E 13 - M 0011	Nos.	1	1					Foc
10520	B-16/5009	Gasket E 13 - M 0015	Nos.	1	1					Foc
10521	B-16/5011	Gasket E 13 - M 017	Nos.	1	1					Foc
10522	B-16/5012	Gland Packing, E 13 - M 018	Nos.	1	1					Foc
10523	B-16/5013	Gasket E 13 - M 019	Nos.	1	1					Foc
10524	B-16/5015	Gasket E 13 - M 021	Nos.	1	1					Foc
10525	B-16/5016	Gasket E 13 - M 022	Nos.	2	2					Foc
10526	B-16/5017	Gasket E 13 - M 023	Nos.	1	1					Foc
10527	B-16/5018	Gasket E 13 - M 024	Nos.	2	2					Foc

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10528	B-16/5019	Gasket E 13 - M 025	Nos.	1	1					Foc
10529	B-16/5020	Gasket E 13 - M 026	Nos.	2	2					Foc
10530	B-16/5021	Gasket E 12 - M 008	Nos.	1	1					Foc
10531	B-16/5022	Packing E 12 M 009	Nos.	1	1					Foc
10532	B-16/5023	Gasket E 12 - M 010	Nos.	1	1					Foc
10533	B-16/5024	Packing E 12 M 011	Nos.	1	1					Foc
10534	B-16/5025	Gasket E 12 - M 012	Nos.	1	1					Foc
10535	B-16/5026	Gasket E 12 - M 013	Nos.	1	1					Foc
10536	B-16/5027	Gasket E 10 - M 004	Nos.	1	1					Foc
10537	B-16/5032	Gasket E 13 - M 027	Nos.	1	1					Foc
10538	B-16/5033	Gland Packing E 13 M - 028	Nos.	1	1					Foc
10539	B-16/5034	Gasket E 13 - M 029	Nos.	1	1					Foc
10540	B-16/5036	Gasket E 13 - M 031	Nos.	1	1					Foc
10541	B-16/5038	Gasket E 13 - M 033	Nos.	1	1					Foc
10542	B-16/5039	Gland Packing E 13 M - 034	Nos.	1	1					Foc
10543	B-16/5042	Gasket E 13 - M 037	Nos.	1	1					Foc
10544	B-16/5043	Gland Packing E 13 M - 038	Nos.	1	1					Foc
10545	B-16/5044	Gasket E 13 - M 039	Nos.	1	1					Foc
10546	B-16/5045	Gasket E 13 - M 040	Nos.	1	1					Foc
10547	B-16/5046	Gasket E 13 - M 041	Nos.	1	1					Foc
10548	B-16/5047	Gate Valve E 13 M - 045	Nos.	1	1					Foc
10549	B-16/5050	Gate Valve E 13 M - 048	Nos.	1	1					Foc
10550	B-16/5053	Gate Valve E 13 M - 051	Nos.	1	1					Foc
10551	B-16/5054	Gate Valve E 13 M - 052	Nos.	1	1					Foc
10552	B-16/5055	Gate Valve E 13 M - 053	Nos.	1	1					Foc
10553	B-16/5056	Gate Valve E 13 M - 054	Nos.	1	1					Foc
10554	B-16/5057	Check Valve E 13 M - 055	Nos.	1	1					Foc
10555	B-16/5058	Check Valve E 13 M - 056	Nos.	1	1					Foc
10556	B-16/5059	Check Valve E 13 M - 057	Nos.	1	1					Foc
10557	B-16/5066	Check Valve E 13 M - 064	Nos.	1	1					Foc
10558	B-16/5067	CHECK VALVE, E13 M065	Nos.	1	1					Foc
10559	B-16/5068	CHECK VALVE, E13 M066	Nos.	1	1					Foc

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10560	B-16/5070	O" RING, E10M012	Nos.	4	4					Foc
10561	B-16/5072	PACKING, E10M, 014	Nos.	16	16					Foc
10562	B-16/5073	O" RING, E12M004	Nos.	2	2					Foc
10563	B-16/5074	GASKET, E12M005	Nos.	2	2					Foc
10564	B-16/5075	PACKING, E12M, 006	Nos.	4	4					Foc
10565	B-16/5076	ELEMENT, E12M, 003	Nos.	1	1					Foc
10566	B-16/5078	PACKING, E10M, 002	Nos.	120	120					Foc
10567	B-16/5079	PACKING, E10M, 003	Nos.	120	120					Foc
10568	B-16/5081	TUBE, A18R001A.	Nos.	3	3					Foc
10569	B-16/5082	TUBE, A18R001B	Nos.	3	3					Foc
10570	B-16/5083	TUBE, A18R001C	Nos.	2	2					Foc
10571	B-16/5087	TUBE, A18R002A	Nos.	1	1					Foc
10572	B-16/5088	TUBE, A18R002B	Nos.	2	2					Foc
10573	B-16/5089	TUBE, A18R002C	Nos.	2	2					Foc
10574	B-16/5090	TUBE, A18R002D	Nos.	2	2					Foc
10575	B-16/5091	TUBE, A18R002E	Nos.	1	1					Foc
10576	B-16/5092	TUBE, A18R002F	Nos.	1	1					Foc
10577	B-16/5096	PLUG, S/8,FV20A, A23R 001	Nos.	1	1					Foc
10578	B-16/5097	PLUG, S/A6X4, FV20B, A23R 002	Nos.	1	1					Foc
10579	B-16/5098	PLUG, S/A3X2 2 1/2, FV26B, A23R 003	Nos.	1	1					Foc
10580	B-16/5099	PLUG, S/AFX25, PV25,LV,1303 A23R 004	Nos.	2	2					Foc
10581	B-16/5100	PLUG, S/A8, TV24A, TV24B A23R 005	Nos.	2	2					Foc
10582	B-16/5101	PLUG, S/A3, TV1032, A23R 006	Nos.	1	1					Foc
10583	B-16/5102	PLUG, S/A4, TV26, A23R 007	Nos.	1	1					Foc
10584	B-16/5103	PLUG, S/A3X2, TV76-1, A23R 008	Nos.	1	1					Foc
10585	B-16/5104	PLUG, S/A, TV76-2A-1 TV,76-2B-1, A23R 009	Nos.	2	2					Foc
10586	B-16/5105	PLUG, S/A, TV76-2A-2 TV,76-2B-2, A23R 010	Nos.	2	2					Foc
10587	B-16/5106	PLUG, S/A,2 TV77-, A23R 011	Nos.	1	1					Foc
10588	B-16/5107	PLUG, S/A, 5,TV95- A23R 012	Nos.	1	1					Foc
10589	B-16/5108	PLUG, S/A,3 PV 1032 A23R 013	Nos.	1	1					Foc
10590	B-16/5109	PLUG, S/A, 2X1 1/4" PX26, A23R 014	Nos.	1	1					Foc
10591	B-16/5110	PLUG, S/A,1, PV 27-1, A23R 015	Nos.	1	1					Foc

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
10592	B-16/5111	PLUG, S/A,2, PV 27-2, A23R 016	Nos.	1	1					Foc
10593	B-16/5112	PLUG, S/A,3, PV 28, A23R 017	Nos.	1	1					Foc
10594	B-16/5113	PLUG, S/A,8" PV 29, A23R 018	Nos.	1	1					Foc
10595	B-16/5114	PLUG, S/A,3" PV, 70-1A A23R 019	Nos.	1	1					Foc
10596	B-16/5115	PLUG, S/A, 2X1 1/2"PV70-1B, A23R 020	Nos.	1	1					Foc
10597	B-16/5116	PLUG, S/A, 8" PV, 70-2, A23R 021	Nos.	1	1					Foc
10598	B-16/5117	PLUG, S/A, 6B,PV 74, A23R 022	Nos.	1	1					Foc
10599	B-16/5118	PLUG, S/A, 5" PV, 95, A23R 023	Nos.	1	1					Foc
10600	B-16/5119	PLUG, S/A, 1 1/2", PV, 1028, A23R 024	Nos.	2	2					Foc
10601	B-16/5120	PLUG, S/A,1 1/2, PV, 99, A23R 025	Nos.	1	1					Foc
10602	B-16/5121	PLUG, S/A, 3X 2 1/2, LV,24 A23R 026	Nos.	1	1					Foc
10603	B-16/5122	PLUG, S/A, 3"-LV,27-2, A23R 027	Nos.	1	1					Foc
10604	B-16/5123	PLUG, S/A, 1" LV,29-1 , A23R 028	Nos.	1	1					Foc
10605	B-16/5124	PLUG, S/A, 1X 1/2," LV29-2 A23R 029	Nos.	1	1					Foc
10606	B-16/5125	PLUG, S/A, 2X1 1/4" LV,50,, A23R 030	Nos.	1	1					Foc
10607	B-16/5126	PLUG, S/A, 1X 1/8" PCV25,, A23R 031	Nos.	1	1					Foc
10608	B-16/5127	SEAT RING 8FV, 20A, A23R 043	Nos.	1	1					Foc
10609	B-16/5128	SEAT RING 6X4", FV 20B, A23R 044	Nos.	1	1					Foc
10610	B-16/5129	SEAT RING 3X2 1/2 FV-26,LV,24, A23R 045	Nos.	2	2					Foc
10611	B-16/5130	SEAT RING FV 25, PV,25, LV,1303 A23R 046	Nos.	2	2					Foc
10612	B-16/5131	SEAT RING , TV 24A,B PV,70-2, A23R 047	Nos.	3	3					Foc
10613	B-16/5132	SEAT RING , 3", TV,1032,PV,1032, A23R 048	Nos.	2	2					Foc
10614	B-16/5133	SEAT RING , 3" PV 28,LV,26-2, , A23R 048	Nos.	2	2					Foc
10615	B-16/5134	SEAT RING , 4" TV,26, A23R 049	Nos.	1	1					Foc
10616	B-16/5135	SEAT RING , 3X2, TV,76-1 A23R 050	Nos.	1	1					Foc
10617	B-16/5136	SEAT RING , TV,76-2A-1, 2B-1, A23R 051	Nos.	2	2					Foc
10618	B-16/5137	SEAT RING , TV,76-2A-2, 2B-2, A23R 052	Nos.	2	2					Foc
10619	B-16/5138	SEAT RING , 2 TV,77, A23R 053	Nos.	1	1					Foc
10620	B-16/5139	SEAT RING , 5" TV,95,PV,95, A23R 054	Nos.	2	2					Foc
10621	B-16/5140	SEAT RING , 2X1 1/4, PV 26, LV-50, A23R 055	Nos.	2	2					Foc
10622	B-16/5141	SEAT RING , 1" PV,27-1 A23R 056	Nos.	1	1					Foc
10623	B-16/5142	SEAT RING , 2" PV,27-2 A23R 057	Nos.	1	1					Foc

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
10624	B-16/5143	SEAT RING , 8" PV,29 A23R 058	Nos.	1	1					Foc
10625	B-16/5144	SEAT RING , 3" PV,70 1A A23R 059	Nos.	1	1					Foc
10626	B-16/5145	SEAT RING , 2X1 1/2" PV,70 1B A23R 060	Nos.	1	1					Foc
10627	B-16/5146	SEAT RING , 6 PV,74, A23R 061	Nos.	1	1					Foc
10628	B-16/5147	SEAT RING , 1 1/2 PV,97, A23R 062	Nos.	1	1					Foc
10629	B-16/5148	SEAT RING , 1 1/2 PV,99, A23R 063	Nos.	1	1					Foc
10630	B-16/5149	SEAT RING , 1 1/2 " PV,1028, A23R 064	Nos.	1	1					Foc
10631	B-16/5150	SEAT RING , 1" LV,29-1, A23R 065	Nos.	1	1					Foc
10632	B-16/5151	SEAT RING , 1X1/2" LV,29-2, A23R 066	Nos.	1	1					Foc
10633	B-16/5152	SEAT RING , 1X1/8" PCV,25, A23R 067	Nos.	1	1					Foc
10634	B-16/5153	BODY GASKET PV-95, A23R 068	Nos.	1	1					Foc
10635	B-16/5154	BODY GASKET FV,25,PV-25, A23R 069	Nos.	2	2					Foc
10636	B-16/5155	BODY GASKET ,PV-26,PV,27-1, A23R 069	Nos.	2	2					Foc
10637	B-16/5156	BODY GASKET ,PV-27-2,PV,97, A23R 069	Nos.	2	2					Foc
10638	B-16/5157	BODY GASKET ,PV1028, LV,29-1, A23R 069	Nos.	2	2					Foc
10639	B-16/5158	BODY GASKET LV,29-2,LV,50 A23R 069	Nos.	2	2					Foc
10640	B-16/5159	BODY GASKET LV,1303, PCV25 A23R 069	Nos.	2	2					Foc
10641	B-16/5160	BODY GASKET FV,26, PV1032 A23R 070	Nos.	2	2					Foc
10642	B-16/5161	BODY GASKET LV,24, LV26-2 A23R 070	Nos.	2	2					Foc
10643	B-16/5162	BODY GASKET FV,20A A23R 071	Nos.	1	1					Foc
10644	B-16/5163	BODY GASKET TV,77, A23R 072	Nos.	2	2					Foc
10645	B-16/5164	BODY GASKET TV,76-2 A-1 A23R 073	Nos.	1	1					Foc
10646	B-16/5165	BODY GASKET TV,76-2 B-1 A23R 073	Nos.	1	1					Foc
10647	B-16/5166	BODY GASKET TV,-76-2 A-2, A23R 073	Nos.	1	1					Foc
10648	B-16/5167	BODY GASKET TV,-76-2 B-2, PV-99 A23R 073	Nos.	2	2					Foc
10649	B-16/5168	BODY GASKET TV,-95, A23R 074	Nos.	1	1					Foc
10650	B-16/5169	BODY GASKET TV,-26 A23R 075	Nos.	1	1					Foc
10651	B-16/5170	BODY GASKET TV,-24 A,TV,24B, A23R 076	Nos.	2	2					Foc
10652	B-16/5171	BODY GASKET PV,29,PV,70-2, A23R 076	Nos.	2	2					Foc
10653	B-16/5172	BODY GASKET PV,-74 A23R 077	Nos.	1	1					Foc
10654	B-16/5173	BODY GASKET TV,-1032,PV,28, , A23R 078	Nos.	2	2					Foc
10655	B-16/5174	BODY GASKET ,PV,70-1B,, , A23R 079	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
10656	B-16/5175	BODY GASKET TV,-76-1,PV,70-1A, , A23R 080	Nos.	2	2					Foc
10657	B-16/5178	SEAT RING GASKET FV,-20A , A23R 083	Nos.	1	1					Foc
10658	B-16/5179	SEAT RING GASKET FV,-20B,PV,74 , A23R 084	Nos.	2	2					Foc
10659	B-16/5180	SEAT RING GASKET TV,-76-1 , A23R 085	Nos.	1	1					Foc
10660	B-16/5181	SEAT RING GASKET PV,-70-1A,, A23R 085	Nos.	1	1					Foc
10661	B-16/5182	SEAT RING GASKET PV,-70-1B,, A23R 086	Nos.	1	1					Foc
10662	B-16/5183	SEAT RING GASKET TV,-24A ,TV,24B, A23R 087	Nos.	2	2					Foc
10663	B-16/5184	SEAT RING GASKET PV,-29,PV,70-2, , A23R 087	Nos.	2	2					Foc
10664	B-16/5185	SEAT RING GASKET TV,-76-2 A-1 , A23R 088	Nos.	1	1					Foc
10665	B-16/5186	SEAT RING GASKET TV,-76-2B-1 , A23R 088	Nos.	1	1					Foc
10666	B-16/5187	SEAT RING GASKET TV,-76-2A-2 , A23R 088	Nos.	1	1					Foc
10667	B-16/5188	SEAT RING GASKET TV,-76-2B-2 , A23R 088	Nos.	1	1					Foc
10668	B-16/5189	SEAT RING GASKET PV,-99 , A23R 088	Nos.	1	1					Foc
10669	B-16/5190	GASKET FV,-20 A,TV,24B,, A23R 089	Nos.	3	3					Foc
10670	B-16/5191	GASKET PV70-2, A23R 089	Nos.	1	1					Foc
10671	B-16/5192	GASKET FV 20A TV,24A , A23R 090	Nos.	2	2					Foc
10672	B-16/5193	GASKET TV,24B PV 70-2 A23R 090	Nos.	2	2					Foc
10673	B-16/5194	GASKET PV29, A23R 091	Nos.	1	1					Foc
10674	B-16/5195	GASKET PV74, A23R 092	Nos.	1	1					Foc
10675	B-16/5196	GASKET PV74, A23R 093	Nos.	1	1					Foc
10676	B-16/5197	PACKING,, A23R 103	Nos.	3	3					Foc
10677	B-16/5198	PACKING,, A23R 104	Nos.	8	8					Foc
10678	B-17/5201	GASKET, A23 R107, PACKING	Nos.	11	11					Foc
10679	B-17/5203	PACKING,, A23R 109	Nos.	13	13					Foc
10680	B-17/5206	DIAPHRAGM(11ACT) A23R 119	Nos.	2	2					Foc
10681	B-17/5207	DIAPHRAGM (13ACT) A23R 120	Nos.	2	2					Foc
10682	B-17/5209	DIAPHRAGM (18 ACT) A23R 122	Nos.	1	1					Foc
10683	B-17/5210	DIAPHRAGM (18 ACT) A23R 123 DOUBLE BOLT.	Nos.	2	2					Foc
10684	B-17/5211	DIAPHRAGM (24 ACT) A23R 124 DOUBLE BOLT.	Nos.	2	2					Foc
10685	B-17/5212	POSITIONER, 7400NB,700,800,A23R186	Nos.	1	1					Foc
10686	B-17/5213	POSITIONER, 7401NB,700,800,A23R187	Nos.	1	1					Foc
10687	B-17/5214	POSITIONER, 7401NB,702,802,A23R188	Nos.	1	1					Foc

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10688	B-17/5215	POSITIONER, 7401NB,704,804,A23R189	Nos.	1	1					Foc
10689	B-17/5216	POSITIONER, 7431NB,700,800,A23R190	Nos.	1	1					Foc
10690	B-17/5217	POSITIONER, 7431NB,702,802,A23R191	Nos.	1	1					Foc
10691	B-17/5218	POSITIONER, 7431NB,704,804,A23R192	Nos.	1	1					Foc
10692	B-17/5219	POSITIONER, 7402NB,704,804,A23R193	Nos.	1	1					Foc
10693	B-17/5220	POSITIONER, 7402 NB,714,814,A23R194	Nos.	1	1					Foc
10694	B-17/5223	NOZZLE # 11 A23R197	Nos.	1	1					Foc
10695	B-17/5224	NOZZLE # 12 A23R198	Nos.	1	1					Foc
10696	B-17/5225	NOZZLE # 15 A23R199	Nos.	1	1					Foc
10697	B-17/5226	PLUG S/A STAIN A23R 004A	Nos.	1	1					Foc
10698	B-17/5227	SEAT RING, A23R 044A	Nos.	1	1					Foc
10699	B-17/5228	LOCK UP VALVE, 77-6, A23R 211	Nos.	1	1					Foc
10700	B-17/5230	TRANSFER VALVE 77-80,H A23R 213	Nos.	1	1					Foc
10701	B-17/5231	CHECK VALVE A19R 4010	Nos.	1	1					Foc
10702	B-17/5235	CHECK VALVE A19R 4015	Nos.	1	1					Foc
10703	B-17/5242	GATE VALVE A19R 4023	Nos.	1	1					Foc
10704	B-17/5243	CHECK VALVE A19R 4024	Nos.	1	1					Foc
10705	B-17/5244	GLOBE VALVE A19R 4025	Nos.	1	1					Foc
10706	B-17/5248	GLOBE VALVE A19R 4031	Nos.	1	1					Foc
10707	B-17/5251	CHECK VALVE A19R 4036	Nos.	1	1					Foc
10708	B-17/5252	CHECK VALVE A19R 4037	Nos.	1	1					Foc
10709	B-17/5255	CHECK VALVE A19R 4041	Nos.	1	1					Foc
10710	B-17/5256	GATE VALVE A19M 2001	Nos.	2	2					Foc
10711	B-17/5257	GATE VALVE A19M 2005	Nos.	2	2					Foc
10712	B-17/5258	GATE VALVE A19M 2006	Nos.	2	2					Foc
10713	B-17/5259	GATE VALVE A19M 2007	Nos.	2	2					Foc
10714	B-17/5263	GATE VALVE A19M 2011	Nos.	1	1					Foc
10715	B-17/5264	GATE VALVE A19M 2012	Nos.	1	1					Foc
10716	B-17/5265	GATE VALVE A19M 2024	Nos.	1	1					Foc
10717	B-17/5266	WATER SEAL A19M 2025	Nos.	2	2					Foc
10718	B-17/5275	GATE VALVE A19R 4055	Nos.	1	1					Foc
10719	B-17/5276	GATE VALVE A19R M 2056	Nos.	1	1					Foc

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10720	B-17/5277	GATE VALVE A19R M 2057	Nos.	1	1					Foc
10721	B-17/5299	ELBOW, A19M 3068	Nos.	2	2					Foc
10722	B-17/5304	TEE, A19M 3076	Nos.	2	2					Foc
10723	B-17/5305	TEE, A19M 3077	Nos.	2	2					Foc
10724	B-17/5306	TEE, A19M 3078	Nos.	2	2					Foc
10725	B-17/5307	TEE, A19M 3079	Nos.	1	1					Foc
10726	B-17/5308	TEE, A19M 3080	Nos.	2	2					Foc
10727	B-17/5309	TEE, A19M 3081	Nos.	2	2					Foc
10728	B-17/5310	TEE, A19M 3082	Nos.	1	1					Foc
10729	B-17/5311	TEE, A19M 3083	Nos.	2	2					Foc
10730	B-17/5313	TEE, A19M 3085	Nos.	1	1					Foc
10731	B-17/5314	TEE, A19M 3086	Nos.	1	1					Foc
10732	B-17/5315	TEE, A19M 3087	Nos.	1	1					Foc
10733	B-17/5316	TEE, A19M 3088	Nos.	2	2					Foc
10734	B-17/5317	TEE, A19M 3091	Nos.	2	2					Foc
10735	B-17/5318	BUTT WELD REDUCER , A19M 3094	Nos.	2	2					Foc
10736	B-17/5319	BUTT WELD REDUCER , A19M 3095	Nos.	2	2					Foc
10737	B-17/5320	BUTT WELD REDUCER , A19M 3096	Nos.	2	2					Foc
10738	B-17/5321	BUTT WELD REDUCER , A19M 3097	Nos.	2	2					Foc
10739	B-17/5322	BUTT WELD REDUCER , A19M 3098	Nos.	1	1					Foc
10740	B-17/5323	BUTT WELD REDUCER , A19M 3099	Nos.	2	2					Foc
10741	B-17/5327	BUTT WELD REDUCER , A19M 3103	Nos.	2	2					Foc
10742	B-17/5329	BUTT WELD REDUCER , A19M 3106	Nos.	2	2					Foc
10743	B-17/5331	BUTT WELD REDUCER , A19M 3108	Nos.	2	2					Foc
10744	B-17/5332	BUTT WELD REDUCER , A19M 3109	Nos.	2	2					Foc
10745	B-17/5333	BUTT WELD REDUCER , A19M 3110	Nos.	2	2					Foc
10746	B-17/5335	BUTT WELD REDUCER , A19M 3112	Nos.	1	1					Foc
10747	B-17/5337	BUTT WELD REDUCER , A19M 3114	Nos.	2	2					Foc
10748	B-17/5338	BUTT WELD REDUCER , A19M 3115	Nos.	1	1					Foc
10749	B-17/5339	BUTT WELD REDUCER , A19M 3116	Nos.	2	2					Foc
10750	B-17/5340	BUTT WELD REDUCER , A19M 3117	Nos.	1	1					Foc
10751	B-17/5341	BUTT WELD REDUCER , A19M 3118	Nos.	1	1					Foc

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10752	B-17/5343	BUTT WELD REDUCER , A19M 3120	Nos.	2	2					Foc
10753	B-17/5345	BUTT WELD REDUCER , A19M 3122	Nos.	2	2					Foc
10754	B-17/5347	BUTT WELD REDUCER , A19M 3124	Nos.	2	2					Foc
10755	B-17/5350	BUTT WELD REDUCER , A19M 3127	Nos.	2	2					Foc
10756	B-17/5351	BUTT WELD REDUCER , A19M 3128	Nos.	2	2					Foc
10757	B-17/5352	BUTT WELD REDUCER , A19M 3129	Nos.	2	2					Foc
10758	B-17/5353	BUTT WELD REDUCER , A19M 3130	Nos.	1	1					Foc
10759	B-17/5362	BUTT WELD REDUCER , A19M 3139	Nos.	2	2					Foc
10760	B-17/5363	BUTT WELD REDUCER , A19M 3140	Nos.	1	1					Foc
10761	B-17/5366	BUTT WELD REDUCER , A19M 3143	Nos.	1	1					Foc
10762	B-17/5367	BUTT WELD REDUCER , A19M 3144	Nos.	1	1					Foc
10763	B-17/5369	BUTT WELD REDUCER , A19M 3146	Nos.	2	2					Foc
10764	B-17/5370	BUTT WELD REDUCER , A19M 3148	Nos.	2	2					Foc
10765	B-17/5376	BUTT WELD REDUCER , A19M 3154	Nos.	2	2					Foc
10766	B-17/5377	BUTT WELD REDUCER , A19M 3155	Nos.	2	2					Foc
10767	B-17/5379	CAP, A19M 3157	Nos.	2	2					Foc
10768	B-17/5380	CAP, A19M 3158	Nos.	2	2					Foc
10769	B-17/5381	CAP, A19M 3159	Nos.	2	2					Foc
10770	B-17/5382	CAP, A19M 3160	Nos.	2	2					Foc
10771	B-17/5383	CAP, A19M 3161	Nos.	2	2					Foc
10772	B-17/5384	CAP, A19M 3162	Nos.	2	2					Foc
10773	B-17/5385	CAP, A19M 3163	Nos.	2	2					Foc
10774	B-17/5386	CAP, A19M 3164	Nos.	2	2					Foc
10775	B-17/5387	CAP, A19M 3165	Nos.	2	2					Foc
10776	B-17/5388	CAP, A19M 3166	Nos.	2	2					Foc
10777	B-17/5389	CAP, A19M 3167	Nos.	2	2					Foc
10778	B-17/5390	CAP, A19M 3168	Nos.	2	2					Foc
10779	B-17/5391	CAP, A19M 3169	Nos.	2	2					Foc
10780	B-17/5392	CAP, A19M 3170	Nos.	2	2					Foc
10781	B-17/5395	SAFTY VALVE, A02 R029	Nos.	1	1					Foc
10782	B-17/5396	SAFTY VALVE, A02 R030	Nos.	1	1					Foc
10783	B-17/5399	GATE VALVE, A19 R4028	Nos.	1	1					Foc

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
10784	B-17/5400	THERMOWELL A19R4042	Nos.	1	1					Foc
10785	B-18/5401	THERMOWELL A19R4043	Nos.	1	1					Foc
10786	B-18/5402	THERMOWELL A19R4045	Nos.	1	1					Foc
10787	B-18/5403	THERMOWELL A19R4046	Nos.	1	1					Foc
10788	B-18/5404	THRUST BEARING, A21 R001	Nos.	1	1					Foc
10789	B-18/5406	BALL BEARING, A21 R003	Nos.	1	1					Foc
10790	B-18/5408	BALL BEARING, A21 R005	Nos.	2	2					Foc
10791	B-18/5410	BALL BEARING, A21 R007	Nos.	2	2					Foc
10792	B-18/5411	OIL SEAL, A21 R008	Nos.	1	1					Foc
10793	B-18/5412	OIL SEAL, A21 R009	Nos.	1	1					Foc
10794	B-18/5413	GLAND PACKING , A21 R011	Nos.	1	1					Foc
10795	B-18/5414	RING PACKING , A21 R010	Nos.	1	1					Foc
10796	B-18/5415	GASKET , A21 R012	Nos.	1	1					Foc
10797	B-18/5416	PACKING A21 R013	Nos.	2	2					Foc
10798	B-18/5417	PACKING A21 R014	Nos.	1	1					Foc
10799	B-18/5418	PACKING A21 R015	Nos.	2	2					Foc
10800	B-18/5419	PACKING A21 R016	Nos.	1	1					Foc
10801	B-18/5420	PACKING A21 R017	Nos.	1	1					Foc
10802	B-18/5421	GASKET , A21 R018	Nos.	1	1					Foc
10803	B-18/5422	GASKET , A21 R019	Nos.	1	1					Foc
10804	B-18/5423	GASKET , A21 R020	Nos.	1	1					Foc
10805	B-18/5424	GASKET , A21 R021	Nos.	1	1					Foc
10806	B-18/5425	O" RING A21 R022	Nos.	1	1					Foc
10807	B-18/5426	CHECK VALVE, A19M2002	Nos.	2	2					Foc
10808	B-18/5427	GLOBE VALVE, A19M2004	Nos.	2	2					Foc
10809	B-18/54298	CHECK VALVE, A19M2013	Nos.	2	2					Foc
10810	B-18/5429	CHECK VALVE, A19M2014	Nos.	2	2					Foc
10811	B-18/5430	GLOBE VALVE, A19M2015	Nos.	1	1					Foc
10812	B-18/5432	GATE VALVE, A19M2019	Nos.	2	2					Foc
10813	B-18/5433	GATE VALVE, A19M2021	Nos.	2	2					Foc
10814	B-18/5435	CHECK VALVE, A19M2029	Nos.	2	2					Foc
10815	B-18/5436	CHECK VALVE, A19M2030	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
10816	B-18/5438	GLOBE VALVE, A19M2034	Nos.	2	2					Foc
10817	B-18/5439	GATE VALVE, A19M2060	Nos.	2	2					Foc
10818	B-18/5440	GLOBE VALVE, A19M4016	Nos.	1	1					Foc
10819	B-18/5441	GATE VALVE, A19M4032	Nos.	1	1					Foc
10820	B-18/5444	CHECK VALVE, A19M2003	Nos.	2	2					Foc
10821	B-18/5447	GATE VALVE, A19M2020	Nos.	2	2					Foc
10822	B-18/5448	GATE VALVE, A19M2023	Nos.	1	1					Foc
10823	B-18/5449	GATE VALVE, A19M2031	Nos.	2	2					Foc
10824	B-18/5451	GLOBE VALVE, A19M2036	Nos.	2	2					Foc
10825	B-18/5452	GLOBE VALVE, A19M2037	Nos.	2	2					Foc
10826	B-18/5453	GLOBE VALVE, A19M2038	Nos.	2	2					Foc
10827	B-18/5460	CHECK VALVE, A19M2049	Nos.	2	2					Foc
10828	B-18/5465	CHECK VALVE, A19M2054	Nos.	2	2					Foc
10829	B-18/5467	GATE VALVE, A19M2056	Nos.	1	1					Foc
10830	B-18/5468	GATE VALVE, A19M2057	Nos.	1	1					Foc
10831	B-18/5469	GATE VALVE, A19M2058	Nos.	2	2					Foc
10832	B-18/5470	GATE VALVE, A19M2059	Nos.	2	2					Foc
10833	B-18/5471	GASKET, A06 M019A	Nos.	2	2					Foc
10834	B-18/5473	GASKET, A19 M1097	Nos.	4	4					Foc
10835	B-18/5475	GASKET, A19 M1099	Nos.	3	3					Foc
10836	B-18/5477	GASKET, A19 M1101	Nos.	27	27					Foc
10837	B-18/5478	GLAND PACKING, A19 M1102	Nos.	37	37					Foc
10838	B-18/5479	GASKET, A19 M1103	Nos.	3	3					Foc
10839	B-18/5480	GLAND PACKING, A19 M1104	Nos.	3	3					Foc
10840	B-18/5481	GASKET, A19 M1105	Nos.	43	43					Foc
10841	B-18/5482	GLAND PACKING, A19 M1106	Nos.	43	43					Foc
10842	B-18/5483	GASKET, A19 M1107	Nos.	8	8					Foc
10843	B-18/54854	GLAND PACKING, A19 M1108	Nos.	56	56					Foc
10844	B-18/5485	GASKET, A19 M1109	Nos.	13	13					Foc
10845	B-18/54876	GLAND PACKING, A19 M1110	Nos.	13	13					Foc
10846	B-18/5487	GASKET, A19 M1111	Nos.	87	87					Foc
10847	B-18/5488	GLAND PACKING, A19 M1112	Nos.	87	87					Foc

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1	2	3	4	5	6	7	8	10	11	12
10848	B-18/5489	GASKET, A19 M1113	Nos.	100	100					Foc
10849	B-18/5490	GLAND PACKING, A19 M1114	Nos.	100	100					Foc
10850	B-18/5491	GASKET, A19 M1115	Nos.	9	9					Foc
10851	B-18/5492	GLAND PACKING, A19 M1116	Nos.	9	9					Foc
10852	B-18/5493	GASKET, A19 M1117	Nos.	8	8					Foc
10853	B-18/5495	GASKET, A19 M1119	Nos.	37	37					Foc
10854	B-18/5496	GLAND PACKING, A19 M1120	Nos.	37	37					Foc
10855	B-18/5498	GLAND PACKING, A19 M1122	Nos.	35	35					Foc
10856	B-18/5499	GASKET, A19 M1123	Nos.	59	59					Foc
10857	B-18/5500	GLAND PACKING, A19 M1124	Roll	59	59					Foc
10858	B-18/5501	GASKET, A19 M1125	Nos.	11	11					Foc
10859	B-18/5502	GLAND PACKING, A19 M1126	Nos.	11	11					Foc
10860	B-18/5503	GASKET, A19 M1127	Nos.	6	6					Foc
10861	B-18/5504	GLAND PACKING, A19 M1128	Nos.	6	6					Foc
10862	B-18/5505	GASKET, A19 M1129	Nos.	5	5					Foc
10863	B-18/55076	GLAND PACKING, A19 M1130	Nos.	5	5					Foc
10864	B-18/5507	GASKET, A19 M1131	Nos.	3	3					Foc
10865	B-18/5508	GASKET, A19 M1132	Nos.	1	1					Foc
10866	B-18/5509	GASKET, A19 M1133	Nos.	3	3					Foc
10867	B-18/5510	GASKET, A19 M1134	Nos.	7	7					Foc
10868	B-18/5511	GLAND PACKING, A19 M1135	Nos.	49	49					Foc
10869	B-18/5512	GASKET, A19 M1136	Nos.	10	10					Foc
10870	B-18/5513	GLAND PACKING, A19 M1137	Nos.	80	80					Foc
10871	B-18/5514	GASKET, A19 M1138	Nos.	1	1					Foc
10872	B-18/5515	GASKET, A19 M1139	Nos.	1	1					Foc
10873	B-18/5517	SEAT PACKING A19M1186	Nos.	1	1					Foc
10874	B-18/5518	GLAND PACKING, A19 M1187	Nos.	12	12					Foc
10875	B-18/5519	WELDING ROD, A06M020 (CMA-106)	Nos.	1	1					Foc
10876	B-18/5525	WELDING ROD, A06M026, 40KG 3.2 mm	Kg	30	30					Foc
10877	B-18/5526	WELDING ROD, A06M027, 40KG	Kg	40	40					Foc
10878	B-18/5529	ELBOW, A19 M3172	Nos.	2	2					Foc
10879	B-18/5530	ELBOW, A19 M3173	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
10880	B-18/5531	ELBOW, A19 M3174	Nos.	2	2					Foc
10881	B-18/5533	ELBOW, A19 M3176	Nos.	2	2					Foc
10882	B-18/5535	ELBOW, A19 M3178	Nos.	2	2					Foc
10883	B-18/5536	ELBOW, A19 M3179	Nos.	2	2					Foc
10884	B-18/5537	ELBOW, A19 M3180	Nos.	2	2					Foc
10885	B-18/5538	ELBOW, A19 M3181	Nos.	2	2					Foc
10886	B-18/5540	TEE, A19 M3184	Nos.	2	2					Foc
10887	B-18/5541	TEE, A19 M3185	Nos.	2	2					Foc
10888	B-18/5542	TEE, A19 M3186	Nos.	2	2					Foc
10889	B-18/5543	TEE, A19 M3187	Nos.	2	2					Foc
10890	B-18/5545	TEE, A19 M3190	Nos.	2	2					Foc
10891	B-18/5546	TEE, A19 M3191	Nos.	2	2					Foc
10892	B-18/5547	TEE, A19 M3192	Nos.	2	2					Foc
10893	B-18/5548	TEE, A19 M3193	Nos.	2	2					Foc
10894	B-18/5549	TEE, A19 M3194	Nos.	2	2					Foc
10895	B-18/5550	TEE, A19 M3195	Nos.	2	2					Foc
10896	B-18/5551	TEE, A19 M3196	Nos.	2	2					Foc
10897	B-18/5552	TEE, A19 M3197	Nos.	2	2					Foc
10898	B-18/5553	TEE, A19 M3198	Nos.	2	2					Foc
10899	B-18/5554	TEE, A19 M3199	Nos.	2	2					Foc
10900	B-18/5555	TEE, A19 M3200	Nos.	2	2					Foc
10901	B-18/5556	SOCKET WELD REDUCER, A19M3202	Nos.	2	2					Foc
10902	B-18/5557	SOCKET WELD REDUCER, A19M3203	Nos.	2	2					Foc
10903	B-18/5558	SOCKET WELD REDUCER, A19M3204	Nos.	2	2					Foc
10904	B-18/5559	SOCKET WELD REDUCER, A19M3205	Nos.	2	2					Foc
10905	B-18/5560	SOCKET WELD REDUCER, A19M3206	Nos.	2	2					Foc
10906	B-18/5561	SOCKET WELD REDUCER, A19M3207	Nos.	2	2					Foc
10907	B-18/5562	SOCKET WELD REDUCER, A19M3208	Nos.	2	2					Foc
10908	B-18/5563	SOCKET WELD REDUCER, A19M3211	Nos.	2	2					Foc
10909	B-18/5564	SOCKET WELD REDUCER, A19M3212	Nos.	2	2					Foc
10910	B-18/5565	SOCKET WELD REDUCER, A19M3213	Nos.	2	2					Foc
10911	B-18/5566	SOCKET WELD REDUCER, A19M3214	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
10912	B-18/5567	SOCKET WELD REDUCER, A19M3215	Nos.	2	2					Foc
10913	B-18/5568	SOCKET WELD REDUCER, A19M3216	Nos.	2	2					Foc
10914	B-18/5569	SOCKET WELD REDUCER, A19M3217	Nos.	2	2					Foc
10915	B-18/5570	FULL COUPLING, A19M 3220	Nos.	2	2					Foc
10916	B-18/5571	FULL COUPLING, A19M 3221	Nos.	2	2					Foc
10917	B-18/5572	FULL COUPLING, A19M 3223	Nos.	2	2					Foc
10918	B-18/5573	FULL COUPLING, A19M 3224	Nos.	2	2					Foc
10919	B-18/5574	FULL COUPLING, A19M 3225	Nos.	2	2					Foc
10920	B-18/5575	FULL COUPLING, A19M 3226	Nos.	2	2					Foc
10921	B-18/5576	FULL COUPLING, A19M 3227	Nos.	2	2					Foc
10922	B-18/5577	FULL COUPLING, A19M 3228	Nos.	2	2					Foc
10923	B-18/5578	FULL COUPLING, A19M 3229	Nos.	2	2					Foc
10924	B-18/5579	FULL COUPLING, A19M 3230	Nos.	2	2					Foc
10925	B-18/5580	CAP, A19M 3232	Nos.	2	2					Foc
10926	B-18/5581	CAP, A19M 3233	Nos.	2	2					Foc
10927	B-18/5582	CAP, A19M 3234	Nos.	2	2					Foc
10928	B-18/5583	CAP, A19M 3235	Nos.	2	2					Foc
10929	B-18/5584	FULL COUPLING, A19M 3238	Nos.	2	2					Foc
10930	B-18/5585	HALF COUPLING, A19M 3241	Nos.	2	2					Foc
10931	B-18/5586	HALF COUPLING, A19M 3242	Nos.	2	2					Foc
10932	B-18/5587	HALF COUPLING, A19M 3243	Nos.	2	2					Foc
10933	B-18/5588	PLUG, A19M 3244	Nos.	2	2					Foc
10934	B-18/5589	PLUG, A19M 3245	Nos.	2	2					Foc
10935	B-18/5590	CAP, A19M 3247	Nos.	2	2					Foc
10936	B-18/5591	CAP, A19M 3248	Nos.	2	2					Foc
10937	B-18/5592	CAP, A19M 3249	Nos.	2	2					Foc
10938	B-18/5593	FLANGE, A19M 3274	Nos.	2	2					Foc
10939	B-18/5597	FLANGE, A19M 3278	Nos.	1	1					Foc
10940	B-19/5602	FLANGE, A19M 3283	Nos.	2	2					Foc
10941	B-19/5603	FLANGE, A19M 3286	Nos.	2	2					Foc
10942	B-19/5604	FLANGE, A19M 3287	Nos.	2	2					Foc
10943	B-19/5606	FLANGE, A19M 3289	Nos.	2	2					Foc

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1	2	3	4	5	6	7	8	10	11	12
10944	B-19/5608	FLANGE, A19M 3291	Nos.	1	1					Foc
10945	B-19/5615	FLANGE, A19M 3298	Nos.	2	2					Foc
10946	B-19/5617	FLANGE, A19M 3300	Nos.	2	2					Foc
10947	B-19/5619	FLANGE, A19M 3302	Nos.	2	2					Foc
10948	B-19/5620	FLANGE, A19M 3303	Nos.	2	2					Foc
10949	B-19/5621	FLANGE, A19M 3304	Nos.	2	2					Foc
10950	B-19/5623	FLANGE, A19M 3306	Nos.	2	2					Foc
10951	B-19/5624	BLIND FLANGE, A19M 3307	Nos.	2	2					Foc
10952	B-19/5625	BLIND FLANGE, A19M 3308	Nos.	1	1					Foc
10953	B-19/5627	BLIND FLANGE, A19M 3310	Nos.	2	2					Foc
10954	B-19/5629	BLIND FLANGE, A19M 3312	Nos.	2	2					Foc
10955	B-19/5630	BLIND FLANGE, A19M 3313	Nos.	2	2					Foc
10956	B-19/5631	BLIND FLANGE, A19M 3314	Nos.	2	2					Foc
10957	B-19/5632	INSULATION FOR DOWN COMER(53 C/T)A05M016	Nos.	43	43					Foc
10958	B-19/5633	INSULATION PIPING (4 C/T) A05M017	Nos.	4	4					Foc
10959	B-19/5634	INSULATION PIPING (20 C/T) A05M018	Nos.	15	15					Foc
10960	B-19/5635	INSULATION PIPING (10 C/T) A05M019	Nos.	18	18					Foc
10961	B-19/5636	GLAND PACKING, A19M1226	Nos.	8	8					Foc
10962	B-19/5637	GASKET, A19M1227	Nos.	8	8					Foc
10963	B-19/5639	BALL BEARING, A07M074	Nos.	1	1					Foc
10964	B-19/5640	GLAND PACKING, A19M1206	Nos.	4	4					Foc
10965	B-19/5641	GLAND PACKING, A19M1207	Nos.	7	7					Foc
10966	B-19/5642	GLAND PACKING, A19M1208	Nos.	15	15					Foc
10967	B-19/5643	GLAND PACKING, A19M1209	Nos.	2	2					Foc
10968	B-19/5644	GLAND PACKING, A19M1210	Nos.	35	35					Foc
10969	B-19/5650	CHECK VALVE, A19M2069	Nos.	2	2					Foc
10970	B-19/5651	LAGGING FOR FLATE SHEET, A05M024	Nos.	35	35					Foc
10971	B-19/5653	TILE SLEAVE, A05M005 (A05M-004)	Nos.	1	1					Foc
10972	B-19/5656	GLAND PACKING, A19M1167	Nos.	12	12					Foc
10973	B-19/5657	GLAND PACKING, A19M1168	Nos.	12	12					Foc
10974	B-19/5658	GLAND PACKING, A19M1169	Nos.	372	372					Foc
10975	B-19/5659	GLAND PACKING, A19M1170	Nos.	24	24					Foc

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1	2	3	4	5	6	7	8	10	11	12
10976	B-19/5660	GLAND PACKING, A19M1171	Nos.	264	264					Foc
10977	B-19/5662	GASKET, A19M1173	Nos.	2	2					Foc
10978	B-19/5663	GASKET RING, A19M1174	Nos.	3	3					Foc
10979	B-19/5664	GASKET RING, A19M1175	Nos.	2	2					Foc
10980	B-19/5665	GASKET RING, A19M1176	Nos.	1	1					Foc
10981	B-19/5666	SEAT PACKING, A19M1177	Nos.	2	2					Foc
10982	B-19/5667	SEAT PACKING, A19M1178	Nos.	1	1					Foc
10983	B-19/5668	SEAT RING, A19M1179	Nos.	12	12					Foc
10984	B-19/5669	GASKET , A19M1180	Nos.	1	1					Foc
10985	B-19/5670	GLAND PACKING, A19M1182	Nos.	2	2					Foc
10986	B-19/5671	GASKET RING, A19M1183	Nos.	2	2					Foc
10987	B-19/5672	GLAND PACKING, A19M1184	Nos.	12	12					Foc
10988	B-19/5673	GASKET RING, A19M1185	Nos.	1	1					Foc
10989	B-19/5674	BURNER TILE, A05M005	Nos.	3	3					Foc
10990	B-19/5676	FLANGE GASKET , A19M1205	Nos.	12	12					Foc
10991	B-19/5680	SEAL RING, A19M1143	Nos.	1	1					Foc
10992	B-19/5682	SEAL RING, A19M1145	Nos.	1	1					Foc
10993	B-19/5683	GLAND PACKING, A19M1146	Nos.	1	1					Foc
10994	B-19/5684	SEAL RING, A19M1147	Nos.	1	1					Foc
10995	B-19/5685	GLAND PACKING, A19M1148	Nos.	12	12					Foc
10996	B-19/5686	GASKET PACKING, A19M1149	Nos.	1	1					Foc
10997	B-19/5688	SEAL RING, A19M1151	Nos.	1	1					Foc
10998	B-19/5689	GLAND PACKING, A19M1152	Nos.	1	1					Foc
10999	B-19/5690	SEAL RING, A19M1153	Nos.	1	1					Foc
11000	B-19/5691	GLAND PACKING, A19M1154	Nos.	12	12					Foc
11001	B-19/5693	GASKET RING, A19M1156	Nos.	1	1					Foc
11002	B-19/5694	GASKET RING, A19M1157	Nos.	1	1					Foc
11003	B-19/5695	GASKET RING, A19M1158	Nos.	1	1					Foc
11004	B-19/5696	GASKET RING, A19M1159	Nos.	1	1					Foc
11005	B-19/5697	GASKET RING, A19M1160	Nos.	1	1					Foc
11006	B-19/5698	GASKET RING, A19M1161	Nos.	1	1					Foc
11007	B-19/5799	GASKET RING, A19M1162	Nos.	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
11008	B-19/5700	SEAT PACKING, A19M1163	Nos.	1	1					Foc
11009	B-19/5701	GLAND PACKING, A19M1164	Nos.	1	1					Foc
11010	B-19/5702	SEAT PACKING, A19M1165	Nos.	1	1					Foc
11011	B-19/5703	SEAT PACKING, A19M1166	Nos.	1	1					Foc
11012	B-19/5704	GLAND PACKING, A19M1181	Nos.	1	1					Foc
11013	B-19/5705	SEAL, A07M051	Nos.	20	20					Foc
11014	B-19/5707	SEAL, A07M053	Nos.	24	24					Foc
11015	B-19/5709	HOLDING STRIP, A07M055	Nos.	40	40					Foc
11016	B-19/5710	HOLDING STRIP, A07M056	Nos.	24	24					Foc
11017	B-19/5712	MOTOR, A10R001	Nos.	2	2					Foc
11018	B-19/5715	BUSH (CORBON BUSH FOR DC MOTOR) A07R65	Nos.	8	8					Foc
11019	B-19/5717	BEARING, A07R002	Nos.	1	1					Foc
11020	B-19/5719	PACKING, A07R004	Nos.	12	12					Foc
11021	B-19/5720	PACKING, A07R005	Nos.	48	48					Foc
11022	B-19/5721	PACKING, A07R006	Nos.	6	6					Foc
11023	B-19/5730	BEARING, A07R015	Nos.	4	4					Foc
11024	B-19/5731	METAL BEARING, A07R016	Nos.	12	12					Foc
11025	B-19/5733	PACKING, A07R018	Nos.	4	4					Foc
11026	B-19/5734	PACKING, A07R019	Nos.	13	13					Foc
11027	B-19/5735	PACKING, A07R020	Nos.	12	12					Foc
11028	B-19/5736	PACKING, A07R021	Nos.	8	8					Foc
11029	B-19/5737	PACKING, A07R022	Nos.	24	24					Foc
11030	B-19/5738	PACKING, A07R023	Nos.	12	12					Foc
11031	B-19/5739	PACKING, A07R024	Nos.	12	12					Foc
11032	B-19/5740	PACKING, A07R025	Nos.	8	8					Foc
11033	B-19/5741	PACKING, A07R026	Nos.	9	9					Foc
11034	B-19/5742	PACKING, A07R027	Nos.	6	6					Foc
11035	B-19/5743	PACKING, A07R028	Nos.	1	1					Foc
11036	B-19/5744	PACKING, A07R029	Nos.	2	2					Foc
11037	B-19/5745	PACKING, A07R030	Nos.	20	20					Foc
11038	B-19/5746	PACKING, A07R031	Nos.	17	17					Foc
11039	B-19/5747	ZINC BAR, A07R032	Nos.	10	10					Foc

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11040	B-19/5748	ZINC BAR, A07R033	Nos.	3	3					Foc
11041	B-19/5749	PACKING, A07R034	Nos.	10	10					Foc
11042	B-19/5750	PACKING, A07R035	Nos.	6	6					Foc
11043	B-19/5751	PACKING, A07R036	Nos.	3	3					Foc
11044	B-19/5752	PROTECTING ZINC CAREER, A07R037	Nos.	6	6					Foc
11045	B-19/5753	PROTECTING ZINC A07R038	Nos.	12	12					Foc
11046	B-19/5754	PROTECTING ZINC A07R039	Nos.	12	12					Foc
11047	B-19/5755	PROTECTING ZINC A07R040	Nos.	10	10					Foc
11048	B-19/5756	PACKING, A07R041	Nos.	4	4					Foc
11049	B-19/5757	PACKING, A07R042	Nos.	4	4					Foc
11050	B-19/5758	PACKING, A07R043	Nos.	6	6					Foc
11051	B-19/5759	PACKING, A07R044	Nos.	46	46					Foc
11052	B-19/5760	PACKING, A07R045	Nos.	12	12					Foc
11053	B-19/5761	PACKING, A07R046	Nos.	8	8					Foc
11054	B-19/5762	PACKING, A07R047	Nos.	4	4					Foc
11055	B-19/5763	PACKING, A07R048	Nos.	12	12					Foc
11056	B-19/5764	PACKING, A07R049	Nos.	16	16					Foc
11057	B-19/5765	PACKING, A07R050	Nos.	16	16					Foc
11058	B-19/5766	PACKING, A07R051	Nos.	2	2					Foc
11059	B-19/5767	BALL BEARING , A07R052	Nos.	2	2					Foc
11060	B-19/5772	FLEXIABLE PLATE, A07R057	Nos.	2	2					Foc
11061	B-19/5773	FLEXIABLE PLATE, A07R058	Nos.	2	2					Foc
11062	B-19/5775	GLAUE, A07R060	Nos.	5	5					Foc
11063	B-19/5786	VALVE DISC (V-2-615)A23R032	Nos.	1	1					Foc
11064	B-19/5787	VALVE DISC (V-2-625)A23R033	Nos.	1	1					Foc
11065	B-19/5788	GASKET, (V-2-625)A23R034	Nos.	1	1					Foc
11066	B-19/5789	GASKET, (V-2-625)A23R035	Nos.	1	1					Foc
11067	B-19/5790	VALVE DISC (V-2-709)A23R036	Nos.	1	1					Foc
11068	B-19/5791	VALVE DISC (V-8-384)A23R037	Nos.	1	1					Foc
11069	B-19/5792	GASKET, (V-8-384)A23R038	Nos.	1	1					Foc
11070	B-19/5793	VALVE DISC (V-8-644)A23R039	Nos.	2	2					Foc
11071	B-19/5794	VALVE DISC (V-8-773)A23R040	Nos.	1	1					Foc

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11072	B-19/5795	VALVE DISC (V-8-797)A23R041	Nos.	1	1					Foc
11073	B-19/5796	VALVE DISC (V-8-566)A23R042	Nos.	2	2					Foc
11074	B-19/5797	GASKET, (V-8-615)A23R094	Nos.	1	1					Foc
11075	B-19/5798	GASKET, (V-2-615)A23R095	Nos.	1	1					Foc
11076	B-19/5799	GLAND PACKING, (V-2-625) A23R096	Nos.	1	1					Foc
11077	B-20/5800	GASKET, (V-2-709) A23R097	Nos.	2	2					Foc
11078	B-20/5801	GASKET, (V-2-709) A23R098	Nos.	2	2					Foc
11079	B-20/5802	GASKET, (V-8-644) A23R099	Nos.	2	2					Foc
11080	B-20/5803	GASKET, (V-8-709) A23R100	Nos.	2	2					Foc
11081	B-20/5804	GASKET, (V-8-797) A23R101	Nos.	2	2					Foc
11082	B-20/5805	GASKET, (V-8-566) A23R102	Nos.	4	4					Foc
11083	B-20/5806	GLAND PACKING, (V-2-615) A23R111	Nos.	1	1					Foc
11084	B-20/5808	GLAND PACKING, (V-8-384) A23R113	Nos.	1	1					Foc
11085	B-20/5809	GLAND PACKING, (V-8-644) A23R114	Nos.	1	1					Foc
11086	B-20/5810	GLAND PACKING, (V-8-773) A23R115	Nos.	1	1					Foc
11087	B-20/5811	GLAND PACKING, (V-8-797) A23R116	Nos.	1	1					Foc
11088	B-20/5812	GLAND PACKING, (V-8-566-567) A23R117	Nos.	2	2					Foc
11089	B-20/5814	O" RING, A23R126	Nos.	1	1					Foc
11090	B-20/5816	O" RING, A23R128	Nos.	1	1					Foc
11091	B-20/5819	O" RING, A23R131	Nos.	1	1					Foc
11092	B-20/5820	O" RING, (V-2-615) A23R132	Nos.	4	4					Foc
11093	B-20/5821	O" RING, (V-2-615) A23R133	Nos.	1	1					Foc
11094	B-20/5822	O" RING, (V-2-625) A23R134	Nos.	1	1					Foc
11095	B-20/5823	O" RING, (V-2-625) A23R135	Nos.	1	1					Foc
11096	B-20/5824	O" RING, (V-2-625) A23R136	Nos.	1	1					Foc
11097	B-20/5825	O" RING, (V-2-625) A23R137	Nos.	1	1					Foc
11098	B-20/5826	O" RING, (V-2-625) A23R138	Nos.	2	2					Foc
11099	B-20/5827	O" RING, (V-2-625) A23R139	Nos.	1	1					Foc
11100	B-20/5829	O" RING, (V-2-625) A23R141	Nos.	2	2					Foc
11101	B-20/5830	PISTON RING, (V-2-625) A23R142	Nos.	1	1					Foc
11102	B-20/5831	O" RING, (V-2-709) A23R143	Nos.	1	1					Foc
11103	B-20/5832	O" RING, (V-2-709) A23R144	Nos.	1	1					Foc

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11104	B-20/5834	O" RING, (V-2-709) A23R146	Nos.	1	1					Foc
11105	B-20/5835	O" RING, (V-2-709) A23R147	Nos.	2	2					Foc
11106	B-20/5836	O" RING, (V-2-709) A23R148	Nos.	1	1					Foc
11107	B-20/5837	O" RING, (V-2-709) A23R149	Nos.	1	1					Foc
11108	B-20/5838	O" RING, (V-2-709) A23R150	Nos.	1	1					Foc
11109	B-20/5839	O" RING, (V-8-384) A23R151	Nos.	1	1					Foc
11110	B-20/5841	O" RING, (V-8-384) A23R153	Nos.	1	1					Foc
11111	B-20/5842	O" RING, (V-8-384) A23R154	Nos.	1	1					Foc
11112	B-20/5843	O" RING, (V-8-384) A23R155	Nos.	1	1					Foc
11113	B-20/5844	O" RING, (V-8-384) A23R156	Nos.	1	1					Foc
11114	B-20/5845	O" RING, (V-8-384) A23R157	Nos.	4	4					Foc
11115	B-20/5846	O" RING, (V-8-384) A23R158	Nos.	2	2					Foc
11116	B-20/5847	O" RING, (V-8-384) A23R159	Nos.	1	1					Foc
11117	B-20/5848	O" RING, (V-8-384) A23R160	Nos.	2	2					Foc
11118	B-20/5849	O" RING, (V-8-384) A23R161	Nos.	1	1					Foc
11119	B-20/5850	O" RING, (V-8-644) A23R162	Nos.	1	1					Foc
11120	B-20/5851	O" RING, (V-8-644) A23R163	Nos.	1	1					Foc
11121	B-20/5852	O" RING, (V-8-644) A23R164	Nos.	1	1					Foc
11122	B-20/5853	O" RING, (V-8-644) A23R165	Nos.	1	1					Foc
11123	B-20/5854	O" RING, (V-8-644) A23R166	Nos.	2	2					Foc
11124	B-20/5855	O" RING, (V-8-644) A23R167	Nos.	1	1					Foc
11125	B-20/5856	O" RING, (V-8-773) A23R168	Nos.	1	1					Foc
11126	B-20/5857	O" RING, (V-8-773) A23R169	Nos.	1	1					Foc
11127	B-20/5858	O" RING, (V-8-773) A23R170	Nos.	1	1					Foc
11128	B-20/5859	O" RING, (V-8-773) A23R171	Nos.	1	1					Foc
11129	B-20/5860	O" RING, (V-8-773) A23R172	Nos.	1	1					Foc
11130	B-20/5861	O" RING, (V-8-773) A23R173	Nos.	1	1					Foc
11131	B-20/5862	O" RING, (V-8-797) A23R174	Nos.	1	1					Foc
11132	B-20/5864	O" RING, (V-8-797) A23R176	Nos.	1	1					Foc
11133	B-20/5865	O" RING, (V-8-797) A23R177	Nos.	1	1					Foc
11134	B-20/5866	O" RING, (V-8-797) A23R178	Nos.	2	2					Foc
11135	B-20/5867	O" RING, (V-8-797) A23R179	Nos.	1	1					Foc

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11136	B-20/5868	O" RING, (V-8-566) A23R180	Nos.	2	2					Foc
11137	B-20/5869	O" RING, (V-8-566) A23R181	Nos.	2	2					Foc
11138	B-20/5870	O" RING, (V-8-566) A23R182	Nos.	2	2					Foc
11139	B-20/5871	O" RING, (V-8-566) A23R183	Nos.	2	2					Foc
11140	B-20/5872	O" RING, (V-8-566) A23R184	Nos.	4	4					Foc
11141	B-20/5873	O" RING, (V-8-566-67) A23R185	Nos.	2	2					Foc
11142	B-20/5875	FILTER REGULATOR, A23R201	Nos.	1	1					Foc
11143	B-20/5877	SOLENOID VALVE, A23R203	Nos.	1	1					Foc
11144	B-20/5878	SOLENOID VALVE, A23R204	Nos.	1	1					Foc
11145	B-20/5881	HERME SEAL # 500, (1.0 KG.CAN)	Can	7	7					Foc
11146	B-20/5883	VALVE PACKING, B04M003	Roll	15	15					Foc
11147	B-20/5884	VALVE PACKING, B04M004	Nos.	16	16					Foc
11148	B-20/5885	VALVE PACKING, B04M005	Nos.	20	20					Foc
11149	B-20/5886	VALVE PACKING, B04M006	Nos.	14	14					Foc
11150	B-20/5887	VALVE PACKING, B04M007	Nos.	15	15					Foc
11151	B-20/5888	VALVE PACKING, B04M008	Nos.	24	24					Foc
11152	B-20/5889	VALVE PACKING, B04M009	Nos.	6	6					Foc
11153	B-20/5890	PRESSURE REDUCER, B04M011	Nos.	2	2					Foc
11154	B-20/5891	THERMO METER, B04M010	Nos.	2	2					Foc
11155	B-20/5892	ION EXCHANGER RESIN, B04M012	Nos.	4	4					Foc
11156	B-20/5893	GLASS FOR SIGHT FLOW, B04M024.	Nos.	30	30					Foc
11157	B-20/5895	FLEXIABLE HOSE WITH COUPLING, E10M018	Nos.	1	1					Foc
11158	B-20/5900	CARBON STEEL PIPE, A19M 3042.	Nos.	30	30					Foc
11159	B-20/5901	CARBON STEEL PIPE, A19M 3041	Nos.	2	2					Foc
11160	B-20/5902	CARBON STEEL PIPE, A19M 3016	Nos.	2	2					Foc
11161	B-20/5903	CARBON STEEL PIPE, A19M 3040	Nos.	2	2					Foc
11162	B-20/5904	CARBON STEEL PIPE, A19M 3015	Nos.	1	1					Foc
11163	B-20/5906	CARBON STEEL PIPE, A19M 3014	Nos.	2	2					Foc
11164	B-20/5907	CARBON STEEL PIPE, A19M 3031	Nos.	2	2					Foc
11165	B-20/5909	CARBON STEEL PIPE, A19M 3012	Nos.	1	1					Foc
11166	B-20/5910	CARBON STEEL PIPE, A19M 3029	Nos.	2	2					Foc
11167	B-20/5912	PRIMARY S.H. TUBE, A04R004.	Nos.	66	66					Foc

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11168	B-20/5913	PRIMARY S.H. TUBE II, A04R006.	Nos.	75	75					Foc
11169	B-20/5914	PRIMARY S.H. TUBE, A04R003	Nos.	30	30					Foc
11170	B-20/5915	SECONDRY S.H. TUBE, A04R005	Nos.	22	22					Foc
11171	B-20/5916	PRIMARY REHEATER TUBE, A04R016	Nos.	117	117					Foc
11172	B-20/5917	TUBE, A01R002.	Nos.	45	45					Foc
11173	B-20/5918	TUBE, A01R006	Nos.	77	77					Foc
11174	B-20/5919	TUBE, A01R004	Nos.	15	15					Foc
11175	B-20/5920	TUBE, A01R005	Nos.	2	2					Foc
11176	B-20/5921	TUBE, A01R003	Nos.	108	108					Foc
11177	B-20/5922	PRIMARY / F TUBE. A04R022	Nos.	16	16					Foc
11178	B-20/5923	TUBE, A01 R001	Nos.	21	21					Foc
11179	B-20/5924	PRIMARY REHEATER TUBE, A04R017	Nos.	17	17					Foc
11180	B-20/5925	PRIMARY REHEATER TUBE, A04R018	Nos.	20	20					Foc
11181	B-20/5926	CANSECTION WALL TUBE, A04 R001	Nos.	15	15					Foc
11182	B-20/5927	CANSECTION WALL TUBE, A04 R002	Nos.	21	21					Foc
11183	B-20/5928	M.S. VENT PIPE, A19R4001	Nos.	2	2					Foc
11184	B-20/5931	H,R. DRAIN PIPE, A19R4005	Nos.	2	2					Foc
11185	B-20/5932	C.R. VENT PIPE, A19R4003	Nos.	2	2					Foc
11186	B-20/5933	C,R. DRAIN PIPE, A19R4006	Nos.	2	2					Foc
11187	B-20/5934	PRIMARY FINAL S.H. TUBE, A04R008	Nos.	11	11					Foc
11188	B-20/5935	SECONDARY S.H. TUBE, A04 R009	Nos.	18	18					Foc
11189	B-20/5936	SECONDARY S.H. TUBE, A04 R011	Nos.	16	16					Foc
11190	B-20/5937	FINAL S.H. TUBE, A04 R012	Nos.	3	3					Foc
11191	B-20/59398	FINAL S.H. TUBE, A04 R007	Nos.	1	1					Foc
11192	B-20/5939	SECONDARY S.H. TUBE, A04 R010	Nos.	4	4					Foc
11193	B-20/5940	PRIMARY REHEATER TUBE, A04 R019	Nos.	4	4					Foc
11194	B-20/5941	PRIMARY REHEATER TUBE, A04 R020	Nos.	16	16					Foc
11195	B-20/5942	PRIMARY REHEATER TUBE, A04 R021	Nos.	2	2					Foc
11196	B-20/5943	FINAL REHEATER TUBE, A04 R023	Nos.	1	1					Foc
11197	B-20/5944	FINAL REHEATER TUBE, A04 R024	Nos.	5	5					Foc
11198	B-20/5945	FINAL S.H TUBE, A04 R013	Nos.	11	11					Foc
11199	B-20/5946	FINAL REHEATER TUBE, A04 R014	Nos.	10	10					Foc

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1	2	3	4	5	6	7	8	10	11	12
11200	B-20/5947	FINAL REHEATER TUBE, A04 R015	Nos.	10	10					Foc
11201	B-20/5948	TUBE, E01M002	Nos.	6	6					Foc
11202	B-20/5949	FINAL REHEATER TUBE, A04 R026	Nos.	8	8					Foc
11203	B-20/5950	TUBE, E01M001	Nos.	9	9					Foc
11204	B-20/5957	LAGGING A 05 M 026	Nos.	9	9					Foc
11205	B-20/5979	Carbon Steel Pipe	Nos.	1	1					Foc
11206	B-20/5984	LAGGING A 05 M 028	Nos.	7	7					Foc
11207	B-20/5987	TUBE, E01M003	Nos.	1	1					Foc
11208	B-20/5988	Gasket For Inspection Door E 01 M 004	Nos.	8	8					Foc
11209	B-20/5989	GLASS FOR INSPECTION DOOR, E01M005	Nos.	4	4					Foc
11210	B-20/5990	SPRING, E01M006	Nos.	2	2					Foc
11211	B-20/5991	PACKING, E01M008	Nos.	4	4					Foc
11212	B-20/5992	GASKET, E01M009	Nos.	1	1					Foc
11213	B-20/5993	GLAND PACKING, E01M010	Nos.	1	1					Foc
11214	B-20/5994	GASKET, E01M011	Nos.	1	1					Foc
11215	B-20/5995	GASKET, E01M013	Nos.	1	1					Foc
11216	B-20/5996	GLAND PACKING, E01M014	Nos.	1	1					Foc
11217	B-20/5997	GASKET, E01M015	Nos.	1	1					Foc
11218	B-20/5998	GLAND PACKING, E01M016	Nos.	5	5					Foc
11219	B-20/5999	GASKET, E01M017	Nos.	1	1					Foc
11220	B-20/6000	GASKET, E01M019	Nos.	1	1					Foc
11221	B-21/6201	GLAND PACKING, E01M020	Nos.	5	5					Foc
11222	B-21/6201A	GASKET, E01M021	Nos.	1	1					Foc
11223	B-21/6202	GLAND PACKING, E01M022	Nos.	5	5					Foc
11224	B-21/6202A	GASKET, E01M023	Nos.	1	1					Foc
11225	B-21/6203	GLAND PACKING, E01M024	Nos.	5	5					Foc
11226	B-21/6203A	GASKET, E01M025	Nos.	1	1					Foc
11227	B-21/6204	GLAND PACKING, E01M026	Nos.	5	5					Foc
11228	B-21/6204A	GASKET, E01M027	Nos.	1	1					Foc
11229	B-21/6205	GLAND PACKING, E01M028	Nos.	5	5					Foc
11230	B-21/6205A	GASKET, E01M029	Nos.	1	1					Foc
11231	B-21/6206	GLAND PACKING, E01M030	Nos.	5	5					Foc

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11232	B-21/6206A	GASKET, E01M031	Nos.	1	1					Foc
11233	B-21/6207	GLAND PACKING, E01M032	Nos.	5	5					Foc
11234	B-21/6207A	GASKET, E01M033	Nos.	1	1					Foc
11235	B-21/6208	GLAND PACKING, E01M034	Nos.	5	5					Foc
11236	B-21/6208A	GASKET, E01M035	Nos.	1	1					Foc
11237	B-21/6209	GLAND PACKING, E01M036	Nos.	5	5					Foc
11238	B-21/6209A	GASKET, E01M037	Nos.	1	1					Foc
11239	B-21/6210	GLAND PACKING, E01M038	Nos.	5	5					Foc
11240	B-21/6210A	GASKET, E01M039	Nos.	1	1					Foc
11241	B-21/6211	GLAND PACKING, E01M040	Nos.	5	5					Foc
11242	B-21/6211A	GASKET, E01M041	Nos.	1	1					Foc
11243	B-21/6212	GLAND PACKING, E01M042	Nos.	5	5					Foc
11244	B-21/6212A	GASKET, E01M043	Nos.	1	1					Foc
11245	B-21/6213	GLAND PACKING, E01M044	Nos.	5	5					Foc
11246	B-21/6213A	GASKET, E01M045	Nos.	1	1					Foc
11247	B-21/6214	GASKET, E01M047	Nos.	2	2					Foc
11248	B-21/6214A	GLAND PACKING, E01M048	Nos.	2	2					Foc
11249	B-21/6215	GASKET, E01M049	Nos.	2	2					Foc
11250	B-21/6215A	GLAND PACKING, E01M050	Nos.	2	2					Foc
11251	B-21/6217A	NEEDLE VALVE, E01M054	Nos.	1	1					Foc
11252	B-21/6221	GATE VALVE, E01M062	Nos.	1	1					Foc
11253	B-21/6222	GLOBE VALVE, E01M064	Nos.	1	1					Foc
11254	B-21/6223	GLOBE VALVE, E01M066	Nos.	1	1					Foc
11255	B-21/6224	SWING CHECK VALVE, E01M069	Nos.	1	1					Foc
11256	B-21/6226A	GLAND PACKING, E01M074	Nos.	4	4					Foc
11257	B-21/6227	BONNET GASKET, E01M075	Nos.	2	2					Foc
11258	B-21/6227A	DIAPHRAGM, E01M076	Nos.	1	1					Foc
11259	B-21/6228	DIAPHRAGM, E01M077	Nos.	1	1					Foc
11260	B-21/6228A	VALVE SPRING, E01M078	Nos.	2	2					Foc
11261	B-21/6229	GASKET, E01M080	Nos.	2	2					Foc
11262	B-21/6229A	MECHANICAL SEAL FOR PUMP. E01M082	Nos.	2	2					Foc
11263	B-21/6230	O" RING OIL PUMP. E01M083	Nos.	2	2					Foc

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11264	B-21/6231A	GLAND PACKING, . E01M086	Nos.	6	6					Foc
11265	B-21/62331	OIL BURNER, E01M087	Nos.	2	2					Foc
11266	B-21/6232A	RELAY FOR STATOR PANNEL, E01M090	Nos.	1	1					Foc
11267	B-21/6233	PILOT LAMP, E01M092	Nos.	8	8					Foc
11268	B-21/6234	LAMP BULB, E01M093.	Nos.	8	8					Foc
11269	B-21/6234A	FUSE FOR ANNUNCIATOR E01M094	Nos.	2	2					Foc
11270	B-21/6235	FUSE FOR CENTRAL SOURCE, E01M095	Nos.	10	10					Foc
11271	B-21/6235A	RELAY TRANSMITTER, E01M096	Nos.	1	1					Foc
11272	B-21/6236	LIMIT SWITCH, E01M097	Nos.	1	1					Foc
11273	B-21/6236A	PUSH BUTTON SWITCH, E01M098	Nos.	1	1					Foc
11274	B-21/6238A	GLAND PACKING, E01M102	Nos.	4	4					Foc
11275	B-21/6239	GLAND PACKING, E01M103	Nos.	4	4					Foc
11276	B-21/6239A	PACKING, E01M104	Nos.	2	2					Foc
11277	B-21/6240	PACKING, E01M105	Nos.	2	2					Foc
11278	B-21/6240A	FULL COUPLING, A19M-3222	Nos.	2	2					Foc
11279	B-21/6245A	BELT CONVIER, B-13-01	Nos.	5	5					Foc
11280	B-21/6246	BELT CONVIER, B-13-02	Nos.	1	1					Foc
11281	B-21/6246A	ENGINE BRACKET, B-13-3	Nos.	5	5					Foc
11282	B-21/6247	ENGINE BRACKET, B-13-4 (Stand)	Nos.	1	1					Foc
11283	B-21/6247A	PART IN CATAN CASE, B-13-5	Nos.	6	6					Foc
11284	B-21/6248	V-BELT, F42 B13-6 (BBFFrom 6252A)	Nos.	16	16					Foc
11285	B-21/6248	V-BELT, B-67 B13-7	Nos.	16	16					Foc
11286	B-21/6249	V-PULLY, A2 B13-8 (Fitted With Stand)	Nos.	6	6					Foc
11287	B-21/6249A	V-PULLY, 12B2, B13-9	Nos.	6	6					Foc
11288	B-21/6250	V-BELT, B13-10	Nos.	6	6					Foc
11289	B-21/6250A	V-BELT COVER, B13-11	Nos.	6	6					Foc
11290	B-21/6251	CHANEL B13-12	Nos.	12	12					Foc
11291	B-21/6251A	V-BELT COVER BRACKET, B-13-13	Nos.	6	6					Foc
11292	B-21/6252	SPARE PARTS IN CORTON, B13-14	Nos.	1	1					Foc
11293	B-21/6253A	ENGINE EY-18-3B B-13-17	Nos.	6	6					Foc
11294	B-21/6293	A.8" BASKET A07001	Nos.	4	4					Foc
11295	B-21/6293A	B" BASKET A07 008	Nos.	3	3					Foc

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11296	B-21/6294	E" BASKET A07 M016	Nos.	1	1					Foc
11297	B-21/6295	WELDING ROD, F102-1	Pkt.	1	1					Foc
11298	B-21/6295A	WELDING ROD, F102-2	Pkt.	2	2					Foc
11299	B-21/6296	WELDING ROD, F102-3	Pkt.	1	1					Foc
11300	B-21/6297	WELDING ROD, F102-5	Pkt.	1	1					Foc
11301	B-21/6298	BASKET FOR BOILER FURNACE, F-104-1	Nos.	20	20					Foc
11302	B-21/6299	PACKING FOR INSPECTION DOOR A04-3	Roll	1	1					Foc
11303	B-21/6299A	PACKING, F105-01	Nos.	3	3					Foc
11304	B-21/6300	PACKING, F105-02	Nos.	22	22					Foc
11305	B-21/6300A	PACKING, F105-03	Nos.	18	18					Foc
11306	B-22/12803	GASKET, F105-08	Nos.	1	1					Foc
11307	B-22/12803A	PACKING, F105-09	Nos.	21	21					Foc
11308	B-22/12804	GASKET RING, F105-10	Nos.	4	4					Foc
11309	B-22/12806	GASKET RING, F105-14	Nos.	6	6					Foc
11310	B-22/12806A	GASKET RING, F105-15	Nos.	1	1					Foc
11311	B-22/12807	GASKET RING, F105-16	Nos.	2	2					Foc
11312	B-22/12807A	PACKING, F106-01	Nos.	3	3					Foc
11313	B-22/12808	PACKING, F106-02	Set	2	2					Foc
11314	B-22/12808A	PACKING, F106-03	Nos.	5	5					Foc
11315	B-22/12809A	GASKET RING, 900-FG-50A, F106-05	Nos.	2	2					Foc
11316	B-22/12810	SEAT PACKING, 600-GL-50A, F106-06	Nos.	2	2					Foc
11317	B-22/12810A	PACKING, 600-GL-50A, F-106-07	Nos.	2	2					Foc
11318	B-22/12811	PACKING, 900-GL-50A, F-106-08	Nos.	2	2					Foc
11319	B-22/12811A	SEAT PACKING, 900-GL-50A, F106-09	Nos.	2	2					Foc
11320	B-22/12812	GASKET, 600-GL-50A, F106-10	Nos.	1	1					Foc
11321	B-22/12813A	SEAL RING, 7000-WG-80A, F108-02	Nos.	1	1					Foc
11322	B-22/12814	PACKING, 300WG 80A F108-03	Nos.	2	2					Foc
11323	B-22/12817	GASKET, 150-WG- 100A, F108-09	Nos.	1	1					Foc
11324	B-22/12818	GASKET, F-111-09	Nos.	3	3					Foc
11325	B-22/12819	GASKET, F-111-10	Nos.	3	3					Foc
11326	B-22/12819A	GASKET, F-111-11	Nos.	3	3					Foc
11327	B-22/12822	O" RING FOR R.O TRANSFER PUMP, F112. 04	Nos.	1	1					Foc

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11328	B-22/12822A	O" RING FOR R.O TRANSFER PUMP, F112. 05	Nos.	1	1					Foc
11329	B-22/12824	ARANEL PACKING, F-113-2	Nos.	32	32					Foc
11330	B-22/12824A	PACKING, F-113-3	Nos.	18	18					Foc
11331	B-22/12829	GASKET, F-117-02	Nos.	2	2					Foc
11332	B-22/12830A	GASKET, F-114-03	Nos.	18	18					Foc
11333	B-22/12832A	GASKET, 600-GL-25A F-108-15	Nos.	1	1					Foc
11334	B-22/12834A	PACKING FOR AIR SEAL, F-109-3	Nos.	4	4					Foc
11335	B-22/12836	O" RING FOR GEAR COUPLING, F-109-6	Nos.	3	3					Foc
11336	B-22/12838	PACKING FOR AIR SEAL, F-109B-3	Nos.	4	4					Foc
11337	B-22/12840	O" RING F-111-01	Nos.	2	2					Foc
11338	B-22/12840A	O" RING F-111-02	Nos.	2	2					Foc
11339	B-22/12841	O" RING F-111-03	Nos.	5	5					Foc
11340	B-22/12841A	O" RING F-111-04	Nos.	2	2					Foc
11341	B-22/12842	O" RING F-111-05	Nos.	2	2					Foc
11342	B-22/12843	PACKING RING, F-111-07	Nos.	2	2					Foc
11343	B-22/12843A	GASKET, F-111-8	Nos.	3	3					Foc
11344	B-22/12845	GASKET, F-114-6	Nos.	36	36					Foc
11345	B-22/12846	O" RING, F-114-08	Nos.	2	2					Foc
11346	B-22/12846A	O" RING, F-114-09	Nos.	2	2					Foc
11347	B-22/12850	FLEXIABLE HOSE PIPE, FIX-001	Nos.	28	28					Foc
11348	B-22/12851	BASKET, 5K-80-RF	Nos.	120	120					Foc
11349	B-22/12853	TUBE, DIA=50-BX-291-E-01M-001	Nos.	6	6					Foc
11350	B-22/12853A	TUBE, DIA=50-B-3.2F	Nos.	6	6					Foc
11351	B-22/12854A	GAS CYLINDER	Nos.	1	1					Foc
11352	B-22/12858A	MECHANICAL SEAL FOR PUMP, A15M-011	Nos.	4	4					Foc
11353	B-22/12859	GASKET FOR RESIDUAL OIL HEATER , A15M-001	Nos.	2	2					Foc
11354	B-22/12859A	GASKET FOR RESIDUAL OIL HEATER , A15M-002	Nos.	2	2					Foc
11355	B-22/12860	TUBE FOR RESIDUAL OIL HEATER , A15M-003A	Nos.	4	4					Foc
11356	B-22/12860A	TUBE FOR RESIDUAL OIL HEATER , A15M-003B	Nos.	4	4					Foc
11357	B-22/12861	TUBE FOR RESIDUAL OIL HEATER , A15M-003C	Nos.	4	4					Foc
11358	B-22/12861A	TUBE FOR RESIDUAL OIL HEATER , A15M-003D	Nos.	4	4					Foc
11359	B-22/12862	TUBE FOR RESIDUAL OIL HEATER , A15M-003E	Nos.	4	4					Foc

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11360	B-22/12862A	TUBE FOR RESIDUAL OIL HEATER , A15M-003F	Nos.	4	4					Foc
11361	B-22/12863	TUBE FOR RESIDUAL OIL HEATER , A15M-003G	Nos.	4	4					Foc
11362	B-22/12863A	TUBE FOR RESIDUAL OIL HEATER , A15M-003H	Nos.	4	4					Foc
11363	B-22/12864	TUBE FOR RESIDUAL OIL HEATER , A15M-003 I	Nos.	4	4					Foc
11364	B-22/128664A	TUBE FOR RESIDUAL OIL HEATER , A15M-003J	Nos.	3	3					Foc
11365	B-22/12865	TUBE FOR RESIDUAL OIL HEATER , A15M-003K	Nos.	3	3					Foc
11366	B-22/12865A	TUBE FOR RESIDUAL OIL HEATER , A15M-003L	Nos.	3	3					Foc
11367	B-22/12866	TUBE FOR RESIDUAL OIL HEATER , A15M-003M	Nos.	3	3					Foc
11368	B-22/12866A	TUBE FOR RESIDUAL OIL HEATER , A15M-003N	Nos.	3	3					Foc
11369	B-22/12867	TUBE FOR RESIDUAL OIL HEATER , A15M-003O	Nos.	2	2					Foc
11370	B-22/12867A	TUBE FOR RESIDUAL OIL HEATER , A15M-003P	Nos.	2	2					Foc
11371	B-22/12868	TUBE FOR RESIDUAL OIL HEATER , A15M-003Q	Nos.	1	1					Foc
11372	B-22/12869	PRESSURE TRANSMITTER, A20M-002	Nos.	1	1					Foc
11373	B-22/12869A	PRESSURE TRANSMITTER, A20M-003	Nos.	1	1					Foc
11374	B-22/12870A	DIFFERENTIAL PRESSURE TRANSMITTER, A20M-005	Nos.	1	1					Foc
11375	B-22/12871A	FLOW TRANSMITTER, A20M-007	Nos.	1	1					Foc
11376	B-22/12872A	FLOW TRANSMITTER, A20M-010	Nos.	1	1					Foc
11377	B-22/12873	FLOW TRANSMITTER, A20M-011	Nos.	1	1					Foc
11378	B-22/12873A	FLOW TRANSMITTER, A20M-012	Nos.	1	1					Foc
11379	B-22/12874	FLOW TRANSMITTER, A20M-013	Nos.	1	1					Foc
11380	B-22/12883	POWER SUPPLY FOR ABC CABINET, A20M-065A	Nos.	1	1					Foc
11381	B-22/12884A	SPAN GAS CYLINDER, A20M-187	Nos.	1	1					Foc
11382	B-22/12885	AIR SET FOR SAMPLING PANNEL, A20M-188	Nos.	1	1					Foc
11383	B-22/12886	ZERO GAS CYLINDER A20M-190	Nos.	1	1					Foc
11384	B-22/12892A	CONTROL UNIT FOR CONTROLE, A20M-218	Nos.	1	1					Foc
11385	B-22/12893	RESTRICTION UNIT FOR CONTROLLER, A20M-219.	Nos.	1	1					Foc
11386	B-22/12893A	RESTRICTION UNIT FOR CONTROLLER, A20M-220	Nos.	1	1					Foc
11387	B-22/12894A	PRESSURE SWITCH, A20M-223	Nos.	1	1					Foc
11388	B-22/12895	PRESSURE SWITCH, A20M-224	Nos.	1	1					Foc
11389	B-22/12895A	PRESSURE SWITCH, A20M-225	Nos.	1	1					Foc
11390	B-22/12896A	PRESSURE SWITCH, A20M-227	Nos.	1	1					Foc
11391	B-22/12897	PRESSURE SWITCH, A20M-228	Nos.	1	1					Foc

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11392	B-22/12897A	PRESSURE SWITCH, A20M-229	Nos.	1	1					Foc
11393	B-22/12898	PRESSURE SWITCH, A20M-230A	Nos.	1	1					Foc
11394	B-23/14403	FILTER, A20M-184A.	Nos.	1	1					Foc
11395	B-23/14403A	PUMP, A20M-184B	Nos.	1	1					Foc
11396	B-23/14404	COLLER, A20M-184C	Nos.	1	1					Foc
11397	B-23/14404A	SOLENOID VALVE, A20M-184D	Nos.	1	1					Foc
11398	B-23/14405	SOLENOID VALVE, A20M-184E	Nos.	1	1					Foc
11399	B-23/14405A	NEEDLE VALVE, A20M-184F	Nos.	1	1					Foc
11400	B-23/14406	FLOWER METER, A20M-184G	Nos.	1	1					Foc
11401	B-23/14406A	FILTER,, A20M-184H	Nos.	1	1					Foc
11402	B-23/14407	FILTER ELEMENT, A20M-148	Nos.	5	5					Foc
11403	B-23/14408	PRESSURE SWITCH, A20M, 230B	Nos.	1	1					Foc
11404	B-23/14409	DIFFERENTIAL PRESSURE SWITCH, A20M, 230D	Nos.	1	1					Foc
11405	B-23/14411	DIFFERENTIAL PRESSURE TRANSMITTER, A20M, 006C	Nos.	1	1					Foc
11406	B-23/14412A	SEAT PACKING, A04M-006.1	Nos.	2	2					Foc
11407	B-23/14413	GASKET FOR CONTROL VALVE, A04M-006-2	Nos.	4	4					Foc
11408	B-23/14414	FIREFLEX FELT-011	Nos.	12	12					Foc
11409	B-23/14414A	FIREFLEX FELT-012	Nos.	5	5					Foc
11410	B-23/14415	PRESSURE TRANSMITTER. A20M-006B	Nos.	1	1					Foc
11411	B-23/14416	VALVE ASSY, B03M-008	Nos.	2	2					Foc
11412	B-23/14417	VALVE SEAT, B03M-010	Nos.	4	4					Foc
11413	B-23/14417A	BASKET,, B03M-011	Nos.	7	7					Foc
11414	B-23/14418	GASKET,, B03M-012	Nos.	1	1					Foc
11415	B-23/14418A	VALVE PACKING AND GASKET, B-03M-013	Nos.	10	10					Foc
11416	B-23/14419	VALVE PACKING AND GASKET, B-03M-014	Nos.	10	10					Foc
11417	B-23/14419A	VALVE PACKING AND GASKET, B-03M-015	Nos.	2	2					Foc
11418	B-23/14420	VALVE PACKING AND GASKET, B-03M-016	Nos.	2	2					Foc
11419	B-23/14420A	VALVE PACKING AND GASKET, B-03M-017	Nos.	1	1					Foc
11420	B-23/14421	VALVE PACKING AND GASKET, B-03M-018	Nos.	1	1					Foc
11421	B-23/14421A	VALVE PACKING AND GASKET, B-03M-019	Nos.	2	2					Foc
11422	B-23/14422	VALVE PACKING AND GASKET, B-03M-020	Nos.	14	14					Foc

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11423	B-23/14422A	VALVE PACKING AND GASKET, B-03M-021	Nos.	14	14					Foc
11424	B-23/14423	VALVE PACKING AND GASKET, B-03M-022	Nos.	3	3					Foc
11425	B-23/14423A	VALVE PACKING AND GASKET, B-03M-023	Nos.	3	3					Foc
11426	B-23/14424	VALVE PACKING AND GASKET, B-03M-024	Nos.	1	1					Foc
11427	B-23/14424A	VALVE PACKING AND GASKET, B-03M-025	Nos.	1	1					Foc
11428	B-23/14425	VALVE PACKING AND GASKET, B-03M-026	Nos.	5	5					Foc
11429	B-23/14425A	VALVE PACKING AND GASKET, B-03M-027	Nos.	5	5					Foc
11430	B-23/14426	VALVE PACKING AND GASKET, B-03M-028	Nos.	10	10					Foc
11431	B-23/14426A	VALVE PACKING AND GASKET, B-03M-029	Nos.	1	1					Foc
11432	B-23/14427	VALVE PACKING AND GASKET, B-03M-030	Nos.	1	1					Foc
11433	B-23/14427A	VALVE PACKING AND GASKET, B-03M-031	Nos.	1	1					Foc
11434	B-23/14428	VALVE PACKING AND GASKET, B-03M-032	Nos.	1	1					Foc
11435	B-23/14428A	VALVE PACKING AND GASKET, B-03M-033	Nos.	4	4					Foc
11436	B-23/14429A	VALVE PACKING AND GASKET, B-03M-034	Nos.	3	3					Foc
11437	B-23/14430	VALVE PACKING AND GASKET, B-03M-035	Nos.	3	3					Foc
11438	B-23/14430A	VALVE PACKING AND GASKET, B-03M-036	Nos.	3	3					Foc
11439	B-23/14431	VALVE PACKING AND GASKET, B-03M-037	Nos.	1	1					Foc
11440	B-23/14431A	VALVE PACKING AND GASKET, B-03M-038	Nos.	3	3					Foc
11441	B-23/14432	VALVE PACKING AND GASKET, B-03M-039	Nos.	1	1					Foc
11442	B-23/14432A	VALVE PACKING AND GASKET, B-03M-040	Nos.	1	1					Foc
11443	B-23/14433	VALVE PACKING AND GASKET, B-03M-041	Nos.	1	1					Foc
11444	B-23/14433A	VALVE PACKING AND GASKET, B-03M-042	Nos.	1	1					Foc
11445	B-23/14434	VALVE PACKING AND GASKET, B-03M-043	Nos.	1	1					Foc
11446	B-23/14434A	VALVE PACKING AND GASKET, B-03M-044	Nos.	1	1					Foc
11447	B-23/14435	VALVE PACKING AND GASKET, B-03M-045	Nos.	1	1					Foc
11448	B-23/14435A	VALVE PACKING AND GASKET, B-03M-046	Nos.	1	1					Foc
11449	B-23/14436	VALVE PACKING AND GASKET, B-03M-047	Nos.	1	1					Foc
11450	B-23/14436A	VALVE PACKING AND GASKET, B-03M-048	Nos.	1	1					Foc
11451	B-23/14437	VALVE PACKING AND GASKET, B-03M-049	Nos.	1	1					Foc
11452	B-23/14437A	CONTROL PLUG WITH STEM, A24R-001	Nos.	1	1					Foc
11453	B-23/14438	CONTROL PLUG WITH STEM, A24R-002	Nos.	1	1					Foc
11454	B-23/14438A	THURTRING WITH O RING, A24R-016	Nos.	3	3					Foc

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1	2	3	4	5	6	7	8	10	11	12
11455	B-23/14439	THURTRING WITH O RING, A24R-017	Nos.	3	3					Foc
11456	B-23/14440A	LIP SEAL, A24R-020	Nos.	3	3					Foc
11457	B-23/14441	THURSTING WITH O RING, A24R-021	Nos.	3	3					Foc
11458	B-23/14441A	PRESSURE TRANSMITTER, A20R-001	Nos.	1	1					Foc
11459	B-23/14442	PRESSURE TRANSMITTER, A20R-002	Nos.	1	1					Foc
11460	B-23/14442A	PRESSURE TRANSMITTER, A20R-003	Nos.	1	1					Foc
11461	B-23/14443	PRESSURE TRANSMITTER, A20R-004	Nos.	1	1					Foc
11462	B-23/14443A	DIFF: PRESSURE TRANSMITTER, A20R-005	Nos.	1	1					Foc
11463	B-23/14444	DIFF: PRESSURE TRANSMITTER, A20R-006	Nos.	1	1					Foc
11464	B-23/14444A	CAPSULE ASSEMBLY, A20R-007.	Nos.	1	1					Foc
11465	B-23/14445	CAPSULE ASSEMBLY, A20R-009	Nos.	1	1					Foc
11466	B-23/14445A	CAPSULE ASSEMBLY, A20R-010	Nos.	1	1					Foc
11467	B-23/14446	FLOW TRANSMITTER, A20R-0011	Nos.	1	1					Foc
11468	B-23/14446A	LEVEL TRANSMITTER, A20R-031	Nos.	2	2					Foc
11469	B-23/14447	LEVEL TRANSMITTER, A20R-032	Nos.	2	2					Foc
11470	B-23/14461	INFRARED GAS ANALYZER, A20R-094	Nos.	1	1					Foc
11471	B-23/14461A	AUTOMATIC CALIBRATOR, A20R-095	Nos.	1	1					Foc
11472	B-23/14462	COMPANSATOR FOR SAMPLING PANNEL, A20R-096	Nos.	1	1					Foc
11473	B-23/14463A	FLOW SETTING UNIT, A20R-099	Nos.	1	1					Foc
11474	B-23/14464	DIFF: PRESSURE TRANSMITTER, A20R-006C	Nos.	1	1					Foc
11475	B-23/14465A	PRESSURE TRANSMITTER, A20R-006B	Nos.	1	1					Foc
11476	B-23/14467A	PROBE FOR DIGITAL THERMOMETER, 247A	Nos.	1	1					Foc
11477	B-23/14468	PROBE FOR DIGITAL THERMOMETER, 247B	Nos.	1	1					Foc
11478	B-23/14469	CONDUCTING CELL, B-04-R-002	Nos.	3	3					Foc
11479	B-23/14469A	CONDUCTING CELL, B-04-R-003	Nos.	1	1					Foc
11480	B-23/14471	PH-ANALYZER, B-04 R-0015	Nos.	1	1					Foc
11481	B-23/14478A	DISC SET, A04M-001a	Nos.	1	1					Foc
11482	B-23/14479	STEM COLLER, A04M-001b	Nos.	3	3					Foc
11483	B-23/14480	STEM COLLER, A04M-001b	Nos.	2	2					Foc
11484	B-23/14480A	DISC SET, A04M-002a	Nos.	3	3					Foc
11485	B-23/14481	STEM COLLER, A04M-002b	Nos.	4	4					Foc

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1	2	3	4	5	6	7	8	10	11	12
11486	B-23/14481A	DISC SET, A04M-003a	Nos.	2	2					Foc
11487	B-23/14482	STEM COLLER, A04M-003b	Nos.	2	2					Foc
11488	B-23/14482A	DISC SET, A04M-004+A04M-005	Nos.	2	2					Foc
11489	B-23/14483	LIMIT SWITCH, A20M-217A	Nos.	1	1					Foc
11490	B-23/14484A	NOZZLE PACKING, A24-007	Nos.	36	36					Foc
11491	B-23/14485	NOZZLE PACKING, A24-003	Nos.	18	18					Foc
11492	B-23/14486	PR SEAL GASKET, A24R-011	Nos.	3	3					Foc
11493	B-23/14487	PR SEAL GASKET, A24R-014	Nos.	3	3					Foc
11494	B-23/14488	TRANSED CIRCUIT CARD, A24R-023.	Nos.	1	1					Foc
11495	B-23/14489	TRANSED CIRCUIT CARD, A24R-026.	Nos.	1	1					Foc
11496	B-23/14489A	SPECIAL TOOL BOX,	Nos.	1	1					Foc
11497	B-23/14491	HARD SETTING CEMENT 50 KG	KG	4	4					Foc
11498	B-23/14492	INSULATING CEMENT	Nos.	23	23					Foc
11499	B-23/14493A	PIPE RACK FRAME,	Nos.	6	6					Foc
11500	B-23/14494	REFRACTORY DRUM (FULL) 320 KG EACH.	KG	12	12					Foc
11501	B-23/14495	RESION IRON EXCHANGER,	Can	3	3					Foc
11502	B-23/14495A	PBS-K POIL 193	Can	2	2					Foc
11503	B-23/14496	OIL, T-68	Can	1	1					Foc
11504	B-23/14497	OIL OMELA, 220 LITRE	Nos.	1	1					Foc
11505	B-23/14497A	OIL OMELA, 460, 220 LITRE	Can	1	1					Foc
11506	B-23/14498	CORENA, N-100. 210 LITER	Can	1	1					Foc
11507	B-23/14498A	TURBINE OIL 46, 210 LITER	Can	1	1					Foc

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PHYSICAL STOCK VERIFICATION REPORT OF STORE-III JPCL GENCO-I JAMSHORO

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1	01-1024-0034	Meassuring Tape 100FT Cloth/Non Metalic China	Nos	1	1					
2	01-1024-0044	Soldring Iron 45W,	Nos	2	2					
3	01-1024-0045	Soldring Iron 100W, 220V	Nos	1	1					
4	01-1024-0051	Lock Piler Straight 6"	Nos	5	5					
5	01-1024-0086	Lock Plier-Shaight type insulated Size-6"	Nos	6	6					
6	01-1024-0116	Multi Amp:Relay Testing Instrument S.No.19798 (NTPS Material)	Set	1	1					
7	01-1024-0118	Top Die Set 1/4" to 1" (NTPS Material)	Set	1	1					
8	01-1024-0178	Brushes (Tube Clearing Brush 14mm Round Steel)	Nos	27	27					
9	01-1024-0206	First Aid Box	Nos	1	1					
10	02-1010-0004	Over load Relay 380 V 50Hz	Nos	26	26					
11	02-1010-0005	Over load Relay 380 V 50Hz 2.4 A	Nos	24	24					
12	02-1010-0006	Over load Relay 380 V 50Hz 4.5A	Nos	14	14					
13	02-1010-0007	Over Load Relay 380V 50Hz 4.6A	Nos	13	13					
14	02-1010-0012	Over Load Realy Thermal Relay 1638ov:50Hz	Nos	3	3					
15	02-1010-0016	Relay	Nos	33	33					Foc
16	02-1010-0017	Relay	Nos	8	8					Foc
17	02-1010-0018	Time Log Relay JEC-174E	Nos	12	12					Foc
18	02-1010-0019	Relay	Nos	2	2					Foc
19	02-1010-0025	Trimenal Plate Doubel Stend	Nos	180	180					Foc
20	02-1010-0026	Resistance ZX-9.2/14	Nos	1	1					
21	02-1010-0027	Quick SRC plate Resistor KK220	Nos	3	3					
22	02-1010-0028	SCR KP 600V 15A	Nos	3	3					
23	02-1010-0029	Silicon Rectifier Plate ZQ 500A	Nos	3	3					
24	02-1010-0030	Silicon Plate ZP 200A	Nos	1	1					
25	02-1010-0031	Magnetic Amplifier CE-1	Nos	1	1					
26	02-1010-0032	Magnetic Amplifier CF-2	Nos	1	1					
27	02-1010-0033	Capacitor CEJD 2A 10/KOV	Nos	3	3					
28	02-1010-0034	Capacitor CAJP 2A-20 160V	Nos	3	3					
29	02-1010-0036	DC Voltage meter 16 C-2A	Nos	1	1					
30	02-1010-0037	DC meter 10 C-2A	Nos	1	1					
31	02-1010-0039	Time Relay BS12A /220A	Nos	2	2					
32	02-1010-0040	Time Relay BS24 / 220V	Nos	1	1					
33	02-1010-0041	Possitive Sequiency Voltage BZY-1	Nos	1	1					
34	02-1010-0044	DC Contractor CJQ-40 CA	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
35	02-1010-0045	Auxilary Relay BZ52/22, 12v	Nos	1	1					
36	02-1010-0046	Auxilary Relay BZ51/22	Nos	6	6					
37	02-1010-0047	DC Current meter 16C 2A	Nos	1	1					
38	02-1010-0049	Differencial Relay LCD-11.1A	Nos	1	1					
39	02-1010-0051	Over Current relay DL-2PC/06.50HZ	Nos	5	5					
40	02-1010-0052	Exitator system relay LD-9 220V	Nos	2	2					
41	02-1010-0053	Exitator system relay LD-9 220V	Nos	1	1					
42	02-1010-0056	Reverse Power relay LSG-15A	Nos	1	1					
43	02-1010-0057	Generator Starter relay LD7 100 V	Nos	2	2					
44	02-1010-0058	Generator Balance Relay Lb5 - 100 V	Nos	1	1					
45	02-1010-0061	Generator Loss Relay LDC-2AC	Nos	2	2					
46	02-1010-0064	Voltage Relay DY-6 - 28C / 160	Nos	2	2					
47	02-1010-0065	Voltage Relay 28C / 160	Nos	1	1					
48	02-1010-0066	Generator main switch Relay LS.6	Nos	1	1					
49	02-1010-0069	Time delay relay DS 22C 220V	Nos	1	1					
50	02-1010-0071	Auxillary Relay ZJ3 C 18 220V	Nos	15	15					
51	02-1010-0072	Auxillary Relay	Nos	2	2					Foc
52	02-1010-0075	Auxillary relay DZ 31 B 110 V	Nos	2	2					
53	02-1010-0076	Signal Relay DX 155 - 50 - 05A	Nos	4	4					
54	02-1010-0080	Signal Relay DX-513/0.1A	Nos	3	3					
55	02-1010-0081	Connect relay DC 21 C - 2	Nos	2	2					
56	02-1010-0082	Negution Sequency relay LEY-18	Nos	1	1					
57	02-1010-0083	Voltage Relay DY-21 - 60A	Nos	2	2					
58	02-1010-0084	Time relay 2J3 DC / 18 - 5A	Nos	6	6					
59	02-1010-0085	KWH Transducer CJ1 - 0.-10	Nos	2	2					
60	02-1010-0086	Current AC Transducer CJ101	Nos	2	2					
61	02-1010-0088	Var Transducer CJD 123 5 A	Nos	2	2					
62	02-1010-0089	Voltage Transducer 02-10	Nos	1	1					
63	02-1010-0090	Frequency transducer CTE 1 - 130 - 210V	Nos	1	1					
64	02-1010-0091	DC Current Transducer PS 180 - 210A	Nos	2	2					
65	02-1010-0092	Thermo Switch 180 C - 60 -90	Nos	2	2					
66	02-1010-0093	Thermo Switch SW9 45 C - 60 -110	Nos	2	2					
67	02-1010-0094	Thermo Switch SW 0250C - 60 -30	Nos	2	2					
68	02-1010-0096	RLY 120 AC OL - DY 1.6	Nos	1	1					
69	02-1010-0097	CNTRL and Trigger Assy 3 PH	Nos	2	2					
70	02-1010-0098	PC 75 Driver Board DRY	Nos	2	2					

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71	02-1010-0099	AC 20 - 62010 . 0A KAZIO	Nos	2	2					
72	02-1010-0101	Resister RN 60D / 1.6K	Nos	1	1					
73	02-1010-0102	Resister RN 10 / 0.15K OMH	Nos	1	1					
74	02-1010-0104	Pot 002W - 001OK	Nos	1	1					
75	02-1010-0105	Pot Dial 02100CH 5000	Nos	1	1					
76	02-1010-0109	Card Transdyn CA CU8 NS-	Nos	1	1					FOC SRS
77	02-1010-0110	Card Transdyn CA CU3 LXK-0261A	Nos	1	1					FOC SRS
78	02-1010-0111	Card Transdyn CA JU6ARY - 0532-A	Nos	1	1					
79	02-1010-0112	Card Transdyn CDJU 4/XY-0532A	Nos	1	1					FOC SRS
80	02-1010-0113	Over current relay L3	Nos	1	1					
81	02-1010-0115	Resistance Carbon	Nos	1	1					
82	02-1010-0118	Signal relay DXM 24	Nos	1	1					
83	02-1010-0127	Porcelline Tube register RCCCY	Nos	3	3					
84	02-1010-0128	Porcelline Tube register RXXY	Nos	3	3					
85	02-1010-0129	Porcelline Tube Register RXXY	Nos	3	3					
86	02-1010-0130	Porcelline Tube register RXXY	Nos	3	3					
87	02-1010-0131	Capacitor CJ48	Nos	2	2					
88	02-1010-0132	Capacitor COMT 0050S	Nos	2	2					
89	02-1010-0135	wAh meter Z2106 - 33 12000A /5AMP	Nos	1	1					
90	02-1010-0140	RINS mold Dry Trans: - SCL 1600/6	Nos	1	1					
91	02-1010-0141	RINS mold Dry Trans: - 1000KVA	Nos	1	1					
92	02-1010-0142	RINS MOLDED Dry Transf.Type-Q/JB 2928/87 Scl1250/6	Nos	1	1					FOC SRS
93	02-1010-0145	Misc Power Transformer Dry 250 KVA	Nos	1	1					FOC SRS
94	02-1010-0147	Auxillary Relay DZ51/40 220V	Nos	18	18					
95	02-1010-0148	Voltage Relay DJ132A	Nos	16	16					
96	02-1010-0149	Matching CTFL 8/5	Nos	2	2					
97	02-1010-0150	Frequency Meter Z2106-30	Nos	1	1					
98	02-1010-0151	Cyncronysing Rekay -100-100 200V	Nos	2	2					
99	02-1010-0152	Automatic Exhuast ZZQ - 3A	Nos	2	2					
100	02-1010-0153	Synchronisin Check Relay	Nos	1	1					Foc
101	02-1010-0159	Composite switch HZ 10 -25B/03/220 V	Nos	1	1					
102	02-1010-0160	Auxillary switch F-1-2	Nos	2	2					
103	02-1010-0161	AC Connector CG128-150	Nos	1	1					
104	02-1010-0162	SRC Type KP 500/A 1200V	Nos	3	3					
105	02-1010-0163	Triod 3AD 6C 3	Nos	3	3					
106	02-1010-0164	Triod 3AX 83	Nos	3	3					

IMDAD ALI QAZI
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
107	02-1010-0174	Wound pot WX - 3 -11	Nos	3	3					
108	02-1010-0175	Wound pot WX - 3 -11750	Nos	3	3					
109	02-1010-0176	Wound pot WX - 3 -11-1K	Nos	2	2					
110	02-1010-0178	Wound pot WX - 3 - 11 -10K	Nos	2	2					
111	02-1010-0181	DC Volt meter 16 C 4- V - 150-0	Nos	1	1					
112	02-1010-0183	DC Volt meter 16 C A- V - 0450V	Nos	1	1					
113	02-1010-0184	DC Volt meter 16C4 -V - 100K	Nos	1	1					
114	02-1010-0185	DC Amp Meter 16C4 - A - 7450	Nos	1	1					
115	02-1010-0186	DC Amp Meter 16C4 - A - 300	Nos	1	1					
116	02-1010-0189	Air Circuit Breaker	Nos	1	1					
117	02-1010-0190	Voltage Relay DG 122 -320	Nos	1	1					
118	02-1010-0191	Voltage Relay DG 122 -400	Nos	1	1					
119	02-1010-0192	Current Relay DL 11/1.4	Nos	1	1					
120	02-1010-0193	Signal Relay DX 11/200	Nos	1	1					
121	02-1010-0195	DC Amp Current Divider FL-2 -75 L	Nos	1	1					
122	02-1010-0196	DC Amp Current Divider FL-2 .7 MB	Nos	1	1					
123	02-1010-0197	Dc Amp Current Divider FL-2-300A	Nos	1	1					
124	02-1010-0201	Time relay J3 -11 - 2	Nos	1	1					
125	02-1010-0204	Winding resister RXY C 50 W	Nos	1	1					
126	02-1010-0205	Winding resister RXY C 50 W -100Q	Nos	1	1					
127	02-1010-0206	Winding resiter RZY C -75 w	Nos	1	1					
128	02-1010-0207	Potento meter 150W	Nos	1	1					
129	02-1010-0208	Electro Megnated relay JX 3 C	Nos	1	1					
130	02-1010-0209	Mini Relay JRC5 M	Nos	1	1					
131	02-1010-0210	Electrolatic Condencer CDM -5 -50 W	Nos	2	2					
132	02-1010-0211	Syncronyzer Trans: DZ -0-116	Nos	1	1					
133	02-1010-0212	Controll Transf U-75 - 102 -002	Nos	1	1					
134	02-1010-0213	Electric Wave filter KVA 250	Nos	1	1					
135	02-1010-0214	Electric Wave filter KVA 50180	Nos	1	1					
136	02-1010-0215	Rectifier Transf. KVA 150 - 260	Nos	1	1					
137	02-1010-0217	Rectifier Transf. KVA 150 - 180	Nos	1	1					
138	02-1010-0218	Automatic Air C/Breaker Dw 10 -402	Nos	1	1					
139	02-1010-0220	DC Magnetic Contractor SV-11V	Nos	1	1					
140	02-1010-0221	Potential Trans of Genr ZD2J-215	Nos	2	2					
141	02-1010-0223	Dc Contractor CZO - 400/10	Nos	1	1					
142	02-1010-0224	Dc Contractor CDZ - 34-Pas	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
143	02-1010-0228	Thermal Relay T-220	Nos	3	3					
144	02-1010-0229	Thermal Relay T-250	Nos	5	5					
145	02-1010-0230	Current Relay K9E 0752 2.5 VA	Nos	1	1					
146	02-1010-0231	Current Relay K9E 0760 T 2VA	Nos	1	1					
147	02-1010-0232	Current Relay 5AL 6V 750 Hz 22.8A	Nos	1	1					
148	02-1010-0233	Over Current Relay 20-80	Nos	1	1					
149	02-1010-0234	Under voltage relay 60-90	Nos	1	1					
150	02-1010-0235	Under voltage relay 30.60	Nos	1	1					
151	02-1010-0236	Prec diff relay 5 A	Nos	1	1					
152	02-1010-0238	Indication 0ver voltage relay	Nos	1	1					
153	02-1010-0239	Voltage balance relay	Nos	1	1					
154	02-1010-0241	Voltage balance relay	Nos	1	1					
155	02-1010-0243	Loss of field relay	Nos	1	1					
156	02-1010-0244	VE PH Seq. O/C relay 220V (23W)	Nos	1	1					
157	02-1010-0245	Perc diff relay 2VA , 220V (56W)	Nos	1	1					
158	02-1010-0246	Winding ground relay K9E 0724 T	Nos	1	1					
159	02-1010-0248	VE PH Seq. O/C relay 5V (10VA)	Nos	1	1					
160	02-1010-0251	Sillicon rectifier stock	Nos	1	1					
161	02-1010-0252	H/speed Air S/Breaker	Nos	1	1					
162	02-1010-0253	R/Lead DWG-No.03B 1936	Nos	2	2					
163	02-1010-0259	Connecting bolt DWG No.04D1312	Nos	2	2					
164	02-1010-0263	Insulation Bushing DWG-05D 2449	Nos	6	6					
165	02-1010-0264	Axcial conductor Assb.DWG-04C 0038	Nos	1	1					
166	02-1010-0267	Blore Assmbly DWG-03B2049	Nos	1	1					
167	02-1010-0268	Insulation Bushing DWG-05D9203	Nos	1	1					
168	02-1010-0270	Spacer DWG-04D 4427	Nos	2	2					
169	02-1010-0271	Mica plate Size 0.5x89.5x600	Nos	23	23					
170	02-1010-0287	PCB CBJU (CD JU4 Lox-0205C) Japan	Nos	1	1					
171	02-1010-0288	PCB CBJU CD J44Yxx-020 4B)	Nos	1	1					
172	02-1010-0289	PCB CBJU (CD Juic GX-0302A)	Nos	1	1					
173	02-1010-0290	PCB CBJU (Dcju,Pvx-0203A)	Nos	1	1					
174	02-1010-0291	M/N Recorder NSA/10-11 BIS	Nos	1	1					
175	02-1010-0292	MVAR Recorder RSA-10	Nos	1	1					
176	02-1010-0295	PCB ASSY Alarm (2750020)	Nos	1	1					
177	02-1010-0296	PCB ASSY RF Supp 3Ph Tested No.0414290	Nos	1	1					
178	02-1010-0297	PCB ASSY RELAY4 Pole No.2752050	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
179	02-1010-0298	PCB ASSY RELAY SPC No.2700500	Nos	1	1					
180	02-1010-0299	PCB ASSY RELAY 6 Pole CU Speial	Nos	1	1					
181	02-1010-0306	H/Current Trans	Nos	6	6					
182	02-1010-0309	Insulation voltage regulator	Nos	1	1					
183	02-1010-0317	Power Transformar 6EA 172246	Nos	1	1					
184	02-1010-0324	MULTI METER KA-149/SP	Nos	5	5					
185	02-1010-0325	MULTI METER 4M 110B	Nos	1	1					
186	02-1010-0326	Insulaction Resister Moniter0-500	Nos	1	1					Foc
187	02-1010-0329	Pen Violet Part#50074032	Nos	7	7					
188	02-1010-0331	Aux;Concet	Nos	30	30					
189	02-1010-0334	Panel Coling Fan(Cooling Fan For Battery Charger Panel)	Nos	1	1					
190	02-1010-0362	Graph Paper Part#50074247 Lenght-64 meter	Nos	22	22					
191	02-1010-0363	Plastic Rollers for Graph Paper 50073389	Nos	1	1					
192	02-1010-0366	Three Phase 15/90 Amp	Nos	10	10					
193	02-1010-0395	Magnetic Contactor	Nos	2	2					
194	02-1010-0399	Volt Meter A/C Type-0~400V Ac	Nos	1	1					
195	02-1010-0401	Accounter Limit Switch Assembly	Nos	11	11					
196	02-1010-0402	Limit Switch Driver	Nos	10	10					
197	02-1010-0404	Finger Contacts More Able Large Size	Nos	18	18					
198	02-1010-040	Finger Contacts More Able Small Size	Nos	18	18					
199	02-1010-0406	6.6 Kv Bus Pt Fuse	Nos	2	2					
200	02-1010-0407	6.6 kv Surge Limiter	Nos	3	3					
201	02-1010-0420	Megnatic Contact B-85 220V	Nos	14	14					
202	02-1010-0421	Megnatic Contact B-85 380V	Nos	5	5					
203	02-1010-0422	Megnatic Contact B-45 380V	Nos	52	52					
204	02-1010-0423	Contector B-45 tth-60A-380V-Coil 380VAC	Nos	34	34					
205	02-1010-0424	Scn-4110V	Nos	2	2					
206	02-1010-0440	CVCF Invevter Exhaust Fan With ViberationFanSansorTypeTMBI100Volt	Nos	2	2					
207	02-1010-0443	Time Relay BS-33 + 6-30 min un-220v	Nos	3	3					
208	02-1010-0445	AC Contactor CJT1-20-380V	Nos	47	47					
209	02-1010-0446	AC Contactor CT T1-150 380V-50Hz	Nos	2	2					
210	02-1010-0447	Signal Relay Dx-11-un-220V	Nos	1	1					
211	02-1010-0448	Monophase Auto Switch DZ-5-10 Current-2A-1.2-1Hr 1.75-C10Min	Nos	1	1					
212	02-1010-0449	MCCB DZ5-20P/320 Current 20A	Nos	1	1					
213	02-1010-0451	Combine Switch HZ10-1011 10A-220V-10A380V	Nos	2	2					
214	02-1010-0452	Combine Switch 10A,380V	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
215	02-1010-0458	Auxiliary Relay Jz-14-447/4(Th)	Nos	6	6					
216	02-1010-0459	Auxiliary Relay Jz-7-44/380V	Nos	134	134					
217	02-1010-0460	Main Switch LS2 Ui=380V lth=10A	Nos	1	1					
218	02-1010-0461	Universal Switch LWS-16E1132/4-500V 16A	Nos	3	3					
219	02-1010-0468	Universal Switch LWS-16E1131/4 500V-16A	Nos	3	3					
220	02-1010-0469	Universal Switch LWS-16D1689/6 500V-16A	Nos	1	1					
221	02-1010-0470	Universal Switch LWS-16D 6709/6 500V-16A	Nos	2	2					
222	02-1010-0471	Universal Switch LWS-16F1461/5 500V-16A	Nos	6	6					
223	02-1010-0472	Universal Switch LWS-16D0724/3 500V-16A	Nos	19	19					
224	02-1010-0475	Magnetic Contuctor AC BBC-25-30 Cll-220v-60A B-30 380V	Nos	6	6					
225	02-1010-0477	Auxilary Relay Type JZ-7=44 220V-380V 5AMP 50Hz	Nos	3	3					
226	02-1010-0487	Numbering Frol 2.5mm AtoZ	Pkt	20	20					
227	02-1010-0490	Contactor Type B-9 380V Operating Coil 220V AC	Nos	15	15					
228	02-1010-0491	Contactor Type B-9 380V Operating Coil3 80V AC	Nos	10	10					
229	02-1010-0492	Contactor Type B-16 380V Operating Coil 220V AC	Nos	13	13					
230	02-1010-0493	Contactor Type B-16 380V Operating Coil 380V AC	Nos	16	16					
231	02-1010-0495	Contactor Type B-105 380V Operating Coil 220V AC	Nos	1	1					
232	02-1010-0497	Magnetic Contuctor B-105,380V	Nos	5	5					
233	02-1010-0501	Over Load relay T-105 380V 50Hz Amp Seting 70.105A	Nos	21	21					
234	02-1010-0502	Over Load Relay T-170 380 50Hz Amp Seting 140-200A	Nos	1	1					
235	02-1010-0503	Over Load relay T-18 380V 50Hz Amp Seting 9.2-13A	Nos	7	7					
236	02-1010-0507	Auxilary Relay Type-JT3-22 Coil Voltage 220V Dc	Nos	3	3					
237	02-1010-0510	Isolating Cover Of Primery	Nos	70	70					
238	02-1010-0520	Magnetic Contuctor 32A	Nos	2	2					
239	02-1010-0537	Top Coil	Nos	48	48					Foc
240	02-1010-0538	Bottom Coil	Nos	47	47					Foc
241	02-1010-0539	Top Lead Coil	Nos	6	6					Foc
242	02-1010-0540	Bottom Lead Coil	Nos	6	6					Foc
243	02-1010-0542	Water Hose Assy	Nos	106	106					Foc
244	02-1010-0548	Stud M24	Nos	28	28					Foc
245	02-1010-0556	Salot Wedes	Nos	500	500					Foc
246	02-1010-0557	Tappet Wedes	Nos	320	320					Foc
247	02-1010-0610	Bridges/Diodes/thyristers ExondInverterBridge(ITH22M220 504451222	Nos	1	1					
248	02-1010-0611	RCD SNubber Card (041601195 Chlooride Card)	Nos	1	1					
249	02-1010-0612	CDIM-08 Driver PCB DC/DC IGBT /trenchIT(5910980008)	Nos	1	1					
250	02-1010-061	Loin-00Digital Inverter	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
251	02-1010-0614	CANO-00 Out Put CAN Board (5911060000)	Nos	1	1					
252	02-1010-0615	Canif-00 Inter Face Can Board	Nos	1	1					Foc
253	02-1010-0616	Cuai-11 Cud5MC 5MPS 80/300VDC OUT PUT24VDC(5911091100)	Nos	1	1					
254	02-1010-0618	CANDIS-10 Rj-45 Coude UCMB90FS465911110010)	Nos	1	1					
255	02-1010-0620	Display Key Boatd APODYS(Industrial System Label)5911140000	Nos	2	2					
256	02-1010-0621	DFVU-00 Universal Fan Fail Card FAN D=150mm 70Va CR(5911190000)	Nos	1	1					
257	02-1010-0622	Loop 1000A C+/-1500A)0107020034 (Chloride Code)	Nos	1	1					
258	02-1010-0623	Current Transfermer 600A/0.2A 3-00Va Classeo-5 5701100035	Nos	1	1					
259	02-1010-0624	Manufacturing of0.4Kv Contacts(Moveable)For Cooling Fan BrakerU#1	Nos	5	5					
260	02-1010-0639	Chamber Of 0.4 KV Circet Breaker	Nos	148	148					
261	02-1010-0640	Chamer of 0.4 Kv Circuit Braker Trolly	Nos	50	50					
262	02-1010-0658	Magnetic Contactor Type-SH4 Coil Voltage 100-110v AC50/60H(Japan)	Nos	3	3					
263	02-1010-0659	Magmetic Contactor Type-SC-5-1 Coil Voltage 200-220V AC 50/60HZ	Nos	2	2					
264	02-1010-0660	Magmetic Contactor Type-SC-5-1Coil Voltage100-110-120V AC 50/60HZ	Nos	5	5					
265	02-1010-0665	Thermal Over load Relay Type-TK-5-1 N6H 85A - 125A Fuji Japan	Nos	3	3					
266	02-1010-0666	Thermal Over load Relay Type-TK N8H 125A - 185A Fuji Japan	Nos	2	2					
267	02-1010-0667	Thermal Over load Relay Type-TK-5-1 N 2.8A - 4.2A Fuji Japan	Nos	3	3					
268	02-1010-0674	Sem Contactor Divece 200A	Nos	19	19					
269	02-1010-0682	SpareOfDieselGenerator ii-Over Voltage Moddle OVM-1 Type-450-1160	Nos	1	1					
270	02-1010-0683	SpareOfDieselGenerator iii-3-phase sapring Moddle Type-450-11004	Nos	1	1					
271	02-1010-0687	Magnetic Conecter Type-SC-4-0 Coil-Voltage 110VAC	Nos	11	11					
272	02-1010-0688	Thermo/Over Load Relay Type-GTK-22-063A~10	Nos	2	2					
273	02-1010-0689	Thermal Over Load Relay TypeGTK-22-5A~8A	Nos	3	3					
274	02-1010-0690	Megnatic Contactor Type-CJ12-400/3-380V 400A	Nos	2	2					
275	02-1010-0696	Battary Charger Configuration : Signal DCV-24/6A 50hz Frequncey	Nos	1	1					
276	02-1010-0705	Manuf.B.F.Pump Motor BrassTubeOuter-19mmInner-17mmLenght-1560mm	Nos	1	1					
277	02-1010-0710	Cooling Fan Of 0.4KV	Nos	6	6					
278	02-1010-0711	End Cover Of Colling Fan	Nos	6	6					
279	02-1010-0712	Frequency Relay Type-SQP--1 100V 50Hz	Nos	1	1					
280	02-1010-0715	Control Trasformer Input-380V Out Put 220-300V Core Design	Nos	4	4					
281	02-1010-0726	Installation New Tub. Tube-outer-DIA-19mm Intter-17mm Lenght-1700	Job	1	1					
282	02-1010-0730	Set of Grease Plate of Bearing of GT Fan Motor Cover(295x54/110mm	Set	3	3					
283	02-1010-0747	Magnetic Contactor GMC-9 Coil Voltage 380V AC,15A	Nos	17	17					
284	02-1010-0749	Magnetic Contactor GMC-32 Coil Voltage 380V AC,50A	Nos	21	21					
285	02-1010-0751	Magnetic Contactor GMC-65 Coil Voltage 380V AC,100A	Nos	3	3					
286	02-1010-0752	Magnetic Contactor GMC-65 Coil Voltage 220V AC,100A	Nos	7	7					

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1	2	3	4	5	6	7	8	10	11	12
287	02-1010-0753	Magnetic Contactor GMC-85 Coil Voltage 380 V AC 15A	Nos	5	5					
288	02-1010-0754	Auxiliary Relay Coil Voltage 220 AC	Nos	22	22					
289	02-1010-0758	Junction Box	Nos	3	3					
290	02-1010-0759	Junction Box	Nos	3	3					
291	02-1010-0760	Lead Connction Palte 10x10	Nos	3	3					
292	02-1010-0775	Manufa.of Carbon Brosh Holder	Nos	149	149					
293	02-1010-0777	Manuf.of The Complete Size Cover for the Motor Of BFWP Cooler	Nos	8	8					
294	02-1010-0793	Knife Switch	Nos	118	118					
295	02-1010-0794	Seprator	Nos	600	600					
296	02-1010-0795	Suporting Base	Nos	900	900					
297	02-1010-0797	Highe Tension Spring	Nos	900	900					
298	02-1010-0798	Loocking Pin	Nos	225	225					
299	02-1010-0799	Knife Switch Bar Rod	Nos	75	75					
300	02-1010-0800	Handel For Knife Swicth	Nos	2	2					
301	02-1010-0803	Tesys Thermal Overall Relay	Nos	2	2					
302	02-1010-0805	Thermal Overall Relay 45-65A	Nos	2	2					
303	02-1010-0806	Thermal Overall Relay 0.64-0.96A	Nos	4	4					
304	02-1010-0808	Thermal Overall Relay 9-13A	Nos	4	4					
305	02-1010-0809	Thermal Overall Relay 12-18A	Nos	2	2					
306	02-1010-0810	Megnatic contact CJ-10-20	Nos	41	41					
307	02-1010-0811	Megnatic contact CJ-10-75	Nos	17	17					
308	02-1010-0812	0.4 KV Mccb Breaker Trolly	Nos	22	22					
309	02-1010-0813	0.4 KV Mccb Breaker Trolly	Nos	9	9					
310	02-1010-0839	Carbon Bush Holder	Nos	2	2					
311	02-1010-0840	Monobacking 06 0.4kva	Nos	380	380					
312	02-1010-0841	Megnetic Controlar SCN-1 110V	Nos	38	38					
313	02-1010-0842	Megnetic Controlar SCN-1 15KV 220V	Nos	4	4					
314	02-1010-0843	Aux Realy Type MY4H-110V	Nos	39	39					
315	02-1010-0844	Tharmal O/Realy TROH/3	Nos	2	2					
316	02-1010-0845	Timer Type H3BA	Nos	18	18					
317	02-1010-0853	Megnetic Controlar Type D60.41 1000V	Nos	6	6					
318	02-1010-0854	Megnetic Controlar Type D65.41 1000V	Nos	1	1					
319	02-1010-0855	Megnetic Controlar Type D18.41 690V	Nos	11	11					
320	02-1010-0856	Megnetic Controlar Type D115.41 1000V	Nos	6	6					
321	02-1010-0857	Megnetic Controlar Type SCN 341 1000V	Nos	1	1					
322	02-1010-0858	Aux Realy Type LY4 -110V	Nos	24	24					

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1	2	3	4	5	6	7	8	10	11	12
323	02-1010-0859	Aux Realy Type MYZ -110V	Nos	35	35					
324	02-1010-0860	Aux Realy MY4 -110V	Nos	3	3					
325	02-1010-0861	Aux Realy Type MK -110V	Nos	19	19					
326	02-1010-0870	GRF Moter Side Coupling	Nos	2	2					
327	02-1010-0892	End Cover Of Colling Tower Motor	Nos	3	3					
328	02-1010-0896	Set of both end cover	Set	4	4					
329	02-1010-0906	Casting manufacturing soat blower	Set	5	5					
330	02-1010-0908	Oil Guage Glass	Nos	4	4					
331	02-1010-0918	Horizontal Centrifigal Pump + Motor	Set	1	1					
332	03-2006-021	600V 150A A216 WCB	Pcs.	2	2					
333	03-2006-022	600V 200A A216 WCB	Pcs.	2	2					
334	03-2006-023	600V 300A A216 WCB	Pcs.	2	2					
335	03-2006-024	600V 350A A216 WCB	Pcs.	2	2					
336	03-2006-025	600V 400A A216 WCB	Pcs.	2	2					
337	03-2006-026	600V 80A A216 WCB	Pcs.	2	2					
338	03-2006-027	600V 200A A216 WCB	Pcs.	2	2					
339	03-2006-034	Daiphaummer Valve C6 B-41J-6	Pcs.	1	1					
340	03-2006-041	Check Valve H44 H-40	Nos.	1	1					
341	03-2006-044	Check Valve H44 T-10	Nos.	1	1					
342	03-2006-046	Check Valve H44 T-10 DS-400	Nos.	1	1					
343	03-2006-047	Check Valve H41 T-16 DS-25	Nos.	1	1					
344	03-2006-049	Gate Valve 241H-25 DS-300	Nos.	1	1					
345	03-2006-061	Check Valve H41 H-25 DS-150	Nos.	1	1					
346	03-2006-062	Check Valve H41 H-25 DS-125	Nos.	1	1					
347	03-2006-066	Check Valve H44 J-6 DS-100	Nos.	2	2					
348	03-2006-067	Gate Valve Z545 T-10 Ds-500	Nos.	1	1					
349	03-2006-074	Stop Valve J41 H-40 DS-20	Nos.	1	1					
350	03-2006-077	Stop Valve J41 H-25 DS-20	Nos	1	1					
351	03-2006-084	Stop Valve J41 DG-15	Nos.	15	15					
352	03-2006-085	Stop Valve J41 x-10 DG-15	Nos.	1	1					
353	03-2006-087	Moter Operated Stop Valve 2062.034	Nos.	2	2					
354	03-2006-089	Control Valve PT40 DG 80	Nos.	1	1					
355	03-2006-091	Stop Valve DG20	Nos.	1	1					
356	03-2006-092	Globe Valve 4"	Nos.	2	2					
357	03-2006-093	Manual Shut Off Valve DG20	Nos.	4	4					
358	03-2006-095	Gate Valve DG15	Nos.	1	1					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
359	03-1013-001	Carbon Bush	Nos.	232	232					
360	03-1013-002	Carbon Bush	Nos.	98	98					
361	03-1013-003	Carbon Bush	Nos.	419	419					
362	03-1013-004	Carbon Bush	Nos.	463	463					
363	03-2003-0001	Relay Bond FHH2.118-001	Nos	2	2					
364	03-2003-0002	5W Set Amp Board FHH2.808.001	Nos	2	2					
365	03-2003-0003	Canc. Amp Board FHH&.820-001	Nos	2	2					
366	03-2003-0004	B.A.Board FHH2.802-001	Nos	2	2					
367	03-2003-0005	6-Channels Pre - Amp Board	Nos	2	2					
368	03-2003-0006	8-Channels A.FFF Board	Nos	2	2					
369	03-2003-0007	Alarm Board Fhh2-821.001	Nos	2	2					
370	03-2003-0008	Operation Board Fhh7.820.002	Nos	2	2					
371	03-2003-0009	SQW Generator Fhh2-817.001	Nos	2	2					
372	03-2003-0010	Rining Board FHH2-821.001	Nos	2	2					
373	03-2003-0011	D.C . 24V Power Board Fhh2.932.001	Nos	2	2					
374	03-2003-0012	15W 0DWS Board FHH2.808-003	Nos	2	2					
375	03-2003-0013	5W 1DWS Board FHH2.808.002	Nos	2	2					
376	03-2003-0014	DS-P-Box Board Fhh2.808.004	Nos	2	2					
377	03-2003-0015	Recorder	Nos	1	1					
378	03-2003-0016	Transmitter Shh-1	Nos	30	30					
379	03-2003-0018	Button KJD1	Nos	100	100					
380	03-2003-0019	Button KJJ 011	Nos	30	30					
381	03-2003-0020	Socket CZJX-Y-72	Nos	20	20					
382	03-2003-0021	Socket CZJX-Y-44	Nos	20	20					
383	03-2003-0022	Speeker YD100-158 2W/8~	Nos	3	3					
384	03-2003-0023	Speeker YD55-10 4VA/8~	Nos	10	10					
385	03-2003-0024	Speeker YH10-2 10/8~	Nos	10	10					
386	03-2003-0026	Rheo(Rheostat) WH-47K	Nos	10	10					
387	03-2003-0030	Dial BH-4	Nos	2	2					
388	03-2003-0031	Graviational Switch	Nos	10	10					
389	03-2003-0032	Led (Red) LDDH-8	Nos	88	88					
390	03-2003-0033	Led (Red) LDDH-5	Nos	90	90					
391	03-2003-0036	Triode 3DA87B	Nos	97	97					
392	03-2003-0037	Triode 3AX31B	Nos	29	29					
393	03-2003-0038	Triode 3DD 203	Nos	43	43					
394	03-2003-0039	Triode 3DD 15B	Nos	25	25					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
395	03-2003-0040	Triode 1N 4004	Nos	97	97					
396	03-2003-0041	IC SW317/Cw317	Nos	37	37					
397	03-2003-0042	Relay Jrc-4MA	Nos	20	20					
398	03-2003-0043	Baffer OTP No.06	Nos	60	60					
399	03-2003-0044	15W Power ITR No.13	Nos	29	29					
400	03-2003-0045	A.F FF.ITR No.10	Nos	20	20					
401	03-2003-0046	5W Pre-Amp Itr No.2	Nos	20	20					
402	03-2003-0047	Alarm OTP	Nos	10	10					
403	03-2003-0048	Ringing OTP 77 2001	Nos	20	20					
404	03-2003-0049	15W Power-AMP-OTP No.14	Nos	20	20					
405	03-2003-0050	15W Power-AMP-ITP No.12	Nos	20	20					
406	03-2003-0051	Set-Amp-OTP No.11	Nos	20	20					
407	03-2003-0052	Sw Pre-Amp ITP No.7	Nos	20	20					
408	03-2003-0053	Ringing Trans No.9	Nos	1	1					
409	03-2003-0054	24W Pow Trans No.4	Nos	6	6					
410	03-2003-0055	3W Pow Trans No.19	Nos	2	2					
411	03-2003-0056	12W Pow Trans No.5	Nos	2	2					
412	03-2003-0057	Relay JRC-5M	Nos	10	10					
413	03-2003-0058	Insular	Nos	1	1					
414	03-2003-0059	HV Fuse RN6-20	Nos	3	3					
415	03-2003-0060	PT JDZJ-15.75	PCS	1	1					
416	03-2003-0061	PT JDZJ-15.75	Nos	1	1					
417	03-2003-0067	Copper Bride Joint	Nos	1	1					
418	03-2003-0068	Insulating Plate	Nos	1	1					
419	03-2003-0069	Ring	Nos	2	2					
420	03-2003-0070	Seal-Off Ring	Nos	1	1					
421	03-2003-0071	Thyristor KP 500a 1200V	Nos	1	1					
422	03-2003-0074	Fuse RL1-5A/15A	Nos	2	2					
423	03-2003-0075	Fuse RL1-2A/15	Nos	2	2					
424	03-2003-0077	PCB Q25.210.016	Nos	1	1					
425	03-2003-0078	PCB Q25.210.020	Nos	1	1					
426	03-2003-0079	Signal Fuse RX-24	Nos	4	4					
427	03-2003-0082	Transistor DD01	Nos	5	5					
428	03-2003-0083	Transistor 3DK4B	Nos	5	5					
429	03-2003-0084	Rectifier ZP5a 1200V	Nos	3	3					
430	03-2003-0085	Diode ZCP 21	Nos	5	5					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
431	03-2003-0086	Diode ZCP 45	Nos	5	5					
432	03-2003-0088	Trigger ICS KC04 OR KC09	Nos	3	3					
433	03-2003-0091	Fast Acting Fuse RS3-500/15	Nos	6	6					
434	03-2003-0093	Semiconductor Rectifier Diode ZP-50A/300V	Nos	6	6					
435	03-2003-0094	Cemicon Controller Rectifier KP-50A/300V	Nos	6	6					
436	03-2003-0095	Procelain-Clad Type-Potention Meter 500~	Nos	1	1					
437	03-2003-0096	Control Button LA2	Nos	3	3					
438	03-2003-0097	Pilot Lamp (Green) XDS-380V	Nos	3	3					
439	03-2003-0099	Direc-Voltage Meter 500V	Nos	1	1					
440	03-2003-0106	Current Transformer LzzB6-10 100/5A 0.5/B	Nos	3	3					
441	03-2003-0107	Current Transformer LZZ QB6-10	Nos	5	5					
442	03-2003-0108	Current Transformer LMZ B6-10(LMZ6-10)	Nos	3	3					
443	03-2003-0109	Voltage Transformer JDG4-0.5	Nos	1	1					
444	03-2003-0111	Voltage Transformer JDZJ 6-6 6.6	Nos	1	1					
445	03-2003-0112	Voltage Transformer JSGW-0.5	Nos	1	1					
446	03-2003-0115	Knife Switch HH1 1	Nos	1	1					
447	03-2003-0116	Knife Switch Hs 13	Nos	1	1					
448	03-2003-0119	Controler Transformer Bk-1500	Nos	2	2					
449	03-2003-0120	A.C Ammeter 6L2-A	Nos	3	3					
450	03-2003-0121	A.C Ammeter 42L6-A 100/5A	Nos	24	24					
451	03-2003-0123	Change Over Switch LW5-15	Nos	2	2					
452	03-2003-0124	Change Over Switch Lw 2	Nos	1	1					
453	03-2003-0125	Change Over Switch HZ 10	Nos	1	1					
454	03-2003-0126	Relay DZJ-201X	Nos	1	1					
455	03-2003-0127	Realy YZJ 1-2	Nos	1	1					
456	03-2003-0128	Realy JZ7-44	Nos	1	1					
457	03-2003-0129	Realy ZJ3-2A	Nos	1	1					
458	03-2003-0135	Relay JS11-41	Nos	1	1					
459	03-2003-0136	Relay DL21-C	Nos	5	5					
460	03-2003-0137	Relay DS-21	Nos	2	2					
461	03-2003-0141	Relay DS-23	Nos	3	3					
462	03-2003-0142	Relay DL-21C	Nos	6	6					
463	03-2003-0143	Relay DS-24	Nos	1	1					
464	03-2003-0146	Relay DX-15/S	Nos	2	2					
465	03-2003-0149	Relay DM3	Nos	1	1					
466	03-2003-0150	Dc Contactor CZ 0-40.20	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
467	03-2003-0159	Fuse RL1-60	Nos	3	3					
468	03-2003-0160	Fuse RL1-60	Nos	3	3					
469	03-2003-0161	Fuse RTO-50	Nos	3	3					
470	03-2003-0162	Fuse RTO-100 40A	Nos	3	3					
471	03-2003-0163	Fuse RTO-100-10A	Nos	1	1					
472	03-2003-0165	Resistor ZG11	Nos	1	1					
473	03-2003-0166	Resistor ZG11	Nos	1	1					
474	03-2003-0167	Resistor ZG11	Nos	3	3					
475	03-2003-0172	Button La10-1S	Nos	1	1					
476	03-2003-0178	Aux.Current Transformer FL-8/1	Nos	1	1					
477	03-2003-0180	Shunt 10A,50A100A FL2-75	Nos	3	3					
478	03-2003-0183	Zero Sequence Current Transformer LJ-7 (SP/2029)	Nos	1	1					
479	03-2003-0191	Vacume Tube 3Ay 1512-2R	Nos	1	1					
480	03-2003-0192	Vacume Tube 3Ay 1512-2T	Nos	1	1					
481	03-2003-0194	Driving Moter 3AY15 11-1F	Nos	1	1					
482	03-2003-0196	Upper Main BRG Shell XT.01.0001	Nos	1	1					
483	03-2003-0197	Lower Main BRG Shell XT.01.0002	Nos	1	1					
484	03-2003-0198	Wide Lower M/BRG Shell XT.01.0003	Nos	1	1					
485	03-2003-0199	Wide Lower M/BRG Shell XT.01.0004	Nos	1	1					
486	03-2003-0200	Cylinder Liner XT-01.0017	Nos	1	1					
487	03-2003-0201	Cylinder Head Sealing Plate XT-01.0022	Nos	3	3					
488	03-2003-0202	Water Canal Sealing Ring Xt.01.3002	Nos	36	36					
489	03-2003-0203	1st ,2nd Piston Ring Xt.02.0001	Nos	6	6					
490	03-2003-0204	3RD,4TH Piston Ring Xt.02.0002	Nos	6	6					
491	03-2003-0205	Oil Ring /Gasket XT.02.0003	Nos	6	6					
492	03-2003-0206	Sylinder Head XT.03.0001	Nos	1	1					
493	03-2003-0207	Screw Plug XT.03.0004	Nos	10	10					
494	03-2003-0208	Intake Valve Seat XT.03.0005	Nos	2	2					
495	03-2003-0209	Intake Valve Seat XT.03.0006	Nos	2	2					
496	03-2003-0210	Exchaust Valve Xt.03.0007	Nos	1	1					
497	03-2003-0212	Exchaust Valve Seat Xt.03.0009	Nos	2	2					
498	03-2003-0213	Washer Xt.03.0014	Nos	1	1					
499	03-2003-0214	Screw Plug Xt.03.0014	Nos	1	1					
500	03-2003-0215	Valve Clamp Xt.03.0016	Nos	8	8					
501	03-2003-0216	outer Valve Spring Xt.03.0018	Nos	6	6					
502	03-2003-0217	inner Valve Spring xt.03.0019	Nos	5	5					

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1	2	3	4	5	6	7	8	10	11	12
503	03-2003-0218	valve transverse lever guide steam xt.03.0023	Nos	2	2					
504	03-2003-0219	valve transverse lever guide steam XT.03.0022	Nos	2	2					
505	03-2003-0220	Washer XT.03.0024	Nos	1	1					
506	03-2003-0221	Water Sealing Sleave XT.03.0025	Nos	1	1					
507	03-2003-0222	Sealing Ring XT.03.0026	Nos	1	1					
508	03-2003-0223	Washer XT.03.0027	Nos	1	1					
509	03-2003-0224	Washer Sealing Sleave Pressing Nut Xt.03.0036	Nos	1	1					
510	03-2003-0225	Eahaust Manifold Gasket XT.03.0038	Nos	6	6					
511	03-2003-0226	Plug Xt.03.0040	Nos	1	1					
512	03-2003-0227	Plug Xt.03.0041	Nos	1	1					
513	03-2003-0228	Washer XT.03.0042	Nos	6	6					
514	03-2003-0229	Sealing Ring XT.03.0045	Nos	3	3					
515	03-2003-0230	Gasket XT.03.0045	Nos	3	3					
516	03-2003-0231	Gasket XT.03.0046	Nos	3	3					
517	03-2003-0232	Injution Nozzle Body Protection	Nos	1	1					
518	03-2003-0233	Washer XT.03-0048	Nos	1	1					
519	03-2003-0234	Roller XT.07.2005	Nos	3	3					
520	03-2003-0235	Roller Shaft Xt.07.2007	Nos	6	6					
521	03-2003-0236	Fivel Injuction (Component) 6X.10.0000	Nos	1	1					
522	03-2003-0237	Pressure Spring XT.10.0005	Nos	2	2					
523	03-2003-0238	Sealing Washer XT.10.0012	Nos	3	3					
524	03-2003-0239	Injection Pump (Compnent) XT.11.0000	Nos	1	1					
525	03-2003-0240	Plunger and Barrel (Elesnent) XT.011.1000	Nos	2	2					
526	03-2003-0241	Deliver Valve (Element) XT.11.2000	Nos	2	2					
527	03-2003-0242	Deliver Valve Spring XT.11.0005	Nos	2	2					
528	03-2003-0243	Fuel sealing Ring Xt.11.0007	Nos	5	5					
529	03-2003-0244	Injuction lime Xt.13.2000	Nos	3	3					
530	03-2003-0245	Gasket XT.21.0009	Nos	35	35					
531	03-2003-0246	Fitter Cartridge XT.21.2000	Nos	15	15					
532	03-2003-0247	Fitter Cartridge XT.22.1000	Nos	15	15					
533	03-2003-0248	Exepan Sine Piston Ring 6X.50.0024	Nos	4	4					
534	03-2003-0249	Sealing Ring 6X.50.0024	Nos	2	2					
535	03-2003-0250	Sealing Ring 6X.50.0026	Nos	2	2					
536	03-2003-0253	Cyl:Line Rubber Ring T.02.010.	Nos	6	6					
537	03-2003-0254	Union 6Q/HV102-79	Nos	2	2					
538	03-2003-0255	Union 8Q/HV102-79	Nos	20	20					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
539	03-2003-0256	Union 16Q/HV102-79	Nos	10	10					
540	03-2003-0257	Union 18Q/HV102-79	Nos	6	6					
541	03-2003-0258	Thermo Couple 6X.73	Nos	2	2					
542	03-2003-0259	Moulded Cae Circuit DZ10-600	Nos	1	1					
543	03-2003-0263	Thermal Relay T 45	Nos	2	2					
544	03-2003-0264	Thermal Relay T 16	Nos	4	4					
545	03-2003-0268	Relay DZ32B	Nos	11	11					
546	03-2003-0270	Relay DS-122	Nos	1	1					
547	03-2003-0274	Relay DS-23/C	Nos	1	1					
548	03-2003-0275	Relay DS-22	Nos	1	1					
549	03-2003-0278	Relay DL-21C	Nos	1	1					
550	03-2003-0280	Resistance ZX-12	Nos	2	2					
551	03-2003-0284	Tank Rin Rubber Stripe 20x30x13260	Nos	1	1					
552	03-2003-0288	80 Butterfly Valve 5ET 4.55-095TA	Nos	1	1					
553	03-2003-0289	40 Butterfly Valve 5ET 455.112 TA	Nos	1	1					
554	03-2003-0290	Glass Cylinder 8ET 170.132.6	Nos	1	1					
555	03-2003-0291	Glass Cylinder 8ET 170.132.2	Nos	1	1					
556	03-2003-0292	HV Bushing 6ET 280.114.52	Nos	1	1					
557	03-2003-0293	LV Bushing 6ET 280.261.4	Nos	1	1					
558	03-2003-0294	Gasket for LV Bushing 8ET 370.025.8	Nos	2	2					
559	03-2003-0295	Gasket for LV Bushing 8ET 370.009.9	Nos	1	1					
560	03-2003-0296	Gasket for Bushing 8ET 370.303.25	Nos	2	2					
561	03-2003-0297	Gasket for Bushing 8ET 370.303.30	Nos	2	2					
562	03-2003-0298	HV Bushing BRL-145/630	Nos	1	1					
563	03-2003-0299	LV Bushing 6ET 280.261.4	Nos	1	1					
564	03-2003-0301	Thermomiter Indication 6ET 349.019.2	Nos	1	1					
565	03-2003-0302	Buchloze Relay 6ET 236-019-2	Nos	1	1					
566	03-2003-0304	Glass Cylinder 8ET 170.132.2	Nos	1	1					
567	03-2003-0308	Gasket for Inspection Window on LX Side	Nos	1	1					
568	03-2003-0311	Gasket for LV Bushing Turret 8ET 370-620	Nos	1	1					
569	03-2003-0312	GASket for Cable Box 8ET 370.824	Nos	4	4					
570	03-2003-0313	Earthing Bushing 6ET 280.138.1	Nos	1	1					
571	03-2003-0314	Ly Nentral Bushing 6ET 280.112.15	Nos	1	1					
572	03-2003-0315	lY Bushing 6ET 280.261.2	Nos	1	1					
573	03-2003-0316	Mercury Thermometer Reffle 6ET 349.005	Nos	1	1					
574	03-2003-0319	Glass Cylinder 8ET 170.132.6	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
575	03-2003-0321	Oil-Submerged Pump YB 20-19/2.2	Nos	1	1					
576	03-2003-0322	Gasket for Tank Rin 8ET 370.1393	Nos	1	1					
577	03-2003-0323	Gasket for Hand Hole on HV Side 8ET 370-303.17	Nos	1	1					
578	03-2003-0324	Gasket for HV Bushing Turrent 8ET 370 1343	Nos	1	1					
579	03-2003-0327	Gasket for Main Hole of OLTC 8ET 370-1125.36	Nos	1	1					
580	03-2003-0328	HV Bushing BRL-220/1250-35707	Nos	1	1					
581	03-2003-0329	Gasket for Cable Box 8ET 370.1392	Nos	2	2					
582	03-2003-0330	Gasket Dia 420/470x10 8ET 370.125.2	Nos	1	1					
583	03-2003-0331	Gasket for hand hole 8ET 370.423	Nos	1	1					
584	03-2003-0332	HV Bushing BRL-220/1225	Nos	1	1					
585	03-2003-0333	HV Neutral Bushing 6ET 280.114.52	Nos	1	1					
586	03-2003-0336	Buchhole Relay 6ET 236.046	Nos	1	1					
587	03-2003-0337	150 Butterfly Valve 5ET 435.174	Nos	1	1					
588	03-2003-0338	Glass Cylinder 8ET 170.132.6	Nos	1	1					
589	03-2003-0339	Gasket for Tank Rin 8ET 370.1403	Nos	1	1					
590	03-2003-0340	Gasket for Hand Hole Tank and OLTC 8ET 370.1125.36	Nos	1	1					
591	03-2003-0341	Gasket for LV Bushing Turrent 8ET 370.281.2	Nos	1	1					
592	03-2003-0342	Gasket for HV Bushing Turrent 8ET 370.343	Nos	1	1					
593	03-2003-0343	Gasket for Hand Hole 8ET 370.303.17	Nos	1	1					
594	03-2003-0344	Gasket For HV Neutral Bushing Turret 8ET 370.1251.1	Nos	1	1					
595	03-2003-0347	Fuse 3NA 3814 35A	Nos	1	1					
596	03-2003-0348	Fuse 3NA 8021 100A	Nos	1	1					
597	03-2003-0349	Fuse 3NA 8022 125A	Nos	1	1					
598	03-2003-0350	Diode Bys 21-45	Nos	1	1					
599	03-2003-0351	Rectifier BF 36-931	Nos	1	1					
600	03-2003-0352	Transistor BUV98	Nos	1	1					
601	03-2003-0353	Transistor Module ETN 81-055	Nos	1	1					
602	03-2003-0354	Gate Driver PCB A11	Nos	1	1					
603	03-2003-0355	Inter Face OCB A12	Nos	1	1					
604	03-2003-0356	Base Driver A13	Nos	1	1					
605	03-2003-0357	Signalling A15	Nos	1	1					
606	03-2003-0358	Rectifier Electrnics A101	Nos	1	1					
607	03-2003-0359	Inter Regulater A102	Nos	1	1					
608	03-2003-0360	Inter Control A013	Nos	1	1					
609	03-2003-0361	Inter Monitoring A104	Nos	1	1					
610	03-2003-0364	Fuse 3NA 3882 125A	Nos	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
611	03-2003-0365	Fuse 3NE 8021 100A	Nos	1	1					
612	03-2003-0366	Fuse 3NE 8022 125A	Nos	1	1					
613	03-2003-0367	Diode ByS21-45	Nos	1	1					
614	03-2003-0368	Rectifier BF36-931	Nos	1	1					
615	03-2003-0369	Transistor Buv 98	Nos	1	1					
616	03-2003-0370	Transsistor Modle ETN 85-050	Nos	1	1					
617	03-2003-0371	Transsistor Modle Thy M 75A53V	Nos	1	1					
618	03-2003-0372	Transistor Module THY M 75A 80V	Nos	1	1					
619	03-2003-0373	Interface PCB A12	Nos	1	1					
620	03-2003-0374	Base Driver AB	Nos	1	1					
621	03-2003-0375	Signalling A 15	Nos	1	1					
622	03-2003-0377	Inverter Regulator A102	Nos	1	1					
623	03-2003-0378	Inverter Control A 103	Nos	1	1					
624	03-2003-0379	Inverter Monitoring A104	Nos	1	1					
625	03-2003-0383	DC-Excitation Maneable Contact	Nos	5	5					
626	03-2003-0389	Auxilary Switch FS-16 I/W	Nos	1	1					
627	03-2003-0398	Trunk Bond F#H2 . 8087-001	Nos	2	2					
628	03-2003-0399	Dc Amp Bond Fhh2 808-005	Nos	2	2					
629	03-2003-0400	Block Ever Excitor Relay LGC.ZG-T	Nos	12	12					
630	03-2003-0401	Auxilary Relay JT 3-22/5	Nos	1	1					
631	03-2003-0402	Control Switch DZ5-105 10A	Nos	5	5					
632	03-2003-0406	Current Relay DL-21 C/10 10A	Nos	46	46					
633	03-2003-0407	Time relay DS 21 220VDC	Nos	18	18					
634	03-2003-0414	Volt Meter 42L 6.6 10.1K	Nos	12	12					
635	03-2003-0429	Isolated Static Aring Coverings Incl.(Out let Screw and Mounting	Nos	24	24					
636	03-2003-0436	Secondary Plug Socket and Plastic House	Nos	4	4					
637	03-2003-0446	Hv Fuse RN2-10	Nos	6	6					
638	03-2003-0450	Over Current Relay DL-21c/20 20a	Nos	36	36					
639	03-2003-0451	Current Relay DL-21 C/50 -50A	Nos	2	2					
640	03-2003-0452	Time Relay D5-21 C/ 220VDC	Nos	13	13					
641	03-2003-0453	Time Relay D5-24C / 220V	Nos	1	1					
642	03-2003-0457	Resistance ZG11-50-7500/Ohm 50W	Nos	50	50					
643	03-2003-0458	Amperemeter 42L-6-A 150/5	Nos	24	24					
644	03-2003-0499	ME 630 Power Drive Trip Dc 220 ShortCircuit Intantons 630A	Nos	9	9					
645	03-2003-0505	Transmission Divice 1K-3019	Nos	7	7					
646	03-2003-0512	Chshim Filter Nut For Ignitor	Nos	150	150					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
647	03-2003-0513	200 KV IC-630 mm 50 XPE Cubid	MTR	3,750	3,750					
648	03-2003-0514	Oil Immersed Termination	Set	6	6					
649	03-2003-0515	Out Door Tower Termination	Set	6	6					
650	03-2003-0516	Solid Bond Link (1 Way)	Set	6	6					
651	03-2003-0517	Link Box With Svl Meter (3 Way)	Set	6	6					
652	03-2003-0523	Electric Moter Main Hook & Small Hook	PCS	1	1					
653	03-2003-0524	Electric Motor of Trolly TYZ 1/2R 132 M2-612 3-7Kw 50Hz 908 RRM	Nos	1	1					
654	03-2003-0525	Electric Motor of Crane Yzr 16m 6Th 5.5 Kw 50Hz 930 RPM	Nos	1	1					
655	03-2003-0526	(Brakes of Main Hook & Small Hook Yti-90)Limit Switch Lx6-100	Nos	1	1					
656	03-2003-0527	Brakes of Trolly Fyt-1-25zb/4TH KT 10-25T/13F	Nos	1	1					
657	03-2003-0528	Limit Switch Lx6-100	Nos	3	3					
658	03-2003-0529	Controllers of Trolly KT 10-25T/13F	Nos	1	1					
659	03-2003-0530	Controllers of Crane Kt 1-6 J/14F	Nos	1	1					
660	03-2003-0537	Core and Steel Wedge Drw 04D 4656	Nos	5	5					
661	03-2003-0538	Gasket DRW No. 04D 4594	Nos	5	5					
662	03-2003-0544	Gasket Drw No.O3C 5339	Nos	1	1					
663	03-2003-0545	Gasket Drw No.D3C 5337	Nos	1	1					
664	03-2003-0546	Gasket Drw No. 04C 0533	Nos	1	1					
665	03-2003-0548	Gasket DRW No. o4D 4540	Nos	1	1					
666	03-2003-0550	Gland seal ring	SET	6	6					
667	03-2003-0552	Slip Ring Assy for Main Excitor Dr no.03130178 Type JL	Nos	1	1					
668	03-2003-0553	Forced Draft Fan Moter Synch Machine	Nos	1	1					
669	03-2003-0554	Stater Winding Set With All Insulating matonal type yo 800-11-8	set	1	1					
670	03-2003-0555	Voltage Rectifying Tube W 7811-15K	Nos	4	4					
671	03-2003-0556	Rectifying Tube 2P-5A	Nos	8	8					
672	03-2003-0557	Current Relay Jl-14-11-J5 A	Nos	2	2					
673	03-2003-0558	Rectifying Silikan KP50A-800V	Nos	6	6					
674	03-2003-0559	Diode	Nos	20	20					
675	03-2003-0563	Transformer Type S-300 B5-Phase-I	Nos	1	1					
676	03-2003-0564	Transformer Type S-500 B56/Phase-I	Nos	1	1					
677	03-2003-0565	Transformer Type S/o B5 Phase-I	Nos	1	1					
678	03-2003-0566	Control Transformer Type S30-B5 Phase-I	Nos	1	1					
679	03-2003-0569	Dehydrating Breather	Nos	1	1					
680	03-2003-0570	Pressure relief Device	Set	1	1					
681	03-2003-0571	Resistance Thermometer	Nos	1	1					
682	03-2003-0572	Winding Temp Indicator	Set	1	1					

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1	2	3	4	5	6	7	8	10	11	12
683	03-2003-0573	Winding Tempreture Controller	Set	1	1					
684	03-2003-0574	Tempreature Controller	Set	1	1					
685	03-2003-0575	Oil Pump with Motor	Nos	1	1					
686	03-2003-0576	WZG-210 CE Thermo resistance	Nos	1	1					
687	03-2003-0577	Magnetic Oil Level Indicator UZB-250 Th	Set	1	1					
688	03-2003-0578	Oil Level Indicator UZF-200 TH	Set	1	1					
689	03-2003-0579	Buchholz relay Type Q-14 25 Th	Nos	1	1					
690	03-2003-0582	Resistance Thermometer	Set	1	1					
691	03-2003-0583	Tempreature Indicator Type-XCT-102	Nos	1	1					
692	03-2003-0584	Gasket Set 370.303.2	Nos	1	1					
693	03-2003-0585	Gasket Set 370.303.1	Nos	1	1					
694	03-2003-0588	Pressure Relief Valve YSF-55Th	Nos	1	1					
695	03-2003-0589	Winding Temp Indicator Type-LW6-2/A059	Set	1	1					
696	03-2003-0590	Dehydrating Breathe DWG.6ET.043.1255	Nos	1	1					
697	03-2003-0591	Fan Motor Alonge With Blades Type BF2-504	Set	1	1					
698	03-2003-0596	Dehydrating Breather Set.439.040.12	Nos	1	1					
699	03-2003-0597	Gas Relay Type Qt4-25 TH	Nos	1	1					
700	03-2003-0598	Temperature INdication Controller Type-WTZK-02 TH	Set	1	1					
701	03-2003-0599	Cu Resisitance Thermomeyter Type-WZC 221-30	Nos	1	1					
702	03-2003-0600	fan Essmbly Set 436.027.6	Nos	1	1					
703	03-2003-0601	Sealing Gasket Set 370.303.2	Nos	1	1					
704	03-2003-0602	Sealing Gasket Set370.303.1	Nos	1	1					
705	03-2003-0604	Rubber Gasket for Buterfly Valve Tyep-150	Pcs	25	25					
706	03-2003-0605	Rubber gas Ket for butterfly Valve Type-80	Pcs	31	31					
707	03-2003-0606	Rubber Gasket for butterfly Valve (Type-40)	Pcs	18	18					
708	03-2003-0607	O- Ring a)Air relese Pluig rubber Gasket(i.e o ring)	Pcs	10	10					
709	03-2003-0608	O-Ring b) 20x15x5	Pcs	10	10					
710	03-2003-0609	O-Ring 15x12x5	Pcs	10	10					
711	03-2003-0610	O-Ring d)18x14x4	Pcs	10	10					
712	03-2003-0611	O-Ring e) 26x20x6	Pcs	10	10					
713	03-2003-0618	3-Phase Indication Motor Type:FEQ	Nos	1	1					
714	03-2003-0625	Level Switch Type 61F-GP-N Source 100-110V AC	Nos	1	1					
715	03-2003-0626	Tempurature Controler Type W986A1001	Nos	1	1					
716	03-2003-0628	Controller TRansformer Pole-1	Nos	1	1					
717	03-2003-0629	Aux Relay Type-HH54-L 110 V 120 Hz	Nos	1	1					
718	03-2003-0630	Transformer Switch Type:61W2-3FD Rated Voltage:600V AC/125V DC	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
719	03-2003-0635	I.D Fan Motor/Asynchronous Machine Type=Y 1600-8/1250	Nos	1	1					
720	03-2003-0648	Rubber Ring and Seal 04D5334	Pcs	5	5					
721	03-2003-0652	Submerged Oil Pump O Ring YB20-19/22TTH	Pcs	5	5					
722	03-2003-0654	Auxiliary Relay ZJ3-3C	Pcs	19	19					
723	03-2003-0655	Signal Relay DX-15/S 220V DC	Pcs	29	29					
724	03-2003-0656	Signal Relay DX-15/S 0.025A	Pcs	57	57					
725	03-2003-0657	Signal Relay DX15/S 0.5A	Pcs	24	24					
726	03-2003-0661	rubber o ring	PCS	5	5					
727	03-2003-0662	rubber o ring	PCS	8	8					
728	03-2003-0663	rubber o ring	PCS	10	10					
729	03-2003-0664	rubber o ring	PCS	20	20					
730	03-2003-0665	rubber o ring	PCS	30	30					
731	03-2003-0666	rubber gusket	PCS	4	4					
732	03-2003-0667	rubber gusket	PCS	8	8					
733	03-2003-0668	rubber gusket	PCS	10	10					
734	03-2003-0669	rubber gusket	PCS	5	5					
735	03-2003-0670	rubber gusket	PCS	5	5					
736	03-2003-0672	Sliding rheostat 0.2A, 2K Ohm Make Harbin Elect: Works China	PCS	1	1					
737	03-2003-0675	INCOMING P.T JDZ-6TH Pr:Voltage: 6600V	Nos	1	1					
738	03-2003-0676	BUS P.T JDZJ-6TH Pr:Voltage 6600V	Nos	2	2					
739	03-2003-0680	Singl Phase voltage regulator 0250 v, 2kva	Pcs	2	2					
740	03-2003-0681	Single phase voltage regulator 0.250 V, 10 KVA	Pcs	2	2					
741	03-2003-0682	Multicuircle wound potentiator 3 KSW	Pcs	2	2					
742	03-2003-0684	Controll switch LW 5-15B 4815/3.	Nos	1	1					
743	03-2003-0685	Control switch LW 2.1.1.1./F4.	Nos	10	10					
744	03-2003-0686	Magnetic contactor CJ12-400/3 380V, 400A	Nos	1	1					
745	03-2003-0687	Magnectic contactor CJ 10-40 40A Voltage 380V.	Nos	12	12					
746	03-2003-0688	OIL LEVEL INDICATOR uzf2-250 th	Pcs	2	2					
747	03-2003-0690	AUXILIARY RELAY Z-13-3C/8.0	Pcs	5	5					
748	03-2003-0695	Control switch LWX2 1a.1a.1a/F4-x.	Nos	6	6					
749	03-2003-0698	Control switch LWX2-1.1.1.1.2.2-2/F4-8	Nos	1	1					
750	03-2003-0699	Control switch LWX2-1a.1a.1a.1a.1a.1a/F4-x	Nos	5	5					
751	03-2003-0700	Control switch tupe LWs-15B 4802/1	Nos	1	1					
752	03-2003-0702	Control switch type LWs-160 1690/6	Nos	1	1					
753	03-2003-0703	Control switch type LWX2-2	Nos	1	1					
754	03-2003-0704	Control switch type LWX2-2.6.6a	Nos	8	8					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
755	03-2003-0705	Control switch type LW2-Z	Nos	4	4					
756	03-2003-0706	Control switch type LW2-Z-1a.4.6.a	Nos	1	1					
757	03-2003-0707	Control switch type LW2-Z-1a.4.6a.40-40.20.20/F8	Nos	5	5					
758	03-2003-0708	Contro switch type Lw2-z-1a.4.6a.40.20/F/8	Nos	4	4					
759	03-2003-0709	Control switch type LW-H 1.1.1.1.1/F7	Nos	5	5					
760	03-2003-0710	Control switch type LW2-1.1.1.1.1/F4-x	Nos	5	5					
761	03-2003-0711	Control switch tupe Lw2-H-1.1.1.1.1.1.1/F7	Nos	6	6					
762	03-2003-0712	Control switch type LW2-1.1.1.1.1.1.1/F4-x	Nos	4	4					
763	03-2003-0713	Control switch type LW2-H.1.1.1.1.1.1/F7-x	Nos	6	6					
764	03-2003-0720	Rocker	Set	1	1					
765	03-2003-0723	Motorized Valve Gear Assembly Operating Limit Switch DZW-10	Nos	1	1					
766	03-2003-0724	Motorized Valve Gear Assembly Operating Limit Switch DZW-30	Nos	2	2					
767	03-2003-0726	Motorized Valve Gear Assembly Operating Limit Switch DZW-250	Nos	10	10					
768	03-2003-0729	Transformer for Excition Type-3STD 20 KBZPri-Voltage 550-530-510	Nos	1	1					
769	03-2003-0730	Transformer for Excitation Type-3STD20 KBZPRi-Voltage-420-400-380	Nos	1	1					
770	03-2003-0731	Voltage Divider Isolator Type 1A-H2AS AC-110V -5V input-DCO-10V	Set	1	1					
771	03-2003-0732	Control Transformer for AVR Type-3STD 100A Pri:V.530 V Sec:V.220V	Nos	1	1					
772	03-2003-0733	Voltage Sensor Relay SDV-DH2	Nos	1	1					
773	03-2003-0734	Synchronous Filter For AVR Type-CAC W1FGS-1145A	Nos	1	1					
774	03-2003-0736	RelayProtetion&AVROverLodaedForInstrumentAir Comp:Tyep-JR3620,05A	Nos	5	5					
775	03-2003-0738	Control Switch Type-LW5-15-1363-5	Nos	9	9					
776	03-2003-0743	Change Over Switch LW5-15 61/5Th	Nos	3	3					
777	03-2003-0744	Rotary Switch Type LW4-3/T-1573	Nos	1	1					
778	03-2003-0745	Air Space Baffle (Matching With the Generator 04D4655)	Pcs	10	10					
779	03-2003-0746	Generator Loss of Cooling Water time RelayType-BS-33 0-06 Sec 220	Nos	1	1					
780	03-2003-0747	Sleeve and Insulation	Nos	2	2					
781	03-2003-0748	Sleeve and Insulation Drg.No.05D2527	Nos	2	2					
782	03-2003-0749	Main Exciter Brush Support Assemply Parts(Plate Drg No.03C 7097)	Nos	2	2					
783	03-2003-0750	Main Exciter Brush Support Assemply Parts(Stud Bolt Drg#05D 2501)	Nos	2	2					
784	03-2003-0751	Main Exciter Brush Support AssemplyParts(InsulatedTubeDrg05D2499)	Nos	2	2					
785	03-2003-0752	Main Exciter Brush Support AssemplyParts(InsulatedTubeDrg04D2747)	Nos	2	2					
786	03-2003-0753	Main Exciter Brush SupportAssemplyParts(ConductorPlateDrg.03C7096	Nos	4	4					
787	03-2003-0754	Dry Type Transformer 1800kva		1	1					
788	03-2003-0755	Surge Absorber Type-ERZ820PS751	Set	1	1					
789	03-2003-0756	Discharge Contactor Type-CD234-PAS 1 DC-220V	Nos	1	1					
790	03-2003-0758	Surge Absorbing Capacitor Unit CAT#AF6620R3TXG0543	Nos	1	1					

IMDAD ALI QAZI
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

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1	2	3	4	5	6	7	8	10	11	12
791	03-2003-0759	Vapor Extractor Mottor Type=YB801-2 0.75KW 50HZ220-380V 3/2A	Nos	2	2					
792	03-2003-0760	Silp Ring Drawing No.038-1939	Nos	1	1					
793	03-2003-0761	Slip Ring Drwing No.38-1940	Nos	1	1					
794	03-2003-0765	Control Transformer Type=KB-150VA-380220V	Nos	14	14					
795	03-2003-0766	CastResinInsulatedVoltageTransformerType-JDZ 6-6.6(6.6/01.KV)	Nos	4	4					
796	03-2003-0767	Power Frequency Discharge Voltage(Type-FCD3-6)(Zno Hysw1-8/18.7)	Nos	6	6					
797	03-2003-0768	Current Relay DL-21 C/200 200A	Nos	10	10					
798	03-2003-0769	Current Relay DL-21 C/100 -100A	Nos	10	10					
799	03-2003-0770	Current Relay DL-21 C/0.3 0.3A	Nos	24	24					
800	03-2003-0771	Current Relay DL-11/0.2 0.2A	Nos	23	23					
801	03-2003-0772	Tme Relay DS - 22/220 VDC	Nos	21	21					
802	03-2003-0773	Auxlliary Relay ZJ3-1C/80 220 VDC	Nos	19	19					
803	03-2003-0774	Auxillary Relay ZJ3-1C/44 220VDC	Nos	14	14					
804	03-2003-0781	Current Transfomer LZZQB 6/300/5A	Nos	6	6					
805	03-2003-0784	CastResinInsulatedCurrentTransformerType-LZZQ B6-10Speci:300/5 A	Nos	6	6					
806	03-2003-0785	CastResinInsulatedCurrentTransformerType-LZZQ B6-10Speci:100/5 A	Nos	19	19					
807	03-2003-0786	Vacume Circuit Breaker Type-ZN12-12/2500.31.5KA Voltage-60Kv	Nos	2	2					
808	03-2003-0791	Tonguled Washer M36 For Bearing Brackets Part#G-004Drg.Steel(SPCC	Nos	20	20					
809	03-2003-0792	Tonguled Washer M16 For Bearing Brackets Part#G-036Drg.Steel(SPCC	Nos	8	8					
810	03-2003-0793	TonguledWasherM42ForCoilendCoverSupportPart#G-076Drg.Steel(SPCC	Nos	8	8					
811	03-2003-0794	Claw Washer M16 for Fan Guide Part#G-077 JEM STEEL	Nos	48	48					
812	03-2003-0795	Packing For Slip Ring Packing Ring#G096 Drg.MaterialMo33-838691C2	Nos	1	1					
813	03-2003-0796	Cushion 30x50x1000 for SL Cover Part#G118 Drg.KRS18-504c1/Neo	Nos	2	2					
814	03-2003-0797	Roller for H2 Cooler Part#GI-G Drg.M940-880667P253	Nos	4	4					
815	03-2003-0798	Bolt For H2 Cooler Part#G164 Drg#M761-842425A P12	Nos	4	4					
816	03-2003-0799	O-Ring Packing P135-N Cl-B For Vacume Tank Drg.J15/P135-N CL-B	Nos	3	3					
817	03-2003-0801	Resin for Gen Stator Coil (1 Tin=1000G)	Tin	1	1					
818	03-2003-0802	Hardening for Gen	Tin	1	1					
819	03-2003-0803	Resin For Gen Stator Coil	Tin	1	1					
820	03-2003-0804	Stator 1Kg Can for Gen Stator Coil Part#G-239 Drg.EH866	Tin	1	1					
821	03-2003-0806	Varnish 16Kg Can for Gen Stator Coil Part# G-241 Drg.TVA14-10	Tin	1	1					
822	03-2003-0807	Solvent 14Kg Can For Gen Stator Coil Part#G-242 Drg.TTE8303	Tin	1	1					
823	03-2003-0808	O-Ring P40 N for Piping og Gas Supply unit Part#G-292Drg.JIS/c1-B	Nos	15	15					
824	03-2003-0810	ORing P60N for Piping of B-Valve Rack for UnionPart#G-311Drg.CL-B	Nos	2	2					
825	03-2003-0811	ORing P45N for Seal Oil StorageTankPart#G323 Drg.M793-2456P20CL-B	Nos	4	4					
826	03-2003-0812	Aradite (F) for Bearing Bracket	Tin	1	1					

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1	2	3	4	5	6	7	8	10	11	12
827	03-2003-0813	Hardware 0.5Kg forBearingBracketPart#G-329Drg.M618111966P16/Hy956	Tin	1	1					
828	03-2003-0815	A.CExciterSetDrawingNo.01J2301ForTurboGeneratorType-QFSN-210-2	Set	1	1					
829	03-2003-0816	AM-Meter 42L6 200/5A	Nos	24	24					
830	03-2003-0817	Vacume Circut Breaker Type-JZ1-10-40.6.6KV 2500A	Nos	1	1					
831	03-2003-0818	Vacum Circuit Breaker Type-JYZ2-10-02-6.6KV 800A	Nos	1	1					
832	03-2003-0820	DiaphramForMainConservativeTankOfMainTransformer(T-sfp725000/220)	Nos	1	1					
833	03-2003-0821	Diaphram 220KVCabilTerminal (T-SFP725000)Lenght-3000mm dia-1250mm	Nos	1	1					
834	03-2003-0823	LW5-16B4815/5T.H	Nos	6	6					
835	03-2003-0824	LW4-3T 1537	Nos	5	5					
836	03-2003-0825	LW2-740-20/20/F4	Nos	6	6					
837	03-2003-0826	LWX2-7 a-4-6a 40-201FU-8	Nos	10	10					
838	03-2003-0829	Rotor Of Boiler Feed Water Pump Motor SP-OEA-510-829 Speed.1482rp	Nos	1	1					
839	03-2003-0850	Support break assy..	pcs	5	5					
840	03-2003-0851	Bracing bindind ring	pcs	2	2					
841	03-2003-0853	insulation bushing	pcs	78	78					
842	03-2003-0865	T type insulation block	p	9	9					
843	03-2003-0873	Limit Swich Tyep-X19K-B, 380/220V, 5A CHINA	NOS	19	19					
844	03-2003-0874	Limit Swich Type-JLXK-11, 380V, 5A MAKE-CHINA	NOS	40	40					
845	03-2003-0875	Timer DR Type:JS20-10/00, 220V, Make China	Nos	10	10					
846	03-2003-0876	D.C Volt Meter 0-75 V Type: 59c2-v ~015 China	Nos	2	2					
847	03-2003-0877	A.C Voltmeter 0~450V Type.59L1 V~015 China	Nos	1	1					
848	03-2003-0878	D.C Ampere Meter (0~500A) Type:59C2-A~015	Nos	1	1					
849	03-2003-0884	Synchronizing Meter MZ-10 Single Phase 100V	Nos	1	1					
850	03-2003-0886	Differantal Relay LCD-12	Nos	1	1					
851	03-2003-0888	Relay DZ51/400 220V De	Nos	2	2					
852	03-2003-0890	Fuse RL1 60/30A	Nos	4	4					
853	03-2003-0892	Motor For Make-up Pump Type-355-4 Power-160KW Speed-1482	Nos	1	1					
854	03-2003-0893	Hydrogin gas cooler assy..	pcs	8	8					
855	03-2003-0894	Synchronizing TransformerType-BK-100 100VA input.57VOut-100-105	Nos	2	2					
856	03-2003-0895	H.V Fuse for Generator P.T Type-RN2-20/0.5 Rated Voltage-20KV	Nos	27	27					
857	03-2003-0896	Vacum Circult Breaker Without Trolley Type-ZN12-12/1250-31.5	Nos	4	4					
858	03-2003-0899	Model No.DZ-20 0.37KW 1.6&2.4Amp 18rpm	Nos	3	3					
859	03-2003-0900	Model No.DZ-45 1.1 KW 4.5Amp: 24RPM	Nos	1	1					
860	03-2003-0902	Model-No.DZ-180 5.5KW 11AMP:24rpm	Nos	3	3					
861	03-2003-0903	Model No.DZ-400 YDF-422 7.2 KW 15Amp:24rpm	Nos	5	5					
862	03-2003-0904	Circulating WaterPump YL1600-12/1730-1AIncludingItsBoth Bearing	Nos	1	1					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
863	03-2003-0914	Magnetic Contactor Type-CJ10-75/100 Turning Gear	Nos	4	4					
864	03-2003-0915	Magnetic Contactor Type-CJ12-250/3 Voltage 380 V AC	Nos	4	4					
865	03-2003-0916	Magnetic Contactor Type-CJ10-150 380V AC	Nos	6	6					
866	03-2003-0917	Magnetic Contactor Type-CJ10-60	Nos	2	2					
867	03-2003-0919	Magnetic Contactor Type-CJ12-400/3,400A	Nos	72	72					
868	03-2003-0920	Teflon Connection Assembly Drawing#(03C5308 For Generator Oil Sea	Nos	2	2					
869	03-2003-0921	Watch Protentio Meter 330 Type-WXD3-12-2W-830	Nos	6	6					
870	03-2003-0924	Dry Type Transformer 500KVA HV:6.6KV LV:0.4KV (12x2.5%)	Nos	1	1					
871	03-2003-0927	FlameProof3PhaseInducationMotorTyp-YB-315M2-4-WOT=160(1481RPM)	Nos	6	6					
872	03-2004-001	DC Ameter C-65A	Nos.	1	1					
873	03-2004-002	DC Ameter C-31A	Nos.	1	1					
874	03-2004-003	DC Volt meter C-65-V,0.5	Nos.	1	1					
875	03-2004-004	DC Volt meter	Nos.	1	1					
876	03-2004-005	DC Volt meter & Ameter C41-AV 0.2	Nos.	2	2					
877	03-2004-006	Ac Ameter D9-A,0.5	Nos.	2	2					
878	03-2004-007	Ac Ameter D9-A,0.5 2.5/5A	Nos.	1	1					
879	03-2004-008	Ac Ameter D9-A,0.5 2.5/10A	Nos.	1	1					
880	03-2004-009	Ac Ameter T69-A 0.5	Nos.	3	3					
881	03-2004-0010	Ac Volt Ameter T51-V 0.5	Nos.	1	1					
882	03-2004-0011	Ac Volt Ameter	Nos.	3	3					
883	03-2004-0012	Ac Ameter & Volt Meter T24-AV 02	Nos.	2	2					
884	03-2004-0013	Watt Meter (For Three Face)	Nos.	1	1					
885	03-2004-0016	Current Transfermer HL36,0.2	Nos.	1	1					
886	03-2004-0017	Potential Transfermer 6000V	Nos.	2	2					
887	03-2004-0019	Revolution Meter LZ30,0-12000V	Set	1	1					
888	03-2004-0020	Teater XFY-1	Set	2	2					
889	03-2004-0021	Auto Muggar	Nos.	1	1					
890	03-2004-0024	Cycle Counter 504 Type 110/220V	Nos.	1	1					
891	03-2004-0026	Illuminatiuon Level Meter	Nos.	1	1					
892	03-2004-0027	Variable Resistance	Nos.	2	2					
893	03-2004-0028	Variable Resistance 1A	Nos.	1	1					
894	03-2004-0029	Variable Resistance 4.5A	Nos.	2	2					
895	03-2004-0031	Var Meter 5A	Nos.	1	1					
896	03-2004-0032	Digital Phase Faqueney Meter 400V 50HZ	Nos.	1	1					
897	03-2004-0033	Mattisecond Meter 43B	Nos.	1	1					
898	03-2004-0037	Phase Chealeer D3 0/5/10A	Nos.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
899	03-2004-0038	Rekay Testing Device	Nos.	2	2					
900	03-2004-0039	Meter Resistance Box Zx70	Nos.	3	3					
901	03-2004-0040	Digital Multimeter 500V	Nos.	1	1					
902	03-2004-0041	Syn Croscope With Photo Graphic Attachment SC16	Nos.	1	1					
903	03-2004-0042	DC Volt Meter D76-V	Nos.	1	1					
904	03-2004-0044	Rotary For WH	Nos.	1	1					
905	03-2004-0045	Dial Variable Reaistance	Nos.	2	2					
906	03-2004-0046	High Voltage Test Set	Nos.	1	1					
907	03-2004-0051	Precission Pressure Meter YB-160	Nos.	1	1					
908	03-2004-0052	Precission Pressure Meter YB-160 0-1.6	Nos.	1	1					
909	03-2004-0053	Precission Pressure Meter YB-160 0-2.5	Nos.	1	1					
910	03-2004-0054	Precission Pressure Meter YB-160 0-1	Nos.	1	1					
911	03-2004-0055	Precission Pressure Meter YB-160 0-4	Nos.	1	1					
912	03-2004-0056	Precission Pressure Meter YB-160 0-6	Nos.	1	1					
913	03-2004-0057	Precission Pressure Meter YB-160 0-10	Nos.	1	1					
914	03-2004-0067	Gas Analyzer SB-70-2	Nos.	1	1					
915	03-2004-0070	Acid Measurement Meter PHs-2 Q-14PH	Nos.	2	2					
916	03-2004-0071	Digital Pressure Meter 901B0-2.5	Nos.	1	1					
917	03-2004-0072	Digital Pressure Meter 901B0-1	Nos.	1	1					
918	03-2004-0073	Digital Pressure Meter 901B0-60	Nos.	1	1					
919	03-2004-0075	Resistance Box ZX-25A	Nos.	1	1					
920	03-2004-0076	Resistance Box ZX-21A	Nos.	1	1					
921	03-2004-0077	Multi-Pan Recorder 3061-31	Nos.	1	1					
922	03-2004-0078	Standered DC V/A Meter YJB-1	Nos.	2	2					
923	03-2004-0079	Digital DC V/A Q840A 220v	Nos.	1	1					
924	03-2004-0080	Standered Penumatic Pressure Valve QCD - 200 0.2 kg	Nos.	2	2					
925	03-2004-0081	Digital Revolution Meter XJP-50	Nos.	1	1					
926	03-2004-0082	Digital Revolution Meter SZG-20A	Nos.	1	1					
927	03-2004-0083	Potential Meter UJ-36	Nos.	1	1					
928	03-2004-0085	Heating Condut Type Hyderogen analyzer RD 2059 0-6%	Nos.	1	1					
929	03-2004-0086	Pocket ossilation Measurement Meter GZ - 413	Nos.	1	1					
930	03-2004-0087	Oil Bath DL-501	Nos.	1	1					
931	03-2004-0088	Tube Type Electric Oven With Temp Controller SK-2-12	Set	1	1					
932	03-2004-0089	PT Rh - Pt Thermal Couple LB-3 300-1300c	Nos	2	2					
933	03-2004-0090	Pt resistor Pt100	Nos	2	2					
934	03-2004-0091	Temperature Meter WLB-21 30-300c	Nos	35	35					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
935	03-2004-0092	Signal Generator For Calibration DPX-4010	Nos	1	1					
936	03-2004-0093	Oscillograph SR-69 100 Meter	Nos	1	1					
937	03-2004-0094	Oscillograph RS-48 21 20Mhz	Nos	1	1					
938	03-2004-0099	Magnetic Heating Agitator Type 78-1	Nos	1	1					
939	03-2004-00100	Electric Agitator 2060-2F	Nos	1	1					
940	03-2004-00101	Desatter	Nos	1	1					
941	03-2004-00102	Agitater With Timer dbJ-621	Nos	1	1					
942	03-2004-00103	Indigo - Blue and Red Indicator	Nos	2	2					
943	03-2004-00104	Electric Contrifuger LD4-2	Nos	1	1					
944	03-2004-00105	Analysis Balance TG-328 B	Nos	1	1					
945	03-2004-00106	Presiccison Balance (Class I) TG 128	Nos	1	1					
946	LOCH-2	Amonia Gas Cly(EMPTY)	Nos	6	6					
947	LOCH-3	Nitero..Gas Cly	Nos	12	12					
948	LOCH-4	Industrises Gas Analyzer	Set.	4	4					
949	LOCH-6	Oxygen Anlayzer	Set.	1	1					
950	LOCH-7	Oxygen Anlayzer Of Thermo Chemical	Set.	1	1					
951	LOCH-10	H2-Anlayzer (RD-2059)	Nos	5	5					
952	03-1014-004	DC Accondnt Oil Pump Moter 13KW	Nos	1	1					Foc
953	03-1014-005	Bearing Gen..Moter 30KW	Nos	1	1					
954	03-1014-006	Dc Pump Moter 5.5KW	Nos	1	1					Foc
955	03-1014-008	Dc Pump Moter 4KW	Nos	1	1					
956	03-1014-0012	Air Compressor Moter 130KW	Nos	1	1					
957	03-1014-0013	Roots Blower Moter 15KW	Nos	1	1					
958	03-1014-0014	Moter Mixer 11KW	Nos	6	6					Foc
959	03-1014-0015	Scraper Moter 1.5KW	Nos	1	1					
960	03-1014-0017	Lubrication Water Pump Moter 5.5KW	Nos	1	1					
961	03-1014-0023	FD Fan Moter 1470 RPM 380V	Nos	1	1					
962	03-1014-0024	Valve ActuaTing Moter 1.1KW	Nos	1	1					
963	03-1014-0027	Valve ActuaTing Moter 2.2KW 1330RPM	Nos	1	1					
964	03-1014-0028	Hose Boiler Moter 55KW 380V	Nos	1	1					
965	03-1014-0029	Three Face Induction Moter 5.5KW	Nos	2	2					Foc
966	03-1014-0030	Moter Type Ila4-253HP80	Nos	3	3					Foc
967	03-1014-0031	Fd Fan Moter 37KW 1474RPM	Nos	1	1					
968	03-1014-0032	HP-1 Moter Of Chiller Plant 3.7KW 1420RPM 380V	Nos	1	1					
969	03-1014-0037	Cwp 3 Chiller Plant Moter 5.5KW 380V 1440RPM	Nos	1	1					
970	03-1014-0040	Cwp 1 Chiller Plant Moter 22KW 380V 1450RPM	Nos	1	1					

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1	2	3	4	5	6	7	8	10	11	12
971	03-1014-0041	COP-2 Chiller Plant Moter 7.5KW 380V 1440RPM	Nos	1	1					
972	03-1014-0042	Injection Moter 3.6KW	Nos	1	1					Foc
973	03-1014-0043	Ac Injection Moter (Old & Used)	Nos	4	4					Foc
974	03-1014-0045	Injection Moter (Old & Used) HP-40 58A 1470RPM	Nos	3	3					Foc
975	03-1014-0046	Ro Decnting Demipit Moter 1.5KW 380V 6.4A	Nos	2	2					Foc
976	03-1014-0047	Axial Fan Moter 380V 0.25KW	Nos	1	1					Foc
977	03-1014-0048	Valve Moter HS-313 1330RPM	Nos	1	1					Foc
978	03-1014-0051	Fume Extractor Moter 2.2KW	Nos	1	1					Foc
979	03-1014-0052	Rest Water Pump Moter 6.6KW	Nos	6	6					Foc
980	03-1014-0053	Acid UnLoding Moter	Nos	4	4					Foc
981	03-1014-0054	Three Face Moter 0.4KW 2900 RPM	Nos	1	1					Foc
982	03-1014-0055	Elect Moter A02-5014 (Small)	Nos	1	1					Foc
983	03-1014-0056	Elect Moter 7.5KW 1440RPM	Nos	1	1					Foc
984	03-1014-0057	Air Blower Moter 7.5KW 1480RPM	Nos	4	4					Foc
985	03-1014-0059	Wast Water Transfamer Pump Moter 22KW 2940RPM	Nos	1	1					Foc
986	03-1014-0060	Wast Water Pump Moter 2940RPM	Nos	5	5					Foc
987	03-1014-0061	Drain Pit Pump Moter 11KW 2930RPM	Nos	1	1					Foc
988	03-1014-0062	Mixer Asitator Fainal Control Moter 2.2KW	Nos	2	2					Foc
989	03-1014-0063	Yard Drain Pit Pump Moter 3KW 2870RPM	Nos	2	2					Foc
990	03-1014-0064	Pump Moter 2.2KW 2840RPM	Nos	5	5					Foc
991	03-1014-0065	Dilate Alkali Tank Asitat Moter 1.5KW	Nos	4	4					Foc
992	03-1014-0066	HCL Insuction Pump Moter 2.2KW	Nos	3	3					Foc
993	03-1014-0067	Air Blower Lub Oil Pump Moter 25KW	Nos	3	3					Foc
994	03-1014-0068	HCL Regulated Moter	Nos	4	4					Foc
995	03-1014-0069	Operating Box Panel (Larg)	Nos	6	6					Foc
996	03-1014-0070	Operating Box Panel (Small)	Nos	43	43					Foc
997	03-1014-0072	Colony Drinking Moter 110KW 380V 2980RPM	Nos	5	5					Foc
998	03-1014-0074	MECh;Filter Equip;Moter 30KW 2900RPM	Nos	4	4					Foc
999	03-1014-0075	Induction Moter 37KW	Nos	2	2					Foc
1000	03-1014-0076	Gas Reculating Moter 6.6KV 22.KW 21.7A	Nos	2	2					Foc
1001	03-1014-0079	Three Face Moter 110KW 2985RPM	Nos	1	1					Foc
1002	03-1014-0081	Ac Three Face Induction Moter 18.5KW 2940RPM	Nos	1	1					
1003	03-1014-0085	Ac Three Face Induction Moter 2.2KW 1420RPM 400V	Nos	1	1					
1004	03-1014-0087	Moter Three Face 1.5KW	Nos	1	1					Foc
1005	03-1014-0090	Moter By Pass 7.5KW 1440RPM	Nos	1	1					Foc
1006	03-1014-0091	Induction Moter 160KW 400V	Nos	1	1					Foc

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1	2	3	4	5	6	7	8	10	11	12
1007	03-1014-0092	Moter 37KW With Foundation	Nos	1	1					Foc
1008	03-1014-0095	Three Face Induction Moter 11KW 1400RPM	Nos	1	1					Foc
1009	03-1014-0099	AOH Soot Blower Moter 1.1KW 1400RPM	Nos	3	3					
1010	03-1014-00102	Moter 0.52A 204	Nos	3	3					Foc
1011	03-1014-00103	Moter 57A	Nos	2	2					Foc
1012	03-1014-00104	Moter 5.5KW 11A	Nos	4	4					Foc
1013	03-1014-00105	Moter 4.4A 2.2KW	Nos	4	4					Foc
1014	03-1014-00106	Moter 0.68A 2KW	Nos	2	2					Foc
1015	03-1014-00107	Moter 3.7KW	Nos	2	2					Foc
1016	03-1014-00108	Three Face Induction Moter 380V 1400RPM	Nos	35	35					Foc
1017	03-1014-00109	Three Face Induction Moter 1.5KW 380V 960RPM	Nos	53	53					Foc
1018	03-1014-00110	Dame Water Moter 15KW	Nos	1	1					Foc
1019	03-1014-00111	Turning Gar Moter 30KW 380V 590RPM	Nos	1	1					Foc
1020	03-1014-00113	Chem; Moter	Nos	1	1					
1021	03-1014-00114	CW Pump Moter 1600KW 495RPM	Nos	1	1					Foc
1022	03-1014-00115	Starting Pump Moter 200KW 380V 2980RPM	Nos	1	1					
1023	03-1014-00116	Jacking Oil Pump Moter 18.5KW 1470RPM 380V	Nos	2	2					
1024	03-1014-00118	Re Genration Chemical Pump Moter 2.2KW 380V	Nos	1	1					
1025	03-1014-00119	Solution Chemical Pump Moter 380V	Nos	1	1					
1026	03-1014-00120	Solution Chemical Pump Moter 380V 3.7KW	Nos	1	1					
1027	03-1014-00121	Moter Stater 160KW 0.4KV 301A	Nos	2	2					Foc
1028	03-1014-00123	Yard Pit Moter 5.5KW 11A 1400RPM	Nos	1	1					Foc
1029	03-1014-00124	Moter Without NumşPlate	Nos	1	1					Foc
1030	03-1014-00125	Moter Without NumşPlate	Nos	1	1					Foc
1031	03-1014-00126	Moter Without NumşPlate	Nos	3	3					Foc
1032	03-1014-00127	Three Face Moter Tzpe JS+128-10 JB-563-64	Nos	3	3					Foc
1033	03-1014-00128	Moter 5.5KW 380-660V With Foundation	Nos	1	1					Foc
1034	03-1014-00129	Three Face Induction 1.5KW 380V 2860RPM	Nos	1	1					Foc
1035	03-1014-00130	Moter	Nos	1	1					Foc
1036	03-1014-00131	Moter	Nos	3	3					Foc
1037	1011-013	Machine screw 1.5"	Pkt	3	3					
1038	1011-018	Warnished	Tin	61	61					
1039	1011-034	Fuse 6Amp	Nos	371	371					
1040	1011-035	Fuse 10Amp	Nos	430	430					
1041	1011-036	Fuse 15Amp	Nos	446	446					
1042	1011-037	Round HRS Fuel	Nos	345	345					

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1	2	3	4	5	6	7	8	10	11	12
1043	1011-038	Round HRS Fuel	Nos	375	375					
1044	1011-039	Round HRS Fuel	Nos	475	475					
1045	1011-040	Round HRS Fuel	Nos	494	494					
1046	1011-042	Round HRS Fuel	Nos	425	425					
1047	1011-043	Round HRS Fuel	Nos	421	421					
1048	1011-044	Round HRS Fuel	Nos	500	500					
1049	1011-045	Round HRS Fuel	Nos	166	166					
1050	1011-046	Grip Type Fuse	Nos	27	27					
1051	1011-047	Grip Type Fuse	Nos	479	479					
1052	1011-048	Grip Type Fuse	Nos	464	464					
1053	1011-049	Grip Type Fuse	Nos	500	500					
1054	1011-050	Grip Type Fuse	Nos	482	482					
1055	1011-051	Grip Type Fuse	Nos	481	481					
1056	1011-064	Bottle Fuel 10Amp	Nos	110	110					
1057	1011-098	cylyndrical Fuse 4 Amp	Nos	159	159					
1058	1011-099	cylyndrical Fuse 6 Amp	Nos	199	199					
1059	1011-0100	cylyndrical Fuse 10 Amp	Nos	240	240					
1060	1011-0101	cylyndrical Fuse 30 Amp	Nos	149	149					
1061	1011-0102	cylyndrical Fuse 50 Amp	Nos	200	200					
1062	1011-0103	cylyndrical Fuse 60 Amp	Nos	134	134					
1063	1011-0104	cylyndrical Fuse 100 Amp	Nos	128	128					
1064	1011-0106	Base For Cylindrical Fuse 30,40,60 Amp	Nos	22	22					
1065	1011-0109	Cattidge Fuse 10 Amp	Nos	19	19					
1066	1011-0110	Bacolite Sheet 1/2 " 4 x 4 "	Nos	6	6					
1067	1011-0111	Bacolite Sheet 1 " 4 x 4 "	Nos	6	6					
1068	1011-0112	Bulk Head Light	Nos	7	7					
1069	1011-0144	Aluminum Aunt Conducter	Mtr	4300	4300					
1070	1011-0146	H.T Insulator	Nos	392	392					
1071	02-1011-0148	11K.V Disk Insulator	Nos	8	8					
1072	02-1011-0149	D Shakle	Nos	250	250					
1073	02-1011-0164	PGC Clamp (i) (Double)	Nos	912	912					
1074	02-1011-0165	PGC Clamp (i) (Siangle)	Nos	3244	3244					
1075	02-1011-0167	Wooden Arms Grasing	Nos	555	555					
1076	02-1011-0169	Aa Kv Dearl Art Clamp (Dead and Clamp)	Nos	155	155					
1077	02-1011-0170	11 KV Dearl Ear Clamp	Nos	362	362					
1078	02-1011-0171	Transformer Mate Flate Double Set 11 KV	Nos	27	27					

IMDAD ALI QAZI
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

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1	2	3	4	5	6	7	8	10	11	12
1079	02-1011-0172	L.T Poles (Struction)	Set	10	10					
1080	02-1011-0180	Batton Clep 2 1/2 A/106 12x36	Nos	431	431					
1081	02-1011-0181	Connector	Nos	71	71					
1082	02-1011-0182	C.T.S 1000~ 660Volts	Nos	5	5					
1083	02-1011-0183	Proselien Cap ~R 072	Nos	454	454					
1084	02-1011-0187	Fuse 300 Amp	Nos	23	23					
1085	02-1011-0188	Fuse 200 Amp 550V:	Nos	16	16					
1086	02-1011-0189	Fuse 10 Amp 500V:	Nos	13	13					
1087	02-1011-0190	Resistence No Dr-46	Nos	6	6					
1088	02-1011-0191	resistence 322x339	Nos	2	2					
1089	02-1011-0196	Pvc Tee 3/4	Nos	205	205					
1090	02-1011-0199	Rel Bear Socket 1/2 Pvc	Nos	100	100					
1091	02-1011-0202	Insulated terminal for cable 1.30 (CABILE THUMBILE)	Nos	3419	3419					
1092	02-1011-0203	Relay PP3v	Nos	3	3					
1093	02-1011-0204	HRC Fuse With Indication 500A	Nos	8	8					
1094	02-1011-0205	Socket Insulation 2 1/2"	Nos	160	160					
1095	02-1011-0206	English Electric TCP BBC 100A	Nos	20	20					
1096	02-1011-0208	T.I.A-20 HRC Fuse	Nos	23	23					
1097	02-1011-0209	T.I.A-32 HRC Fuse	Nos	24	24					
1098	02-1011-0210	T.I.A-50 HRC Fuse	Nos	20	20					
1099	02-1011-0211	T.I.A-63 HRC Fuse	Nos	20	20					
1100	02-1011-0212	T.C A 80 Fuse	Nos	17	17					
1101	02-1011-0213	T.c P 100 H~E Fuse	Nos	20	20					
1102	02-1011-0214	T.C P125 H~E Fuse	Nos	15	15					
1103	02-1011-0215	TT.F 200 H~E Fuse	Nos	1	1					
1104	02-1011-0216	TRF 250 H~E Fuse	Nos	7	7					
1105	02-1011-0217	TKF 500 H~E Fuse	Nos	16	16					
1106	02-1011-0218	TTM 400 H~E Fuse	Nos	5	5					
1107	02-1011-0219	TLM 800 H~E Fuse	Nos	3	3					
1108	02-1011-0232	Relay Type PP8A 3Y	Nos	3	3					
1109	02-1011-0236	D-Transformer 100Kv	Nos	5	5					
1110	02-1011-0237	D-Transformer 50Kv	Nos	1	1					
1111	02-1011-0238	D-Transformer 200Kv	Nos	2	2					
1112	02-1011-0244	Current Transformer Off Size	Nos	22	22					
1113	02-1011-0245	Short Cercuite With Terminal Of External 500V 10 Amp	Nos	10	10					
1114	02-1011-0246	Resister DRYO 44	Nos	12	12					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1115	02-1011-0247	Card R.2.1756000HZIA360	Nos	1	1					
1116	02-1011-0248	TWO Ft. Tube Rod Shade	Nos	2	2					
1117	02-1011-0249	Table 4 Pair	Rol	1	1					
1118	02-1011-0250	Table 1 Pair	Rol	1	1					
1119	02-1011-0251	Table Lugs 1.25-4	Nos	4	4					
1120	02-1011-0252	Capacitor 25 uf	Nos	18	18					
1121	02-1011-0253	Capacitor 20 uf	Nos	10	10					
1122	02-1011-0254	Pilot Light SL 102220	Nos	39	39					
1123	02-1011-0255	Motor Asahi 1.6Amp	Nos	1	1					
1124	02-1011-0256	Black POS 56-IMR-0116	Nos	2	2					
1125	02-1011-0257	Alaram Switch	Nos	1	1					
1126	02-1011-0259	Bottle Fues 10 Amp	Nos	22	22					
1127	02-1011-0260	Viber Switch 66WSAC No:3019	Nos	2	2					
1128	02-1011-0261	Magnetrac	Nos	1	1					
1129	02-1011-0262	Sugino Atuomatic Voltage regulator	Nos	2	2					
1130	02-1011-0263	Kilo Amp DC Beade	Nos	1	1					
1131	02-1011-0266	Ac Volt Meter	Nos	7	7					
1132	02-1011-0267	Synchro Scop Type	Nos	1	1					
1133	02-1011-0268	Voltage Transfere	Nos	2	2					
1134	02-1011-0269	Transmitter DC 4-20 MA	Nos	1	1					
1135	02-1011-0270	Transmitter 707-600	Nos	1	1					
1136	02-1011-0272	Climax Auto Transform	Nos	2	2					
1137	02-1011-0273	Operation Coil 17.200 OR1HB 14A	Nos	40	40					
1138	02-1011-0274	Transformer T-60V	Nos	1	1					
1139	02-1011-0277	Meter (Old Condition)	Nos	3	3					
1140	02-1011-0280	Magnetic Starter 37KW	Nos	1	1					
1141	02-1011-0282	Transformer Stock 12KW	Nos	1	1					
1142	02-1011-0283	Transformer Stock 16.6KW	Nos	1	1					
1143	02-1011-0285	H.P 1 Moter at Chiller Plant Type IK.3 Phase	Nos	1	1					
1144	02-1011-0297	Traviling Log Transformer (TDGe)	Nos	1	1					
1145	02-1011-0298	Heater Rod	Nos	3	3					
1146	02-1011-0303	Battery Charger	Nos	1	1					
1147	02-1011-0306	Phase Sequency Indicator	Nos	2	2					
1148	02-1011-0308	Thimble 30A/Lux 30A	Nos	89	89					
1149	02-1011-0329	Safty Bell Leather	Nos	3	3					
1150	02-1011-0335	Charge Over Switches Type (a) Lw-2-5.5/F4-X	Nos	5	5					

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1	2	3	4	5	6	7	8	10	11	12
1151	02-1011-0336	Charge Over Switches Type Lw-22-2-2222 F4-8X	Nos	4	4					
1152	02-1011-0338	Charge Over Switch Type LWS-W-6A.6.1/F6	Nos	3	3					
1153	02-1011-0339	Charge Over Switch Type Lw6-8/B 171	Nos	3	3					
1154	02-1011-0341	Charge Over Switch Type Lw5-150 1689/6	Nos	2	2					
1155	02-1011-0345	Charge Over Switch Type Lw2-H11111 F7-X	Nos	3	3					
1156	02-1011-0346	Charge Over Shitch Type LW5-15 F1461/5	Nos	5	5					
1157	02-1011-0347	Control switch Type LWs-Z-1A 40.20 20 41F8	Nos	5	5					
1158	02-1011-0349	Rotary Control Switch LWX2-Z-1a.4.6a.40.20.20/F4-8 380v/220V.5A	Nos	34	34					
1159	02-1011-0350	Control switch Type LW2.Z1A,4,6x-04-20-20 41/F8	Nos	3	3					
1160	02-1011-0351	Control switch Type LW2.Z1A,6A 40-20-20 4F8	Nos	5	5					
1161	02-1011-0352	Control switch Type LW2-X-10.4.60-40-20.201A8x06-001-105-7	Nos	3	3					
1162	02-1011-0353	Control switch Type LW2-X-10.4.60-40-20.20 4/Fs	Nos	5	5					
1163	02-1011-0354	Synchornzing Switch Type LW2 H-1.1.1.1.1.1/F7-X	Nos	5	5					
1164	02-1011-0355	Synchornzing Switch Type LW2 H-1.1.1.1.1=1/F-7-X	Nos	5	5					
1165	02-1011-0356	Synchornzing Switch Type LW2 H-1.1/F7-X	Nos	5	5					
1166	02-1011-0357	Synchornzing Switch Type LW2 H-1.1/F7	Nos	5	5					
1167	02-1011-0358	Power Cource Switch Type Lw-H.1.1.1.1/F7-x	Nos	3	3					
1168	02-1011-0359	Bus Voltage Charge over Switch Type LW2-W-6A,6.1/F6	Nos	1	1					
1169	02-1011-0360	Insulation Monitor Charge Over Switch Type Lw2-Z-1.17/F4-x	Nos	3	3					
1170	02-1011-0361	BloCKing Switch Type Lw2-1-1-1-1-1-1-1/F4-X	Nos	3	3					
1171	02-1011-0377	Butter Clip 2" 2 1/4	Nos	764	764					
1172	02-1011-0378	Butter Clip 1 1/4" 13/4" 1 1/2"	Nos	1038	1038					
1173	02-1011-0382	Bicom Tape	Nos	188	188					
1174	02-1011-0399	Indication Bulb 48V	Nos	213	213					
1175	02-1011-0403	Indication Bulb 3V	Nos	14	14					
1176	02-1011-0406	Automatic type Air Cuircket Breaker ME3200	Nos	2	2					
1177	02-1011-0407	Automatic type Air Cuircket Breaker ME2500	Nos	1	1					
1178	02-1011-0420	Card EKB-1000	Nos	11	11					
1179	02-1011-0424	G.I Pipe Shade 125W	Nos	18	18					
1180	02-1011-0427	AC Amp. Meter 30A	Nos	1	1					
1181	02-1011-0428	Volt Meter 300V	Nos	2	2					
1182	02-1011-0455	Royal Plug	Nos	37	37					
1183	02-1011-0459	Iron Cold Main Switch	Nos	80	80					
1184	02-1011-0462	Magenatic Stator 10HP	Nos	3	3					
1185	02-1011-0463	OCR Checker for OCW	Nos	1	1					
1186	02-1011-0465	Cycle Counter 220V	Nos	1	1					

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1187	02-1011-0468	Meger 500V/1wme	Nos	1	1					
1188	02-1011-0471	E/Meter	Nos	1	1					
1189	02-1011-0476	Fuse Cartage 100A	Nos	12	12					
1190	02-1011-0493	QR Phase RSD 750V	Nos	6	6					
1191	02-1011-0494	Fuse Indicator RZS1000	Nos	8	8					
1192	02-1011-0504	Winding Insulation Sleeve 2mmx1000mm	Nos	24	24					
1193	02-1011-0505	Glass Sleeve 3"	Nos	16	16					
1194	02-1011-0508	Glass Sleeve 8"	Nos	16	16					
1195	02-1011-0529	Vacume Circuit Breaker BAS416	Nos	1	1					
1196	02-1011-0530	Closed Cakch 220 K	Nos	1	1					
1197	02-1011-0531	Roller Level No 30	Nos	1	1					
1198	02-1011-0532	Roller Cakch	Nos	1	1					
1199	02-1011-0533	Trik Cahck	Nos	1	1					
1200	02-1011-0534	Closing Roler	Nos	1	1					
1201	02-1011-0535	Link 135	Nos	1	1					
1202	02-1011-0536	Pin 161	Nos	1	1					
1203	02-1011-0537	Screw Rod 177	Nos	1	1					
1204	02-1011-0539	Release Roller 247	Nos	1	1					
1205	02-1011-0540	Closing Coil 11	Nos	1	1					
1206	02-1011-0541	Triping Coil	Nos	1	1					
1207	02-1011-0542	Trip Bar 171	Nos	1	1					
1208	02-1011-0543	Cell Chloride Battery TFP-2375	Nos	9	9					
1209	02-1011-0549	Cell Larg	Nos	108	108					
1210	02-1011-0569	PVC Cable 19/83 S-Core (Copper)	Mtr	100	100					
1211	02-1011-0574	PVC Elbow 1/2	Nos	68	68					
1212	02-1011-0585	PVC Socket 1"	Nos	38	38					
1213	02-1011-0595	PVC Shaddle 1/2	Nos	157	157					
1214	02-1011-0596	PVC Shaddle 3/4	Dzn	76	76					
1215	02-1011-0597	PVC Shaddle 1"	DZN	124	124					
1216	02-1011-0653	Sealing Patty Non Hardening	Kgs	58	58					
1217	02-1011-0658	Emery Paper (1)	Nos	806	806					
1218	02-1011-0670	Thimble 6mm	Doz	25	25					
1219	02-1011-0716	Power Cable 15KV3x4	Mtr	300	300					
1220	02-1011-0719	Power Cable Three/Core 120mm	Mtrs	138	138					
1221	02-1011-0726	Glass Sleeve 10 mm	Nos	11	11					
1222	02-1011-0755	Stay Rod	Nos	38	38					

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1223	02-1011-0767	Sythetic Rubber Rope Size=10mm	Feet	100	100					
1224	02-1011-0777	Copper Bus Bar Size-100.05x10.5mm	Kgs	15.5	15.5					
1225	02-1011-0778	Copper Bus Bar Size-51x9.5mm	Kgs	75	75					
1226	02-1011-0779	Copper Bus Bar Size-51x6.5mm	Kgs	70	70					
1227	02-1011-0814	Zinc Oxide Plaster Tape Size-2.50mx5m	Nos	68	68					
1228	02-1011-0847	Cut Screw 2.5"	Pkt	6	6					
1229	02-1011-0882	Water PIpe 2" Rubber	MTR	80	80					
1230	02-1011-0898	Copper Sleeve 6mm	Nos	90	90					
1231	02-1011-0901	Copper Sleeve 35mm	Nos	50	50					
1232	02-1011-0902	Copper Sleeve 04mm	Nos	80	80					
1233	02-1011-0915	H.T Cable Jointing Kit Cable Size-3x240mm Copper Cable Complete	Nos	1	1					
1234	02-1011-0930	CopperBusBarFor6.6KVPunty99.9%withFinishingSurfc80x8.0mm(100Mtrs)	Mtr	19	19					
1235	02-1011-0957	Glass Seave 6mm	Pcs	24	24					
1236	02-1011-1009	P.V.C Insolated Control Cable 600/100 19 x 1.5	Mts	25	25					
1237	02-1011-1011	Copper Bus Bar For 6.6KV a)Size-120x12mm	Kgs	2	2					
1238	02-1011-1018	Porciline Insulator of 6.6kV CP Motor (APS)	Nos	8	8					
1239	02-1011-1060	Pin For H.T Structure	Nos	30	30					
1240	02-1011-1107	Cable Lugs 2.5 M "O"	Dzn	150	150					
1241	02-1011-1160	Electric Insulator Size-OD-73.5mmx44mmx16.5mm Total-76.5mm	Nos	24	24					
1242	02-1011-1284	Control Cable 10 x 1.5mm	Mtr	50	50					
1243	02-1011-1298	6.6KV Bus Insulator (u#,3,3&4) Width 92mm,Lenght115mm	Nos	150	150					
1244	02-1011-1299	6.6KV Bus Bar Insulator(U#1) Width86mm,lenght 100mm	Nos	50	50					
1245	02-1011-1300	6.6/04KVMotor Insulator I.E id fan Motor(U2,3&4)Width 68mm,L=71mm	Nos	25	25					
1246	02-1011-1307	P.V.C Control Cable 7 x 1.5 mm	Mtr	100	100					
1247	02-1011-1341	A.A Conductor WASP	MTR	4300	4300					
1248	02-1011-1380	P.G Connector T-110	Nos	500	500					
1249	02-1011-1381	Earth Road	Nos	12	12					
1250	L/O/INS:003	VIBRATION SENDER FOR COOLING TOWER ME-1	SET	6	6					
1251	L/O/INS:004	CONTROLLER OF VIBRATION SENDER MC-1	SET	3	3					
1252	L/O/INS:005	TWO SYPHONE DIFFERENTIAL CWD-280	SET	2	2					
1253	L/O/INS:006	INITATIVE SIGNAL GENERATOR (each side per pieces)	SET	2	2					
1254	L/O/INS:007	SECOND EWCRE SALT	NO.	129	129					
1255	L/O/INS:008	SELECTOR TYPE CONDUCTIVITY TRANSMITTER E/L 5203	SET	2	2					
1256	L/O/INS:009	COVER OF GAS RELAY	NO.	1	1					
1257	L/O/INS:011	LEVEL RELAY OF EXPLOSION PROOF BJY F-03	NO.	1	1					
1258	L/O/INS:013	CU-THERMAL RESISTANCE WZC-001	NO.	12	12					

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1259	L/O/INS:014	CU-THERMAL RESISTANCE WZ-190	NO.	17	17					
1260	L/O/INS:015	PLUG ELEMENT	NO.	9	9					
1261	L/O/INS:016	CONTROLLER ZFM	SET	2	2					
1262	L/O/INS:018	CIRCUIT PLATE	NO.	1	1					
1263	L/O/INS:019	WATER LEVEL INDICATOR MH2O	NO.	1	1					
1264	L/O/INS:020	5367-6001, (IDB DISTRIBUTOR 220V)	NO.	4	4					
1265	L/O/INS:089	COMPUTING AMPLIFIER FG 3/40	NO.	15	15					
1266	L/O/INS:090	COMPUTING AMPLIFIER FG 725	NO.	19	19					
1267	L/O/INS:092	DIODE 2C Z 57	NO.	5	5					
1268	L/O/INS:096	DIODE 2C Z82-2P12	NO.	49	49					
1269	L/O/INS:101	DIODE 1N 4004	NO.	15	15					
1270	L/O/INS:102	DIODE RD 13EB	NO.	10	10					
1271	L/O/INS:103	DIODE RD 62E	NO.	10	10					
1272	L/O/INS:104	DIODE 2D W178	NO.	8	8					
1273	L/O/INS:105	DIODE 2CW21J	NO.	2	2					
1274	L/O/INS:106	DIODE 2CW21K	NO.	20	20					
1275	L/O/INS:107	DIODE 2CW54	NO.	10	10					
1276	L/O/INS:108	DIODE 2CW72	NO.	2	2					
1277	L/O/INS:109	DIODE BA 2411	NO.	37	37					
1278	L/O/INS:110	LIGHT EMMITTING DIODE BT 203A	NO.	22	22					
1279	L/O/INS:112	RECTIFIER SKN 45/08	NO.	2	2					
1280	L/O/INS:114	RECTIFIER 2P 800V/200A	NO.	2	2					
1281	L/O/INS:118	ZENER HW 4J4/1A	NO.	2	2					
1282	L/O/INS:119	SCR KP 5A/900V	NO.	4	4					
1283	L/O/INS:120	SCR KP 5A/600V	NO.	1	1					
1284	L/O/INS:121	SCR KP 5A/800V	NO.	1	1					
1285	L/O/INS:122	SCR KP 400V/50A	NO.	3	3					
1286	L/O/INS:126	TRANSISTER 3DG27C	NO.	7	7					
1287	L/O/INS:127	TRANSISTER 3DG1002	NO.	35	35					
1288	L/O/INS:129	TRANSISTER BT33DJ	NO.	71	71					
1289	L/O/INS:130	TRANSISTER BT-33F	NO.	2	2					
1290	L/O/INS:136	TRANSISTER 3CK3C	NO.	10	10					
1291	L/O/INS:138	TRANSISTER 3AX31C	NO.	12	12					
1292	L/O/INS:148	POTENTIOMETER W H5-1A 33K	NO.	17	17					
1293	L/O/INS:150	POTENTIOMETER WXW1B-I 470 ohm	NO.	30	30					
1294	L/O/INS:153	POTENTIOMETER WXW 1B-1 470 ohm	NO.	8	8					

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1	2	3	4	5	6	7	8	10	11	12
1295	L/O/INS:155	RESISTANCE RJ-025 750Kohm	NO.	7	7					
1296	L/O/INS:163	RESISTANCE 0.25W 30 ohm	NO.	10	10					
1297	L/O/INS:164	RESISTANCE 0.25W 51 ohm	NO.	10	10					
1298	L/O/INS:165	RESISTANCE 0.25W 100 ohm	NO.	6	6					
1299	L/O/INS:168	RESISTANCE 0.25W 51 ohm	NO.	10	10					
1300	L/O/INS:169	RESISTANCE 0.25W 10 ohm	NO.	10	10					
1301	L/O/INS:170	RESISTANCE 0.25W 15 ohm	NO.	10	10					
1302	L/O/INS:171	RESISTANCE 0.25W 100 ohm	NO.	17	17					
1303	L/O/INS:177	RESISTANCE 0.25W 820 ohm	NO.	10	10					
1304	L/O/INS:178	RESISTANCE 0.25W 1K	NO.	10	10					
1305	L/O/INS:179	RESISTANCE 0.25W 2K	NO.	2	2					
1306	L/O/INS:180	RESISTANCE 0.25W 3K	NO.	10	10					
1307	L/O/INS:181	RESISTANCE 0.25W 43K	NO.	10	10					
1308	L/O/INS:182	RESISTANCE 0.25W 100 ohm	NO.	5	5					
1309	L/O/INS:183	RESISTANCE 0.25W 5 ohm	NO.	4	4					
1310	L/O/INS:184	RESISTANCE 0.25W 50 ohm	NO.	5	5					
1311	L/O/INS:185	RESISTANCE RJ-025 15 ohm	NO.	10	10					
1312	L/O/INS:187	RESISTANCE ZG II - 150 1K	NO.	6	6					
1313	L/O/INS:189	RESISTANCE ZG II - 100 500 ohm	NO.	2	2					
1314	L/O/INS:190	RESISTANCE ZG II - 75 10K	NO.	1	1					
1315	L/O/INS:191	RESISTANCE ZG II - 50 7.5K	NO.	2	2					
1316	L/O/INS:192	RESISTANCE RX 20-I 10K	NO.	10	10					
1317	L/O/INS:193	RESISTANCE RX20-20 2.7K	NO.	4	4					
1318	L/O/INS:194	RESISTANCE RX 20-5 100 ohm	NO.	4	4					
1319	L/O/INS:195	RESISTANCE RX 20-40-20 ohm	NO.	16	16					
1320	L/O/INS:196	RESISTANCE 50W/10K	NO.	3	3					
1321	L/O/INS:198	RESISTANCE RX 4C-1 50W/1.5K	NO.	4	4					
1322	L/O/INS:200	RESISTANCE ZB-II-25 1K	NO.	7	7					
1323	L/O/INS:202	RESISTOR BCJ 100W 3000 ohm	NO.	2	2					
1324	L/O/INS:203	RESISTOR BCJ 50W 1000 ohm	NO.	1	1					
1325	L/O/INS:207	RESISTANCE 5W / 5 ohm	NO.	2	2					
1326	L/O/INS:210	CAPACITY CD 11 16V / 220 MF	NO.	9	9					
1327	L/O/INS:211	CAPACITY CD 11 25 V / 10 MF	NO.	41	41					
1328	L/O/INS:213	CAPACITY CY 2-3 100V / 1000 MF	NO.	39	39					
1329	L/O/INS:217	CAPACITY CJ 40 -2 1000V/MF	NO.	29	29					
1330	L/O/INS:218	CAPACITY CJ 40 -2 1000V/ 0.47 MF	NO.	27	27					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1331	L/O/INS:219	CAPACITY CJ 40 -2 1000V/ 2 MF	NO.	7	7					
1332	L/O/INS:221	CAPACITY CJ 48 -2 1000V/ 1 MF	NO.	12	12					
1333	L/O/INS:222	CAPACITY CJ 48 -2 100V/1000 MF	NO.	23	23					
1334	L/O/INS:223	RESISTANCE RX20 50W /3K ohm	NO.	478	478					
1335	L/O/INS:228	THREE-WAY VALVE ASSY FF3-160P	NO.	17	17					
1336	L/O/INS:229	FOUR WAY VALVE ASSY	NO.	2	2					
1337	L/O/INS:231	COVER OF TEMP: TRANSMITORS	NO.	11	11					
1338	L/O/INS:232	METER COVER	NO.	40	40					
1339	L/O/INS:233	METER COVER	NO.	41	41					
1340	L/O/INS:234	SHIELD CABLE 2 CORE	NO.	109	109					
1341	L/O/INS:236	SIGNAL LAMP XDS /220 (green)	NO.	13	13					
1342	L/O/INS:239	SIGNAL LAMP XDS /220 (white)	NO.	29	29					
1343	L/O/INS:240	SIGNAL LAMP XDS /220 (red)	NO.	3	3					
1344	L/O/INS:241	SIGNAL LAMP XD7 /220 (white)	NO.	13	13					
1345	L/O/INS:243	SIGNAL LAMP XD7 /220 (green)	NO.	3	3					
1346	L/O/INS:244	SIGNAL LAMP XD7 /380 (red)	NO.	9	9					
1347	L/O/INS:245	SIGNAL LAMP XD7 /380v (green)	NO.	5	5					
1348	L/O/INS:250	SIGNAL LAMP XD11 /6.3v (green)	NO.	6	6					
1349	L/O/INS:256	SIGNAL LAMP XD3 /220V (green)	NO.	2	2					
1350	L/O/INS:262	SIGNAL LAMP DH 16-4 (red)	NO.	3	3					
1351	L/O/INS:266	SIGNAL LAMP XD2 (green)	NO.	3	3					
1352	L/O/INS:267	SIGNAL LAMP XD10 green	NO.	6	6					
1353	L/O/INS:270	LAMP SHADE XD5 red	NO.	16	16					
1354	L/O/INS:272	LAMP SHADE XD5 white	NO.	17	17					
1355	L/O/INS:273	LAMP SHADE XDO green	NO.	2	2					
1356	L/O/INS:276	LAMP SHADE XD11 red	NO.	188	188					
1357	L/O/INS:277	LAMP SHADE X11 green	NO.	103	103					
1358	L/O/INS:282	CHANGER POWER	NO.	22	22					
1359	L/O/INS:283	FAN 100 FZ 12-D	NO.	1	1					
1360	L/O/INS:285	PLUG CD 25J	NO.	48	48					
1361	L/O/INS:296	BUTTON LA 10- 1 H red	NO.	2	2					
1362	L/O/INS:301	EXPLOSION PROOF SWITCH LA 860-1	NO.	2	2					
1363	L/O/INS:302	TONGUE CONTACT (more type)	NO.	567	567					
1364	L/O/INS:303	SWITCH KN 32 250V/5A	NO.	1	1					
1365	L/O/INS:308	BUTTON LA-18 AC 380 V / 6A red	NO.	1	1					
1366	L/O/INS:309	SINGLE POLE DOUBLE THROW SWITCH	NO.	11	11					

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1367	L/O/INS:310	DOUBLE POLE THROW SWITCH	NO.	9	9					
1368	L/O/INS:312	SINGLE POLE AUTO SWITCH DZS-10	NO.	9	9					
1369	L/O/INS:314	BUTTON	NO.	2	2					
1370	L/O/INS:316	CONNECTOR M18X15	SET	7	7					
1371	L/O/INS:317	PLUG AND SOCKET 20 CORE	SET	31	31					
1372	L/O/INS:318	TERMINAL	SET	94	94					
1373	L/O/INS:320	TERMINAL D1-205	SET	23	23					
1374	L/O/INS:321	SIGNAL LAMP YD 1/1 - B/15	SET	5	5					
1375	L/O/INS:323	TERMINAL D2-500V / 10A	NO.	25	25					
1376	L/O/INS:324	TERMINAL D9-500V / 10A	NO.	95	95					
1377	L/O/INS:325	TERMINAL D5-500V / 10A	NO.	27	27					
1378	L/O/INS:326	TERMINAL D4-500V / 10A	NO.	28	28					
1379	L/O/INS:327	VOLTAGE METER 42L, 1000V V0-1000	NO.	3	3					
1380	L/O/INS:328	VOLTAGE METER 42L, 1.5KV	NO.	2	2					
1381	L/O/INS:330	VOLTAGE METER 2182 450V, 0-450	NO.	2	2					
1382	L/O/INS:331	VOLTAGE METER 42L, 6.6/0.1KV	NO.	2	2					
1383	L/O/INS:334	CURRENT METER 42C1 3KA	NO.	1	1					
1384	L/O/INS:336	CURRENT METER 42 L6 A 1000/5A	NO.	1	1					
1385	L/O/INS:337	CURRENT METER 44 L1- A 100A	NO.	1	1					
1386	L/O/INS:338	CURRENT METER 2181 50 MV 10A	NO.	3	3					
1387	L/O/INS:340	CURRENT METER 42L6-A 100/sA 80A	NO.	2	2					
1388	L/O/INS:342	CURRENT METER 6L2 400/sA	NO.	4	4					
1389	L/O/INS:343	CURRENT METER 6L2 800/s-A	NO.	2	2					
1390	L/O/INS:344	CURRENT METER 6L2 30/5-A	NO.	1	1					
1391	L/O/INS:345	CURRENT METER 1T1-A 400 /5A	NO.	3	3					
1392	L/O/INS:346	MOVING COIL CONDUCTOR 99622 4-20 MA	NO.	5	5					
1393	L/O/INS:349	SOLENOID VALVE YDF2-23- 1/8	NO.	15	15					
1394	L/O/INS:350	SOLENOID VALVE BQY-23D	NO.	1	1					
1395	L/O/INS:351	COIL OF SOLENOID VALVE 801-T1-2 220V	NO.	4	4					
1396	L/O/INS:354	FREQUENCY METER 444-HZ-0155HZ	NO.	1	1					
1397	L/O/INS:357	SIGNAL ISOLATED INDICATOR MK-9T	NO.	1	1					
1398	L/O/INS:358	MOTOR 43 BY 4-1-7-5L4V 4 Pase	NO.	1	1					
1399	L/O/INS:359	FREQUENCY TRANSDUCER CTL 11	NO.	1	1					
1400	L/O/INS:360	GLASS TUBE	NO.	6	6					
1401	L/O/INS:361	TRANSFORMER BK - 50 50VA 100/100A	NO.	1	1					
1402	L/O/INS:362	TRANSFORMER BK-50 110V/220V 50VA	NO.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
1403	L/O/INS:363	TRANSFORMER FOR XFZ	NO.	4	4					
1404	L/O/INS:364	TRANSFORMER BKC-50 100/58V	NO.	3	3					
1405	L/O/INS:365	TRANSFORMER DBK2 -1 K1, KV A 220/36V	NO.	3	3					
1406	L/O/INS:367	CT FL 8/1 0.24-1.6A/2.89-05 77A	NO.	1	1					
1407	L/O/INS:368	SPARE PARTS FOR CALIBRATOR ZDFX2000	SET	5	5					
1408	L/O/INS:369	AUXIALIARY POWER ZDFJ-2702	SET	3	3					
1409	L/O/INS:370	CALIBRATOR ZDFX-2000	SET	2	2					
1410	L/O/INS:371	ALARM ZDKJ-8000	SET	3	3					
1411	L/O/INS:372	OPERATING SET ZDFH-2000	NO.	1	1					
1412	L/O/INS:375	PLUS MINUS COMBINATION ZDJJ-4000	NO.	2	2					
1413	L/O/INS:376	INPUT COMBINATION ZDZR-1000	NO.	8	8					
1414	L/O/INS:378	RELAY COMBINATION ZDKJ-9000	NO.	7	7					
1415	L/O/INS:382	MONITOR COMBINATION ZDKJ-5010	NO.	5	5					
1416	L/O/INS:383	MONITOR COMBINATION ZDKJ-9020	NO.	1	1					
1417	L/O/INS:385	CONTROLLER COMBINATION ZDTL-2070	NO.	1	1					
1418	L/O/INS:386	OUT PUT COMBINATION ZDZC-1000	NO.	1	1					
1419	L/O/INS:388	PROTECTION COMBINATION	NO.	6	6					
1420	L/O/INS:389	ROOTING COMBINATION ZDJK-1000	NO.	2	2					
1421	L/O/INS:390	MONITOR COMBINATION ZDKJ F 1000	NO.	4	4					
1422	L/O/INS:391	CONSTANT VALVE COMBINATION ZD GA-3000	NO.	1	1					
1423	L/O/INS:392	PROTECTION COMBINATION	NO.	1	1					
1424	L/O/INS:394	TRANSMITTER 1.51 19050 H2O	NO.	1	1					
1425	L/O/INS:395	TRANSMITTER 690 KPa	NO.	1	1					
1426	L/O/INS:396	POWER (24V) SUB-PANNEL PQAJ-D-004	NO.	1	1					
1427	L/O/INS:398	SHAFT VIBRATION, SUB PANNEL RD1X-J	NO.	1	1					
1428	L/O/INS:399	SHAFT VIBRATION SUB-PANNEL RDZZ-J	NO.	2	2					
1429	L/O/INS:400	POWER SUB-PANNEL PQAJ-IV-005	NO.	2	2					
1430	L/O/INS:401	BEARING VIBRATION SUB-PANNEL PQAJ-IV-011	NO.	2	2					
1431	L/O/INS:403	TRANSFORMER 10M	NO.	10	10					
1432	L/O/INS:404	TRANSFORMER 11M	NO.	5	5					
1433	L/O/INS:406	TRANSFORMER 12M	NO.	7	7					
1434	L/O/INS:407	TRANSFORMER 7M	NO.	11	11					
1435	L/O/INS:408	TRANSFORMER 24M	NO.	2	2					
1436	L/O/INS:410	KEY	NO.	20	20					
1437	L/O/INS:411	SOCKET C2 T JS-2	NO.	2	2					
1438	L/O/INS:412	SOCKET, CZ TJ1-17	NO.	16	16					

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1	2	3	4	5	6	7	8	10	11	12
1439	L/O/INS:413	SEALING RELAY JRC-4M (Atype)	NO.	4	4					
1440	L/O/INS:414	COMPUTER KEY KJD1-1X1	NO.	44	44					
1441	L/O/INS:415	SWITCH 820P	NO.	17	17					
1442	L/O/INS:417	SIGNAL LAMP LDDH-8	NO.	95	95					
1443	L/O/INS:418	COMMON UNIT XBH.1	NO.	4	4					
1444	L/O/INS:420	SUPPORT OF FLOATING LEVEL CONTROLLER	NO.	63	63					
1445	L/O/INS:422	CHART 270-1-1	NO.	163	163					
1446	L/O/INS:423	CHART 114-1-107	NO.	276	276					
1447	L/O/INS:443	TWI-METAL THERMOMETER WSS-411 100C 300mm	NO.	1	1					
1448	L/O/INS:449	pt - Thermo Resistance	NO.	2	2					
1449	L/O/INS:450	pt - Thermo Resistance	NO.	2	2					
1450	L/O/INS:451	pt - Thermo Resistance	NO.	1	1					
1451	L/O/INS:453	Pt-THERMORESISTANCE WZP-221 l=150	NO.	9	9					
1452	L/O/INS:454	Pt-THERMORESISTANCE WZP 12-221 l=150	NO.	10	10					
1453	L/O/INS:456	Pt-THERMORESISTANCE WZP 620-400X250	NO.	2	2					
1454	L/O/INS:458	Pt-THERMORESISTANCE WZP 620 250	NO.	2	2					
1455	L/O/INS:459	Pt-THERMORESISTANCE WZP 621 200	NO.	2	2					
1456	L/O/INS:460	pt - Thermo Resistance	NO.	1	1					
1457	L/O/INS:461	Pt-THERMORESISTANCE WRP 120 450X300	NO.	1	1					
1458	L/O/INS:462	pt - Thermo Resistance	NO.	1	1					
1459	L/O/INS:466	TERMINAL NUMBER IN INDICATION AT CELL ROOM 16CV V-250V 100K ol	NO.	2	2					
1460	L/O/INS:467	V-TYPE THERMOMETER 0-100C	NO.	1	1					
1461	L/O/INS:469	METAL TUBE THERMOMETER 300C L-200 m 27X2	NO.	4	4					
1462	L/O/INS:470	METAL TUBE THERMOMETER 500C L-100 m 27X2	NO.	1	1					
1463	L/O/INS:471	METAL TUBE THERMOMETER 200C L-150 m 27X2	NO.	1	1					
1464	L/O/INS:472	METAL TUBE THERMOMETER 400C L-150 m 27X2	NO.	1	1					
1465	L/O/INS:473	METAL TUBE THERMOMETER 300C L-150 m 27X2	NO.	1	1					
1466	L/O/INS:479	CU-RESISTANCE WZC-010 CU 50	NO.	10	10					
1467	L/O/INS:480	Pt-RESISTANCE WZP -010 Pt=100	NO.	28	28					
1468	L/O/INS:481	DIGITAL THERMOMETER XSZ	NO.	1	1					
1469	L/O/INS:482	TEMP TRANSMITTER 0-150C	NO.	1	1					
1470	L/O/INS:483	TEMP TRANSMITTER 0-400C E 5351-2102/A2	NO.	1	1					
1471	L/O/INS:484	TEMP TRANSMITTER 0-200C Pt=100	NO.	1	1					
1472	L/O/INS:486	CU-THERMORESISTANCE WZC-220 L=150	NO.	31	31					
1473	L/O/INS:488	CU-THERMORESISTANCE WZC-220 L=250	NO.	2	2					
1474	L/O/INS:489	CU-THERMORESISTANCE WZC-420 L=150	NO.	4	4					

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1	2	3	4	5	6	7	8	10	11	12
1475	L/O/INS:490	CU-THERMORESISTANCE WZC-220 L=10	NO.	30	30					
1476	L/O/INS:492	CU-THERMORESISTANCE WZG-220 L=150 FLANGE TYPE	NO.	18	18					
1477	L/O/INS:493	CU-THERMORESISTANCE WZC-220 L=300	NO.	3	3					
1478	L/O/INS:494	CU-THERMORESISTANCE WZG-220 L=300, M27+2	NO.	2	2					
1479	L/O/INS:495	CU-THERMORESISTANCE WZG-220 L=100	NO.	8	8					
1480	L/O/INS:496	CU-THERMORESISTANCE WZC-220 350+200	NO.	8	8					
1481	L/O/INS:498	CU-RESISTANCE WZCM-001 CU 50 2500	NO.	2	2					
1482	L/O/INS:499	CU-RESISTANCE WZGM-001 2500	NO.	1	1					
1483	L/O/INS:501	Pt-RESISTANCE WZ P2-221-Pt=100 100-420C	NO.	1	1					
1484	L/O/INS:503	Pt-RESISTANCE WZ P2-221-Pt=100 1000	NO.	2	2					
1485	L/O/INS:517	PRESSURE TYPE t-40Z 1.6 Kg/Cm2	NO.	14	14					
1486	L/O/INS:518	PRESSURE METER Y-40 Z 4 Kg/Cm2	NO.	23	23					
1487	L/O/INS:519	PRESSURE METER Y-40 Z 6 Kg/Cm2	NO.	7	7					
1488	L/O/INS:520	PRESSURE METER Y-40 Z 10 Kg/Cm2	NO.	1	1					
1489	L/O/INS:521	PRESSURE METER Y-40 Z 2.5 Kg/Cm2	NO.	18	18					
1490	L/O/INS:532	PRESSURE METER Y-150 ZT 2.5 Kg/Cm2	NO.	2	2					
1491	L/O/INS:535	PRESSURE METER	NO.	3	3					
1492	L/O/INS:540	PRESSURE METER YX-150A 1.6 Kg/Cm2	NO.	4	4					
1493	L/O/INS:541	PRESSURE METER YX-150A 10 Kg/Cm2	NO.	9	9					
1494	L/O/INS:543	PRESSURE METER YX-150A 250 Kg/Cm2	NO.	1	1					
1495	L/O/INS:551	CHANGE OVER SWITCH LW2-1.2,2.2/F4-8X	NO.	3	3					
1496	L/O/INS:554	CHANGE OVER SWITCH LWX2-1/F4-X	NO.	9	9					
1497	L/O/INS:555	CHANGE OVER SWITCH LWY,-21/F4-8X	NO.	8	8					
1498	L/O/INS:556	CHANGE OVER SWITCH LWX2-1.2/F4-8X	NO.	7	7					
1499	L/O/INS:558	CHANGE OVER SWITCH LWX2-22/F4-8X	NO.	56	56					
1500	L/O/INS:559	CHANGE OVER SWITCH LWXZ-211/F4-8X	NO.	3	3					
1501	L/O/INS:561	CHANGE OVER SWITCH LWX2-1/F4-X	NO.	40	40					
1502	L/O/INS:562	CHANGE OVER SWITCH FK 20	NO.	1	1					
1503	L/O/INS:563	CHANGE OVER SWITCH	NO.	1	1					
1504	L/O/INS:564	CHANGE OVER SWITCH LW2-Z-1946940.2/0.20/F8	NO.	5	5					
1505	L/O/INS:569	CHANGE OVER SWITCH LWX2-W-9922/F4	NO.	2	2					
1506	L/O/INS:570	CHANGE OVER SWITCH LWX2-W-226669.69/F4	NO.	21	21					
1507	L/O/INS:571	CHANGE OVER SWITCH LWX2-19191.1.1/F4	NO.	2	2					
1508	L/O/INS:572	CHANGE OVER SWITCH LWX2-19/9/9/9/9/9/F4-SX	NO.	1	1					
1509	L/O/INS:573	CHANGE OVER SWITCH LWX2-/9/9/9/9/9/9/F4-X	NO.	2	2					
1510	L/O/INS:574	CHANGE OVER SWITCH LWX2-/9/9/9/9/F4-X	NO.	27	27					

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1511	L/O/INS:575	CHANGE OVER SWITCH LWX2-/9/9/9, 2222/F4-X	NO.	7	7					
1512	L/O/INS:576	CHANGE OVER SWITCH LWX2-W-226669/F4	NO.	3	3					
1513	L/O/INS:577	CHANGE OVER SWITCH LWX2-W-2569/F4	NO.	2	2					
1514	L/O/INS:578	CHANGE OVER SWITCH LW2-/941/F4-Y	NO.	3	3					
1515	L/O/INS:581	CHANGE OVER SWITCH LWX2-223/F4-8X	NO.	7	7					
1516	L/O/INS:582	CHANGE OVER SWITCH LW64/A059	NO.	3	3					
1517	L/O/INS:583	CHANGE OVER SWITCH LWX2-11111/F4-X	NO.	9	9					
1518	L/O/INS:584	CHANGE OVER SWITCH LWX2-23/F4-8X	NO.	7	7					
1519	L/O/INS:585	CHANGE OVER SWITCH LWX2-W-2669/F9	NO.	194	194					
1520	L/O/INS:587	PRESSURE METER OF VIBRATION PROOF 0-06 Kg/Cm2	NO.	3	3					
1521	L/O/INS:592	PRESSURE METER Y-150, 1-03 Kg/Cm2	NO.	2	2					
1522	L/O/INS:595	PRESSURE METER YR-40, 6 Kg/Cm2	NO.	1	1					
1523	L/O/INS:598	D.C CURRENT VOLTAGE TRANSMITTER FS-18	NO.	1	1					
1524	L/O/INS:599	MOVING COIL METER, XCZ-101 0-10, 0-+_ 200mm	NO.	3	3					
1525	L/O/INS:600	TEMP: INDICATION XCT-102 150 C	NO.	12	12					
1526	L/O/INS:602	DISTRIBUTION BOX ISN 5361-2002	NO.	4	4					
1527	L/O/INS:603	DISTRIBUTION BOX IDB 5367-3001	NO.	3	3					
1528	L/O/INS:604	INDICATION DPQ-14 100 4-20mA	NO.	1	1					
1529	L/O/INS:605	DISTRIBUTION BOX ID 13 5367-100D	NO.	1	1					
1530	L/O/INS:608	INDICATION IH 15- 4136-2000, 0-600 C	NO.	3	3					
1531	L/O/INS:611	COUNTER 52 17-0 1m3	NO.	1	1					
1532	L/O/INS:612	T.V GLASS	NO.	1	1					
1533	L/O/INS:613	PUMP TUBE	NO.	4	4					
1534	L/O/INS:614	PLUG ELEMENT RE 4-1	NO.	11	11					
1535	L/O/INS:615	O2 REDUCER	NO.	4	4					
1536	L/O/INS:616	ROTOR FLOWER	NO.	2	2					
1537	L/O/INS:617	AIR PUMP DM-01	SET	2	2					
1538	L/O/INS:618	POWER TRANSFORMER FOR DH-6	NO.	2	2					
1539	L/O/INS:619	CONNECTOR	SET	2	2					
1540	L/O/INS:620	PLUG ELEMENT AS-E 9603Y FOR ITE	NO.	6	6					
1541	L/O/INS:621	WHITE PLATE	NO.	20	20					
1542	L/O/INS:622	CIRCUIT BOARD E9662 WA-01	NO.	4	4					
1543	L/O/INS:623	GAS MEASURE EXPLOSION METER RH-31	NO.	1	1					
1544	L/O/INS:624	PLUG ELEMENT CY4-2.54-72JSJ	NO.	2	2					
1545	L/O/INS:625	CHECK PANNEL CY4-2.54-72	NO.	1	1					
1546	L/O/INS:626	AMPLIFIER PANNEL 1151	NO.	7	7					

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1	2	3	4	5	6	7	8	10	11	12
1547	L/O/INS:627	PLUG ELEMENT FC-101	NO.	8	8					
1548	L/O/INS:628	SERVO AMPLIFIER PANNEL	NO.	9	9					
1549	L/O/INS:629	AMP: UNIT AS-E9603 XFX	NO.	3	3					
1550	L/O/INS:630	TEMPERATURE INDICATION XCZ	NO.	3	3					
1551	L/O/INS:631	GLITTERING SIGNAL ALARM XXS-03A	NO.	10	10					
1552	L/O/INS:632	CL ANALYZER PART RH-21G	NO.	6	6					
1553	L/O/INS:635	FILTER KZ 03-1-1	NO.	6	6					
1554	L/O/INS:636	CHECK PANNEL	NO.	6	6					
1555	L/O/INS:638	FILTER QFG-300	NO.	1	1					
1556	L/O/INS:640	AUXIALARY RELAY ZJ3-1 C/102	NO.	16	16					
1557	L/O/INS:641	AUXIALARY RELAY DZ-51/22 220V	NO.	26	26					
1558	L/O/INS:643	AUXIALARY RELAY DZJ3-3C/80, 220V	NO.	2	2					
1559	L/O/INS:644	AUXIALARY RELAY ZJ3-1C/8 220V	NO.	17	17					
1560	L/O/INS:645	AUXIALARY RELAY ZJ3-1C/44, 220V	NO.	13	13					
1561	L/O/INS:647	MAGNET STARTER QC10-3/6, 14-22A	NO.	4	4					
1562	L/O/INS:649	AUXIALARY RELAY DZ-52/22 220V	NO.	24	24					
1563	L/O/INS:650	AUXIALARY RELAY DZ- 51/40 220V	NO.	59	59					
1564	L/O/INS:651	MAGNETIC STARTER QC 10-5/6 40- 63 A	NO.	4	4					
1565	L/O/INS:652	VOLTAGE RELAY DY-28 C/3 220V	NO.	17	17					
1566	L/O/INS:653	CT FL 8/5 TH	NO.	8	8					
1567	L/O/INS:654	CT FL 8/1	NO.	5	5					
1568	L/O/INS:657	SIGNAL ALARM PLATE XB21-B	NO.	3	3					
1569	L/O/INS:659	Safty Fance	NO.	4	4					
1570	L/O/INS:660	TRASISTER DC STABLE POWER WYJ-2B 50V/5A	SET	1	1					
1571	L/O/INS:661	TIME RELAY JS 300	NO.	2	2					
1572	L/O/INS:663	TIME RELAY JS14-2405/220V	NO.	1	1					
1573	L/O/INS:664	TIME RELAY JS514 A 605/220V	NO.	2	2					
1574	L/O/INS:666	TIME RELAY JS-14A 105/220V	NO.	3	3					
1575	L/O/INS:668	NUMBER RELAY DM-3	NO.	1	1					
1576	L/O/INS:675	TIME RELAY JJSK2	NO.	1	1					
1577	L/O/INS:676	AUXILIARY RELAY, JQX- 10 DC 24V	NO.	3	3					
1578	L/O/INS:677	AUXILIARY RELAY, JTX-12V	NO.	9	9					
1579	L/O/INS:678	AUXILIARY RELAY, JTX-3Z DC 220V	NO.	17	17					
1580	L/O/INS:681	MICRO RELAY HG	NO.	11	11					
1581	L/O/INS:682	MICRO RELAY JZC-6F	NO.	13	13					
1582	L/O/INS:683	RELAY JTX-3C	NO.	7	7					

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1	2	3	4	5	6	7	8	10	11	12
1583	L/O/INS:688	AUXIALARY RELAY DZ 51/40 - 110V	NO.	3	3					
1584	L/O/INS:689	AUXIALARY RELAY DZ 15	NO.	4	4					
1585	L/O/INS:692	DC AUXIALARY RELAY DZ-414	NO.	1	1					
1586	L/O/INS:693	DC AUXIALARY RELAY DJZ-22IX	NO.	2	2					
1587	L/O/INS:694	Tine Relay	NO.	1	1					
1588	L/O/INS:696	TIME RELAY DS-21C	NO.	1	1					
1589	L/O/INS:697	TIME RELAY JS 11-11	NO.	3	3					
1590	L/O/INS:698	TIME RELAY DS-122/220V	NO.	1	1					
1591	L/O/INS:699	TEMPRATURE TRANSMITTER FOR BOILER FEED PUMP	NO.	2	2					
1592	L/O/INS:700	SPEED METER (FOR BOILER FEED PUMP)	NO.	1	1					
1593	L/O/INS:701	PLUG ELEMENT (A104, A106)	NO.	1	1					
1594	L/O/INS:702	PLUG ELEMENT (A100)	NO.	2	2					
1595	L/O/INS:703	PLUG ELEMENT (A11)	NO.	1	1					
1596	L/O/INS:704	PLUG ELEMENT (A102)	NO.	1	1					
1597	L/O/INS:705	PLUG ELEMENT (A14)	NO.	2	2					
1598	L/O/INS:706	PH INDICATION PAPPER FOR SODIUM HYPOCHLORIENTE GENERATOT	NO.	13	13					
1599	L/O/INS:707	THERMO COUPLING (WRNK2-321, L=250K	NO.	34	34					
1600	L/O/INS:708	THERMO COUPLING (WRNK2-321, L=250K	NO.	8	8					
1601	L/O/INS:710	THERMO COUPLING (WRNK-221, L=200E	NO.	3	3					
1602	L/O/INS:711	THERMO COUPLING (WRNK-321, L=300K	NO.	4	4					
1603	L/O/INS:714	ELECTRODE OF ELECTRICAL CONDUCTIVITY	NO.	2	2					
1604	L/O/INS:715	THERMO COUPLING WRK-625 L=100E	NO.	2	2					
1605	L/O/INS:716	THERMO COUPLING WRN-624 1200 CK	NO.	10	10					
1606	L/O/INS:717	THERMO COUPLING WRNK-321 L=100 K	NO.	4	4					
1607	L/O/INS:718	THERMO COUPLING WRNK-321 L=500K	NO.	2	2					
1608	L/O/INS:720	THERMO COUPLING WRNK-321 L=400 K	NO.	17	17					
1609	L/O/INS:721	THERMO COUPLING WRNE-321 L=300 K	NO.	4	4					
1610	L/O/INS:722	THERMO COUPLING WRKE-321 L=200 K	NO.	18	18					
1611	L/O/INS:723	THERMO COUPLING WRK-220 L=100 E	NO.	1	1					
1612	L/O/INS:724	TEMP: INDICATION XSZ-102 0-50 C BA	NO.	3	3					
1613	L/O/INS:725	THERMO COUPLING WRNK-292A L=5000 K	NO.	2	2					
1614	L/O/INS:727	COMPUTER TYPE WRITER (ML-182) (printer 80 coulumn)	NO.	1	1					
1615	L/O/INS:728	SIGNAL LAMP (XD14-220)	NO.	28	28					
1616	L/O/INS:730	CONTROLLING BUTTON OF EXPLOSION PROOF	NO.	1	1					
1617	L/O/INS:731	HAND OPERATING BOARD (DD7-III DFD-07000)	NO.	11	11					
1618	L/O/INS:732	CASING OF LEVEL METER	NO.	4	4					

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1619	L/O/INS:733	TWI-COLOUER LEVEL METER (V97-01)	NO.	6	6					
1620	L/O/INS:734	TWI-COLOUER LEVEL METER (V97-2A)	NO.	3	3					
1621	L/O/INS:735	TWI-COLOUER LEVEL METER (VD7-02)	NO.	3	3					
1622	L/O/INS:737	OIL TANK TEMPRATURE (RTD) (TG5-150)	NO.	7	7					
1623	L/O/INS:738	PHOTO ELECTRICITY SENSER TC G G-1	NO.	2	2					
1624	L/O/INS:739	WELDING GUN	NO.	1	1					
1625	L/O/INS:741	FEED BACK SIGNAL SET EA FX-125	NO.	4	4					
1626	L/O/INS:742	FEED BACK SIGNAL SET EA FX-175	NO.	3	3					
1627	L/O/INS:743	FEED BACK SIGNAL SET EA FX-90	NO.	3	3					
1628	L/O/INS:744	CONTROLLER (RK-10) for by pass	NO.	1	1					
1629	L/O/INS:745	TRANSMITTER CONNECTOR (for by pass)	NO.	3	3					
1630	L/O/INS:746	INDUSTRIAL FILTER (FOR BY PASS)	NO.	3	3					
1631	L/O/INS:747	POWER MODULE (01.13) (for by pass)	NO.	3	3					
1632	L/O/INS:748	RELAY MODULE (01.18) for by pass)	NO.	3	3					
1633	L/O/INS:749	CONTROLLER OF OIL SUPER (01.37) for by pass	NO.	3	3					
1634	L/O/INS:750	MEASURING METER PT-10 for by pass	NO.	1	1					
1635	L/O/INS:751	MEASURING CABLE for by pass	NO.	3	3					
1636	L/O/INS:752	SPARE PARTS OF BY PASS '(for by pass)	NO.	2	2					
1637	L/O/INS:753	MEASURING METER PL-10 '(for by pass)	NO.	2	2					
1638	L/O/INS:754	AUTO ADJUSTING VALVE SPARE PARTS '(for by pass)	NO.	2	2					
1639	L/O/INS:755	SPARE PARTS OF OIL ADJUSTING VALVE '(for by pass)	NO.	3	3					
1640	L/O/INS:756	SPARE PARTS OF OIL ADJUSTING VALVE '(for by pass)	NO.	2	2					
1641	L/O/INS:757	SPARE PARTS OF ON-OFF VALVE 202 '(for by pass)	NO.	2	2					
1642	L/O/INS:758	SPARE PARTS OF ON-OFF VALVE 112 '(for by pass)	NO.	3	3					
1643	L/O/INS:759	SPARE PARTS OF ON-OFF VALVE 012 '(for by pass)	NO.	3	3					
1644	L/O/INS:760	SPARE PARTS OF ON-OFF VALVE 00012 '(for by pass)	NO.	3	3					
1645	L/O/INS:761	SPARE PARTS OF ON-OFF VALVE 202 '(for by pass)	NO.	2	2					
1646	L/O/INS:762	OIL DUST VALVE 202 '(for by pass)	NO.	1	1					
1647	L/O/INS:763	SPARE PARTS OF OIL RECIRCULATING VALVE '(for by pass)	NO.	3	3					
1648	L/O/INS:764	TRUNK TERMINAL PAPPER	NO.	2	2					
1649	L/O/INS:765	Pt- THERMAL RESISTANCE	SET	6	6					
1650	L/O/INS:766	THREE WAY PIPE K-52145-42-023-2	NO.	1	1					
1651	L/O/INS:768	QUARTZ GLASS PIECE dia 18X2	NO.	8	8					
1652	L/O/INS:771	O" CLOCK	NO.	1	1					
1653	L/O/INS:772	metal Hole	NO.	7	7					
1654	L/O/INS:775	PRESSURE SWITCH 49-1 mpa	NO.	1	1					

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1655	L/O/INS:776	THERMAL COUPLING WRNK-292 dia 5+7500	NO.	2	2					
1656	L/O/INS:782	CONNECTING OF MEASURE TEMP: (00.301.063)	NO.	8	8					
1657	L/O/INS:783	DISPLACEMENT SENSOR	NO.	2	2					
1658	L/O/INS:784	DISPLACEMENT SENSOR TQ-3	NO.	2	2					
1659	L/O/INS:785	TERMINAL BOX	NO.	4	4					
1660	L/O/INS:788	PRESSURE INDICATIOR +_ 200 mm	NO.	2	2					
1661	L/O/INS:789	ALARM METER DXB-113 0-10 us	NO.	4	4					
1662	L/O/INS:790	ALARM METER DXB-111 0-2us	NO.	3	3					
1663	L/O/INS:791	SOLENOID VALVE DFX	NO.	1	1					
1664	L/O/INS:792	THERMO COUPLING WRN.624 0-1000 C	NO.	5	5					
1665	L/O/INS:793	TEMP: CONTROLLER (XST-102)	NO.	1	1					
1666	L/O/INS:795	PRESSURE SWITCH	NO.	2	2					
1667	L/O/INS:796	LEVEL CONTROLLER UQK	NO.	6	6					
1668	L/O/INS:798	SOLENOID VALVE DF 1-3	NO.	1	1					
1669	L/O/INS:799	ELECTRODE	NO.	6	6					
1670	L/O/INS:800	NAME CARD	NO.	20	20					
1671	L/OINSS-804	Plus and mines combination zd jj-4000	NO.	2	2					
1672	L/O/INS:802	CONTROLLER COMBINATION (ZDTL-2070)	NO.	1	1					
1673	L/O/INS:803	IN PUT COMBINATION (ZDZR-1000)	NO.	1	1					
1674	L/O/INS:805	OUT PUT COMBINATION (ZDZC-3000)	NO.	2	2					
1675	L/O/INS:806	OUT PUT COMBINATION (ZDFC-1000)	NO.	1	1					
1676	L/O/INS:807	EQUILIZER COMBINATION (ZDFE-4000)	NO.	1	1					
1677	L/O/INS:808	CHANGER COMBINATION (ZDKC-3000)	NO.	2	2					
1678	L/O/INS:809	CHANGER COMBINATION (ZDKC-1090)	NO.	1	1					
1679	L/O/INS:812	DERIVATION COMBINATION (ZDJP-1000)	NO.	2	2					
1680	L/O/INS:813	RELAY COMBINATION (ZDKG-5010)	NO.	4	4					
1681	L/O/INS:814	RELAY COMBINATION (ZDKJ-1000)	NO.	1	1					
1682	L/O/INS:816	SPEED LIMITER COMBINATION (ZDFV-1000)	NO.	1	1					
1683	L/O/INS:818	LIMITER COMBINATION (ZDFF-1020)	NO.	1	1					
1684	L/O/INS:820	DIVIDER COMBINATION (ZDFS-1000)	NO.	1	1					
1685	L/O/INS:821	SELECTRO COMBINATION (ZDFC-2000)	NO.	1	1					
1686	L/O/INS:822	DISPLAY CONTROLLER (ZDFH-1000)	NO.	2	2					
1687	L/O/INS:823	THERMO REJECTANCE (WZC-190)	NO.	2	2					
1688	L/O/INS:825	CALIBRATOR	NO.	1	1					
1689	L/O/INS:826	DIGITAL RATE TOTALIZER	NO.	3	3					
1690	L/O/INS:827	GLASS PLATE (RED & GREEN)	NO.	13	13					

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1691	L/O/INS:830	TRANSISTER (3DD 301A)	NO.	24	24					
1692	L/O/INS:831	LEVEL METER (UYZ-50)	NO.	1	1					
1693	L/O/INS:844	SPRING CONNECTOR	NO.	8	8					
1694	L/O/INS:845	COVERING NUT (M6 for FSSS)	NO.	19	19					
1695	L/O/INS:846	COIL	NO.	9	9					
1696	L/O/INS:847	RELAY RG 4553204 JRC-10m	NO.	40	40					
1697	L/O/INS:848	RESISTANCE 100 ohm	NO.	5	5					
1698	L/O/INS:849	CAPACITY (CJ41 800V/2uf) 400V	NO.	4	4					
1699	L/O/INS:850	TERMINAL	NO.	10	10					
1700	L/O/INS:853	CAPACITY TYPE TRANSMITTER (VYZ-511)	NO.	2	2					
1701	L/O/INS:855	CAPACITY CD 130 450V/100 uf	NO.	1	1					
1702	L/O/INS:856	SWITCH (L WX-2.1/F4-8X)	NO.	3	3					
1703	L/O/INS:857	SWITCH (L WX-2-W-2.2/F8-X)	NO.	7	7					
1704	L/O/INS:858	VIBRATION SENDER FOR COOLING TOWER	NO.	2	2					
1705	L/O/INS:859	LOW VACCUME METER (ZDZ-31 ZDZ-2)	NO.	1	1					
1706	L/O/INS:860	TIME RELAY (D538C/2)	NO.	4	4					
1707	L/O/INS:861	TIME RELAY (DS-36C)	NO.	3	3					
1708	L/O/INS:864	IMPACT RELAY ZC-23	NO.	2	2					
1709	L/OINST865	SIGNAL RELAY (DM 15-8)	NO.	3	3					
1710	L/O/INS:870	VOLTAGE RELAY (DY25-C)	NO.	4	4					
1711	L/O/INS:871	EARTH RELAY (DD-11)	NO.	11	11					
1712	L/O/INS:876	THERMAL RELAY (T 16)	NO.	17	17					
1713	L/O/INS:877	THERMAL RELAY (JR16B-60/3)	NO.	8	8					
1714	L/O/INS:878	THERMAL RELAY (JR 15-40)	NO.	9	9					
1715	L/O/INS:880	THERMAL RELAY (FT 20 7.5 - 15A	NO.	6	6					
1716	L/O/INS:881	THERMAL RELAY (JR 16 - 20/3)	NO.	3	3					
1717	L/O/INS:882	RELAY SOCKET CZ-20	NO.	3	3					
1718	L/O/INS:883	RELAY SOCKET	NO.	6	6					
1719	L/O/INS:884	DIFFERENTIAL CONTROLLER 0823300-915	NO.	3	3					
1720	L/O/INS:889	TRANSMIT DEVICE (small)	NO.	6	6					
1721	L/O/INS:893	Time Relay JJSK 2-2 0.4 - 180	NO.	1	1					
1722	L/O/INS:902	D.C CONTACTOR CZ 0-40/20 220V	NO.	2	2					
1723	L/O/INS:907	COMBINATION SWITCH DC 220V, AC 380V	NO.	2	2					
1724	L/O/INS:909	COMBINATION SWITCH HZ 10-14/2	NO.	1	1					
1725	L/O/INS:910	SEAT (big)	NO.	148	148					
1726	L/O/INS:911	SEAT (small)	NO.	22	22					

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1	2	3	4	5	6	7	8	10	11	12
1727	L/O/INS:912	SEAT (6406)	NO.	8	8					
1728	L/O/INS:913	LIMIT SWITCH LX 12-2 220/4A	NO.	23	23					
1729	L/O/INS:915	LIMIT SWITCH JW2A-11 H/LTM 220V/3A	NO.	10	10					
1730	L/O/INS:920	LIMIT SWITCH X2N 3800/2A	NO.	8	8					
1731	L/O/INS:925	LIMIT SWITCH LX 10-121 H 10A	NO.	4	4					
1732	L/O/INS:926	LIMIT SWITCH	NO.	10	10					
1733	L/O/INS:928	AUXIALARY SWITCH CA11	NO.	8	8					
1734	L/O/INS:929	AUXIALARY SWITCH CA7	NO.	9	9					
1735	L/O/INS:932	FIXED TEMPRATURE FIRE PROBE JTN-SD-1301	NO.	3	3					
1736	L/O/INS:933	FIRE BUTTON BOX (SFAN-A 220)	NO.	7	7					
1737	L/O/INS:934	THERMAL RELAY JR 16 B 20/3 5A	NO.	6	6					
1738	L/O/INS:935	THERMAL RELAY JR 16 B 20/3 35A	NO.	10	10					
1739	L/O/INS:936	THERMAL RELAY JR 16 B 20/3 24A	NO.	10	10					
1740	L/O/INS:937	AUTO POTENTIO METER RECORDER (XWD-102)(4-20mA)	NO.	2	2					
1741	L/O/INS:938	AUXIALARY CONTACT	NO.	9	9					
1742	L/O/INS:940	MICA PIECE	NO.	60	60					
1743	L/O/INS:941	GRAPHITE WASHER	NO.	43	43					
1744	L/O/INS:942	ASBOSTOS WASHER	NO.	64	64					
1745	L/O/INS:945	TRANSFORMER FOR INDICATION 321	NO.	1	1					
1746	L/O/INS:946	ASPIRATION PYCHRA METER DHM2	NO.	5	5					
1747	L/O/INS:947	COMBUSTABLE GAS DETECTOR JB-76	NO.	1	1					
1748	L/O/INS:948	TONGUE CONTACT	NO.	7	7					
1749	L/O/INS:950	DIODE (ZP50A, 1200V)	NO.	6	6					
1750	L/O/INS:951	PLUG ELEMENT FC-02	NO.	5	5					
1751	L/O/INS:952	PLUG ELEMENT HM- 7615. ZY	NO.	1	1					
1752	L/O/INS:953	PLUG ELEMENT MM . 7617-ZY	NO.	1	1					
1753	L/O/INS:954	PLUG ELEMENT MM. 7617.ZY	NO.	5	5					
1754	L/O/INS:955	CAPACITY (CZJD 630V/4 uf)	NO.	5	5					
1755	L/O/INS:956	TRANSFORMER	NO.	1	1					
1756	L/O/INS:957	ROTOR FLOW METER (LZJ-6)	NO.	3	3					
1757	L/O/INS:958	ROTOR FLOW METER (LZB)	NO.	1	1					
1758	L/O/INS:962	Thermometer 100c 150mm	NO.	2	2					
1759	L/O/INS:963	CONNECTOR	NO.	10	10					
1760	L/O/INS:964	CONTROL TEMP: SWITCH GWK-B-B 50C	NO.	2	2					
1761	L/O/INS:965	SEALING RING (L0231-328)	NO.	5	5					
1762	L/O/INS:966	O" TYPE RING (25X2)	NO.	4	4					

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1763	L/O/INS:968	FAST FUSE (D231-650)	NO.	3	3					
1764	L/O/INS:969	ALARM CAMP D231-357	NO.	1	1					
1765	L/O/INS:970	ALARM CAMP D331-477	NO.	1	1					
1766	L/O/INS:971	FUSE (D231-504)	NO.	4	4					
1767	L/O/INS:972	FUSE (D231-529)	NO.	4	4					
1768	L/O/INS:973	ELECTRODE	NO.	1	1					
1769	L/O/INS:974	CHART PAPPER (114-1-107)	NO.	284	284					
1770	L/O/INS:975	CONNECTING WIRE	NO.	2	2					
1771	L/O/INS:976	ELECTRODE	NO.	1	1					
1772	L/O/INS:977	PRESSURE CONTROLLER (FF4-4)	NO.	2	2					
1773	L/O/INS:979	MEASURING DISPLACEMENT SUB PANNEL (008) PQAJ-N	NO.	2	2					
1774	L/O/INS:980	OVER SPEED SUB PANNEL (007) PQAJ-IV-011	NO.	2	2					
1775	L/O/INS:982	SUB-PANNEL (PQAJ-IV-010	NO.	6	6					
1776	L/O/INS:985	HAND SET STATION (M-F1C)	NO.	1	1					
1777	L/O/INS:988	Pt THERMO RESISTANT (WZB-280-PA1)	NO.	5	5					
1778	L/O/INS:989	TRANSMITTER (1151)	NO.	8	8					
1779	L/O/INS:990	CHANGE OVER SWITCH (LWX2-222/F4-8X)	NO.	3	3					
1780	L/O/INS:991	CHANGE OVER SWITCH (LWX2-Z 1111222/F4-8X)	NO.	1	1					
1781	L/O/INS:992	CHANGE OVER SWITCH (LWX2-1122/F4-8X)	NO.	2	2					
1782	L/O/INS:993	AMPLIFIER (JF-12 Cu)	NO.	1	1					
1783	L/O/INS:994	FILTER (QFH-261)	NO.	1	1					
1784	L/O/INS:998	THERMO COUPLING (WRNK2-322 dia= 5X2000K)	NO.	36	36					
1785	L/O/INS1000	THERMO COUPLING (WRNK2-321 2MK)	NO.	37	37					
1786	L/O/INS1002	FLOAT TYPE TANK LEVEL GAUGE uHZ-111	Set	2	2					
1787	L/O/INS1007	DESK SET	SET	4	4					
1788	L/O/INS1009	SPEAKER	NO.	10	10					
1789	L/O/INS1010	TRANSMITTER	NO.	21	21					
1790	L/O/INS1011	PILOT VALVE DIAPHRAGM TK 722398 C1	NO.	221	221					
1791	L/O/INS1013	Auxiliry Relay DZ-5 - 1	NO.	1	1					
1792	L/O/INS1014	Thermoresistance L-330	NO.	4	4					
1793	L/O/INS1015	MAGNETIC STARTER 660v	NO.	1	1					
1794	L/O/INS1016	Terminal Block	NO.	25	25					
1795	L/O/INS1017	Twi-Metal Thermometer 100c	NO.	2	2					
1796	L/O/INS1019	Pannel Meter 100/5A	NO.	2	2					
1797	SPM/141	Imppellar CW Pump 1400HB 405	NO.	3	3					
1798	SPM/15	Flange OD 560 ID 430mm	NO.	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
1799	SPM/20	Flange OD 1x 1/2 ID 9 1/2"	NO.	1	1					
1800	SPM/31	Flange OD 1x 1/2" ID 9"	NO.	1	1					
1801	SPM/43	Flange With Hole 1/4 1/2" x 11mm	NO.	1	1					
1802	SPM/57	Flange With Hole OD 160mm .51mm	NO.	1	1					
1803	SPM/61	Flange With Hole OD 207mm.105mm	NO.	1	1					
1804	SPM/63	Flange With Hole OD 174mm	NO.	1	1					
1805	SPM/64	Flange With Hole OD 196mm ID 190mm	NO.	1	1					
1806	SPM/71	Flange With Hole 10" x 3 1/2"	NO.	1	1					
1807	SPM/72	Flange With Hole 10"x 4 1/2"	NO.	1	1					
1808	SPM/79	Flange With Hole 220 110mm	NO.	1	1					
1809	SPM/82	Flange With Hole 215 110mm	NO.	1	1					
1810	SPM/83	Flange With Hole 200 81mm	NO.	1	1					
1811	SPM/84	Flange With Hole OD 135mm ID 40mm	NO.	17	17					
1812	SPM/87	Flange With Hole 106mm 25mm	NO.	45	45					
1813	SPM/88	Flange With Hole 95mm 19mm	NO.	16	16					
1814	SPM/89	Flange With Hole 100mm 93mm	NO.	15	15					
1815	SPM/91	Flange With Hole 105mm 25mm	NO.	37	37					
1816	SPM/92	Flange With Hole 107mm 25mm	NO.	4	4					
1817	SPM/93	Flange With Hole 115mm 43mm	NO.	3	3					
1818	SPM/94	Flange With hole 100mm 20mm	NO.	7	7					
1819	SPM/95	Flange With hole 100mm 33mm	NO.	25	25					
1820	SPM/97	Flange With Hole OD 195mm 90mm	NO.	1	1					
1821	SPM/99	Flange With Hole 227mm x100mm	NO.	1	1					
1822	SPM/100	Flange With Hole OD 160mm 57mm	NO.	1	1					
1823	SPM/101	Flange With Hole 115mm 55mm	NO.	6	6					
1824	SPM/103	Flange With Hole OD 134mm 10mm	NO.	3	3					
1825	SPM/104	Flange With Hole OD 175mm 90mm	NO.	1	1					
1826	SPM/108	Flange With Hole 180mm ID 74mm	NO.	1	1					
1827	SPM/109	Flange With Hole 150mm ID 31mm	NO.	5	5					
1828	SPM/110	Flange With Hole 175mm ID 53mm	NO.	2	2					
1829	SPM/111	Flange OD 160 ID 30mm	NO.	8	8					
1830	SPM/112	Flange OD 175mm ID 47mm	NO.	2	2					
1831	SPM/113	Flange OD 136 ID 57mm	NO.	1	1					
1832	SPM/114	Flange OD 196 ID 90mm	NO.	29	29					
1833	SPM/116	Flange OD 104 ID 17mm	NO.	1	1					
1834	SPM/117	Flange OD 134 ID 80mm	NO.	2	2					

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1	2	3	4	5	6	7	8	10	11	12
1835	SPM/118	Flange OD 160 ID 83mm	NO.	1	1					
1836	SPM/119	Flange OD 185 ID 67	NO.	1	1					
1837	SPM/120	Flange OD 160 ID 57mm	NO.	1	1					
1838	SPM/121	Flange OD 150mm ID 61mm	NO.	1	1					
1839	SPM/122	Flange 134mm	NO.	2	2					
1840	SPM/123	Flange 160mm	NO.	1	1					
1841	SPM/124	Flange 145mm\	NO.	5	5					
1842	SPM/126	Flange 160mm	NO.	1	1					
1843	SPM/127	Flange OD 180 ID 90mm	NO.	1	1					
1844	SPM/128	Flange OD 140 ID 14mm	NO.	1	1					
1845	SPM/129	Flange OD 270 ID 100	NO.	1	1					
1846	SPM/130	Flange 180mm 73mm	NO.	1	1					
1847	SPM/131	Flange 160x50	NO.	1	1					
1848	SPM/132	Flange 100x 30mm	NO.	2	2					
1849	SPM/133	Flange 240x110mm	NO.	1	1					
1850	SPM/134	Flange 100x40mm	NO.	1	1					
1851	SPM/135	Flange 100x20mm	NO.	1	1					
1852	SPM/136	Flange 240x150mm	NO.	1	1					
1853	SPM/137	Flange 160x40mm	NO.	1	1					
1854	SPM/138	Flange 170x60mm	NO.	1	1					
1855	SPM/139	Flange 240x 158mm	NO.	1	1					
1856	SPM/140	Flange 80x24mm	NO.	1	1					
1857	SPM/141	Flange 205x24mm	NO.	1	1					
1858	SPM/142	Flange 140x31mm	NO.	3	3					
1859	SPM/!43	Flange 168x137mm	NO.	1	1					
1860	SPM/144	Flange 160x55mm	NO.	1	1					
1861	SPM/145	Flange 250x170mm	NO.	3	3					
1862	SPM/148	Flange 35x21mm	NO.	1	1					
1863	SPM/149	Flange 32x18mm	NO.	1	1					
1864	SPM/150	Flange 35x23mm	NO.	1	1					
1865	SPM/151	Flange 253x43mm	NO.	9	9					
1866	SPM/52	Flange 30x15mm	NO.	1	1					
1867	SPM/153	Flange 135x15	NO.	4	4					
1868	SPM/154	Flange140x120mm	NO.	3	3					
1869	SPM/155	Flange 140x118mm	NO.	1	1					
1870	SPM/158	GI ElBOW 4'	NO.	22	22					

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1	2	3	4	5	6	7	8	10	11	12
1871	SPM/159	GI Socket 4'	NO.	75	75					
1872	SPM/160	Elbow off size 40mm	NO.	17	17					
1873	SPM/161	Round Glass Plane	NO.	93	93					
1874	SPM/162	Glass pp	NO.	3	3					
1875	SPM/163	Win clamp	NO.	14	14					
1876	SPM/164	Barrow meter	NO.	2	2					
1877	SPM/165	Sealing Ring	NO.	1	1					
1878	SPM/166	Sealing Ring	NO.	2	2					
1879	SPM/167	Impeller 152/27	NO.	1	1					
1880	SPM/168	M/S Bush Nut Off Size	NO.	45	45					
1881	SPM/169	Rubber Bush	NO.	18	18					
1882	SPM/171	Felen bush	NO.	30	30					
1883	SPM/172	Lead Hanger off size	NO.	352	352					
1884	SPM/177	Impluse franic pipe	NO.	189	189					
1885	SPM/179	Bass pipe	NO.	40	40					
1886	SPM/179	Graphiter seal off size (SET OFF/24 NO: RING)	NO.	6019	6019					
1887	SPM/180	P.V.C FLANGE OFF SIZE	NO.	4	4					
1888	SPM/181	SPONTIS NUT	NO.	50	50					
1889	SPM/182	Allem Belt off Size	NO.	141	141					
1890	SPM/184	Sealing Ring (Socket)	NO.	4	4					
1891	SPM/185	P.V.C Jumeturin board of size	NO.	30	30					
1892	SPM/186	Thimble off size	NO.	69	69					
1893	SPM/187	P.V.C Washen	NO.	1500	1500					
1894	SPM/188	P.V.C Bolt	NO.	900	900					
1895	SPM/189	Rubber Seal	NO.	23	23					
1896	SPM/190A	M.S Flange Off Size	NO.	32	32					
1897	SPM/ 192	Load Sponter Hanger Off Size	NO.	403	403					
1898	SPM/194	Welding Rod Off Size	NO.	155	155					
1899	SPM/195	Elbow off size 40mm	NO.	1	1					
1900	SPM/201	M.S Bush Off Size	NO.	100	100					
1901	SPM/206	Fire Bushing Valve Span	NO.	3	3					
1902	SPM/207	Sealing Ring Off Size	NO.	74	74					
1903	SPM/208	Rubber Off Size	NO.	100	100					
1904	SPM/209	Grinding Stove Wheel	NO.	7	7					
1905	SPM/212	Arrplidid Paste	Drum	5	5					
1906	SPM/213	P.V.C Pipe 1" Dia	NO.	197	197					

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1	2	3	4	5	6	7	8	10	11	12
1907	SPM/214	P.V.C Pipe Acid Proof	NO.	70	70					
1908	SPM/216	Batteries (U.S)	NO.	26	26					
1909	SPM/217	Junction Bore (U.S)	NO.	6	6					
1910	SPM/218	Feed Pump Bearing	NO.	1	1					
1911	SPM/220	Bearing Generation	NO.	2	2					
1912	SPM/222	Aluminium strips	NO.	15	15					
1913	SPM/223	Eye Bolt Off Size	NO.	16	16					
1914	SPM/224	Rubber Diaphram	NO.	29	29					
1915	SPM/225	Mechenical Jack Handle	NO.	25	25					
1916	SPM/226	Insulator	NO.	100	100					
1917	SPM/229	Fiber Plate	NO.	149	149					
1918	SPM/230	Fuse	NO.	4	4					
1919	SPM/231	Aluminium sporter	NO.	55	55					
1920	SPM/232	Tee Type Sorter	NO.	18	18					
1921	SPM/235	Rubber Roll Tape	NO.	4	4					
1922	SPM/236	Chamber	NO.	3	3					
1923	SPM/238	Junction Box	NO.	1	1					
1924	SPM/239	Insulator	NO.	6	6					
1925	SPM/242	Junction Box Adopter	NO.	1	1					
1926	SPM/243	Rubber Socket Off Size	NO.	213	213					
1927	SPM/244	Funnel sleeve	NO.	8	8					
1928	SPM/248	Tenmind	NO.	200	200					
1929	SPM/250	P.V.C Strips	NO.	470	470					
1930	SPM/251	Fuse Piller	NO.	3	3					
1931	SPM/252	Nut Bolt Off Size	Nos	6128.5	6128.5					
1932	SPM/254	cubical valve switch	NO.	2	2					
1933	SPM/255	salika jell	NO.	3	3					
1934	SPM/256	Water meter 50mm	NO.	6	6					
1935	SPM/257	Water meter 150mm	NO.	12	12					
1936	SPM/258	Water cand seal	MTR	`1350	`1350					
1937	SPM/259	Nut bult off size	KG	265	265					
1938	SPM/260	Rocker Off Size	NO.	34	34					
1939	SPM/261	Water meter 100mm	NO.	35	35					
1940	SPM/262	Water meter 200mm	NO.	9	9					
1941	SPM/263	Opernting culude of solonud valve	NO.	8	8					
1942	SPM/264	Water meter 80mm	NO.	43	43					

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1	2	3	4	5	6	7	8	10	11	12
1943	SPM/265	crane pully ban Bradge crane	NO.	2	2					
1944	SPM/266	Threc phasc meter 50hz 380v	NO.	1	1					
1945	SPM/269	Gate Valve J 41 - 25 Off Size	Nos	76	76					
1946	SPM/273	Sobety valve A42-X	NO.	12	12					
1947	SPM/274	Stop volve J41-H-64-32	NO.	4	4					
1948	SPM/278	Stop volve J41-64-32	NO.	59	59					
1949	SPM/279	Tee Type valve	NO.	12	12					
1950	SPM/280	Gater Valve Off Size	Nos	2	2					
1951	SPM/281	Tee Type valve pe-10 DS-50	NO.	2	2					
1952	SPM/283	Stop value Pg- 16 DJ-25	NO	2	2					
1953	SPM/284	Cack valve PG-16 DG 25-OFF SIZE	NO.	9	9					
1954	SPM/285	Stop valve J41-h-25-off size	NO.	3	3					
1955	SPM/287	Gate valve PG-16 Dg 20,25 off size	NO.	6	6					
1956	SPM/291	`Valve J41-H-25	NO.	3	3					
1957	SPM/299	p.v.c secket	NO.	46	46					
1958	SPM/300	P.V.C Elbow off size	NO.	1	1					
1959	SPM/301	P.V.C Elbow 2"	NO.	10	10					
1960	SPM/302	P.V.C Elbow 2"~1	NO.	19	19					
1961	SPM/303	P.V.C Elbow 3"	NO.	3	3					
1962	SPM/304	P.V.C Elbow off size	NO.	7	7					
1963	SPM/305	P.V.C Secket off size	NO.	16	16					
1964	SPM/306	M/S Elbow Off Size	NO.	1	1					
1965	SPM/307	valve wheel off size	NO.	13	13					
1966	SPM/309	P.V.C Elbow	NO.	22	22					
1967	SPM/310	P.V.C Elbow 4"	NO.	1	1					
1968	SPM/311	P.V.C Elbow 5"	NO.	5	5					
1969	SPM/313	P.V.C Flange with soket	NO.	2	2					
1970	SPM/315	NON Retw valve off size	NO.	3	3					
1971	SPM/316	P.V.C Socket 1|2	NO.	11	11					
1972	SPM/317	P.V.C Valve off size	NO.	10	10					
1973	SPM/318	P.V.C Socket Off sixe	NO.	10	10					
1974	SPM/319	P.V.C Clamp off size	NO.	13	13					
1975	SPM/320	P.V.C Elbow 1/4"	NO.	11	11					
1976	SPM/321	P.V.C TEE 1/2"	NO.	2	2					
1977	SPM/322	Draing valve	NO.	10	10					
1978	SPM/323	P.V.C Valve off size	NO.	6	6					

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1	2	3	4	5	6	7	8	10	11	12
1979	SPM/325	NON Retum valve 50mm	NO.	1	1					
1980	SPM/327	Stop valve Pg -100 Dg-82	NO.	60	60					
1981	SPM/329	Stop valve J41-h-25-dj 20	NO.	1	1					
1982	SPM/332	Stop Valve rubber coded 10\40	NO.	8	8					
1983	SPM/333	Stop Valve rubber coded 16/50	NO.	3	3					
1984	SPM/336	Motorised Valve	NO.	2	2					
1985	SPM/339	Valve Off Size	Nos	14	14					
1986	SPM/341	Storge of tank for chemical section	NO.	11	11					
1987	SPM/342	Guide van	NO.	1	1					
1988	SPM/344	Moterised valve PG 25/250	NO.	2	2					
1989	SPM/348	P.V.C pipe off size	NO.	121	121					
1990	SPM/350	SPRING Spon with Base 5"	NO.	50	50					
1991	SPM/351	Clamp off size	NO.	91	91					
1992	SPM/352	M.S keef	NO.	104	104					
1993	SPM/354	Elbow 8"	NO.	3	3					
1994	SPM/356	Base clamp	NO.	17	17					
1995	SPM/358	Band pipe / 2/4"	NO.	1	1					
1996	SPM/361	M.S_ win	KG	200	200					
1997	SPM/362	Boiler tubes 60x45x8mm off sixe	NO.	38	38					
1998	SPM/364	M\S pipe off size	NO.	11	11					
1999	SPM/365	M..S. ROD Off Size	NO.	650	650					
2000	SPM/367	P.V.C Band With Flange	NO.	97	97					
2001	SPM/368	P.V.C Tee Off Size	Nos	27	27					
2002	SPM/369	Fow Way P.V.C Pipe	NO.	4	4					
2003	SPM/370	M.S- Band 30"	NO.	3	3					
2004	SPM/372	Nut & bult off size	NO.	495	495					
2005	SPM/374	NON Return valve 25/250	NO.	1	1					
2006	SPM/375	Ignition rod	NO.	8	8					
2007	SPM/376	Insulation off size	NO.	15	15					
2008	SPM/377	NON Return valve 6/100	NO.	3	3					
2009	SPM/383	Salica jell	Kg	25	25					
2010	SPM/384	Stop Down Transformer 11kv / 440v / 630kvA	NO.	1	1					
2011	SPM/385	Stainless steel sheet	NO.	1	1					
2012	SPM/386	Stenen	NO.	3	3					
2013	SPM/387	M,S pipe 8" leth 13 fet	NO.	2	2					
2014	SPM/388	Porciline Insulator 55"	NO.	3	3					

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1	2	3	4	5	6	7	8	10	11	12
2015	SPM/389	Porciline Insulator 47"	NO.	1	1					
2016	SPM/390	Porciline Insulator 46"	NO.	5	5					
2017	SPM/391	Porciline Insulator 87"	NO.	1	1					
2018	SPM/392	M.S Flange 14 x 33	NO.	2	2					
2019	SPM/393	Fan blade with hub	Set	1	1					
2020	SPM/394	Acid soncerntration transmimetter	NO	2	2					
2021	SPM/396	M.S solring off size	NO.	8	8					
2022	SPM/397	M.S solring 31"	Nos	2	2					
2023	SPM/398	Air Cooler 187 kg No:179	Nos	1	1					
2024	SPM/399	Cylinder Head	Set	1	1					
2025	SPM/402	Diaphram Valve 6"	Nos	1	1					
2026	SPM/411	Elect Metter Off Size	NO.	8	8					
2027	SPM/412	Flude Indicator	Nos	20	20					
2028	SPM/413	Globe Valve Off Size	Nos	57	57					
2029	SPM/414	Globe Valve Off Size	Nos	40	40					
2030	SPM/415	P.V,C Valve Off size	Nos	18	18					
2031	SPM/416	M.S Pipe Bend 3"	Nos	36	36					
2032	SPM/417	M.S Pipe Bend 2"	Nos	144	144					
2033	SPM/418	M.S Pipe 5.6" x 3"	Nos	58	58					
2034	VTI-005	ROSTRUM STANDARD SIZE TOP DRAWERS	NO.	3	3					
2035	VTI-009	CENTER TABLE TALI WOOD TOP FARMICA SPRIT POLISH	NO.	1	1					
2036	VTI-013	NEW KINDERMAN OVERHEAD PROJECTOR OF MODEL NOVASCOPE WITH	NO.	2	2					
2037	VTI-014	MECHANISCHE WEBEREI TRIPOD TYPE SCREEN SIZE=5'X5' OF GERMAN OF	NO.	1	1					
2038	VTI-015	STEEL ANTEENA POINTER	NO.	1	1					
2039	VTI-016	OHP PPL TRANSPERENCY SHEET	NO.	4	4					
2040	VTI-017	PLAIN ACCETATE TRANSPERANCY SHEET	NO.	4	4					
2041	VTI-018	TRANSPARENCY MOUNTS	NO.	99	99					
2042	VTI-021	VCR PANASONIC SD-1	NO.	2	2					
2043	VTI-024	W/BOARD SIZE= 3'X4'=12 ft	NO.	2	2					
2044	VTI-030	MAGNETIC KNOB	NO.	7	7					
2045	VTI-031	HALOGEN LAMP	NO.	2	2					
2046	VTI-035	VERNIER CALIPER CHINA	NO.	1	1					
2047	VTI-042	BENCH VICE 3"	NO.	1	1					
2048	VTI-043	BENCH VICE 3" SADA	NO.	1	1					
2049	VTI-053	DRILL MACHINE BOSCH SWITZER	NO.	1	1					
2050	VTI-076	ROUND DIE WITH Hd 1/2"	NO.	8	8					

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1	2	3	4	5	6	7	8	10	11	12
2051	VTI-081	INSTRUCTION MODEL DIESEL ENGINE ART NO. 4044, GERMANY	NO.	1	1					
2052	VTI-082	INSTRUCTION MODEL STEAM ENGINE ART NO. 4710, GERMANY	NO.	2	2					
2053	VTI-083	INSTRUCTION MODEL OIL COOLER ORD:NO. 4989, GERMANY	NO.	1	1					
2054	VTI-115	CYCLE SCREW 1/2, 1", 1 1/4" WITH NUT WASHER	NO.	1.5	1.5					
2055	VTI-118	CABLE PRESSING MACHINE	NO.	2	2					
2056	VTI-120	CURRENT TRANSFORMER 30/5 A	NO.	1	1					
2057	VTI-124	HEAD CLEANER CASSETE	NO.	2	2					
2058	VTI-137	H/ROUND FILE 12" WITH HANDLE	NO.	1	1					
2059	VTI-138	CENTRE PUNCH / PUNCH POINTER	NO.	10	10					
2060	VTI-140	FILLER GAUGE	NO.	1	1					
2061	VTI-142	TRI- SQUARE 6"	NO.	3	3					
2062	VTI-144	GREASE GUN	NO.	1	1					
2063	VTI-146	PLASTIC HAMMER	NO.	1	1					
2064	VTI-152	INSIDE CALIPER	NO.	1	1					
2065	VTI-153	OUT SIDE CALIPER	NO.	1	1					
2066	VTI-154	PARKER (COMPASS)	NO.	2	2					
2067	VTI-155	TAP M6 WITH HANDLE	NO.	4	4					
2068	VTI-157	TAPE 1/2 WITH HANDLE ENGLAND	NO.	2	2					
2069	VTI-158	TAP 3/8 WITH HANDLE	NO.	2	2					
2070	VTI-159	TAP 1/8 WITH HANDLE	NO.	2	2					
2071	VTI-164	DIE M8 WITH HANDLE	NO.	2	2					
2072	VTI-165	DIE M6 WITH HANDLE	NO.	4	4					
2073	VTI-166	TAP M14 WITH HANDLE	NO.	3	3					
2074	VTI-188	UNIVERSAL GAUGE FISCO ENGLAND	NO.	1	1					
2075	VTI-189	SCRIBER	NO.	1	1					
2076	VTI-195	U-CLAMP	NO.	1	1					
2077	VTI-209	BADGES WITH CLIP, (FOR ID CARD)	NO.	200	200					
2078	VTI-211	OLYMPIA MANUAL TYPE WRITER WITH 18" CARRIAGE	NO.	4	4					
2079	VTI-213	GASTETNER DUPLICATING MACHINE MODEL NO. 1045E, SERIAL NO. 3A297	NO.	1	1					
2080	VTI-234	NUT BOLT 5/16 X 2 1/2"	KG	5	5					
2081	VTI-236	L-TYPE SCREW BRASS 1/4X2"	GRASS	92	92					
2082	VTI-239	BENCH VICE 3"	NO.	5	5					
2083	VTI-240	BENCH VICE 4"	NO.	2	2					
2084	VTI-241	BENCH VICE 4" ANVIL	NO.	6	6					
2085	VTI-243	ELECTRICAL DRILL MACHINE BOSCH	NO.	1	1					
2086	VTI-246	CUT SCREW 3/4"	NO.	1	1					

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2087	VTI-253	STEEL VERNIER CALIPER 6"	NO.	2	2					
2088	VTI-254	PLASTIC VERNIER 6"	NO.	2	2					
2089	VTI-263	HACK SAW FRAME PAK	NO.	8	8					
2090	VTI-264	MICRO METER 0-25 CHINA	NO.	3	3					
2091	VTI-266	DIAL INDICATOR	NO.	6	6					
2092	VTI-278	HAMMER CROSS PEN 1LB	NO.	1	1					
2093	VTI-280	BALL PEN HAMMER	NO.	2	2					
2094	VTI-282	RUBBER HAMMER	NO.	5	5					
2095	VTI-283	C-CLAMP 3"	NO.	4	4					
2096	VTI-287	DIE SET M14 WITH HANDLE	NO.	1	1					
2097	VTI-288	DIE SET M8 WITH HANDLE	NO.	8	8					
2098	VTI-289	DIE SET M6 WITH HANDLE	NO.	4	4					
2099	VTI-290	TAP SET M14 WITH ZECO HANDLE	NO.	5	5					
2100	VTI-291	TAP SET M8 WITH ZECO HANDLE	NO.	6	6					
2101	VTI-292	TAP SET M6 WITH ZECO HANDLE	NO.	5	5					
2102	VTI-293	ROUND FILE 12" WITH HANDLE	NO.	3	3					
2103	VTI-296	THREAD GAUGE (double sided)	NO.	5	5					
2104	VTI-298	MILL FILE SET	NO.	2	2					
2105	VTI-299	TRI-SQUARE 8"	NO.	5	5					
2106	VTI-302	OIL GUN	NO.	3	3					
2107	VTI-303	UNIVERSAL GAUGE	NO.	5	5					
2108	VTI-308	PILLOW BEARING PEDISTAL	NO.	2	2					
2109	VTI-320	ALUMINIUM PATTI	FT	240	240					
2110	VTI-328	CENTRE PUNCH CHINA	NO.	2	2					
2111	VTI-329	WOODEN SCREW	NO.	1	1					
2112	VTI-330	CLAW HAMMER	NO.	2	2					
2113	VTI-332	INSIDE CALIPER 8"	NO.	4	4					
2114	VTI-333	OUT SIDE CALIPER 8"	NO.	4	4					
2115	VTI-334	COMPASS (PARKER)	NO.	4	4					
2116	VTI-335	SCRIBBER	NO.	3	3					
2117	VTI-337	MOTOR 1/2 H.P 1450 rpm NATIONAL CHINA	NO.	2	2					
2118	VTI-339	MOTOR 7.5 H.P, 1450 rpm 3 phase	NO.	2	2					
2119	VTI-340	NATIONAL VIDEO CASSETE E-180 JAPAN	NO.	38	38					
2120	VTI-341	TRANSPERENCIES	PKT	1	1					
2121	VTI-342	FILE COVER	NO.	2	2					
2122	VTI-356	PIANO BULB HOLDER	NO.	2	2					

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1	2	3	4	5	6	7	8	10	11	12
2123	VTI-360	SHADDLE 1/2"-3/4"	NO.	64	64					
2124	VTI-361	CAPACITOR 2.2 OILY	NO.	1	1					
2125	VTI-381	OUTER CONNECTOR 6A	NO.	9	9					
2126	VTI-384	SCREW DRIVER 4"	NO.	14	14					
2127	VTI-388	PARKER STEEL	NO.	11	11					
2128	VTI-389	PAKER WOOD	NO.	13	13					
2129	VTI-393	INDICATOR IRONED WELDED DOUBLE SIDED BOARD	NO.	4	4					
2130	VTI-394	WELCOME BOARD DOUBLE SIDED COMPLETE IN ALL RESPECT SIZE= 8X6'	NO.	1	1					
2131	VTI-395	AYAT SHARIF BOARD SIZE= 13'.4"X2'	NO.	1	1					
2132	VTI-396	WOODEN DOUBLE SIDED NAMES/DISCRIPTION BOARD	NO.	10	10					
2133	VTI-400	BOARD IRONED ANGLE WELDED SIZE= 8'X4'	NO.	1	1					
2134	VTI-407	CENTRE TABLE TALI WOOD 4'X2' FORMICA TOP	NO.	1	1					
2135	VTI-414	STOOL TALI WOOD	NO.	2	2					
2136	VTI-416	TAP HANDLE OFF SIZE	NO.	9	9					
2137	VTI-418	GLASS LOCK	NO.	2	2					
2138	VTI-421	COMBINED SWITCH 10A	NO.	1	1					
2139	VTI-422	TUMBLER SWITCH	NO.	3	3					
2140	VTI-424	APPRON WITH RED BAND	NO.	11	11					
2141	VTI-428	INSTRUCTOR BADGES	NO.	5	5					
2142	VTI-429	ELECTRIC POWER BOARD WITH FITTINGS	NO.	5	5					
2143	VTI-430	ELECTRIC LIGHT BOARD 220V AC BUS BAR	NO.	5	5					
2144	VTI-431	MOTOR PARTS DISPLAY BOARD SINGLE PHASE AC MOTOR	NO.	5	5					
2145	VTI-432	BASIC ELECTRIC FITTING BOARD	NO.	5	5					
2146	VTI-433	BOARD STAND	NO.	8	8					
2147	VTI-435	TOOL DISPLAY BOARD WRITTEN (Mech: T&P table top)	NO.	8	8					
2148	VTI-436	ELECTRIC LAB EXP: BOARD	NO.	2	2					
2149	VTI-437	ELECTRIC LAB BOARD	NO.	2	2					
2150	VTI-438	VICE TABLE	NO.	4	4					
2151	VTI-439	STOOL FOR BENCH GRINDER	NO.	1	1					
2152	VTI-440	TOOL DISPLAY BOARD	NO.	2	2					
2153	VTI-441	STOOL FOR PUMP	NO.	1	1					
2154	VTI-442	WOODEN TOPS FOR STOOL	NO.	6	6					
2155	VTI-445	T.V TROLLY	NO.	1	1					
2156	VTI-446	TABLE SET	NO.	1	1					
2157	VTI-447	PEN HOLDER	NO.	1	1					
2158	VTI-448	STAMP PAD	NO.	1	1					

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2159	VTI-451	SMALL FRAME WITH LARGE STAND	NO.	8	8					
2160	VTI-452	IRON TABLE 6X4	NO.	13	13					
2161	VTI-453	IRON TABLE 3X5	NO.	10	10					
2162	VTI-454	IRON TABLE	NO.	4	4					
2163	VTI-456	IMBORSING STAMP	NO.	1	1					
2164	VTI-461	SIGN BOARD 11.8'X4'	NO.	1	1					
2165	VTI-462	SIGN BOARD 8'X4'	NO.	1	1					
2166	VTI-464	BLACK BOARD WITH WOODEN STAND PORTABLE	NO.	2	2					
2167	VTI-465	BLACK BOARD LARGE PORTABLE WITH STAND	NO.	1	1					
2168	VTI-466	400 volts A.C bus bar board for electrical work shop along with all electrical fittings ir	NO.	1	1					
2169	VTI-468	SINGLE PHASE 1/2 HP, AC display board with large / small stand with top	NO.	1	1					
2170	VTI-469	BASIC ELECTRIC FITTINGS BOARD WITH LARGE / SMALL FRAME WITH TO	NO.	1	1					
2171	VTI-470	220V AC bus bar board electrical work shop with all fittings large stand with top	NO.	1	1					
2172	VTI-482	PLASTIC WATER COOLER	NO.	1	1					
2173	VTI-484	PHOTO COPIER MACHINE XEROX 1025 COMPLETE WITH ALMIRAH STAND	NO.	1	1					
2174	VTI-503	VIDEO CASSETE NUS COAL	NO.	13	13					
2175	VTI-504	SIGN BOARD (training centre)	NO.	1	1					
2176	LOM-01	Elbow	NO.	17	17					
2177	LOM-04	Elbow	NO.	4	4					
2178	LOM-05	TEE	NO.	1	1					
2179	LOM-06	TEE	NO.	4	4					
2180	LOM-07	Elbow	NO.	1	1					
2181	LOM-08	Flange	NO.	3	3					
2182	LOM-09	FLANGE	NO.	18	18					
2183	LOM-11	Stay coupling	NO.	192	192					
2184	LOM-12	Stay coupling	NO.	44	44					
2185	LOM-14	Stay coupling	NO.	47	47					
2186	LOM-15	Stay coupling	NO.	24	24					
2187	LOM-17	Flange	NO.	8	8					
2188	LOM-21	Valve bush	NO.	4	4					
2189	LOM-22	Reducer	NO.	24	24					
2190	LOM-25	NUT	NO.	12	12					
2191	LOM-26	NUT	NO.	7	7					
2192	LOM-29	NUT & BOLT	NO.	1	1					
2193	LOM-37	Tapper washer	NO.	205	205					
2194	LOM-38	Tapper washer	NO.	18	18					

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1	2	3	4	5	6	7	8	10	11	12
2195	LOM-39	Tapper washer	Roll	155	155					
2196	LOM-40	STUD	NO.	21	21					
2197	LOM-41	STUD	NO.	27	27					
2198	LOM-42	Tapper washer	Set	42	42					
2199	LOM-44	Tapper washer	Set	44	44					
2200	LOM-46	NUT & BOLT	NO.	38	38					
2201	LOM-47	NUT & BOLT	NO.	16	16					
2202	LOM-49	Reducer	NO.	58	58					
2203	LOM-50	Gland nut	NO.	24	24					
2204	LOM-51	NUT & BOLT	NO.	31	31					
2205	LOM-52	PLUG	NO.	25	25					
2206	LOM-53	PLUG	NO.	19	19					
2207	LOM-55	STUD	NO.	126	126					
2208	LOM-58	Reducer	NO.	95	95					
2209	LOM-59	Reducer	NO.	50	50					
2210	LOM-60	Reducer	NO.	1	1					
2211	LOM-61	Reducer	NO.	46	46					
2212	LOM-62	Reducer	NO.	12	12					
2213	LOM-63	Reducer	NO.	54	54					
2214	LOM-64	HP TEE	NO.	236	236					
2215	LOM-68	Elbow	NO.	5	5					
2216	LOM-69	Elbow	NO.	2	2					
2217	LOM-70	Neddle valve	NO.	3	3					
2218	LOM-71	CO 2 compreser	NO.	3	3					
2219	LOM-73	Butter fly valve	NO.	7	7					
2220	LOM-76	Manual mono ginder trolly	NO.	14	14					
2221	LOM-77	Leqiued level diffrance secendery	NO.	2	2					
2222	LOM-80	Pump casing	NO.	2	2					
2223	LOM-82	Pump casing	NO.	2	2					
2224	LOM-89	Cover of coupling	NO.	1	1					
2225	LOM-90	Cover of coupling	NO.	1	1					
2226	LOM-92	Bearing sleeve	NO.	2	2					
2227	LOM-94	bolt	NO.	40	40					
2228	LOM-96	Adjusting nut	NO.	2	2					
2229	LOM-98	Shaft sleeve	NO.	5	5					
2230	LOM-99	End nut	NO.	3	3					

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1	2	3	4	5	6	7	8	10	11	12
2231	LOM-100	Shaft liner	NO.	1	1					
2232	LOM-112	Tube	NO.	37	37					
2233	LOM-113	Tube	NO.	2	2					
2234	LOM-114	Middle shaft	NO.	2	2					
2235	LOM-118	Drcived shaft	NO.	2	2					
2236	LOM-120	Discharge pipe	NO.	1	1					
2237	LOM-121	Discharge pipe	NO.	1	1					
2238	LOM-129	rubber bearing	NO.	9	9					
2239	LOM-132	Shaft head	NO.	10	10					
2240	LOM-136	Leavel plate	NO.	2	2					
2241	LOM-137	WASHER	NO.	1	1					
2242	LOM-138	Rubber plate	NO.	4	4					
2243	LOM-140	Connecting flange	NO.	14	14					
2244	LOM-141	Adjusting valve	NO.	2	2					
2245	LOM-142	Spring type safty valve	NO.	12	12					
2246	LOM-143	Spring type safty valve	NO.	1	1					
2247	LOM-144	Spring type safty valve	NO.	6	6					
2248	LOM-145	Spring type safty valve	NO.	2	2					
2249	LOM-147	Neddle valve	NO.	6	6					
2250	LOM-148	Neddle valve	NO.	1	1					
2251	LOM-157	Right angle valve	NO.	16	16					
2252	LOM-158	Globe valve	NO.	1	1					
2253	LOM-159	WASHER	NO.	2	2					
2254	LOM-160	WASHER	NO.	12	12					
2255	LOM-161	WASHER	NO.	2	2					
2256	LOM-164	Gear ring	NO.	8	8					
2257	LOM-165	Gear ring	NO.	6	6					
2258	LOM-167	Coecting pipe	NO.	4	4					
2259	LOM-168	Stop valve	NO.	1	1					
2260	LOM-169	Stop valve	NO.	1	1					
2261	LOM-171	CHOKING VALVE	NO.	1	1					
2262	LOM-180	Liqued flow valve	NO.	3	3					
2263	LOM-199	Stop valve	NO.	1	1					
2264	LOM-203	Globe valve	NO.	2	2					
2265	LOM-208	Stop valve	NO.	4	4					
2266	LOM-222	diaphram spring	NO.	11	11					

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2267	LOM-223	Spring	NO.	6	6					
2268	LOM-224	ABS Valve	NO.	22	22					
2269	LOM-225	ABS Valve	NO.	12	12					
2270	LOM-229	Screw rod valve	NO.	3	3					
2271	LOM-230	GATE VALVE	NO.	1	1					
2272	LOM-232	Neddle valve	NO.	5	5					
2273	LOM-234	Filter	NO.	2	2					
2274	LOM-235	Filter	NO.	2	2					
2275	LOM-244	Big end housing	NO.	46	46					
2276	LOM-245	Cross head piun	NO.	24	24					
2277	LOM-248	PAKING RING	NO.	44	44					
2278	LOM-249	BUSHING	NO.	23	23					
2279	LOM-251	Rubber gasket	NO.	6	6					
2280	LOM-253	Gauge joint	NO.	1	1					
2281	lom-254	Gauge joint	NO.	2	2					
2282	LOM-255	Electic preheater plug	NO.	5	5					
2283	LOM-256	Water seat assembly	NO.	2	2					
2284	LOM-257	Butter fly spring	NO.	3	3					
2285	LOM-259	SPRING	NO.	8	8					
2286	LOM-261	Spare parts of starting motors	NO.	1	1					
2287	LOM-265	Connecting rod	NO.	4	4					
2288	LOM-266	Sit element	NO.	6	6					
2289	LOM-269	Cylinder head gasket	NO.	4	4					
2290	LOM-271	Compersser ring	NO.	12	12					
2291	LOM-273	Fiting net filter	NO.	8	8					
2292	LOM-274	EXTRNAL VALVE	NO.	6	6					
2293	LOM-277	Solined valve	NO.	6	6					
2294	LOM-279	Solined valve	NO.	2	2					
2295	LOM-280	Safty valve	NO.	8	8					
2296	LOM-281	Bearing	NO.	2	2					
2297	LOM-288	Elecrical bolt	NO.	2	2					
2298	LOM-289	Auto air valve	NO.	4	4					
2299	LOM-291	Sleeve	NO.	2	2					
2300	LOM-297	Redial bushing	NO.	1	1					
2301	LOM-298	Coupling	Set	1	1					
2302	LOM-299	Coupling	NO.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2303	LOM-300	Thursting dram	NO.	2	2					
2304	LOM-301	Thursting BUSHING	NO.	8	8					
2305	LOM-302	DRAINING SMALL CONING	NO.	4	4					
2306	LOM-306	Twu=isted roots	NO.	3	3					
2307	LOM-310	Flow indecetion	Set	7	7					
2308	LOM-311	Elbow	NO.	18	18					
2309	LOM-314	Coning	NO.	7	7					
2310	LOM-315	Wounded gasket	NO.	23	23					
2311	LOM-319	Shaft nut	NO.	2	2					
2312	LOM-323	Sealing ring	NO.	1	1					
2313	LOM-327	Clamp sleeve	NO.	7	7					
2314	LOM-328	Gasket	NO.	1	1					
2315	LOM-330	Shaft sleeve	NO.	1	1					
2316	LOM-331	PAKING sleeve	NO.	2	2					
2317	LOM-332	Fixing sleeve	NO.	3	3					
2318	LOM-336	BEARING	NO.	1	1					
2319	LOM-338	KEY	NO.	1	1					
2320	LOM-342	Pump casing	NO.	10	10					
2321	LOM-344	Sealing ring	NO.	5	5					
2322	LOM-346	Sealing ring	NO.	4	4					
2323	LOM-349	BUSHING	NO.	3	3					
2324	LOM-350	REPELLING OIL BORD	NO.	8	8					
2325	LOM-352	Foot lag	NO.	2	2					
2326	LOM-353	Spare parts of bridge crane	Set	2	2					
2327	LOM-354	diaphram	NO.	23	23					
2328	LOM-357	Valve ball	NO.	1	1					
2329	LOM-367	ABS thread conecter	NO.	3	3					
2330	LOM-368	ABS thread conecter	NO.	3	3					
2331	LOM-369	ABS thread conecter	NO.	7	7					
2332	LOM-370	ABS thread conecter	NO.	16	16					
2333	LOM-371	ABS thread conecter	NO.	15	15					
2334	LOM-372	ABS thread conecter	NO.	8	8					
2335	LOM-373	Pipe conecter	NO.	1	1					
2336	LOM-379	Pipe conecter	NO.	8	8					
2337	LOM-381	PLUG	NO.	4	4					
2338	LOM-382	PLUG	NO.	3	3					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2339	LOM-383	Bigger small conecter	NO.	2	2					
2340	LOM-385	Grip	NO.	10	10					
2341	LOM-389	Elbow	NO.	1	1					
2342	LOM-390	Three way connecter	NO.	11	11					
2343	LOM-391	Three way connecter	NO.	30	30					
2344	LOM-393	Three way connecter	NO.	3	3					
2345	LOM-394	Three way connecter	NO.	5	5					
2346	LOM-397	Stranier	NO.	200	200					
2347	LOM-405	ABS pipe (40)	NO.	2	2					
2348	LOM-407	ABS pipe (20)	NO.	7	7					
2349	LOM-410	Steel pipe 70 x7 x921	NO.	2	2					
2350	LOM-414	Float Ball	NO.	8	8					
2351	LOM-415	Float Ball (big)	NO.	22	22					
2352	LOM-416	Float Ball (small)	NO.	2	2					
2353	LOM-421	Twi-omgle lap (c3150)	NO.	6	6					
2354	LOM-422	Twi-omgle lap (c138)	NO.	5	5					
2355	LOM-423	Rubber gasket	NO.	44	44					
2356	LOM-424	Rubber gasket (sefune)210x180	NO.	7	7					
2357	LOM-433	Needle plug for making H2	NO.	4	4					
2358	LOM-436	Diaphram	NO.	1	1					
2359	LOM-437	diaphram	NO.	8	8					
2360	LOM-438	LINER	NO.	32	32					
2361	LOM-444	Nyleon sleeve	NO.	49	49					
2362	LOM-447	WASHER	NO.	32	32					
2363	LOM-448	Filt net	NO.	25	25					
2364	LOM-449	Coining	NO.	2	2					
2365	LOM-450	Diaphram with copper plate	NO.	10	10					
2366	LOM-451	Air fitting reducer	NO.	5	5					
2367	LOM-452	Spare parts of penewmatic	Set	1	1					
2368	LOM-454	O RING	NO.	2	2					
2369	LOM-455	O RING	NO.	2	2					
2370	LOM-457	O RING	NO.	2	2					
2371	LOM-460	Lock valve	NO.	4	4					
2372	LOM-461	Retan positon valve	NO.	12	12					
2373	LOM-464	Ball union	NO.	6	6					
2374	LOM-465	Ball union	NO.	4	4					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2375	LOM-467	Connecting pipe	NO.	1	1					
2376	LOM-468	BS Pipe	NO.	80	80					
2377	LOM-469	Impleller	NO.	18	18					
2378	LOM-470	Impleller	NO.	4	4					
2379	LOM-471	Thrust block	NO.	2	2					
2380	LOM-472	Thrust block	NO.	1	1					
2381	LOM-473	Driver block	NO.	2	2					
2382	LOM 474	Push ring	NO.	6	6					
2383	LOM-475	Push ring	NO.	7	7					
2384	LOM-476	Sealing ring	NO.	2	2					
2385	LOM-477	Mechine seal	NO.	1	1					
2386	LOM-478	Push nut	NO.	2	2					
2387	LOM-479	Shaft sleeve	NO.	2	2					
2388	LOM-481	Shaft sleeve	NO.	2	2					
2389	LOM-484	bearing 8210	NO.	7	7					
2390	LOM-486	Gasket	NO.	2	2					
2391	LOM-487	Ball union	NO.	6	6					
2392	LOM-489	Ball union	NO.	1	1					
2393	LOM-490	Ball union	NO.	3	3					
2394	LOM-491	Ball union	Set	2	2					
2395	LOM-492	Ball union	Set	6	6					
2396	LOM-493	HP Connecting pipe	NO.	7	7					
2397	LOM-495	Steel tap with hole	NO.	20	20					
2398	LOM-497	Cross head piun	NO.	50	50					
2399	LOM-498	Connecting bolt	NO.	7	7					
2400	LOM-501	Adjuster 100 c	NO.	4	4					
2401	LOM 502	Adjuster	NO.	1	1					
2402	LOM-506	Sealing ring	NO.	1	1					
2403	LOM-509	Abstas paking	NO.	59	59					
2404	LOM-510	Filter case	NO.	1	1					
2405	LOM-511	oil filter	NO.	5	5					
2406	LOM-512	Graphite washer	NO.	18	18					
2407	LOM-513	Fitting valve	NO.	12	12					
2408	LOM-514	Fitting valve	NO.	20	20					
2409	LOM-515	Graphite washer	NO.	6	6					
2410	LOM-516	Graphite washer	NO.	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2411	LOM-518	Graphite washer	NO.	44	44					
2412	LOM-519	Sealing ring	NO.	1	1					
2413	LOM-521	Repller for by pass	NO.	19	19					
2414	LOM-522	BUSHING	NO.	12	12					
2415	LOM-525	Alcphol acid paont	NO.	2	2					
2416	LOM-527	VALVE PLATE	NO.	7	7					
2417	LOM-528	VALVE PLATE	NO.	5	5					
2418	LOM-529	VALVE PLATE	NO.	2	2					
2419	LOM-531	Fill N2 loal	Set	1	1					
2420	LOM-532	Cooecter of exast pipe	NO.	2	2					
2421	LOM-533	Gas adjust valve	Set	2	2					
2422	LOM-534	Filter	NO.	128	128					
2423	LOM-535	FILTER	NO.	25	25					
2424	LOM-536	Steam seal of reheater	NO.	7	7					
2425	LOM-537	Steam seal of reheater	NO.	1	1					
2426	LOM-538	Steam seal of reheater	NO.	6	6					
2427	LOM-545	Steel wire	NO.	500	500					
2428	LOM-550	Spray plate	NO.	18	18					
2429	LOM-551	Spray plate	NO.	20	20					
2430	LOM-552	Oil gun	NO.	7	7					
2431	LOM-553	REDUCER GEAR	NO.	4	4					
2432	LOM-554	Air active device	NO.	4	4					
2433	LOM-555	Gasket	NO.	6	6					
2434	LOM-556	Babbit melat	NO.	5	5					
2435	LOM-557	Si- rubber gasket	NO.	14	14					
2436	LOM-558	Butter fly valve	NO.	2	2					
2437	LOM-561	SR wraner go (+)	NO.	2	2					
2438	LOM-562	Rubber washer	NO.	20	20					
2439	LOM-563	Rubber washer	NO.	8	8					
2440	LOM-564	Sui- washer rubber	NO.	28	28					
2441	LOM-565	Flange	NO.	4	4					
2442	LOM-567	Stap up plate	NO.	4	4					
2443	LOM-569	Connecting pipe	NO.	3	3					
2444	LOM-573	Gasket	NO.	34	34					
2445	LOM-574	PIN	NO.	3	3					
2446	LOM-577	Bolt	NO.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2447	LOM-578	PIN	NO.	1	1					
2448	LOM-580	NUT	NO.	7	7					
2449	LOM-582	Spring piece	NO.	59	59					
2450	LOM-583	Tooth washer	NO.	3	3					
2451	LOM-585	WASHER	NO.	13	13					
2452	LOM-586	Glass peise	NO.	5	5					
2453	LOM-590	Machine seal	NO.	1	1					
2454	LOM-595	Special nut	NO.	2	2					
2455	LOM-596	Steam seat	NO.	32	32					
2456	LOM-597	Block washer	NO.	48	48					
2457	LOM-598	Wedge piece	NO.	75	75					
2458	LOM-599	Slape wedge	NO.	110	110					
2459	LOM-600	Slat wedge	NO.	108	108					
2460	LOM-601	Spacer	NO.	20	20					
2461	LOM-602	Spacer	NO.	6	6					
2462	LOM-603	Insulatry bin	NO.	7	7					
2463	LOM-604	Adjust gasket	NO.	100	100					
2464	LOM-605	Adjust valve	NO.	1	1					
2465	LOM-606	Prenewmatic valve spare parts	NO.	1	1					
2466	LOM-607	Tooth washer	NO.	9	9					
2467	LOM-608	Spare parts	Set	2	2					
2468	LOM-609	REAMER	NO.	5	5					
2469	LOM-610	Special bolt	NO.	16	16					
2470	LOM-611	Special bolt	NO.	2	2					
2471	LOM-612	Special bolt	NO.	4	4					
2472	LOM-618	Special bolt	NO.	1	1					
2473	LOM-619	Special bolt	NO.	2	2					
2474	LOM-622	Steam seat	Set	10	10					
2475	LOM-624	Spent nut	NO.	3	3					
2476	LOM-632	Special bolt	NO.	3	3					
2477	LOM-634	Shaft sleeve	NO.	2	2					
2478	LOM-635	Electric making ream	NO.	3	3					
2479	LOM-642	Special bolt	NO.	4	4					
2480	LOM-644	Special nut	NO.	2	2					
2481	LOM-645	Special nut	NO.	3	3					
2482	LOM-646	Special nut	NO.	15	15					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2483	LOM-651	Special nut	NO.	8	8					
2484	LOM=654	NUT	NO.	2	2					
2485	LOM-655	NUT	NO.	2	2					
2486	LOM-658	Special bolt	NO.	3	3					
2487	LOM-661	Bolt	NO.	6	6					
2488	LOM-662	PIN	NO.	12	12					
2489	LOM-663	Spare parts of crane	NO.	1	1					
2490	LOM-667	PIN	NO.	5	5					
2491	LOM-669	RUBBER GASKET	NO.	4	4					
2492	LOM-671	Bolt	NO.	2	2					
2493	LOM-673	Connecter	NO.	5	5					
2494	LOM-674	LV Spare parts	NO.	1	1					
2495	LOM-675	Copper nut	NO.	1	1					
2496	LOM-676	Mechinchal seal	NO.	1	1					
2497	LOM-680	Connecting pipe	NO.	27	27					
2498	LOM-682	Single valve	NO.	2	2					
2499	LOM-683	Connecter	NO.	9	9					
2500	LOM-685	CONNECTER	NO.	25	25					
2501	LOM-686	CONNECTER	NO.	10	10					
2502	LOM-688	CONNECTER	NO.	10	10					
2503	LOM-690	CONNECTER	NO.	10	10					
2504	LOM-691	CONNECTER	NO.	9	9					
2505	LOM-694	Shaft sleeve	NO.	3	3					
2506	LOM-695	Connecter	NO.	11	11					
2507	LOM-696	Connecter	NO.	9	9					
2508	LOM-697	Connecter	NO.	24	24					
2509	LOM-698	Connecter	NO.	2	2					
2510	LOM-699	Connecter	NO.	30	30					
2511	LOM-700	Connecter	NO.	26	26					
2512	LOM-701	Connecter	NO.	17	17					
2513	LOM-702	Connecter	NO.	10	10					
2514	LOM-704	Connecter	NO.	10	10					
2515	LOM-705	Connecter	NO.	5	5					
2516	LOM-706	Connecter	NO.	5	5					
2517	LOM-707	Connecter	NO.	26	26					
2518	LOM-708	Spring	NO.	18	18					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2519	LOM-709	Spring	NO.	76	76					
2520	LOM-710	PIN	NO.	1	1					
2521	LOM-711	Bolt	NO.	180	180					
2522	LOM-712	Bolt	NO.	4	4					
2523	LOM-713	Bolt	NO.	3	3					
2524	LOM-714	Bolt	NO.	5	5					
2525	LOM-715	Bolt	NO.	5	5					
2526	LOM-716	Bolt	NO.	1	1					
2527	LOM-717	Bolt	NO.	5	5					
2528	LOM-718	Bolt	NO.	5	5					
2529	LOM-720	Bolt	NO.	1	1					
2530	LOM-726	PIN	NO.	2	2					
2531	LOM-728	PIN	NO.	5	5					
2532	LOM-729	RING	NO.	3	3					
2533	LOM-730	RING	NO.	7	7					
2534	LOM-732	Lock washer	NO.	2	2					
2535	LOM-735	WASHER	NO.	1	1					
2536	LOM-737	RING	NO.	1	1					
2537	LOM-741	NUT	NO.	3	3					
2538	LOM-744	NUT	NO.	3	3					
2539	LOM-745	NUT	NO.	1	1					
2540	LOM-746	Gasket	NO.	36	36					
2541	LOM-747	Lock washer	NO.	10	10					
2542	LOM-748	Balance device	NO.	16	16					
2543	LOM-749	Balance device	NO.	6	6					
2544	LOM-750	Balance device	NO.	17	17					
2545	LOM-752	Balance device	NO.	20	20					
2546	LOM-753	Balance device	NO.	1	1					
2547	LOM-754	Balance device	NO.	20	20					
2548	LOM-755	Balance device	NO.	23	23					
2549	LOM-756	Balance device	NO.	10	10					
2550	LOM-757	Balance device	NO.	11	11					
2551	LOM-758	Gasket	NO.	18	18					
2552	LOM-759	WASHER	NO.	11	11					
2553	LOM-760	WASHER	NO.	20	20					
2554	LOM-761	WASHER	NO.	10	10					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2555	LOM-762	WASHER	NO.	20	20					
2556	LOM-763	WASHER	NO.	10	10					
2557	LOM-764	WASHER	NO.	15	15					
2558	LOM-765	Balance device	NO.	10	10					
2559	LOM-766	WASHER	NO.	12	12					
2560	LOM-767	Connecter	NO.	16	16					
2561	LOM-769	Connecting rod	NO.	26	26					
2562	LOM-770	FILTER	NO.	10	10					
2563	LOM-771	Warer meter spare parts	NO.	2	2					
2564	LOM-772	bearing 3624	NO.	5	5					
2565	LOM-773	Sample set	NO.	9	9					
2566	LOM-774	Valve	NO.	4	4					
2567	LOM-775	Leveal glass plate	NO.	2	2					
2568	LOM-776	Glass damper	NO.	18	18					
2569	LOM-784	Cover	NO.	6	6					
2570	LOM-785	Bolt	NO.	5	5					
2571	LOM-787	KEY	NO.	16	16					
2572	LOM-790	Spare parts of left up pump	NO.	1	1					
2573	LOM-792	Valve	NO.	29	29					
2574	LOM-796	Shaft sleeve	NO.	2	2					
2575	LOM-797	Sealing ring	NO.	1	1					
2576	LOM-800	Impeller	NO.	2	2					
2577	LOM-802	Sealing ring	NO.	4	4					
2578	LOM-804	Sealing ring	NO.	3	3					
2579	LOM-805	Guiede bearing	NO.	7	7					
2580	LOM-807	Sealing ring	NO.	4	4					
2581	LOM-808	Rubber coupling	NO.	2	2					
2582	LOM-809	Machine seal	NO.	3	3					
2583	LOM-811	Lower seleeve	NO.	4	4					
2584	LOM-812	Guiede bearing	NO.	1	1					
2585	LOM-813	Sealing ring	NO.	4	4					
2586	LOM-814	Machine seal	NO.	6	6					
2587	LOM-815	Impeller	NO.	3	3					
2588	LOM-817	Sealing ring	NO.	4	4					
2589	LOM-821	Sealing ring	NO.	8	8					
2590	LOM-822	Coning	NO.	3	3					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2591	LOM-827	Guiede bearing	NO.	12	12					
2592	LOM-828	Cannecting nut	NO.	2	2					
2593	LOM-829	Pump sealing	NO.	2	2					
2594	LOM-831	Connecting bar	NO.	1	1					
2595	LOM-832	Lock washer	NO.	2	2					
2596	LOM-833	Pump coupling	NO.	8	8					
2597	LOM-834	Motor coupling	NO.	5	5					
2598	LOM-835	Middle coupling	NO.	10	10					
2599	LOM-836	Plus lang coupling	NO.	9	9					
2600	LOM-837	Motor coupling	NO.	3	3					
2601	LOM-838	Sleeve for 6sqv-sp	NO.	29	29					
2602	LOM-839	Impeller	NO.	20	20					
2603	LOM-841	PUMP CASING	NO.	3	3					
2604	LOM-842	Impeller	NO.	1	1					
2605	LOM-846	Impeller	NO.	4	4					
2606	LOM-848	Bearing sleeve	NO.	2	2					
2607	LOM-849	Impeller	NO.	3	3					
2608	LOM-850	Pump sealing ring	NO.	2	2					
2609	LOM-851	Sleeve	NO.	3	3					
2610	LOM-852	NUT	NO.	1	1					
2611	LOM-854	Clamp ring	NO.	7	7					
2612	LOM-855	Machine seal	NO.	3	3					
2613	LOM-858	Warm wheel rod assembly	NO.	1	1					
2614	LOM-859	Rubber coupling	NO.	2	2					
2615	LOM-860	Main thrust sleeve	NO.	5	5					
2616	LOM-861	Drinen thrust sleeve	NO.	9	9					
2617	LOM-862	SLEEVE	NO.	2	2					
2618	LOM-864	Coupling	NO.	69	69					
2619	LOM-865	Guiede bearing	NO.	21	21					
2620	LOM-866	KEY	NO.	1	1					
2621	LOM-867	Impeller	NO.	4	4					
2622	LOM-868	POUR POT	NO.	3	3					
2623	LOM-869	Adjust nut	NO.	4	4					
2624	LOM-870	Support	NO.	30	30					
2625	LOM-873	Gasket	NO.	5	5					
2626	LOM-874	Connecting doan	NO.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2627	LOM-877	Machine seal	NO.	1	1					
2628	LOM-880	Rubber coupling	NO.	2	2					
2629	LOM-891	Lock gasket	NO.	6	6					
2630	LOM-892	Lock gasket	NO.	5	5					
2631	LOM-894	Gasket	NO.	1	1					
2632	LOM-895	Hand pump	NO.	2	2					
2633	LOM-901	Nozzle	NO.	30	30					
2634	LOM-902	Glass plate	NO.	12	12					
2635	LOM-903	Glass plate	NO.	9	9					
2636	LOM-904	Glass plate	NO.	2	2					
2637	LOM-905	Glass plate	NO.	3	3					
2638	LOM-911	Gear for mix	Set	1	1					
2639	LOM-912	Impeller	NO.	3	3					
2640	LOM-915	Covering	NO.	4	4					
2641	LOM-916	Machine seal	Set	1	1					
2642	LOM-917	Machine seal	NO.	2	2					
2643	LOM-918	Covering	NO.	6	6					
2644	LOM-919	Bearing	NO.	4	4					
2645	LOM-920	BEARING	NO.	2	2					
2646	LOM-921	Sleeve	NO.	6	6					
2647	LOM-922	Covering gasket	NO.	2	2					
2648	LOM-924	Covering gasket	NO.	4	4					
2649	LOM-925	Covering	NO.	11	11					
2650	LOM-926	Sleeve	NO.	12	12					
2651	LOM-929	Impeller	NO.	3	3					
2652	LOM-930	Covering	NO.	3	3					
2653	LOM-931	Sleeve	NO.	2	2					
2654	LOM-932	Damper	NO.	7	7					
2655	LOM-935	Machine seal	NO.	6	6					
2656	LOM-936	Sleeve	NO.	12	12					
2657	LOM-937	Covering	NO.	12	12					
2658	LOM-940	PLUG	NO.	6	6					
2659	LOM-942	Valve seat	NO.	16	16					
2660	LOM-943	Liner	NO.	4	4					
2661	LOM-945	Gasket	NO.	89	89					
2662	LOM-946	Gasket	NO.	12	12					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2663	LOM-947	Valve seat	NO.	8	8					
2664	LOM-948	Valve seat	NO.	6	6					
2665	LOM-950	PLUG	NO.	3	3					
2666	LOM-951	Liner	NO.	4	4					
2667	LOM-953	Spring	NO.	3	3					
2668	LOM-955	PLUG	NO.	4	4					
2669	LOM-957	Liner	NO.	4	4					
2670	LOM-958	Valve ball	NO.	4	4					
2671	LOM-959	PLUG	NO.	6	6					
2672	LOM-961	Valve seat	NO.	16	16					
2673	LOM-962	Drain valve seat for meatring pump	NO.	20	20					
2674	LOM-963	Liner	NO.	25	25					
2675	LOM-964	Adjust valve	NO.	1	1					
2676	LOM-965	Gasket	NO.	10	10					
2677	LOM-966	Gasket	NO.	14	14					
2678	LOM-967	Connecter	NO.	5	5					
2679	LOM-968	PLUG	NO.	6	6					
2680	LOM-969	Liner	NO.	2	2					
2681	LOM-972	Valve ball	NO.	26	26					
2682	LOM-973	Valve ball	NO.	42	42					
2683	LOM-974	PLUG	NO.	6	6					
2684	LOM-975	Gasket	NO.	6	6					
2685	LOM-976	Liner	NO.	6	6					
2686	LOM-980	Asbastas gasket	Set	20	20					
2687	LOM-981	Asbastas gasket	NO.	8	8					
2688	LOM-982	Machine seal	NO.	2	2					
2689	LOM-983	Squaere gasket	NO.	12	12					
2690	LOM-986	Gasket	NO.	4	4					
2691	LOM-990	Connecting plate	NO.	16	16					
2692	LOM-991	PLUG	NO.	2	2					
2693	LOM-992	Valve seat	NO.	2	2					
2694	LOM-993	Gasket	NO.	18	18					
2695	LOM-997	PLUG	NO.	8	8					
2696	LOM-998	Liner	NO.	2	2					
2697	LOM-1001	Gasket	NO.	25	25					
2698	LOM-1002	Valve seat	NO.	11	11					

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1	2	3	4	5	6	7	8	10	11	12
2699	LOM-1006	Sealing gasket	NO.	22	22					
2700	LOM-1007	Pole plate	NO.	53	53					
2701	LOM-1008	Diaphram plate	NO.	3	3					
2702	LOM-1009	Pressure ring	NO.	7	7					
2703	LOM-1010	Half roung gasket	NO.	30	30					
2704	LOM-1011	Sealing element	NO.	4	4					
2705	LOM-1012	Buterfly washer	NO.	24	24					
2706	LOM-1013	Fan	NO.	1	1					
2707	LOM-1015	Plastic cap	NO.	20	20					
2708	LOM-1017	PH Damper	NO.	17	17					
2709	LOM-1022	Bearing	NO.	2	2					
2710	LOM-1023	Bearing	NO.	1	1					
2711	LOM-1024	Bearing	NO.	2	2					
2712	LOM-1025	Bearing	NO.	1	1					
2713	LOM-1027	O Ring	NO.	4	4					
2714	LOM-1029	Pull tap	NO.	16	16					
2715	LOM-1031	Ring	NO.	40	40					
2716	LOM-1032	U type bolt	NO.	12	12					
2717	LOM-1034	Clamp	NO.	2	2					
2718	LOM-1035	Rubber sealing	NO.	20	20					
2719	LOM-1046	Guiede bearing	NO.	7	7					
2720	LOM-1048	Copper gasket	NO.	7	7					
2721	LOM-1049	Machine seal	NO.	2	2					
2722	LOM-1056	WASHER	NO.	10	10					
2723	LOM-1057	Riner	NO.	16	16					
2724	LOM-1058	Paper plate washer	NO.	4	4					
2725	LOM-1060	O Ring	NO.	2	2					
2726	LOM-1061	Reducer	NO.	2	2					
2727	LOM-1062	Impeller	NO.	4	4					
2728	LOM-1064	Reducer	NO.	2	2					
2729	LOM-1066	Sleeve	NO.	9	9					
2730	LOM-1067	Guiede bearing	NO.	1	1					
2731	LOM-1079	Heater	NO.	22	22					
2732	LOM-1080	Copper tube 8x1000	Set	2	2					
2733	LOM-1087	Connecting rod	NO.	4	4					
2734	LOM-1088	Connecting rod	NO.	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2735	LOM-1089	Connecting pipe	NO.	2	2					
2736	LOM-1090	Trangle bolt	NO.	1	1					
2737	LOM-1094	Piston ring	NO.	6	6					
2738	LOM-1095	Piston ring	NO.	13	13					
2739	LOM-1096	Proclien insuleter ring	NO.	82	82					
2740	LOM-1100	Gasket	NO.	2	2					
2741	LOM-1101	Sealing ring	NO.	1	1					
2742	LOM-1106	Diaphram	NO.	3	3					
2743	LOM-1110	Gear shaft	NO.	2	2					
2744	LOM-1111	Breaking	NO.	3	3					
2745	LOM-1112	MS Pipe	Mtr	192	192					
2746	LOM-1114	Gear box	NO.	1	1					
2747	LOM-1117	Bearing 1610	NO.	29	29					
2748	02-2001-0003	Ccammon Unit Board XBL-1-G	PCS	2	2					
2749	02-2001-0004	Singnal Unit Bord XBL-1G/XG	PCS	4	4					
2750	02-2001-0007	Comman Unit Board XBL-1G	PCS	2	2					
2751	02-2001-0009	Pen (Red) HPSR001 BO 100	PCS	8	8					
2752	02-2001-0011	Nib HPSROO 1B 00001	PCS	240	240					
2753	02-2001-0014	Bearing P46-9	PCS	8	8					
2754	02-2001-0017	Screw Moter P46-35	PCS	8	8					
2755	02-2001-0018	Puse Moter SM30-2001	PCS	2	2					
2756	02-2001-0019	Potentio Meter P46-36	PCS	4	4					
2757	02-2001-0022	Switch Comb	PCS	2	2					
2758	02-2001-0023	Fuse (O.S.A)	PCS	10	10					
2759	02-2001-0025	Chart P44-40/120-177	PCS	141	141					
2760	02-2001-0026	Lubrication Oil	PCS	10	10					
2761	02-2001-0028	Spark Remover	PCS	2	2					
2762	02-2001-0029	FREQUENCY Splitter	PCS	2	2					
2763	02-2001-0030	Diod Comb UPA 544	PCS	2	2					
2764	02-2001-0033	Thermometer of Teimetal L=1250 100oC	PCS	1	1					
2765	02-2001-0038	Pressure Controller D504/7D	PCS	2	2					
2766	02-2001-0039	Pressure Controller D504/7B 0817600	PCS	2	2					
2767	02-2001-0040	Programable Controller EX-40H-220V AC	PCS	2	2					
2768	02-2001-0041	ProGramer EX-40H-LCS	PCS	1	1					
2769	02-2001-0042	Memory Epron	PCS	5	5					
2770	02-2001-0043	Extainsion Unit Ex40H	PCS	3	3					

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1	2	3	4	5	6	7	8	10	11	12
2771	02-2001-0045	Industrial Acid PHG-217 0-14HP 4-20	Set	2	2					
2772	02-2001-0046	Acid Conection Transmitter	Set	2	2					
2773	02-2001-0047	Acid Conection Transmitter	Set	2	2					
2774	02-2001-0048	DC AM Meter	PCS	2	2					
2775	02-2001-0049	D.C A.M Meter Z 2181-00	PCS	1	1					
2776	02-2001-0050	D.C A.M Meter Z2181-00	PCS	2	2					
2777	02-2001-0051	A.C A.M Meter Z282-00	PCS	1	1					
2778	02-2001-0052	A.C Volt Meter Z218-00	PCS	2	2					
2779	02-2001-0053	A.C Volt Meter Z2182 220 000V	PCS	2	2					
2780	02-2001-0054	A.C Volt Meter Z2182 220 000V	PCS	2	2					
2781	02-2001-0056	A.C A.M Meter Z2182-00-0-600A	PCS	2	2					
2782	02-2001-0058	A.C A.M Meter Z2182-00-0-300A	PCS	2	2					
2783	02-2001-0059	A.C A.M Meter Z2182-00-0-150A	PCS	1	1					
2784	02-2001-0063	D.C Volt Meter Z2101-30 1500-0-1500V	PCS	1	1					
2785	02-2001-0064	D.C Volt Meter Z2101-30 1500-0-1500V	PCS	1	1					
2786	02-2001-0065	D.C Volt Meter Z2101-30 0-200V	PCS	2	2					
2787	02-2001-0067	A.C A.M Meter Z2102-30 0-3000A	PCS	2	2					
2788	02-2001-0069	A.C Volt Meter Z2102030 0-200V	PCS	2	2					
2789	02-2001-0070	D.C Volt Meter Z2102-30 0-300V	PCS	2	2					
2790	02-2001-0073	Power Factor Meter Z2107-33 12000/5A	PCS	2	2					
2791	02-2001-0074	Frequency Meter Z2108-30 100V	PCS	1	1					
2792	02-2001-0075	Magnet Starter QC10-4/4 32A	PCS	16	16					
2793	02-2001-0076	Magnet Starter	PCS	1	1					
2794	02-2001-0079	Thermo Element JR16B-20 1-1A	PCS	4	4					
2795	02-2001-0080	Thermo Element JR16B-20/3 1.6A	PCS	4	4					
2796	02-2001-0081	Thermo Element JR16B-20/3 2.4A	PCS	1	1					
2797	02-2001-0083	Thermo Element Jr16-B-20/3 5A	PCS	1	1					
2798	02-2001-0090	Thermo Chemistry O2 Analyzer	set	2	2					
2799	02-2001-0091	Transformer GK-380V/220V	PCS	3	3					
2800	02-2001-0097	Fuse RLI-60/60	PCS	100	100					
2801	02-2001-0098	Fuse Element RLI-60/40	PCS	70	70					
2802	02-2001-0099	Fuse Element RLI-60/30	PCS	50	50					
2803	02-2001-0100	Fuse Element RLI-60/20	PCS	35	35					
2804	02-2001-0101	Fuse Element RLI-100/100	PCS	20	20					
2805	02-2001-0102	Fuse Element RLI-100/80	PCS	40	40					
2806	02-2001-0103	Terminal D-1	PCS	196	196					

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1	2	3	4	5	6	7	8	10	11	12
2807	02-2001-0104	Terminal D-3	PCS	400	400					
2808	02-2001-0106	Terminal D-9	PCS	50	50					
2809	02-2001-0107	Terminal D-10	PCS	200	200					
2810	02-2001-0108	Second Plug	PCS	20	20					
2811	02-2001-0109	Black Shield (A)	PCS	220	220					
2812	02-2001-0110	Black-Shield (B)	PCS	200	200					
2813	02-2001-0111	inte Contact Set (A)	PCS	199	199					
2814	02-2001-0112	Inlet Contact Set (B)	PCS	200	200					
2815	02-2001-0128	Differcial Prossure Transmitter 1151 DP 4E 12 M1 B3D1 0-3000 mm H	PCS	1	1					
2816	02-2001-0130	Differcial Prossure Transmitter 1151 DP 5E 12 M1 B3D1 0-4000 mm H	PCS	2	2					
2817	02-2001-0132	Flow Transmitter 0-2500 mm H2O	PCS	2	2					
2818	02-2001-0133	Flow Transmitter 0-4000 mm H2O	PCS	1	1					
2819	02-2001-0138	Temp Transmitter PT=100 0-300OC	PCS	2	2					
2820	02-2001-0139	Temp Transmitter PT=100 0-70OC	PCS	1	1					
2821	02-2001-0140	Temp Transmitter PT=100 0-300OC	PCS	1	1					
2822	02-2001-0142	Temp Transmitter PT=100 0-400OC	PCS	1	1					
2823	02-2001-0143	Temp Transmitter PT=100 0-600OC 5251-2102 24V	PCS	2	2					
2824	02-2001-0145	Distribution Box 5367-6001/A2	PCS	1	1					
2825	02-2001-0146	Resistance Charger 5357-1211/A2	PCS	2	2					
2826	02-2001-0148	Alaram 5352-2511/A2	PCS	2	2					
2827	02-2001-0149	Alaram 5352-1311/A2	PCS	1	1					
2828	02-2001-0150	Indicator 4135-2000 5-10A	PCS	3	3					
2829	02-2001-0153	Counter 5217-0-100 500 Word Time Rate:1	PCS	1	1					
2830	02-2001-0154	Counter 5217-0-000 200 Word Time Rate:1	PCS	2	2					
2831	02-2001-0155	Accumulator 5361-1000/A2	PCS	1	1					
2832	02-2001-0156	Accumulator 5361-2000/A2	PCS	2	2					
2833	02-2001-0158	Pt;Thermorsistance Pt:100 1=100 WZP2-221	PCS	2	2					
2834	02-2001-0160	Pt;Thermorsistance Pt:100=1=200 WZP2-221	PCS	1	1					
2835	02-2001-0167	Pt;Thermorsistance Pt:100 1=100 WZP2-231	PCS	2	2					
2836	02-2001-0168	Pt;Thermorsistance Pt:100 1=150 WZP2-231	PCS	2	2					
2837	02-2001-0169	Pt;Thermorsistance Pt:100 1=2000	PCS	2	2					
2838	02-2001-0170	Pt;Thermorsistance Pt:100 =L=250	PCS	1	1					
2839	02-2001-0171	Pt;Thermorsistance Pt:100 1=200 WZP-620	PCS	2	2					
2840	02-2001-0172	Pressure Gauge 0-2.5 KG/CM2	PCS	4	4					
2841	02-2001-0181	CU-resistance Cu50 1=2000 Steel	PCS	4	4					
2842	02-2001-0182	CU Resistance CU50 1=150 1cr18 niti	PCS	4	4					

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1	2	3	4	5	6	7	8	10	11	12
2843	02-2001-0183	CU Resistance CU50 1=100 1cr18 niti	PCS	4	4					
2844	02-2001-0184	CU Resistance Indicator 0-4KG/Cm2	PCS	4	4					
2845	02-2001-0185	CU Resistance Indicator 0-6KG/Cm2	PCS	2	2					
2846	02-2001-0186	CU Resistance Indicator 0-10KG/Cm2	PCS	2	2					
2847	02-2001-0188	Gage Pressure Transmitter 0-20KG/Cm2	PCS	2	2					
2848	02-2001-0189	Gage Pressure Transmitter 0-40KG/Cm2	PCS	1	1					
2849	02-2001-0194	Oxygen for 0 ZRO 4-20 MA	set	1	1					
2850	02-2001-0197	Flow Meter	PCS	20	20					
2851	02-2001-0199	Mursure Board	set	4	4					
2852	02-2001-0203	Ignition transformer XD1+20	PCS	2	2					
2853	02-2001-0205	Ink	PCS	49	49					
2854	02-2001-0209	Logic Card 16Dil (VB)	PCS	2	2					
2855	02-2001-0210	Voltage Monitor Card L PS-A	PCS	3	3					
2856	02-2001-0211	Card Extender Card HBS.3139	PCS	4	4					
2857	02-2001-0213	A.C Manual Switch Card 6 Acms	PCS	5	5					
2858	02-2001-0214	Signal Delay Card 6SD	PCS	1	1					
2859	02-2001-0216	Relay Device Card 5R+D HBS 3141	PCS	5	5					
2860	02-2001-0218	Voltage Bus LB HBS 2434 HBS/1249	PCS	4	4					
2861	02-2001-0221	Logic Power Sensor HBS1249 HBS 3249	PCS	1	1					
2862	02-2001-0228	2/4 Flame Indication And Card	PCS	6	6					
2863	02-2001-0229	Power Card	PCS	4	4					
2864	02-2001-0230	Wire Rotator	PCS	2	2					
2865	02-2001-0233	Indication 2F S104	PCS	9	9					
2866	02-2001-0238	Scanner Box	PCS	6	6					
2867	02-2001-0239	Stator Windingf Ground Relay 100 Volts	PCS	1	1					
2868	02-2001-0241	Violtage Balance Relay L 135 100V	PCS	1	1					
2869	02-2001-0242	generator Back up Beactance Realy	PCS	2	2					
2870	02-2001-0245	Differantal Relay CD-11	PCS	2	2					
2871	02-2001-0247	Roter Ground Relay LD-9	PCS	1	1					
2872	02-2001-0248	Reverse Power Relay LNG-1	PCS	1	1					
2873	02-2001-0249	Under Frequence Relay SDP-2	PCS	1	1					
2874	02-2001-0251	Rotor Voltage Relay DY-6	PCS	1	1					
2875	02-2001-0252	Over Current Relay DL21C/6	PCS	3	3					
2876	02-2001-0254	Over Current Relay DL21C/1A	PCS	3	3					
2877	02-2001-0255	Voltage Relay Dy 28C/160 100V	PCS	1	1					
2878	02-2001-0261	Time Delay Relay DS22 220V	PCS	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2879	02-2001-0264	Timer Type BS-11 Time Rating 1~5 Mint 220 VDC	Nos	3	3					
2880	02-2001-0267	Timer Type BS-34 Time Rating 1~5 Mint 220 VDC	Nos	3	3					
2881	02-2001-0271	Auxiliary Relay DZS - 14B	PCS	6	6					
2882	02-2001-0274	Negative Sequence Voltage Relay LF Y-1	PCS	2	2					
2883	02-2001-0283	Auxiliary Relay ZJ 3-3C/80	PCS	5	5					
2884	02-2001-0285	Signal Relay DX-155/0.15 Amp	PCS	2	2					
2885	02-2001-0287	Signal Relay DX-155-0-25 Amp	PCS	1	1					
2886	02-2001-0288	Signal Relay DX-155/220V	PCS	2	2					
2887	02-2001-0289	Resistor ZG11-25/3500 RX2025	PCS	2	2					
2888	02-2001-0290	Resistor ZG 11-30/2200 11-36	PCS	2	2					
2889	02-2001-0291	Resistor ZG 11-30/1000 RXYC-30 K0+5	PCS	2	2					
2890	02-2001-0292	Resistor ZG 11-50/2000 RXYC-30W 891K	PCS	2	2					
2891	02-2001-0294	Control Switch LW 2-1222/F4-8X	PCS	1	1					
2892	02-2001-0295	Control Switch LW 2-111/F4-X	PCS	1	1					
2893	02-2001-0296	Control Switch LW 2-H-1111111/F7-8X	PCS	1	1					
2894	02-2001-0300	Signal Lamp XD10-220	PCS	2	2					
2895	02-2001-0302	Signal Lamp LA18-22	PCS	1	1					
2896	02-2001-0305	Transfer for 24/220 VAC	PCS	4	4					
2897	02-2001-0306	Transfer for 220/380 VAC	PCS	8	8					
2898	02-2001-0309	X 38J 32PJ Connector	PCS	3	3					
2899	02-2001-0311	Current Gage 0-10 AMP 69C9	PCS	1	1					
2900	02-2001-0313	Amp Tool	PCS	1	1					
2901	02-2001-0315	LW 5 Switch	PCS	1	1					
2902	02-2001-0320	Aux: Relay DZ60 DZ 62/400	PCS	5	5					
2903	02-2001-0322	JR 0-20/3-16 Relay	PCS	10	10					
2904	02-2001-0324	Rl 1-60/40A Fuse	PCS	4	4					
2905	02-2001-0327	Giving Module ZDGA-3000	PCS	1	1					
2906	02-2001-0330	Giving Module ZDGS-6020	PCS	1	1					
2907	02-2001-0334	Out Put Module ZDZC-3000	PCS	1	1					
2908	02-2001-0339	Load Control Module ZDTL-6150	PCS	1	1					
2909	02-2001-0340	Monitoring Modle ZDGB-1000	PCS	1	1					
2910	02-2001-0341	Monitaring Card ZDGB-2000	PCS	1	1					
2911	02-2001-0342	Monitaring Modle ZDGB 6000	PCS	1	1					
2912	02-2001-0343	Oscillalion Modle ZDGD 6000	PCS	1	1					
2913	02-2001-0344	Differential Modle ZDTW 6100	PCS	1	1					
2914	02-2001-0345	Differential Modle ZDTW 6200	PCS	1	1					

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1	2	3	4	5	6	7	8	10	11	12
2915	02-2001-0346	Slecting Modle ZDFC-2000	PCS	1	1					
2916	02-2001-0347	Deadzone Modle ZDFC-1000	PCS	1	1					
2917	02-2001-0348	Relay Modle ZDKJ-9020	PCS	1	1					
2918	02-2001-0349	Relay Modle ZDKJ-9000	PCS	1	1					
2919	02-2001-0350	Protaction Modle ZDFB-1000	PCS	2	2					
2920	02-2001-0354	Relay JQX-10 24V DC	PCS	2	2					
2921	02-2001-0355	(+&-) Power Supply Sub-Panel 5DY	PCS	1	1					
2922	02-2001-0356	(+&-) Power Supply Sub-Panel 6DY	PCS	1	1					
2923	02-2001-0358	Over Speed Sub-Penal CN	PCS	1	1					
2924	02-2001-0359	Speed Displacment Sub-Penel 1JB	PCS	1	1					
2925	02-2001-0362	Axil Displacment Disting gushing Sub-Penel	PCS	1	1					
2926	02-2001-0364	Bearing Cover Sub-Penal ZD	PCS	2	2					
2927	02-2001-0366	SHAFT Vibration Sub Panel Z2	PCS	1	1					
2928	02-2001-0369	Small Common Relay JTX-3C AC24	PCS	20	20					
2929	02-2001-0377	Bearing Cover Vibration Sender FFD-74	PCS	1	1					
2930	02-2001-0378	Power 16VAC 16VAC	PCS	2	2					
2931	02-2001-0379	Pressure Regulater 0-2KG/CM2	PCS	2	2					
2932	02-2001-0380	Vaccume Pressure Regulator 0-760 mm HG	PCS	1	1					
2933	02-2001-0386	Signal Lamp XD13-220V	PCS	4	4					
2934	02-2001-0390	Time Relay JS 11-41	PCS	1	1					
2935	02-2001-0392	Hote Relay JR16-20/30	PCS	1	1					
2936	02-2001-0393	Intermidiate Relay DZ62/400	PCS	2	2					
2937	02-2001-0394	Signal Lamp XD6 220V AC	PCS	2	2					
2938	02-2001-0395	Power 220V BK-300 220V/380V	PCS	1	1					
2939	02-2001-0399	Anglo out Board DAS-Ad	PCS	1	1					
2940	02-2001-0400	Digital Input Board Das-D1	PCS	5	5					
2941	02-2001-0401	Digital Output Board Das-D0	PCS	1	1					
2942	02-2001-0402	Pule Input Board DAS-012	PCS	2	2					
2943	02-2001-0403	Bitbus Control Board DAS BC	PCS	1	1					
2944	02-2001-0407	Printer's Paper	PCS	90	90					
2945	02-2001-0409	3M DS DD RH Instant Filr Storage Box	PCS	1	1					
2946	02-2001-0410	Glass Fuse 2A,3A,5S,10A	PCS	263	263					
2947	02-2001-0412	IC 74LS 136	PCS	20	20					
2948	02-2001-0413	IC 74LS 138	PCS	5	5					
2949	02-2001-0414	IC 74LS 139	PCS	10	10					
2950	02-2001-0415	IC 74LS 154	PCS	10	10					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
2951	02-2001-0416	IC 74LS 245	PCS	20	20					
2952	02-2001-0417	IC INTEL 2764	PCS	1	1					
2953	02-2001-0418	IC INTEL 8212	PCS	20	20					
2954	02-2001-0421	Resistance RJ 7-0 .125-a-500kOhm	PCS	25	25					
2955	02-2001-0422	Resistance RJ 7-0 .125-a-25.83 kOhm	PCS	25	25					
2956	02-2001-0423	Resistance RJ 7-0 .125-a-3.92kOhm	PCS	15	15					
2957	02-2001-0424	Resistance RJ 7-0 .125-a-2.4 kOhm	PCS	15	15					
2958	02-2001-0426	Resistance RJ7-0.125-A-2KOHM	PCS	15	15					
2959	02-2001-0427	Resistance RX71-0-25-200OHM	PCS	25	25					
2960	02-2001-0429	Resistance RJ 7-0-125-A-1.32KOHM	PCS	25	25					
2961	02-2001-0430	Resistance RJ 7-0-125-A-10KOHM	PCS	25	25					
2962	02-2001-0431	Resistance RJ 7-0-125-A-20KOHM	PCS	25	25					
2963	02-2001-0432	Resistance RJ 7-0-125-A-30KOHM	PCS	20	20					
2964	02-2001-0433	Resistance RJ 7-0-125-A-15KOHM	PCS	20	20					
2965	02-2001-0435	Resistance RJ-0.5-39KOHM	PCS	20	20					
2966	02-2001-0436	Resistance RJ-0.5-390KOHM	PCS	20	20					
2967	02-2001-0437	Rasistance RJ-0.125-A-8KOHM	PCS	20	20					
2968	02-2001-0438	Resistance RJ7-0.125-A-24OHM	PCS	20	20					
2969	02-2001-0439	Resistance RJ7-0.125-A-125KOHM	PCS	20	20					
2970	02-2001-0440	Potentio Meter WXW1B - 470	PCS	50	50					
2971	02-2001-0441	Potentio Meter WXW1B - 10K	PCS	50	50					
2972	02-2001-0442	Potentio Meter WXW1B - 2.2K	PCS	45	45					
2973	02-2001-0443	Potentio Meter WXW0.5-1-10K	PCS	50	50					
2974	02-2001-0444	Potentio Meter WIW0.5-1-2.2K	PCS	50	50					
2975	02-2001-0445	Potentio Meter WXP3-13-1.5k	PCS	10	10					
2976	02-2001-0446	Potentio Meter WX1B-4.7K	PCS	10	10					
2977	02-2001-0447	Potentio Meter WTH-0.1 W-15M - 2025	PCS	10	10					
2978	02-2001-0448	Potentio Meter WXD3-13-10K	PCS	8	8					
2979	02-2001-0450	Potentio Meter WTH-1W-4.7M 2025	PCS	9	9					
2980	02-2001-0453	Electric Capacity CLX-63v-0-1d	PCS	20	20					
2981	02-2001-0454	Electric Capacity CLX-1-30PI 5%	PCS	25	25					
2982	02-2001-0455	Electric Capacity CQ1-0-22 Uf-II-40V	PCS	24	24					
2983	02-2001-0456	Electric Capacity CLS21-63-8Uf	PCS	47	47					
2984	02-2001-0462	Diode 2AK5	PCS	50	50					
2985	02-2001-0463	Diode 2CP6	PCS	50	50					
2986	02-2001-0465	Light Emetting Diode BT203A	PCS	90	90					

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1	2	3	4	5	6	7	8	10	11	12
2987	02-2001-0467	Transister 3D G12	PCS	10	10					
2988	02-2001-0468	Transister 3C K3	PCS	50	50					
2989	02-2001-0473	Transister 3CD 5C	PCS	10	10					
2990	02-2001-0476	Photo Coupler GD 10 B	PCS	20	20					
2991	02-2001-0477	Controllable SE 3CT 2KB	PCS	9	9					
2992	02-2001-0478	Voltage Stabilizer 2CW1	PCS	20	20					
2993	02-2001-0479	Voltage Stabilizer Tube 2 CW 21	PCS	20	20					
2994	02-2001-0480	Voltage Stabilizer Tube 2 DW 7C	PCS	25	25					
2995	02-2001-0481	Voltage Stabilizer Tube 2 CW 7	PCS	20	20					
2996	02-2001-0482	Voltage Stabilizer Tube 2 CW 57	PCS	20	20					
2997	02-2001-0483	Voltage Stabilizer Tube 2 CW 7C	PCS	20	20					
2998	02-2001-0484	Twi Nand Gate Drive SM 3262 H4 86.5	PCS	75	75					
2999	02-2001-0485	Relarg JRC-10 M RG 4.553-204	PCS	50	50					
3000	02-2001-0488	Colour Inductor 270 UH	PCS	20	20					
3001	02-2001-0489	Switch KBxZWZD	PCS	10	10					
3002	02-2001-0490	Switch KB2 (2W4D)	PCS	20	20					
3003	02-2001-0491	Computing Amplifier F007	PCS	45	45					
3004	02-2001-0497	Glass Fuse BGXP-A-3A	PCS	50	50					
3005	02-2001-0498	Field Effect Transistor 4DJ2H	PCS	20	20					
3006	02-2001-0499	Field Effect Transistor 3DJ6F	PCS	20	20					
3007	02-2001-0500	Programable Signal Crystal Transmitter BT 40	PCS	19	19					
3008	02-2001-0501	Signal Lamp 24V 0.15 A	PCS	50	50					
3009	02-2001-0502	Circle Magnetic Case Mx2000 7X4X4	PCS	10	10					
3010	02-2001-0505	Protection Combination ZDFB-1000	PCS	4	4					
3011	02-2001-0506	Monitor Combination ZDKJ-1000 M2-3	PCS	4	4					
3012	02-2001-0507	Monitor Combination ZDKJ-5010	PCS	4	4					
3013	02-2001-0508	Ralay Combination ZDKJ-9000	PCS	4	4					
3014	02-2001-0509	Ralay Combination ZDKJ-9020	PCS	2	2					
3015	02-2001-0510	Ground Combination ZDGB-1000	PCS	1	1					
3016	02-2001-0511	Ground Combination ZDGB-2000	PCS	3	3					
3017	02-2001-0516	Input Combination ZDZR-1000	PCS	4	4					
3018	02-2001-0518	Constant Valve Combination ZDGA-3000	PCS	4	4					
3019	02-2001-0519	Plus-Mimis Combination ZDJJ-2000	PCS	2	2					
3020	02-2001-0520	Equlizer Combination ZDFE-4000	PCS	2	2					
3021	02-2001-0525	Differential Combination ZDTW-1100	PCS	2	2					
3022	02-2001-0526	Speed Limiter Lomb:ZDFV-1000	PCS	2	2					

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1	2	3	4	5	6	7	8	10	11	12
3023	02-2001-0527	Limiterr Combination ZDFF-1000	PCS	2	2					
3024	02-2001-0528	Dead Space Combination ZDFS-1000	PCS	2	2					
3025	02-2001-0529	Selectro Combination ZDFC-1000	PCS	2	2					
3026	02-2001-0530	Selectro Combination ZDFC-1000	PCS	2	2					
3027	02-2001-0531	Out Put Combination ZDZC-1000	PCS	2	2					
3028	02-2001-0532	Out Put Combination ZDZC-3000	PCS	3	3					
3029	02-2001-0533	Derivation Combination ZDJP-1000	PCS	2	2					
3030	02-2001-0534	Display Controller ZDFH-1000	PCS	2	2					
3031	02-2001-0535	Small Controller ZDFH-2000	PCS	1	1					
3032	02-2001-0536	Power Device ZDFJ-2702	PCS	2	2					
3033	02-2001-0538	Cheek Panel 01151-0309-0001	PCS	2	2					
3034	02-2001-0539	Sensor 01151-0011-0432 0-100mm H2O	PCS	2	2					
3035	02-2001-0540	O Model Circle 01151-0034-0002	PCS	2	2					
3036	02-2001-0541	O Model Circle 01151-0035-0002	PCS	2	2					
3037	02-2001-0542	Ampl: 1SQ Combination 01151-0378-0001	PCS	2	2					
3038	02-2001-0543	Cheek Panel 01151-0377-0001	PCS	2	2					
3039	02-2001-0544	Sensor 01151-0377-0042-0-2500 mm H2O	PCS	2	2					
3040	02-2001-0545	Sensor 01151-0011-0052-0-4000 mm H2O	PCS	2	2					
3041	02-2001-0546	Sencor 01151-0011-0052-0-600mm H2O	PCS	2	2					
3042	02-2001-0547	Sensor 01151-0011-0042-0-1600mm H2O	PCS	2	2					
3043	02-2001-0548	Control Ports 01151-0029-0001	PCS	2	2					
3044	02-2001-0549	Amplifier Panel 01151-0137-0001	PCS	2	2					
3045	02-2001-0550	Sensor 01151-0011-0032	PCS	2	2					
3046	02-2001-0551	Sensor 01151-0011-0042	PCS	2	2					
3047	02-2001-0552	Sensor 01151-0011-0052	PCS	2	2					
3048	02-2001-0554	O Model Circle 01151-0033-0002	PCS	10	10					
3049	02-2001-0555	O Model Circle 01151-0034-0001	PCS	5	5					
3050	02-2001-0556	O Model Circle 01151-0035-0001	PCS	10	10					
3051	02-2001-0560	Check Panel 01151-0139-0001	PCS	1	1					
3052	02-2001-0561	Sensor 01151-0041-0172	PCS	2	2					
3053	02-2001-0562	Sensor 01151-0041-0182	PCS	2	2					
3054	02-2001-0563	Sensor 01151-0112-0002	PCS	2	2					
3055	02-2001-0564	O Model Circle 01151-0034-0005	PCS	5	5					
3056	02-2001-0565	O Model Circle 01151-0034-0006	PCS	5	5					
3057	02-2001-0566	Requlator 01151-0029-0002	PCS	3	3					
3058	02-2001-0567	Potentio Meter G9018 GW	PCS	4	4					

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1	2	3	4	5	6	7	8	10	11	12
3059	02-2001-0568	Potentio Meter G9020 RW	PCS	4	4					
3060	02-2001-0569	Amplifier Unit Combination E9603 XW	PCS	2	2					
3061	02-2001-0570	Span Combination E9603 YG	PCS	2	2					
3062	02-2001-0571	Power Combination E9602 YH	PCS	2	2					
3063	02-2001-0572	Distribution Unit E9607 Ys	PCS	4	4					
3064	02-2001-0573	Out put Unit E 9607 Y	PCS	3	3					
3065	02-2001-0574	Power Combination E 9602 H	PCS	4	4					
3066	02-2001-0576	Meter Head E 9609 GL	PCS	4	4					
3067	02-2001-0577	Two-Digit Three Way Soleniod Valve YDF-23 1/8	PCS	12	12					
3068	02-2001-0578	Two-Digit Three Way Soleniod Change Valve YDF-23 1/8	PCS	4	4					
3069	02-2001-0579	Coil YDF-23 1/8 YDF2-23-23- 1/8	PCS	16	16					
3070	02-2001-0581	Solenoid Valve QY23D-6	PCS	2	2					
3071	02-2001-0584	End Joint	PCS	1	1					
3072	02-2001-0588	Thermo Couple WRKK2-321 E DIAX3000	PCS	4	4					
3073	02-2001-0589	Thermo Couple WRKK2-321	PCS	4	4					
3074	02-2001-0591	Thermo Couple WRKK2-321	PCS	4	4					
3075	02-2001-0592	Thermo Couple WRKK2-321	PCS	2	2					
3076	02-2001-0593	Thermo Couple WRkk2-321- K.Q 6X250	PCS	4	4					
3077	02-2001-0594	Thermo Couple WRN-625 KL-100	PCS	2	2					
3078	02-2001-0595	Thermo Couple WRN 10-321 K Dia 6x300	PCS	2	2					
3079	02-2001-0597	Thermo Couple WRNK-321 K.Dia 6x100	PCS	6	6					
3080	02-2001-0598	Thermo Meter of TWI Metal WSS-401 L=1500 0-100oC	PCS	2	2					
3081	02-2001-0599	Thermo Meter of TWI Metal WSS-401 L=1500 0-100oC	PCS	2	2					
3082	02-2001-0603	Pressure Indicator XFZ-102 PL-100 0-50OC	Set	2	2					
3083	02-2001-0604	Indicator of Mouting XEZ-105 4-20 MA	Set	3	3					
3084	02-2001-0605	Indicator of Mouting XFT-105 4-20 MA	Set	2	2					
3085	02-2001-0606	Pressure Indicator y-150ZT 0-4 Kgs/Cm2	Set	2	2					
3086	02-2001-0607	Pressure Indicator y Y-150ZT 0-6 Kg/Cm2	Set	2	2					
3087	02-2001-0613	Pressure Indicator D-500 17D 080 4100	Set	1	1					
3088	02-2001-0622	Pressure Controller D 511/7D 0811 511	Set	2	2					
3089	02-2001-0624	Pressure Controller D 511/7D 0811 911	Set	1	1					
3090	02-2001-0625	Diff Press Controller D520/7DD 081 9100	PCS	2	2					
3091	02-2001-0627	Diff Press Controller D520/11DD 082 3200	PCS	2	2					
3092	02-2001-0628	Diff Press Controller D520/11DD 082 3300	PCS	2	2					
3093	02-2001-0629	Diff Press Controller D530/7DD 081 7111	PCS	4	4					
3094	02-2001-0630	Explosion Pressure Controller D511/7D 085 1481	PCS	2	2					

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1	2	3	4	5	6	7	8	10	11	12
3095	02-2001-0632	A.M Meter 99C-22-A 0-100%	PCS	2	2					
3096	02-2001-0633	Watt Hour Meter D521 0.5 12000 15750/100V	PCS	2	2					
3097	02-2001-0634	Watt Hour Meter D58 4000/5A 6600/100V	PCS	2	2					
3098	02-2001-0635	Active Watt Hour Meter Transmeter CTS-IDI 0-10 MA 220V	PCS	2	2					
3099	02-2001-0636	A.C Current Transmiter CTB 101-5A 5014Z 0-10 MA	PCS	2	2					
3100	02-2001-0637	Active Power Transformer CTC 123 5A 100V 50HZ 0-10MA	PCS	2	2					
3101	02-2001-0638	Watt Loss Power Transmetter CTD 1235 A 100V 50Hz 0-10 MA	PCS	2	2					
3102	02-2001-0639	Frequency Transmitter CTE 03 100V 45-55 Hz 0-10 MA	PCS	2	2					
3103	02-2001-0640	Universal Switch LWXZ-F4-X 8X	PCS	2	2					
3104	02-2001-0642	Universal Switch LWXZ-2.2 2.2/F4-8X	PCS	2	2					
3105	02-2001-0643	Universal Switch LWXZ-22.3/F4-8X	PCS	2	2					
3106	02-2001-0644	Universal Switch LWXZ-1.1 2.2/F4-8X	PCS	2	2					
3107	02-2001-0648	Universal Switch LWXZ-/a-/a-/a2-2-2-2/F4-8X	PCS	2	2					
3108	02-2001-0649	Universal Switch LWXZ-/a./a./a./a./a./a./F4-8X	PCS	2	2					
3109	02-2001-0650	Universal Switch LWXZ-/a/-2.5 6a/F4	PCS	1	1					
3110	02-2001-0651	Universal Switch LWXZ-w-2-6a/F8	PCS	1	1					
3111	02-2001-0652	Universal Switch LWXZ-w-2-2-c-c 6a-6a/F8	PCS	2	2					
3112	02-2001-0653	Universal Switch LWXZ-w-/a 2-2/F8X	PCS	2	2					
3113	02-2001-0655	Universal Switch LWXZ-W-9a-2.2/F8-8X	PCS	1	1					
3114	02-2001-0656	Universal Switch LWXZ-H-33J-33J-33J 33J.33P/F4-3X	PCS	2	2					
3115	02-2001-0657	Universal Switch LWZ-Z/a-4.6a.40 20.20.4/F8	PCS	2	2					
3116	02-2001-0658	Universal Switch LWZ-H-1-1-1-1-1-1-1/F7-X	PCS	2	2					
3117	02-2001-0660	Diac 3K 5K-2-3 1A	PCS	2	2					
3118	02-2001-0662	Diac 5K.2.3-4A	PCS	1	1					
3119	02-2001-0671	Relay DZ5/220 220V Dc	PCS	3	3					
3120	02-2001-0672	Relay DZ51/400 220V De	PCS	1	1					
3121	02-2001-0677	Relay DZS-12B 220V DC	PCS	2	2					
3122	02-2001-0679	Relay JS 14A-60" 220 Vac	PCS	2	2					
3123	02-2001-0680	Relay JS 14A-10" 220 Vac	PCS	1	1					
3124	02-2001-0683	Push Button green LA15-5A	Nos	4	4					
3125	02-2001-0684	Push Button Rad LA18	Nos	5	5					
3126	02-2001-0687	Signal Lamp 250xD1-12 12V 1.2W (White)	PCS	15	15					
3127	02-2001-0690	Signal Lamp 50XDX1-24V (Red)	PCS	3	3					
3128	02-2001-0691	Signal Lamp DH 10-1 24V (White)	PCS	6	6					
3129	02-2001-0692	Time Relay Js/11-11	PCS	2	2					
3130	02-2001-0693	Thyristor Madule MTT 40A 08N	PCS	1	1					

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3131	02-2001-0694	Diode Bys 26/45	PCS	1	1					
3132	02-2001-0695	Thysistor Module (MTT 95 A 16N)	PCS	1	1					
3133	02-2001-0696	Measring Device for Bearing Temprature 00-301-317	PCS	3	3					
3134	02-2001-0697	Relay Valve 69.302.008	PCS	1	1					
3135	02-2001-0702	Diaphram for Pilot Valve	PCS	50	50					
3136	02-2001-0704	Voltage Changer for Secondary Air Damper Input-4-20 MB and Out 02	PCS	2	2					
3137	02-2001-0705	Limit Switch LX19-00	PCS	6	6					
3138	02-2001-0708	Temprature Transmitter Teu 704/H3B	PCS	1	1					
3139	03-2002-0004	Sealing Bush 02A 0051	PCS	12	12					
3140	03-2002-0005	Sealing Bush 05DO211	PCS	6	6					
3141	03-2002-0007	Gasket 04D 4454	PCS	3	3					
3142	03-2002-0008	Insulation Gasket 05D2448	PCS	4	4					
3143	03-2002-0011	Carlon Brush 8EA 578036	PCS	7	7					
3144	03-2002-0018	Quick Scr KK-200A/1000V	PCS	4	4					
3145	03-2002-0019	Scr Kp-5A/600V	PCS	4	4					
3146	03-2002-0020	Silicon Zp-500A/1800V	PCS	3	3					
3147	03-2002-0021	Silicon Zp-200A/1000V	PCS	7	7					
3148	03-2002-0022	Triode 3AD6C	PCS	20	20					
3149	03-2002-0023	Triode 3Ax55C	PCS	20	20					
3150	03-2002-0024	Triode 3Ax31	PCS	24	24					
3151	03-2002-0025	Triode 3AD 18D	PCS	8	8					
3152	03-2002-0033	Pressure Sensitive Resistor Mg31	PCS	3	3					
3153	03-2002-0034	Automatic Air Circuit Breaker DW 10-400/2	PCS	1	1					
3154	03-2002-0035	Micro-Switch KWC	PCS	8	8					
3155	03-2002-0036	Pc Board Socket CZJX-Y-44	PCS	2	2					
3156	03-2002-0037	Socket At-20-J	PCS	2	2					
3157	03-2002-0038	Time Realy BS-14A 220V 0.5-1.55	PCS	1	1					
3158	03-2002-0042	Voltage Relay Dy-23C 220V	PCS	1	1					
3159	03-2002-0043	Voltage Relay Dy-23C/60 220v	PCS	1	1					
3160	03-2002-0045	Signal Relay DWm-2A	PCS	1	1					
3161	03-2002-0046	Quick Response Fuse Rs3-250A/500Y	PCS	12	12					
3162	03-2002-0047	Fuse RLT - 15/6	PCS	10	10					
3163	03-2002-0050	Time Relay YZJ1-2-220V	PCS	1	1					
3164	03-2002-0051	Magnatic Stater Czo-40CA	PCS	1	1					
3165	03-2002-0053	Breaker HZ-10-10/3	PCS	1	1					
3166	03-2002-0055	Resistance Zx1-1/7	PCS	1	1					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3167	03-2002-0056	Magnatic Amplifier CF-1	PCS	1	1					
3168	03-2002-0057	Magnatic Amplifier CF-2	PCS	1	1					
3169	03-2002-0058	Roter Discharge 6004	PCS	2	2					
3170	03-2002-0061	Procelain Tube Resistore RXYC-10W-30~	PCS	1	1					
3171	03-2002-0062	Procelain Tube Resistors RXYC-25W-30~	PCS	2	2					
3172	03-2002-0063	Porcelain Tube Resistors RXYC-50W-100~	PCS	1	1					
3173	03-2002-0064	Procelain Tube RXYC-50W-100	PCS	1	1					
3174	03-2002-0065	Wound Pat WX3-11-68~	PCS	1	1					
3175	03-2002-0066	Wound Pat Wx3-11-750~	PCS	1	1					
3176	03-2002-0068	Wound Pat Wx3-11-47K	PCS	2	2					
3177	03-2002-0069	Wound Pat Wx3-11-10K	PCS	2	2					
3178	03-2002-0070	Wound Pot	PCS	2	2					
3179	03-2002-0074	Quick response Rsf-800V/1400A Fuses	PCS	18	18					
3180	03-2002-0079	Auxciliary Relay Dz-51/22-220V	PCS	1	1					
3181	03-2002-0080	Auxciliary Relay Dz-51/0.4-220V	PCS	1	1					
3182	03-2002-0081	Signal Lamp XPZ-220V	PCS	5	5					
3183	03-2002-0084	Core Helical Fuses Rl-60-40A	PCS	5	5					
3184	03-2002-0086	Thermal Relary Jro-20/3D	PCS	1	1					
3185	03-2002-0087	Silicon Element ZP 1000-32P	PCS	8	8					
3186	03-2002-0088	Thermal Switch LX19-001	PCS	1	1					
3187	03-2002-0089	DE-Excitation Breaker(MK Breaker) DM2-2500/60 Current 2500A	Nos	1	1					
3188	03-2002-0090	Auto Air Circuit Dm10-2500/3	PCS	1	1					
3189	03-2002-0091	De-Excitation Static Contact	PCS	3	3					
3190	03-2002-0092	Solenoid Valve DFx22-17	PCS	1	1					
3191	03-2002-0093	Solenoid Valve Zclf-25A	PCS	1	1					
3192	03-2002-0094	Stainless Steel Float	PCS	2	2					
3193	03-2002-0095	Liquid Level Relay UQK-02	PCS	1	1					
3194	03-2002-0098	Safety Valve A27W-10	PCS	1	1					
3195	03-2002-0099	Signal Lamp XD14 Green,Red	PCS	1	1					
3196	03-2002-0100	Oil Pump Shaft 3G42X4A Seal Gasket	PCS	2	2					
3197	03-2002-0103	Pressure Regulation Valve	PCS	1	1					
3198	03-2002-0104	Solen Oil Valve DFX12-17	PCS	1	1					
3199	03-2002-0105	Signal Lamp XD3 Red,Grean	PCS	6	6					
3200	03-2002-0106	Rotor Flow Meter	PCS	1	1					
3201	03-2002-0108	Hydrogen Reducer	PCS	3	3					
3202	03-2002-0110	Vane of Water Pump	PCS	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3203	03-2002-0113	Tube of Cooling Water (Plug)(Tube Plug For condencer)	PCS	16,938	16,938					
3204	03-2002-0118	Roller Bearing	PCS	1	1					
3205	03-2002-0120	Bearing Bush	PCS	1	1					
3206	03-2002-0128	Bearing 6316	PCS	1	1					
3207	03-2002-0130	Bottem Plance Lead Bearing	PCS	1	1					
3208	03-2002-0132	Sprial Wound Gasket 0/60/Q40x4.5	PCS	5	5					
3209	03-2002-0133	Loack Washer B35.11	PCS	3	3					
3210	03-2002-0134	Loack Washer B32.05	PCS	4	4					
3211	03-2002-0135	Graf Oil Seal	PCS	16	16					
3212	03-2002-0137	Pressure Otifice	PCS	3	3					
3213	03-2002-0139	Oil Seal Hg$-692 67	PCS	3	3					
3214	03-2002-0141	Oil Seal PD15x30x10	PCS	2	2					
3215	03-2002-0142	O-Shaped Sealing Washer GB 1235 12x1.9	PCS	2	2					
3216	03-2002-0143	Clutea Outer Race D84.10-31-01	PCS	1	1					
3217	03-2002-0144	Clutch Inner Race D84.10-31-2	PCS	1	1					
3218	03-2002-0145	Spring Coil D84.10-31	PCS	2	2					
3219	03-2002-0146	Shim / Washer D84.10-31-5	PCS	2	2					
3220	03-2002-0147	Sprag D84-10-31-05	PCS	8	8					
3221	03-2002-0148	Roller D84.10-31-06	PCS	8	8					
3222	03-2002-0149	Oil Seal PD35x56x12	PCS	2	2					
3223	03-2002-0151	Packing	PCS	3	3					
3224	03-2002-0152	Washer graphte	PCS	2	2					
3225	03-2002-0154	Push Button	PCS	2	2					
3226	03-2002-0155	Limit Switch	PCS	2	2					
3227	03-2002-0156	Plug P32 KJ4SA	PCS	1	1					
3228	03-2002-0158	Bearing 18502	PCS	1	1					
3229	03-2002-0160	Twivel tube	PCS	1	1					
3230	03-2002-0162	Push Plate D31-48	PCS	1	1					
3231	03-2002-0163	Cam 72121-12-11	PCS	1	1					
3232	03-2002-0164	Plane Sliding Bearing 383.85-0	PCS	2	2					
3233	03-2002-0166	Lock Nut Retractable Blower	PCS	1	1					
3234	03-2002-0167	Spiral Wound Gasket Q100/Q70x4.5	PCS	2	2					
3235	03-2002-0168	Clutch Outer Race D84-01-19-1A	PCS	2	2					
3236	03-2002-0169	CirClip GB 893	PCS	2	2					
3237	03-2002-0170	Shim / Washer	PCS	2	2					
3238	03-2002-0171	Spring Coil D84-01-19-4A	PCS	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3239	03-2002-0172	Clutch Inner Race D84.01-19-5A	PCS	2	2					
3240	03-2002-0173	Roller D-84-01-19-6A	PCS	10	10					
3241	03-2002-0174	Spray D84-01-19-7A	PCS	40	40					
3242	03-2002-0175	Braring 46205	PCS	1	1					
3243	03-2002-0176	Oil Seal PD 25x40x10	PCS	1	1					
3244	03-2002-0181	Bearing 119 GB276	PCS	1	1					
3245	03-2002-0182	Oil Seal D83.70.0	PCS	1	1					
3246	03-2002-0183	Oil Seal D83-71.0	PCS	1	1					
3247	03-2002-0185	Bearing 3056204 GB296	PCS	1	1					
3248	03-2002-0186	Bearing 60104 GB278	PCS	1	1					
3249	03-2002-0187	Bearing 60209 GB278	PCS	2	2					
3250	03-2002-0188	Bearing 60106 GB278	PCS	4	4					
3251	03-2002-0189	Bearing 60209 GB278	PCS	2	2					
3252	03-2002-0190	bushing B86-25	PCS	2	2					
3253	03-2002-0191	Nozzle Head Assy	PCS	1	1					
3254	03-2002-0192	Spiral Wound Gasket Q76/Q100x4.5	PCS	2	2					
3255	03-2002-0193	Spiral Wound Gasket Q60/Q76x4.5	PCS	1	1					
3256	03-2002-0194	Gesket D80-04	PCS	10	10					
3257	03-2002-0195	Bushing B35-03	PCS	3	3					
3258	03-2002-0196	Support Roller	PCS	1	1					
3259	03-2002-0198	Bearing (For Feed draft Fan Moter)	PCS	1	1					
3260	03-2002-0202	Bearing (For Fire Fighting Water Pump Moter)	PCS	1	1					
3261	03-2002-0203	Bearing (Steem Air Heater Drain Pump Moter)	PCS	1	1					
3262	03-2002-0204	Bearing 51103 GB301	PCS	2	2					
3263	03-2002-0206	Bearing Rna 4904 2rs GB 290	PCS	2	2					
3264	03-2002-0207	Oil Sealed Felt Washer(JH) (FJ 145-63)	PCS	10	10					
3265	03-2002-0208	Oil Sealed Felt Washer(JH) (FJ 145-63	PCS	15	15					
3266	03-2002-0209	Oil Sealed Felt Washer(JH) (FJ 145-63	PCS	8	8					
3267	03-2002-0210	Oil Sealed Felt Washer(JH) (FJ 145-63	PCS	8	8					
3268	03-2002-0211	Oil Sealed Felt Washer(JH) (FJ 145-63	PCS	8	8					
3269	03-2002-0212	Oil Proof Asbestos Rubber (GB 539-65) (JH)	PCS	8	8					
3270	03-2002-0213	Oil Proof Asbestos Rubber (GB 539-65) (JH)	PCS	8	8					
3271	03-2002-0214	Fram Rubber Oil Seal Jh Hg4-692-67	PCS	6	6					
3272	03-2002-0215	One Grade Transmition gear In Deeliator (JH)	PCS	2	2					
3273	03-2002-0216	Housing Clamped Coupling HG5-213-65	PCS	3	3					
3274	03-2002-0217	Catch Wavher Coupling Nut (JY) Yo-06-28	PCS	6	6					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3275	03-2002-0218	Lock Washer (JC) Yo-06-32	PCS	12	12					
3276	03-2002-0219	Under washer working Part (JH) (JH-600)	PCS	3	3					
3277	03-2002-0220	Under washer working Part (JH) (JL-06)	PCS	6	6					
3278	03-2002-0221	Strainer Type 6801 4 G 7442-87	PCS	840	840					
3279	03-2002-0226	Nozzle UG 7237-79	PCS	20	20					
3280	03-2002-0228	Bearing 46118	PCS	15	15					
3281	03-2002-0229	Bearing 118 GB 276-64	PCS	12	12					
3282	03-2002-0233	pin With Corshead Jz-0015	PCS	6	6					
3283	03-2002-0235	Bearing 46103 Gb292-94	PCS	24	24					
3284	03-2002-0236	Oil Seal PD 130x155x100	PCS	6	6					
3285	03-2002-0237	Adjustable Screw JZ-1001	PCS	6	6					
3286	03-2002-0238	Adjustable Nut JS 6009	PCS	6	6					
3287	03-2002-0239	Bearing 103 GB 276-64	PCS	20	20					
3288	03-2002-0240	Fitter 12.05x12-05 (Paking)	PCS	22	22					
3289	03-2002-0241	Fitter 10x10 (Paking)	PCS	30	30					
3290	03-2002-0242	Solenaid Valve	PCS	2	2					
3291	03-2002-0243	Pressure Relif Valve (For Air Filter Ation)	PCS	1	1					
3292	03-2002-0244	safty Valve	PCS	1	1					
3293	03-2002-0246	Pneu matic Membranee Valve	PCS	2	2					
3294	03-2002-0247	Check Valve	PCS	1	1					
3295	03-2002-0249	Bearing 7205	PCS	12	12					
3296	03-2002-0250	Bearing 51117	PCS	8	8					
3297	03-2002-0252	Bearing 8104	PCS	19	19					
3298	03-2002-0253	Bearing 102	PCS	21	21					
3299	03-2002-0254	Oil Seal Ring JZ-5012	PCS	24	24					
3300	03-2002-0256	Filter J5-16-1	PCS	50	50					
3301	03-2002-0258	Washer Gasket J15-16	PCS	28	28					
3302	03-2002-0260	Fuse 2Ax5 mm	PCS	2	2					
3303	03-2002-0261	Amber Warming Lamp Bulb 24V	PCS	2	2					
3304	03-2002-0262	Fuse 500 Ma Glass Certridge Type	PCS	2	2					
3305	03-2002-0264	Red Neon Lamp	PCS	4	4					
3306	03-2002-0265	Orange Lamp Bulb 24v AC	PCS	2	2					
3307	03-2002-0266	Fusibe Plug	PCS	2	2					
3308	03-2002-0267	Lamp Bulb 6.3V	PCS	10	10					
3309	03-2002-0271	"O" Type Rubber Sealing 20x2-4	PCS	10	10					
3310	03-2002-0272	"O" Type Rubber Sealing 35x3-1	PCS	38	38					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3311	03-2002-0273	"O" Type Rubber Sealing 45x3-1	PCS	47	47					
3312	03-2002-0275	Glass Tube	PCS	3	3					
3313	03-2002-0276	Buttom LA-2	PCS	4	4					
3314	03-2002-0277	Signal Lamp XD-2/220V	PCS	4	4					
3315	03-2002-0278	Antermediate Relay	PCS	1	1					
3316	03-2002-0279	Electric Float Level	PCS	1	1					
3317	03-2002-0280	Electric Float Level Transmiter 4T2-51 2955mm	Set	2	2					
3318	03-2002-0283	Main Oil Pump	Set	1	1					
3319	03-2002-0287	Oil Seal (Left)	Set	1	1					
3320	03-2002-0288	Oil Seal (Right)	Set	2	2					
3321	03-2002-0292	Reinforced Rubber Seal (85X11X) HG4-962-67	PCS	42	42					
3322	03-2002-0293	Sealing Ring D Type	PCS	29	29					
3323	03-2002-0294	Sealing Ring "O" Type	PCS	14	14					
3324	03-2002-0295	Impeller D36x28-203	PCS	2	2					
3325	03-2002-0297	Main Shaft	PCS	2	2					
3326	03-2002-0298	Driven Shaft D 36x28-202	PCS	2	2					
3327	03-2002-0300	Drive Shaft D36x35-202	PCS	2	2					
3328	03-2002-0301	Gear HLT 203A-1	PCS	2	2					
3329	03-2002-0302	Gear HLT 203A-3	PCS	2	2					
3330	03-2002-0304	Shaft Bushing	PCS	6	6					
3331	03-2002-0305	Bearing 22216	PCS	6	6					
3332	03-2002-0306	Bearing 2314	PCS	6	6					
3333	03-2002-0307	Locking Washer 76 GB858-76	PCS	10	10					
3334	03-2002-0308	Locking Washer 68	PCS	19	19					
3335	03-2002-0310	Impeller WT 40-11No.11-2	PCS	1	1					
3336	03-2002-0311	Impeller WT35-11No-7.1	PCS	1	1					
3337	03-2002-0312	Gravity Exhaust Fan WT40-11No.14	PCS	12	12					
3338	03-2002-0313	Gravity Exhaust Fan WT35-11No.7.1	PCS	4	4					
3339	03-2002-0314	Nylon Bearing Bush WT40-11No-14	PCS	90	90					
3340	03-2002-0315	Nylon Bearing Bush WT40-11No-11.2	PCS	36	36					
3341	03-2002-0316	Nylon Bearing Bush WT40-11No-7-1	PCS	8	8					
3342	03-2002-0318	Oil Seal	PCS	4	4					
3343	03-2002-0319	Spherical Roller Bearing 3632 GB286-64	PCS	1	1					
3344	03-2002-0320	Self Aligning Ball Bearing 1610	PCS	10	10					
3345	03-2002-0322	Oil Seal 111.28x1-12	PCS	2	2					
3346	03-2002-0323	Oil Seal 1144-28-3	PCS	4	4					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3347	03-2002-0325	Spherical Roller Bearing 3624 GB286-64	PCS	4	4					
3348	03-2002-0329	Spiral Gear 3002	PCS	2	2					
3349	03-2002-0335	Bearing 7528	PCS	5	5					
3350	03-2002-0337	Bearing 7620	PCS	3	3					
3351	03-2002-0338	Bearing 7616	PCS	1	1					
3352	03-2002-0341	Gear Coupling	PCS	2	2					
3353	03-2002-0342	Driving Wheel Unit	PCS	2	2					
3354	03-2002-0344	Contact of Inter Lock	PCS	2	2					
3355	03-2002-0345	Contact of Inter Lock	PCS	2	2					
3356	03-2002-0346	Contact of Inter Lock	PCS	2	2					
3357	03-2002-0348	Electric Inter Lock	PCS	2	2					
3358	03-2002-0349	Emergency Switch	PCS	2	2					
3359	03-2002-0350	Button	PCS	2	2					
3360	03-2002-0351	Foot Switch 380V6Amp	PCS	2	2					
3361	03-2002-0359	Knife-Blade Switch	PCS	2	2					
3362	03-2002-0360	Loss-of-Phase Over-Load Realy	PCS	2	2					
3363	03-2002-0361	Matual Inductor DDG-1	PCS	2	2					
3364	03-2002-0362	Fuse R4-15/15	PCS	2	2					
3365	03-2002-0364	Over Current Realy JL-5.70	PCS	1	1					
3366	03-2002-0365	Over Current Realy JL-5.60	PCS	1	1					
3367	03-2002-0366	Limit Switch Lx-10-11	PCS	1	1					
3368	03-2002-0367	Limit Switch Lx-7-1	PCS	2	2					
3369	03-2002-0368	Limit Switch Lx-10-11	PCS	2	2					
3370	03-2002-0369	Buzzer Dx-4	PCS	2	2					
3371	03-2002-0370	Electric Brush Holder	PCS	2	2					
3372	03-2002-0371	Electric Brush Holder	PCS	2	2					
3373	03-2002-0372	Electric Brush Holder	PCS	2	2					
3374	03-2002-0373	Down Shop Leads Contact	PCS	2	2					
3375	03-2002-0374	Contact of Inter Lock Z5A	PCS	3	3					
3376	03-2002-0375	Signal Lamp XD 8380	PCS	3	3					
3377	03-2002-0376	Electric Enter Lock	PCS	3	3					
3378	03-2002-0377	Emergency Switch	PCS	3	3					
3379	03-2002-0378	Button	PCS	3	3					
3380	03-2002-0379	Foot Switch	PCS	3	3					
3381	03-2002-0380	ConTactor	PCS	2	2					
3382	03-2002-0382	Air Switch A11/(2)-(iii)-9 37-C M6(Circuit Breaker 250 A 3/P)	PCS	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3383	03-2002-0384	Over Current Relay A11/(2)-(iii)-11	PCS	3	3					
3384	03-2002-0385	Over Current Relay A11/(2)-(iii)-12	PCS	3	3					
3385	03-2002-0386	Over Current Relay A11/(2)-(iii)-13	PCS	3	3					
3386	03-2002-0388	Limit Switch A11/(2)-(iii)-15	PCS	3	3					
3387	03-2002-0389	Limit Switch A11/(2)-(iii)-16	PCS	3	3					
3388	03-2002-0390	Buzzer	PCS	3	3					
3389	03-2002-0391	Electric Brush Holder A11/(2)-(iii)-18	PCS	3	3					
3390	03-2002-0392	Electric Brush Holder A11/(2)-(iii)-19	PCS	3	3					
3391	03-2002-0393	Down Shop Leads Contacts	PCS	3	3					
3392	03-2002-0395	Limit Switch A11/(3)-(iii)-1	PCS	2	2					
3393	03-2002-0396	Limit Switch Lx10-11	PCS	1	1					
3394	03-2002-0397	Limit Switch A11/(3)-(iii)-3	PCS	1	1					
3395	03-2002-0398	Electric Brush E Holder	PCS	1	1					
3396	03-2002-0399	Down Shop Leads Contact	PCS	1	1					
3397	03-2002-0402	Button M2 LA2-81	PCS	1	1					
3398	03-2002-0404	Fuse 60A 500V	PCS	3	3					
3399	03-2002-0405	Fuse 15A 500V	PCS	2	2					
3400	03-2002-0406	Fuse 500V 2A	PCS	1	1					
3401	03-2002-0409	Joint Pipe Dg80	PCS	2	2					
3402	03-2002-0410	Float Valve	PCS	2	2					
3403	03-2002-0411	Washer of Float Valve	PCS	10	10					
3404	03-2002-0412	Normal Bend Dg 25 90O	PCS	2	2					
3405	03-2002-0413	Driver Wheel Unit	PCS	2	2					
3406	03-2002-0414	Gear Shaft A11/(1)-(I)-12	PCS	2	2					
3407	03-2002-0415	Gear Large A11/(1)-(I)-13	PCS	2	2					
3408	03-2002-0416	Gear Small A11/(1)-(I)-15	PCS	2	2					
3409	03-2002-0417	Gear Shaft A11/(1)-(I)-17	PCS	2	2					
3410	03-2002-0418	Gear Wheel A11/(1)-(I)-18	PCS	2	2					
3411	03-2002-0419	Gear Wheel A11/(1)-(I)-19	PCS	2	2					
3412	03-2002-0420	Sleave (Pulley)	PCS	2	2					
3413	03-2002-0421	Driver Wheel Unit	PCS	2	2					
3414	03-2002-0422	Gear Coupling	PCS	2	2					
3415	03-2002-0423	Gear Shaft A11/(1)-(ii)-8	PCS	2	2					
3416	03-2002-0424	Gear Wheel A11/(1)-(ii)-10	PCS	2	2					
3417	03-2002-0425	Gear Coupling A11/02-(i)-5	PCS	3	3					
3418	03-2002-0426	Gear Coupling A11/02-(i)-6	PCS	3	3					

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3419	03-2002-0427	Gear Small A11/02-(i)-10	PCS	3	3					
3420	03-2002-0428	Gear M/Small A11/02-(i)-12	PCS	3	3					
3421	03-2002-0429	Gear Shaft A11/02-(i)-13	PCS	3	3					
3422	03-2002-0430	Gear Wheel A11/02-(i)-14	PCS	3	3					
3423	03-2002-0431	Gear Shaft A11/(02)-(i)-5	PCS	3	3					
3424	03-2002-0432	Sleave Pully A11/(02)-(i)-17	PCS	3	3					
3425	03-2002-0433	Sleave Pully A11/(02)-(i)-18	PCS	3	3					
3426	03-2002-0434	Driving Wheel Unit A11/(2)-(ii)-1	PCS	3	3					
3427	03-2002-0435	Driving Wheel Unit A11/02-(ii)-2	PCS	3	3					
3428	03-2002-0436	Gear Coupling	PCS	3	3					
3429	03-2002-0437	Gear Coupling	PCS	3	3					
3430	03-2002-0438	Braking Wheel Gear Coupling	PCS	3	3					
3431	03-2002-0439	Gear Shaft A11/02-(ii)-7	PCS	3	3					
3432	03-2002-0440	Gear Small A11/02-(ii)-8	PCS	3	3					
3433	03-2002-0441	Driving Wheel Unit A11/03-(I)-02	PCS	1	1					
3434	03-2002-0442	Driving Wheel Unit A11/(3)-(I)-2	PCS	1	1					
3435	03-2002-0443	Driving Coupling A11/(3)-(I)-3	PCS	1	1					
3436	03-2002-0444	Driving Coupling A11/(3)-(I)-4	PCS	1	1					
3437	03-2002-0445	Driving Coupling A11/(3)-(I)-5	PCS	1	1					
3438	03-2002-0446	Driving Coupling A11/(3)-(I)-6	PCS	1	1					
3439	03-2002-0447	Bridge Wheel Gear Coupling A11/(3)-(I)-7	PCS	1	1					
3440	03-2002-0448	Gear Shaft A11/(3)-(I)-10	PCS	1	1					
3441	03-2002-0449	Gear Wheel A11/(3)-(I)-11	PCS	1	1					
3442	03-2002-0450	Gear A11/(3)-(I)-12	PCS	1	1					
3443	03-2002-0451	Gear Shaft	PCS	1	1					
3444	03-2002-0452	Gear Shaft	PCS	1	1					
3445	03-2002-0453	Braking Wheel	PCS	1	1					
3446	03-2002-0454	Sheave (Pullery)	PCS	1	1					
3447	03-2002-0455	Driving Wheel Unit	PCS	1	1					
3448	03-2002-0456	Driven Wheel Unit	PCS	1	1					
3449	03-2002-0457	Gear Coupling	PCS	1	1					
3450	03-2002-0458	Braking Liver	PCS	1	1					
3451	03-2002-0459	Gear Shaft	PCS	1	1					
3452	03-2002-0460	Gear Wheel Small	PCS	1	1					
3453	03-2002-0461	Gear Wheel Small	PCS	1	1					
3454	03-2002-0462	Oil Seal PD35x65x12	PCS	12	12					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3455	03-2002-0463	Driving Wheel Unit	PCS	2	2					
3456	03-2002-0465	Braking Wheel Gear Coupling	PCS	2	2					
3457	03-2002-0466	Braking Wheel	PCS	2	2					
3458	03-2002-0467	Gear Coupling	PCS	2	2					
3459	03-2002-0468	Gear Coupling	PCS	1	1					
3460	03-2002-0469	Gear Coupling	PCS	1	1					
3461	03-2002-0470	Gear Coupling	PCS	2	2					
3462	03-2002-0473	Gear Shaft	PCS	2	2					
3463	03-2002-0474	Gear Shaft	PCS	2	2					
3464	03-2002-0476	Slave (Pulley)	PCS	2	2					
3465	03-2002-0477	Gear Coupling	PCS	2	2					
3466	03-2002-0478	Braking Wheel Gear Coupling	PCS	2	2					
3467	03-2002-0479	Gear Wheel	PCS	2	2					
3468	03-2002-0480	Driving Wheel Unit Dia 350	PCS	3	3					
3469	03-2002-0481	Driving Wheel Unit Dia 350	PCS	3	3					
3470	03-2002-0482	Braking Wheel Gear Coupling	PCS	3	3					
3471	03-2002-0483	Gear Coupling	PCS	3	3					
3472	03-2002-0484	Braking Liver	PCS	3	3					
3473	03-2002-0485	Braking Liver	PCS	3	3					
3474	03-2002-0486	Gear Shaft	PCS	3	3					
3475	03-2002-0487	Gear Shaft	PCS	3	3					
3476	03-2002-0489	Bridge Liver (Brack Shoe)	PCS	1	1					
3477	03-2002-0490	Bridge Liver (Shoe)	PCS	1	1					
3478	03-2002-0491	Gear Wheel	PCS	1	1					
3479	03-2002-0492	Gear Coupling	PCS	1	1					
3480	03-2002-0493	Braking Wheel Coupling	PCS	1	1					
3481	03-2002-0605	Spring Ring 51821-05	PCS	3	3					
3482	03-2002-0609	Oil Scraper Ring 52831-07	PCS	2	2					
3483	03-2002-0614	Pin Of goss-Head 52804-06C	PCS	3	3					
3484	03-2002-0618	Type "O" Seal Ring Mat GB 1235-76	PCS	6	6					
3485	03-2002-0619	Type "O" Seal Ring Mat A11/(4)-3	PCS	6	6					
3486	03-2002-0620	Type "O" Seal Ring Mat A11/(4)-4	PCS	8	8					
3487	03-2002-0621	Piston Ring 4L20-21-03	PCS	2	2					
3488	03-2002-0622	Piston Ring 4L20-21-02	PCS	2	2					
3489	03-2002-0623	Packing Ring 4L20-31-05	PCS	4	4					
3490	03-2002-0626	Spring 4L20-42-03	PCS	250	250					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3491	03-2002-0627	Impellar 512.047.849	PCS	1	1					
3492	03-2002-0628	Pump wear Ring 1400HB-408	PCS	1	1					
3493	03-2002-0633	Washer 171 Ch-514 K2D201	PCS	2	2					
3494	03-2002-0634	Glass Hoel Washer Ch-514-k2 D203	PCS	10	10					
3495	03-2002-0635	Lock Washer 20 GB 854-76	PCS	15	15					
3496	03-2002-0636	Lock Washer 12 GB 854-76	PCS	15	15					
3497	03-2002-0637	O Ring 8.4 Dia 275 Ch204	PCS	1	1					
3498	03-2002-0638	Rubber Ring Dia 8x1340 Dia	PCS	2	2					
3499	03-2002-0640	Rubber Ring Dia 8x1890 Dia	PCS	1	1					
3500	03-2002-0642	Rubber Ring Dia 8x1230 Dia	PCS	2	2					
3501	03-2002-0644	Rubber Ring Dia 8x1800 Dia	PCS	2	2					
3502	03-2002-0646	Rubber Ring Dia 8x840 Dia	PCS	4	4					
3503	03-2002-0647	Rubber Ring Dia 8x1860 Dia	PCS	2	2					
3504	03-2002-0648	Rubber Ring Dia 4x49 Dia	PCS	2	2					
3505	03-2002-0650	Provide Corrode Plate 26x56	PCS	16	16					
3506	03-2002-0664	Packing Sleeve HB 12x12x290	PCS	12	12					
3507	03-2002-0669	Adjuster Washer 7LDtn-0200-03	PCS	4	4					
3508	03-2002-0670	Impeller 350 HBR-0003	PCS	1	1					
3509	03-2002-0671	Provide Corrode Plate 350 HBR(JA)-001-2	PCS	13	13					
3510	03-2002-0672	Water Ring (Lower)350HBR(JA)0005	PCS	4	4					
3511	03-2002-0673	Water Ring (Upper) 350 HBR(JA)-0006	PCS	2	2					
3512	03-2002-0674	Impeller Wear Ring (Uper)	PCS	1	1					
3513	03-2002-0675	Impeller Wear Ring (Lower)350HBR(JA)-0004	PCS	1	1					
3514	03-2002-0682	Locking Washer HB 119-80	PCS	4	4					
3515	03-2002-0683	Adjuster Washer 7LDTN-0200-03	PCS	2	2					
3516	03-2002-0687	Wear Ring A11/(10)-2	PCS	5	5					
3517	03-2002-0689	Bearing 46310/2310	PCS	4	4					
3518	03-2002-0691	Casing Insert	PCS	1	1					
3519	03-2002-0693	Thrust Bush Brass	PCS	2	2					
3520	03-2002-0694	Driving Thrust Bush Brass	PCS	2	2					
3521	03-2002-0697	Bush Brass A11/(11)-8	PCS	3	3					
3522	03-2002-0702	Dished Spring	PCS	1	1					
3523	03-2002-0703	felexible elemint	PCS	2	2					
3524	03-2002-0713	Impeller A11/(13)-2-a (Stainless Stell)of Unit Drain Pump	PCS	4	4					
3525	03-2002-0715	Bottom Sleeve A11/(13)-5-c	PCS	5	5					
3526	03-2002-0717	Cover A11/(13)-2-e	PCS	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3527	03-2002-0719	cap nut	PCS	1	1					
3528	03-2002-0720	impeller A11/(13)-3-a	PCS	5	5					
3529	03-2002-0723	Casing A11/(13)-3-D	PCS	1	1					
3530	03-2002-0724	Caver	PCS	1	1					
3531	03-2002-0725	Sealing Ring A11/(13)-3-f	PCS	1	1					
3532	03-2002-0728	Impeller A11/(13)-4-a	PCS	5	5					
3533	03-2002-0729	Top Sleeve A11/(13)-4-b	PCS	1	1					
3534	03-2002-0731	Casing A11/(13)-4-b	PCS	1	1					
3535	03-2002-0732	Cover A11/(13)-4-e	PCS	1	1					
3536	03-2002-0736	Impeller A11/(13)-5-a	PCS	5	5					
3537	03-2002-0737	Top Sleeve A11/(13)-5-b	PCS	2	2					
3538	03-2002-0738	Bottom Sleeve A11/(13)-5-c	PCS	3	3					
3539	03-2002-0739	Casing A11/(13)-5-d	PCS	1	1					
3540	03-2002-0740	Cover A11/(13)-5-e	PCS	1	1					
3541	03-2002-0741	Seal Ring Teflon	PCS	5	5					
3542	03-2002-0742	Insert A11/(13)-5-g	PCS	4	4					
3543	03-2002-0744	Impellor A11/(13)-6-a	PCS	10	10					
3544	03-2002-0745	Casing A11/(13)-6-b	PCS	1	1					
3545	03-2002-0746	Cover A11/(13)-6-c	PCS	1	1					
3546	03-2002-0748	Cap Net A11/(13)-6-e	PCS	1	1					
3547	03-2002-0753	Impellor A11/(13)-8-a	PCS	2	2					
3548	03-2002-0757	Cover A11/(13)-8-e	PCS	1	1					
3549	03-2002-0766	Nut A11/(13)-10-c	PCS	1	1					
3550	03-2002-0768	Sealing Ring B2106-72-85	PCS	6	6					
3551	03-2002-0771	Vane Wheel Nut B220-72-40	PCS	2	2					
3552	03-2002-0772	M 6x8 Screw GB73-76	PCS	6	6					
3553	03-2002-0774	Sealing Ring B2106-72-115	PCS	6	6					
3554	03-2002-0778	M6x8 Screw Gb 73.76	PCS	6	6					
3555	03-2002-0779	Vane Wheel 0003 A11/(20)-1	PCS	1	1					
3556	03-2002-0780	Sealing Ring B2106-72-75 A11/(20)-2	PCS	6	6					
3557	03-2002-0781	03-1017-001	PCS	1	1					
3558	03-2002-0783	Vane Wheel Nut B2207-72-40	PCS	1	1					
3559	03-2002-0784	M6x8 Screw GB 73-76	PCS	6	6					
3560	03-2002-0785	Rubber Gear Bush A11/(21)-1	PCS	2	2					
3561	03-2002-0790	Wear Sealing Ring	PCS	10	10					
3562	03-2002-0792	Gear Ring A11/(22)-1	PCS	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3563	03-2002-0794	Rubber Bearing A11/(22)-3	PCS	2	2					
3564	03-2002-0795	Sealing Ring	PCS	2	2					
3565	03-2002-0798	Sealing Ring	PCS	2	2					
3566	03-2002-0802	Sealing Ring	PCS	4	4					
3567	03-2002-0808	Vane Wheel (Back Washing Pump 10SH-B)	PCS	1	1					
3568	03-2002-0810	Sealing	PCS	4	4					
3569	03-2002-0817	Sleeve	PCS	2	2					
3570	03-2002-0820	Bearing for A (Motor 6316)	PCS	1	1					
3571	03-2002-0821	Impellor 7LDTN-7-A-0103	PCS	1	1					
3572	03-2002-0822	Inducer Bush 7LDTN-0005	PCS	2	2					
3573	03-2002-0823	Wear Ring	PCS	10	10					
3574	03-2002-0824	Lower Shaft Sleeve 7LDTN-0104	PCS	2	2					
3575	03-2002-0826	Middle Shaft Sleeve 7LDTN-0013	PCS	2	2					
3576	03-2002-0827	2nd Shaft Sleeve 7LDTN-0021	PCS	1	1					
3577	03-2002-0828	Lower Bearing 7LDTN-0003	PCS	5	5					
3578	03-2002-0831	Wear Ring	PCS	4	4					
3579	03-2002-0832	Shaft Sleeve	PCS	4	4					
3580	03-2002-0833	Bearing 42610/46310	PCS	1	1					
3581	03-2002-0835	Shaft Sleeve	PCS	4	4					
3582	03-2002-0837	Bearing 42610/46310	PCS	2	2					
3583	03-2002-0839	Shaft Sleeve	PCS	4	4					
3584	03-2002-0840	Wear Ring	PCS	4	4					
3585	03-2002-0842	Pump Casing	PCS	2	2					
3586	03-2002-0843	Impellor 2 PN-02	PCS	4	4					
3587	03-2002-0844	Liver 2PN-03	PCS	6	6					
3588	03-2002-0845	Suction Pipe 2PN-04	PCS	3	3					
3589	03-2002-0846	Shaft 2 PN-05	PCS	3	3					
3590	03-2002-0847	Shaft Seal Housing 2 PN-06	PCS	3	3					
3591	03-2002-0848	Shaft Seal 2 PN-07	PCS	4	4					
3592	03-2002-0849	Open Type Packing Gland 2 PN-09	PCS	2	2					
3593	03-2002-0850	Parking Ring Compressor 2PN-10	PCS	5	5					
3594	03-2002-0851	40 Bearing Box	PCS	5	5					
3595	03-2002-0852	Pump Coupling Dia 35 Sbb0.5-160-1	PCS	2	2					
3596	03-2002-0854	Pump Casing 25 WG-01	PCS	2	2					
3597	03-2002-0855	Shaft Seal Housing 25WG-02	PCS	2	2					
3598	03-2002-0856	Impellor 25Wg-03	PCS	5	5					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3599	03-2002-0857	Shaft 25 WG-04	PCS	5	5					
3600	03-2002-0858	Shaft Sleeve 25Wg-06	PCS	10	10					
3601	03-2002-0859	Packing Gland 25Wg-07	PCS	2	2					
3602	03-2002-0860	Packing Ring 25WG-08	PCS	5	5					
3603	03-2002-0861	Frame Casing SBB007-140-01	PCS	1	1					
3604	03-2002-0862	Back Bearing Gland Sbb071-	PCS	1	1					
3605	03-2002-0865	Motor Coupling Dia 24 SBB005A-95-05	PCS	2	2					
3606	03-2002-0866	Back Liver A2-14931	PCS	10	10					
3607	03-2002-0867	Seal Washer of Back Liver rubber ESY-2910	PCS	9	9					
3608	03-2002-0868	Bearing Housing A1-18989	PCS	2	2					
3609	03-2002-0870	Bearing Retanier A2-14972	PCS	5	5					
3610	03-2002-0873	End Cover A2-14960	PCS	5	5					
3611	03-2002-0874	Lower and Cover A4-14984	PCS	5	5					
3612	03-2002-0875	Seal Washer of End Cover A4-14983	PCS	9	9					
3613	03-2002-0876	"O" Ring 35-T152N 258 ESY-7494	PCS	10	10					
3614	03-2002-0877	Flinger Rubber A3-19104	PCS	5	5					
3615	03-2002-0878	"O"Ring 26 T 36 N 127 Esy-7494	PCS	8	8					
3616	03-2002-0879	Labyrith Bush A3-14959	PCS	3	3					
3617	03-2002-0880	Labyrith Ring Esy-7481	PCS	3	3					
3618	03-2002-0883	Strsiner A2-18747 Ruller	PCS	10	10					
3619	03-2002-0884	Lower Srainer A2-149325	PCS	3	3					
3620	03-2002-0885	Seal Washer of Section A4-16719 Rullor	PCS	8	8					
3621	03-2002-0887	Sealing of Pump Cover 300l-19Tx1	PCS	3	3					
3622	03-2002-0888	Sealing of Impellor 3001-19Tx1	PCS	2	2					
3623	03-2002-0894	1st Impeller 50Y-60x-004	PCS	1	1					
3624	03-2002-0895	2nd Impeller 50Y.60x2-005	PCS	1	1					
3625	03-2002-0896	Casing Wear Ring 90xB200-67-90	PCS	2	2					
3626	03-2002-0898	Bush 40xB220-67-40	PCS	1	1					
3627	03-2002-0899	Space Sleeve 40xB213-67-40	PCS	1	1					
3628	03-2002-0901	Casing Wear Ring xB200-67-95	PCS	2	2					
3629	03-2002-0902	Impeller Wear Ring xB201-67-95	PCS	2	2					
3630	03-2002-0905	Journal Bearing Dia 250 Unit(1)	PCS	1	1					
3631	03-2002-0911	opper Thermo Resistance WZC-220 Model	PCS	4	4					
3632	03-2002-0916	Spring 69.408.006	PCS	1	1					
3633	03-2002-0917	Shding Bearing 69.450.030	PCS	1	1					
3634	03-2002-0918	Rolling Bearing 46412	PCS	2	2					

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1	2	3	4	5	6	7	8	10	11	12
3635	03-2002-0919	Seal ing Ring 69.450.03Z	PCS	2	2					
3636	03-2002-0920	Flooting Sealing Ring 69-451.035	PCS	2	2					
3637	03-2002-0921	Bearing bush 69.451.039	PCS	2	2					
3638	03-2002-0922	Rolling Bearing 46409	PCS	1	1					
3639	03-2002-0923	Spring Dia 250 55-302.036	PCS	2	2					
3640	03-2002-0924	Spring Dia 165 55-302.036	PCS	2	2					
3641	03-2002-0925	Piston Rod 69.302.003	PCS	1	1					
3642	03-2002-0926	Sleeve 69.302.007	PCS	1	1					
3643	03-2002-0927	Spring Dia 85 69.302.013	PCS	2	2					
3644	03-2002-0928	Spring Dia 50 69.302.014	PCS	2	2					
3645	03-2002-0929	Bush 69.302-027	PCS	1	1					
3646	03-2002-0930	Spring Dia 255 55.307-036	PCS	2	2					
3647	03-2002-0931	Spring Dia 169 55.307-037	PCS	2	2					
3648	03-2002-0932	Sleeve 55.307.017	PCS	1	1					
3649	03-2002-0933	Bush Rod 55.307.035	PCS	1	1					
3650	03-2002-0934	Spring Dia165 55.318.054	PCS	4	4					
3651	03-2002-0935	Spring Dia 100 55.318.058	PCS	3	3					
3652	03-2002-0936	Spring 55.319.010	PCS	4	4					
3653	03-2002-0937	Rod 55.319.006	PCS	4	4					
3654	03-2002-0938	Support Block(Top)55.319.007	PCS	4	4					
3655	03-2002-0939	Support Block (Bottom) 55.319.001	PCS	4	4					
3656	03-2002-0941	D.C Magnet Dia M1-1521 Model 22V	PCS	1	1					
3657	03-2002-0943	Sleeve for No.1 relay Valve 55.35."o"	PCS	1	1					
3658	03-2002-0944	No.1 Relay Valve 55.351.012	PCS	1	1					
3659	03-2002-0945	No.3 Relay Valve 55.351.024	PCS	1	1					
3660	03-2002-0946	Sleeve for No.2 Relay Valve 55.351.029	PCS	1	1					
3661	03-2002-0947	No.2 Relay Valve 55.351.1Z	PCS	1	1					
3662	03-2002-0948	Roller 69.358.003	PCS	2	2					
3663	03-2002-0949	Centrifugal Bolt 55.376.004	PCS	2	2					
3664	03-2002-0950	Roller 69.357.005	PCS	1	1					
3665	03-2002-0952	Spring 55.377.008	PCS	2	2					
3666	03-2002-0953	Spring 55.378.006	PCS	2	2					
3667	03-2002-0954	Spring 55.379.012	PCS	1	1					
3668	03-2002-0955	Spring 55.379.015	PCS	2	2					
3669	03-2002-0957	Spring 55.380.030	PCS	1	1					
3670	03-2002-0958	Spring 55.380.023	PCS	1	1					

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S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3671	03-2002-0959	Roller 55.350.049	PCS	8	8					
3672	03-2002-0960	Spring 55.350.050	PCS	8	8					
3673	03-2002-0961	No.1 Lever 55.377.006	PCS	1	1					
3674	03-2002-0962	No.2 Lever 55.377.011	PCS	1	1					
3675	03-2002-0963	Rellay Valve 55.378-107	PCS	2	2					
3676	03-2002-0964	Sleeve 55.378.108	PCS	2	2					
3677	03-2002-0965	Rod 55.378.109	PCS	2	2					
3678	03-2002-0966	Tube for Cooling Water Dia 25x1 1.5	PCS	50	50					
3679	03-2002-0968	Tube for Cooling Water Dia 25x1 1	PCS	25	25					
3680	03-2002-0969	cv Ni Tube (B-30) Dia 19x1 L=8838	PCS	15	15					
3681	03-2002-0970	cv Ni Tube (B-30) Dia 19x1 L=8642	PCS	15	15					
3682	03-2002-0971	cv Ni Tube (B-30) Dia 19x1 L=8642	PCS	25	25					
3683	03-2002-0972	cv Ni Tube (B-30) Dia 19x1 L=5663	PCS	15	15					
3684	03-2002-0973	cv Ni Tube (B-30) Dia 19x1 L=6562	PCS	15	15					
3685	03-2002-0974	cv Ni Tube (B-30) Dia 19x1 L=3624	PCS	15	15					
3686	03-2002-0975	Copper Tube L=3116	PCS	20	20					
3687	03-2002-0982	Heat Ignitor Guide Tubr Assy 1385.038	PCS	4	4					
3688	03-2002-0983	Retoactuble Heat Ignitor	PCS	2	2					
3689	03-2002-0984	Top Air Comp:Assy: 1389.011	PCS	3	3					
3690	03-2002-0985	Bottom Air Com:Assy:1389.012	PCS	2	2					
3691	03-2002-0986	Middle Air Com:Assy 1389.013 No1	PCS	16	16					
3692	03-2002-0987	Middle Air Com:Assy 1389.014 No2	PCS	8	8					
3693	03-2002-0988	Oil Comp:Assy:1389.016	PCS	9	9					
3694	03-2002-0990	Gank Assy 00185.80G 003	PCS	2	2					
3695	03-2002-0991	Damper Diving Devies Zcl(GF)21	PCS	2	2					
3696	03-2002-0994	Metal Hose Wt220-950	PCS	6	6					
3697	03-2002-0999	IMO Pump SFPF-20-46	PCS	2	2					
3698	03-2002-1001	Pilot Stem 4274701	PCS	1	1					
3699	03-2002-1002	Ret Ring 2410802	PCS	1	1					
3700	03-2002-1003	Pilot Valve Spring VA-242	PCS	1	1					
3701	03-2002-1004	St Bush Gasket 3830714	PCS	1	1					
3702	03-2002-1005	Expansion Gasket 3830442	PCS	1	1					
3703	03-2002-1006	Disc 0752701	PCS	1	1					
3704	03-2002-1007	SPG (M.V Spring)4076401	PCS	1	1					
3705	03-2002-1008	Disc VGZ 815	PCS	2	2					
3706	03-2002-1009	UPR Ring Pin Vp813H	PCS	2	2					

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1	2	3	4	5	6	7	8	10	11	12
3707	03-2002-1010	LWR Ring Pin VP813A	PCS	2	2					
3708	03-2002-1011	Disc WC 815	PCS	2	2					
3709	03-2002-1012	UPR Ring PIN VP 813J	PCS	2	2					
3710	03-2002-1013	LWR Ring Pin	PCS	2	2					
3711	03-2002-1015	UPR Ring PIN VP813B	PCS	1	1					
3712	03-2002-1016	UPR Ring PIN VP813C	PCS	1	1					
3713	03-2002-1018	UPR Ring Pin Vp 813ADJ	PCS	2	2					
3714	03-2002-1019	LWR Ring Pin VP 813 CADJ	PCS	2	2					
3715	03-2002-1020	Gland Packing 2005274	PCS	1	1					
3716	03-2002-1022	Stem Belt Eye 0041605	PCS	1	1					
3717	03-2002-1023	Female Disc 0520145	PCS	1	1					
3718	03-2002-1024	Male Disc 0510622	PCS	1	1					
3719	03-2002-1025	Disc SPG 0560170	PCS	1	1					
3720	03-2002-1026	Neck Bush 0800269	PCS	1	1					
3721	03-2002-1033	Pressure Seal Packing E32s-21/022	PCS	1	1					
3722	03-2002-1034	Packing Ring E325.21/044	PCS	2	2					
3723	03-2002-1035	Valve Stem NB64-500 AG-1/002	PCS	1	1					
3724	03-2002-1036	Valve Stem Plug NB64-500A6-1/004	PCS	1	1					
3725	03-2002-1037	Gasket NB64-500A6-1/013	PCS	1	1					
3726	03-2002-1038	Packing Ring Grafoil NB64-500A6-1/144	PCS	2	2					
3727	03-2002-1039	Valve Stem NR100-100-15/002	PCS	1	1					
3728	03-2002-1040	Gasket NR100-100-15/032	PCS	1	1					
3729	03-2002-1041	packing Ring NR100-100-15/049	PCS	2	2					
3730	03-2002-1043	Packing Sealing ASM63-10	PCS	2	2					
3731	03-2002-1050	Filter 86-211/20	PCS	1	1					
3732	03-2002-1055	Axial Piston Pump 86-167/7056	PCS	1	1					
3733	03-2002-1057	Filter Cartridge 86-167/7025	PCS	3	3					
3734	03-2002-1058	Suction Filter 86-167/7057	PCS	1	1					
3735	03-2002-1059	Air Filter Cartridge 86-167/7161	PCS	1	1					
3736	03-2002-1064	Pump Coupling Valve 86-167/7063	PCS	1	1					
3737	03-2002-1065	Motor Coupling Valve 86-167/7062	PCS	1	1					
3738	03-2002-1066	Rubber Pin Valve 86-167/7064	PCS	11	11					
3739	03-2002-1067	Level Switch With Thermo Stat 86-199	PCS	1	1					
3740	03-2002-1068	Confrol Unit Solonide Valve SM10	PCS	1	1					
3741	03-2002-1069	Micro Processr Controller RM-20 Sulzer	PCS	1	1					
3742	03-2002-1070	Desk Lamp Logic Sl10	PCS	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3743	03-2002-1072	Power Module for Solonide Valve LM10	PCS	1	1					
3744	03-2002-1073	Supply Classis for Grid Supple ND10	PCS	1	1					
3745	03-2002-1074	DC/PC Converter for 24V/16A	PCS	1	1					
3746	03-2002-1075	De Coupling and Monitoring the-24v Supple 5N-10	PCS	1	1					
3747	03-2002-1076	alarm Signal Collection Module ss10	PCS	1	1					
3748	03-2002-1077	Supply Monitoring Module SV-10	PCS	1	1					
3749	03-2002-1083	Alarm Windows 831 KA4223	PCS	1	1					
3750	03-2002-1085	Gaskit Glass Assembly Part No.923321	PCS	64	64					
3751	03-2002-1087	Part No. 102875	PCS	2	2					
3752	03-2002-1088	Part No. 917211	PCS	50	50					
3753	03-2002-1089	Green Glass Bar With Gas Ket	PCS	12	12					
3754	03-2002-1090	Red Glass Bar	PCS	12	12					
3755	03-2002-1091	Chain G-1	MTR	13	13					
3756	03-2002-1092	Spare parts for Module BA-89	PCS	1	1					
3757	03-2002-1093	Spare parts for Module D-6-150 Strainess	PCS	1	1					
3758	03-2002-1094	Spare Parts for Module B40 DB Birotor Meter	PCS	1	1					
3759	03-2002-1095	Spare Parts for Module B-74 DEB Birotor Meter	PCS	1	1					
3760	03-2002-1096	Spare Parts for Module B-73 DEB Birotor Meter	PCS	1	1					
3761	03-2002-1099	Connecting Coupling	PCS	1	1					
3762	03-2002-1104	Impeller	PCS	4	4					
3763	03-2002-1105	Sleeve A11/(33)-B	PCS	6	6					
3764	03-2002-1106	Driving Shaft of Long	PCS	5	5					
3765	03-2002-1108	Motors Shaft	PCS	1	1					
3766	03-2002-1109	Shaft of Impeller	PCS	1	1					
3767	03-2002-1110	Spart	PCS	7	7					
3768	03-2002-1111	Connecting Coupling	PCS	4	4					
3769	03-2002-1112	Rubber Bearing of Watrer	PCS	2	2					
3770	03-2002-1113	Rubber Bearing of Inter Mediate	PCS	18	18					
3771	03-2002-1114	Rubber Bearing of Spart	PCS	21	21					
3772	03-2002-1115	Piston Ring 55.302.030	PCS	4	4					
3773	03-2002-1116	Spring and Seal	PCS	2	2					
3774	03-2002-1117	Piston Ring 55.037.040	PCS	4	4					
3775	03-2002-1118	Relay valve 55.307.016	PCS	1	1					
3776	03-2002-1119	Bush 55.307.023	PCS	1	1					
3777	03-2002-1120	Adjusting Nut 55.351.020	PCS	1	1					
3778	03-2002-1121	Connecting Rod 55.351.022	PCS	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3779	03-2002-1122	Lever 55.351-018	PCS	1	1					
3780	03-2002-1123	Sleeve for No.3 Relay Valve 55.351.023	PCS	1	1					
3781	03-2002-1124	Piston Ring 69.357.114	PCS	4	4					
3782	03-2002-1125	Piston Ring 55.358.045	PCS	2	2					
3783	03-2002-1126	relay Valve 55.326.008	PCS	1	1					
3784	03-2002-1127	Sleeve 55.326.009	PCS	1	1					
3785	03-2002-1131	Sleeve 69.364.006	PCS	1	1					
3786	03-2002-1133	Tube Expender Dia 25x1	PCS	8	8					
3787	03-2002-1134	Tube Expender Dia 16x1	PCS	3	3					
3788	03-2002-1135	Tube Expender Dia 19x1	PCS	3	3					
3789	03-2002-1136	Locating Device 16.1 Dia 19.1	PCS	6	6					
3790	03-2002-1137	Locating Device 25.x1	PCS	6	6					
3791	03-2002-1138	40 Bearing Gland	PCS	2	2					
3792	03-2002-1139	Gravity Exhast Valve WT40-11001102	PCS	12	12					
3793	03-2002-1140	Washer JZ 6012	PCS	6	6					
3794	03-2002-1142	Bearing No.320	PCS	3	3					
3795	03-2002-1144	Bearing No.2320	PCS	3	3					
3796	03-2002-1147	Torque Wrench	PCS	1	1					
3797	03-2002-1148	Half Ring	PCS	2	2					
3798	03-2002-1153	Fixing Ring	PCS	1	1					
3799	03-2002-1154	Suppirt Ring	PCS	1	1					
3800	03-2002-1155	Washer	PCS	4	4					
3801	03-2002-1156	Pulling Rod	PCS	4	4					
3802	03-2002-1157	Nut	PCS	4	4					
3803	03-2002-1159	Lock Plate/Plate	PCS	12	12					
3804	03-2002-1160	Bolt (A3) M16x45	PCS	12	12					
3805	03-2002-1161	Shid / Bolt	PCS	3	3					
3806	03-2002-1162	Pressing Stud / Bolt	PCS	12	12					
3807	03-2002-1163	wrench	PCS	1	1					
3808	03-2002-1164	Support Plate	PCS	4	4					
3809	03-2002-1165	Connecting Bolt	PCS	4	4					
3810	03-2002-1166	Bolt M42x220	PCS	8	8					
3811	03-2002-1169	Conector	PCS	4	4					
3812	03-2002-1170	Connecting Bolt	PCS	4	4					
3813	03-2002-1171	Roller	PCS	4	4					
3814	03-2002-1172	Lifting Siling	PCS	2	2					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3815	03-2002-1174	Plate	PCS	1	1					
3816	03-2002-1175	Bolt M 16x80	PCS	9	9					
3817	03-2002-1180	Steel Plate	PCS	1	1					
3818	03-2002-1181	Flange	PCS	1	1					
3819	03-2002-1182	Locking Pin Dia 40	PCS	4	4					
3820	03-2002-1183	Bolt for Shing (Eye Bolt)	PCS	1	1					
3821	03-2002-1184	Bolt (M20x50)	PCS	8	8					
3822	03-2002-1185	Washer M36	PCS	4	4					
3823	03-2002-1186	Nut (A3) M36	PCS	4	4					
3824	03-2002-1187	Spacer	PCS	1	1					
3825	03-2002-1188	Ring	PCS	1	1					
3826	03-2002-1189	Pulling Bar	PCS	3	3					
3827	03-2002-1190	Ring	PCS	1	1					
3828	03-2002-1191	Washer	PCS	4	4					
3829	03-2002-1192	Nut	PCS	4	4					
3830	03-2002-1193	Support Ring	PCS	1	1					
3831	03-2002-1194	Spacer	PCS	1	1					
3832	03-2002-1196	Base	PCS	1	1					
3833	03-2002-1197	Bolt (A3) M30x80	PCS	6	6					
3834	03-2002-1199	Bolt (A3) M24x60	PCS	4	4					
3835	03-2002-1200	Bearing Suppirt Assembly	PCS	1	1					
3836	03-2002-1201	Dowel Pin Dia 20x50	PCS	2	2					
3837	03-2002-1202	Bolt (A3) M24x50	PCS	4	4					
3838	03-2002-1203	Washer 24	PCS	5	5					
3839	03-2002-1204	Support	PCS	1	1					
3840	03-2002-1205	Hand Wheel	PCS	1	1					
3841	03-2002-1206	Nut (A3) BM24	PCS	1	1					
3842	03-2002-1207	Handle	PCS	4	4					
3843	03-2002-1208	Aligment Bearing	PCS	1	1					
3844	03-2002-1254	Cylinder Ring Expander	PCS	1	1					
3845	03-2002-1256	Lifting tool for Roter	PCS	1	1					
3846	03-2002-1257	Bridge Caliper	PCS	5	5					
3847	03-2002-1258	Pipe Shaper	Set	1	1					
3848	03-2002-1262	coupler cutter 49.8	PCS	1	1					
3849	03-2002-1263	coupler cutter 50	PCS	1	1					
3850	03-2002-1264	coupler cutter 50.2	PCS	1	1					

IMDAD ALI QAZI
SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3851	03-2002-1268	Dynamameter	Nos	30	30					
3852	03-2002-1269	Pad	PCS	30	30					
3853	03-2002-1270	Crank Shaft Gauge	Set	1	1					
3854	03-2002-1272	Disassembing Tool for Valve Seat	Nos.	1	1					
3855	03-2002-1273	Disassembing Tool for Wloading Valve	Nos.	1	1					
3856	03-2002-1274	Lifting Tool for Piston	Nos.	1	1					
3857	03-2002-1275	Dismantle tool for cylinder	Nos.	1	1					
3858	03-2002-1276	Measurement Oil Pump Cylinder	Nos.	1	1					
3859	03-2002-1277	Tool for Valve Spring	Nos.	2	2					
3860	03-2002-1278	Tool for Oil Sprayer	Nos.	1	1					
3861	03-2002-1279	Max:Preassure set	Nos.	1	1					
3862	03-2002-1280	Tool for Piston Ring	Nos.	1	1					
3863	03-2002-1282	Wrench for main Shaft	Nos.	1	1					
3864	03-2002-1284	Socket Wreah S=50	Nos.	1	1					
3865	03-2002-1285	Wrench for Crank Shaft Nut	Nos.	1	1					
3866	03-2002-1286	Handle	Nos.	1	1					
3867	03-2002-1287	Wrech for Big Crank Shaft Nut	Nos.	1	1					
3868	03-2002-1292	Union Wrench S=24	Nos.	1	1					
3869	03-2002-1293	Wrench for Oil Valve Seat	Nos.	1	1					
3870	03-2002-1295	Inside Hex Wrench	Nos.	1	1					
3871	03-2002-1296	Flying Wheel Ring Bolt	Nos.	1	1					
3872	03-2002-1297	Torque Wrench 28-76 Kg/Cm2	Nos.	1	1					
3873	03-2002-1298	Torque Wrench 75-200 Kg/Cm2	Nos.	1	1					
3874	03-2002-1299	Socket for Troque Worch	Nos.	1	1					
3875	03-2002-1300	Socket for Troque Worch	Nos.	1	1					
3876	03-2002-1301	Wrench for Coupler	Nos.	1	1					
3877	03-2002-1302	Bent Plate for visul Glass	Nos.	1	1					
3878	03-2002-1303	Socket Wrench of The Round Nut	Nos.	1	1					
3879	03-2002-1304	Disassemble Tools for Bearing	Nos.	1	1					
3880	03-2002-1305	Sokect Wrench (10)	Nos.	1	1					
3881	03-2002-1306	Sokect Wrench (15)	Nos.	1	1					
3882	03-2002-1307	Sokect Wrench (17)	Nos.	1	1					
3883	03-2002-1311	Wrench (Inside Hex)(3)	Nos.	1	1					
3884	03-2002-1313	Wrench (Inside Hex)(6)	Nos.	1	1					
3885	03-2002-1314	Wrench Connector Rod (6)	Nos.	1	1					
3886	03-2002-1315	Wrench Connector Rod (8)	Nos.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3887	03-2002-1316	Wrench Connector Rod (10)	Nos.	1	1					
3888	03-2002-1317	Lifting Ring Nut M16x15	Nos.	1	1					
3889	03-2002-1318	Screw Driver (4)	Nos.	1	1					
3890	03-2002-1319	Disassembling Nut	Nos.	1	1					
3891	03-2002-1320	Disassembling tool for Lub Gear	Nos.	1	1					
3892	03-2002-1321	Fixing Tool	Nos.	1	1					
3893	03-2002-1322	Stud Bolt	Nos.	2	2					
3894	03-2002-1328	Calliper Assemble	Nos.	1	1					
3895	03-2002-1329	Disassembing tool for oil Valve	Nos.	1	1					
3896	03-2002-1330	Disassembing tool for oil Spring	Nos.	1	1					
3897	03-2002-1331	Tool for Inslating Pistion	Nos.	1	1					
3898	03-2002-1332	Inside Hex Wrench S=17	Nos.	1	1					
3899	03-2002-1333	Bearing for Adjiusting/Adjusting Bearing	Nos.	6	6					
3900	03-2002-1335	Spanner for Shaft and Nut	Nos.	1	1					
3901	03-2002-1338	Fixture for Lifting and monting Shaft	Nos.	2	2					
3902	03-2002-1339	Adjusting Bearing	Nos.	1	1					
3903	03-2002-1340	Hook Wrench 68-72	Nos.	14	14					
3904	03-2002-1341	Hook Wrench 55-62	Nos.	12	12					
3905	03-2002-1342	Hook Wrench 90-95	Nos.	1	1					
3906	03-2002-1343	Wrench 5x80	Nos.	2	2					
3907	03-2002-1344	Wrench 6x90	Nos.	2	2					
3908	03-2002-1345	Wrench 80	Nos.	2	2					
3909	03-2002-1346	Wrench 8x100	Nos.	2	2					
3910	03-2002-1347	Hook Wrench 45x52	Nos.	10	10					
3911	03-2002-1348	Wrench	Nos.	5	5					
3912	03-2002-1349	Hexagon Ring Spanner	Nos.	1	1					
3913	03-2002-1350	Pressing Plate 6"	Nos.	2	2					
3914	03-2002-1351	Indicator	Nos.	1	1					
3915	03-2002-1353	Double end shid M36x230	Nos.	3	3					
3916	03-2002-1354	Washer 22(22x140x120)	Nos.	1	1					
3917	03-2002-1355	Screw M20 (232)	Nos.	1	1					
3918	03-2002-1356	Nut M20	Nos.	6	6					
3919	03-2002-1358	Disc 7 (7x40x20)	Nos.	1	1					
3920	03-2002-1359	Forling Screw M20x180	Nos.	1	1					
3921	03-2002-1360	Hexagon Screw M12x80	Nos.	2	2					
3922	03-2002-1361	Nut M12	Nos.	4	4					

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1	2	3	4	5	6	7	8	10	11	12
3923	03-2002-1363	Threated screw BM12x80	Nos.	1	1					
3924	03-2002-1365	Ring 97 (97x117x25)	Nos.	1	1					
3925	03-2002-1366	Threated Spindle M10x180	Nos.	2	2					
3926	03-2002-1367	Nut M10	Nos.	6	6					
3927	03-2002-1369	Nut M16	Nos.	3	3					
3928	03-2002-1370	Pipe 121x6.3x66	Nos.	1	1					
3929	03-2002-1371	Threated Spindle M10x800	Nos.	2	2					
3930	03-2002-1372	Threated Spindle M8x800	Nos.	2	2					
3931	03-2002-1373	Nut M8	Nos.	2	2					
3932	03-2002-1374	Clamping Device	Nos.	1	1					
3933	03-2002-1375	Clamping Sleeve	Nos.	1	1					
3934	03-2002-1376	Roller 24x70x215	Nos.	1	1					
3935	03-2002-1377	Nut M24	Nos.	4	4					
3936	03-2002-1378	Stud Bolt M24x215	Nos.	1	1					
3937	03-2002-1379	Guide Pice	Nos.	1	1					
3938	03-2002-1380	Washer 20	Nos.	2	2					
3939	03-2002-1381	Bolt M24x105x80	Nos.	2	2					
3940	03-2002-1382	Pipe 1.08x7.5x200	Nos.	1	1					
3941	03-2002-1383	Pipe 121x6.5x100	Nos.	1	1					
3942	03-2002-1384	Pipe 121x6.5x149	Nos.	1	1					
3943	03-2002-1385	Threated Sleeve	Nos.	1	1					
3944	03-2002-1386	Support Ring 80.5	Nos.	1	1					
3945	03-2002-1387	Support Ring 82.5	Nos.	1	1					
3946	03-2002-1388	Screw M20x70	Nos.	1	1					
3947	03-2002-1389	Pipe 121x11x750	Nos.	1	1					
3948	03-2002-1390	Guide Holder 40	Nos.	1	1					
3949	03-2002-1391	Screw M12x40	Nos.	1	1					
3950	03-2002-1392	Stud Bolt M24x170	Nos.	2	2					
3951	03-2002-1393	Roller (24x70x100)	Nos.	2	2					
3952	03-2002-1395	Guide Rail	Nos.	2	2					
3953	03-2002-1396	Nut M30	Nos.	2	2					
3954	03-2002-1397	Support	Nos.	2	2					
3955	03-2002-1398	Pressure Plate 40x20x70	Nos.	1	1					
3956	03-2002-1399	Screw M16x30	Nos.	2	2					
3957	03-2002-1400	Screw M20x40	Nos.	4	4					
3958	03-2002-1401	Pressure Plate 40x50	Nos.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
3959	03-2002-1404	Extractor Device	Nos.	1	1					
3960	03-2002-1405	Threated Pin M20x200	Nos.	1	1					
3961	03-2002-1406	Disc 21	Nos.	1	1					
3962	03-2002-1407	Screw M20x18	Nos.	1	1					
3963	03-2002-1409	Hexagon Bolt MB 12x80	Nos.	1	1					
3964	03-2002-1410	Socket Wrench Sw 10=+Sw95	Nos.	1	1					
3965	03-2002-1411	Ring Spanner SW10	Nos.	1	1					
3966	03-2002-1412	Hook Wrench A95-100	Nos.	1	1					
3967	03-2002-1413	Single and open Spanner 65mm	Nos.	1	1					
3968	03-2002-1414	Extractor device	Nos.	3	3					
3969	03-2002-1415	Nut M36	Nos.	2	2					
3970	03-2002-1416	support Sleeve	Nos.	1	1					
3971	03-2002-1418	Spanner For Cylinder Seat	Nos.	1	1					
3972	03-2002-1419	Sapnner Rod	Nos.	1	1					
3973	03-2002-1420	Handle for Piston	Nos.	3	3					
3974	03-2002-1422	SpannerFor Rod of Cylinder	Nos.	2	2					
3975	03-2002-1425	Spanner Rod Dia 25x3x500	Nos.	2	2					
3976	03-2002-1427	Sealing Ring	Nos.	2	2					
3977	03-2002-1428	Sapnner for Piston Nut	Nos.	2	2					
3978	03-2002-1429	Ratchet Wrench	Nos.	2	2					
3979	03-2002-1430	Wrench 6x90mm	Nos.	3	3					
3980	03-2002-1431	Wrench 8x100 mm	Nos.	6	6					
3981	03-2002-1433	Wrench 5x80 mm	Nos.	12	12					
3982	03-2002-1434	Wrench 8	Nos.	10	10					
3983	03-2002-1435	Special Tools	Nos.	1	1					
3984	03-2002-1436	Angle Measurement Meter For Blades	Nos.	1	1					
3985	03-2002-1437	Hook Wrench A95-100	Nos.	2	2					
3986	03-2002-1438	Rothing Handle For Vacume Breaker	Nos.	1	1					
3987	03-2002-1439	Emergence switch of rod for Vacume Breaker	Nos.	1	1					
3988	03-2002-1440	Operating Rod	Nos.	1	1					
3989	03-2002-1441	Operating Handle for Earthing Blade	Nos.	1	1					
3990	03-2002-1442	Extracting Rail for Me Beaker	Nos.	2	2					
3991	03-2002-1443	Operating Handle for Earthing Blade	Nos.	5	5					
3992	03-2002-1444	Rothing Handle For Vacume Breaker	Nos.	3	3					
3993	03-2002-1445	Trolley	Nos.	1	1					
3994	03-2002-1446	Wrench (Inside Nut) L-Key)	Nos.	1	1					

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1	2	3	4	5	6	7	8	10	11	12
3995	03-2002-1467	Hook Wrench 34-36 mm	Nos.	1	1					
3996	03-2002-1468	Pincer	Nos.	1	1					
3997	03-2002-1469	Lubgun	Nos.	2	2					
3998	03-2002-1472	Ring	Nos.	1	1					
3999	03-2002-1473	Tools 4Nos=1 Set	Set	2	2					
4000	03-2002-1474	Reheating Inlet (Left Inlet)=4	PCS	1	1					
4001	03-2002-1475	Reheating Inlet (Right Frent)=3	PCS	1	1					
4002	03-2002-1476	Reheating Inlet (Right Rear)=1	PCS	1	1					
4003	03-2002-1477	Reheating Inlet (Left rear)=2	PCS	1	1					
4004	03-2002-1478	Rehating Out let (Right)	PCS	1	1					
4005	03-2002-1479	Rehating Out let (Left)	PCS	1	1					
4006	03-2002-1480	Supper Heating	PCS	2	2					
4007	03-2002-1481	Left frant Drum #4	PCS	1	1					
4008	03-2002-1482	Right Front of Drum #3	PCS	1	1					
4009	03-2002-1483	Right Rear of Drum #1	PCS	1	1					
4010	03-2002-1484	Left Rear Of Drun	PCS	1	1					
4011	03-2002-1485	Hook Wrench 108	PCS	2	2					
4012	03-2002-1486	Hook Wrench 108-195	PCS	1	1					
4013	03-2002-1495	Air Preheater Gear Assembly With Bearing	Set	1	1					
4014	03-2002-1497	Ball Bearing 46207	PCS	1	1					
4015	03-2002-1499	Impeller AVI/(7)-1	PCS	2	2					
4016	03-2002-1501	Set of Sacrifical Anode	PCS	118	118					
4017	03-2002-1506	Insulation (Us1.960)	PCS	58	58					
4018	03-2002-1507	Abesros Washer Silicon Aluminum Fiba Black(WOOL)	PCS	420	420					
4019	03-2002-1509	electric moter off size	Nos.	7	7					
4020	03-2005-0005	Throter Ring	Nos	1	1					
4021	03-2005-0006	Seeling Ring	Nos	52	52					
4022	03-2005-0007	Seeling ring	Nos	13	13					
4023	03-2005-0008	Seeling Ring	Nos	23	23					
4024	03-2005-0025	Piston Ring 4L20-21-03	Nos	4	4					
4025	03-2005-0026	Piston Ring 4L20-22-02	Nos	4	4					
4026	03-2005-0027	Seeling Ring 4L 20-31-05	Pair	2	2					
4027	03-2007-0033	bearing bottom plane lead for cwp moter	pcs	24						
4028	L/O/CABLE:04	CONTROL CABIN 19 CORE 1.5 mm	Meter	60	60					
4029	L/O/CABLE:10	TELEPHONE CABLE 100 CORE 0.5 mm	Meter	150	150					
4030	L/O/CABLE:11	CONTROL CABLE 10 CORE 2 mm	Meter	50	50					

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1	2	3	4	5	6	7	8	10	11	12
4031	L/O/CABLE:34	TELEPHONE CABLE 25 CORE 0.5 mm	Meter	150	150					
4032	L/O/CABLE:40	CONTROL CABLE 10 CORE 2 mm	Meter	40	40					
4033	L/O/ELECT:00	SECOND PLUG	NO.	11	11					
4034	L/O/ELECT:00	BLOCK SHIELD	NO.	105	105					
4035	L/O/ELECT:00	BLOCK SHIELD	NO.	200	200					
4036	L/O/ELECT:00	INLET CONTACT	NO.	200	200					
4037	L/O/ELECT:00	POWER 24V	NO.	6	6					
4038	L/O/ELECT:00	INLET CONTACT SET +	NO.	190	190					
4039	L/O/ELECT:00	FUSE RL1-60/40	NO.	71	71					
4040	L/O/ELECT:01	FUSE RL1-60/30	NO.	16	16					
4041	L/O/ELECT:01	FUSE RL1-100/80	NO.	22	22					
4042	L/O/ELECT:01	TERMINAL D1	NO.	13	13					
4043	L/O/ELECT:02	TERMINAL D10	NO.	140	140					
4044	L/O/ELECT:02	FUSE SEAT RTD 200 RT.0-100	NO.	565	565					
4045	L/O/ELECT:02	CONNECTING PLATE D1-10	NO.	336	336					
4046	L/O/ELECT:02	T-SHAPPED RIGHT ANGLE RULER C50 PIECS	NO.	1	1					
4047	L/O/ELECT:03	SEALING GAS RAT OF TRANSFORMER	NO.	14	14					
4048	L/O/ELECT:03	SEALING RING TRANSFORMER	NO.	158	158					
4049	L/O/ELECT:03	SWITCH CABINET PLATE	NO.	20	20					
4050	L/O/ELECT:03	BUSHING OF TRANSFORMER	NO.	2	2					
4051	L/O/ELECT:03	OIL PUMP FOR TRANSFORMER YB 20-19/22T	NO.	1	1					
4052	L/O/ELECT:03	AC CONTACTOR CJ12-250/8	NO.	2	2					
4053	L/O/ELECT:03	BUSHING OF HV NEUTRAL 6ET.280	NO.	1	1					
4054	L/O/ELECT:03	ZRO HEAD HD-6	NO.	1	1					
4055	L/O/ELECT:03	CONNECTING BASE (MORE TYPES)	NO.	8	8					
4056	L/O/ELECT:04	OIL GUN ACTUATOR T Q2-300	NO.	2	2					
4057	L/O/ELECT:04	COMPERATING WIRE FBP	NO.	3	3					
4058	L/O/ELECT:04	MIXER J49-105	NO.	1	1					
4059	L/O/ELECT:04	MIXER J49-104	NO.	1	1					
4060	L/O/ELECT:04	INTAKE WATER LUB PUMP J-49-79	NO.	1	1					
4061	L/O/ELECT:04	ACID ROOM FAN 9J49-56	NO.	1	1					
4062	L/O/ELECT:04	ACID ROOM FAN 9J49-59	NO.	1	1					
4063	L/O/ELECT:04	INTAKE WATER CHANGE VALVE 9J 49-68	NO.	1	1					
4064	L/O/ELECT:05	FAN OF DRAIN POND 9J 49-65	NO.	1	1					
4065	L/O/ELECT:05	FAN OF BATTERY ROOM J49-31	NO.	1	1					
4066	L/O/ELECT:05	CIRCUIT PLATE FOR UPS A15.299, 401,0036	NO.	12	12					

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1	2	3	4	5	6	7	8	10	11	12
4067	../O/ELECT:05	ELECTRO THERMAL OVEN 1.5XW 480V 120C	NO.	1	1					
4068	../O/ELECT:05	THROTTLE DEVICE LGK Dg 311	NO.	2	2					
4069	../O/ELECT:05	BUTTON LA 10 -3H3 80V/5A	NO.	6	6					
4070	../O/ELECT:05	FAST FUSE RS3 500V/250A	NO.	18	18					
4071	../O/ELECT:06	FAST FUSE RS 8.800V/1400A	NO.	2	2					
4072	../O/ELECT:06	SILICON ELEMENT ZP-1000A/3200V	NO.	6	6					
4073	../O/ELECT:06	SILICON ELEMENT K-200A/1000V	NO.	15	15					
4074	../O/ELECT:06	FUSE RL1-40, 40A	NO.	6	6					
4075	../O/ELECT:06	FUSE SIGNALLER R+2-1000V	NO.	11	11					
4076	../O/ELECT:07	VISUAL OIL RING (3 types)	NO.	31	31					
4077	../O/ELECT:07	FILT NET	NO.	14	14					
4078	../O/ELECT:07	INSOLATOR (2 types)	NO.	23	23					
4079	../O/ELECT:07	PRESSURE CONTROLLER D500/7D	NO.	2	2					
4080	../O/ELECT:07	COIL 5 KD 520.437.3	NO.	1	1					
4081	../O/ELECT:07	COIL 5KD 520 317.3	NO.	2	2					
4082	../O/ELECT:07	TOOTH GASKET (3 types)	NO.	28	28					
4083	../O/ELECT:07	C.T 200 15A	NO.	9	9					
4084	../O/ELECT:07	C.T 2000 15A	NO.	18	18					
4085	../O/ELECT:08	SEALING GASKET FOR GENERATOR	NO.	1	1					
4086	../O/ELECT:08	BUSHING OF GENERATOR	NO.	1	1					
4087	../O/ELECT:08	PNEUMATIC CONTROL DEVICE BOX ZSL (GF) 03	NO.	3	3					
4088	../O/ELECT:08	INSULATION CONNECTOR	NO.	10	10					
4089	../O/ELECT:08	MOTOR Y 160L-415 KW 14160 rpm	NO.	2	2					
4090	../O/ELECT:08	MOTOR	NO.	1	1					
4091	../O/ELECT:09	RUBBER PLATE 240X455	NO.	4	4					
4092	../O/ELECT:09	OPERATION CABLE 79B-6978-1	NO.	5	5					
4093	../O/ELECT:09	OPERATION CABLE 79C-19337	NO.	9	9					
4094	../O/ELECT:09	MOTOR OPERATED ACTUATOR DKZ-540	NO.	1	1					
4095	../O/ELECT:09	VALVE ACTUATOR	NO.	4	4					
4096	../O/ELECT:09	CONTROL CABLE YJH	NO.	1	1					
4097	../O/ELECT:09	CONTROL CABLE XL-23-2-1	NO.	3	3					
4098	../O/ELECT:09	CONTROL CABLE XWM-1	NO.	1	1					
4099	../O/ELECT:10	OPERATING CABLE	NO.	1	1					
4100	../O/ELECT:10	ELECTRO POWER SWITCH GK-10	NO.	12	12					
4101	../O/ELECT:10	HEATER POWER BOX	NO.	1	1					
4102	../O/ELECT:10	FUSE SEAT RL1-60	NO.	26	26					

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1	2	3	4	5	6	7	8	10	11	12
4103	../O/ELECT:10	FUSE SEAT RL1-150	NO.	212	212					
4104	../O/ELECT:11	FAST FUSE RTO-100V / 100A	NO.	75	75					
4105	../O/ELECT:11	FAST FUSE RSO-500V / 320A	NO.	95	95					
4106	../O/ELECT:11	FUSE RSO-500V / 100A	NO.	20	20					
4107	../O/ELECT:11	FUSE RSO-500V / 80A	NO.	38	38					
4108	../O/ELECT:12	FUSE RL1-500V / 80A	NO.	4	4					
4109	../O/ELECT:12	FUSE RL1-380V / 60A	NO.	84	84					
4110	../O/ELECT:12	FUSE RL1-380V / 30A	NO.	53	53					
4111	../O/ELECT:12	FUSE RTD-380V / 80A	NO.	150	150					
4112	../O/ELECT:12	FUSE TS 50-500V / 16A	NO.	19	19					
4113	../O/ELECT:13	FUSE RJ-380V/20 4A	NO.	280	280					
4114	../O/ELECT:13	FUSE RT-380V/20A 10A	NO.	118	118					
4115	../O/ELECT:15	FUSE RTO-100 80A	NO.	30	30					
4116	../O/ELECT:15	FUSE RTO-100 380V/60A	NO.	80	80					
4117	../O/ELECT:15	FUSE RTO-100 30A	NO.	145	145					
4118	../O/ELECT:16	FUSE RTO-200 /150A	NO.	151	151					
4119	../O/ELECT:16	FUSE RTO- 400 /350A	NO.	26	26					
4120	../O/ELECT:16	TERMINAL D6	NO.	6	6					
4121	../O/ELECT:16	CU-RESISTANCE THERMOMETER WZG (for transformer)	NO.	4	4					
4122	../O/ELECT:17	GROUNDING INSULATOR (for transformer)	NO.	1	1					
4123	../O/ELECT:17	GLASS POT (for transformer)	NO.	1	1					
4124	../O/ELECT:17	GAS RELAY QJ2-80 (for transformer)	NO.	1	1					
4125	../O/ELECT:17	CABLE PROTECTOR (for isolation box / bus bar)	NO.	2	2					
4126	../O/ELECT:17	INSULATOR (for isolation box / bus bar)	NO.	18	18					
4127	../O/ELECT:17	CONTECTOR (MAGNET) C-18L 380V (for boiler feed pump)	NO.	2	2					
4128	../O/ELECT:17	CABLE CS X1.5	mtrs	100	100					
4129	../O/ELECT:17	THYRESTOR MODULE (THYM 75 AMY)	NO.	1	1					
4130	../O/ELECT:18	THYRESTOR MODULE ETN 85-050-300V/300A	NO.	1	1					
4131	../O/ELECT:18	FUSE C3NE 8-020 600V/80A	NO.	3	3					
4132	../O/ELECT:18	FUSE C3NA3-21 500V/35A	NO.	2	2					
4133	../O/ELECT:18	FUSE C3NE3-8 -022 660V/125A	NO.	8	8					
4134	../O/ELECT:18	FUSE C3NE -021 660V/100A	NO.	1	1					
4135	../O/ELECT:18	SPECIAL PACKAGE TECTO 506	NO.	12	12					
4136	../O/ELECT:18	SPECIAL PACKAGE TECTO 7/2	NO.	36	36					
4137	../O/ELECT:18	CHELL VASELINE (8420)	NO.	7	7					
4138	../O/ELECT:18	MOLYKETE (2)	NO.	7	7					

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4139	./O/ELECT:19(	FINALUM (812)	NO.	14	14					
4140	./O/ELECT:19	INDICATE LEAK	NO.	1	1					
4141	./O/ELECT:19:	TRANSFORMER OIL FOR FS6	NO.	57	57					
4142	./O/ELECT:19:	MOMENT METER	NO.	2	2					
4143	./O/ELECT:19-	RELAY QFJ-101 / QFG1	NO.	4	4					
4144	./O/ELECT:19:	CURRENT DEVIDER (10A)	NO.	2	2					
4145	./O/ELECT:19(	CURRENT DEVIDER (50A)	NO.	2	2					
4146	./O/ELECT:19'	CURRENT DEVIDER (100A)	NO.	1	1					
4147	./O/ELECT:19:	CURRENT DEVIDER (200A)	NO.	3	3					
4148	./O/ELECT:19'	CURRENT DEVIDER (300A)	NO.	1	1					
4149	./O/ELECT:20	CURRENT DEVIDER (750A)	NO.	1	1					
4150	./O/ELECT:20:	CURRENT DEVIDER (1000A)	NO.	1	1					
4151	./O/ELECT:20:	CURRENT DEVIDER (2000A)	NO.	1	1					
4152	./O/ELECT:20-	CURRENT DEVIDER (3000A)	NO.	1	1					
4153	./O/ELECT:20(	BREAKER ARC SHIELD (medium)	NO.	4	4					
4154	./O/ELECT:20'	BREAKER ARC SHIELD (big)	NO.	4	4					
4155	./O/ELECT:20:	BREAKER ARC SHIELD (small)	NO.	4	4					
4156	./O/ELECT:20'	CABLE CONNECTION	NO.	1	1					
4157	./O/ELECT:21(	OIL NET	NO.	4	4					
4158	./O/ELECT:21	AIR BLEEDER CORE OF CYCLE	NO.	20	20					
4159	./O/ELECT:21:	WIRE (item 01 . 19) for by pass	NO.	30	30					
4160	./O/ELECT:21:	COIL	NO.	2	2					
4161	./O/ELECT:21'	CONNECTING NUT	NO.	12	12					
4162	./O/ELECT:21:	ELECTRIC CONNECTOR	NO.	15	15					
4163	./O ELECT-22	CONNECTOR (012.006 Dg 20)	NO.	1	1					
4164	./O/ELECT:22:	ELECTRICAL OPERATED SET	NO.	5	5					
4165	./O/ELECT:22(	INSULATING PLATE FOR GENERATOR	NO.	1	1					
4166	./O/ELECT:23(	BOLT HEATING ROD 1.75 KW	NO.	13	13					
4167	./O/ELECT:23	BOLT HEATING ROD 4 KW	NO.	7	7					
4168	./O/ELECT:23:	BOLT HEATING ROD 2.3 KW	NO.	15	15					
4169	./O/ELECT:23'	ANGULAR PLATE	NO.	10	10					
4170	./O/ELECT:23:	OPERATING CUBICAL OF CONDENSER PUMP	NO.	1	1					
4171	./O/ELECT:23'	MAGNET STARTER (QC 12-2)	NO.	5	5					
4172	./O/ELECT:24:	CONNECTOR (dia= 25)	NO.	2	2					
4173	./O/ELECT:24:	TERMINAL BOX	NO.	18	18					
4174	./O/ELECT:24:	OPERATING SET (QFD-0700)	NO.	1	1					

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4175	../O/ELECT:24	AMPLIFIER (DZ-3110)	NO.	8	8					
4176	../O/ELECT:25	POWER SET 424 V17A	NO.	2	2					
4177	../O/ELECT:25	MEASURE SET	NO.	1	1					
4178	../O/ELECT:25	ALARM	NO.	1	1					
4179	../O/ELECT:25	MEASURE PLATE	NO.	8	8					
4180	../O/ELECT:25	DC RELAY JT3-31 110 V	NO.	1	1					
4181	../O/ELECT:26	RELAY DX-15 TH/S, 0.025A	NO.	2	2					
4182	../O/ELECT:26	RELAY ZT3 - 3C/8	NO.	3	3					
4183	../O/ELECT:26	RELAY (LDC-2)	NO.	1	1					
4184	../O/ELECT:26	CONNECTOR CJ10-80 80A	NO.	1	1					
4185	../O/ELECT:26	TEMPERATURE CONTROL METER (XST-102)	NO.	3	3					
4186	../O/ELECT:27	PRESSURE METER (10 Kg/Cm2)	NO.	2	2					
4187	../O/ELECT:27	DIGITAL TUBE	NO.	2	2					
4188	../O/ELECT:27	MOTOR VDF-WZ-0.55 KW	NO.	1	1					
4189	../O/ELECT:27	CURRENT METER (44 L1-A 100/5)	NO.	1	1					
4190	../O/ELECT:27	PRESSURE METER (6 Kg/Cm2, 2 PCO3)	NO.	1	1					
4191	../O/ELECT:27	H2 BOTTLE	NO.	2	2					
4192	../O/ELECT:27	ACID METER	SET	1	1					
4193	../O/ELECT:28	HYDRAZINE MONITOR E/L 7830	SET	1	1					
4194	../O/ELECT:28	HYDRAZINE	SET	1	1					
4195	../O/ELECT:28	TIME RELAY (DS 122 220V)	NO.	1	1					
4196	../O/ELECT:28	CIRCUIT BREAKER HFB 150/330 380V, 15A	NO.	1	1					
4197	../O/ELECT:28	COMBINATION SWITCH HZ 10-10/3	NO.	3	3					
4198	../O/ELECT:28	COMBINATION SWITCH HZ 10-10/1	NO.	10	10					
4199	../O/ELECT:29	MIST FEELING FIRE PROBE, FJ 2701 241 AM-3uc1 (DC24V)	NO.	20	20					
4200	../O/ELECT:29	SOLENOID VALVE Q23XDC	NO.	1	1					
4201	../O/ELECT:29	SI-ELEMENT (SILICON)	NO.	1	1					
4202	../O/ELECT:29	RIVIT (dia= 3X3)	NO.	375	375					
4203	../O/ELECT:30	NEEDLE PLUG (FOR MAKING H2)	NO.	3	3					
4204	../O/ELECT:30	SPRING (FOR MAKING H2)	NO.	4	4					
4205	../O/ELECT:30	CONNECTOR (FOR MAKING H2)	NO.	5	5					
4206	../O/ELECT:30	CALIBRATION (9433)	NO.	1	1					
4207	../O/ELECT:30	ELECTRIC WIRE	NO.	75	75					
4208	../O/ELECT:31	CABLE BRACHING BOX m-Fic	NO.	5	5					
4209	../O/ELECT:31	POWER BOX FOR DESK SET	NO.	2	2					
4210	../O/ELECT:31	MICRO PRESSURE CONTROLLER ULTRA SAMI VEGNSON 5	NO.	10	10					

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SENIOR STORE KEEPER

ALI MURAD KANDHRO
ASSISTANT MANAGER STORES

ASADULLAH MALKANI .
AUDIT ASSTT:/STOCK VERIFIER .

S No.	Item Code Number	Description of Article/Item	Unit	STOCK		DIFFERENCE in Items/Articles		BOOK VALUE		Remarks
				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4211	L/O/ELECT:31(	ULTRA SAMI TRANSDUCER VEGNSON 83 FA	NO.	12	12					
4212	L/O/ELECT:31'	COIL FOR GENERATOR	NO.	4	4					
4213	L/O/ELECT:31{	SPARE PARTS OF TOOL OF DIESEL GENERATOR	NO.	18	18					
4214	L/OELEC-322	MOTOR	NO.	2	2					
4215	L/O/ELECT:32	F8S BOTTLE CYLINDER	NO.	5	5					
4216	L/O/ELECT:32-	CABLE 10X0.75	mtrs	444	444					
4217	L/O/ELECT:32(	MOTOR	NO.	1	1					
4218	L/O/ELECT:32'	MOTOR	NO.	1	1					
4219	L/O/ELECT:33	PLUG ELEMENT	NO.	1	1					
4220	L/O/ELECT:33	TIME RELAY (DS 122 220V)	NO.	1	1					
4221	L/O/ELECT:33-	CALIBRETR	NO.	4	4					
4222	L/O/ELECT:33(	CLENDER	NO.	5	5					
4223	SERV:MAT:01	LT BUSHING FOR TRANSFORMER 100KVA	SET	3	3					
4224	SERV:MAT:02	LT BUSHING FOR TRANSFORMER 200KVA	SET	3	3					
4225	SERV:MAT:03	HT BUSHING FOR TRANSFORMER	SET	9	9					
4226	SERV:MAT:04	TRANSFORMER OIL USED	Liter	3,430	3,430					
4227	SERV:MAT:05	DISTRIBUTION TRANSFORMER 50 KVA USED	NO.	11	11					
4228	SERV:MAT:06	DISTRIBUTION TRANSFORMER 100 KVA USED	NO.	21	21					
4229	SERV:MAT:07	DISTRIBUTION TRANSFORMER 200 KVA USED	NO.	3	3					
4230	SERV:MAT:08	DAMPING DRAWER	NO.	1	1					
4231	SERV:MAT:09	FIXING CIRCUIT DRAWER	NO.	2	2					
4232	SERV:MAT:10	PHASE SHIFTER DRAWER	NO.	1	1					
4233	SERV:MAT:11	POWER SUPPLY DRAWER	NO.	3	3					
4234	SERV:MAT:13	TRANSFORMER DRAWER	NO.	1	1					
4235	SERV:MAT:14	VOLTAGE ERROR DETECTOR DRAWER	NO.	1	1					
4236	SERV:MAT:15	RISN MOULDED DRY TRANSFORMER 400 KVA	NO.	1	1					
4237	SERV:MAT:16	PHASE TESTER YF-75	NO.	1	1					
4238	SERV:MAT:17	DIGITAL TECHO METER DT 2234A	NO.	1	1					
4239	SERV:MAT:18	EARTH TESTOR (MOULDED 4102)	NO.	1	1					
4240	SERV:MAT:19	FREQUENCY D65 NO.215	NO.	1	1					
4241	SERV:MAT:20	GROUNDING RESISTER TESTER 2C-8	NO.	1	1					
4242	SERV:MAT:21	POWER FACTOR METER D 66 - 515	NO.	1	1					
4243	SERV:MAT:22	MEDIUM FREQUENCY GENERATOR BPT-22	NO.	1	1					
4244	SERV:MAT:23	AVO METER (MK-7)	NO.	1	1					
4245	SERV:MAT:24	AMPERE METER 0-1000 C-21	NO.	1	1					
4246	SERV:MAT:26	TOPY LIGHT SHADE W/O BULB	NO.	13	13					

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1	2	3	4	5	6	7	8	10	11	12
4247	SERV:MAT:27	REVERSE POWER RELAY DQ WP D1 HD SP/K9 Eo715	NO.	1	1					
4248	SERV:MAT:28	UNDER FREQUENCY RELAY DQ FP 4NB SP/K9 Eo716	NO.	1	1					
4249	SERV:MAT:29	THYRESTER CONTROLLER PCS SIX PULSE 09-27-52-010 1353 SP.NO. 966 940	NO.	1	1					
4250	SERV:MAT:30	PERCENTAGE DIFFERENTIAL RELAY DQDRC1 WG SP K7Po398T MFD 1988	NO.	1	1					
4251	SERV:MAT:31	PERCENTAGE DIFFERENTIAL RELAY DQDRC1 WG K7Po397T MFD 1988	NO.	1	1					
4252	SERV:MAT:32	PERCENTAGE DIFFERENTIAL RELAY DQDRC1 WG K7Po399T MFD 1988	NO.	1	1					
4253	SERV:MAT:33	VOLTAGE BALANCE RELAY SGVH 12 PH-1 8B65003T MFD 1988	NO.	1	1					
4254	SERV:MAT:34	VOLTAGE BALANCE RELAY SGVH 12 PH-1 8B65004T MFD 1988	NO.	1	1					
4255	SERV:MAT:35	UNDER FREQUENCY RELAY DQ FP 4NB K7Po 388T MFD 1988	NO.	1	1					
4256	SERV:MAT:36	DISTANCE RELAY DQZRAZNB K7Po 383T MFD 1988	NO.	1	1					
4257	SERV:MAT:37	DISTANCE RELAY DQZRAZNB K7Po 382T MFD 1988	NO.	1	1					
4258	SERV:MAT:39	PERCENTAGE DIFFERENTIAL RELAY DQDRD1 WG K7Po379T MFD 1988	NO.	1	1					
4259	SERV:MAT:40	PERCENTAGE DIFFERENTIAL RELAY DQDRD1 WG K7Po378T MFD 1988	NO.	1	1					
4260	SERV:MAT:41	PERCENTAGE DIFFERENTIAL RELAY DQDRE2 pv K7Po376T MFD 1988	NO.	1	1					
4261	SERV:MAT:42	PERCENTAGE DIFFERENTIAL RELAY DQDRE2 pv K7Po377T MFD 1988	NO.	1	1					
4262	SERV:MAT:43	PERCENTAGE DIFFERENTIAL RELAY DQDRE2 pv K7Po375T MFD 1988	NO.	1	1					
4263	SERV:MAT:44	NEGATIVE PHASE SEQUENCE OVER CURRENT RELAY DQAWK1PD K7P0385 MFD 1988	NO.	1	1					
4264	SERV:MAT:45	LOSS OF FIELD RELAY DQ2RC1NB K7P0384T MFD 1988	NO.	1	1					
4265	SERV:MAT:46	WINDING GROUND RELAY DQVRJ1NB K7Po396 MFD 1988	NO.	1	1					
4266	SERV:MAT:48	VOLTAGE BALANCE RELAY DQERA1AB K7P 0394T MFD 1988	NO.	1	1					
4267	SERV:MAT:49	VOLTAGE BALANCE RELAY DQERA1HB K7P 0395T MFD 1988	NO.	1	1					
4268	SERV:MAT:50	UNDER VOLTAGE RELAY DQVRB1HA K8A 1998 MFD 1988	NO.	1	1					
4269	SERV:MAT:51	UNDER VOLTAGE RELAY DQVRB1HA K8A 1999 MFD 1988	NO.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4270	SERV:MAT:52	NEGATIVE PHASE SEQUENCE OVER CURRENT RELAY DQAJF1HH K7P0386 MFD 1988	NO.	2	2					
4271	SERV:MAT:53	OVER CURRENT RELAY DQAJB1HJ K8e 2028T MFD 1988	NO.	2	2					
4272	SERV:MAT:54	OVER CURRENT RELAY DQAJB1HJ K8c 2024T MFD 1988	NO.	1	1					
4273	SERV:MAT:55	OVER CURRENT RELAY DQAJB1HJ K8c 2025T MFD 1988	NO.	1	1					
4274	SERV:MAT:56	OVER CURRENT RELAY DQAJB1HJ K8c 2026T MFD 1988	NO.	1	1					
4275	SERV:MAT:57	REVERSE POWER RELAY DQWPD 1HD K7Po387T MFD 1988	NO.	1	1					
4276	SERV:MAT:58	OVER FREQUENCY RELAY DQFPA4NB K7P 0389T MFD 1988	NO.	2	2					
4277	SERV:MAT:59	OVER CURRENT RELAY DQAJB1HH K8A 1991T MFD 1988	NO.	1	1					
4278	SERV:MAT:60	OVER CURRENT RELAY DQAJB1HH K8A 1992T MFD 1988	NO.	1	1					
4279	SERV:MAT:61	OVER CURRENT RELAY DQAJB1HH K8A 1993T MFD 1988	NO.	1	1					
4280	SERV:MAT:62	OVER CURRENT RELAY DQAJB1HH K8A 1990T MFD 1988	NO.	1	1					
4281	SERV:MAT:63	RELAY WITHOUT NEW PLATE SIMILAR T =DQAJB1HH	NO.	2	2					
4282	SERV:MAT:64	RELAY WITHOUT NEW PLATE SIMILAR T =DQAJB1HJ	NO.	2	2					
4283	SERV:MAT:65	EMPTY BOXES	NO.	7	7					
4284	SERV:MAT:66	DAMAGE RELAY	NO.	4	4					
4285	SERV:MAT:67	GLAND SEALING RING OF GENERATOR SEALING	Set	1	1					
4286	SERV:MAT:68	DIRECTIONAL GROUND RELAY DQWPA 1HG K9G 2233T, K8A 0336, 38,47	NO.	4	4					
4287	SERV:MAT:69	OVER VOLTAGE RELAY DQVWJ 2NT KgE 0725-T	NO.	1	1					
4288	SERV:MAT:70	VOLTAGE ERROR DETECTOR PCB 6EA-369-134 (8EA-064-201)	NO.	1	1					
4289	SERV:MAT:71	SIGNAL MIRE PCB 6EA-369-135(8EA-064-423)	NO.	1	1					
4290	SERV:MAT:72	FIRING PCB 6EA-369-303(8EA-064-415)	NO.	1	1					
4291	SERV:MAT:73	POWER SUPPLY PCB 6EA-369-138 (8EA-064-205)	NO.	1	1					
4292	SERV:MAT:74	DAMPING PCB 6EA-369-303 (8EA-064-205)	NO.	1	1					
4293	SERV:MAT:75	U.P.S CARD A106	NO.	1	1					
4294	SERV:MAT:76	U.P.S CARD A108	NO.	1	1					
4295	SERV:MAT:77	RECTIFIRE PC6 A101	NO.	1	1					
4296	SERV:MAT:78	BRUSH HOLDER	NO.	45	45					
4297	SERV:MAT:79	LOW FREQUENCY RELAY SGP-1	NO.	1	1					
4298	SERV:MAT:80	REVERSE POWER RELAY LNG-1	NO.	1	1					
4299	SERV:MAT:81	SILICON ZP-200 A	NO.	1	1					
4300	SERV:MAT:82	GENERATOR BACK UP RELAY LZ-14Th	NO.	1	1					
4301	SERV:MAT:83	GENERATOR PHASE SEQUENCE NEGATIVE CURRENT RELAY LFL-6	NO.	1	1					

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				As per Stock Book on the date of Physical Check	As actually counted / measured or weighted	Shortage	Surplus	Shortage	Surplus	
1	2	3	4	5	6	7	8	10	11	12
4302	SERV:MAT:84	FUSE HOLDER	NO.	214	214					
4303	SERV:MAT:85	PANTHER CONDUCTOR HT	NO.	219	219					
4304	SERV:MAT:86	ANT CONDUCTOR LT	NO.	50	50					
4305	SERV:MAT:88	RESISTER ZG-11-50	NO.	5	5					
4306	SERV:MAT:89	SURGE ARRESTOR TYPE 13EF 1Q72UC 7.2 KV	NO.	130	130					
4307	SERV:MAT:92	BOILER FEED PUMP MOTOR COUPLING	NO.	1	1					
4308	SERV:MAT:93	GLASS FUSE HOLDER	NO.	8	8					
4309	SERV:MAT:94	Generator Bearing Dia 180mm	NO.	1	1					
4310	SERV:MAT:95	Charging Motor For ME Breaker	NO.	20	20					
4311	SERV:MAT:96	Bearing bush For CWP Motor (Top Plan Lead)	NO.	11	11					
4312	SERV:MAT:97	Bearing bush For CWP Motor (Bottom)	NO.	4	4					
4313	SERV:MAT:98	Starting Transformer Cooling Fan Motor	NO.	1	1					
4314	SERV:MAT:99	Condensate Motor Starter Assy:	NO.	1	1					
4315	SERV:MAT:10	Nut And Bolt 1.5"	NO.	50	50					
4316	SERV:MAT:10	Power Cable 95 x 3 Core	mtrs	1,760	1,760					
4317	SERV:MAT:10	Presure Relief Valve	NO.	1	1					
4318	SERV:MAT:10	Power Cable 240mm	mtrs	593	593					
4319	SERV:MAT:10	Voltage Circuit Breaker Assy:	NO.	1	1					
4320	SERV:MAT:11	Vaccume Circuit Breaker	NO.	1	1					
4321	SERV:MAT:11	DC Power Supply	NO.	1	1					
4322	SERV:MAT:11	DC Power Supply	NO.	1	1					
4323	SERV:MAT:11	Rotter BFP Motor	NO.	4	4					
4324	SERV:MAT:11	S S Seleve With Washer	NO.	58	58					
4325	SERV:MAT:11	Rotter Winding M/S Hanger	NO.	60	60					
4326	SERV:MAT:11	Pressure Testing Nipple	NO.	9	9					
4327	SERV:MAT:12	J Type Spacer	NO.	65	65					
4328	SERV:MAT:12	Top Block EE + I.E	NO.	8	8					
4329	SERV:MAT:12	Bottom Block EE + I.E	NO.	14	14					
4330	SERV:MAT:12	Glass Fiber Clamp	NO.	8	8					
4331	SERV:MAT:12	Rotter Lead Connecting Bush Off Size	Set	3	3					
4332	SERV:MAT:12	Glass Fiber Block For Water Heater	NO.	10	10					
4333	SERV:MAT:13	Glass Fiber Blind Washer	NO.	200	200					
4334	SERV:MAT:13	Glass Fiber Lock	NO.	48	48					
4335	SERV:MAT:13	Glass Fiber Bush Large	NO.	8	8					
4336	SERV:MAT:13	Glass Fiber Bush Small	NO.	2	2					
4337	SERV:MAT:13	Clamp Bond (Baffer)	NO.	90	90					

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1	2	3	4	5	6	7	8	10	11	12
4338	SERV:MAT:13	Slot and Wedge	NO.	90	90					
4339	SERV:MAT:13	Hammer	NO.	3	3					
4340	SERV:MAT:13	Silicon Ractifier Set	NO.	2	2					
4341	SERV:MAT:13	De excitation field breaker	NO.	1	1					
4342	SERV:MAT:14	Distribution Tarnsformer 25KV	NO.	3	3					
4343	SERV:MAT:14	Stater Of BFP Motor 32 KW	NO.	3	3					
4344	SERV:MAT:14	Current Transformer ZRZB-2	NO.	3	3					
4345	SERV:MAT:14	Generator Curent Transformer 12000/5	NO.	4	4					
4346	SERV:MAT:14	Main Lead Assy: With Bushing	NO.	6	6					
4347	SERV:MAT:14	Coupling Of CW Pump	NO.	1	1					
4348	SERV:MAT:14	Main Exciter Cooler	NO.	1	1					
4349	SERV:MAT:14	Rocker Of Generator	Set	1	1					
4350	SERV:MAT:14	PMG 46kva 161V AC	NO.	1	1					
4351	SERV:MAT:14	Dog Conductor (In Pieces)	mtrs	990	990					
4352	SERV:MAT:15	GR Fan Motor Stator	NO.	1	1					
4353	SERV:MAT:15	PVC Cable 4 Core In Pieces 60 64	mtrs	346	346					
4354	SERV:MAT:15	PVC Cable 2 Core In Pieces 7 52	mtrs	2,265	2,265					
4355	SERV:MAT:15	Complete Condene Set Motor 250 kw	Nos	2	2					
4356	1017-12	Main Switch 5.5 Kv	No	2	2					
4357	1017-17	Iron Sheddel 3/4"	Dzn	52	52					
4358	1017-22	Topi Light Shad	No	5	5					
4359	1017-46	Globe	No	427	427					
4360	1017-49	Bulb Rod	No	240	240					
4361	1017-52	Round Block Wooden	No	393	393					
4362	1017-57	Bulb Shad	No	480	480					
4363	1017-62	Wooden Log (Balli)	No	100	100					
4364	1017-63	Empty Sand Bag	No	4,575	4,575					
4365	03-1004-0001	Oil T-46	Ltrs.	24,499	24,499					
4366	03-1004-0002	Oil T-32	Ltrs.	4,389	4,389					
4367	03-1004-0003	Turbine Oil T-68	Ltrs.	627	627					
4368	03-1004-0004	SH-Tellus C-22	Ltrs.	210	210					
4369	03-1004-0005	PBS KP Oil 193 VG 150	Ltrs.	210	210					
4370	03-1004-0007	KP 150 VG320	Ltrs.	2,100	2,100					
4371	03-1004-0010	SH Tellus 100	Ltrs.	210	210					
4372	03-1004-0011	SH Tellus C-32 (Morlina-32)	Ltrs.	1,463	1,463					
4373	03-1004-0017	Gear Oil 90 (Shell Sirax EP-90)	Ltrs.	3,360	3,360					

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1	2	3	4	5	6	7	8	10	11	12
4374	03-1004-0022	Transformer Oil	Ltrs.	2,255	2,255					
4375	03-1004-0034	Shell Rimula C-40 (Deo 2000 SAE-40)	Ltrs.	418	418					
4376	03-1004-0037	Lube Oil Tellus oil 46	Ltrs.	418	418					
4377	03-1004-0040	Lube Oil KP-193 Omella 320 (210 Litters Drum)	Ltrs.	209	209					
4378	03-1004-0041	HiLux Plus-32	Ltrs.	210	210					

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MEASUREMENT OF RFO MAIN / SERVICE AND HSD OIL TANKS
THERMAL POWER STATION, JAMSHORO
31-10-2024 AT 2400 HRS

MAIN TANKS

Description	Level by Dip	Volumetric Quantity	Mass Quantity by Weight
	Meter	K.L	Metric Tons
R.O Storage Tank - 1	5.640	8482.640	8115.341
R.O Storage Tank - 2	1.110	1558.842	1491.344
R.O Storage Tank - 3	1.120	1573.682	1505.541
R.O Storage Tank - 4	1.120	1573.682	1505.541
		13188.846	**12617.767**

SERVICE TANKS

R.O Service Tank - 1	1.500	62.328	59.629
R.O Service Tank - 2	3.000	148.100	141.687
R.O Service Tank - 3	3.300	175.415	167.819
R.O Service Tank - 4	2.500	127.020	121.520
		512.863	**490.528**

TOTAL (Main + Service Tanks)	13701.709	13108.295
TOTAL USEABLE STOCK (excluding 6000 M.Tons Dead Stock)		**7108.295**

MEASUREMENT OF HSD OIL SERVICE TANKS

Description	Level by Dip	Volumetric Quantity
	Meter	Kilo Liters
H.S.D Tank - 1	1.740	74.252
H.S.D Tank - 2	0.850	30.162
H.S.D Tank - 3	0.200	23.033
H.S.D Tank - 4	0.260	24.374
Total HSD OIL STOCK		**151.821**

NOTE. As per Store section, pipeline quantity of 416.428 M.Tons of Furnace Oil and 6000 Litres of HSD Oil is available is lines. Dead stock of 6000 M.Tons of furnace oil is available in main oil tanks.

(Irshad Ali)
Add Deputy Manager (F&C)
Member

(Shamsul Arfin)
Assistant Resident Engineer (O)
Member

On Leave
(Mujahid Hussain Channa)
Audit Officer
Member

(Manzoor Ahmed Memon))
Add:Manager.
Convener

Stock Position Of Chemical Labaoratory Equipment

S#	Name of Equipment	Unit	Quantity
1	Flash Point Tester	No.	2
2	Visco Meter Water Bath	No.	1
3	Conradson Carbon	No.	1
4	Water Cotents Measument Apparatus	No.	2
5	Pour Point Tester	No.	1
6	Centrifuge Machine	No.	1
7	Sulfur Contents Testing Meter	No.	2
8	Calori Meter	No.	2
9	Analytical Electronic Balance	No.	2
10	Dust Measuring Equipment	No.	1
11	Flow Vilocity Measuring Equipment	No.	1
12	Sulfur Oxide Measuring Equipment	No.	1
13	Nitrogen Oxide Measuring Equipment	No.	1
14	Drawing Oven	No.	2
15	Megnatic Sterior	No.	1
16	Shaker	No.	1
17	Jar Tester Apparatus	No.	1
18	Micro Scope	No.	1
19	Noise Level Meter	No.	1
20	Sound & Vibration Level Recorder	No.	1
21	Pour & Cloud Point tester	No.	1
22	Automatic Digital Muffle Furnace	No.	1
23	Analytical Balance	No.	1
24	Precision Balance	No.	1
25	Testo Flue Gas Analyzer	No.	1
26	Conductivity Meter	No.	6
27	PH Meter	No.	2
28	Moisture Meter Karl Fischer	No.	3
29	Spectrophotometer	No.	3
30	Pentomeg Dosing Skid	No.	4
31	Aci Dew Point tester	No.	1
32	Muffle Furnace	No.	1
33	Calori Meter 6400 Parr	No.	1

Addl. Manager (Chemical)
Thermal Power Station Jamshoro
JPCL, Jamshoro.

CamScanner

Stock Position Of Lab Chemicals

S#	Name of Chemical	Unit	Total Quantity
1	Hydrochloric Acid	Liters	3.4
2	Ammonium Molybdate	kg	5.2
3	Oxalic Acid	kg	5.2
4	Ammonium Iron Sulphate	grams	586
5	Sulfuric Acid	Liters	16
6	Stanious Chloride	kg	1.14
7	Methanol	liters	10.5
8	Ammonium Chloride	grams	820
9	Ammonium Hydroxide	liters	6.56
10	E.D.T.A	kg	1.24
11	Silver Nitrate	grams	100
12	Sodium Chloride	grams	800
13	Potassium Dichromote	grams	600
14	Pyrogallol	grams	140
15	Xylene	Liters	20
16	Chloroform	Liters	10
17	Di-Methyle Amino Benzaldhyde	Grams	110
18	Potassium Hydroxide	kg	1.876
19	PH Indicator	Liters	2
20	Sodium Sulfide	grams	900
21	Tartaric Acid	grams	400
22	Hydrazine Hydrochloride	grams	83
23	Aqua Combitrant	Liters	1
24	Phenolphthlein	grams	100
25	Hydroxyle Amine Hydrochloride	grams	450
26	Mercuric	grams	300
27	Potassium Iodide	grams	390
28	Tissue Paper Roll	No.	70
29	Rubber Hand Cloves	No.	300
30	Goggles	No.	12
31	Ethanol	Liters	2.4

31/12/24.

Addl. Manager (Chemical)
Thermal Power Station Jamshoro
JPCL, Jamshoro.

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Stock Position Of Bulk Chemicals

S.NO:	NAME OF CHEMICALS	Unit	Total Quantity
1	Aluminum Sulphate	M.Ton	66.76
2	Hydrochloric Acid	M.Ton	80.93
3	Caustic Soda (Liq:)	M.Ton'	136.24
4	Hydrazine Hydrate	KG	200.00
5	Tri-Sodium Phspahte	KG	1260.00
6	Hexameta Phosphate	KG	100.00
7	Polyacrylamide	KG	84.10
8	Carbon Dioxide gas	kg	3046.00
9	Ammonia gas	kg	920.00
10	Nitrogen gas	Cylin:	15.00
11	Strong Cation Resins	Liters	125.00
12	Strong Anion Resins	Liters	125.00
13	Fuel Oil Additive	KG	1700.00

31/12/24

Addl. Manager (Chemical)
Thermal Power Station Jamshoro
JPCL, Jamshoro.

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APPENDIX – 04:

MISCELLANEOUS DATA

LOT 1: TPS JAMSHORO (880MW)

JAMSHORO POWER COMPANY LIMITED (GENCO-I)
WEIGHT OF MAJOR EQUIPMENTS

TURBINE UNITNO.1 THERMAL POWER STATION, JAMSHORO

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
1	HP Turbine.(Barrel Type) FUJI Electric Co; Ltd. Japan	Tandem Compound 3- casing Double Flow exhaust, reaction, reheat, condensing type. Maximum Continuous Ratings: 250 MW Main Steam Pressure: 169 kg/cm²g Main Steam Temperature: 538°c Reheat steam Pressure: 38.81kg/cm²ab. Reheat steam Temperature: 538°c Exhaust Pressure: 132mmHgabs	TA-1101 Confirmatory Document Data sheet Lot I Volume II DT-3	01	52000	
2	IP Turbine(Single Flow double Shell) FUJI Electric Co; Ltd. Japan	Tandem Compound 3- casing Double Flow exhaust, reaction, reheat, condensing type. Maximum Continuous Ratings: 250 MW Main Steam Pressure: 169 kg/cm²g Main Steam Temperature: 538°c Reheat steam Pressure: 38.81kg/cm²ab. Reheat steam Temperature: 538°c Exhaust Pressure: 132mmHgabs	TA-1102 Confirmatory Document Data sheet Lot I Volume II DT-3	01	69000	
3	LP Turbine (Horizontally –Split comprised three Shells) FUJI Electric Co; Ltd. Japan	Tandem Compound 3- casing Double Flow exhaust, reaction, reheat, condensing type. Maximum Continuous Ratings: 250 MW Main Steam Pressure: 169 kg/cm²g Main Steam Temperature: 538°c Reheat steam Pressure: 38.81kg/cm²ab Reheat steam Temperature: 538°c Exhaust Pressure: 132mmHgabs	TA-1103 Confirmatory Document Data sheet Lot I Volume II DT-3	01	154000	
4	Main Oil Pump (MOP) FUJI Electric Co; Ltd. Japan	Type: Turbine driven Centrifugal type Casing Material: Gray Cast Iron Impeller : 16%Stainless Steel Bearings: Carbon Steel with White Metal Bearing Pedestal: Caron Steel	TA-3016 Confirmatory Document Data sheet Lot I Volume II DT-7	01	360	

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
5	Auxiliary Oil Pump (AOP) Yoshikura Kogyo Co;LTD	Type: Vertical Centrifugal Type USE-V Capacity: 360m³/h Liquid: Turbine oil ISO VG46 Material for main parts Casing : Cast Iron Impeller : Bronze casting Shaft: Carbon Steel Motor: A.C (Motor) (132 KW)	TF-2003aF As built drawing 21/37	01	1700	
6	Emergency Oil Pump (EOP) Yoshikura Kogyo Co.Ltd Japan	Type: Vertical Centrifugal Type USE-V Capacity: 71m³/h Motor: D.C (Motor) (7.5 KW)	TF-2004aF As built drawing 21/37	01	600	
7	Jacking Oil Pump (JOP) Uchida oil hydraulics	Piston Pump Type: Plunger Type A2F160R2P3 Weight:1000 k.g Motor: A.C (Motor) (55 KW) Totally Enclosed fan cooled type	TF-2007aF As built drawing 21/37	01	1000	
8	Oil Cooler FUJI Electric Co; Ltd. Japan	Type: Shell and Tube Type Cooling Surface: 400m² No. of Tubes: 864 Material : Aluminium Brass Low- Finned Tube 19 Fins/inch: O.D =22.23mm Root Dia= 19.05 Thickness: 1.24 Length :2710mm		02	Weight Empty: 6200	
9	Oil conditioner SANMI KOGYO Tokyo Japan	Type : Stationary Type Capacity: 7000 l/h Motor Specification: Output 2.2kw Pole:6 Speed 1000rpm	GB-2003 As built drawing 21/37	01	2100 k.g Gear Pump: 36 Base: 23 Motor: 44	
10	Main oil tank vapour extractor IZUMI SOFUKI CO;LTD	Type: Blower Type Capacity: 13.1m³/min Motor: A.C Motor (0.75 KW)	ST744328 As built drawing 21/37	01	54	
11	High pressure turbine exhaust check valve Make: OKANO Valve manufacturing co.	Cold reheat pipe non return valve	TB-3007	01		
12	Gland steam exhauster Make: IZUMI SOFUKI Co, ltd Model: ITF-21/2EC	Type: Blower type Capacity: 8 m³/min Motor: A.C Motor (1.5 KW)	TC-1021 As built drawing 21/37	02	100	
13	Main stop valve (with bypass valve) FUJI Electric Co; Ltd. Japan		TB-3001	04		
14	Main Steam Control Valve FUJI Electric Co; Ltd. Japan		TB-3002	04		

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
15	Intercept Control Valve FUJI Electric Co; Ltd. Japan		TB-3003	02		
16	Reheat Stop Valve FUJI Electric Co; Ltd. Japan		TB-3004	02		
17	Surface Condenser Hitachi co; ltd	**Condenser Tubes:** 1.Condensing Zone Material: Aluminium Brass O.D: 25.4mm Thickness: 1.0mm Length: 9600mm Nos. of Tubes: 18450 2.Air Cooling Zone Material: Titanium O.D: 25.4mm Thickness: 0.5mm Length: 9600mm Nos. of Tubes: 380 Condenser Surface: 14420 m²	TC-2001	01	Approx: weight: Dry: 360 Tons	
18	Gland Steam Condenser FUJI Electric Co; Ltd. Japan	Cooling surface: 18m² No. of Tubes: 330 Length:920	TC-1012	01	Weight Dry: 1070	
19	Boiler Feed Pump Make: Mitsubishi Heavy Industries Sr.no: 22760¬ 22762	Type: MDG 344 Capacity 483 t/h Total Head: 190 k.g/cm² Speed: 6530 rpm	TD 3012/100 As built drawing 21/374	03	BFP: 6000 Base: 1300	
20	Boiler Feed Booster Pump Make: MHI Takasago Machinery works Sr.no: P-13986¬P13988	Type:SMJ8x10x19 Capacity: 486 t/h Total head : 6 k.g /cm²	TD 1005 As built drawing 21/37	03	BP: 900 Base: 900	
21	Hydraulic coupling for BFP Hitachi, Ltd. Tokyo Japan	GEARED TURBO TYPE: GSS42-CS46 Rating:4100KW	TD 1003 As built drawing 21/37	03	4480	
22	Working oil cooler Make: KAMUI SANGYO CO;LTD	TYPE : F-LOCA 8160 P2	DWG.P1-A3783J	03	850	
23	Lube oil cooler Make: KAMUI SANGYO CO;LTD	TYPE : F-LOCA -14460 P70		03	850	
24	L.P Heater #1 Hitachi, Ltd. Tokyo Japan	Horizontal surface type Surface area: 300m² Tubes: Material: H3300 –C6870T Outer Diameter: 15.88mm Thickness: 1.0mm Total Nos. of Tubes: 475	TE 1001	01	Weight Empty: 9500	

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
25	L.P Heater #2 Hitachi ,Ltd. Tokyo Japan	Horizontal surface type Surface area: 635m² Tubes: Material: G3461 – STB42 Outer Diameter: 19.0mm Thickness: 1.4mm Total Nos. of Tubes:490	TE 1003	01	Weight Empty: 18300k.g	
26	L.P Heater #3 Hitachi, Ltd. Tokyo Japan	Horizontal surface type Surface area: 560m² Tubes: Material: G3461 – STB42 Outer Diameter:19.0mm Thickness:1.4mm Total Nos. of Tubes:490	TE 1005	01	Weight Empty: 16500	
27	L.P Heater #4 Hitachi, Ltd. Tokyo Japan	Horizontal surface type Surface area: 465m² Tubes: Material: G3461 – STB42 Outer Diameter:19.0mm Thickness:1.4mm Total Nos. of Tubes:490	TE 1007	01	Weight Empty: 14100	
28	Deaerator FUJI Electric Co; Ltd. Japan	Type: Tray Capacity:150m³	GZ-6310	01	Dry weight:65.6 Tons	
29	H.P Heater #6 Hitachi, Ltd. Tokyo Japan	Type: Horizontal Surface Surface Area: 640m² Tube Size: Material: KASTB 49 Outer Diameter:15.9mm Thickness:1.8mm Total Nos. of Tubes:1040		01	Weight Empty: 27500	
30	H.P Heater #7 Hitachi, Ltd. Tokyo Japan	Type: Horizontal Surface Surface Area: 755m² Tube Size: Material: KASTB 49 Outer Diameter:15.9mm Thickness:1.8mm Total Nos. of Tubes:1040		01	Weight Empty: 35000	
31	Turbine Journal Bearing #1 FUJI Electric Co; Ltd. Japan	Size & Material: 590x280x140 S15C (Carbon Steel)		01		
32	Turbine Journal& Thrust Bearing #2 FUJI Electric Co; Ltd. Japan	Size & Material: 960x315x340 SF55		01		

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
33	Turbine Journal Bearing #3 FUJI Electric Co; Ltd. Japan	Size & Material: 740x400x400 SF55		01		
34	Turbine Journal Bearing #4 FUJI Electric Co; Ltd. Japan	Size & Material: 740x400x400 SF55		01		
35	Main Oil Tank FUJI Electric Co; Ltd. Japan	Type: Steel weld type Capacity : 25 m^3 Dimension:5000x2400x3000(mm) Material: rolled steel plate	TF1001aF As built drawing 21/37	01	8500	
36	Turbine oil Storage Tank FUJI Electric Co; Ltd. Japan	Capacity: 70 m^3	TF1005aF As built drawing 21/37	1	Empty: 17400	
37	BCW Pump Torishima pump manufacturing Co;ltd Osaka japan/ KSB	Type & Size: ETA 250-50 Head :55M Speed: 1480 rpm Capacity: 875m^3/h Shaft Material:S45C Impeller Material:BC2		3	Pump weight: 518 Motor: 1800 Base Plate: 215 Coupling: 119 k	
38	BCW Heat Exchanger. Hitachi co; Ltd. Tokyo Japan	Tubes O/D: 22.22mm thickness: 1.0mm length:6050mm Nos. of tubes: 2370. Material C6870T-0		2	29000	
39	Heater Drain Pump Torishima pump manufacturing Co;Ltd	Type & Size: 150x100- CSHS(K) Material: Casing: FCD40 Impeller: SCS1 Shaft:S45C		2	Pump: 400 Base Plate: 588 Motor : 1000 Coupling: 17.2	
40	L.P Turbine Bypass Valve EUR-CONTROL KALLE AB SWEDEN	Stop valve type VLBS - 2800 Actuator: SMH50 Control valve type VSG	TB-3021	1	Weight: 3300	
41	Condensate Pumps Torishima pump mfg. co.ltd/KSB Osaka Japan	Type &Size: WKT 150/8 Total Head:203.15M Speed 1480 rpm Capacity 289.5m^3/h Driver: 230KW	TC-2003, 2004 & 2005	3	Pump: 1780 Base plate: 320	
42	Instrument Air Compressor KAJI IRON WORKS ,LTD Model: VS-55C-0L	Type: 1 Cylinder .Double Action 1 Stage Non Lubricated, water Cooled Capacity: 7m^3/min(at free air, 33°c) After Cooler: Horizontal, Shell & Tube Drain Separator for After Cooler Type : Vertical Type		2		

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
43	Service Air Compressor KAJI IRON WORKS ,LTD Model: YD2-180	Speed: 585rpm Piston Displacement:33.2m³/min Pressure:7 k.g/cm²		2		
44	Instrument Refrigerated Air Dryer CKD Corporation Model: GT7150D-S37	Refrigerator Specification: Condenser: Air cooled Flow Control: Expansion Valve Refrigerant : R-22		1	440	
45	Makeup water transfer pump Torishima pump mfg. Co; Ltd/KSB Osaka Japan	Type & size: ETA 100-40 Material: Casing: FC20 Impeller: BC2 Shaft: S45C		2	Pump: 169 Base Plate: 115 Motor: 118 Coupling: 21	
46	Steam Air Ejector	Type: Twin Element Two Stages Tube size External Diameter: 19mm Thickness: 0.9mm Numbers of U Tubes: 169	TC4002aF As built drawing 21/37	2	3500	
47	Starting Ejector FUJI Electric Co; Ltd. Japan	Type: single element Stage stage		1	800	
48	Oil Transfer Pump Torishima pump mfg. Co.Ltd	Type & Size: KSR-30 Capacity: 25m³/hr Material: Casing: FC-25 Gear: S45C	TF3003F As built drawing 21/37	1	170	
49	Emergency Cooling Water Pump	Type & Size: 150x33 Material: Casing: FC20 Impeller: SCS13 Shaft:S45C		1	Pump: 188 Base Plate:140 Motor : 218 Coupling: 21	
50	Chiller plant - R1 Model: ES-5C2 Mitsubishi York , Ltd; .	Components: 1. Evaporator 2. Absorber 3. Generator 4. Condenser 5. Solution heat exchanger 6. Solution pump 7. Refrigerant pump 8. Purge pump (Vacuum pump)		1		
51	Cooling tower for Chiller Plant Make Shinwa sangyo co; ltd SNC AS Model (space saving type)	Fans		4		
52	Centrifugal pumps. Torishima -KSB	ETA Type Single stage end-suction Material: Nodular graphite cast iron		8		

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
53	High Pressure Centrifugal pump Torishima -KSB	Type: MOVI		1		
54	Air Handling Unit Make: Sinko Kogyo Co; Ltd.	Type D(Draw-Thru)		10		
55	Emergency Diesel Generator Make: Dorman Diesels England	Type :12ST		1		
56	Air compressor for Emergency Diesel Generator With Air storage tank			1		
57	Turbine room overhead crane Make : KONE	60/15 ton		1	Bridge :34,200 Trolley: 20,000 Assembly:69200	
58	Phosphate dozing pumps with tank			02		
59	Hydrazine dozing pumps with tank			02		
60	Ammonia dozing pumps with tank			02		
61	Chemical injection pumps with tank for bearing cooling water	Type: plunger Material: stainless steel		02	760	
62	Extraction check valve # 2 Make: UTSUE Valve Manufacturer	Class: 600 Valve # V4-109	ST-344660	1	360	
63	Extraction check valve # 3 Make: UTSUE Valve Manufacturer	Class: 300 Valve # V4-119	ST-344661	1	410	
64	Extraction check valve # 4 Make: UTSUE Valve Manufacturer	Class: 600 Valve # V4-120	ST-344661	1	410	
65	Extraction check valve # 4 Make: UTSUE Valve Manufacturer	Class: 600 Valve # V4-124	ST-344662	1	385	
66	Extraction check valve # 5 Make: UTSUE Valve	Class: 150 Valve # V4-131	ST-344663	1	900	
67	Extraction check valve # 6 Make: UTSUE Valve	Class: 150 Valve # V4-138	ST-344664	1	1800	
68	Main Steam Strainer FUJI Electric Co; Ltd. Japan		ST-346162	4		
69	Reheat Steam Strainer FUJI Electric Co; Ltd. Japan		ST-346149	2		
70	L.P Bypass Hydraulic supply Unit		As built drawing 21/37 page No.24	01	1000	
71	Oil cooler Assembly		TF-4002aF As built drawing 21/37	02	6575	
72	Jacking Oil Filter Assembly	Duplex type	TF -8012 As built drawing 21/37	02		

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
73	Oil ejector Assembly		TF -2002 aF As built drawing 21/37	01		
74	Phosphate injection pump for circulating water Make: Sakura SEISAK USHO,LTD.		TC-5001 743-0839 As built drawing 21/37	02	Pump 135 Tank 450	
75	Vapour extractor for main oil tank. Manufacturer : Izumi-Sofuki Co; Ltd	Type : Blower Capacity :710 m^3/h		01	70	
76	Vapour extractor for oil conditioner. Manufacturer : Izumi-Sofuki Co; Ltd	Type : Blower Capacity :710 m^3/h		1	70	
77	Butter fly valve	Type: Motor operated Size: 1350mm Material : cast iron		4	3000	
78	Makeup water tank	Type: Air Tight Capacity: 200 M^3 Shell Height: 7600 mm	Confirmatory Document Data Sheet Lot-I Volume-II	1	17000	

WATER TREATMENT SECTION UNITNO.1

1(a)	Cooling tower fans (fan wheel assembly)	Type: Axial flow propeller fan Diameter: 9760mm Speed: 113rpm No. of blades: 06	1A1 2993 TK-1011a	6		
1(b)	Speed reducer assembly of cooling tower fans	Model: RNF 24-BNN Gear type: Spiral bevel and Helical gear Gear ratio: 1/12.949	TK-1012 1A1 2294	6		
1(c)	Drive shaft assembly of cooling tower fans	Model: SN-375	TK-1013 1A1 2995	6		
2	Circulating water pumps	Type: Model DFV-1350 Vertical shaft , mixed flow pump Capacity: 16610m³/h Speed: 492rpm Discharge connection dia: 1350mm Impeller SCS 13	TC-3002b P2-64349	3	17200	
3	Small fire fighting pump Product no. P494542 Torishima pump MFG-Co; (Osaka Japan)	Size& Type: KWPZ50-160 Total head:20m Speed: 2870rpm Capacity: 20m³/h		2		
4	Cooling tower basin sludge pump. Make : Torisima pump MFG co; ltd	Type: KWPz 50-160 Speed: 2870rpm Minimum flow : 10m³/hr	Q-411010-2/2	1	Pump: 54 Base plate: 36 Coupling 15	
5	Demi water transfer pump Make : Torisima pump MFG co; ltd	Type: ETA 40-20 Speed: 2930 rpm Rate of flow: 60m³/h Total head : 40 M	094 029916 2/2	3	Pump: 43 Base plate: 37 Coupling : 8.2	
6	Service water pump Make : Torisima pump MFG co; ltd	Type: CPK-G 65-26 Speed: 2940 rpm Rate of flow : 1.250 m³/min Total head: 70 M	093039528	3	Pump: 80 Base plate: 75 Coupling : 20	
7	Regeneration pump Model No: 50x401 FWM Make: Ebara corporation Tokyo Japan	Item No. W-221-17A Speed : 2950 rpm Head :25M Capacity : 25 m³/hr		2		
8	Booster pump	Size/type : ETA-40-20 Head :35M Capacity : 35 m³/hr		2		
9	Air Blower pump	Size/type : ETA-40-20 Head :35M Capacity : 35 m³/hr		2		
10	Cooling Tower pump House over head crane	Type: Over head Capacity: Hoist: 20 Ton	Confirmatory Document Data sheet Lot-I Volume-II	1	Bridge: 12700 Trolly: 5000 Assembly: 23300	

ELECTRICAL SECTION UNITNO.1

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
1	Generator	MODEL: Synchronous Generator FTHRI 562 / 68-2 PHASE: 3 ACTIVE POWER: 250 MW, VISUAL POWER: 294200 KVA RATED VOLTAGE: 16.5 KV, RATED CURRENT: 10.294 KA POWER FACTOR: 0.85 (lagging), SPEED: 3000 RPM, CONNECTION: III3~ CRITICAL SPEED 1st ORDER: 1200 RPM CRITICAL SPEED 2nd ORDER: 3590 RPM RATED EXCITATION CURRENT: 2020A RATED EXCITATION VOLTAGE: 370 VEFFICIENCY: 99.02 % RATED PRESSURE OF H2: 3 Kg/Cm2 INSULATION GRADE OF STATOR, ROTOR WINDING & STATOR IRON CORE: F	EB-1003Q	1	(1) Wt: of Stator of Generator: 250000 (2) Wt: of Rotor of Generator: 50400
2	Main Transformer	MODEL: AD69030T1 TYPE: Oil Immersed, Out door, Oil Forced Air Forced (OFAF) Cooled RATED POWER: 294.2 MVA, RATED VOLTAGE: 220 / 16.5 KV RATED CURRENT: 772 / 10294 A, RATED FREQUENCY: 50 Hz TYPE OF COOLING: OF AF, NUMBER OF PHASES: 3 CONNECTION OF SYMBOL: YNd1, TEMP: CLASSIFICATION: A TEMPERATURE RISE: W = 55, O = 50 C, NOISE LEVEL: 90 dB (A) IMPEDANCE VOLTAGE: 15 % 294.2 MVA base **WEIGHT:** 1. ACTIVE PARTS: 221000 Kg 2. OIL: 59000 Ltr.	EE-8002 F	1	Cores & Coils: 122000 Total Assembled with Oil: 206000
3	Cooler Cubicle	Out Door Type, H:2300mm, W:1500mm, D:1000mm		1	400
4	Starting Transformer	TYPE: AD69030T3 RATED POWER: 25 MVA, RATED VOLTAGE: 220 / 6.9 KV RATED CURRENT: 39.4 / 65.6 – 1255 / 2092 A RATED FREQUENCY: 50 Hz, TYPE OF COOLING: ONAN / ONAF NUMBER OF PHASES: 3, CONNECTION OF SYMBOL: YN-yn0-d1 TEMP: CLASSIFICATION: A, TEMPERATURE RISE: W = 55, O = 50 C NOISE LEVEL: 76 dB (A) IMPEDANCE VOLTAGE: 8.75 % at rated MVA **WEIGHT:** 1. ACTIVE PARTS: 61000 Kg 2. OIL: 33100 Ltr.	EE-8004 D	1	Cores & Coils: 19000 Total Assembled with Oil: 50000

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
5	6.6 KV Switchgear Unit Section	Type: Double Stage Metal Enclosed	N.A	2	N.A
6	6.6 KV Switchgear Incoming Bus Tie	6600V, 2200A, Bus Copper H:2500, W: 11450, D: 2300	N.A	2	18000
7	6.6 KV Switchgear Common Section	Type: Double Stage Metal Enclosed	N.A	2	N.A
8	6.6 KV Switchgear Incoming Bus Tie	6600V, 2200A, Bus Copper H:2500, W: 4050, D: 2300	N.A	2	6000
9	6.6 KV Switchgear For Incomin & Bus Tie	Type: Draw Out, 7200V, 2000A	N.A	1	195
10	6.6 KV Switchgear For Feeder	Type: Draw Out, 7200V, 600A	N.A	1	195
11	Unit Section Incoming Bus Tie		N.A	2	195
12	Potential T/F	600V, 5000A, H:3500/2300, W: 9700, D: 200/1600	N.A	1	18000
13	Incomming Bus Tie Common Section		N.A	2	N.A
14	Potential T/F	600V, 2000A, H: 2300, W: 5600, D: 1600	N.A	1	8000
15	Auxiliary Transformer	RATED POWER: 25000 KVA, RATED VOLTAGE: 16.5 / 6.9 KV RATED CURRENT: 875 / 2092 A, RATED FREQUENCY: 50 Hz TYPE OF COOLING: ONAN, NUMBER OF PHASES: 3 CONNECTION OF SYMBOL: Dyn11, TEMP: CLASSIFICATION: A TEMPERATURE RISE: W = 55, O = 50 C, NOISE LEVEL: 76 dB (A) IMPEDANCE VOLTAGE:8.33 % at rated KVA **WEIGHT:** 1. ACTIVE PARTS: 36000 Kg 2. OIL: 8500 Ltr.	EE-8003bF	1	Cores & Coils: 15000 Total Assembled with Oil: 39000
16	Unit Section	3000KVA, HV: 6600V, LV: 400V, H: 2500mm, W: 2650, D: 1150	N.A	1	7000
17	Common Section	3000KVA, HV: 6600V, LV: 400V, H: 1600mm, W: 1850, D: 850	N.A	1	2000
18	Dry Type Transformer Unit # 1	Rated Power: 400 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 350A HV Side, 577 LV Side Rated Frequency: 50 Hz, Insulation Class: F, Connection Symbol: Dd0	N.A	1	N.A
19	Cooling Tower, Coommon & Unit P.C T/F	Rated Power: 1300kVA, 6.6/0.4kV, Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 113.7A HV Side, 1876 LV Side Wt: 3150kG 3ØTR <A-T12> 6930-6760-6600-6430-6270/400, 1300KVA (AN) NZ-4.5%, Ddo	N.A	3	3150
20	Molded 3-Phase Transformer	Rated Power: 200 KVA, Rated Voltage: 380V, Rated Current: 304A Rated Frequency: 50 Hz, Insulation Class: F	N.A	2	630
21	Oil Immersed Air Cool Transformer	Rated Power: 200 KVA, Rated Voltage: 380V, Rated Current: 304A Rated Frequency: 50 Hz, Insulation Class: F	N.A	2	630

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
22	Demi Plant (W/T) Dry Type Transformer	6.6/0.4kV, Rated Power: 250 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 21.8A HV Side, 261 LV Side Rated Frequency: 50 Hz, Insulation Class: F	N.A	2	840
23	WTPTA Dry Type Transformer	6.6/0.4kV, Rated Power: 700 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 61.2A HV Side, 1010 LV Side Rated Frequency: 50 Hz, Insulation Class: F Wt: 1900 kG	N.A	2	1900
24	Molded Dry Type Transformer	6.6/0.4kV, Rated Power: 400 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 35.0 A HV Side, 577 LV Side Rated Frequency: 50 Hz Insulation Class: F Wt: 1220 kG	N.A	2	1220
25	R.O Dry Type Transformer	6.6/0.4kV, Rated Power: 75 KVA Rated Voltage: 380V Rated Current: 114.0 A Rated Frequency: 50 Hz Insulation Class: F, Wt: 375 kG	N.A	1	375
26	Molded Dry Type Transformer	6.6/0.4kV, Rated Power: 400 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 35.0 A HV Side, 577 LV Side Rated Frequency: 50 Hz, Insulation Class: F Wt: 1220 kG	N.A	1	1220
27	Dry Type Cast Resin Transformer	6.6/0.4kV, Rated Power: 630 KVA Rated Voltage: 380V HV Side, 400V LV Side Rated Current: 957 A HV Side, 909 LV Side Rated Frequency: 50 Hz, Insulation Class: F Wt: 2390 kG	N.A	1	2390
28	Common & Unit Section T/F	1300 KV	N.A	2	N.A
29	Pre & Water Treatment	3ØTR <A-T12> 6930-6760-6600-6430-6270/400, 700KVA (AN) NZ-4.5%, Ddo	N.A	2	N.A
30	Water Treatment T/F	250 KVA	N.A	2	N.A
31	Intake Water Pump T/F	250 KVA	N.A	2	N.A
32	Admin Building Oil Filled T/F	250 KVA	N.A	2	N.A
33	Excitation Transfomrer	Rated: Voltge: 16500 HV Side, LV Side 530, Current: HV: Side 63.0, LV Side: 1961A	N.A	1	N.A
34	Thyristor	Output: 940KV, Voltage: 410V, Current: 2293A	N.A	1	N.A
35	Power Potential T/F (PPT)	Capacity: 2200KVA, HV: 16.5KV, LV: 670V	N.A	1	5000

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
36	Excitation Cubicle	Type: Metal Enclosed, Thickness: 2.3mm, Height: 2350mm, Widh: 8000mm, Depth: 1.00mm,	N.A	1	6000
37	Main Exciter Field Breaker	Type: ACB, Capacity: 30KA, Rating: 700V dc, Current: 3000A ac	N.A	1	N.A
38	Shunt	100 kV, 2500A	N.A	1	N.A
39	H2 Control Cubicle	Type: Verticle, Height: 2350mm, Wdth: 1000mm, Depth: 1000mm	N.A	1	1000
40	CO2 Cylender	Type: JIS Siphon, Pressure: 90Kg/Cm2, Capacity: 16Nm3, Height: 1340mm, Dia: 232mm,	N.A	14	700
41	Seal Oil Pump Motor	Type: Total Enclosed Fan Cooled, Output: 3.7/2.2KV, Voltage: 380/220 V, Height: 350/350mm, Width: 250/250mm, Depth: 400/470mm	N.A	2	45/45
42	H2 Gas Generating Equipment	Type: Electrolyzer, Generating Capacity: 3 Nm3/h, H2 Gas Pressure: 7Kg/Cm2, Power Consumption: 40KVA, Dimention: 1900(L) x 840(W) x 1650(H)	N.A	2	600
43	H2 Gas Storage Tank	Type: Horizontal Cylindrical, Capacity: 80m3, Design Pressure: 8Kg/Cm2g, Dimension: 3200 Ø x10000 mm	N.A	1	8000
44	PT Transformer Rating for Metering & Relay	PT Ratio: 16.5 KV / 110 V, Accu: Class: 0.3, Burden/Phase: 200VA, H: 1950mm, W: 1000mm, D: 3000mm	N.A	3	2000
45	Tie to 6.6kV Common M/C	DS, 2200A, 31.5kA	HS208800	-	1200
46	No.1 Unit P/C		(EC-1015)	-	1200
47	Emergency Fresh Water Fire Pump	600A, 31.5 KA	HS208799	-	1100
48	Boiler Feed Pump-A	600A, 31.5 KA	(EC-1014)	-	1100
49	Service Air compr-A	600A, 31.5 KA	HS208799	-	1100
50	Boiler Feed Pump-B	600A, 31.5 KA	(EC-1014)	-	1100
51	Service Air compr-B	600A, 31.5 KA	HS208799	-	1100
52	Boiler Feed Pump-C	600A, 31.5 KA	(EC-1014)	-	1100
53	GRF-A	600A, 31.5 KA	HS208795	-	1100
54	FDF-A	600A, 31.5 KA	(EC-1010)	-	1100
55	GRF-B	600A, 31.5 KA	HS208795	-	1100
56	FDF-B	600A, 31.5 KA	(EC-1010)	-	1100
57	Cooling tower T/F	600A, 31.5 KA	HS208798	-	1100
58	BCW-A	600A, 31.5 KA	(EC-1013)	-	1100
59	No. 2 W/T Transf	600A, 31.5 KA	HS208797	-	1100
60	BCW-B	600A, 31.5 KA	(EC-1012)	-	1100
61	No. 2 Pre & Waste P/C	600A, 31.5 KA	HS208797	-	1100
62	BCW-C	600A, 31.5 KA	(EC-1012)	-	1100
63	Intake Water C/C	600A, 31.5 KA	HS208796	-	1100
64	Spare		(EC-1011)	-	
65	Condensate Pump-A	600A, 31.5 KA	HS208795	-	1100
66	Cir-Water Pump-A	600A, 31.5 KA	(EC-1011)	-	1100
67	Condensate Pump-B	600A, 31.5 KA	HS208795	-	1100
68	Cir-Water Pump-B	600A, 31.5 KA	(EC-1011)	-	1100

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
69	Condensate Pump-C	600A, 31.5 KA	HS208795	-	1100
70	Cir-Water Pump-C	600A, 31.5 KA	(EC-1011)	-	1100
71	Incomin Bus PT	DS, 2200A, 31.5kA	HS208794	-	1200
72			(EC-1009)	-	
73	LA	DS, 2200A, 31.5kA	HS208788	-	1000
74	Incoming PT		(EC-1008)	-	
75	Tie to 6.6kV No. 1 Unit M/C	DS, 2200A, 31.5kA	HS208793	-	1200
76	Spare	DS, 2200A, 31.5kA	(EC-1020)	-	1200
77		600A, 31.5 KA	HS208792	-	1100
78	No. 1 Intake Water T/F	600A, 31.5 KA	(EC-1019)	-	1100
79	6.6kV Administration Building	600A, 31.5 KA	HS208791	-	1100
80	No. 1 Pre-West W/T Transformer	600A, 31.5 KA	(EC-1018)	-	1100
81	Fuel Oil System T/F	600A, 31.5 KA	HS208791	-	1100
82	No. 1 W/T Transformer	600A, 31.5 KA	(EC-1018)	-	1100
83	No. 2 Common M/S	DS, 2200A, 31.5kA	HS208790	-	1200
84	No. 1 Common P/C Tramsformer	DS, 2200A, 31.5kA	(EC-1017)	-	1200
85	Incoming Bus PT	DS, 2200A, 31.5kA	HS208789	-	1200
86			(EC-1016)	-	
87	LA	DS, 2200A, 31.5kA	HS208788	-	1000
88	Incoming PT		(EC-1008)	-	N.A
89	For Incoming Bus Tie	660V, 5000A,	N.A	1	350
90	For Feeders	660V, 600A,	N.A	1	70
91	400V Control Center	400V 1-1A C/C, 600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 9000mm, D: 500mm	N.A	1	4500
92	400V Control Center	400V 1-2A C/C, 600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 8200mm, D: 500mm	N.A	1	4000
93	400V Control Center	400V 1-1B C/C, 600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 1200mm, D: 500mm	N.A	1	600
94	400V Control Center	400V 1-2B C/C, 600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 4800mm, D: 500mm	N.A	1	2400
95	400V Control Center	400V 1-3C C/C, 600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 4200mm, D: 500mm	N.A	1	2100
96	400V Comon No. 1 C/C	600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 3600mm, D: 500mm	N.A	1	1800
97	Central Control Room Air Conditioner C/C	600V, Main Bus Current: 600A, Branch Bus: 400A, H:2300mm, W: 1200mm, D: 500mm	N.A	1	600
98	400V Power Center	No.1 P/C 600V, 1200V, Bus Conductor: Coper, H: 2300mm, W: 4200mm, D: 1600mm	N.A	1	6000
99	400V Power Center	No.2 P/C 600V, 1200V, Bus Conductor: Coper, H: 2300mm, W: 4200mm, D: 1600mm	N.A	1	6000

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
100	Air Circuit Breaker	No.1 P/C, 600V, Current: 1600/600A, Interating Capacity: 40KA	N.A	1	82/76
101	Air Circuit Breaker	No.2 P/C, 600V, Current: 1600/600A, Interating Capacity: 40KA	N.A	1	82/76
102	Transformer (Dry)	No. 1 P/C 500KVA, HT Side: 6600V, LT Side: 400V, H: 1400mm, W: 1650mm, D: 800mm	N.A	1	1700
103	Transformer (Dry)	No. 2 P/C 500KVA, HT Side: 6600V, LT Side: 400V, H: 1400mm, W: 1650mm, D: 800mm	N.A	1	1700
104	Transformer (Dry)	Capacity: 10KVA, HT Side: 380V, LT: Side: 280V, H: 2350mm, W: 600mm, D: 500mm	N.A	1	400
105	Transformer (Dry)	No. 1 C/C 10KVA, HT Side: 380V, LT Side: 220V, H: 2350mm, W: 600mm, D: 500mm	N.A	1	400
106	Transformer (Dry)	No. 2 C/C 10KVA, HT Side: 380V, LT Side: 220V, H: 2350mm, W: 600mm, D: 500mm	N.A	1	400
107	DC 220V Contol Center	Type: Metal Enclosed, 220DC, Main Bus Current: 400A, Branch Bus Current: 200A, Bus Conductor: Copper, H: 2350mm, W: 1800mm, D: 600mm	N.A	1	4500
108	CVCF For Computer	Input: 220V dc, 400V ac, Output: 110V, H: 2350mm, W: 3000mm, D: 1500mm	N.A	1	3000
109	CVCF For Control	Input: 220V dc, 400V ac, Output: 110V, H: 2350mm, W: 3000mm, D: 1500mm	N.A	1	3000
110	Emergency Diesel Generator	Cap: 750KVA, 400V, 1083A, 4-Pole, 3-Phase, 1500rpm,	N.A	1	2700
111	Emergency Diesel Engine	650KV, 1500rpm, No. of Cylender: 12,	N.A	1	4700
112	Emergency Diesel Engine Generator Completely assembled	W: 1315mm, L: 3100mm,	N.A	1	8500
113	Emergency Diesel Generator Air Compressor Motor	3.7kw, 380v, 1430RPM, h: 805, w: 560, d: 830	N.A	1	160
114	0.4kv ACB Incoming	Type: <220616> DA103QAMSAZF, 1000A, 40KA, IO 1000A	N.A	1	195
115	Pre & Water Treatment	3ØTR <A-T12> 6930-6760-6600-6430-6270/400, 700KVA (AN) NZ-4.5%, Ddo	N.A	2	390
116	Water Treatment T/F	250 KVA	N.A	2	390
117	Intake Water Pump T/F	250 KVA	N.A	2	390
118	Admin Building T/F	250 KVA	N.A	2	390
119	Oil Immersed Air Cool Transformer	Rated Power: 200 KVA, Rated Voltage: 380V Rated Current: 180-195A, Rated Frequency: 50 Hz Insulation Class: F, Wt: 630 kG Make: SAMCO Transformer Pakistan	N.A	2	390

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
120	0.4Kv ACB (AOP)	<220614> DA106AMSAZHF 1000A, 40KV IO-250A	N.A	1	195
121	0.4 Kv ACB Tie to No I Unit PC	<220219 DA203QAMSAZF 2000A, 50KA IO-2000A	N.A	1	195
122	0.4 Kv ACB	<220214> DA103QAMSAZF 1000A, 40KA IO-500A	N.A	1	195
123	0.4 Kv ACB	<22> DA13QAMSAZF, 1600A, 50KA, IO-1250A	N.A	1	195
124	0.4 Kv ACB	<221014> DA103QAMSAZHF, 800A, 40KA, IO-800A	N.A	2	390
125	0.4 Kv ACB	<1> DA103QAMSAZHF, 800A, 40KA, IO-250A	N.A	2	390
126	0.4KV Circuit Breaker				
127	Incomming MCCB Circuit Breaker	Type: <220616>, DA103QAMSAZF, 1000A, 40KA, IO 1000A	N.A	50	N.A
128	AOP Breaker	<220614>, DA106AMSAZHF, 1000A, 40KV, IO-250A	N.A	1	N.A
129	Tie Breaker Unit & Common Section	<220219, DA203QAMSAZF, 2000A, 50KA, IO-2000A	N.A	2	200
130		<220214>, DA103QAMSAZF, 1000A, 40KA, IO-500A	N.A	1	N.A
131		<22>, DA13QAMSAZF, 1600A, 50KA, IO-1250A	N.A	1	N.A
132		<221014>, DA103QAMSAZHF, 800A, 40KA, IO-800A	N.A	2	N.A
133		<1>, DA103QAMSAZHF, 800A, 40KA, IO-250A	N.A	2	
134	**Battery Bank**	Capacity : 2000 Amp No. of Cell: 110	N.A	1	19580
135	**800A Capacity, DC Battery Charger**	Input: 3-Phase, 380V AC, 50Hz, 0.85 p.f, Max: Input Current: 450A Output: 220V DC, Max: Current Limitation: 800A, Nominal Current: 630A	N.A	1	N.A
136	Cooling Tower Pump House Overhead Crane		(D16) GZ-6318Af	N.A	N.A
137	Yard Instrument Air System		(E16) GC-3534aF	N.A	N.A
138	CABLES 220kv Generator Main Circuit	Size: 725 mm2, Construction Strand/Dia: 91/3.2mm, Out Dia: 35.2mm, Dimensions: d:36.7mm, D:56mm, A:90mm, L:240mm, Diagonal Dimension of HEXAGONAL Dies: 56mm	Employers Drg: No. EF-1101 a F	N.A	N.A

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
139	CABLES 220kv Generator Main Circuit	Size: 600 mm2, Construction Strand/Dia: 91/2.9mm, Out Dia: 31.9mm, Dimensions: d:33.3mm, D:51mm, A:70mm, L:160mm, M:160, Diagonal Dimension of HEXAGONAL Dies: 51mm	N.A	N.A	N.A
140	CABLES 220kv Starting T/F Circuit	Size: 400 mm2, Construction Strand/Dia: 61/2.9mm, Out Dia: 26.1mm, Dimensions: d:27.4mm, D:47mm, A:70mm, L:155mm, M:155, Diagonal Dimension of HEXAGONAL Dies: 47mm	N.A	N.A	N.A
141	CABLES 220kv Starting T/F Circuit	Size: 200 mm2, Construction Strand/Dia: 19/3.7mm, Out Dia: 18.5mm, Dimensions: d:19.5mm, D:32mm, A:53mm, L:200mm, Diagonal Dimension of HEXAGONAL Dies: 32mm	N.A	N.A	N.A
142	Power Cables	6600V, No. of Core: 3C, T.Length: 16050 Mtr	N.A	N.A	N.A
143	Power Cables	6600V, No. of Core: 3C, T.Length: 64400 Mtr	N.A	N.A	N.A
144	Control Cable	No. of Core: CVV-2, 3, 4, 5, 6, 7, 9, 12, 20, T. Length: 461000 Mtr	N.A	N.A	N.A
145	Comunication Cable	CVV-s, No. of Core: 2C-6C, T.Length: 17500 Mtr	N.A	N.A	N.A
146	Comunication Cable	CVV-s, No. of Core: 2C, T.Length: 17500 Mtr	N.A	N.A	N.A
147	Cable Tray	Kind: Lader Type:, T. Length: 7650Mtr	N.A	N.A	131329
148	Cable Tray	Kind: Duct Type:, T. Length: 2100Mtr	N.A	N.A	70440
149	Grounding Wire	Kind: Bare Standared Coper, T. Length: 10500Mtr	N.A	N.A	24129
150	Condute	Kind: Rigid Steel, T. Length: 13900Mtr	N.A	N.A	N.A
151	Condute	Kind: Flexible, T. Length: 1050Mtr	N.A	N.A	N.A
152	Current Transformer		(F03) GZ-6341F	N.A	N.A
153	Potential Transformer		(F04) GZ-6342F	N.A	N.A
154	Exciter and AVR		(G02) GZ6344F	N.A	N.A
155	H2 Gas Control Cubicle		(G03) GZ6345F	N.A	N.A
156	Seal Oil Unit		(G04) GZ6346F	N.A	N.A
157	Isolated Phase Bus Duct		(G05) GZ6347F	N.A	N.A
158	Potential Transformer		(G06) GZ6348F	N.A	N.A
159	6600V M/C		(G10) GZ6352F	N.A	N.A
160	460V Power Center		(G11) GZ6353F	N.A	N.A
161	460V Control Center		(G12) GZ6354F	N.A	N.A
162	Distribution Panel		(G13) GZ6355F	N.A	N.A
163	Emergency Diesel Generator		(G14) GZ6356aF	N.A	N.A
164	Battery and Charger		(G15) GZ6357F	N.A	N.A
165	220KV Overhead Line		(G22) GZ6364F	N.A	N.A
166	220KV Cable		(G23) GZ6365aF	N.A	N.A
167	F.D Fan Motor	2035 Kw, 210A, 6600V, 980 Rpm, DE Brg: 6240C3+NU240C3, NDE Brg: NU230M	EG-1002	2	28000
168	GRF Motor	325 Kw, 37A, 6600V, 985 Rpm, DE Brg: 6226, NDE Brg: NU226	EG-1003	2	8000
169	Service Air Compressor Motor	165 Kw, 22A, 6600V, 590 Rpm, DE Brg: J130–12C3, NDE Brg: J130 – 12C3	EG-1004	2	6600
170	Inst: Air Comp: Motor	75 Kw, 142A, 380V, 975 Rpm, DE Brg: NU318, NDE Brg: 6315	EG-1005	2	1100

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
171	Yard Inst: Air comp: Motor	11Kw, 22A, 380V, 970 Rpm, 6312 ZZ	EG-1006	2	300
172	R.O Service Pump Motor	55 Kw, 106A, 380V, 1475 Rpm, DE Brg: 6218, NDE Brg: 6314	EG-1007	3	1545
173	R.O Transfer Pump Motor	55 Kw, 116A, 380V, 730 Rpm, DE Brg: NU318, NDE Brg: 6316	EG-1008	2	1550
174	R.O Receive Pump Motor	37 Kw, 78A, 380V, 730 Rpm, DE Brg: NU218, NDE Brg: 6314	EG-1009	4	2360
175	Boiler Feed Pump Motor	4100 Kw, 405A, 6600V, 1485 Rpm	EG-1010	3	45000
176	CWP Motor Motor	1650 Kw, 191A, 6600V, 494 Rpm, DE Brg: NU248, NDE Brg: 6236	EG-1011	3	41400
177	Condensate Pump Motor	230 Kw, 24A, 6600V, 1480 Rpm, DE Brg: 7324ATDB+KL30AC3, NDE Brg: NU322C3	EG-1012	3	7500
178	BCWP Motor	190 Kw, 20A, 6600V, 1480 Rpm, DE Brg: 6324C3, NDE Brg: NU322	EG-1013	3	5400
179	Heater Drain Pump Motor	132 Kw, 233A, 380V, 2960 Rpm, DE Brg: 6212C3, NDE Brg: 6212C3	EG-1014	3	3000
180	Intake Water Pump Motor	90 Kw, 162A, 380V, 1480 Rpm, DE Brg: 7320ATDB+KL30A, NDE Brg: NU320	EG-1015	4	8200
181	D.W Feed Pump Motor	55 Kw, 99A, 380V, 2960 Rpm, DE Brg: 6212C3, NDE Brg: 6212C3	EG-1016	4	2060
182	C.T Make Up Pump Motor	132 Kw, 240A, 380V, 1480 Rpm, DE Brg: 6320, NDE Brg: NU320	EG-1017	2	2500
183	Cooling Tower Fan Motor	145 Kw, 260A, 380V, 1480 Rpm, DE Brg: 6320, NDE Brg: NU320	EG-1018	6	7500
184	Back Washing Pump Motor	37 Kw, 70A, 380V, 1465 Rpm, DE Brg: 6315, NDE Brg: 6212	EG-1019	N.A	N.A
185	Treated Wat: Transfer Pump Motor	45 Kw, 82A, 380V, 2960 Rpm, DE Brg: 6212C3, NDE Brg: 6212C3	EG-1020	N.A	N.A
186	Raw Water Pump Motor	45 Kw, 86A, 380V, 1470 Rpm, DE Brg: 6218, NDE Brg: 6314	EG-1021	6	N.A
187	Aux: Oil Pump Motor	132 Kw, 233A, 380V, 2960 Rpm, DE Brg: 6312C3, NDE Brg: 6212C3	EG-1022	1	N.A
188	Jacking Oil Pump Motor	55 Kw, 103A, 380V, 970 Rpm, DE Brg: 6316, NDE Brg: 6213	EG-1023	1	N.A
189	Service Water Pump Motor	30 Kw, 54A, 380V, 2940 Rpm, Brg: 6212 ZZC3	EG-1024	3	654
190	Demi Water Pump Motor Motor	15 Kw, 27A, 380V, 2930 Rpm, DE Brg: 6309ZZ, NDE Brg: 6308ZZ	EG-1025	3	357
191	Demineralizer Trans Pump Motor	5.5 Kw, 11.5A, 380V, 2920 Rpm, DE Brg: 6308ZZ, NDE Brg: 6307ZZ	EG-1026	3	204
192	Filter Equip Trans Pump Motor	15 Kw, 28.5A, 380V, 1465 Rpm, DE Brg: 6312ZZ, NDE Brg: 6210ZZ	EG-1027	3	735
193	Coagulant Agitator Motor	5.5 Kw, 11A, 380V, 1440 Rpm, DE Brg: 6308ZZ, NDE Brg: 6207ZZ	EG-1028	3	258
194	AOP of BFP Motor	7.5 Kw, 15A, 380V, 1445 Rpm, DE Brg: 6308ZZ, NDE Brg: 6207ZZ	EG-1029	3	204
195	Booster Pump Motor	7.5 Kw, 14.5A, 380V, 2925 Rpm, DE Brg: 6309ZZ, NDE Brg: 6308ZZ	EG-1030	1	
196	Regeration Water Motor Pump	3.7 Kw, 7.2A, 380V, 2875 Rpm, DE Brg: 6306ZZ, NDE Brg: 6206ZZ	EG-1031	2	72
197	Long Soot Blower Motor	0.75 Kw, 2.5A, 380V, 920 Rpm, Make England	EG-1032	18	N.A
198	Small Soot Blower Motor	0.75 Kw, 2.5A, 380V, 920 Rpm, Make England	EG-1033	18	N.A

BOILER UNITNO.1 THERMAL POWER STATION, JAMSHORO

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
1	Boiler Steam Generator Type:Mitshui Riley ISR Type Boiler MFG:Rilley-Mitsui Constrium	Type: Natural Circulation Pressurized Furnace Max Evaporation: 795,600kg /Hr Design pressure: 196.2kg/cm2 Steam temperature at Superheater & Reheater Outlet541C Design Pressure for RH: 53.4kg/cm2 Heating Surface of SH,RH & Econo: 17533m2		1	1593 Ton	1593 Ton
2	Forced Draft Fan	Type: TA-FV-ICD , Capacity : 7700m3/min, Total Pressure: 1220 mmAq Speed : 980 rpm Qty :02 Nos Make: Nakashima Mfg Co Ltd Japan		1	Total weight: 27.0Ton	Total weight: 27.0Ton
3	Gas Recirculation Fan	Type: NV-ICD Manufac: No. 870572-1A Capacity: 20803740 M³/ min Totla pressure :430/300 MMAG Manuf date : march 1988 Make: Nakashima Manufact Co ITD Japan		1	Total weight:12×2= 24.0Ton	Total weight: 24.0Ton
4	House Boiler			1	32.100 Tons	32.100 Ton
5	Flame Detector Cooling fan			1	Total weight: 1.3Ton	Total weight: 1.3Ton
6	Seal air Booster Fan			1	Total weight: 1.1Ton	Total weight: 1.1Ton
7	Fuel Oil gun			1	Total weight: 0.5Ton	Total weight: 0.5Ton
8	Ignitor gun			1	Total weight: 0.5Ton	Total weight: 0.5Ton
9	Shut off valve for automizing			1	Total weight: 0.36Ton	Total weight: 0.36Ton
10	Gate Valve (300lb-65A) Qty 18 Nos			1	40×18=0.72 Tons	0.72 Tons
11	Safety Valve (Cast Steel) Qty 11 Nos			1	360×11=3.960 Tons	3.960 Tons
12	Gate Valve (600lb-200A) Qty 15Nos			1	300×15=4.50 Ton	4.50 Tons
13	Check Valve (600lb-200A) Qty 36Nos			1	218×36=7.848 Tons	7.848 Tons
14	Gate Valve (600lb-250A) Qty 24NOs			1	248×24=5.952 Tons	5.952 Tons
15	Globe Valve (600lb-150A) Qty 36 Nos			1	250×36=9.0 Tons	9.0 Tons
16	Check Valve (600lb-65A) Qty 18 Nos			1	35×18=0.630 Tons	0.630 Tons
17	Boiler Drum		BA-3001 A-F	1	148.917 Tons	148.917 Tons
18	Air pre-Heater		BC-2001 A	1	23.0 Ton	23.0 Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
19	Soot Blower (2260×36 Nos)		BC-1001 B-F	1	8.136 Tons	8.136 Tons
20	RO Pump Qty 03 Nos		BD-2001 A-F	1	965×3=2.895 Ton	2.895 Ton
21	Residual Oil Heater Type:SEO Koatsu Kogyo Co. Ltd. Qty 02 Nos Material Tube:STB35-Sc and Shell SB-46		B62-40622	1	19.60×2=39.2 Tons	39.2 Tons
22	HSD Oil Pump Qty 02 Nos		BD-2002 A-F (BZ-1520aF)	1	347×2=0.694 Ton	0.694 Ton
23	Steam Converter			1	Total weight: 21.569Ton	Total weight: 21.569Ton
24	Blowdown Tank	Manufacture SR No MM8801 Capacity: 16.3 ³ Make: Mitsui Engg & SgihpBuilding Co LTD Tamando Japan		1	Total weight: 5.4Ton	Total weight: 5.4Ton
25	Makeup water Stoage Tank	Design Pr: Fullwater Volume :200 M ³ Make: HitachiZosan Tank & System Inc Fuji Electric Co Ltd JapanS		1	Total weight : 40.0Ton	Total weight : 40.0Ton
26	Steam Converter drain Cooler	Surface Area : 10 M² Mnaufacuring sr No : 5649.C Make: SEO KUATSU KOGYO CO LTD JAPAN		1		800.0
27	Boiler Name plate		DRG BA-1005	1	0.022 Ton	0.022 Ton
28	Steam coil air heater assembly		DRG 1162-2197	1	8.000Ton	8.000Ton
29	Steam Coil Air Heater outline		DRG BC-2001	1		
30	Steam Coil air Drain Tank cap 4.15 m3		DRG-4B-31888	1	1.900Ton	1.900Ton
31	Steam coil air heater drain Tank		DRG BC-2021	1		
32	upper front releaser header		DRG IB-36852	1	3.270Ton	3.270Ton
33	Upper Rear WW Header		DRG IB-36851	1	4.490Ton	4.490Ton
34	Upper Rear releaser Header		DRG IB-36853	1	3.262Ton	3.262Ton
35	Upper Rear side WW header		DRG IB-36850	1	4.564Ton	4.564Ton
36	Hopper bottom Header		DRG IB-36863	1	18.986Ton	18.986Ton
37	Final super heater header		DRG IB-36871	1	11.104Ton	11.104Ton
38	Primary Re heater inlet header		DRG IB-36907	1	5.416Ton	5.416Ton
39	Final R.H outlet Header		DRG IB-36870	1	8.823Ton	8.823Ton
40	Final S.H outlet header		DRG IB-36871	1	11.104Ton	11.104Ton
41	Primary S.H inlet header		DRG IB-36847	1	4.978Ton	4.978Ton
42	Convention Roof Header		DRG IB-36857	1	3.223Ton	3.223Ton
43	Primary S.H inlet header		DRG IB-36847	1	4.978Ton	4.978Ton
44	Econonomizer outlet header		DRG IB-36906	1	2889.6	2889.6
45	Econonmizer outlet piping arrangement		DRG IB-36868	1	7.625Ton	7.625Ton
46	Down Convinier arrangement		DRG IB-36858	1	97.330Ton	97.330Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
47	Furnace Side wall releaser tube arrangement		DRG IB-36918	1	7.716Ton	7.716Ton
48	Steel Drum Arranagement		DRG IB-3684-2	1	148.917Ton	148.917Ton
49	Steam Drum Nozzle Detail		DRG 3B-2447	1	5.856Ton	5.856Ton
50	Convection Roof Water Tube Pannels		DRG 1B-36865	1	22.829Ton	22.829Ton
51	Convection Rear Water Tube Pannels		DRG 1B-36877	1	43.933Ton	43.933Ton
52	Steam Converter Type B4U			1	7.000Ton	7.000Ton
53	Long Retracable soot blower mode STR-8E (1R,2R)		DRG -770-33125	1	2.060Ton	2.060Ton
54	Long Retracable soot blower mode STR-8E (3R/L,to 14R/L)		DRG -770-33134	1	24.770Ton	24.770Ton
55	Half Retracable soot blower mode STR-8E (15R/L to 18R/L)		DRG -770-33135	1	4.900Ton	4.900Ton
56	HAlf Retracable soot blower mode STR-8E (17R)		DRG -770-33217	1	0.700Ton	0.700Ton
57	Soot Blowr air seal sleeve		DRG 770-32021	1	0.42Ton	0.42Ton
58	Air Preheater		DRG BC-2001 (BF)	1	230TOn	230TOn
59	Blow Down Tank		DRG B-3001	1	5.4 Tons	5.4Ton
60	Residual Serivce Oil Tank			1	11.8 Ton Appr:	11.8 Ton Appr:

Thermal Power Plant Data - Power Sector Indigenization Plan

c. **Electrical Equipment Unit # 1**

Sr. No	Equipment Name	Area/ Location	Installed Qty:	Description	Make (Local/ Import)	Drawing No.	Remarks
1	**Generator**	Turbine Hall (10-Mtr)	1	MODEL: Synchronous Generator FTHRI 562 / 68-2 PHASE: 3 ACTIVE POWER: 250 MW VISUAL POWER: 294200 KVA RATED VOLTAGE: 16.5 KV RATED CURRENT: 10.294 KA POWER FACTOR: 0.85 (lagging) SPEED: 3000 RPM CONNECTION: III3~ CRITICAL SPEED 1st ORDER: 1200 RPM CRITICAL SPEED 2nd ORDER: 3590 RPM RATED EXCITATION CURRENT: 2020A RATED EXCITATION VOLTAGE: 370 VEFFICIENCY: 99.02 % RATED PRESSURE OF H2: 3 Kg/Cm2 INSULATION GRADE OF STATOR, ROTOR WINDING & STATOR IRON CORE: F	FUJI ELECTRIC CO: JAPAN		
2	**Main Transformer**		1	MODEL: AD69030T1 TYPE: Oil Immersed, Out door, Oil Forced Air Forced (OFAF) Cooled RATED POWER: 294.2 MVA RATED VOLTAGE: 220 / 16.5 KV RATED CURRENT: 772 / 10294 A RATED FREQUENCY: 50 Hz TYPE OF COOLING: OF AF NUMBER OF PHASES: 3 CONNECTION OF SYMBOL: YNd1 TEMP: CLASSIFICATION: A TEMPERATURE RISE: W = 55, O = 50 C NOISE LEVEL: 90 dB (A) IMPEDANCE VOLTAGE: 15 % 294.2 MVA base **WEIGHT:**	FUJI ELECTRIC CO: JAPAN		
3	**Starting Transformer**		1	TYPE: AD69030T3 RATED POWER: 25 MVA RATED VOLTAGE: 220 / 6.9 KV RATED CURRENT: 39.4 / 65.6 – 1255 / 2092 A RATED FREQUENCY: 50 Hz TYPE OF COOLING: ONAN / ONAF NUMBER OF PHASES: 3 CONNECTION OF SYMBOL: YN-yn0-d1 TEMP: CLASSIFICATION: A TEMPERATURE RISE: W = 55, O = 50 C NOISE LEVEL: 76 dB (A) IMPEDANCE VOLTAGE: 8.75 % at rated MVA **WEIGHT:** 1. ACTIVE PARTS: 61000 Kg 2. OIL: 33100 Ltr. NAME OF MANUFACTURER: FUJI ELECTRIC COMPANY LTD: JAPAN	FUJI ELECTRIC CO: JAPAN		
4	**Auxiliary Transformer**		1	RATED POWER: 25000 KVA RATED VOLTAGE: 16.5 / 6.9 KV RATED CURRENT: 875 / 2092 A RATED FREQUENCY: 50 Hz TYPE OF COOLING: ONAN NUMBER OF PHASES: 3 CONNECTION OF SYMBOL: Dyn11 TEMP: CLASSIFICATION: A TEMPERATURE RISE: W = 55, O = 50 C NOISE LEVEL: 76 dB (A) IMPEDANCE VOLTAGE:8.33 % at rated KVA **WEIGHT:** 1. ACTIVE PARTS: 36000 Kg 2. OIL: 8500 Ltr.	FUJI ELECTRIC CO: JAPAN		
6	**Dry Type Transformer Unit # 1**	R.O Decanting Area	1	Rated Power: 400 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 350A HV Side, 577 LV Side Rated Frequency: 50 Hz Insulation Class: F Connection Symbol: Dd0	FUJI ELECTRIC CO: JAPAN		
7	**Cooling Tower, Coommon & Unit P.C T/F**	5 Mtr	3	Rated Power: 1300kVA, 6.6/0.4kV, Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 113.7A HV Side, 1876 LV Side Wt: 3150kG 3ØTR <A-T12> 6930-6760-6600-6430-6270/400 1300KVA (AN) NZ-4.5%, Ddo			

c. **Electrical Equipment Unit # 1**

Sr. No	Equipment Name	Area/ Location	Installed Qty:	Description	Make (Local/ Import)	Drawing No.	Remarks
8	**Molded 3-Phase Transformer**	5 Mtr	2	Rated Power: 200 KVA Rated Voltage: 380V Rated Current: 304A Rated Frequency: 50 Hz Insulation Class: F Wt: 630 kG			
9	**Oil Immersed Air Cool Transformer**		2	Rated Power: 200 KVA Rated Voltage: 380V Rated Current: 304A Rated Frequency: 50 Hz Insulation Class: F Wt: 630 kG			
10	**Demi Plant (W/T) Dry Type Transformer**	Demi Plant	2	6.6/0.4kV, Rated Power: 250 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 21.8A HV Side, 261 LV Side Rated Frequency: 50 Hz Insulation Class: F Wt: 840 kG			
11	**WTPTA Dry Type Transformer**	PTA	2	6.6/0.4kV, Rated Power: 700 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 61.2A HV Side, 1010 LV Side Rated Frequency: 50 Hz Insulation Class: F Wt: 1900 kG			
12	**Molded Dry Type Transformer**	PTA	2	6.6/0.4kV, Rated Power: 400 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 35.0 A HV Side, 577 LV Side Rated Frequency: 50 Hz Insulation Class: F Wt: 1220 kG			
13	**R.O Dry Type Transformer**	R.O	1	6.6/0.4kV, Rated Power: 75 KVA Rated Voltage: 380V Rated Current: 114.0 A Rated Frequency: 50 Hz Insulation Class: F Wt: 375 kG			
14	**Molded Dry Type Transformer**	R.O	1	6.6/0.4kV, Rated Power: 400 KVA Rated Voltage: 6600V HV Side, 400V LV Side Rated Current: 35.0 A HV Side, 577 LV Side Rated Frequency: 50 Hz Insulation Class: F Wt: 1220 kG			
15	**Dry Type Cast Resin Transformer**	W/Shop	1	6.6/0.4kV, Rated Power: 630 KVA Rated Voltage: 380V HV Side, 400V LV Side Rated Current: 957 A HV Side, 909 LV Side Rated Frequency: 50 Hz Insulation Class: F Wt: 2390 kG			
16	**6.6KV VCB Circuit Breaker**	5 Mtr	18	HS31061-06M1-N, 7.2KV, 31.5KA, 600A			
17	**6.6 kv VCB Starting Aux: T/F**	5 Mtr	2	Type: VCB <210254> HS3106M-30MF-N 2200A, 7.2KV 31.5KA			
18	**6.6 kv VCB Starting Aux: T/F**	5 Mtr	2	Type: HS3106M-20MF-N 2000A, 7.2KV 52B1, 52B2 = 2000A			
19	**All 6.6KV Motors**	5 Mtr	18	Type: HS3106M6-N 7.2KV, 31.5KA, 600A			
20	**0.4kv ACB Incoming**			Type: <220616> DA103QAMSAZF 1000A, 40KA IO 1000A			

Thermal Power Plant Data - Power Sector Indigenization Plan

C. **Electrical Equipment Unit # 1**

Sr. No	Equipment Name	Area/ Location	Installed Qty:	Description	Make (Local/ Import)	Drawing No.	Remarks
21	**Pre & Water Treatment**		2	3ØTR <A-T12> 6930-6760-6600-6430-6270/400 700KVA (AN) NZ-4.5%, Ddo			
22	**Water Treatment T/F**	PTA	2	250 KVA			
23	**Intake Water Pump T/F**	Intake	2	250 KVA			
24	**Admin Building T/F**	Admn Building	2	250 KVA			
25	**Oil Immersed Air Cool Transformer**	Admn Building	2	Rated Power: 200 KVA Rated Voltage: 380V Rated Current: 180-195A Rated Frequency: 50 Hz Insulation Class: F Wt: 630 kG			
26	**0.4Kv ACB (AOP)**	5 Mtr	1	<220614> DA106AMSAZHF 1000A, 40KV IO-250A			
27	**0.4 Kv ACB Tie to No I Unit PC**	5 Mtr	1	<220219 DA203QAMSAZF 2000A, 50KA IO-2000A			
28	**0.4 Kv ACB**	5 Mtr	1	<220214> DA103QAMSAZF 1000A, 40KA IO-500A			
29	**0.4 Kv ACB**	5 Mtr	1	<22> DA13QAMSAZF, 1600A, 50KA, IO-1250A			
30	**0.4 Kv ACB**	5 Mtr	2	<221014> DA103QAMSAZHF, 800A, 40KA, IO-800A			
31	**0.4 Kv ACB**	5 Mtr	2	<1> DA103QAMSAZHF, 800A, 40KA, IO-250A			
A	**6.6KV Circuit Breaker**						
1	Auxiliary Transformer		1	H63106M-30MF-N			
2	Starting Transformer		1	VCB: 2200A, 7.2KV, 31.5KA			
3	BFP		3	HS31061-06M1-N, 7.2KV, 31.5KA, 600A			
4	CP		3				
5	CWP		3				
6	BCW		3				
7	GRF		2				
8	FDF		2				
9	SAC		2				
10	CT Fan		6				
11	Tie Circuit Breaker		2	Type: HS3106M-20MF-N 2000A, 7.2KV, 52B1, 52B2 = 2000A			
B	**0.4KV Circuit Breaker**						
1	Incomming MCCB Circuit Breaker		50	Type: <220616>, DA103QAMSAZF, 1000A, 40KA, IO 1000A			
2	AOP Breaker		1	<220614>, DA106AMSAZHF, 1000A, 40KV, IO-250A			
3	Tie Breaker Unit & Common Section		2	<220219, DA203QAMSAZF, 2000A, 50KA, IO-2000A			
4			1	<220214>, DA103QAMSAZF, 1000A, 40KA, IO-500A			
5			1	<22>, DA13QAMSAZF, 1600A, 50KA, IO-1250A			
6			2	<221014>, DA103QAMSAZHF, 800A, 40KA, IO-800A			
7			2	<1>, DA103QAMSAZHF, 800A, 40KA, IO-250A			
C	**Dry Type Transfomrer**						
1	Common & Unit Section T/F		2	1300 KV			
2	Pre & Water Treatment		2	3ØTR <A-T12> 6930-6760-6600-6430-6270/400 700KVA (AN) NZ-4.5%, Ddo			
3	Water Treatment T/F		2	250 KVA			
Sr. No	**Equipment Name**	**Area/ Location**	**Installed Qty:**	**Description**	**Make (Local/ Import)**	**Drawing No.**	**Remarks**
4	Intake Water Pump T/F		2	250 KVA			

C. **Electrical Equipment Unit # 1**

Sr. No	Equipment Name	Area/ Location	Installed Qty:	Description	Make (Local/ Import)	Drawing No.	Remarks
5	Admin Building Oil Filled T/F		2	250 KVA			
1	**Battery Bank**		01 Set (110 Nos)				
2	**800A Capacity, DC Battery Charger**		1	Input: 3-Phase, 380V AC, 50Hz, 0.85 p.f, Max: Input Current: 450A Output: 220V DC, Max: Current Limitation: 800A, Nominal Current: 630A	Chloride (France)		

Thermal Power Plant Data - Power Sector Indigenization Plan

C. **Electrical Equipment Unit # 1 (Motors, Fans & Pumps)**

Sr. No	Equipment Name	Area/Location	Installed Qty:	Description	Make (Local/ Import)	Remarks
1	F.D Fan	Boiler Basement	2	2035 Kw, 210A, 6600V, 980 Rpm, DE Brg: 6240C3+NU240C3, NDE Brg: NU230M		
2	GRF	Boiler Basement	2	325 Kw, 37A, 6600V, 985 Rpm, DE Brg: 6226, NDE Brg: NU226		
3	Service Air Compressor	Turbine Basement	2	165 Kw, 22A, 6600V, 590 Rpm, DE Brg: J130–12C3, NDE Brg: J130 – 12C3		
4	Inst: Air Comp:	Turbine Basement	2	75 Kw, 142A, 380V, 975 Rpm, DE Brg: NU318, NDE Brg: 6315		
5	Yard Inst: Air comp:	Turbine Basement	2	11Kw, 22A, 380V, 970 Rpm, 6312 ZZ		
6	R.O Service Pump	R.O Service Area	3	55 Kw, 106A, 380V, 1475 Rpm, DE Brg: 6218, NDE Brg: 6314		
7	R.O Transfer Pump	Oil Decantng	2	55 Kw, 116A, 380V, 730 Rpm, DE Brg: NU318, NDE Brg: 6316		
8	R.O Receive Pump	Oil Decantng	4	37 Kw, 78A, 380V, 730 Rpm, DE Brg: NU218, NDE Brg: 6314		
9	Boiler Feed Pump	Turbine Basement	3	4100 Kw, 405A, 6600V, 1485 Rpm		
10	CWP Motor	Pumphouse	3	1650 Kw, 191A, 6600V, 494 Rpm, DE Brg: NU248, NDE Brg: 6236		
11	Condensate Pump	Turbine Basement	3	230 Kw, 24A, 6600V, 1480 Rpm, DE Brg: 7324ATDB+KL30AC3, NDE Brg: NU322C3		
12	BCWP	Turbine Basement	3	190 Kw, 20A, 6600V, 1480 Rpm, DE Brg: 6324C3, NDE Brg: NU322		
13	Heater Drain Pump Motor	Turbine Basement	3	132 Kw, 233A, 380V, 2960 Rpm, DE Brg: 6212C3, NDE Brg: 6212C3		
14	Intake Water Pump	Intake	4	90 Kw, 162A, 380V, 1480 Rpm, DE Brg: 7320ATDB+KL30A, NDE Brg: NU320		
15	D.W Feed Pump	PTA	4	55 Kw, 99A, 380V, 2960 Rpm, DE Brg: 6212C3, NDE Brg: 6212C3		
16	C.T Make Up Pump	PTA	2	132 Kw, 240A, 380V, 1480 Rpm, DE Brg: 6320, NDE Brg: NU320		
17	Cooling Tower Fan	Cooling Tower	6	145 Kw, 260A, 380V, 1480 Rpm, DE Brg: 6320, NDE Brg: NU320		
18	Back Washing Pump	PTA		37 Kw, 70A, 380V, 1465 Rpm, DE Brg: 6315, NDE Brg: 6212		
19	Treated Wat: Transfer Pump	PTA		45 Kw, 82A, 380V, 2960 Rpm, DE Brg: 6212C3, NDE Brg: 6212C3		
20	Raw Water Pump	PTA	6	45 Kw, 86A, 380V, 1470 Rpm, DE Brg: 6218, NDE Brg: 6314		
21	Aux: Oil Pump	Turbine Basement	1	132 Kw, 233A, 380V, 2960 Rpm, DE Brg: 6312C3, NDE Brg: 6212C3		
22	Jacking Oil Pump	Turbine Basement	1	55 Kw, 103A, 380V, 970 Rpm, DE Brg: 6316, NDE Brg: 6213		
23	Service Water Pump	Demi Plant	3	30 Kw, 54A, 380V, 2940 Rpm, Brg: 6212 ZZC3		
24	Demi Water Pump	Demi Plant	3	15 Kw, 27A, 380V, 2930 Rpm, DE Brg: 6309ZZ, NDE Brg: 6308ZZ		
25	Demineralizer Trans Pump	Demi Plant	3	5.5 Kw, 11.5A, 380V, 2920 Rpm, DE Brg: 6308ZZ, NDE Brg: 6307ZZ		
26	Filter Equip Trans Pump	Demi Plant	3	15 Kw, 28.5A, 380V, 1465 Rpm, DE Brg: 6312ZZ, NDE Brg: 6210ZZ		
27	Coagulant Agitator	PTA	3	5.5 Kw, 11A, 380V, 1440 Rpm, DE Brg: 6308ZZ, NDE Brg: 6207ZZ		
28	AOP of BFP	Turbine Basement	3	7.5 Kw, 15A, 380V, 1445 Rpm, DE Brg: 6308ZZ, NDE Brg: 6207ZZ		
29	Booster Pump	Turbine Basement	1	7.5 Kw, 14.5A, 380V, 2925 Rpm, DE Brg: 6309ZZ, NDE Brg: 6308ZZ		
30	Regeration Water Pump	Demi Plant	2	3.7 Kw, 7.2A, 380V, 2875 Rpm, DE Brg: 6306ZZ, NDE Brg: 6206ZZ		
31	Long Soot Blower Motor	Boiler	18	0.75 Kw, 2.5A, 380V, 920 Rpm, Make England		
32	Small Soot Blower Motor	Boiler	18	0.75 Kw, 2.5A, 380V, 920 Rpm, Make England		

NAME PLATE DATA OF MAJOR EQUIPMENTS OF BOILER UNIT NO.01 JPCL JAMSHORO

Sr No:	Name of equipment & Description	Qty:
1.	**High Pressure Boiler** Type: Natural Circulation Pressurized Furnace Max Evaporation: 795,600kg /Hr Design pressure: 196.2kg/cm2 Steam temperature at Super heater & Reheater Outlet : 541C Design Pressure for RH: 53.4kg/cm2 Heating Surface of SH,RH & Econo: 17533m^2 MAKE : Mitsui Engg & Ship Building Co ltd Japan	**01**
2.	**Forced Draft Fan** Type: TA-FV-ICD , Capacity : 7700m^3/min, Total Pressure: 1220 mmAq Speed : 980 rpm Weight:27.7Ton Make: Nakashima Mfg Co Ltd Japan	02 Set
3.	**Gas Recirculation Fan** Type: NV-ICD (Turbo Vane ,horizontal Shaft) Manufac: No. 870572-1A Capacity: 20803740 M^3/ min Total pressure :430/300 mmAg Manuf date : march 1988 Make: Nakashima Manufact Co Ltd Japan	**02 Set**
4.	**Air Pre Heater** Type: 26-VIX-2550 (LJUNGSTROM REGENERATIVE) Total Heating surface: 19960 m^2/Set Speed:0.90 rpm Dimension of Rotor:7930mm Length of Housing:9830mm Width of Housing:9126mm Height of Housing:5875mm Total Weight:230000Kg/Set Make: Gadelius K.K,Kobe. Japan	**02 Set**
5.	**Steam Coil Air Pre Heater** Type:HP-4R-57(56)-3000 Surface Area:1637m^2 Design Presuure:10Kg/cm^2 Design Temperature:350^oC Serial No:5650 Manufacturing No:10 387A1-3 Net weight:8000Kg Make:Seo,Koatsu Kogyo.Co,Ltd Osaka Japan	**02 Set**

6.	**Oil Burner** Type:JHY-SFV-600SR Burner Type:Venturi type Steam Jet Oil Burner Fuel Oil Burning Capacity:3250Kg/Hr Atomizing Oil Pressure:20Kg/cm^2 Atomizing Steam Pressure: 10Kg/cm^2 Atomizing Steam Consumption:163Kg/Hr Make:Volcano Co, Ltd Osaka Japan	**18Set**
7.	**Ignitor** Type: Electric spark/Diesel oil ignition Atomizing Oil Pressure:2Kg/cm^2 Atomizing Air Pressure: 3Kg/cm^2 Atomizing Air Consumption:75NI/min Electric source: S/Phase 110V,50Hz Make: Volcano Co, Ltd Osaka Japan	**18Set**
8.	**Steam Converter** Surface Area: 72m^2 Sr No:5649A Design Pressure:5.5Kg/ cm^2(Shell Side) Design Temp:305^{o}C(Shell Side) Hydro Test Pressure:8.3Kg/ cm^2(Shell Side) Design Pressure:21Kg/ cm^2(Tube Side) Design Temp:325^{o}C(Tube Side) Hydro Test Pressure:31.53Kg/ cm^2(Tube Side) Weight(Empty): 7000Kg Make:Seo,Koatsu Kogyo.Co,Ltd Osaka Japan	**01**
9.	**Steam Converter drain Cooler** Surface Area : 10 m^2 Manuf: Sr No : 5649.C Make: Seo Kuatsu Kogyo Co Ltd Japan	**01**
10.	**House Boiler** Model No:FM-10-70 Sr No:8872 Max Working Pressure:10 Kg/ cm^2 Max Steam Evaporation:20 Ton/hr Heating Surface:349 m^2 Year Built:1988 Make:Hyundai Hevy Industries Co, Ltd Japan	**01**
11.	**House Boiler Feed Water Tank** Capacity:6.0 m^3 Design Pressure:1 M above top pressure Design Temp:60 ^{o}C Year Built:1988 Make:Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan Weight (Empty): 1150Kg	**01**
12.	**House Boiler Forced Draft Fan** Type: TA-BD Flow Rate: 480 m^3/min Speed:1460 rpm Pressure:360 mmAq	**01**

	Temperature:50 °C Shaft Power: 37kW Weight:2370Kg Make:Nakashima Manufacturing Co:Ltd	
13.	**House Boiler Drain Recovery Tank** Capacity:7.0 m^3 Design Pressure:1 M above top pressure Design Temp:95 °C Year Built:1988 Make:Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan Weight (Empty): 2010Kg	**01**
14.	**Steam Drum** Outer Dia:1676mm Wall thickness:172mm Design Press:196.2 Kg/ cm^2 Design Temp: 362 °C Material:SA-299(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**01**
15.	**Boiler Drum Safety Valve** Type:SV501,SV502,SV503 Full lift spring loaded Size:75mm Model: 7418F DRG No:PF-7418075-1 Make:Okana Valve Mfg:Co,Ltd Japan	**03**
16.	**Economizer Element Tubes** Outer Dia:50.8mm Wall thickness:4.9mm Design Press:199.7 Kg/ cm^2 Design Temp: 371 °C Material:SA-210Gr-A-1(ASME) Make: Nippon Steel Japan	
17.	**Convection Roof Wall tubes** Outer Dia:76.2mm Wall thickness:7.2mm Design Press:196.2 Kg/ cm^2 Design Temp: 371 °C Material:SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
18.	**Convection Rear Wall tubes** Outer Dia:69.85mm Wall thickness:6.6mm Design Press:196.2 Kg/ cm^2 Design Temp: 371 °C Material:SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
19.	**Convection Roof Wall Feeder tubes** Outer Dia:127mm	

	Wall thickness:12mm Design Press:196.2 Kg/ cm^2 Design Temp: 362 ^oC Material:SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
20.	**Primary Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.4mm Design Press:196.2 Kg/ cm^2 Design Temp: 371 ^oC Surface Area:2187 m^2 Material:SA-106Gr-C(ASME) DRG No:IB-36872 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
21.	**Primary Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.7mm Design Press:196.2 Kg/ cm^2 Design Temp: 389 ^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
22.	**Primary Superheater Element Tubes** Outer Dia:5.5mm Wall thickness:5.4mm Design Press:196.2 Kg/ cm^2 Design Temp: 448 ^oC Material:SA-209Gr-T1a(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**53 Coils**
23.	**Primary Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.6mm Design Press:196.2 Kg/ cm^2 Design Temp: 469 ^oC Material:SA-213Gr-T11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
24.	**Primary Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.6mm Design Press:196.2 Kg/ cm^2 Design Temp: 440 ^oC Material:SA-213Gr-T11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
25.	**Sec: Superheater Element Tubes** Outer Dia:57.15mm	**52Coils**

	Wall thickness:5.4mm Design Press:196.2 Kg/ cm^2 Design Temp: 427 ^oC Material:SA-209Gr-T1a(ASME) DRG No:1B36864 Make: Nippon Steel Japan	
26.	**Sec: Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.4mm Design Press:196.2 Kg/ cm^2 Design Temp: 437 ^oC Material:SA-209Gr-T1a(ASME) Make: Nippon Steel Japan	
27.	**Sec: Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.5mm Design Press:196.2 Kg/ cm^2 Design Temp: 452 ^oC Material:SA-209Gr-T1a(ASME) Make: Nippon Steel Japan	
28.	**Sec: Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:5.7mm Design Press:196.2 Kg/ cm^2 Design Temp: 475 ^oC Material:SA-213Gr-T11(ASME) Make: Nippon Steel Japan	
29.	**Sec: Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:8.8mm Design Press:196.2 Kg/ cm^2 Design Temp: 529 ^oC Material:SA-213Gr-T11(ASME) Make: Nippon Steel Japan	
30.	**Sec: Superheater Element Tubes** Outer Dia:57.15mm Wall thickness:6.2mm Design Press:196.2 Kg/ cm^2 Design Temp: 495 ^oC Material:SA-213Gr-T11(ASME) Make: Nippon Steel Japan	
31.	**Final Superheater Element Tubes** Outer Dia:50.8mm	

	Wall thickness:5.6mm Design Press:196.2 Kg/ cm^2 Design Temp: 479 ^oC Material:SA-213Gr-T11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
32.	**Final Superheater Element Tubes** Outer Dia:50.8mm Wall thickness:5.9mm Design Press:196.2 Kg/ cm^2 Design Temp: 599 ^oC Material:SA-213TP347H(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
33.	**Final Superheater Element Tubes** Outer Dia:50.8mm Wall thickness:5.3mm Design Press:196.2 Kg/ cm^2 Design Temp: 594 ^oC Material:SA-213TP347H(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
34.	**Final Superheater Element Tubes** Outer Dia:50.8mm Wall thickness:5.7mm Design Press:196.2 Kg/ cm^2 Design Temp: 607 ^oC Material:SA-213TP347H(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
35.	**Final Superheater Element Tubes** Outer Dia:50.8mm Wall thickness:10.9mm Design Press:196.2 Kg/ cm^2 Design Temp: 569 ^oC Material:SA-213Gr-T22(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
36.	**Final Superheater Safety Valve** Type:SV504,SV505 Size:50mm Model No:7418F DRG No:PF-7418501 Make:Okana Valve Mfg: Co,Ltd Japan	**02**
37.	**Primary Reheater Element Tubes** Outer Dia:76.2mm Wall thickness:5.4(7.7)mm Design Press:53.4 Kg/ cm^2 Design Temp: 417 ^oC Material:SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
38.	**Primary Reheater Element Tubes** Outer Dia:76.2mm	

	Wall thickness:5.4(7.7)mm Design Press:53.4 Kg/ cm^2 Design Temp: 447 ^oC Material:SA-209Gr-T1A(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
39.	**Primary Reheater Element Tubes** Outer Dia:76.2mm Wall thickness:5.4(7.7)mm Design Press:53.4 Kg/ cm^2 Design Temp: 484 ^oC Material:SA-213Gr-T11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
40.	**Primary Reheater Element Tubes** Outer Dia:69.8mm Wall thickness:4.9 mm Design Press:53.4 Kg/ cm^2 Design Temp: 543^oC Material:SA-213Gr-T22(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
41.	**Final Reheater Element Tubes** Outer Dia:69.85mm Wall thickness:4.9(7) mm Design Press:53.4 Kg/ cm^2 Design Temp: 541^oC DRG No:IB-36869 Material:SA-213Gr-T22(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**26 Coils**
42.	**Final Reheater Element Tubes** Outer Dia:69.85mm Wall thickness:4.5 mm Design Press:53.4 Kg/ cm^2 Design Temp: 577^oC Material:SA-213TP347H(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
43.	**Final Reheater Element Tubes** Outer Dia:57.15mm Wall thickness:4 mm Design Press:53.4 Kg/ cm^2 Design Temp: 579^oC Material:SA-213TP347H(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
44.	**Final Reheater Element Tubes** Outer Dia:44.45mm Wall thickness:3.2 mm Design Press:53.4 Kg/ cm^2 Design Temp: 611^oC Material:SA-213TP347H(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	

45.	**Final Reheater Element Tubes** Outer Dia:57.15mm Wall thickness:4.0 mm Design Press:53.4 Kg/ cm^2 Design Temp: 569^oC Material: SA-213Gr-T22(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
46.	**Furnace Side Water Wall Tubes** Outer Dia:69.85mm Wall thickness:7.1 mm Design Press:196.2 Kg/ cm^2 Design Temp: 427^oC Wight:96.7Kg Length:8000mm Material: SA-209Gr-T1a(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**1617Nos**
47.	**Furnace Side Water Wall Tubes** Outer Dia:69.85mm Wall thickness:6.7 mm,Length:8000mm Design Press:196.2 Kg/ cm^2 Design Temp: 378^oC Wight:83.5Kg Material: SA-210Gr-A-1(ASME) DRG No:BA-2111,BA-2101,BA-2102 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
48.	**Furnace Rear Water Wall Tubes** Outer Dia:69.85mm Wall thickness:7.5 mm,Length:8000mm Design Press:196.2 Kg/ cm^2 Design Temp: 393^oC Weight:92.3kg Material: SA-210Gr-A-1(ASME) DRG No:BA-2101 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**1617Nos**
49.	**Furnace Rear Water Wall Tubes** Outer Dia:69.85mm Wall thickness:7.1 mm,Legth:8000mm Design Press:196.2 Kg/ cm^2 Design Temp: 427^oC Weight:96.7Kg Material: SA-209Gr-T1a(ASME) DRG No:BA-2102 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**8767 NOs**
50.	**Furnace Rear Water Wall Tubes** Outer Dia:69.85mm Wall thickness:6.7 mm Design Press:196.2 Kg/ cm^2 Design Temp: 378^oC	

	Material: SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
51.	**Furnace Rear Water Wall Tubes** Outer Dia:76.2mm Wall thickness:7.3 mm,Length:8000mm Design Press:196.2 Kg/ cm^2 Design Temp: 379^oC Wieght:99.2kg Material: SA-210Gr-A-1(ASME) DRG No:BA-2102 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**3600Nos**
52.	**Furnace Front Water Wall Tubes** Outer Dia:69.85mm Wall thickness:7.5 mm,Length:8000mm Design Press:196.2 Kg/ cm^2 Design Temp: 393^oC Weight:92.3kG Material: SA-210Gr-A-1(ASME) DRG No:BA-2102 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**1617 NOs**
53.	**Furnace Front Water Wall Tubes** Outer Dia:69.85mm Wall thickness:7.1 mm,Length:8000mm Design Press:196.2 Kg/ cm^2 Design Temp: 427^oC Weight:96.7Kg Material: SA-209Gr-T1a(ASME) DRG No:BA-2101,BA-2102 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**8767 NOs**
54.	**Furnace Front Water Wall Tubes** Outer Dia:69.85mm Wall thickness:6.7 mm Design Press:196.2 Kg/ cm^2 Design Temp: 378^oC Material: SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
55.	**Furnace Front Water Wall Tubes** **Outer Dia:76.2mm** **Wall thickness:7.3 mm** **Design Press:196.2** Kg/ cm^2 **Design Temp:** 379^oC Material: SA-210Gr-A-1(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
56.	**Furnace water wall stringer tubes** Outer Dia:69.85mm Thickness:6.7mm Design pressure:196.2 Kg/ cm^2 Design Temp:378 ^oC	

	Material(Asme): SA-210Gr.A-1	
57.	**Furnace side wall feeder tubes** Outer Dia:127.0mm Thickness:12.0mm Design pressure:198.0 Kg/ cm^2 Design Temp:362 ^oC Material(Asme): SA-210Gr.A-1	
58.	**Furnace side wall Releaser tubes** Outer Dia:127.0mm Thickness:12.0mm Design pressure:196.2 Kg/ cm^2 Design Temp:362 ^oC Material(Asme): SA-210Gr.A-1	
59.	**Furnace rear wall releaser tubes** Outer Dia:127.0mm Thickness:12.0mm Design pressure:198.0 Kg/ cm^2 Design Temp:362 ^oC Material(Asme): SA-210Gr.A-1	
60.	**Furnace Front wall releaser tubes** Outer Dia:127.0mm Thickness:12.0mm Design pressure:198.0 Kg/ cm^2 Design Temp:362 ^oC Material(Asme): SA-210Gr.A-1	
61.	**Economizer Header** Outer Dia:273.1mm Wall thickness:35mm Design Press:199.7 Kg/ cm^2 Design Temp: 343 ^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
62.	**Economizer** Outer Dia:273.1mm Wall thickness:35mm Design Press:199.7 Kg/ cm^2 Design Temp: 343 ^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
63.	**Economizer to Drum Pipes** Outer Dia:219.1mm Wall thickness:20.7mm Design Press:199.7 Kg/ cm^2 Design Temp: 343 ^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
64.	**Primary superheater inlet header** Outer Dia:323.9mm	

	Wall thickness:51mm Design Press:196.2 Kg/ cm^2 Design Temp: 369 ^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
65.	**Primary superheater Outlet header** Outer Dia:323.9mm Wall thickness:40mm Design Press:196.2 Kg/ cm^2 Design Temp: 446 ^oC Material:SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
66.	**Secondary Superheater inlet header** Outer Dia:355.6mm Wall thickness:50mm Design Press:196.2 Kg/ cm^2 Design Temp: 424 ^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
67.	**Secondary Superheater Outlet header** Outer Dia:355.6mm Wall thickness:50mm Design Press:196.2 Kg/ cm^2 Design Temp: 494 ^oC Material:SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
68.	**Final Superheater Inlet header** Outer Dia:406.4mm Wall thickness:52mm Design Press:196.2 Kg/ cm^2 Design Temp: 494 ^oC Material:SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
69.	**Final Superheater Outer header** Outer Dia:406.4mm Wall thickness:75mm Design Press:196.2 Kg/ cm^2 Design Temp: 558 ^oC Material:SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
70.	**Convection Roof Header** Outer Dia:273.1mm Wall thickness:46mm Design Press:196.2 Kg/ cm^2 Design Temp: 362^oC Material:SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
71.	**Prim:S.H to Sec:S.H crossover pipes (Before spray)**	

	Outer Dia:323.9mm Wall thickness:33.0(39.0)mm Design Press:196.2 Kg/ cm^2 Design Temp: 446^oC Material: SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
72.	**Prim:S.H to Sec:S.H crossover pipes (After spray)** Outer Dia:323.9mm Wall thickness: 39.0(43.0)mm Design Press:196.2 Kg/ cm^2 Design Temp: 424^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
73.	**Sec:S.H to Final Superheater crossover pipes (Before spray)** Outer Dia:355.6mm Wall thickness:43.0(47.0)mm Design Press:196.2 Kg/ cm^2 Design Temp: 494^oC Material: SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
74.	**Sec:S.H to Final Superheater crossover pipes (After spray)** Outer Dia:355.6mm Wall thickness:43.0(47.0)mm Design Press:196.2 Kg/ cm^2 Design Temp: 494^oC Material: SA-335Gr-P11(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
75.	**Primary Reheater Inlet Header** Outer Dia:457.2mm Wall thickness:29.3mm Design Press:53.4 Kg/ cm^2 Design Temp: 343^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
76.	**Final Reheater Outlet Header** Outer Dia:508mm Wall thickness:44.5mm Design Press:53.4 Kg/ cm^2 Design Temp: 569^oC Material: SA-335Gr-P22(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
77.	**Hopper Bottom Header** Outer Dia:558.8mm Wall thickness:71mm Design Press:198 Kg/ cm^2 Design Temp: 362^oC Material: SA-335Gr-P22(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
78.	**Lower side Water Wall Header**	

	Outer Dia:273.1mm Wall thickness:39mm Design Press:198 Kg/ cm^2 Design Temp: 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
79.	**Upper Front Water Wall Header** Outer Dia:273.1mm Wall thickness:46mm Design Press:196.2 Kg/ cm^2 Design Temp: 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
80.	**Upper Front Releaser Header** Outer Dia:273.1mm Wall thickness:39mm Design Press:196.2 Kg/ cm^2 Design Temp: 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
81.	**Upper Rear Water Wall Header** Outer Dia:273.1mm Wall thickness:39mm Design Press:196.2 Kg/ cm^2 **Design Temp:** 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
82.	**Upper Rear Releaser Header** Outer Dia:273.1mm Wall thickness:39mm Design Press:196.2 Kg/ cm^2 Design Temp: 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
83.	**Upper Side Water Wall Header** Outer Dia:273.1mm Wall thickness:39mm Design Press:196.2 Kg/ cm^2 Design Temp: 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
84.	**Downcomers** Outer Dia:508mm Wall thickness:50(46)mm Design Press:198 Kg/ cm^2 Design Temp: 362^oC Material: SA-106Gr-C(ASME) Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
85.	**Final Super heater tube element**	

	DRG No:1342-105 Make:Harbi	
86.	**Reheater**	
87.	**Retractable Soot Blowers (Long)** Model:STR-8E DRG No:770-00241 Travelling carriage assembly:(6+6) Make:Mitsubishi Heavy Industries Ltd,Hiroshima Japan	**28 Nos**
88.	**Retractable Soot Blowers (Half)** Model:STR-8E Make:Mitsubishi Heavy Industries Ltd,Hiroshima Japan	**10Nos**
89.	**Scanner Fan**	**02 Nos**
90.	**Head valves**	
91.	**Feed water regulating valve**	
92.	**Flame Detector Cooling Air Fan** Fan Type:Turbo Van Inlet Volume Flow: 20m^3/min Inlet Temp: 35^oC Shaft Speed: 2915 Rpm Inlet/Outlet Pressure: -14/1500mmAg Fan Eff:41.3 Shaft Power:11.6kW Fan Weight:0.65Ton Make:	**02 Set**
93.	**Seal Air Booster Fan** Fan Type:Turbo Van Inlet Volume Flow: 100m^3/min Inlet Temp: 50^oC Shaft Speed: 2920 rpm Inlet/Outlet Pressure: 918/1243mmAg Shaft Power:8.2kW Fan Weight:0.55Ton	**01 Set**
94.	**Blow Down Tank** Manuf:Sr No:MM8801 Capacity:16.3 m^3 Design Presuure:9.5 Kg/ cm^2 Design Temp: 180^oC Hydro Test Pressure:14.25 Kg/ cm^2 Weight (Empty):5400Kgf Make:Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**01**
95.	**Makeup water Storage Tank** Design Pr: Fullwater Volume :200 M ^{3} Temp:50 ^oC Year Built:1988 Make: Hitachi Zosan Tank & System Inc Fuji Electric Co Ltd Japan	**01**
96.	**Residual oil service Tank** Capacity:250 M ^{3} Design Pressure: ATM Design Temperature: 50 ^oC	**01**

	Code:JIS B8501 Tank Diameter: 7300mm Tank Height: 6923mm Year Built: 1989 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	
97.	**HSD Oil Serivce Tank** Capacity:250 M^3 Design Pressure: ATM Design Temperature: 50 ^oC Code:JIS B8501 Tank Diameter: 7300mm Tank Height: 6923mm Year Built: 1989 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**01**
98.	**Oil Drain Collecting Tank** Capacity:81 M^3 Design Pressure: 1m Above top Pressure Design Temperature: 60 ^oC Code:JIS Weight(Empty):1169kgf Year Built: 1988 Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**01**
99.	**Residual Oil Pump** Type:GH-R3T-44I Capacity:34 m^3/hr Disch:Pressure:28.5 Kg/ cm^2 Suction Presuure:-0.4 Kg/ cm^2 Speed:1450 rpm Sr No: P3-29856-3 Total Weight:965kg Year Built:1988 Make:Kosaka lab:Ltd Tokyo Japan	**03**
100.	**Residual Oil Heater** Type:BFU-HORI Heating Surface:410 m^2 Oil Flow:60700 kg/hr Steam Flow:3.855 kg/hr Steam pressure:2.5/5.5 Inlet & Outlet kg/ cm^2 Oil Pressure inlet/Outlet pressure:28/32kg/ cm2 Material :Carbon Steel Make: SEO KOATSU KOGYO Co, Ltd. Japan	
101.	**HSD Oil Pump** Type:GH-R2T-146 Capacity:8 m^3/hr Disch:Pressure:12 Kg/ cm^2 Suction Presuure:-0.4 Kg/ cm^2 Speed:1450 rpm Sr No: P3-29857-1 Total Weight:347kg Year Built:1988	**03**

	Make:Kosaka lab:Ltd Tokyo Japan	
102.	**RO Filter Strainer** Item No:ST-530 Model No:BD-15L Conn:Size: 250A Manuf:No:88-1060 Make: Yamamoto Kouki Co, Ltd Tokyo Japan	**04**
103.	**Fuel Oil Additive Tank** Capacity:15KL Material:SUS-304 Built Year:1988 Make:Toa Nekken Co, Ltd Japan	
104.	**ON-OFF Damper (GAH Air Inlet)** Kind of Damper: louver (Inlet)(7LDP) Flow Thru Damper:451250 Temp:Nor,90 ^{o}C Max:100 ^{o}C Motor Power:2.2kW Actuator: Motor Cylinder: Electrically operated Type:DG060-7JL 3-Phase,380V.50Hz weight :8500 kg Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**02 Set**
105.	**ON-OFF Damper (GAH Air Outlet)** Kind of Damper louver:(P8LD) Flow Thru Damper:644450 Nm^3/hr Temp:Nor,284 ^{o}C Max:290 ^{o}C Actuator: Warm gear operated. Type:BRF-30 weight :10000 kg Make: Mitsui Engg:& ShipBuilding Co, Ltd Okayama Japan	**02 Set**
106.	**Furnace Thermo Probe**	
107.	**HP Bypass spray water control Valve** Model: VD 36RRa/SMH75C Type:VD-36RR Material Body: A105 Stem: X40Cr13 Press:Rating: ANSI2500 Dim:Drawing: 5314770 Make: EUR-Control Kalle AB Sweden	**01**
108.	**HP Bypass spray water Shutoff Valve** Model: VF S50/SMH75C Type:VFS-50a Material Body: ASTM A182-F12	**01**

	Stem: X19CrMoVNbN111 Make: BTG Kalle inventing AB Sweden	
109.	**Hand Wheel/Motorize Globe Valve** Size:50mm, 20mm, 25mm, 15mm Class: 2500 Material: A105/A182 Make: Okano Mfg. Co Japan Hand Wheel Valve Qty: 50mm (20 Nos),25mm (60 Nos), 20mm (50 Nos), 15mm (70Nos) Motorised Valve Qty: 65mm(02 Nos), 50mm (06 Nos)	**20** **60** **50** **70** **02** **06**

CONFIRMATORY DOCUMENT

THE ISLAMIC REPUBLIC OF PAKISTAN

NOOR JAHAN & COMPANY
1, Nursery Lane
Lawrence Road
LAHORE

WATER AND POWER DEVELOPMENT AUTHORITY

DATA SHEET

FOR

OIL-FIRED THERMAL POWER STATION PROJECT

JAMSHORO-UNIT No.1 LOT- I

VOLUME II

MITSUI & CO., LTD.

TOKYO, JAPAN

Id. Yoneda

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DATA SHEET

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SECTION I

POWER PLANT UNIT

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Tenderer's Data Sheet.

MITSUI & CO., LTD.
(Tenderer's Name)

I. POWER PLANT UNIT

1. Guaranteed Plant Performance

1.1 Average net plant heat rate

(1) Guaranteed average net plant heat rate (Weighted average of net plant heat rates)	(kcal/KWH)	2329.5 or less
(2) Net plant heat rate (kcal/KWH)		
at rated output	~~(KW)~~	2284
at 75% of rated output	~~(KW)~~	2348.6
at 50% of rated output	~~(KW)~~	2475.6

1.2 Plant maximum load

Generator output	(KW)	262,500
Main steam pressure at turbine throttle	(kg/cm^2g)	169
Main steam temperature at turbine throttle	(^oC)	538
Reheat steam temperature at reheat stop valve	(^oC)	538
Condenser pressure	(mmHg abs.)	82.55
Make-up water	(%)	0
Power factor		0.85

1.3 MCR

Generator output	(KW)	250,000
Main steam pressure at turbine throttle	(kg/cm^2g)	169
Main steam temperature at turbine throttle	(^oC)	538 → 1000°F
Reheat steam temperature at reheat stop valve	(^oC)	538 → 1000°F

M. Itsuka

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Condenser pressure	(mmHg abs.)	132
Make-up water	(%)	1
Power factor		0.85

1.4 Plant minimum load

Generator output	(KW)	50,000
Main steam pressure at turbine throttle	(kg/cm^2g)	169
Main steam temperature at turbine throttle	(^oC)	513 → 955°F
Reheat steam temperature at reheat stop valve	(^oC)	465 → 869°F
Condenser pressure	(mmHg.abs)	82.55
Make-up water	(%)	0
Power factor		0.85

1.5 Auxiliary Load (House Load)

5th Issue-AAA

At rated output	(KW)	15,350
At 75% of rated output	(KW)	13,200
At 50% of rated output	(KW)	9,750

I. Yonada

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2. Plant Starting Time

	Cold start	Start after 8 hour shutdown	Start directly after MFT
From light-off → Steam admission to turbine (min)	195 (3 Hrs 15 MN)	40	10
Steam admission - Synchronizing to turbine (min)	60 (1 Hr)	5	5
Synchronizing - Full load (min)	210 (3 Hrs 30 MN)	45	30
Total time (min)	465 (7 Hrs 45 MN)	90	45

I. Gouda

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SECTION II

STEAM GENERATOR AND AUXILIARY EQUIPMENT

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SECTION-II: STEAM GENERATOR AND AUXILIARY EQUIPMENT

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Tenderer's Data Sheet — MITSUI & CO., LTD. (Tenderer's Name)

II. STEAM GENERATOR AND AUXILIARY EQUIPMENT

Note: The Contractor shall guarantee the values with ≠ marks.

1. STEAM GENERATOR

(1)	Type		MITSUI-RILEY ISR TYPE BOILER
(2)	Manufacturer		RILEY-MITSUI CONSORTIUM
(3)	Number		1
(4)	Steam generating capacity at plant maximum load	(kg/H)	≠ 795,600
(5)	Design pressure	(kg/cm^2g)	196.2
(6)	Design temperature	(°C)	N.A.
	Superheater outlet		546
	Reheater outlet		546
(7)	Furnace release rate at plant maximum load		

Note: Use the definition of American Boiler Manufacturer's Association for the furnace release rate.

Heat available in the furnace	(kcal/H)	581.7×10^6
Heat absorbing surface	(m^2)	2,014
Furnace release rate	($kcal/H/m^2$)	288,800
(8) Total weight	(t) approx.	2,585 →
Steam generator complete except steel structure	(t)	1,593 → ×
Drum	(t)	147
Boiler supporting steel structure	(t)	992 → ×

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(9) Holding water capacity

Normal operation	(m^3)	122
Hydrostatic test	(m^3)	250

(10) Maximum size for shipping (max. m) 19.0

Name of part WATER WALL PANEL

(11) Maximum weight for shipping (tons) approx. 150

Name of part STEAM DRUM (INCL. INTERNALS)

H. Yonetsu

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MITSUI & CO., LTD.
(Tenderer's Name)

(13) Performance data of steam generator

Items \ Load	Unit	Minimum Load (50)MW	50% (125)MW	75% (187.5)MW	ECR (250)MW	MCR (250)MW	Maximum Load (262.5)MW
Steam generation	(kg/H)	177,300	364,300	546,800	748,100	782,400	* 795,600
Drum pressure	(kg/cm^2g)	169.9	172.7	177.4	184.7	186.1	186.7
SH outlet pressure	(kg/cm^2g)	169.3	170.3	171.9	174.4	174.9	175.1
RH outlet pressure	(kg/cm^2g)	8.6	18.8	28.2	38.5	40.4	40.9
Econ. inlet pressure	(kg/cm^2g)	171.5	174.6	179.7	187.7	189.3	190.0
SH outlet temperature	(°C)	516	541	541	541	541	541
RH outlet temperature	(°C)	468	541	541	541	541	541
Steam generator efficiency	(%)	89.06	89.83	89.86	* 89.85	89.83	89.79
Feedwater temperature at Econ. inlet	(°C)	181.3	214.7	233.8	249.2	251.7	252.5
Fuel oil consumption	(kg/H)	12,600	26,520	38,030	49,710	51,710	52,640
High calorific value	(kcal/kg)	10,650	10,650	10,650	10,650	10,650	10,650
Furnace liberation rate	($kcal/H/m^3$)	65,500	142,800	201,300	259,300	269,500	274,300
Furnace release rate	($kcal/H/m^2$)	69,000	150,400	212,000	273,100	283,800	288,800
Air flow at AH inlet	(kg/H)	279,500	456,200	623,000	802,000	828,400	847,300
Air flow at AH outlet	(kg/H)	234,500	402,200	560,800	733,200	762,600	776,300
Gas flow at AH inlet	(kg/H)	249,500	430,500	601,600	785,300	816,800	831,400
Gas flow at AH outlet	(kg/H)	294,500	484,500	663,800	854,100	882,600	902,400
Excess air	(%)	32.5	8	5	5	5	5
CO_2 leaving steam generator	(%)	11.8	14.7	15.1	15.1	15.1	15.1

Note : Steam generator efficiency is in accordance with the Loss method of ASME PTC 4.1-1974 and includes 1% of uncounted loss.
Ambient air temperature is 35°C.

M. Yoshi

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Items \ Load	Unit	Minimum Load (50)MW	50% (125)MW	75% (187.5MW	ECR (250)MW	MCR (250)MW	Maximum Load (262.5)MW
Feedwater flow	(kg/H)	177,300	322,800	516,100	743,100	781,400	795,600
SH spray water flow	(kg/H)	0	41,500	30,700	5,000	1,000	0.0
RH spray water flow	(kg/H)	0	0	0	0	3,500	6,000
Gas temp. at furnace outlet	(°C)	721	924	1,050	1,157	1,171	1,178
Gas temp. at RH inlet	(°C)	721	924	1,050	1,157	1,171	1,178
Gas temp. at RH outlet	(°C)	332	406	434	460	464	467
Gas temp. at Econ. inlet	(°C)	332	406	434	460	464	467
Gas temp. at Econ. outlet	(°C)	207	266	286	303	307	309
Gas temp. at AH outlet	(°C)	125	133	137	139	140	141
Air temp. at FDF outlet	(°C)	46	46	45	45	45	45
Air temp. at SCAH outlet	(°C)	107	97	93	91	90	89
Air temp. at AH outlet	(°C)	200	251	267	279	282	283
Number of burners in use		12	12	18	18	18	18
Draft at FDF outlet	(mm H_2O)	116	407	576	866	943	977
Draft at wind box	(mm H_2O)	92	341	456	672	738	763
Draft at furnace	(mm H_2O)	62	232	358	507	553	571
Draft at Econ. outlet	(mm H_2O)	30	85	152	249	269	279
Draft at AH outlet	(mm H_2O)	9	29	57	95	104	108
Draft at stack inlet	(mm H_2O)	5	14	27	46	50	52
Solids in steam at SH outlet	(ppm)	0.03	0.03	0.03	0.03	0.03	0.03

Note: Steam generation shall be met completely with the throttle steam flow of steam turbine.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(14) Guaranteed performance data

(a)	Steam generator efficiency at ECR	± 89.85
	Heat losses of steam generator at ECR (%)	
	Total	10.15
	Heat loss due to heat in dry flue gas	3.30
	Heat loss due to moisture in the fuel	0.0
	Heat loss due to moisture from burning hydrogen	5.43
	Heat loss due to moisture in the combustion air	0.19
	Heat loss due to heat in atomizing steam	0.02
	Heat loss due to the formation of carbon monoxide	0.0
	Heat loss due to radiation and convection	0.21
	Heat loss due to un-counting losses	1.00
(b)	Steam generating capacity	
	Plant maximum load (Kg/H)	± 795,600
	MCR (Kg/H)	± 782,400
(c)	Steam pressure at H.P. turbine inlet	
	Plant maximum load	±169 kg/cm^{2}g ± 2 kg/cm^{2}g
	MCR	±169 kg/cm^{2}g ± 2 kg/cm^{2}g
	ECR	±169 kg/cm^{2}g ± 2 kg/cm^{2}g
	75% load	±169 kg/cm^{2}g ± 2 kg/cm^{2}g

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

50% load	≒ 169 kg/cm²g ± 2 kg/cm²g
Minimum load	≒ 169 kg/cm²g ± 2 kg/cm²g

(d) Steam temperature at H.P. turbine inlet

Maximum load	≒ 538°C ± 5 °C
MCR	≒ 538°C ± 5 °C
ECR	≒ 538°C ± 5 °C
75% load	≒ 538°C ± 5 °C
50% load	≒ 538°C ± 5 °C
Minimum load	~~538°C~~ 513°C ± 5 °C

(e) Steam pressure at I.P. turbine inlet

Maximum load	40.2 kg/cm²g ± 2 kg/cm²g
MCR	39.7 kg/cm²g ± 2 kg/cm²g
ECR	37.8 kg/cm²g ± 2 kg/cm²g
75% load	27.8 kg/cm²g ± 2 kg/cm²g
50% load	18.5 kg/cm²g ± 2 kg/cm²g
Minimum load	9.4 kg/cm²g ± 2 kg/cm²g

(f) Steam temperature at I.P. turbine inlet

Maximum load	≒ 538 °C ± 5 °C
MCR	≒ 538 °C ± 5 °C
ECR	≒ 538 °C ± 5 °C
75% load	≒ 538 °C ± 5 °C
50% load	≒ 538 °C ± 5 °C
Minimum load	465 °C ± 5 °C

M. Yoneda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(15) Furnace and boiler

Furnace surface	(m^2)	1,593	
Furnace volume	(m^3)	2,121	
Tube		Furnace	Boiler
Diameter	(mm)	69.85	69.85
Thickness	(mm)	7.0-7.2	6.9
Material		ANSI SA209 T1	ANSI SA210 A1
Header		Furnace	Boiler
Diameter	(mm)	558.8/273.1	273.1
Thickness	(mm)	63.2/42.0	40.5/50.0
Material		ANSI SA106 C	ANSI SA106 C
Number		1/6	10/6
Manhole number and size	(mm)	12 , ø450 x -	

(16) Data for steam generator at all high pressure feedvater heater bypass operation

Generator output	(MW)	250	
Steam generation	(T/H)	697	
Main steam temperature at turbine inlet	(^oC)	538	
Reheat steam temperature at turbine inlet	(^oC)	538	
Boiler metal temperature at the most highest parts and its name (area)	(^oC)	598 (FINAL SH)	
Feedvater temperature at the economizer inlet	(^oC)	188.6	
Spray water flow	(T/H)	43 (SH)	7 (RH)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(17)	Drum (steam drum)		-
	Internal diameter	(mm)	1,676
	Thickness	(mm)	166
	Length	(mm)	15,380
	Material		ANSI SA299
	Manhole size	(mm)	ø450 x -
	Number of thermocouples for metal temperature		7
(18)	Economizer		EXTENDED SURFACE DRAINABLE TYPE
	Type (include supporting method)		(SADDLE SUPPORT TYPE)
	Heating surface	(m^2)	8,011
	Tube		
	Distance between tube and tube	(mm)	HORIZONTAL : 123.9 VERTICAL : 114.3
	Diameter	(mm)	50.8 OD
	Thickness	(mm)	5.9
	Material		ANSI SA210 A1
	Header		
	Number		2
	Diameter	(mm)	273.1 OD
	Thickness	(mm)	31.6
	Length	(mm)	13,380
	Material		ANSI SA106 C
	Manhole number and size	(mm)	2 , ø450 x -
	Bypass line of economizer		~~YES~~ (NO)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(19) Superheater and attemperator

Type of superheater		DRAINABLE TYPE		
Heating surface	(m^2)	Primary	Secondary	Final
Radiant		-	-	356
Radiant & convection		-	-	-
Convection		2,458	1,214	-
Tube		Primary	Secondary	Final
Distance between tube and tube	(mm)	HOR. 123.9 VER. 114.3	247.7 114.3	495.3 101.6
Diameter	(mm OD)	57.15	57.15	50.8
Thickness	(mm)	5.9-6.8	5.9-7.9	5.4-5.8
Material		SA210 A1 SA209 T1	SA210 A1 SA209 T1 SA213 T11 SA213 321H	SA213 T22 SA213 321H SA213 347H *
Header				
Number		2	2	2
Diameter	(mm)	323.9	355.6	406.4
Thickness	(mm)	38.3/35.3	39.2/46.6	44.9/72.7
Material		SA106 C SA335 P11	SA106 C SA335 P11	SA335 P11 SA335 P22
Size of outlet connection nozzles (mm in nominal)		300	350	350
Spacer material		SB-409 UNS NO 8810	INCONEL 601	INCONEL 601
Number of thermocouples for metal temperature		5	5	24
Steam temperature control range		40% MCR TO MAX. LOAD		
Attemperator				
Type		SPRAY WATER TYPE		
Number		4		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(20) Reheater and attemperator

		Primary	Secondary	Final
Type of reheater		DRAINABLE TYPE		
Heating surface	(m^2)			
Radiant		-	-	523
Radiant and convection		-	-	-
Convection		3,203	-	-
Tube				
Distance between tube and tube	(mm)	HOR.123.9 VER.152.4	N.A.	495.3 139.7/101.6
Diameter	(mm OD)	76.2	N.A.	44.5 69.85/ 50.8
Thickness	(mm)	5.4	N.A.	3.8 - 4.8
Material (ANSI)		SA210 A1 SA209 T1 SA213 T11	N.A.	SA213 T22 SA213 321H SA213 347H *
Header				
Number		1	N.A.	1
Diameter	(mm)	457.2	N.A.	508.0
Thickness	(mm)	19.1	N.A.	31.0
Material		SA106C	N.A.	SA335P22
Size of outlet connection nozzle	(mm in nominal)	N.A.	N.A.	500
Spacer material		ANSI SA240TP304	N.A.	INCONEL 601
Number of thermocouples for metal temperature		N.A.	N.A.	24
Steam temperature control range		50% MCR TO MAX. LOAD		
Attemperator				
Type		SPRAY TYPE		
Number		1		
Material		BODY : SA105 NOZZLE: SUS316		

*15th Issue-7

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Tenderer's Date Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

			Inner	Outer
(21)	Casing			
	Material		CARBON STEEL	ALUMI ALLOY 0.6 RIBBED
	Thickness	(mm)	3.2	1.0 FLAT
	Total number of inspection hole (peep hole) for steam generator		16	
(22)	Total number of valve			
	Safety valve number and type			11th Issue-15
	Drum		3: FULL BORE 1: RELIEF VALVE	
	Superheater including PCV		1: FULL BORE 4: INLET FULL BORE	
	Reheater		1: OUTLET FULL BORE	
(23)	Gas air preheater			
	Type		REGENERATIVE TYPE	
	Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110	
	Number		2 SETS	
	Total heating surface of gas side per set	(m^2)	19,400	
	Speed	(rpm)	1.49	
	Material and thickness	(mm)	-	
	Hot end		MILD STEEL, 0.6 mm	
	Intermediate		CORROSION RESISTANCE LOW ALLOY STEEL, 0.6 mm	
	Cold end		ENAMELLED STEEL, 1.2 mm	
	Housing		MILD STEEL, 6 mm	
	Weight complete	(t/each)	230	
(24)	Steam coil air preheater			
	Type		FIN TUBE TYPE	
	Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110	

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Tenderer's Data Sheet — MITSUI & CO., LTD. (Tenderer's Name)

Number		2 SETS
Heating surface (each coil)	(m^2)	APPROX. 1,500
Number of heating section		2
Weight complete	(kg/each)	5,000 ✓

(25) Burners and igniters

(a) Burner

Type		STEAM ATOMIZED BURNER REF. TO ATTACHMENT
Manufacturer		85P6177-ML-110
Number		18 SETS
Capacity	(kg/H each)	
Residual oil		3,250
Warm-up oil		1,620 ~~1,300~~ */** ✓
Pressure	(kg/cm^2g)	
Residual oil		20.0
Warm-up oil		7.3 ~~6.0~~ ** ✓
Atomizing steam		
Pressure	(kg/cm^2g)	5.0
Capacity	(kg/H each)	137 at MAX. LOAD
Atomizing air		
Pressure	(kg/cm^2g)	5
Capacity (m^3/min at free air per each burner)		4.99 m^3/min. at 35 °C * ✓
Available viscosity of residual oil at burner inlet		NOR. 30 cst
Turn down ratio, each burner		8 : 1
Minimum number of burner in service at MCR		16 SETS

* 6th Issue-1

**14th Issue-A.1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Igniter

Type		ELECTRIC SPARK TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		18 SETS
Capacity	(kg/H each)	20 6th Issue-2
Oil pressure	(kg/cm^2g)	2.0
Atomizing air		
Pressure	(kg/cm^2g)	3.0
Capacity (m^3/min at free air per each igniter)		0.085 m^3/min. at 35°C
Viscosity		1.6 cst at 38°C

(c) Flame detector

Type	VISIBLE FLICKER
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	36

(d) Burner valve

Type	BALL VALVE
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	120

(26) Soot blower

Type	STEAM JET PETRACTABLE TYPE
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110 11th Issue-15
Number	
Superheater	12 SETS
Reheater	12 SETS
Economizer	8 SETS

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Air preheater		2 SETS
Other		N.A.
Steam requirement for retractable soot blower		
Steam flow	(kg/H)	3,700
Steam pressure	(kg/cm^2g)	14.0
Steam temperature	(^oC)	350 (Max.)
Control method		SEQUENCE CONTROL
(27) Blow down tank		
Type		VERTICAL CYLINDRICAL
Number		1
Tank capacity	(m^3)	12
Design pressure	(kg/cm^2g)	3
Design temperature	(^oC)	150
(28) Air and flue gas duct		
(a) Air duct		
Material		CARBON STEEL
Thickness	(mm)	4.5
(b) Flue gas duct		N.A.
Material		CORTEN OR EQUIV.
Thickness	(mm)	4.5
Measures against corrosion		ANTICORROSION STEEL(CORTEN) AND INSULATION
(c) Soot hopper		
Material		CORTEN OR EQUIV.
Thickness	(mm)	4.5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(29) Forced draft fan and induced draft fan

		FDF	IDF
Type and Model No.		AIR FOIL, NO.18 1/2 REF.TO ATTACHMENT 85P6177-ML-110	N.A. 11th Issue-15
Manufacturer			N.A.
Number		2 SETS	N.A.
Operating speed	(rpm)	985	N.A.
Capacity per set	(m^3/min)	7,700	N.A.
Static pressure	(mmH_2O)	1,190	N.A.
Air and gas (IDF) temperature	(°C)	35 / 50	N.A.
Shaft horse power	(KW)	1,797 / 1,712	N.A.
Efficiency	(%)	82.0 / 82.0	N.A.
Noise at 1m distance:	dB(A)	90	N.A.
Weight			
Rotor	(t/each)	6.6	N.A.
Motor	(t/each)	11.5	N.A.
Complete	(t/each)	32.0	N.A.

(30) Gas recirculation fan or gas injection fan

Type and Model No.		TURBO, NO. 13 REF. TO ATTACHMENT 85P6177-ML-110 11th Issue-15
Manufacturer		
Number		2 SETS
Operating speed	(rpm)	985
Capacity per set	(m^3/min)	3,360
Static pressure	(mmH_2O)	345
Gas temperature	(°C)	266
Shaft horse power	(KW)	240
Efficiency	(%)	78.0

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Noise	(dB)	90 at 1m distance
Weight		
Rotor	(kg/set)	2,000
Motor	(kg/set)	2,700
Complete	(kg/set)	14,100

(31) Residual oil, warm-up oil and ignition oil facilities

(a) Residual oil service tank

Type		CONE-ROOF
Number		1
Capacity	(kl)	250
Diameter	(mm)	7,300
Height	(mm)	6,285
Thickness		
Bottom plate	(mm)	6
Shell plate	(mm)	6
Roof plate	(mm)	6
Material		CARBON STEEL
Number of courses		5
Painting material		ALKYD RESIN AND RED LEAD PRIMER
Weight complete	(kg) approx.	12,000
Material and size of heating coils	(mm)	CARBON STEEL, 20
Heating area per unit volume of the tank	(m^2/m^3)	0.01

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Residual oil pump

Type		SCREW	
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110	11th Issue-15
Number		3	
Capacity	(kg/H)	33,500	
Suction pressure	(m)	-4	
Discharge pressure	(kg/cm^2g)	25	
Viscosity range	(cst)	105 - 900	
Shaft horse power	(KW)	44 at 900 cSt	
Speed	(rpm)	1,450	11th Issue-1
Type of shaft seal		MECHANICAL SEAL	

(c) Residual oil heater

Type		HORIZONTAL, U-TUBE	
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110	
Number		2	
Heating surface	(m^2)	360	
Oil flow	(kg/H)	60,700	
Oil pressure	(kg/cm^2g)	APPROX. 25	
Steam flow	(kg/H)	3,810	
Steam pressure	(kg/cm^2g)	Working 2.5	
Inlet oil temperature	(^oC)	45	6th Issue-3
Outlet oil temperature	(^oC)	120	

M. Yonda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Temperature of condensate (°C)		90
Material		
Tube		CARBON STEEL
Shell		CARBON STEEL
Diameter x Thickness		
Tube	(mm)	19 x 2.0
Shell	(mm)	1,018 x 9.0
Fluid in tubes		OIL
Heat transfer coefficient	(Kcal/m^{2}H°C)	143

(d) Residual oil flow meter

Type		SPRING-LOADED MEASURING MECHANISM
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Available flow range	(Kl/h)	0 ~ 75
Accuracy	(%)	~~± 2~~ ± 0.5% *

(e) HSD oil service tank

Type		CONE-ROOF
Number		1
Capacity	(kl)	250
Diameter	(mm)	7,300
Height	(mm)	6,285

* 6th Issue-4

M. Yoneda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Thickness			
Bottom plate	(mm)	6	
Shell plate	(mm)	6	
Roof plate	(mm)	6	
Material		CARBON STEEL	
Number of courses		5	
Painting material		ALKYD RESIN AND RED LEAD PRIMER	
Weight complete	(kg) approx.	12,000	
(f) HSD oil pump			
Type		GEAR	
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110 11th Issue-15	
Number		2	
Capacity	(kg/H)	7,200 ~~6,000~~	*/***
Suction pressure	(m)	-4	
Discharge pressure	(kg/cm^2g)	12	
Viscosity	(cst)	1.6 at 38°C	
Shaft horse power	(KW)	5.6 ~~4.8~~	***
Speed	(rpm)	1,450	**
Type of shaft seal		MECHANICAL SEAL	
(g) Oil drain collecting tank			
Type		BOX	
Number		1	
Capacity		3.5 m^3	
Thickness of tank plate	(mm)	3.2	

* 6th Issue-5

** 11th Issue-2

*** 14th Issue-A.2

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(h)	Oil drain pump		
	Type and Model No.		GEAR
	Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110 11th Issue-15
	Number		1
	Capacity	(Kl/H)	2
	Suction head	(m)	-4
	Discharge pressure	(kg/cm^2)	5
(i)	Strainer		6th Issue-6
	Type		SINGLE
	Number		3
	Connection size		100A
	Screen material and mesh		STAINLESS STEEL & MILD STEEL 40 mesh
(32)	Seal air booster fan		
	Type		TURBO TYPE
	Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
	Number		1
	Capaciy	(m^3/min)	50
	Static pressure	(mmH_2O)	300
	Design temperature	(^oC)	50
	Shaft horse pover	(KW)	3.5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(33) Flame detector and television camera cooling air fan

Type		TURBO FAN
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Capacity	(m^3/min)	20
Static pressure	(mmH_2O)	1,500
Design temperature	(^oC)	35
Shaft horse pover	(KW)	7.5

(34) Steam generator supporting steel structure

Type		TRUSS FRAME TYPE	
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110	
Total weight	(kg) approx.	992,000	
Size of steel structure		Boiler area	AH area
Height	(m)	45.0	21.0
Width	(m)	23.2	23.2
Depth	(m)	16.6	22.4

(35) Steam converter system

(a) Steam converter with deaerator

Type		CYLINDRICAL, U-TUBE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		1
Heating surface	(m^2)	72
Heating steam flow	(kg/H)	20,120
Maximum heating pressure	(kg/cm^2g)	17
Maximum heating temperature	(^oC)	310

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Heating steam drain outlet temp.	(°C)	205.6
Secondary steam flow	(kg/H)	± 20,000
Secondary steam pressure	(kg/cm2g)	± 4
Feed water inlet temperature	(°C)	145
Weight complete (in dry) approx.		7,000 kg
Weight complete (in service) approx.		15,600 kg

(b) Steam converter drain cooler

Type		HORIZONTAL, CYLINDRICAL
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number of set		1
Heating surface	(m^2)	15
Heating drain flow	(kg/H)	20,120
Heating drain inlet temp.	(°C)	205.6
Heating drain outlet temp.	(°C)	152
Heating drain outlet pressure	(kg/cm^2g)	16
Feed water flow	(m^3/h)	20.3
Feed water inlet temp.	(°C)	90
Feed water outlet temp.	(°C)	145
Fluid in tubes		HEATING DRAIN
Weight complete (in dry) approx.		850 kg
Weight complete (in service) approx.		1,500 kg

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Tenderer's Data Sheet — MITSUI & CO., LTD. (Tenderer's Name)

(c) Steam converter feed water ~~condensate drain~~ tank

Type		Steel Plate Welded ~~HORIZONTAL CYLINDRICAL~~
Number of set		1
Size - Vide(m) x Length(m) x Height(m)		2.9 ~~0.8ø~~ x 1.5 ~~1.9~~ x 3.2 ~~-~~
Capacity in normal operation	(m^3)	7.8 ~~0.4~~ 6th Issue-7

(d) Steam converter feed water pump

Type		CENTRIFUGAL
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number of set		2
Capacity	(m^3/h)	22.2
Suction head	(m)	3.0 6th Issue-8
Discharge head	(kg/cm^2g)	9.0
Feed water maximum temp.	(^oC)	95
Material		
Casing		CAST IRON
Impeller		CAST BRONZE
Shaft		CARBON STEEL
Type of gland seal		GLAND PACKING
Material of gland seal		ASBESTOS GRAPHITE

(e) Pressure control valve and level control valve

	Heating steam P.C. valve	Steam drain L.C. valve	Feed water L.C. valve
Type	GLOBE	ANGLE	GLOBE
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110		
Number of set	1	1	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Heating steam P.C. valve	Steam drain L.C. valve	Feed water L.C. valve
Maximum flow	T/H (m^3/Hr)	20.12 *	20.12	20.27
Minimum controlable flow	T/H (m^3/Hr)	1.5	1.5	1.5
Material				
Body		CAST STEEL	CAST STEEL	CAST STEEL
Disc		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
Seat		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
Stem		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

(f) Control cabinet

Type	INDOOR, SELF-STANDING
Height x Width x Depth (m)	1.85 x 0.7 x 0.7

END

2. AUXILIARY EQUIPMENT

2.1 INSTRUMENT AIR SYSTEM

(1) Air compressor

Type		RECIPROCATING, WATERCOOLED, OIL FREE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Cylinder number x cylinder diameter	(mm)	1 x 300
Stroke	(mm)	180
Speed	(rpm)	480
Capacity (m^3/min at free air)		= 7.0 @33°C
Suction pressure	(mm bar)	1,010
Discharge pressure	(kg/cm^2g)	7

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Shaft horse power	(KW)	54.2
Material		
Frame and cylinder		CAST IRON
Cross head		DUCTILE CAST IRON
Piston		1ST : ALUMINUM ALLOY 2ND : CAST IRON
Piston ring		CARBON
Connecting rod		DUCTILE CAST IRON
Crank shaft		DUCTILE CAST IRON
Valve seat		DUCTILE CAST IRON
Valve plate		STAINLESS STEEL
Valve spring		STAINLESS STEEL
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight approximate		
Compressor	(kg/each)	1800
Motor	(kg/each)	400
Complete set	(kg/each)	2200

(2) After cooler

Type	HORIZONTAL SHELL AND TUBE
Number	2
Capacity (m^3/min at free air)	7.0 @ 33°C
Material	
Tube	COPPER TUBE
Shell	CARBON STEEL

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Diameter		
Tube	(mm OD)	12
Shell	(mm OD)	114.3
Thickness		
Tube	(mm)	1.0
Shell	(mm)	6.0
Length	(mm)	3,220
Outlet air temp.	(^{o}C)	50
Outlet cooling water temp.	(^{o}C)	45
Weight complete (kg/each) approx.		250

(3) Air receiver

Type		VERTICAL, CYLINDRICAL
Number		1
Capacity	(m^3)	2
Diameter	(mm)	1,000
Height	(mm)	2,250 (T.L TO T.L)
Design pressure	(kg/cm^2g)	8
Material		JIS SB42
Shell thickness	(mm)	8
Weight complete	(kg) approx.	1,600

(4) Air dryer

Type		REFRIGERATIVE, FULLY AUTOMATED
Manufacturer		REF. TO ATTACHMENT 85P 6177-ML-110
Number		1
Capacity	(m^3/min at free air)	14 @33°C

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Air pressure	(kg/cm^2g)	7
Dimension		
Height	(mm)	2,160
Width	(mm)	1,230
Depth	(mm)	1,230
Number of gas compressor		2
Dew point of discharge air	(^oC)	-15 (FREE AIR)
Discharge air temp.	(^oC)	43
Weight	(kg/each) approx.	1,150

(5) Pressure regulator and air filter set

Type	SELF-OPERATED REGULATOR
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Air filter	
Type	Y TYPE
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110

(6) Control panel

Type		VERTICAL SELF-STANDING
Height	(mm)	1,800
Width	(mm)	700
Depth	(mm)	450
Weight complete	(kg) approx.	200

(7) Divided package number for shipping 24

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2.2 SERVICE AIR SYSTEM

(1) Air compressor

Type		RECIPROCATING, WATER COOLED
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Cylinder number x cylinder diameter	(mm)	1ST STAGE 1 x 450 2ND STAGE 1 x 280
Stroke	(mm)	180
Speed	(rpm)	540 (14th Issue-A.3, 6th Issue-10)
Capacity (m^3/min at free air)		22.4 @33 °C
Suction pressure	(mm bar)	1,010
Discharge pressure	(kg/cm^2g)	7
Shaft horse power	(KW)	134
Complete weight	(kg/set)	5,600 (incl. Motor)

(2) Inter cooler

Type		HORIZONTAL, SHELL AND TUBE
Number		2
Capacity (m^3/min at free air)		~~20~~ 22.4 @33°C (6th Issue-11, 14th Issue-A.3)
Material		
Tube		COPPER TUBE
Shell		CARBON STEEL
Diameter x Thickness		
Tube	(mm)	12 O.D. x 1.0
Shell	(mm)	216.3 O.D. x 8.2
Outlet air temp.	(°C)	50 (6th Issue-11, 14th Issue-A.4)
Outlet cooling water temp.	(°C)	45

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(3) After cooler

Type		HORIZONTAL, SHELL AND TUBE
Number		2
Capacity	(m^3/min at free air)	~~20~~ 22.4 @33°C (6th Issue-I, 14th Issue-A.4)
Material		
Tube		COPPER TUBE
Shell		CARBON STEEL
Diameter x Thickness		
Tube	(mm)	12 O.D. x 1.0
Shell	(mm)	216.3 O.D. x 8.2
Outlet air temp.	(°C)	50
Outlet cooling water temp.	(°C)	45 (6th Issue-II, 14th Issue-A.4)

(4) Air receiver

Type		VERTICAL, CYLINDRICAL
Number		1
Capacity	(m^3)	2.5
Diameter	(mm)	1,000
Height	(mm)	2,850 (T.L TO T:L)
Design pressure	(kg/cm^2g)	8
Shell thickness	(mm)	8

(5) Control panel

Type	VERTICAL, SELF-STANDING
Number	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2.3 CHEMICAL FEED SYSTEM

(1) Hydrazine solution pump

Type		PLUNGER PUMP
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Capacity	(max. l/min)	0.217
Type of stroke adjustment		REMOTE MANUAL
Range of adjustment	(%)	0 to 100
Discharge pressure	(max. kg/cm^{2}g)	20
Connection size		
Suction	(mm)	15
Discharge	(mm)	15
Material		
Cylinder		STAINLESS STEEL
Ball check		STAINLESS STEEL
Ball seat		STAINLESS STEEL
Plunger		STAINLESS STEEL
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete (kg/each)	approx.	90

(2) Hydrazine solution tank

	Diluted	Concentrated
Type	CYLINDRICAL	CYLINDRICAL
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110	

S. Uchida

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Diluted	Concentrated
Number		1	1
Capacity	(l)	1,000	400
Size			
Inside diameter	(mm)	1,200	740
Height	(mm)	1,000	1,000
Thickness	(mm)	2.0	1.5
Material		STAINLESS STEEL	STAINLESS STEEL
Measuring tank			
Capacity	(l)	60	60
Size (W x D x H)	(mm)	ø450 x H500	ø450 x H500
Material		STAINLESS STEEL	STAINLESS STEEL
Number		1	1
Hand pump			
Number		1	-
Capacity	(l/min)	20	-
Weight complete (kg/each) approx.		210	90

(3) Phosphate solution pump

Type		PLUNGER TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Capacity	(max. l/min)	0.517
Capacity adjustment variable		0~100 %
Type of adjustment provided		REMOTE MANUAL
Discharge pressure (max. kg/cm^{2}g)		230

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Connection size		
Suction	(mm)	15
Discharge	(mm)	15
Material		
Cylinder		STAINLESS STEEL
Ball check		STAINLESS STEEL
Ball seat		STAINLESS STEEL
Plunger		STAINLESS STEEL
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete (kg/each) approx.		160

(4) Phosphate solution tank

Type		CYLINDRICAL
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		1
Capacity	(l)	700
Size		
Inside diameter	(mm)	1,000
Height	(mm)	1,000
Thickness	(mm)	2.0
Material		STAINLESS STEEL
Dissolving screen material		STAINLESS STEEL
Agitator		-
Type		PORTABLE

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		1
Speed	(rpm)	180
Material		STAINLESS STEEL
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete (kg/each)	approx.	200

(5) Ammonium solution tank

Type		CYLINDRICAL, CLOSED TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		1
Capacity	(l)	400
Size		-
Inside diameter	(mm)	740
Height	(mm)	1,000
Thickness	(mm)	1.5
Material		STAINLESS STEEL

(6) Ammonium dissolving equipment

Dissolving method		AGITATOR
Conductivity meter		REF. TO ATTACHMENT 85P6177-ML-110
Manufacturer		1
Number		0 ~ 5000μ S/cm
Range		2 - WIRE TYPE
Type		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Pressure reducing valve		
Type		SINGLE SHEET TYPE
Reducing range		0～100 %
Number		1
Piping material		STAINLESS STEEL
(7) Ammonium solution pump		
Type		PLUNGER PUMP
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Capacity	(max. l/min)	0.267
Capacity adjustment variable		0～100 %
Type of adjustment provided		AUTOMATIC
Discharge pressure	(max. kg/cm^{2}g)	20
Connection size		
Suction	(mm)	15
Discharge	(mm)	15
Material		
Cylinder		STAINLESS STEEL
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	90
(8) Control panel		
Type		SELF-STANDING
Height	(mm)	2,500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Width	(mm)	650
Depth	(mm)	500
Weight	(kg) approx.	400

(9) Electric power source

KW	12
Voltage	AC 380 V
Phase	3

(10) Divided package number for shipping: 8

2.4 SAMPLING RACK SYSTEM

(1) Sampling rack

Type	OPEN, SELF-SUPPORTING STEEL FRAME TYPE, SINGLE SIDE MOUNTING
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	1 set

Analyzer

pH

Type	GLASS ELECTRODE METHOD
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	3 sets
Range	0 - 14 pH

Conductivity

Type	ELECTRODE
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	7 sets
Range	0 ~ 2 μS/cm, 0 ~ 20 μS/cm 0~100μ S/cm, ~~or~~ 0~500μ S/cm *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dissolved oxygen

Type	MEMBRANE ELECTRODE METHOD
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	2 sets
Range	0~20 ppb, 0~200 ppb ~~0~20 ppm~~ 5th Issue-12

Hydrazine

Type	POTENTIAL METHOD
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Number	1 set
Range	0~25 ppb 0~50 ppb 0~100 ppb 0~250 ppb

Pressure reducing valve

Type	PILOT TYPE
Material	SUS304

Size of sampling rack

Length	(mm)	4,800
Width	(mm)	660
Height	(mm)	2,000
Weight complete (kg) approx.		3,500

(2) Recorder and indicator

	Recorder (Control room)	Indicator (Local)
(a) pH		
Type	PEN	VERTICAL
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110	
Number	1 set	3 sets
Number of pen	3	N.A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Recorder (Control room)	Indicator (Local)
	Range	0 ~ 14 pH	0 ~ 14 pH
(b)	Conductivity		
	Type	DOTTING	VERTICAL
	Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110	
	Number	1 set	7 sets
	Number of pen	7 points	N.A
	Range	0~2, 0~20, 0~100 0~500 μ S/cm	~~0~100 μ S/cm~~ or ~~0~500 μ S/cm~~ ** (Same as recorder)
(c)	Oxygen and hydrazine		OXYGEN | HYDRAZINE
	Type	PEN	VERTICAL | VERTICAL
	Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110	
	Number	1 set	2 sets | 1 set
	Number of pen	3	N.A | N.A
	Range	Oxygen 0 ~ 20ppb, ~~0~20ppm~~ / Hydrazine 0~250ppb \ 0~200ppb	0~20ppb ~~0~20ppm~~ | 0~250ppb * (0~200ppb)
(3)	Uni-sampler		
	Type	CHILLING SYSTEM	
	Number	1	
	Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110	
	Weight (kg) approx.	90	
(4)	Electric power source	CONTROL & INSTRUMENT	POWER CIRCUIT
	KW	0.3	7.5
	Voltage	110	380
	Phase	SINGLE	3
(5)	Divided package number for shipping	22	

* 6th Issue-12

** 6th Issue-13

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Tenderer's Data Sheet — MITSUI & CO., LTD. (Tenderer's Name)

3. PIPING FOR STEAM GENERATOR AND AUXILIARY EQUIPMENT

(1) Auxiliary steam piping	Material	Size (mm)
From secondary superheater inlet - HP auxiliary steam control valve	JIS STPA22	80
HP auxiliary steam control valve - HP auxiliary steam header	JIS STPT38	200
From cold reheat pipe to HP auxiliary steam header	JIS STPT38	200

(2) Motor operating valves

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	Soot blowing steam line	Burner atomizing steam line	H.P. aux. steam line
Type of valve	GATE	GATE	GATE
Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110		
Pressure rating	20 Kg/cm^{2}g (300LB)	20 Kg/cm^{2}g (300LB)	20 Kg/cm^{2}g (300LB)
Material	CARBON STEEL	CARBON STEEL	CARBON STEEL
Number of valve	1	1	~~1~~ 3

6th Issue-14

(3) Main steam piping		
Material and size (mm)	ASTM A335 P22	450
Design pressure (kg/cm^{2}g)	183.8	
Design temperature ($^\circ$C)	546	
Schedule (thickness) (mm)	73.5	
Calculation thickness (mm)	66.13	

(4) Reheater inlet steam piping		
Material and size (mm)	ASTM A672 B60 CL22	700
Design pressure (kg/cm^{2}g)	50.2	
Design temperature ($^\circ$C)	350	
Schedule (thickness) (mm)	17.5	
Calculation thickness (mm)	16.7	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5) Reheater outlet steam piping

Material and size	(mm)	ASTM A691 2 1/4Cr CL. 22	700
Design pressure	(kg/cm^2g)	46.7	
Design temperature	(^oC)	546	
Schedule (thickness)	(mm)	31.5	
Calculation thickness	(mm)	30.7	

(6) Turbine by-pass piping

	Thickness (mm)	Material	Size (mm)
(a) Main steam to pressure control valve	43	ASTM A335 P22	250
(b) Pressure control valve to attemperator	N.A.	(ATTEMPERATOR INTEGRATED IN PRESS. CONT. VALVE)	
(c) Attemperator to reheat inlet pipe	15	ASTM A672 B60 CL22	350

(7) Automatic control valves on H.P. turbine by-pass line 6th Issue-15

		On-off valve	Pressure control valve
Type		ANGLE TYPE	ANGLE TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110	
Number of set		1	1
Size	(mm)	250	250 x 350
Maximum flow	(kg/H)	230,000	230,000
Pressure control	(kg/cm^2g)	N.A	169
Material			
Body		FORGED ALLOY STEEL	FORGED ALLOY STEEL
Disc		STAINLESS STEEL STELLITE FACED	STAINLESS STEEL STELLITE FACED
Seat		FORGED ALLOY STEEL STELLITE FACED	FORGED ALLOY STEEL STELLITE FACED

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		On-off valve	Pressure control valve
Stem		FORGED ALLOY STEEL	FORGED ALLOY STEEL
Noise (As a complete set)	(dB (A))	90	90
Weight	(kg) approx.	1,250	1,950
(8) Feedwater piping			
Material and size	(mm)	ASTM A106 Gr.C	350
Design pressure	(kg/cm^2g)		225
Schedule (thickness)	(mm)		34
(9) Chemical feed piping		Material	Size (mm)
Diluted water pipe		JIS SGP	25
Chemical feed pipe			
For drum		JIS SUS321	15
For deaerator		JIS SUS321	15
For condensate pump outlet		JIS SUS321	15
(10) Sampling piping		Material	Size (mm)
Sampling pipe		JIS SUS321	8

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Tenderer's Data Sheet — MITSUI & CO., LTD. (Tenderer's Name)

4. INSULATION FOR STEAM GENERATOR AND AUXILIARY EQUIPMENT

	Heat transfer coefficient (kcal/mh°C)	Maximum allowable temperature (°C)
(1) Heat insulation material		
Calcium silicate	0.04	650
Rock wool	0.039	600
Hard cement	0.25	700
Calcium silicate paste	0.06	650
Other materials ( )	-	-
(2) Insulation material		
Boiler drum	ROCK WOOL	
Header	ROCK WOOL	
Wall tube (Furnace)	ROCK WOOL	
Wall tube (Convection)	ROCK WOOL	
Ceiling	ROCK WOOL	
Bottom	ROCK WOOL	
Air duct and wind box	ROCK WOOL	
Flue gas duct and soot hoppers	ROCK WOOL	
	-	
Steam coil air preheater	CALCIUM SILICATE	
Air preheater	CALCIUM SILICATE	
	-	
Residual oil heater	ROCK WOOL	
	-	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Blov down tank	ROCK WOOL
	-
Piping	
Main steam	CALCIUM SILICATE
Turbine by-pass	CALCIUM SILICATE
Reheater inlet steam	CALCIUM SILICATE
Reheater outlet steam	CALCIUM SILICATE
Feedvater	CALCIUM SILICATE
Spray vater	CALCIUM SILICATE
Residual oil	CALCIUM SILICATE
Auxiliary steam	CALCIUM SILICATE
Drain vent and vent	CALCIUM SILICATE
Wash water	CALCIUM SILICATE
(3) Description of safety insulation	WHERE HEAT INSULATION IS NOT REQUIRED IN VIEW OF PLANT EFFICIENCY AND YET HARMFUL FOR A PERSON WALKING OR STANDING AROUND, ANTI-BURNING GUARD OR INSULATION TO KEEP SURFACE TEMPERATURE 50°C OR LESS SHALL BE PROVIDED UP TO 2M ABOVE THE WALKWAY.
(4) Lagging and Jacketing	
Material	ALUMINUM ALLOY SHEET
Thickness (mm)	0.5
(5) Total weight of the insulation materials (ton) approx.	234

15 sheets

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

5. PAINTING FOR STEAM GENERATOR AND AUXILIARY EQUIPMENT

		Kind of paint	
		Primary painting	Finished painting
(1)	Steam generator	ALKYD RESIN, RED LEAD PRIMER	ALUMINUM LAGGED
(2)	Drum	DO.	DO.
(3)	Header	DO.	ENCASED AND AL. LAGGED
(4)	Tube	DO.	N.A
(5)	Casing (inner)	DO.	N.A
(6)	Casing (outer)	DO.	AL. LAGGED
(7)	Air duct	DO.	NOTE 1 OR AS(8) OUTER
(8)	Gas duct	DO.	AL. LAGGED
(9)	Forced draft fan	DO.	SAME AS (7)
(10)	Steam coil air preheater	DO.	SAME AS (8)
(11)	Air preheater	DO.	SAME AS (8)
(12)	Steel structure	DO.	NOTE 1
(13)	Residual oil and HSD oil service tank (OUTER)	DO.	RO:SAME AS (8) HSD:NOTE 1
(14)	Residual oil pump	DO.	NOTE 1
(15)	HSD oil pump	DO.	NOTE 1
(16)	Residual oil heater (OUTER)	DO.	SAME AS (8)
(17)	Blow down tank (OUTER)	DO.	SAME AS (8)
(18)	Steam converter (OUTER)	DO.	SAME AS (8)
(19)	Steam converter drain tank (OUTER)	DO.	SAME AS (8)
(20)	Steam converter drain cooler (OUTER)	DO.	SAME AS (8)
(21)	Steam converter feedvater tank (OUTER)	DO.	SAME AS (8)
(22)	Steam converter feed vater. pump	DO.	SAME AS (8)

NOTE 1 : LONG OIL BASED ALKYD RESIN FINIGH COAT

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Kind of paint: Primary painting	Finished painting
(23)	GRF or GIF	ALKYD RESIN, RED LEAD PRIMER	OUTER : N.A. (INSULATED)
(24)	Boiler water circulating pump (if necessary)	N.A.	N.A.
(25)	Insulated piping	ALKYD RESIN, RED LEAD PRIMER	N.A.
(26)	Uninsulated piping	ALKYD RESIN, RED LEAD PRIMER	LONG OIL BASE ALKYD RESIN FINISH

6. INSTRUMENTATION

6.1 BOILER CONTROL SYSTEM

(1)	Type	MICROPROCESSOR BASED TYPE
(2)	Signal range (From/to another system)	4~20mADC AND 1~5VDC
(3)	Manufacturer, Model No.	REF. TO ATTACHMENT 85P6177-ML-110 · 6th Issue-16
(4)	Number	1 set
(5)	System cabinet	
	Dimension (mm) W x D x H	6096 x 762 x 2215
	Grounding wire	IV 14 sq
	Anti-vibration rubber	(Yes) No
(6)	Transmitter & actuator type	TRANSMITTER : CAPACITANCE TYPE ACTUATOR : PNEUMATIC TYPE
(7)	Control system block diagram with main interlock system by No.	85P6177-T1-220
(8)	Power supply system block diagram by No.	85P6177-T1-230
(9)	Outline arrangement of unit master man-machine communication device by No.	85P6177-T1-240

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(10)	Operating condition of digital control system	Temp. 0 °C - 55 °C Humidity 0 % - 95 %
(11)	Power source and consumption	DC 220 V - 7,000 V *
		AC 110 V 7.0 VA * ~~4.5K W~~
		Air 0.88 Nm^3/min
(12)	Control ability	
	Automatic control range	(Yes) ~~No~~
	Control accuracy	
	Pressure (less than ± 2 kg/cm^2)	(Yes) ~~No~~
	Temperature (less than ± 5°C)	(Yes) ~~No~~
	Drum level (less than ± 50 mm) or one-third of alarm range)	(Yes) ~~No~~
(13)	MTBF more than 10^4 hours	(Yes) ~~No~~
(14)	Troubleshooting equipment	
	Console	(Yes) ~~No~~
	CRT	(Yes) ~~No~~
	Hard copy (Plotter)	(Yes) ~~No~~
	Manual stand by operating modules	(Yes) ~~No~~
	Online, off line maintenance	(Yes) ~~No~~

6.2 BURNER CONTROL SYSTEM

(1)	Type	MICROPROCESSOR BASED TYPE
(2)	Signal range (From/to another system)	CONTACT
(3)	Manufacturer, Model No.	REF. TO ATTACHMENT 85P6177-ML-110
(4)	Number	1 set

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Tenderer's Data Sheet	MITSUI & CO., LTD. (Tenderer's Name)
(5) System cabinet	
Dimension (mm) W x D x H	6706 x 762 x 2215
Grounding vire	IV-14^{sq}
Unti-vibration rubbers	(Yes) ~~No~~
(6) Function	
Boiler safety interlock system	(Yes) ~~No~~
Burner management system	(Yes) ~~No~~
Each burner control system	(Yes) (REMOTE PAIR CONTROL AS WELL) ~~No~~
(7) Applied standard, code, regulation	NFPA ~~or~~ 85D
(8) MFT circuit power source	DC220V (+10%, -15%)
(9) Outline block diagram of each function by No.	85P6177-T1-250
(10) Outline composition of backup system for digital control system by No.	85P6177-T1-260
(11) Flame detector	
Type, manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Ignition burner	VISIBLE FLICKER
Main burner	VISIBLE FLICKER
(12) Fuel trip valve type	PNEUMATIC
(13) Outline arrangement of central control console by No.	85P6177-T1-270
(14) Power supply system block diagram by No.	85P6177-T1-280
(15) Operating condition of digital control system	Temp. 0 °C - 55 °C
	Humidity 0 % - 95 %
(16) Power source consumption	DC 220 V 1,200 W

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

AC · 110 V 6,000 VA
BURNER START
Instrument air 100 Nl/min
Station air 26,500 Nl/min (for 6 burners)

(17) MTBF more than 10^4 hours — (Yes) ~~No~~

(18) Troubleshooting equipment

Console	(Yes)	~~No~~
CRT	(Yes)	~~No~~
Hard copy	(Yes)	~~No~~
Manual stand by operating modules	(Yes)	~~No~~
Online-offline maintenance	(Yes)	~~No~~

6.3 SPECIAL INSTRUMENTS

(1) Residual oil flow meter (installed at service tank inlet)

Type		Positive displacement
Manufacturer, Model No.		REF. TO ATTACHMENT 85P6177-ML-110 LC312-432
Flow range	(Kl/H)	150
Accuracy	(%)	± 0.2
Calibrated by (Institute, laboratory)		FACTORY TEST EQUIPMENT IS CERTIFIED BY NATIONAL RESEARCH LABORATORY OF METROLOGY
Manual printer (for used normal and performance test)		(Yes) ~~No~~

(2) Residual oil tank level meter (installed at service tank)

Type		FLOAT TAPE TYPE
Manufacturer, Model No.		REF. TO ATTACHMENT 85P6177-ML-110 FT-1211
Minimum measuring unit	(mm)	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Accuracy	(mm) (%)	± 2
Calibrated by (Institute laboratory)		FACTORY TEST EQUIPMENT IS CERTIFIED BY NATIONAL RESERCH LABORATORY OF METROLOGY
(for used normal and performance test)		

6.4 MISCELLANEOUS INSTRUMENTS AND CONTROL APPARATUS

	Manufacturer	Type and model
(1) Recorder		
Electric signal (V, mA etc.)	REF. TO ATTACHMENT 85P6177-ML-10	PEN
Temperature (for thermocouple, RTD)	REF. TO ATTACHMENT 85P6177-ML-110	PEN
(2) Indicator		
Dial type	REF. TO ATTACHMENT 85P6177-ML-110	ELECT
Vertical type	REF. TO ATTACHMENT 85P6177-ML-110	ELECT
(3) Transmitter		
Pressure (Draft)	REF. TO ATTACHMENT 85P6177-ML-110	CAPACITANCE
Temperature	REF. TO ATTACHMENT 85P6177-ML-110	T/C
Flow	REF. TO ATTACHMENT 85P6177-ML-110	CAPACITANCE
Level	REF. TO ATTACHMENT 85P6177-ML-110	CAPACITANCE
Analysis (Conductivity, pH, etc)	REF. TO ATTACHMENT 85P6177-ML-110	ELECTRONIC
(4) Controller		
Pressure	REF. TO ATTACHMENT 85P6177-ML-110	MICRO PROCESSOR FORCED BALANCE
Temperature	REF. TO ATTACHMENT 85P6177-ML-110	FORCED BALANCE
Flow	REF. TO ATTACHMENT 85P6177-ML-110	MICRO PROCESSOR
Level	REF. TO ATTACHMENT 85P6177-ML-110	MICRO PROCESSOR DISPLACEMENT
Analysis (conductivity, pH, etc.)	REF. TO ATTACHMENT 85P6177-ML-110	ELECTRO

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Manufacturer	Type and model
(5)	Switch		
	Pressure (Draft)	REF. TO ATTACHMENT 85P6177-ML-110	MICRO SWITCH
	Temperature	REF. TO ATTACHMENT 85P6177-ML-110	MERCURY IN STEEL
	Flow	REF. TO ATTACHMENT 85P6177-ML-110	MICRO SWITCH
	Level	REF. TO ATTACHMENT 85P6177-ML-110	FLOAT
	Limit switch	REF. TO ATTACHMENT 85P6177-ML-110	LEVER
(6)	Local indicator		
	Pressure gauge	REF. TO ATTACHMENT 85P6177-ML-110	BOURDON
	Thermometer	REF. TO ATTACHMENT 85P6177-ML-110	Bi-METAL
	Flow (positive displacement type)	REF. TO ATTACHMENT 85P6177-ML-110	VOLUMETRIC
	Flow (other)	REF. TO ATTACHMENT 85P6177-ML-110	ROTARY VANE
	Level	REF. TO ATTACHMENT 85P6177-ML-110	FLOAT
(7)	Sight glass	REF. TO ATTACHMENT 85P6177-ML-110	DIRECT INDICATE
	Sight flow	REF. TO ATTACHMENT 85P6177-ML-110	TUBULAR
	Level glass gauge		
(8)	Primary element		
	Thermocouple	REF. TO ATTACHMENT 85P6177-ML-110	K or E
	RTD	REF. TO ATTACHMENT 85P6177-ML-110	Pt100 Ω
	Thermo-vell	REF. TO ATTACHMENT 85P6177-ML-110	DRILLED
	Flow orifice	REF. TO ATTACHMENT 85P6177-ML-110	CONCENTRIC
	Flow nozzle	REF. TO ATTACHMENT 85P6177-ML-110	HOLDING RING
	pH	REF. TO ATTACHMENT 85P6177-ML-110	CELL
	Conductivity	REF. TO ATTACHMENT 85P6177-ML-110	CELL
(9)	Wind direction and speed sensor with recorder	-	-
		REF. TO ATTACHMENT 85P6177-ML-110	ULTRASONIC

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(10)	Control valve	REF. TO ATTACHMENT 85P6177-ML-110	PNEUMATIC
(11)	Manometer	N.A.	N.A.
(12)	Thermocouple extension wire	REF. TO ATTACHMENT 85P6177-ML-110	KX-G, EX-G
(13)	Control tubing	REF. TO ATTACHMENT 85P6177-ML-110	PVC-CUT ø 6/4
(14)	Flame vieving TV system		
	Camera with cooling equipment controller	REF. TO ATTACHMENT 85P6177-ML-110	WATER-COOLING CAMERA HOUSING
	CRT (14 inches)	REF. TO ATTACHMENT 85P6177-ML-110	MONOCHROME
	Power consumption	(VA)	400
(15)	Dram lever vieving TV system		
	Camera with cooling equipment controller	REF. TO ATTACHMENT 85P6177-ML-110	WATER-COOLING CAMERA HOUSING
	CRT	REF. TO ATTACHMENT 85P6177-ML-110	COLOR
	Power consumption	(VA)	200

6.5 POWER CONSUMPTION

(1)	Instrument air	(Nm^3/min)	1.21
(2)	Electric power		
	AC 110 V	(VA)	~~18,300~~ 15,100
	DC 220 V	(W)	~~1,200~~ 16,300

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SECTION III

STEAM TURBINE AND AUXILIARY EQUIPMENT

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6.4	MISCELLANEOUS INSTRUMENTS AND CONTROL APPARATUS	DT-62
6.5	POWER CONSUMPTION	DT-64

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

III. STEAM TURBINE AND AUXILIARY EQUIPMENT

The Contractor shall guarantee the items marked "*".

1. STEAM TURBINE

1.1 TURBINE

(1)	Type		Reheat condensing tandem compound double flow type
(2)	Manufacturer		Fuji Electric Co., Ltd.
(3)	Speed	(rpm)	3,000
(4)	Number of extraction		7

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5) Performance data

		Minimum load	50% of rated load	75% of rated load	ECR	MCR	Maximum load
Output	(MW)	50	125	187.5	250	* 250	262.5
Turbine-generator heat rate	(kcal/KWH)	2,590	2,040	1,949	*1,914	1,992.2	1,929
Steam pressure Main steam	(kg/cm^2g)	169	169	169	169	169	169
Steam pressure RH steam	(kg/cm^2g)	10.07	18.49	27.75	37.81	39.71	40.2
Steam temperature Main steam	(°C)	513	538	538	538	538	538
Steam temperature RH steam	(°C)	465	538	538	538	538	538
Steam flow Main steam	(kg/H)	182,509	364,305	546,847	748,062	782,380	795,633
Steam flow RH steam	(kg/H)	162,147	330,180	489,991	664,938	697,742	712,217
Exhaust steam pressure	(mmHg abs)	82.55	82.55	82.55	82.55	132	82.55
Exhaust steam flow	(kg/H)	140,013	268,926	384,030	503,966	534,003	537,060
Make up water	(%)	0	0	0	0	1	0
Feedwater temperature at HP final heater outlet	(°C)	180.7	214.7	233.8	249.2	251.7	252.5
Generator power factor		0.85	0.85	0.85	0.85	0.85	0.95
Generator hydrogen pressure	(kg/cm^2g)	1	2	2	4	4	4

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(Tenderer's Name)

(6) Extraction steam conditions at turbine connections (at ECR)

Extraction number	Flow (kg/H)	Pressure (kg/cm^2g)	Temperature (°C)
	N.A.	N.A.	N.A.
No. 1 (to HP No. 8 heater)	56,161	41.2	335.0
No. 2 (to HP No. 7 heater)	32,954	20.84	451.4
No. 3 (to HP No. 6 heater)	32,757	10.42	356.9
No. 4 (to deaerator)	29,863	4.864	274.9
No. 5 (to LP No. 4 heater)	31,749	1.712	197.1
No. 6 (to LP No. 3 heater)	30,584	-0.0243	104.5
No. 7 (to LP No. 2 heater)	5,732	-0.7533	SATURATION
No. 8 (to LP No. 1 heater)			

(7) Approximate minimum load at unit can operate satisfactorily for continuous (KW): 15,000

(8) Time required for pick up from minimum load to maximum load (min): 25 (at rated steam condition)

(9) Critical speed (Composition and each rotor) (rpm): Composition 1st. 2020, 2nd. 4250 / Each rotor HP 4100, IP 3950, LP 1790

(10) Dimension

		HP	IP	LP
Rotor length (each rotor)	(mm)	4190	4245	6300
Width (each turbine)	(mm)	3250	3750	7500
Turbine bearing span (each turbine)	(mm)	3525	4150	6325
Height of top above operating floor	(mm)	2260	3080	3455

(11) Weight (approx.)

Rotor (each rotor)	(kg)	8600	19700	43000
Upper casing (each casing)	(kg)	Barrel Outer 30000	(Outer 12500 / Inner 9000)	(Outer 18000 / Inner 24000)
Lower casing (each casing)	(kg)	Inner 12000	(Outer 12500 / Inner 9000)	(Outer 32000 / Inner 26000)
Assembled weight (each turbine)	(kg)	52000	69000	154000

16. ゆうえ-

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(12) Length of last stage blade (mm) — 664

(13) Annulus area of last stage blade — Nominal 2 x 5 m^2

(14) Bearing

Type — Two wedge, Plain type

Number — 4

(15) Thrust bearing type — Michell type

(16) Material

Turbine rotor (each rotor) — HP .. CrMoNiV forged steel; IP .. CrMoNiV forged steel; LP .. NiCrMoV forged steel

Casing (each casing) — HP .. CrMoV Cast steel; IP .. Outer casing: Mo cast steel, Inner casing: CrMoV cast steel; LP .. Carbon steel

Blade (each blade) — HP & IP: 12% CrMoV stainless steel; LP: 12% Cr stainless steel, Ni steel, 12% CrAl stainless steel

Casing bolt (each bolt) — HP, IP) CrMoV forged steel; LP .. Carbon steel

Steam chest — CrMoV Cast steel

1.2 SPEED, LOAD CONTROL AND PROTECTION SYSTEM

(1) EHC system type — SOLID STATE, ANALOGUE

(2) Control valve

Type — Diffuser type

Number — 4

Material — Stem: 12% CrMoV stainless steel

(3) Load limitter — (Yes) / ~~No~~

(4) Full-arc admission — (Yes) / ~~No~~

(5) Main stop valve

Number — 2

Size (mm) — 250

Material of body and stem — CrMoV cast steel / 12% CrMoV stainless steel

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(6) Combined reheat valve

Number		2
Size	(mm)	Stop valve : 450 Control valve : 400
Material of body and stem		CrMoV cast steel / 12% CrMoV ~~stainless steel~~

(7) HP turbine exhaust check valve

Number		1
Size	(mm)	600
Material of body and stem		CrMo cast steel / ~~Stainless steel~~

(8) Emergency governor type: Eccentric bolt type

(9) Emergency trip device

Thrust failure protection device	(Yes)	~~No~~
Vacuum trip device	(Yes)	~~No~~
Lov bearing oil pressure trip device	(Yes)	~~No~~

(10) Vacuum breaker

Type and size: Solenoid valve 150

(11) Initial pressure regulator: (Yes) / ~~No~~

(12) Atmospheric relief diaphragm

dia. x thickness	(mm)	710 x 1
Material		Lead plate

(13) Turbine exhaust spray water flow (kg/H): 3750

(14) Extraction steam reverse current valve size and rating

Extraction number	Size (mm)	Rating (lb/in^2)
No. 1 (to No.7 heater)	Not provided	
No. 2 (to No.6 heater)	250	600

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MITSUI & CO., LTD.

(Tenderer's Name)

Extraction number	Size (mm)	Rating (lb/in^2)
No. 3 (to deaerator)	250	300
No. 4 (to No.4 heater)	350	150
No. 5 (to No.3 heater)	450	150
No. 6 (to No.2 heater)	700	150
No. 7 (to No.1 heater)	Not provided	
No. 8	N.A.	N.A.

1.3 LUBRICATING AND HYDRAULIC OIL SYSTEM

(1)	Brand of using oil		ISO VG32 inhibited turbine oil
(2)	Oil capacity of system	(m^3)	33
(3)	Bearing oil circulation rate	(m^3/H)	120
(4)	Bearing oil pressure	(kg/cm^2g)	1.5
(5)	Control oil pressure	(kg/cm^2g)	8
(6)	Main oil tank		
	Type		Steel welded type
	Manufacturer		Fuji Electric Co., Ltd.
	Capacity	(m^3)	25
	Dimension	(mm)	5000 x 2400 x 3000
	Material		Rolled steel plate
	Weight complete	(kg) approx.	8500 (empty)
	Flow back oil	(m^3)	4
(7)	Main oil pump		
	Type		Centrifugal
	Manufacturer		Fuji Electric Co., Ltd.

Tenderer's Data Sheet

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MOOR JAYUM & COMPANY
1, Nursery Lane
Lawrence Road
LAHORE

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Capacity	(m^3/H)	500
Discharge and suction pressure	(kg/cm^2g)	Discharge 8.0 / Suction 0.1
Material		
Casing		Cast Iron
Shaft		CrMo forged steel
Impeller		Stainless steel
Weight complete (kg) approx.		360

(8) Relay dump valve

Type		Oil operated air pilot type
Valve size	(mm)	~~Informed later~~ 25 Prot-13

(9) Oil cooler

Type		Shell and tube type
Manufacturer		Fuji Electric Co., Ltd.
Number		2
Cooling surface area	(m^2)	450
Cooling water inlet design temperature	(^oC)	49
Oil outlet temperature	(^oC)	53
Cooling water flow	(m^3/H)	580
Oil flow	(m^3/H)	120
Tube size (outside diameter x thickness)	(mm)	22.3x2.9
Design pressure		
Tube side	(kg/cm^2g)	8
Shell side	(kg/cm^2g)	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Design temperature		
Tube side	(°C)	71
Shell side	(°C)	71
Material		
Tube		Copper alloy
Shell		Carbon steel
Water chamber		Carbon steel
Tube sheet		Carbon steel
Dimension	(mm)	3800 (length) xø1100 (Shell diameter)
Weight (each)	(kg) approx.	6200

(10) Auxiliary oil pump

Type		Centrifugal
Manufacturer		Kosaka Laboratory or equivalent
Number		1
Capacity	(m^3/H)	360
Discharge pressure	(kg/cm^2g)	6.5
Speed	(rpm)	3000
Material		
Casing		Cast Iron
Shaft		Carbon steel
Impeller		Bronze casting
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	1500 (each)

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(11) Turning gear oil pump

Type		N.A.
Manufacturer		N.A.
Number		N.A.
Capacity	(m^3/H)	N.A.
Discharge pressure	(kg/cm^2g)	N.A.
Speed	(rpm)	N.A.
Material		N.A.
Casing		N.A.
Shaft		N.A.
Impeller		N.A.
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	N.A.

(12) Emergency oil pump

Type		Centrifugal
Manufacturer		Kosaka Laboratory or equivalent
Number		1
Capacity	(m^3/H)	63
Discharge pressure	(kg/cm^2g)	1.5
Speed	(rpm)	1750
Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller		Bronze casting

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	750

(13) Jacking oil pump

Type		Plunger type
Manufacturer		Uchida Oil Hydraulics or equivalent
Number		1
Capacity	(m^3/H)	7.5
Discharge pressure	(kg/cm^2g)	170
Speed	(rpm)	1000
Material		
Casing		Cast Iron
Shaft		Al Cr Mo steel
Plunger		Al Cr Mo steel
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	1000

(14) Oil conditioner

Type		STATIC
Manufacturer		MITSUBISHI KAKOKI or equivalent
Number		1
Capacity	(m^3/H)	7
Dimension	(mm)	3800 x 1920 x 1200
Weight complete	(kg) approx.	2500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(15) Oil filter pump

Type		Centrifugal
Manufacturer		MITSUBISHI KAKOKI or equivalent
Number		1
Capacity	(m^3/H)	8
Discharge pressure	(kg/cm^2g)	~~To be informed later~~ 2.5 *
Speed	(rpm)	** 1500*
Material		
Casing		** Cast iron*
Shaft		** Carbon steel*
Impeller or gear		** Bronze casting*
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	** 600*

(16) Vapor extractor for main oil tank

Type		Blower
Manufacturer		Izumi-Sofuki Co., Ltd. or equivalent
Number		1
Capacity	(m^3/H)	710
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	70

(17) Vapor extractor for oil conditioner

Type	Blower

* Prot-13

H. Ohata

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		IZUMI SOFUKI or equivalent
Number		1
Capacity	(m^3/H)	710
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	70

(18) Turbine oil storage tank

Type		Steel Welded
Manufacturer		Fuji Electric or equivalent ~~1~~ *
Capacity	(m^3)	~~30~~ 70 11th Issue-4
Dimension	(mm)	5000 x 2400 x 3000
Material		Rolled steel plate
Weight complete	(kg) approx.	8000

(19) Oil transfer pump

Manufacturer		KOSAKA LABORATORY or equivalent
Number		1
Capacity	(m^3/H)	60
Discharge pressure	(kg/cm^2g)	4
Speed	(rpm)	3000
Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller or gear		Bronze casting

* 7th Issue-18

Yonata

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	70

1.4 TURNING EQUIPMENT

(1) Type		Oil hydraulic type
(2) Turning speed	(rpm)	80 - 120

1.5 GLAND STEAM SEAL SYSTEM

(1) Gland steam seal regulator

Type		Electropneumatic
Size		5.0 T/H
Regulating pressure	(kg/cm^2g)	0.1

(2) Gland steam exhaust blower

Type		Blower
Manufacturer		Izumi-Sofuki Co., Ltd. or equivalent
Number		2
Capacity	(m^3/H)	960
Exhaust pressure	(mmHg)	180
Speed	(rpm)	3000
Material		
Casing		Rolled steel
Shaft		N.A. (Connected with motor shaft)
Impeller		Aluminium alloy casting

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor

The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

Weight complete (kg) approx. 100 (each)

(3) Gland steam condenser

Type		Shell and tube type
Manufacturer		Fuji Electric Co., Ltd.
Cooling surface area	(m^2)	16
Cooling water flow	(m^3/H)	Max. 600
Tube size and thickness	(mm)	ø19 (outside) x 1 (thickness)
Number of tube		298
Heat transfer coefficient	(kcal/H/m^2/°C)	500
Friction loss through tubes	(kg/cm^2)	0.1
Dimension		
Total length	(mm)	1010
Shell diameter	(mm)	610
Design pressure		
Tube side	(kg/cm^2g)	25.5
Shell side	(kg/cm^2g)	-0.1
Design temperature		
Tube side	(°C)	100
Shell side	(°C)	100
Material		
Tube		Aluminum brass
Shell		Carbon steel

7th Issue-3

T. Yoneda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Water box		Carbon steel
Tube sheet		Carbon steel
Weight	(kg) approx.	750

1.6 L.P TURBINE BYPASS SYSTEM

(1) Bypass valve (LP)

Type		Pneumatic control valve
Number		1
Manufacturer		EURO CONTROLS or OKANO or FISHER *
Size		~~3800 x 1500ϕ (mm)~~
Capacity	(kg/H)	230,000
Material		~~13 Cr Mo 44~~
Pressure control		(Yes) , ~~No~~
Start up		(use) , ~~no use~~
Actuater		Pneumatic
Noise (as a complete set)	(dB (A))	at the design stage ~~To be informed later~~
Weight	(kg) approx.	~~=~~ 2.2 (ton) **

(2) Control panel

Type		~~Vertical type~~
Dimension	(mm)	700(w)x820(D)x2350(H)
Weight	(kg) approx.	600

* 7th Issue-4
**15th Issue-5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2. AUXILIARY EQUIPMENT

2.1 SURFACE CONDENSER

(1) Condenser

Type		Two passes, divided water box, horizontal surface ~~Surface Type~~ 11th Issue-5
Manufacturer		Fuji Electric Co., Ltd. or KHIC
Performance data		
Design heat duty (at MCR)	(kcal/H)	283582.3×10^3
Design absolute pressure	(mmHg abs.)	82.55
Heat transfer coefficient	(kcal/H/m^2/°C)	2995.6
Circulating water capacity	(m^3/H)	30500
Circulating water inlet temperature	(°C)	35.6
Circulating water outlet tempeature	(°C)	44.92
Cleanliness factor	(%)	0.85
Condensate oxygen content	(cc/liter)	0.01
Water velocity in tube	(m/sec)	2.0
Friction loss through tube	(kg/cm^2)	0.46
Total effective tube surface	(m^2)	15002
Tube		
Effective tube length	(mm)	9600
Overall tube length	(mm)	9680
Size and thickness	(mm)	Aluminum brass ø25.4/1 Prot-16 Titanium ø25.4/0.5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number of tube		19584
Number of tube in air cooling zone		1371
Material		Condensing Zone : Aluminum brass Air Cooling Zone: Titanium
Dimension		
Overall length	(mm)	13500
Height (including neck)	(mm)	10450
Overall width	(mm)	7800
Material		
Shell		Carbon Steel (SS41)
Water box		" (")
Tube sheet		Naval brass
Hot well		Carbon Steel (SS41)
Tube support plate		" (")
Metal thickness		
Shell	(mm)	16, 19
Water box	(mm)	19
Tube sheet	(mm)	40
Hot well	(mm)	16
Hot well capacity	(m^3)	11
Design pressure		
Water box and tube	(kg/cm^2g)	4.5
Shell	(kg/cm^2g)	-1
Weight		
Empty	(kg) approx.	375×10^3
Operating	(kg) approx.	533×10^3

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Flooded	(kg) approx.	825×10^3
Divided package number of shipping		Refer to Packing List

(2) Expansion joint for turbine exhaust connection

Material		N.A.
Thickness	(mm)	N.A.

11th Issue-6

(3) Butterfly valve

Type		Motor Operated
Manufacturer		Kurimoto Ltd., Kubota Ltd., ~~Tomoe Valve or~~ Showa Valve
Number		~~7~~ 4
Size	(mm)	1350
Material		Cast Iron
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	3000

7th Issue-5

14th Issue-B.1
Prot-15

(4) Expansion joints for circulating water piping inlet and outlet

Type		Rubber
Number		4
Size	(mm)	1350
Material		Rubber and Carbon Steel
Number of ply		1

Prot-20

(5) Cathodic protection equipment

Type	Impressed Current
Manufacturer	Nakagawa Corrosion Protecting Co. Ltd. or Nippon Corrosion Engineering Co., Ltd.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Electrode		
Material		Platinized Niobium
Number		32
Service life	(year)	5
Panel		
Type		Self Standing
Dimension	(mm)	1200 (L) x 1250 (W) x 2100 (H)
Weight	(kg) approx.	1,000

2.2 COOLING TOWER

(1) General

Type		Mechanically Induced Draft Cross Flow
Manufacturer		Shinko-Pfaudler Co., Ltd. or IHI or GEA or FAVRA
Circulating water flow	(m^3/H)	33,000
Hot water temperature (return circulating water)	(°C)	45.6
Cold water temperature (supply circulating water)	(°C)	35.6
Wet bulb temperature (inlet ambient)	(°C)	28.6
Tower pump head	(m)	13.4m from Top of Basin Curb
Total power consumption of fans	(KW)	792
Drift loss (% of circulating water flow)	(%)	0.08 Max.
Evaporation loss (% of circulating water flow)	(%)	1.6

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Design wind load	(m/H)	100 Mile/Hr
Design seismic load	(G)	0.1G
Elevation site		Ground Level

(2) Cooling tover structure

Type		Reinforced Concrete Structure
Manufacturer		Lot-II
Number of cells		6 Cells
Fans per cell		One
Total number of fans		6 Sets
Cell dimension		
Length	(mm)	11,400
Width	(mm)	25,200
Overall tover dimension		
Length	(mm)	68,700
Width	(mm)	25,200
Height	(mm)	11,580
Height (basin curb to fan deck)	(mm)	11,580
Height of fan stack	(mm)	5,730
Cooling water basin dimension		
Length	(mm)	68,300
Width	(mm)	18,700
Height	(mm)	1,500
Hot water inlet (return circulating water)		
Number		2 Sets
Diameter	(mm)	1,400

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Description		JIS 10 Kg/cm2.Flange
Height from basin	(mm)	12,700
Access to top of tover		Stairway
Shipping veight	(kg)	159,000
Operating veight	(kg)	303,000

(3) Material

*Lot II supply

Cooling tover framevork	Reinforced Concrete*
Vall casing	Asbestos Cement Boards
Air inlet louver	Asbestos Cement Boards
Cell partition vall	Asbestos Cement Boards
Fill support	PC Concrete*
Eliminator support	Treated Douglas Fir
Fan deck	Reinforced Concrete*
Fan stack	FRP
Fill	Polypropylene(Splash Type)
Eliminator	Rigid PVC
Louver support	PC Concrete*
Vater distribution	PC Concrete*
Splasher or spray nozzle	Polypropelene
Stairvay	Painted Carbon Steel
Handrail	Painted Carbon Steel
Structure connector	Not Applicable
Bolt, nut, vasher	Hot Dip Galv. Steel
Anchor connection	Hot Dip Galv. Steel
Anchor bolt	Hot Dip Galv. Steel
Cooling water basin	Reinforced Concrete*

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Screen		Hot Dip Galvanized Steel
Stop log		Tar Epoxy Coated Carbon Steel
Mechanical equipment support		Hot Dip Galvanized Steel
(4) Cooling fan		
Type		Axial Flow Propeller Fan
Manufacture		Shinko-Pfaudler Co., Ltd. or IHI or GEA or FAVRA
Number		6
Diameter	(mm)	8,535
Number of blades		8
Fan speed	(rpm)	130
Tip speed	(m/sec.)	58.1
Power consumption per fan	(KW)	121
Blade material		FRP
Total static pressure	(mmAq)	10.34
Velocity pressure	(mmAq)	8.05
Capacity per fan	(m^3/min.)	37,240
Fan static efficiency	(%)	40.0
(5) Gear speed reducer		
Type		Spiral Bevel/Helical Gear
Manufacturer		Nippon Gear Co. or GEA or FAVRA
Number		6
Reduction ratio		11.28/1
AGMA mechanical H.P rating	(KW)	160
Service factor (at rated H.P of driver)		2.0

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MITSUI & CO., LTD.
(Tenderer's Name)

Number of reductions		Double
(6) Drive shaft		
Type		Non-lublicated Torque-Tube
Manufacturer		Nippon Pillar Pack. Co.
Number		6
Rated H.P	(KW)	160
Drive shaft material		Stainless Steel
Coupling material		Stainless Steel
(7) Fan motor		
Type		TEFC 3 Phase Induction Motors
Manufacturer		Fuji Electric
Number		6
Full load speed	(rpm)	1,460
Phase		3
Cycles	(Hz)	50
Volts	(V)	380
Rated H.P	(KW)	132
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
(8) Screen		
Type		Bar Screen
Manufacturer		Fuji Electric or KSEW
Number		6
Dimension L x W x T	(mm)	4,800 x 2,350 x 500
Weight per screen	(kg)	300

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(9) Stop log

Type		Sluice
Manufacturer		Fuji Electric or KSEW
Number		6
Dimension L x W x T	(mm)	3,100 x 3,300 x 50
Weight per stop log	(kg)	550

(10) Sludge pump

Type		Horizontal, Single Suction, Volute
Manufacturer		Ebara Corporation or See Note
Number		1
Capacity	(m^3/H)	20
Discharge pressure	(kg/cm^2g)	2
Speed	(rpm)	3000 (ss)
Shaft horse power	(KW)	2.11
Shaft length	(mm)	Approx. 385
Connection size	(mm)	Suc. 50 / Dis. 40
Material		
Casing		Cast Iron
Shaft		Carbon Steel
Impeller		Stainless Steel Casting
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg) approx.	150

Note: (Manufacturer)
(1) YOSHIKURA KOGYO CO., LTD.
(2) KUBOTA, LTD.
(3) KSB PAKISTAN

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2.3 AIR EJECTOR

(1) Steam jet air ejector with condenser

Type		Twin element, two stages with coolers
Manufacturer		Fuji Electric Co., Ltd.
Number		~~2~~ 1 11th Issue-7
Air suction capacity	(kg/H)	31
Suction vacuum	(mmHg abs.)	25.4
Operating steam pressure	(kg/cm^2g)	Ca 14
Operating steam temperature	(^oC)	Ca 300
Steam consumption	(kg/H)	560
Condenser		
Cooling surface area (intercondenser, altercondenser)	(m^2)	33
Tube size and thickness	(mm)	φ19/1
Tube length	(mm)	1295
Tube number		480
Heat transfer coefficient	($kcal/H/m^2/^oC$)	Inter cooler-680 After cooler-500
Design cooling water capacity	(kg/H)	504,870
Minimum cooling water capacity	(kg/H)	100,000
Friction loss through tube	(kg/cm^2)	0.5
Design pressure		
Tube side	(kg/cm^2g)	25.5
Shell side	(kg/cm^2g)	Full vacuum ~ 0.5

15. Upon

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension		
Overall length	(mm)	2500
Shell diameter	(mm)	780
Material		
Tube		Stainless Steel (SUS304TB)
Shell		Carbon Steel (~~SS41~~ SB42)
Water box		" (" SB42)
Tube sheet		" (" SB42) **
Suction chamber		" (" SB41)
Steam nozzle		Stainless Steel (SUS304)
Weight (assembly)	(kg) approx.	2500

(2) Starting air ejector

Type		Single element, Single stage
Manufacturer		Fuji Electric
Number		1
Air suction capacity	(kg/H)	~~14~~ 1,427 *
Suction vacuum	(mmHg abs.)	254
Operating steam pressure	(kg/cm^2g)	Ca 14
Steam consumption	(kg/H)	2600
Material		
Suction chamber		Carbon Steel (SS41)
Steam nozzle		Stainless Steel (SUS304)
Weight	(kg) approx.	800

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2.4 PRIMING VACUUM EQUIPMENT

Prot-17

(1) Priming vacuum pump and tank

Type		N.A. See Clarification	7th Issue-7 14th Issue-B.2
Manufacturer			
Number			
Air suction capacity	(m^3/H)		
Suction vacuum	(mmHg abs.)		
Seal water capacity	(kg/H)		
Speed	(rpm)		
Material			
Casing			
Rotor			
Shaft			
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.	
Water tank			
Capacity	(m^3)		
Material			
Weight (assembly)	(kg) approx.		

2.5 CIRCULATING WATER PUMP

(1) Circulating water pump

Type		Vertical, Single Suction, Mixed Flow
Manufacturer		KUBOTA, LTD. or See note
Number		3

NOTE
(1) Ebara Corporation
(2) Yoshikura Kogyo Co., Ltd.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

7th Issue-8

Performance		
Capacity	(m^3/H)	16500
Total head	(m)	26
Shut off head	(m)	45
Pump efficiency	(%)	86
Shaft horse pover	(KW)	1356
NPSH required	(m)	9.4
Speed	(rpm)	500 (S.S.)
Dimension		
Pump shaft length	(mm)	5900
Pump shaft diameter	(mm)	180
Suction bell mouth diameter	(mm)	1860
Discharge connection diameter	(mm)	1350
Lubricating water system		
Water capacity	(m^3/H)	3.6
Lubricating water pump		~~Yes~~ , (No)
Material		
Impeller		Stainless Steel Casting
Suction bell mouth and discharge ball		Cast Iron
Column and sicharge elbow		Cast Iron
Shaft		Carbon Steel
Shaft enclosing tube		Stainless Steel
Bearing		Rubber & Stainless Steel

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Anode plate		~~Yes~~ / ~~No~~ 7th Issue-8
Weight		
Pump	(kg) approx.	17,200
Motor	(kg) approx..	13,000
Assembly	(kg) approx.	30,200

(2) Discharge valve

Type		Butterfly
Manufacturer		Kurimoto Ltd. or See Note
Number		3
Size	(mm)	1350
Material		Cast Iron
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	3,000

(3) Expansion Joint of pump discharge

Type		Rubber
Number		3
Size	(mm)	1350
Material		Rubber and Carbon Steel

Note:
(1) KUBOTA LTD.
(2) TOMOE VALVE CO., LTD.
(3) SHOWA VALVE CO., LTD.

10. Yonda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2.6. CONDENSATE PUMP

(1) Condensate pump

Type		Vertical, Barrel Type, Multi Stage
Manufacturer		EBARA CORPORATION or See Note
Number		3
Performance		
Capacity	(ton/H)	280
Total head	(kg/cm^2g)	20.5
Shut off head	(kg/cm^2g)	25
Pump efficiency	(%)	77
Shaft horse power	(KW)	203.1
NPSH required	(m)	3.1
Speed	(rpm)	1500 (S.S.)
Number of stage		7
Connection size		
Suction	(mm)	250
Discharge	(mm)	150
Dimension		
Pit can depth	(mm)	4500
Pit can diameter	(mm)	N.D. 600
Material		
Impeller		BRONZE CASTING
Casing		CAST IRON
Shaft		STAINLESS STEEL
Outer barrel		CARBON STEEL

NOTE:
(1) YOSHIKURA KOGYO CO., LTD.
(2) KUBOTA, LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor

The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

Weight

Pump	(kg) approx.	3600
Motor	(kg) approx.	1700
Assembly	(kg) approx.	5300

2.7 FEEDWATER HEATER

(1) Low pressure feedwater heaters

		No. 1 Heater	No. 2 Heater
Type		Closed U tube horizontal mounting	Closed U tube horizontal mounting
Manufacturer		Fuji Electric, KHIC or HHI	South Western,
Tube surface area			
Condensing zone	(m^2)	118	408
Drain cooling zone	(m^2)	-	147
Total	(m^2)	118	555
Water velocity in tube	(m/sec)	2.0	2.1
Friction loss through tube	(kg/cm^2)	0.4	1.2
Design water flow	(kg/H)	504,870	626,189
Heat transfer coefficient	(kcal/H/m^2/°C)	3277	Condensing 3655 Drain 1354
Tube			
Size and thickness	(mm)	ø19/1	ϕ19/1
Number of tube		333	387
Number of tube pass		2	2

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 Heater	No. 2 Heater
Dimension			
Overall length	(mm)	4100	13600
Shell diameter	(mm)	1018	1318
Shell thickness	(mm)	9	9
Material			
Channel and channel cover		Carbon steel (SB46)	Carbon steel (SB46)
Shell		Carbon steel (SB46)	Carbom steel (SB46)
Tube		Aluminum brass	Carbon steel (STB42)
Tube sheet		Carbon steel (SB46)	Carbon steel (SB46)
Design pressure and temperature			
Tube side	(kg/cm^2g, °C)	25.5/100	25.5/100
Shell side	(kg/cm^2g, °C)	0.9/100	0.9/120
Design terminal temperature difference	(°C)	2.80	2.80
Design drain cooler approach	(°C)	N.A.	5.60
Weight			
Empty	(kg) approx.	6100	15800
Operating	(kg) approx.	7150	24300
Flooded	(kg) approx.	9000	32720

	No. 3 Heater	No. 4 Heater
Type	Closed U tube horizontal mounting	
Manufacturer	Fuji Electric, South Western KHIC or HHI	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 3 Heater	No. 4 Heater
Tube surface area			
Condensing zone	(m^2)	415	401
Drain cooling zone	(m^2)	94	38
Total	(m^2)	509	439
Water velocity in tube	(m/sec)	2.1	2.1
Friction loss through tube	(kg/cm^2)	1.1	1.0
Design water flow	(kg/H)	626,189	626,189
Heat transfer coefficient	(kcal/H/m^2/°C)	Condensing 3775 Drain 1432	3774 1531
Tube			
Size and thickness	(mm)	ϕ19/1.0	ϕ19/1.0
Number of tube		387	387
Number of tube pass		2	2
Dimension			
Overall length	(mm)	12600	11300
Shell diameter	(mm)	1218	1218
Shell thickness	(mm)	9	9
Material			
Channel and channel cover		~~Carbon Steel (SB46)~~	Carbon Steel (SB46)
Shell		~~Carbon Steel (SB46)~~	Carbon Steel (SB46)
Tube		~~Carbon steel (STB42)~~	Carbon Steel (STB42)
Tube sheet		~~Carbon Steel (SB46)~~	Carbon Steel (SB46)
Design pressure and temperature			
Tube side	(kg/cm^2g, °C)	25.5/130	25.5/160
Shell side	(kg/cm^2g, °C)	2.0/210	5.5/290

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 3 Heater	No. 4 Heater
Design terminal temperature difference	(°C)	2.80	2.80
Design drain cooler approach	(°C)	5.60	5.60
Weight			
Empty	(kg) approx.	13500	12800
Operating	(kg) approx.	20600	19300
Flooded	(kg) approx.	27800	25500

(2) High pressure feedwater heaters

		No. 6 Heater	No. 7 Heater
Type		Closed U tube horizontal Mounting	Closed U tube horizontal Mounting
Manufacturer		Fuji Electric	Fuji Electric
Tube surface area			
Desuperheater zone	(m^2)	146	119
Condensing zone	(m^2)	490	626
Drain cooling zone	(m^2)	109	90
Total	(m^2)	745	835
Water velocity in tube	(m/sec)	1.9	1.9
Friction loss through tube	(kg/cm^2)	1.0	1.2
Design feedwater flow	(kg/H)	743,062	743,062
Heat transfer coefficient	(kcal/H/m^2/°C)	Desuperheat 187 Condensing 3406 Drain 1758	318 3331 1615
Tube			
Size and thickness	(mm)	ø15.9/1.9	ø15.9/1.9
Number of tube		1001	1001
Number of tube pass		2	2

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 6 Heater	No. 7 Heater
Dimension			
Overall length	(mm)	9800	10600
Shell diameter	(mm)	1390/1382	1406
Shell thickness	(mm)	20/19	28
Material			
Channel and channel cover		SB49	SB49
Shell		SB49/SCMV1	SB49
Tube		STB42	STB42
Tube sheet		SF50A	SF50A
Design pressure and temperature			
Tube side	(kg/cm^2g, °C)	243/218	243/253
Shell side	(kg/cm^2g, °C)	23/465	44.5/350
Design terminal temperature difference	(°C)	-1.0	0
Design drain cooler approach	(°C)	5.60	5.60
Weight			
Empty	(kg) approx.	29500	36700
Operating	(kg) approx.	36200	42100
Flooded	(kg) approx.	40700	48900

	No. 8 Heater
Type	N.A.
Manufacturer	"
Tube surface area	"
Desuperheater zone (m^2)	"
Condensing zone (m^2)	"

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 8 Heater
Drain cooling zone	(m^2)	N.A.
Total	(m^2)	"
Water velocity in tube	(m/sec)	"
Friction loss through tube	(kg/cm^2)	"
Design feedwater flow	(kg/H)	"
Heat transfer coefficient	($kcal/H/m^2/^oC$)	"
Tube		
Size and thickness	(mm)	"
Number of tube		"
Number of tube pass		"
Dimension		
Overall length	(mm)	"
Shell diameter	(mm)	"
Shell thickness	(mm)	"
Material		
Channel and channel cover		"
Shell		"
Tube		"
Tube sheet		"
Design pressure and temperature		
Tube side	(kg/cm^2, ^oC)	"
Shell side	(kg/cm^2, ^oC)	"
Design terminal temperature difference	(^oC)	"

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

No. 8 Heater

Design drain cooler approach	(°C)	N.A.
Weight		
Empty	(kg) approx.	"
Operating	(kg) approx.	"
Flooded	(kg) approx.	"

(3) Drain pump and drain tank

		Pump	Tank
Type		Horizontal Malti-Stage	Vertical
Manufacturer		EBARA CORP. or See Note (A)	FUJI ELECTRIC or See Note (B)
Number		2	1
Capacity	(m^3/h, m^3)	130	2
Discharge pressure	(kg/cm^2g)	18.5	-
Pressure (Maximum)	(kg/cm^2g)		0.9
Speed	(rpm)	1500 (S.S.)	
Material			
Casing		CAST IRON	CARBON STEEL
Shaft		CARBON STEEL	
Impeller		BRONZE CASTING	
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.	
Weight complete	(kg) approx.	1400	1800

NOTE (A)
(1) YOSHIKURA KOGYO CO.LTD.
(2) KUBOTA, LTD.

NOTE (B)
(1) NAMURA SHIP BUILDING CO.LTD.

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Tenderer's Name

MITSUI & CO., LTD.
(Tenderer's Name)

2.8 DEAERATOR

(1) Deaerating heater

Type		Tray type
Manufacturer		FUJI ELECTRIC
Design quantity	(ton/H)	~~626,189~~ 626.189 7th Issue-9
Oxygen content	(cc/liter)	≦ 0.005
Dimension		
Overall length	(mm)	5150
Diameter	(mm)	3000
Shell thickness	(mm)	24
Material		
Shell		Carbon Steel (SB46)
Tray		Stainless Steel (SUS304)
Spray valve		N.A. **11th Issue-8
Design pressure	(kg/cm^2g)	11.5
Design temperature	(^oC)	370
Weight		
Empty	(kg) approx.	12800
Operating	(kg) approx.	13400
Flooded	(kg) approx.	42800
Relief valve		
Type		~~To inform later~~ full bore type
Manufacturer		~~NAKAKITA SEISAKUSHO or MOTOYAMA~~ Prot-13

(2) Storage tank

Capacity at operating level	(m^3)	132.3

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension		
Overall length	(mm)	17000
Diameter	(mm)	3500
Shell thickness	(mm)	28
Shell material		Carbon Steel (SB46)
Weight		
Empty	(kg) approx.	46800
Operating	(kg) approx.	180000
Flooded	(kg) approx.	198500

2.9 BOILER FEED PUMP

(1) Boiler feed pump

Type		Horizontal, Barrel
Manufacturer		Ebara Corporation or See Note
Number		3
Performance		
Capacity	(ton/H)	483
Total head	(kg/cm^2g)	192.2
Discharge head	(kg/cm^2g)	207.27
Shut off pressure	(kg/cm^2g)	243.2
Feed water temperature	(^oC)	184.1
Minimum flow	(ton/H)	125
Pump efficiency	(%)	81
Shaft horse power	(KW)	3513.6
NPSH required	(m)	24
Noise (as a complete set)	dB (A)	90

NOTE:
(1) TORISHIMA KSB
(2) SHIN-NIPPON MACHINARY CO.LTD
(3) NIIGATA WORTHINGTON CO.LTD

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number of stage		5
Type of bearing		Radial: Sleeve Thrust: Kingsbury
Type of seal		Mechanical
Type of coupling		Fluid Coupling
Connection size		
Suction	(mm)	250
Discharge	(mm)	200
Material		
Outer casing		Forged Steel
Inner casing		Stainless Steel Casting
Shaft		Stainless Steel
Impeller		Stianless Steel Casting
Sleeve		Stainless Steel
Common bed		Carbon Steel
Minimum flow orifice		Stainless Steel
Warm-up orifice		Stainless Steel
Weight		
Pump	(kg) approx.	6,500
Motor	(kg) approx.	8,200
Speed increasing gear	(kg) approx.	5,200
Booster pump (if necessary)	(kg) approx.	881
Assembly	(kg) approx.	29,781 (including BASE PLATE and L.O. UNIT)

(2) Lubricating oil system

(a) Auxiliary oil pump

Type	Horizontal, Gear

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Capacity	(m^3/H)	24
Discharge pressure	(kg/cm^2g)	3

(b) Oil cooler

Type		Shell and Tube
Cooling water flow	(m^3/H)	For working oil cooler: 60 For lube oil cooler: 37

(c) Oil reservoir

Type		Hung from Fluid Coupling Box
Capacity	(m^3)	1.5

(3) Discharge valve

Type		Motor Operated
Number		3
Size	(mm)	250
Rating and material		ANSI 1500Lb Sb.Cl./STEEL CASTING

(4) Speed increasing gear with fluid coupling

Type		Geared Fluid Coupling
Manufacturer		Ebara Corporation or VOITH
Number of set		3
Type of bearing		Radial: Sleeve Thrust: Tilting Pad
Material		
Casing		Cast Iron
Drive gear		Nickel-Chrome Steel
Driven gear		Nickel-Chrome Steel
Bearing		Radial: Carbon Steel Thrust: Babbit Metal

Direct driven L.O. pump

Type		Vertical Type
Capacity	(m^3/H)	24

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Discharge pressure	(kg/cm^2g)	3

(5) Booster pump (If required)

The necessity of booster pump Fill in the folloving blanks if the booster pump is required.		(Yes) / ~~No~~
Type		Horizontal, Single Suction, Volute
Manufacturer		Ebara Corporation or See Note
Number of set		3
Capacity	(m^3/H)	547.2 (483 t/h)
NPSH required	(m)	5.0
Total pressure	(kg/cm^2g)	3.8
Connection bore of suction/discharge	(mm)	200/150
Gland type		Mechanical Seal
Material		
Casing		Stainless Steel Casting
Impeller		Ditto
Shaft		Stianless Steel

(6) Design data

Vertical height between deaerator lovest water level and pump impeller center	(m)	22.8
Piping head loss from deaerator outlet to boiler feed pump inlet	(m)	2.5
Available NPSH	(m)	20.3
Flov at feed pump inlet	(m^3/H)	547.2 (483 T/H)
Pressure at feed pump inlet	(kg/cm^2g)	12.26

NOTE:
(1) Torishima KSB
(2) Shin-Nippon Machinary Co., Ltd
(3) Niigata Worthington Co., Ltd.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Temperature at feed pump inlet	(°C)	184.1
Suction pipe		
Nominal bore (mm) x thickness		350 x 11.1
Material		STPG38S
Pump discharge pipe		
Nominal bore (mm) x thickness		250 x 28.6
Material		STPT49

(7) Suction strainer

Type	BACK WASH TYPE
Manufacturer	EBARA CORPORATION, TORISHIMA KSB SHIN-NIPPON MACHINARY CO., LTD. or NIIGATA WORTHINGTON
Number of set	3
Strainer mesh	60
Material	
Casing and cover	CARBON STEEL
Strainer	STAINLESS STEEL

(8) Recirculation control valve

Type		PNEUMATIC CYLINDER TYPE
Manufacturer		OKANO VALVE MFG. CO.
Number of set		3
Flow capacity	(m^3/H)	125
Fluid temperature	(°C)	185
Fluid pressure	(kg/cm^2g)	230
Material		
Body		WCB
Bonnet		DITTO

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(Tenderer's Name)

Disc		Stainless Steel
Seat		Ditto
Stem		Ditto

(9) Orifice

Type		Corner Tap Orifice
Number of set		3
Flow	(m^3/H)	125
Inlet/Outlet pressure	(kg/cm^2g)	230/5
Material		Stainless Steel

2.10 BEARING COOLING WATER HEAT EXCHANGER

(1) Bearing cooling water heat exchanger

Type		Shell & Tube type
Manufacturer		Fuji Electric, KHIC or HHI
Number		2 set
Tube surface area	(m^2)	~~2100~~ 1,600*
Water velocity in tube	(m/sec)	1.3
Friction loss at design flow		
Tube side	(kg/cm^2)	0.35
Shell side	(kg/cm^2)	~~Inform later~~ 0.6 Prot-13
Secondary cooling water flow	(m^3/H)	~~2000~~ 1,750*.
Primary cooling water flow (from CWP)	(m^3/H)	~~3000~~ 2,500*
Heat transfer coefficient	(Kcal/H/m^2/°C)	1000
Secondary cooling water temperature		
Inlet	(°C)	53

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Outlet	(°C)	49 7th Issue-10
Primary cooling water design temperature (from CWP)		
Inlet	(°C)	45.2
Outlet	(°C)	48
Tube		
Size and thickness	(mm)	ø19/1
Number of tube		5650
Number of tube pass		2
Dimension		
Overall length	(mm)	7800
Shell diameter	(mm)	ø2200
Material		
Water box and cover		Carbon Steel (SS41)
Shell		" (")
Tube		Aluminum brass
Tube sheet		Naval brass
Design pressure		
Tube side	(kg/cm^2g)	5.0
Shell side	(kg/cm^2g)	8.0
Weight		
Empty	(kg) approx.	68000
Operating	(kg) approx.	110000
Flooded	(kg) approx.	110000

Emergency
(2) Primary cooling water ~~booster~~ pump

Type	HORIZONTAL, SINGLE SUCTION

* 7th Issue-12
14th Issue-B.3
Prot-18

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		EBARA CORPORATION or See Note
Number		~~2~~ 1 Prot-18
Performance		Prot-18
Capacity	(m^3/H)	approx.300 ~~80~~ 11th Issue-9
Total head	(kg/cm^2g)	26
Shaft horse power	(KW)	8.5
Speed	(rpm)	3000 (S.S.)
Connection size		
Suction	(mm)	100
Discharge	(mm)	80
Material		
Casing		CAST IRON
Impeller		BRONZE CASTING
Shaft		CARBON STEEL
Type of shaft seal		GLAND PACKING
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Dimension	(mm)	1300(L) X 450(W) x 460(H)
Weight (assembly)	(kg) approx.	310
Strainer		N.A. 11th Issue-9
Type		
Manufacturer		
Number		
Mesh		

NOTE:
(1) YOSHIKURA KOGYO, CO. LTD.
(2) KUBOTA, LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material		
Outer casing		
Inner parts		
Lifting equipment		~~Yes~~ / (No)

2.11 BEARING COOLING WATER PUMP

(1) Bearing cooling water pump

Type		HORIZONTAL, SINGLE SUCTION
Manufacturer		EBARA CORPORATION or SEE NOTE
Number		3
Performance		
Capacity	(m^3/H)	975 7th Issue-13
Total head	(kg/cm^2g)	3.5
Shaft horse power	(KW)	114
Speed	(rpm)	1500 (S.S.)
Connection size		
Suction	(mm)	250
Discharge	(mm)	200
Material		
Casing		CAST IRON
Impeller		BRONZE CASTING
Shaft		CARBON STEEL
Type of shaft seal		GLAND PACKING
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

NOTE:
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(2) KUBOTA, LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension	(mm)	2100(L) x 750(W) x 1100(H)
Weight (assembly)	(kg) approx.	1460

2.12 CHEMICAL INJECTION SYSTEM FOR BEARING COOLING WATER

(1) Chemical injection pump

Type		PLUNGER
Manufacturer		EBARA INFILCO or See Note
Number		2
Capacity	(l/min)	~~15~~ 1.5 7th Issue-11
Discharge pressure	(kg/cm^2g)	5
Material		
Cylinder casing		STAINLESS STEEL
Plunger		Ditto
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	400

(2) Chemical solution tank

Type	VERTICAL & CYLINDRICAL
Number	1
Capacity	1 m^3
Material	STAINLESS STEEL
Mixer	
Type	PROPELLER
Material	STAINLESS STEEL

NOTE:
(1) NIKKISO CO., LTD.
(2) JAPAN ORUGANO CO., LTD.
(3) SAKURA SEISAKUSHO, LTD.
(4) KURITA WATER CO., LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	360

2.13 MAKE UP WATER TRANSFER PUMP

(1) Pump

Type		HORIZONTAL, SINGLE SUCTION
Manufacturer		EBARA CORPORATION OR See Note
Number		2
Capacity	(m^3/H)	120
Total head	(kg/cm^2g)	2.5 7th Issue-14
Shaft horse power	(KW)	10.7
Speed	(rpm)	3000 (S.S.)
Connection		
Suction	(mm)	100
Discharge	(mm)	80
Material		
Casing		CAST IRON
Impeller		BRONZE CASTING
Shaft		CARBON STEEL
Type of shaft seal		GLAND PACKING
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Dimension	(mm)	1300(L) x 450(W) x 460(H)

NOTE:
(1) YOSHIKURA KOGYO, CO., LTD.
(2) KUBOTA, LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight	(kg) approx.	310

2.14 MAKE UP WATER TANK

(1)	Type		AIR TIGHT TYPE
(2)	Manufacturer		NAMURA SHIPBUILDING CO., LTD. or ISHII IRON WORKS CO., LTD.
(3)	Number		1
(4)	Capacity	(m^3)	≒ 200
(5)	Inside diameter	(mm)	5,800
(6)	Shell height	(mm)	7,600
(7)	Material and thickness		Material / Thickness (mm)
	Wall plate		CARBON STEEL / 6.0
	Bottom plate		CARBON STEEL / 6.0
	Roof plate		CARBON STEEL / 4.5
	Floating deck		CARBON STEEL / 4.5
	Air tight seal		POLYURETHAN / -
(8)	Vertical number of course		5
(9)	Painting material		
	Inner surface		EPOXY RESIN
	External surface		ALKYD RESIN
(10)	Weight	(kg) approx.	17,000
(11)	Divided package number for shipping		10

11th Issue-19
Prot-19

2.15 ~~SULFURIC ACID~~ Phosphate INJECTION EQUIPMENT FOR CIRCULATING WATER

Type		PLUNGER
Manufacturer		SHINKO-PFAUDLER CO., LTD.
		EBARA INFILCO CO., LTD. SAKURA SEISAKU-SHO LTD. OR NIKKISO CO., LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		2
Capacity	(l/min)	0.031
Discharge pressure	(kg/cm^2g)	5.0
Material		
Cylinder casing		STAINLESS STEEL
Plunger		ditto
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	90

2.16 COOLING TOWER PUMP HOUSE OVERHEAD CRANE

(1)	Type		OVERHEAD
(2)	Manufacturer		DIA MACHINE, UBE INDUSTRIES, or EITAI MACHINERY
(3)	Number		ONE (1) SET
(4)	Capacity		
	Hoist	(ton)	± 20
(5)	Span (Center to center rails)	(mm)	15,000
(6)	Runway rail		
	Type		JIS 50 kg/m
	Length (total)	(mm)	21,000
(7)	Full load speed		
	Hoist	(m/min)	1.2
	Trolley travel	(m/min)	10
	Bridge travel	(m/min)	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(8) Maximum lift of hook

Hoist	(mm)	12,000
(9) Vertical control movement	(mm)	± MAX. 3
(10) Top runway rail to low point of roof truss		3,400

(11) Motor

The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

	Type	Voltage	KW	rpm
Hoist	Wound rotor	AC380V	6.3	1,000
Trolley travel	Wound rotor	AC380V	2.5	1,000
Bridge travel	Wound rotor	AC380V	2.5x2 SETS	1,000

(12) Brake

Hoist	AC MAGNETIC BRAKE
Trolley travel	ELECTRO-HYDRAULIC BRAKE
Bridge travel	ELECTRO-HYDRAULIC BRAKE

(13) Diameter of drum

Hoist	(mm)	400
(14) Bridge type		WELDED BOX
(15) Hoisting rope size		
Hoist	(mm)	16

(16) Wheel

		Bridge	Trolley
Diameter	(mm)	400	315
Number		4	4

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

			Bridge	Trolley
	Maximum load (each wheel)	(kg)	16,500	7,000
(17)	Trolley wire size	(mm^2)	3.5	
(18)	Material			
	Bridge		Rolled Steel	
	Trolley		Rolled Steel	
	Drum		Rolled Steel	
	Hoisting rope		High Carbon Steel Wire Rods	
	Trolley wire		600V 2 PNCT	
(19)	Weight			
	Bridge	(kg) approx.	12,700	
	Trolley	(kg) approx.	5,000	
	Assembly	(kg) approx.	~~5,600~~ 23,300 7th Issue-15	
(20)	Painting		Phthalic Acid Resin Paint	
(21)	Divided package number for shipping		15	

3. PIPING FOR STEAM TURBINE AND AUXILIARY EQUIPMENT

		Material	Size (mm)
(1)	Steam turbine		
	Turbine lead piping	C-Mo Steel STPG 38*	200-450 Prot-13
	Lubricating oil piping		15-400
	Gland steam seal piping		15-400
	Turbine drain piping	Carbon Steel STPA24, STPT38, STPA12, STPG38	25

*11th Issue-10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(2) Steam turbine auxiliary equipment	Material	Size (mm)
		7th Issue-16
Make up water piping system		
Supply	SUS304 ~~STPG38~~	125
Return	SUS304 ~~STPG38~~	125
Condensate piping system		
Condensate pump suction	STPY41	550
Condensate pump - Deaerator	STPG38	250 AND 300
Boiler feed water piping system		
BFP Suction	STPG38	350 AND 450
BFP - Feed water control valve	STPT49	250 AND 350
Feedwater control valve - final HP heater outlet	STPT49	250 AND 350
BFP minimum flow	STPT49	125
Circulating water piping system		
Each circulating water pump discharge	SS41 AND TAR EPOXY PAINT	1350
Circulating water pump discharge common header	SS41 AND TAR EPOXY PAINT	2000
Underground installation	TAR EPOXY GLASS WOOL CLOTH	DOUBLE LAYER
Condenser inlet and outlet	SS41 AND TAR EPOXY PAINT	1350
Priming vacuum piping system	N.A.	N.A. Prot-17
Condenser air extraction piping system		
Condenser - air ejector	Carbon Steel	200 ~~Informed later~~ Prot-13
Starting air ejector exhaust pipe	"	150

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Size (mm)
Cooling tover piping system		
Continuous blow piping	SGP	200
Bottom blow piping	SGP	80
Bearing cooling water piping system		
Main (supply, return)	SGP	500
Stand pipe	STPY41	600
Circulating water pump motor cooling	SGP	25
Primary cooling water piping system		
Bearing cooling water heat exchanger supply	STPY41 tar epoxy resin coating. ~~SGP~~	11th Issue-11 600 ~~100~~
Return	same as above ~~N.A.~~	600 ~~N.A.~~
Extraction steam piping system		
No. 1 extraction (to No.7 heater)	STPT38	200
No. 2 extraction (to No.6 heater)	STPA12	250
No. 3 extraction (to deaerator)	STPT38	300
No. 4 extraction (to No.4 heater)	STPG38	350
No. 5 extraction (to No.3 heater)	STPY41	500
No. 6 extraction (to No.2 heater)	SS41	700
No. 7 extraction (to No.1 heater)	SS41	500
No. 8 extraction	N.A.	N.A.
High pressure auxiliary steam piping system (from high pressure auxiliary steam header)		
Air ejector supply	STPT38	25
Steam seal supply	ditto	65

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Size (mm)
Deaerator supply	STPT38	200
Feedwater heater drain and vent piping system		
No. 8 HP heater drain	N.A.	N.A.
No. 7 HP heater drain	STPT38	150
No. 6 HP heater drain	ditto	200
No. 4 LP heater drain	STPG38	250
No. 3 LP heater drain	ditto	150
No. 2 LP heater drain	ditto	200
No. 1 LP heater drain	ditto	200
HP heater vent	STPT38	20
LP heater vent	STPG38	20
Service air piping system	SGP	20
Instrument air piping system	SGP	20
N_2 gas injection piping system	SGP	20
Seal water piping system	STPG38	50
Condenser tube cleaning water	SGP ~~N.A.~~	25 ~~N.A.~~ *
Condenser shell cleaning water	SGP ~~N.A.~~	25 ~~N.A.~~
Make up water piping	SEE PAGE DT-54	
(3) Temporary piping		
For turbine lubricating oil flushing	SGP	150
For hydrostatic test	STPG 38	25
For water flushing	SGP	250

* 11th Issue-11
15th Issue-23

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Size (mm)
For trial operation of auxiliary equipment	Not required ~~Inform later~~	Prot-13
(4) Total weight of piping for steam turbine and auxiliary equipment (ton) approx.	1,000	

4. INSULATION AND LAGGING FOR STEAM TURBINE AND AUXILIARY EQUIPMENT

(1) Heat insulation material	Heat transfer coefficient (Kcal/mH°C) Mean temp. at 70°C	Maximum allowable (°C)
Calcium silicate	0.046	650
Rock wool	0.033	600
Hard cement	0.257	500
Calcium silicate paste	0.055	650
Other material ( )		

(2) Insulation material	
Turbine casing	Calcium silicate
Feedwater heater	ditto
Deaerator	ditto
Boiler feed pump	Rock wool
Piping	
Turbine lead piping	Calcium silicate
Gland steam seal piping	ditto
Turbine drain piping	ditto
Reheat piping	ditto
Condensate piping	ditto
Turbine bypass system piping	ditto

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Boiler feedvater piping	Calcium silicate
Extraction steam piping	ditto
High pressure auxiliary steam piping	ditto
Feedvater heater drain piping	ditto
Outer drain and vent piping	ditto
Valve	Rock wool
(3) Description of safety insulation	Thermal insulated and wrapped by glass tapes of 0.45 mm thickness
(4) Lagging	
Material	Aluminium sheet
Thickness (mm)	Pipe: 0.5mm Equip: 1.0mm

5. PAINTING FOR STEAM TURBINE AND AUXILIARY EQUIPMENT

	Kind of paint	
	Primary painting	Finished painting
(1) Turbine casing	Alkyd resin red lead primer	Alkyd resin finish paint
(2) Turbine metal lagging	"	"
(3) Main oil tank	"	"
(4) Turbine oil storage tank	"	"
(5) Turbine lubricating oil equipment	"	"
(6) Gland steam condenser and exhaust blover	"	"
(7) Surface condenser	"	"
(8) Air ejector	"	"
(9) Priming vacuum pump and motor	N.A.	N.A.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Kind of paint: Primary painting	Finished painting
(10)	Circulating water pump and motor	Alkyd resin red lead primer	Alkyd resin finish pain
(11)	Condensate pump and motor	"	"
(12)	Feedwater heater (including drain pump & tank)	"	
(13)	Deaerator	"	
(14)	Boiler feed pump and motor	"	"
(15)	Bearing cooling water heat exchanger	"	"
(16)	Bearing cooling water pump and motor (including booster pump)	"	"
(17)	Chemical injection equipment of bearing cooling water	"	"
(18)	Make up water transfer pump	"	"
(19)	Insulated piping	"	"
(20)	Uninsulated piping	"	"
(21)	Panel	"	"
(22)	Cooling tower	"	"
(23)	Make up water tank	"	"

6. INSTRUMENTATION

6.1 ELECTRO-HYDRAULIC GOVERNOR CONTROL SYSTEM

(1)	Type	Solid state, analogue
(2)	Signal range (From/to another system)	4-20 mA
(3)	Manufacturer, Model No.	Fuji Electric, Transidyn-C
(4)	Number	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5)	System cabinet	
	Dimension (mm) W x D x H	3500 x 820 x 2350
	Grounding wire	Provided
	Anti-vibration rubber	(Yes) ~~No~~
(6)	Transmitter & actuator type	Refer to the attached catalogue No.CGE011
(7)	Control system block diagram with main interlock system by No.	G69027-CC/KIM-I001
(8)	Power supply system block diagram by No.	G69027-CC/KIM-I001
(9)	Outline arrangement of man-machine communication device by No.	G69027-CC/KIM-I001
(10)	Turbine trip circuit power source	DC220V
(11)	Outline composition of backup system for digital control system by No.	INV-ST2315-014-E
(12)	Operating condition of control system	Temp. 0 °C - 40 °C Humidity 0 % - 85 %R
(13)	Power source and consumption	DC 220 V 150 W AC 110 V 1200 VA - W Air N.A. Nl/min Oil N.A. kg/cm²g
(14)	MTBF more than 10^5 hours	(Yes) ~~No~~

6.2 TURBINE SUPERVISORY INSTRUMENT (TSI)

(1)	Type	On shaft/Proximity/etc.
(2)	Manufacturer	Fuji Electric, Bently Nevada or Shinkawa Electric
(3)	Number	1 set

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(4) Items

Eccentricity	(Yes)	No
Control valve position	(Yes)	No
Speed	(Yes)	No
Vibration (on shaft)	(Yes)	No
Expansion	(Yes)	No
Differential expansion	(Yes)	No
Bearing (metal, drain) temperature	(Yes)	No
Shell metal temperature	(Yes)	No
Others	TBN oil pressure	

(5) Vibration recorder

Manufacturer	Fuji Electric
Type and No.	PFA3/3 sets

(6) Digital indicator (Shaft vibration) (Yes) No

(7) Turbine/generator bearing temp. recorder

Manufacturer	Fuji Electric
Type and No.	PGN/2 sets

(8) Turbine casing metal temp. recorder

Manufacturer	Fuji Electric
Type and No.	PGN/1 set

(9) Turbine eccentricity, CV position & expansion

Manufacturer	Fuji Electric
Type and No.	PFA & PGN, One (1) each.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

6.3 SPECIAL INSTRUMENTS

(1) Make up water flow meter

Type		Positive displacement
Manufacturer		OVAL ENGINEERING
Flow range	(m^3/H)	5 - 35 m^3/H Prot-13
Accuracy	(%)	~~Enforced later~~ +0.2%
Calibrated by (Institute, laboratory)		engineer authorized by Japanese government

(2) Condenser circulating water leak detector (if equired)

Type	Not required 7th Issue-17
Sampling points (4 points or more)	
Manufacturer	

6.4 MISCELLANEOUS INSTRUMENTS AND CONTROL APPARATUS

	Manufacturer	Model No.
(1) Recorder		
Electric signal (V, mA etc.)	Fuji Electric	PFA, PGY, PGK, PGW, PEA
Temperature (for thermocouple, RTD)	Fuji Electric	PGN
(2) Indicator		
Dial type	Fuji Electric	SWM
Vertical type	"	PBA
(3) Transmitter		
Pressure (Draft)	N.A.	N.A.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Manufacturer	Model No.	
Temperature	N.A.	N.A.	
Flow	Fuji Electric	FEC	
Level	do	FNC	
Analysis (conductivity, pH, etc.)	Ref to 6.4(3) in DB-48		
(4) Controller			
Pressure	Nakakita		
Temperature	ditto		
Flow	N.A.		
Level	Nakakita		
Analysis (conductivity, pH, etc.)	Ref to 6.4(4) in DB-48		
(5) Switch			
Pressure (Draft)	Nagano Keiki	CQ21	*
Temperature	Kogyo Keiki	TBP-40	*
Flow	N.A		*
Level	Fushiman	SLG3	*
Limit switch	Yamatake	LSA4L	*
(6) Local indicator			
Pressure gauge	Nagano Keiki	A, B	*
Thermometer	Nagano Keiki	TL, TM	*
Flow (positive displacement type)	Oval	LW	*
Flow (other)	Tokyo Keiso	R100	*
Level	Tokyo Keiso	FT, FP	*

* 7th Issue-18
7th Issue-19

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Manufacturer	Model No.
(7)	Sight glass		
	Sight flow	Nagano or equivalent	
	Level glass gauge	Nagano or equivalent	
(8)	Primary element		
	Thermocouple	Fuji Electric	FT
	RTD	ditto	FTF
	Thermo-well	ditto	N.A.
	Flow orifice	ditto	FVA
	Flow nozzle	ditto	FVF
	pH	Ref to 6.4(8) in DB-49	
	Conductivity		
(9)	Control valve		Prot-13
		Nippon Fisher	E type body ~~Water contact~~
(10)	Manometer	Nagano Keiki	PM21-800 ~~Water contact~~
(11)	Thermocouple extension wire	Furukawa	Compensation wire
(12)	Control tubing	NKK or Kawasaki	STPG20

6.5 POWER CONSUMPTION

(1)	Instrument air	(Nm^3/min)	~~1.6~~	7th Issue-20
(2)	Electric power			
	AC 110V	(KW)	1.2	
	DC 220V	(VA)	500	

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SECTION IV

COMMON AUXILIARY EQUIPMENT

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SECTION-IV: COMMON AUXILIARY EQUIPMENT

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

IV. COMMON AUXILIARY EQUIPMENT

1. HOUSE BOILER

(1)	Type		SELFSTANDING, PACKAGED WATER TUBE BOILER
(2)	Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
(3)	Number		1
(4)	Capacity	(kg/H)	20,000
(5)	Design pressure	(kg/cm^2g)	10
(6)	Design temperature	(^oC)	181
(7)	Heat transfer surface	(m^2)	242
(8)	Efficiency at rated load	(%)	85.2
(9)	Gas temperature at boiler outlet	(^oC)	280
(10)	Steam outlet connection		
	Type of valve		ANGLE
	Size	(mm)	200
	Material		CAST IRON
(11)	Oil firing equipment		
	Burner		
	Type		GUN
	Number		1
	Atomizing method		AIR/STEAM
	Forced draft fan (type, flow x press.)		TURBO, m^3/min 370 x mmAq 570
	Fuel oil pump (type, flow x press.)		GEAR, L/H 3240 x Kg/cm^2g 10
	Combustion control		AUTOMATIC PROPORTIONAL

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Fuel oil consumption at max. evaporation	(kl/h)	1.70
	Fuel oil tank	(kl)	41
(12)	Feed water equipment		
	Feed water pump (type, flow x press.)		TURBINE, 23t/H x 12kg/cm^{2}g
	Feed water control (type)		THREE ELEMENT
	Feed water tank	(kl)	6
	Drain collecting tank	(kl)	6
(13)	Stack		
	Type		SELF-STANDING, CYLINDRICAL
	Material		CARBON STEEL
	Height	(mm)	10,000
	Diameter	(mm)	1,160
(14)	Control panel		
	Type		SELF-STANDING
	Dimension	(mm)	1,000W x 800D x 2,100H
(15)	Power source		
	Total KW		100
	Voltage		380V
	Phase		3
(16)	Total weight of house boiler	(kg)	88,800
(17)	Pressure control valve		
	Type		STEAM PRESS : PNEUMATIC
	Number		1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(18) Insulation material — ROCKWOOL

ALUMINUM SHEET

(19) Painting material — NO PAINT (AL. LAGG)

(20) Performance data for house boiler

		load	50%	75%	100%
Steam generation	(T/H)		10	15	20
Drum pressure	(kg/cm^2g)		9	9	9
Boiler outlet steam pressure	(kg/cm^2g)		7	7	7
Fuel oil consumption	(kg/H)		731.6	1097.1	1477.4
Excess air	(%)		25	20	15
Gas temp. at boiler outlet	(°C)		240	260	280
Number of burner			1	1	1
Boiler efficiency (HHV = 10,500 Kcal/kg)	(%)		86.0	86.1	85.2

Note : Efficiency is calculated in accordance with the formula given in clause 1.2.4, page C-5 of the Tender Specification Vol.2 Book-1.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2. TURBINE ROOM OVERHEAD CRANE

(1)	Type		OVERHEAD
(2)	Manufacturer		DIA MACHINE UBE INDUSTRIES, or EITAI MACHINERY
(3)	Number		ONE (1) SET
(4)	Capacity		
	Main hoist	(ton)	± 60
	Auxiliary hoist	(ton)	± 15
(5)	Span (Center to center rails)	(mm)	21,400
(6)	Runway rail		
	Type		JIS 50 kg/m
	Length (total)	(mm)	74,000
(7)	Full load speed		
	Main hoist	(m/min)	1.2
	Auxiliary hoist	(m/min)	5.0
	Trolley travel	(m/min)	10.0
	Bridge travel	(m/min)	20.0
(8)	Maximum lift of hook		
	Main hoist	(mm)	21,500
	Auxiliary hoist	(mm)	21,500
(9)	Vertical control movement	(mm)	± MAX. 3
(10)	Top runway rail to low point of roof truss		4,200 mm
(11)	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Type	Voltage	KW	rpm
Main hoist	Wound rotor	AC380V	17	1,000
Auxiliary hoist	Wound rotor	AC380V	17	1,000
Trolley travel	Wound rotor	AC380V	4	1,000
Bridge travel	Wound rotor	AC380V	6.3x2 SETS	1,000

(12) Brake

Main hoist	AC MAGNETIC BRAKE
Auxiliary hoist	AC MAGNETIC BRAKE
Trolley travel	ELECTRO-HYDRAULIC BRAKE
Bridge travel	ELECTRO-HYDRAULIC BRAKE HYDRAULIC FOOT BRAKE

(13) Diameter of drum

Main hoist	(mm)	1,000
Auxiliary hoist	(mm)	560

(14) Bridge type: WELDED BOX

(15) Operation cab size: 2,200 x 1,500 x 1,800

(16) Hoisting rope size

Main hoist	(mm)	22.4
Auxiliary hoist	(mm)	16

(17) Wheel

		Bridge	Trolley
Diameter	(mm)	560	450
Number		4	4
Maximum load (each wheel)	(kg)	47,000	23,000

(18) Trolley wire size: 3.5 (mm^2)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(19)	Material		
	Bridge		Rolled Steel
	Trolley		Rolled Steel
	Drum		Rolled Steel
	Hoisting rope		High Carbon Steel Wire Rods
	Trolley wire		600 V 2 PNCT
(20)	Weight		
	Bridge	(kg) approx.	34,200
	Trolley	(kg) approx.	20,000
	Assembly	(kg) approx.	~~15,000~~ 69,200 *
(21)	Painting		Phthalic Acid Resin Paint
(22)	Divided package number for shipping		20

* 7th Issue-15
  9th Issue-2

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3. WATER SUPPLY SYSTEM

3.1 INTAKE WATER SYSTEM

11th Issue-12

(1) Intake water pump

Type		Vertical mixed flow (TSE-V) ~~Vertical single-suction diffuser~~
Manufacturer		KUBOTA or EBARA or YOSHIKURA KSB PAKISTAN
Number		4
Performance		
Capacity	(m^3/H)	590
Total	(m)	29
Shut off head	(m)	40
Pump efficiency	(%)	76
Shaft horsepover	(KW)	61.2
NPSH required	(m)	6.1
Speed	(rpm)	s.s. 1500
Dimension		(for L.W.L.) | (for L.L.W.L.)
Pump shaft length	(mm)	Approx. 7800 | Approx. 12100
Pump shaft diameter	(mm)	Max. 80
Suction bell mouth diameter	(mm)	Approx. 600
Discharge connection diameter	(mm)	300
Suction strainer mesh		~~Approx. ϕ15 panching poles~~ 11th Issue-12
Lubricating water system		15th Issue-24
Water capacity	(m^3/H)	6.0/4 pumps ~~Not required~~ Prot-23

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material		
Impeller	Stainless steel casting	(JIS SYMBOL) SCS13
Suction bell mouth and discharge ball	Cast iron	FC25
Column and discharge elbow	Carbon steel	STPG, SS41
Shaft	Carbon steel	S35C
Shaft enclosing tube	-	-
Bearing	Phenol resin & Stianless steel	- & SUS304
Suction strainer	Stainless steel	SUS 304

* as per spec

Motor

The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

Anode plate ~~Yes~~ / No *

		(for L.W.L.)	(for L.L.W.L.)
Weight			
Pump	(kg) approx.	3100	3600
Motor	(kg) approx.	500	500
Assembly	(kg) approx.	3600	4100

(2) Discharge valve and check valve **

Type	DISCHARGE BUTTERFLY	CHECK SWING
Manufacturer	KURIMOTO LTD OR SEE NOTE	
Number	4	4
Size (mm)	300	300
Material	CAST IRON	CAST IRON

NOTE
1) KUBOTA,LTD
2) TOMOE VALVE CO.,LTD
3) SNOWA VALVE CO.,LTD

* 11th Issue-12
** 11th Issue-13

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	500 550

(3) Expansion joint of pump discharge

Type		RUBBER
Number		4
Size	(mm)	300 ∓
Material		RUBBER & CARBON STEEL

(4) Bar screen

Type		Grid Type *
Manufacturer		KSEW or NATIONAL CONSTRUCTION
Number		1
Screen		
Guide channel section number		14
Guide channel number		14
Bar		
Pitch of bar	(m)	0.1
Number		Approx. 1,500 *
Width	(mm)	4000
Thickness	(mm)	100

(5) Material

Bar	SS41
Guide channel	SS41

* 9th Issue- 3

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(6) Painting material

Screen	TAR-EPOXY
Guide channel, etc.	TAR-EPOXY

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.2 WATER PRETREATMENT SYSTEM

Quality of treated water at outlet of coagulation sedimentation tank	
PH	≒ 6.0 ~ 8.5
Turbidity	-
Suspended solid	≒ < 10 ppm average
Iron	-
Treated capacity	≒ 960 max. m^3/h
Quality of treated water at outlet of filter equipment	
PH	≒ 6.0 ~ 8.5
Suspended solid	≒ < 1 ppm average

(1) Intake water receiving tank

(a) Coagulation-sedimentation tank transfer pump

Type		Vertical, centrifugal
Manufacturer		KUBOTA or YOSHIKURA or ERARA or KSB PAKISTAN
Number		Six (6)
Capacity	(m^3/H)	590
Discharge head	(m)	15
NPSH	(m)	4.5
Speed	(rpm)	1,485
Shaft horsepover	(KW)	34/Rated 37
Connection size		
Suction	(mm)	-
Discharge	(mm)	300

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material		
Casing		FC20
Shaft		SUS420J2
Impeller		FC25
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight		
Pump	(kg) approx.	1,500 9th Issue-1
Complete	(kg) approx.	1,800

(b) Sludge discharge pump

Type		Horizontal, Centrifugal
Manufacturer		~~KUBOTA or YOSHIKURA or EBARA~~ or KSB PAKISTAN
Number		Two (2)
Capacity	(m^3/H)	20
Discharge head	(m)	20
NPSH	(m)	2 9th Issue-1
Speed	(rpm)	1,455
Shaft horse power	(KW)	5.5
Connection size		
Suction	(mm)	65
Discharge	(mm)	50
Material		
Casing		CrFC
Shaft		S35C
Impeller		HCrFC

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight		
Pump	(kg) approx.	120
Complete	(kg) approx.	230
(c) Level indicator		
Type		Float type, Local mounted
Manufacturer		Sakura Soki
Number		Two (2)
(d) Painting		

(e) Piping		Material	Size
	Water	STPG#38	300,400A
	Sludge	STPG#38	65,50A

(2) Coagulation sedimentation tank equipment

(a) Driving unit		
Type		Center post type Reduction gear
Manufacturer		HANSHIN ENGINEERING or equivalent"
Number		Three (3)
Up flow rate	(m/H or less)	1.6
Material		
Rotor		SS41
Casing		FC20
Rake		SGP & SS41

9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Weight	(kg) approx.	45,000
(b)	Sludge pump		
	Number		Three (3)
	Type		Horizontal, centrifugal
	Capacity	(m^3/H)	20
	Discharge head	(m)	20
	NPSH	(m)	2
	Speed	(rpm)	1,455
	Shaft horse power	(KW)	11
	Connection size		
	Suction	(mm)	65
	Discharge	(mm)	50
	Material		
	Casing		CrFC
	Shaft		S35C
	Impeller		HCrFC
	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.
	Weight		
	Pump	(kg) approx.	120
	Complete	(kg) approx.	230

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(c) Piping

	Material	Size
Sludge discharge pipe	SUS 304 ~~STPG#38~~ *	65, 50A
Service water pipe	STPG#38	250, 450A
Chemical injection pipe	STPG#38 (PEL)	25A
Other	STPG#38	20A

* 9th Issue-4

(d) Painting

(3) Clarified water storage tank

Type		Semi Under Ground Reinforced concrete
Capacity		3,000 m^3

(a) Cooling tower make up pump

Type		Vertical, centrifugal
Manufacturer		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number		Two (2)
Capacity	(m^3/H)	763
Discharge head	(m)	~~30~~ 60 mAq /11th Issue-18
NPSH	(m)	8
Speed	(rpm)	1,490
Shaft horse power	(KW)	93/Rated 110
Connection size		
Suction	(mm)	—
Discharge	(mm)	300A
Material		
Casing		FC20
Shaft		SUS420J2
Impeller		FC20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor			The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight			
Pump	(kg)	approx.	1,900 9th Issue-1
Complete	(kg)	approx.	2,400
(b) Filter equipment transfer pump			
Type			Vertical, centrifugal
Manufacturer			~~KUBOTA or YOSHIKURA or EBARA~~ or KSB PAKISTAN
Number			Two (2)
Capacity	(m^3/H)		193
Discharge head	(m)		20
NPSH	(m)		3
Speed	(rpm)		1,470
Shaft horse power	(KW)		17/Rated 22
Connection size			
Suction	(mm)		—
Discharge	(mm)		250
Material			
Casing			FC20
Shaft			SUS420J2
Impeller			FC20
Motor			The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight

Pump	(kg) approx.	1,150
Complete	(kg) approx.	1,400

9th Issue-1

(c) Piping

	Material	Size
Cooling tower make up pump - Cooling tower	STPG#38	300A
	STPG#38	250A
Filter equipment transfer pump - Filter equipment		

(d) Painting: Yes

(e) Level control /Level switch: Differential press type

Type: / Float type

Manufacturer: YEW/SAKURA SOKI

Number: Two (2)/Two (2)

(4) Filter equipment

(a) Filter

Type: Vertical, cylindrical

Manufacturer: EBARA INFILCO or SHINKO-PFAUDLER

Number: Three (3)

Capacity (m^3/H): 97

Filters: Sand & Anthracite

Filtration rate (m/H): 6.4

Washing rate by back-washing (m/H): 39

Cleaning rate by air scrubbing (m^3/m^2/H): 70

Net washing and cleaning time per once: Approx. 45 min

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material and lining		SS41
Diameter	(mmϕ)	4,400
Height	(mm)	3,050
Weight	(kg) approx.	80,000
(b) Air scrubbing blower		
Type		Root
Number		Two (2)
Capacity	(m^3/H)	1,080
Exhaust pressure	(mmHg)	3,800
Speed	(rpm)	1,200
Noise	(dB)	88
Material		
Casing		FC25
Shaft		S45C
Blade		FC30
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
(c) Painting		Yes

(d) Piping

	Material	Size
SERVICE	STPG#38	125A
BACK WASH	STPG#38	300A
AIR	STPG (Zn)	150A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5)	Treated water storage tank		Semi Under Ground
	Type		Reinforced concrete
	Capacity		1,000 m^3
(a)	Filter backwashing pump		
	Type		Horizontal, centrifugal
	Manufacture		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
	Number		Two (2)
	Capacity	(m^3/H)	600
	Discharge head	(m)	15
	NPSH	(m)	3
	Speed	(rpm)	1,450
	Shaft horse power	(KW)	/Rated 55
	Connection size		
	Suction	(mm)	250
	Discharge	(mm)	250
	Material		
	Casing		FC25
	Shaft		S35C
	Impeller		FC20
	Motor		The Tenderer shall indicate motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.
	Weight		
	Pump	(kg) approx.	700
	Complete	(kg) approx.	1,200

9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Drinking water feed pump

Type		Horizontal, centrifugal
Manufacturer		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number		Two (2)
Capacity	(m^3/H)	170
Discharge head	(m)	30
NPSH	(m)	3
Speed	(rpm)	1,450
Shaft horse power	(KW)	/Rated 30
Connection size		
Suction	(mm)	150
Discharge	(mm)	100
Material		
Casing		FC25
Shaft		S35C
Impeller		FC20
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight		
Pump	(kg) approx.	350
Complete	(kg) approx.	650

(c) Treated water transfer pump

Type	Horizontal, centrifugal
Manufacturer	KUBOTA or YOSHIKURA or EBARA KSB PAKISTAN
Number	Two (2)

9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Capacity	(m^3/H)	~~25~~ 150	9th Issue-5
Discharge head	(m)	30	14th Issue-C.1
NPSH	(m)	3	9th Issue-1
Speed	(rpm)	2,900	
Shaft horse power	(KW)	/Rated 5.5	
Connection size			
Suction	(mm)	50	
Discharge	(mm)	40	
Material			
Casing		FC25	
Shaft		S35C	
Impeller		FC20	
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.	
Weight			
Pump	(kg) approx.	100	
Complete	(kg) approx.	200	

(d) Level control

Type	Float type local mounted
Manufacturer	SAKURA SOKI
Number	One (1)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(e) Painting

(f) Piping

	Material	Size
Treated water transfer pump - Service water tank	STPG#38	65A
Filter back washing pump - Filter equipment	STPG#38	300A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(6) Chemical storage and injection equipment

(a) Chemical storage tank

		NaOH	~~HCl (if required)~~
Type		Vertical, cylindrical	
Number		One (1)	
Capacity	(m^3)	5.0	
Dimension	(mm)	1,900 x 2,280H	
Material		SS41	
Lining		Epoxy coating (300 u)	
Weight	(kg)	1,400	

(b) HCl gas seal tank (if required)

Type		Not Required
Manufacturer		
Number		
Capacity	(m^3)	
Diameter	(mmϕ)	
Height	(mm)	
Material and lining		

(c) HCl unloading pump (if required)

Type		
Manufacturer		
Capacity	(m^3/H)	
Head	(m)	
Speed	(rpm)	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material		
Casing		
Shaft		
Impeller		
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg)	
(d) NaOH unloading pump		
Type		Horizontal, centrifugal
Manufacturer		EBARA INFLICO or SHINKO-PFAUDLER
Capacity	(m^3/H)	10
Head	(m)	10
Speed	(rpm)	1,450
Material		
Casing		FC25
Shaft		S35C
Impeller		FC20
Motor 1.5kw		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg)	120
(e) ~~Dial HCl tank (if required)~~ Coagulant dissolving tank		
Type		Reinforced concrete
Manufacture		EBARA INFILCO or ~~SHINKO-PFAUDLER~~
Number		One (1)

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Tenderer's Data Sheet

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(Tenderer's Name)

Capacity	(m^3)	40
~~Diameter~~ Dimmension	(mm)	4,000W x 4000L
Height	(mm)	3,000
Material and lining		Epoxy cementing
Weight	(kg) approx.	-

(f) ~~D: HCl dosing pump (if required)~~
Coagulant transfer pump

Type		Horizontal, diaphragm
Capacity	(l/H)	500
Manufacturer		Oyalox, Nippon Feeder or equivalent *
Number		Two (2)
Head	(m)	30
Motor	0.75kw	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V Tenderer's Data Sheet.
Material and lining		SCS14
Weight	(kg) approx.	300

(g) ~~Dil HCl~~ tank agitator ~~(if required)~~
Coagulation dissolving

Type	Paddle type
Manufacturer	Ebara Infilco or Shinko-Phaudler *
Number	One (1)
Material and lining	
~~Rotor~~ Shaft	SS41 & Rubber
Casing	FC20 *
Agitating propeller	SS41 & Rubber

* 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor	7.5 kW		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	120	*
(h) ~~Dil HCl tank~~ level control ~~(if required)~~ Coagulant dissolving level control			
Type		~~Float type level switch~~	
Manufacturer		SAKURA SOKI	
Number		One (1)	
(i) Dil NaOH tank			
Type		Vertical, cylindrical	
Manufacturer		EBARA INFILCO or SHINKO-PFAUDLER	
Number		One (1)	
Capacity	(m^3)	10	
Diameter	(mmϕ)	2,400	
Height	(mm)	3,050	
Material and lining		SS41 & Epoxy (300μ)	
Weight	(kg) approx.	2,700	
(j) Dil NaOH dosing pump			
Type		Horizontal, diaphragm	
Capacity	(l/H)	100	
Manufacturer		Oyalox, Nippon Feeder or equivalent *	
Number		Two (2)	
Head	(m)	30	
Motor	0.4kW		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material and lining		SCS13
Weight	(kg) approx.	120
(k) Dil NaOH tank agitator		
Type		Paddle
Manufacturer		Ebara Infilco, Shinko Phaudler 9th Issue-1
Number		One (1)
Material and lining		
Rotor		~~SS41~~ SUS 304 15th Issue-28
Casing		FC20 9th Issue-1
Agitating propeller		~~SS41~~ SUS 304 15th Issue-28
Motor	2.2 kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	100
(l) Dil NaOH tank level control		
Type		Float type level switch
Manufacturer		SAKURA SOKI
Number		One (1)
(m) Coagulant tank		
Type		Horizontal, cylindrical
Manufacturer		EBARA INFILCO or SHINKO-PFAUDLER
Number		One (1)
Capacity	(m^3)	80
Diameter	(mmϕ)	3,100
Height	(mm)	10,500
Material and lining		SS41 & Rubber (5 mm)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight	(kg) approx.	12,000
(n) Coagulant dosing pump		
Type		Horizontal, diaphragm
Capacity	(l/H)	200
Manufacturer		Oyalox, Nippon Feeder or equivalent 9th Issue-1
Number		Two (2)
Head	(m)	30
Motor	0.75 kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Material and lining		SCS14
Weight	(kg) approx.	250
(o) Coagulant tank level control		
Type		Float type level switch
Manufacturer		SAKURA SOKI
Number		Two (2)
(p) Coagulant aid tank		
Type		Vertical, cylindrical
Manufacturer		EBARA INFILCO or SHINKO-PFAUDLER
Number		One (1)
Capacity	(m^3)	18
Diameter	(mmϕ)	2,900
Height	(mm)	3,050
Material and lining		SS41 & Epoxy (300 μ)
Weight	(kg) approx.	3,600

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(q) Coagulant aid dosing pump

Type		Horizontal, diaphragm
Capacity	(l/H)	100
Manufacturer		Oyalox, Nippon Feeder or equivalent 9th Issue-1
Number		Two (2)
Head	(m)	20
Motor	0.4 kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Material and lining		SCS13
Weight	(kg) approx.	120

(r) Coagulant aid tank agitator

Type		Paddle
Manufacturer		Ebara Infilco or Shinko Phaudler 9th Issue-1
Number		One (1)
Material and lining		
Rotor		SUS304
Casing		N.A.
Agitating propeller		SUS304
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	150

(s) Coagulant aid tank level control

Type		Float type level switch
Manufacturer		SAKURA SOKI

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Number		
(t)	Conc HCl transfer pump (if required)		
	Type		
	Capacity	(m^3/H)	
	Manufacturer		
	Number		
	Head	(m)	Not Required
	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Material and lining		
	Weight	(kg) approx.	
(u)	Conc NaOH transfer pump		
	Type		Horizontal, centrifugal
	Capacity	(m^3/H)	10
	Manufacturer		Yoshikura Kogyo, Kubota, Ebara or equivalent *
	Number		Two (2)
	Head	(m)	10
	Motor	1.5 kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.
	Material and lining		FC25/S35C/FC20
	Weight	(kg) approx.	120
(v)	Chemical storage yard pit pump		
	Type		Horizontal, centrifugal
	Capacity	(m^3/H)	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacture		Yoshikura Kogyo, Kubota, Ebara or equivalent *
Number		Two (2)
Head	(m)	10
Motor	1.5 kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Material and lining		FC25 with Rubber
Weight	(kg) approx.	120
(v) Painting		Acid and alkali proof *

(7) Control unit system

(a) pH meter

Type	Glass electrode
Manufacturer	
pH detector	YEW/DKK
pH indicator	YEW/DKK
pH recorder	YEW
Alarm setter	YEW
pH metering range and sense	PH= 4 - 12
pH detection spots.	Common header

(b) Flow integrating meter

Type	Orifice type
Manufacturer	
Flow detector	YEW
Flow indicator	YEW
Flow integrating meter	YEW

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Flow metering range and sens.	(m^3/H)	0 ~ 1,400
Flow detection spots.		Common header
(c) Control panel for water pretreatment equipment		
Type		Metal enclose free Standing outdoor
Manufacturer		
Height x Width x Depth (mm)		800 x 2,400 x 1,500 Approx.
Number		Two (2)
Weight	(kg) approx.	750
(d) Painting		Alkyd resin *
(8) Piping		
(a) Under ground pipe		
Pipe material		STPG38
Protection material for external surface		Asphalt
Protection material for internal surface		Painting or lining *
Size		50 - 300 mmø *
(b) On ground pipe		
Pipe material		STPG38
Protection material for external surface		Painting
Protection material for internal surface		Painting or lining *
Size		50 - 300 mmø

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(9) Handrail, walkway, ladder, grating and manhole cover and pit cover

Material	SS41
Total weight	Approx. 8000 kg

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NOOR QAYUM & COMPANY
1, Nursery Lane
Lawrence Road
LAHORE

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.3 SERVICE WATER TANK

(1)	Type		Vertical, cylindrical Cone-roof type
(2)	Manufacturer		EBARA INFILCO/ SHINKO-PFAUDLER or NIPPON RENSUI
(3)	Number		Two (2)
(4)	Capacity	(m^3)	± 1,500
(5)	Inside diameter	(mm)	13,570
(6)	Shell height	(mm)	10,640
(7)	Material and thickness		

	Material	Thickness (mm)
Water plate	SS41	9, 6, 4.5
Bottom plate	SS41	9
Roof plate	SS41	4.5
Air tight seal	NON	

(8)	Vertical number of course	7	*
(9)	Painting material		
	Inner surface	Epoxy resin (300μ)	
	External surface	Phenolated Alkyd resin (150μ	
(10)	Weight	(kg) approx.	51,000
(11)	Divided package number for shipping		Approx. 20 *
(12)	Piping		
	Main power house piping		SGP
	Technical building supply piping		SGP
	Administration building supply piping		SGP
	Intake water system		SGP
	Out door supply piping		SGP

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Others			SGP *
Total weight of piping		(ton) approx.	50
(13) Service water pump	Type		Horizontal, centrifugal
Manufacturer			KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number			Two (2)
Capacity		(m^3/H)	~~15~~ 150 9th Issue-6
Discharge head		(m)	50
NPSH		(m)	5 *
Speed		(rpm)	2,910
Shaft horse power		(KW)	4.2/Rated 5.5
Connection size			
Suction		(mm)	50
Discharge		(mm)	40
Material			
Casing			FC25
Shaft			S35C
Impeller			~~FC20~~ Bronze 15th Issue-26
Motor			The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.
Weight			
Pump		(kg) approx.	55
Complete		(kg) approx.	150
(14) Insulation material			Not Required

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(15) Painting material

Phenolated Alkyd resin *

Epoxy resin *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.4 WATER TREATMENT SYSTEM

(1) Water treatment equipment

Type		2 bed 3 tower with polisher
Manufacturer		EBARA INFILCO, SHINKO-PFAUDLER or NIPPON RENSUI *
Number		Two (2) trains
Capacity	(ton/H)	≒ Max 25
Quality of treated water		
Conductivity (at 25°C)	(us/cm)	≒ 0.5
Dissolved oxygen	(ppm)	0.3
Silica	(ppm)	≒ 0.015
L.V (Linear velocity)	(m/sec)	0.006
Chemical consumption for regeneration		2B3T / Polisher
HCL	(kg)	350 / 165
NaOH	(kg)	195 / 115
Steam consumption for regeneration (kg/H)		Max 100 / max 80
Operation hour per one cycle		
Service	(H)	20 / 165
Regeneration	(H)	4 / 3
Regeneration waste water		
Quantity per cycle (m^3)		35 / 10
pH		10 ~ 12 / 9 ~ 10

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(a) Water treatment supply pump

Type	Horizontal, centrifugal
Manufacturer	KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		Two (2)
Capacity	(m^3/H)	25
Discharge head	(m)	40
Speed	(rpm)	2,900
Shaft horse power	(KW)	Rated 5.5
Connection size		
Suction	(mm)	50
Discharge	(mm)	40
Material		
Casing		FC25
Shaft		S35C
Impeller		FC20
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight		
Pump	(kg) approx.	100
Complete	(kg) approx.	200

(b) Regeneration water pump

		Horizontal, centrifugal
Manufacturer		KUBOTA or YOSHIKURA or EBARA ~~or KSB PAKISTAN~~
Number		~~Two (2)~~
Capacity	(m^3/H)	12
Discharge head	(m)	40
NPSH	(m)	5
Speed	(rpm)	2,900
Shaft horse power	(KW)	/Rated 5.5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Connection size			
Suction	(mm)		40
Discharge	(mm)		25
Material			
Casing			SCS13
Shaft			SUS304
Impeller			SCS13
Motor			The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight			
Pump	(kg)	approx.	100
Complete	(kg)	approx.	200
(c) Booster pump			
Manufacturer			Horizontal, centrifugal KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number			Two (2)
Capacity	(m^3/H)		25
Discharge head	(m)		40
NPSH	(m)		5
Speed	(rpm)		2,900
Shaft horse power	(KW)		/Rated 7.5
Connection size			
Suction	(mm)		50
Discharge	(mm)		40

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material		
Casing		SCS14
Shaft		SUS316
Impeller		SCS14
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight		
Pump	(kg) approx.	100
Complete	(kg) approx.	200
(d) Cation tover		
Type		Vertical, cylindrical
Number		Two (2)
Manufacturer		EBARA INFILCO, SHINKO-PFAUDLER or NIPPON RENSUI
Size		1,200ϕ x 3,300SH*
Resin name and quantity		CNP80 1300 l/S100 700 l *
Effective height of resin	(mm)	620 / 1,150
Design pressure	(kg/cm^2G)	5.0
L.V (Linner velocity)	(m/h)	22.2
S.V (Space velocity)	(h^{-1})	12.5
Material		
Distributor		SUS304/SUS316
Collector	Perforated dish;	SS41 & Rubber
	Header Pipe;	SUS316
Tover		
Lining		SS41 + Rubber (5 mm)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight		
Empty	(kg) approx.	3,000
Complete	(kg) approx.	7,000
(e) Anion tover		
Type		Vertical, cylindrical
Number		Two (2)
Manufacturer		EBARA INFILCO, SHINKO-PFAUDLER or NIPPON RENSUI
Size	(mm)	1300$^{\phi}$ x 3,300SH
Resin name and quantity		MP64 1300 l/M600 900 l *
Effective height of resin	(mm)	985/680
Design pressure	(kg/cm^2G)	5.0
L.V (Linner velocity)	(m/n)	19
S.V (Space velocity)	(h^{-1})	11.4
Material		
Distributor		SUS304
Collector	Perforated dish;	SS41 & Rubber
Tover	Header pipe;	SUS304
Lining		SS41 & rubber (5 mm)
Weight		
Empty	(kg) approx.	3,200
Complete	(kg) approx.	8,000
(f) Mix-bed tover		
Type		Vertical, cylindrical
Number		Two (2)
Manufacturer		EBARA INFLICO or SHINKO-PFAUDLER
Size	(mm)	1,000$^{\phi}$ x 3,000SH

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name) 9th Issue-9

Resin name and quantity		S100HB 450 l/M500MB 600 l
Effective height of resin	(mm)	570/765
Design pressure	(kg/cm^2G)	5.0
L.V (Linner velocity)	(m/n)	31.8
S.V (Space velocity)	(h^{-1})	23.8
Material		
Distributor		SUS304
Collector	Perforated sish;	SS41 & rubber
	Header pipe;	SUS316
Tover		
Lining		SS41 & Rubber (5 mm)
Weight		
Empty	(kg)	2,200
Complete	(kg)	5,200

(g) Vacuum degassing tover

Type		Vertical, cylindrical
Number		Two (2)
Manufacturer		EBARA INFILCO, SHINKO-PFAUDLER or NIPPON RENSUI
Capacity		Max 25 m^3/h
Material		Specification
	TOWER	SS41 & Rubber (5 mm)
	DISTRIBUTOR	PBC
	PACKING	Polypropylene
Weight		
Empty	(kg)	1,400
Complete	(kg)	5,500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(h) Vacuum generation equipment

Type	Vacuum pump
Number	Two (2)
Manufacturer	Fuji Electric or Ebara
Operating vacuum /cap	20 mm Hg/120 m^3/min

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(i) Chemical storage tank

		NaOH	HCl
Type		Horizontal, cylindrical	Horizontal, cylindrical
Number		One (1)	Two (2)
Capacity	(m^3)	20	25
Dimension	(mm)	2,400 x4,600SL	2,400 x6,000SL
Material		SS41	SS41
Lining		Dpoxy(300μ)	Rubber(4 mm)
Weight	(kg)	3,000	3,800

(j) HCl gas seal tank

Type		Vertical, cylindrical
Manufacturer		EBARA INFILCO, SHINKO-PFAUDLER or NIPPON RENSUI
Number		ONE (1)
Capacity	(m^3)	0.12
Diameter	(mmϕ)	400
Height	(mm)	1,000
Material and lining		PVC
Weight	(kg) approx.	50

(k) Chemical measuring tank

	NaOH	HCl
Type	Vertical, cylindrical	Vertical, cylindrical
Number	Two(2)/Two(2)	Two(2)/Two(2) #

#Cation, Anion Ex./MB Polisher

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		NaOH	HCl
Capacity	(l)	500/250	500/250 #
Dimension	(mm)	950 x1,220SH /850 x760SH	950 x 1,220SH /850 x 760SH #
Lining		Epoxy (300)	Rubber (5 mm)
Weight	(kg)	500/300	500/300 #

(1) NaOH unloading pump

Type		Horizontal, centrifugal
Manufacturer		Yoshikura Kogyo, Kubota, Ebara or equivalent *
Capacity	(m^3/H)	10
Head	(m)	10
Speed	(rpm)	1,450
Material		
Casing		FC25
Shaft		S35C
Impeller		FC20
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

(2) Sodium sulfite injection pump

Type		Horizontal, diaphragm
Manufacturer		Oyalox, Nippon Feeder or equivalent *
Capacity	($\frac{m^3}{l}$/H)	~~3.0~~ 30 9th Issue-10
Number		Two (2)
Delivery head	(m)	20

Cation, Anion Ex./MB Polisher

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Material		
~~Casing~~	HEAD	SCS13
~~Impeller~~	DIAPHRAGM	TEFLON or equivalent
~~Conical sleeve~~	BALL	HASTELOY-C or equivalent
Sealing method		Diaphragm *
Weight	(kg) approx.	100

(n) Sodium sulfite storage tank

Type		Vertical, cylindrical
Manufacturer		~~EBARA INFILCO or~~ SHINKO-PFAUDLER
Number		One (1)
Capacity	(m^3)	0.2
Dimension	(mm)	850ϕ x 760SH
Material		SS41
Weight	(kg)	350

(o) Sodium sulfite tank agitator

Type		Paddle type
Manufacturer		Ebara Infilco or Shinko Phaudler *
Number		One (1)
Material		
~~Rotor~~ Shaft		~~SS41~~ SUS304
~~Casing~~		
Agitating propeller		~~SS41~~ SUS304

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Weight	(kg) approx.	30
(p)	HCl unloading pump		
	Type		Horizontal, centrifugal
	Manufacturer		Yoshikura Kogyo, Kubota, Ebara or equivalent *
	Capacity	(m^3/H)	10
	Head	(m)	10
	Speed	(rpm)	1,440
	Material		
	Casing		FC25 with Rubber coated
	Shaft		SUS304
	Impeller		FC25 with Rubber coated
	Motor	1.5 kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Weight	(kg)	120
(q)	NaOH recirculating pump		
	Type		Horizontal, centrifugal
	Manufacturer		Yoshikura Kogyo, Kubota, Ebara or equivalent *
	Capacity	(m^3/H)	10
	Head	(m)	10
	Speed	(rpm)	1,450

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material			
Casing			FC25
Shaft			S35C
Impeller			FC20
Motor		1.5kW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight		(kg)	120
(r) Instrument air receiver			
Type			Vertical, cylindrical
Number			One (1)
Capacity		(m^3)	0.5
Dimension		(mm)	600Ø X 2,000SH
Material			SS41
Weight		(kg) approx.	200
(s) Mix air blower			
Type			Root type
Number			Two (2)
Capacity		(m^3/H)	120
Exhaust pressure		(mmHg)	3,800
Speed		(rpm)	1,580
Noise		(dB)	75
Material			
Casing			FC25
Shaft			S45C
Blade			FC30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Motor 5.5 kW

The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.

Weigh (kg) 200

(t) pH meter

(i) Detector

Manufacturer	YEW/DKK
Type	Glass electrode
Number	~~One (1)~~ Two (2) ✓ *
Measuring range	0 to 14 pH
Accuracy	± 0.01 pH
Accessories	
Reference electrodes	1
Combination pH electrodes	1

(ii) Recorder

Manufacturer	YEW
Type	Miniature
Number	~~One (1)~~ Two (2) ✓ *
Range	0 to 14 pH
Accuracy	I 0.5%

(u) Silica meter

(i) Detector

Manufacturer	HORIBA/NIKKISO
Type	Optical colorimetric
Number	One (1)
Measuring range	0~0.05/0~0.5 ppm
Accuracy	± 5 %

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(ii) Recorder		
Manufacturer		YEW
Type		Miniature type
Number.		Two (2) pH/SiO_2
Measuring range		0 ~ 100%
Accuracy		±0.5% for Full Scale
(2) Waste water pit		
(a) Waste water discharge pump		
Type		Horizontal, centrifugal
Manufacturer		~~KUBOTA or YOSHIKURA or~~ EBARA or KSB PAKISTAN
Number		Two (2)
Capacity	(m^3/H)	~~10~~ 45
Head	(m)	30
Speed	(rpm)	2,910
Shaft length	(mm)	-
Connection size	(mm)	40/25
Material		
Shaft		SUS316
Impeller		SCS14
Casing		SCS14
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight complete	(kg)	120

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Mix air blower

Type		Root type
Number		Two (2)
Capacity	(m^3/H)	120
Exhaust pressure	(mmHg)	2,400
Speed	(rpm)	1,450
Noise	(dB)	70
Motor	(kW)	3.7
Material		
Casing		FC25
Shaft		S45C
Blade		FC30

(3) Control panel

Type		Metal enclosed, free standing
Manufacturer		EBARA INFILCO or SHINKO-PFANDLER
Number		Two (2)
Dimension	(mm)	1,500 x 2,400 x 1,500
Weight	(kg)	1,000

(4) Piping

	Material	Size
Supply pump - Demineralizer inlet	STPG#38	65A
Mixbed polisher - Demineralized water tanks	SUS304	65A
Chemical piping	SUS304	25A
Lining piping	STPG(PEL)	65/25A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Vaste vater pit air bubbling piping	PVC	50A
	Vaste vater pit pump - Vaste vater storage pond	STPG(PEL)	40A
(5)	Painting material	ALKALl & ACID PROOF	
(6)	Total veight of vaste vater pit (kg)	approx. 2500 tons* ~~Informed later~~	
(7)	Divided package number for shipping	Refer to attached packing list	
		Material	Size
(8)	Total veight of vater treatment equipment	Refer to attached packing list* ~~Informed later~~	
(9)	Divided package number for shipping	Refer to attached packing list	
(20)	Ladder, handrail, valkvay grating manhoel cover, and pit cover		
	Material	Carbon steel	
	Total veight	~~Informed later~~ approx. 15,000kg	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.5 DEMINERALIZED WATER TANK

(1)	Type		Airtight type Vertical, cylindrical
(2)	Manufacturer		~~EBARAINFILCO CO~~ SHINKO-PFAUDLER
(3)	Number		Two (2)
(4)	Capacity	(m^3)	± 1,000
(5)	Inside diameter	(mm)	11,620
(6)	Shell height	(mm)	10,660
(7)	Material and thickness		Material / Thickness (mm)
	Wall plate		SS41 / 9, 6, 4.5
	Bottom plate		SS41 / 9
	Roof plate		SS41 / 4.5
	Floating deck		SS41 / 4.5
	Air tight seal		NBR / 1
(8)	Vertical number of course		7
(9)	Painting material		
	Inner surface		Epoxy resin (300 μ)
	External surface		Phenol alkyd resin (150 μ)
(10)	Weight	(kg) approx.	36,000
(11)	Divided package number for shipping		Refer to attached packing list
(12)	Piping		Material / Size
	Demineralized water tank - Demineralized transfer pump		SUS304 / 100/50A
	Demineralized transfer pump - Make up water tank		SUS304 / 50A
	For water analysis room		SUS304 / 50A
	For technical building		SUS304 / 50A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(13)	Demineralized water transfer pump		Horizontal, centrifugal
	Manufacturer		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
	Number		Two (2)
	Capacity	(m^3/H)	~~25~~ 120 9th Issue-13 14th Issue-C.2
	Discharge head	(m)	40
	NPSH	(m)	5 *
	Speed	(rpm)	2,920
	Shaft horse power	(KW)	4.9/Rated 7.5
	Connection size		
	Suction	(mm)	50
	Discharge	(mm)	40
	Material		
	Casing		SCS13
	Shaft		SUS304
	Impeller		SCS13
	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Weight		
	Pump	(kg) approx.	100
	Complete	(kg) approx.	200
(14)	Insulation material		No Required
(15)	Painting material		Alkyd resin, Epoxy resin *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

4. FIRE PROTECTION SYSTEM

(1) Fresh water extinguishing equipment

(a) Emergency fresh water fire pump		Motor driven	Diesel driven
Type		CENTRIFUGAL	CENTRIFUGAL
Manufacturer		EBARA or KUBOTA	EBARA or KUBOTA
Number		1	1
Capacity	(m^3/H)	760	760
Discharge pressure	(kg/cm^2g)	9	9
Speed	(rpm)	1500	1500
Shaft horse power	(KW)	230	230
Material			
Casing		FC25	FC25
Shaft		S35C	S35C
Impeller		BC6	BC6
Engine			
Type			DIESEL
Manufacturer			MITSUBISHI, FUJI ELECTRIC or YAMMER
Number			1
Horse power	(PS)		490
Starting method of the engine			ELECTRIC STARTING
Weight			
Complete weight	(t)	3.47	7.1
(b) Fire water pump			
Type		Volute	

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MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		EBARA or KUBOTA
Number		2
Capacity	(m^3/H)	30
Discharge pressure	(kg/cm^2g)	8
Speed	(rpm)	1,450
Shaft horse power	(KW)	10.5
Material		
Casing		FC20
Shaft		S35C
Impeller		BC6
Complete weight	(kg/each)	374

(c) Hydrant

	TUBE, ROOM ADMI, BUILD WAREHOUSE & WORKSHOP	~~TURB. ROOM & ADMI. BUILD~~	BLR. room	Outdoor
Type		Wall ~~Mounting~~	Wall Mounting	Standing
Manufacture		NOHMI or NIPPON DRY CHEMICAL		
Number		29	7	30
Hose connection	(mm)	40	40	65

Add. 1-1

(2) Air foam extinguishing equipment

(a) Air foam concentrate tank

Type		Vertical
Manufacturer		NOHMI or NIPPON DRY CEEMICAL
Number		1
Capacity	(m^3)	6

(b) Air foam concentrate injection pump

Type		GEAR
Manufacturer		DAITO KOGYO or EBARA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		1
Capacity	(kl/H)	12
Discharge pressure	(kg/cm^2g)	10
Engine		
Type		DIESEL
Manufacturer		NISSAN, FUJI ELECTRIC or YANMER
Number		1
Horse power	PS (~~PH~~)	18
Complete weight	(kg)	350

(c) Air foam hydrant

Type		OUTDOOR STANDING
Manufacturer		NOHMI or NIPPON DRY CHEMICAL
Number		19
Hose connection	(mm)	65

(d) Fire fighting truck

Type		1
Manufacturer		NIHON KIKAI or NIPPON DRY CHEMICAL
Diesel engine horse power	(PS)	275
Water tank capacity	(m^3)	4
Foam concentrate tank capacity	(m^3)	2
Pressure and water flow at the nozzle	(kg/cm^2 x l/min)	10.5 x 1893 ~~3 x 400~~ 9th Issue-14

(3) Dry chemical extinguishing equipment

Type		SPHERICAL CYLINDER REVOLUTION TYPE

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MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		NOHMI or NIPPON DRY CHEMICAL
Number		1
Chemical storage capacity	(kg)	2,000 kg
Delivery ratio	(kg/sec)	51 ~~40.8~~ kg/sec. 9th Issue-15

(4) Fire alarm system

(a) Fire detecting equipment

	Automatic	Push button
Type	THERMOSTAT	MANUAL PUSHBUTTON
Manufacturer	NOHMI or NIPPON DRY CHEMICAL	
Number of alarm point	4	~~39~~ 48 9th Issue-16

(b) Fire protection panel

Type	INDOOR SELF-STANDING LAMP
Manufacturer	NOHMI or NIPPON DRY CHEMICAL
Number	1
Dimension W x L x H (mm)	1,200 x 600 x 2,350

(5) Portable fire extinguishing equipment

	Hand carry	Wheel carry
Type	BC DRY CHEMICAL	BC DRY CHEMICAL
Manufacturer	YAMATO or NIPPON DRY CHEMICAL	
Number	54	2
Each capacity (kg)	8	48

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

5. FUEL OIL SYSTEM

5.1 FUEL OIL UNLOADING AND RECEIVING SYSTEM

5.1.1 RESIDUAL OIL UNLOADING FACILITIES

(1) Unloading arm or flexible hose

Connecting device between tank vagon and receiving header (unloading arm or flexible hose)	FLEXIBLE HOSE
Material of the connecting device	JIS SUS304
Number of the connecting device	~~70~~ 60 *
Name and size of coupler at a tank vagon connection	QUICK COUPLER 2 1/2B

(2) Steam and drain headers

Steam header size dia. x length (mm) x (m)	250 x ~~700~~ approx.250 *
Drain header size dia. x length (mm) x (m)	50 x ~~700~~ approx.250 *
Material and size of flexible hose connecting steam header and tank vagon	SUS304 1 1/2B
Material and size of flexible hose connecting drain header and tank vagon	SUS304 3/4B
Number of flexible hose for steam	~~70~~ 60 *
Number of flexible hose for drain	~~70~~ 60 *

5.1.2 RESIDUAL OIL RECEIVING FACILITIES

(1) Receiving header

Header size dia. x length (mm) x (m)	N.D. 200~350 x ~~700~~ approx.250 (TOTAL) *
Number of receiving connections	~~70~~ 60 *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Diameter of connection	(mm)	65
(2) Air separator		
Type		CYLINDRICAL WELDED STEEL STRUCTURE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		4
Design flow	(Kl/H)) (Max.)	60
Volume	(m^3)	12.27
(3) Strainer		
Type		AIR MOTORIZED, SIMPLEX STRAINER WITH MANUAL DEVICE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		4
Design flow	(Kl/H) (Max.)	60
Connection size		8B
Screen material and mesh		SUS304 60 MESH
Effective screen area per sectional area of the pipe connection		4
(4) Residual oil receiving pump		
Type and Model No.		GEAR TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		4
Capacity each	(Kl/H)	60
Suction pressure	(kg/cm^2)	- 0.47
Discharge pressure	(kg/cm^2)	4.5 (3.5kg/cm^2G)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

5.1.3 HSD OIL RECEIVING FACILITIES

(1) Flexible hose

Diameter (mm) x length (m)		65 x 5
Material of the flexible hose		SUS304
Diameter of connection		65 mm

(2) HSD oil receiving pump

Type		GEAR TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110.
Number		1
Capacity	(Kl/H)	15
Suction pressure	(m)	- 5
Discharge pressure	(kg/cm^2g)	2.5

5.1.4 OIL DRAIN

(1) Oil drain collecting tank

Type		CUBIC WELDED STEEL STRUCTURE
Number		1
Capacity	(m^3)	2.2
Thickness of tank plate	(mm)	4.5

(2) Oil drain pump

Type and Model No.		GEAR TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		1
Capacity	(Kl/H)	3
Suction head	(m)	- 5
Discharge pressure	(kg/cm^2)	4 (3 Kg/cm^2G)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(3) Strainer

Type		DUPLEX
Number		1
Connection size	(mm)	80
Screen material and mesh		SUS304 60 MESH

5.2 RESIDUAL OIL TRANSFER SYSTEM

5.2.1 RESIDUAL OIL SUCTION HEATER

Type		SHELL & TUBE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Heating surface	(m^2)	33
Oil flow	(kg/H)	53,580
Steam flow	(kg/H)	1,400
Steam pressure	(kg/cm^2g)	3.0
Inlet oil temperature	(^oC)	25
Outlet oil temperature	(^oC)	50
Heat transfer coefficient	($Kcal/m^2H^oC$)	204

5.2.2 RESIDUAL OIL TRANSFER PUMP

(1) Pump

Type		GEAR TYPE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Capacity	(kl/H)	57

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Discharge pressure	(kg/cm^2g)	4.0
Shaft horse power	(KW)	18.5
Speed	(rpm)	750
Shaft seal method		MECHANICAL SEAL

(2) Accessories

(a) Strainer

Type		AIR MOTORIZED SIMPLEX STRAINER WITH MANUAL DEVICE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Connection size (mm)		N.D. 200
Screen material and mesh		JIS SUS304, 60 MESH
Effective screen area per sectional area of the pipe connection		4

(b) Pressure regulator

Type		AIR OPERATED GLOVE CONTROL VALVE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		1
Control range	(kg/cm^2g)	0 - 5

5.2.3 OIL SEPARATOR TRANSFER PUMP

Type		centrifugal
Manufacturer		Kosaka Laboratory or Equiv
Number	(set)	1
Capacity	(l/h)	8000
Suction head	(m)	~~-4~~ -4
Discharge head	(m)	~~15~~ 40

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

6. DRAINAGE AND WASTE WATER TREATMENT EQUIPMENT

Quality of treated water

pH ± 6.5 - 8.5

Treatment capacity ± 40 m^3/hr NOR

(1) Main power house machine drainage system

(a) Turbine room sump pump

Type		NO CLOGGING VERTICAL, CENTRIFUGAL
Capacity	(m^3/H)(mAg)	15 / 20
Manufacturer		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number		ONE (1)
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	250

(b) Condenser pit sump pump

Type		VERTICAL, SUBMERSIBLE
Capacity	(m^3/H)(mAg)	25 / 20
Manufacturer		KUBOTA or YOSHIKURA or ~~EBARA or KSB PAKISTAN~~
Number		~~TWO (2)~~
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	200

(c) Turbine oil sump pit pump

Type	NO CLOGGING VERTICAL, CENTRIFUGAL

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Capacity	(m^3/H) (mAq)	15 / 20
Manufacturer		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number		ONE (1)
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V Tenderer's Data Sheet.
Weight	(kg) approx.	250

(d) Level indicator for sump pit

Type	FLOAT TYPE LEVEL SWITCH
Manufacturer	SAKURA SOKI
Number	THREE (3)

(e) Painting — OIL-PROOF

(3) Unit drainage pit equipment

(a) Pump

Type		Horizontal, Centrifugal
Manufacturer		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number		FOUR (4)
Capacity	(m^3/H)	≒ 150
Head	(m)	15
Speed	(rpm)	1460
Shaft length	(mm)	1000
Connection size	(mm)	150 / 150
Material		
Shaft		SUS316

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Impeller	SCS 14
	Casing	SCS 14
	Motor	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.
	Weight complete (kg) approx.	350
(b)	Level indicator	
	Type	FLOAT TYPE LEVEL SWITCH
	Manufacturer	SAKURA SOKI
	Number	TWO (2)
(c)	Control panel	
	Type	METAL ENCLOSED WALL MOUNTED TYPE
	Height x width x depth (mm)	500 x 600 x 400
	Number	TWO (2)
	Weight (kg) approx.	100
(d)	Painting	OIL-PROOF
(4)	Waste water storage pond equipment	
(a)	Pump	
	Type	VERTICAL, CYLINDRICAL
	Manufacturer	KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
	Number	FOUR (4)
	Capacity (m^3/H)	40
	Head (m)	20
	Motor	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Material	SCS14 / SUS316

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight complete (kg) approx. 200

(b) Agitating blower

Type Roots

Manufacturer Ebara, Kubota or equivalent 9th Issue-1

Number Three (3)

Capacity (Nm^3/min) /(mmHg) 80/2400

Material

Rotor FC30

Casing FC25

Agitating air pipe PVC

Motor 75 KW The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V Tenderer's Data Sheet.

Weight (kg) approx. 3,000

(c) Level indicator

Type Float Type, Level Switch

Manufacturer SAKURA SOKI

Number ONE (1)

(d) Painting Oil-Proof

(5) Primary pH control pit

(a) pH control system

Type Glass Electrode, Sequence Control

Manufacturer YEW/DKK

Number One (1)

(b) Level control

Type Not Provided

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Manufacturer		
	Number		
(c)	Pit agitator		
	Type		PADDLE TYPE
	Manufacturer		Ebara Infilco or Shinko Phaudler *
	Number		ONE (1)
	Material		
	Shaft		SUS316
	Casing		FC20 *
	Agitating propeller		SUS316
	Motor	3.7 KW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
	Weight	(kg) approx.	120
(d)	Painting		ALKALI & ACID-PROOF
(6)	Final neutralizing pit equipment		
(a)	pH control system		
	Type		GLASS ELECTRODE SEQUENCE CONTROL
	Manufacturer		YEW/DKK
	Number		TWO (2)
(b)	Level control		
	Type		FLOAT TYPE, LEVEL SWITCH
	Manufacturer		SAKURA SOKI
	Number		ONE (1)
(c)	Pit pump		
	Type		VERTICAL, CYLINDRICAL

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Capacity	(m^3/H)	40
Manufacturer		Ebara, Kubota, Yoshikura Kogyo or equivalent *
Number		TWO (2)
Head	(m)	20
Motor	5.5 KW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	200

(d) Neutralizing pit agitator

Type		PADDLE TYPE
Manufacturer		Ebara Infilco or Shinko Phaudler *
Number		ONE (1)
Material		
~~Rotor~~ SHAFT		SUS304
Casing		FC20 *
Agitating propeller		SUS304
Motor	3.7 KW	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	120

(e) Painting — ALKALI & ACID-PROOF

(7) Chemical injection equipment

(a) NaOH unloading pump

Type		HOROZONTAL, CENTRIFUGAL
Manufacturer		Ebara, Kubota, Yoshikura Kogyo or equivalent *
Capacity	(m^3/H)	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Head	(m)	10
Speed	(rpm)	1450
Material		
Casing		FC25
Shaft		S35C
Impeller		FC20
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg)	120
(b) HCl unloading pump		
Type		~~HORIZONTAL, CENTRIFUGAL~~
Manufacturer		Ebara, Kubota, Yoshikura Kogyo or equivalent 9th Issue-1
Capacity	(m^3/H)	10
Head	(m)	10
Speed	(rpm)	1440
Material		
Casing		FC25 with RUBBER
Shaft		S35C
Impeller		FC25 with RUBBER
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg)	120
(c) Dil HCl tank		
Type		VERTICAL, CYLINDRICAL

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		EBARA INFILCO or SHINKO-PFAUDLER
Number		ONE (1)
Capacity	(m^3)	0.2
Diameter	(mmϕ)	850
Height	(mm)	760
Material and lining		SS41 with RUBBER
Weight	(kg) approx.	350

(d) HCl gas seal tank

Type		VERTICAL, CYLINDRICAL
Manufacturer		EBARA INFILCO or SHINKO-PFAUDLER
Number		ONE (1)
Capacity	(m^3)	0.12
Diameter	(mmϕ)	400
Height	(mm)	1000
Material and lining		PVC
Weight	(kg) approx.	50

(e) Dil HCl dosing pump

Type		HORIZONTAK, DIAPHRAGM
Capacity	(l/H)	3
Manufacturer		
Number		TWO (2)
Head	(m)	30
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Material and lining		PVC

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight	(kg) approx.	100
(f) Dil HCl tank agitator		
Type		PADDLE TYPE
Manufacturer		Ebara Infilco or Shinko Phaudler 9th Issue-1
Number		One (1)
Material and lining		
Rotor		SS41 with Rubber
Casing		FC20
Agitating propeller		SS41 with Rubber
Motor	0.4 kw	The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Weight	(kg) approx.	50
(g) Dil HCl tank level control		
Type		FLOAT TYPE LEVEL SWITCH
Manufacturer		SAKURA SOKI
Number		ONE (1)
(h) Dil NaOH tank		
Type		VERTICAL, CYLINDRICAL
Manufacturer		EBARA INFILCO or SHINKO-PFAUDLER
Number		ONE (1)
Capacity	(m^3)	~~0.2~~ 5 14th Issue-C.3
Diameter	(mm)	850
Height	(mm)	760
Material and lining		SS41
Weight	(kg) approx.	350

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(i) Dil NaOH dosing pump

Type		HORIZONTAL, DIAPHRAGM
Capacity	(l/H)	~~2~~ 200 9th Issue-19
Manufacturer		Oyalox, Nippon Feeder or equivalent *
Number		TWO (2)
Head	(m)	30
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.
Material and lining		SUS304
Weight	(kg) approx.	100

(j) Dil NaOH tank agitator

Type		PADDLE TYPE
Manufacturer		Ebara Infilco or Shinko Phaudler *
Number		ONE (1)
Material and lining		
Shaft		SS41
Casing		FC20 *
Agitating propeller		~~SS41~~ FRP 11th Issue-20
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V Tenderer's Data Sheet.
Weight	(kg) approx.	50

(k) Dil NaOH tank level control

Type	FLOAT TYPE LEVEL SWITCH
Manufacturer	SAKURA SOKI

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		ONE (1)
Material and lining		Aluminum and alkyd resin *
Weight	(kg) approx.	0.2 *

(l) Conc NaOH/HCl transfer pump

		HCl	NaOH
Type		HORIZONTAL, DIAPHRAGM	
Capacity	(ℓ/m³/H) **	50 / ~~30~~ $1m^3/h$	115th Issue-31
Manufacturer		Oyalox, Nippon Feeder or equivalent *	
Number		Two (2) / Two (2)	
Head	(m)	30 / 30	
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.	
Material and lining		PVC / SUS304	
Weight	(kg) approx.	200	

(m) Chemicals storage yard pit pump

Type		HORIZONTAL, CENTRIFUGAL
Capacity	(m^3/H)	10
Manufacture		KUBOTA or YOSHIKURA or EBARA or KSB PAKISTAN
Number		TWO (2)
Head	(m)	10
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V Tenderer's Data Sheet.
Material and lining		FC 25 with RUBBER
Weight	(kg) approx.	120

(n) Painting — ALKALI & ACID PROOF

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(8) Control unit system

(a) pH meter

Type	GLASS ELECTRODE
Manufacturer	
pH detector	YEW / DKK
pH indicator	YEW / DKK
pH recorder	YEW
Alarm setter	YEW
pH metering range and sense	PH= 4 - 12
pH detection spots.	PRIMARY & FINAL PIT

(b) Flow integrating meter

Type	MAGNETIC TYPE
Manufacturer	
Flow detector	YEW
Flow indicator	YEW
Flow integrating meter	YEW
Flow metering range and sens. (m^3/H)	0 to 120
Flow detection spots.	DISCHARGE LINE

(c) Control panel for waste water treatment equipment

Type	METAL ENCLOSED FREE STANDING
Manufacturer	Ebara Infilco or Shinko Phaudler *
Height x Width x Depth (mm)	800 x 2400 x 1500
Number	ONE (1)
Weight (kg) approx.	800

(d) Painting — Alkyd resin *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(9) Piping

(a) Under ground pipe

Pipe material	SGP
Protection material for external surface	ASPHALT
Protection material for internal surface	
Size	

(b) On ground pipe

Pipe material	STPG #38 / PVC
Protection material for external surface	PAINTING
Protection material for internal surface	Painting *
Size	50 - 300 mmø *

(10) Ladder, handrail, walkway with grating, manhole cover and pit cover

Material	Carbon steel *
Total weight	Approx. 8000 kg *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

7. CHLORINATION EQUIPMENT

(1) Chlorination equipment

(a) Salt dissolving tank (V-3) & City water tank (V-1)

		V-3	V-1
Type		Vertical square	
Manufacturer		DAIKI ENGINEERING or CHLORINE ENGINEERS CORP. LTD.	
Number		1	1
Capacity	(m^3)	0.7 8.8	1.9
Dimension (L x D) ~~Diameter~~	(mmø)	4,000 x 4,000	1,589 x 1,090
Height (H)	(mm)	1,100	1,100
Material and lining		SS41 + FRP lining	
Weight	(kg) approx.	400	180

(b) ~~Recirculation tank~~
Sodium hypochlorite receiver tank (V-2)

Type		Vertical square
Number		1
Capacity	(m^3)	1.6
Dimension (L x D) ~~Diameter~~	(mmø)	1,589 x 910
Height (H)	(mm)	1,100
Material and lining		SS41 + PVC lining
Weight	(kg) approx.	180

(c) Sodium hypochlorite storage tank (V-4)

Type		Vertical cylindrical
Manufacturer		NIPPON KOBUNSHI KAGAKU CO.,LTD or FUJI KAKO CO., LTD.
Number		2
Capacity	(m^3)	20
Diameter	(mmø)	2,800
Height	(mm)	3,250

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Material and lining		FRP
Weight	(kg) approx.	550

(d) Salt transfer pump

Type		Diaphragm metering
Manufacturer		IWAKI or NIPPON FEEDER
Number		2
Capacity	(l/H)	96
Discharge pressure	(kg/cm^2)	2
Material		
Casing		PVC
Plunger		-
Valve		HASTELOY-C
Diaphragm		PTFE
Weight	(kg) approx.	70
Motor		0.4KW ~~The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.~~

(e) Recirculation pump

Type		Not required
Manufacturer		
Number		
Capacity	(l/H)	
Discharge pressure	(kg/cm^2)	
Material		
Casing		
Plunger		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Valve		Not required
Diaphragm		
Weight	(kg) approx.	
Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

(f) Sodium hypochlorite injection pump

Type		Diaphragm metering	Centrifugal
Manufacturer		IWAKI or NIPPON FEEDER	AWAMURA MFG. CO., LTD.
Number		2	1
Capacity	(l/H)	252	5,500
Discharge pressure	(kg/cm^2)	2	2
Material			
Casing		PVC	Cast iron + H.R.L.
Plunger		-	-
Valve		HASTELOY-C	-
Diaphragm		PTFE	-
Weight	(kg) approx.	70	130
Motor		~~The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Bidder's Data Sheet.~~	

(g) Strainer

Type		Y-type
Manufacturer		TOYO EMBI CO., LTD.
Capacity	(m^3/H)	0.1
Number		2

16. Yamada

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Screen	(mesh)	24
Material		
Body		PVC
Basket		PVC
Screen		PE
Connection pipe		25A
Weight	(kg) approx.	0.5
(h) Electrolyzer cell		
Type		Bi-pole type
Manufacturer		DAIKI ENGINEERING or CHLORINE ENGINEERS CORP., LTD.
Capacity	(kg/H as Cl_2)	± 8.2
Number		2
Material		
Anode		Ti + Pt Group Coating (DSA)
Cathode		Ti
Cell body		PVC
Service life	(years)	~~2~~ 5 9th Issue-21
Connection pipe		25A, 40A
Dimension		
Module	(mm)	-
Unit total	(mm)	650 x 351 x 936
Weight	(kg) approx.	250
(i) Exhaust fan		
Type		Sirocco type
Manufacturer		SEIKOW CHEMICAL ENGINEERING & MACHINERY, LTD.

K. Honda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		2
Capacity	(m^3/min)	11.6
Static pressure	(mmAq)	20
Motor		~~The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.~~
(j) Deration column (if required)		Not required.
Type		
Manufacturer		
Gas release capacity	(cc/l)	
Number		
Material		
Body		
Valve housing		
Float		
Cylinder dia.	(mmϕ)	
Connection pipe		
Weight	(kg) approx.	
(e) Injection diffuser		
Type		Nozzle
Manufacturer		Unsettled
Number		2
Material		PVC
Weight	(kg) approx.	5
(2) Rectifier equipment		
Type		SCR (Thyristor)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		SANYODENKEN CORP., LTD.
Number		2
Rating		Continuous
Rectifier connection		3 Phase Bridge
(a) Cooling system		
Transformer		Fan cooling
Rectifier		Fan cooling
(b) AC main power source		
Phase		3
Frequency	(Hz)	50
Voltage	(V)	400
(c) DC output		
Rated voltage	(V)	100
Rated current	(A)	500
Regulating range	(A)	50 - 500
Constant accuracy	(%)	± 5
(d) Efficiency	(%)	80
(e) Power factor	(%)	90
(f) Dimension	(mm)	800 x 850 x 2400
(g) Weight	(kg) approx.	850
(3) Control panel		
Type		Metal enclosed self-standing
Manufacturer		SANYODENKEN CORP., LTD.
Number		2
Dimension	(mm)	800 x 400 x 2400
Weight	(kg) approx.	250

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(4) Flow indicator

Type		Float type	
Manufacturer		TOKYO KEISO CO., LTD.	
Number		2	1
Measuring range	(m^3/H)	0.12 - 1.2	1.0 - 6.5
Material			
Body		PVC	
Float		Grass	
Dimension	(mm)	125Ø x 360	155Ø x 370

(5) Pressure gauge

Type		Diaphragm seal type	
Manufacturer		NAGANO KEIKI WORKS LTD.	
Measuring range	(kg/cm^2)	0 - 3	
Number		5	
Accuracy	(%)	± 2	
Material		SS304 + Teflon	

(6) Piping

Material and size	Material	Size
Cooling tover	-	-
Injection pipe	PVC	25A, 40A
Sodium hypochlorite pipe (Drinking outer injection)	PVC	25A, 40A
Spare nozzles and valves	-	-
Drain pipe	PVC	25A
Clean water pipe	PVC	20A, 25A, 40A
Connection flange (kg/cm^2)	PVC	JIS10K

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(7) Painting

Material	Melamine resin paint Epoxy resin paint

(8) Ladder and stage with grating, manhole cover and pit cover

Material	Mild steel
Total weight	Prot-13 ~~Informed later~~ approx. 5,000kg

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

8. YARD INSTRUMENT AIR SYSTEM

(1) Air compressor

Type		RECIPROCATING WATER COOLED, OIL FREE
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		2
Cylinder number x cylinder diameter	(mm)	1 x 130
Stroke	(mm)	100
Speed	(rpm)	900
Capacity	(m^3/min at free air)	≒ 1.02 9th Issue-22
Suction pressure	(mmbar)	1,010
Discharge pressure	(kg/cm^2g)	≒ 7.0
Shaft horse power	(KV)	7.2

Material

Frame and cylinder	CAST IRON
Cross head	DUCTILE CAST IRON
Piston	ALUMINUM ALLOY
Piston ring	CARBON
Connecting rod	DUCTILE CAST IRON
Crank shaft	DUCTILE CAST IRON
Valve seat	DUCTILE CAST IRON
Valve plate	STAINLESS STEEL
Valve spring	STAINLESS STEEL

Motor

The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight			
Compressor	(kg)	approx.	455
Complete	(kg)	approx.	535 (incl. Motor)
Dimension	(mm)		$1,500^{L} \times 1,000^{W} \times 1,400^{H}$
(2) After cooler			
Type			HORIZONTAL, SHELL AND TUBE
Number			2
Capacity (m^3/min at free air)			1.02
Material			
Tube			COPPER TUBE
Shell			CARBON STEEL
Diameter			
Tube	(mmOD)		12
Shell	(mmOD)		60.5
Thickness			
Tube	(mm)		1.0
Shell	(mm)		3.9
Length	~~(°C)~~ (mm)		2,745
Outlet air temp.	(°C)		50
Outlet cooling water temp.	(°C)		45
Weight	(kg)	approx.	70
(3) Air receiver			
Type			VERTICAL CYLINDRICAL
Number			1
Capacity	(m^3)		1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Diameter	(mm)	800
Height	(mm)	1,750 (T.L to T.L)
Design pressure	(kg/cm^2g)	8
Material		CARBON STEEL
Shell thickness	(mm)	8
Weight	(kg) approx.	1,000

(4) Air dryer

Type		REFRIGERATIVE, FULLY AUTOMATIC
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Number		1
Capacity (m^3/min at free air)		1.02
Air pressure	(kg/cm^2g)	7
Dimension		-
Height	(mm)	600
Width	(mm)	525
Depth	(mm)	400
Number of gas compressor		1
Dew point of discharge air	(^oC)	- 15
Discharge air temp.	(^oC)	43
Weight	(kg) approx.	70

(5) Control panel

Type		VERTICAL SELF-STANDING
Height	(mm)	1,250
Width	(mm)	600
Depth	(mm)	350

S. Uemura

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight	(kg) approx.	50

(6) Piping

	Material	Size O.D.
Compressor outlet to equipment	CARBON STEEL	48.6 x 3.5t
	-	-

(7) Electric power source

KV	12
Voltage	380
Phase	3

(8) Painting — LONG OIL BASE ALKYD RESIN FINISH COAT

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

9. PIPE SUPPORT AND STRUCTURAL STEEL FOR YARD PIPING

(1)	Support type	PIPE RACK TYPE
(2)	Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
(3)	Number	1 set
(4)	Total length (assumed)	1,500 m
(5)	Support material	CARBON STEEL
(6)	Total weight (ton) approx.	500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

10. LABORATORY AND INSTRUMENTS

10.1 LABORATORY

10.1.1 LABORATORY FIXTURES

15th Issue-34

(1) For fuel laboratory

Item	Type	Specification	Dimension (LxWxH)	Quantity
(a) Storage cupboard	Ply-wooden		1800x750x1800	2
(b) Wall table	Ply-wooden		2400x750x750	2
(c) Wall table	Ply-wooden		2400x750x750	2
(d) Drawer cupboard	Ply-wooden		1500x750x800	1
(e) Drawer cupboard	Ply-wooden		1200x750x800	2
(f) Corner unit	Ply-wooden		950x950x800	2
(g) Sink unit	Stainless steel		1800x750x (800+130)	1
(h) Sink unit	Stainless steel		1500x750x (800+130)	2
(i) Center table	Ply-wooden		3600x1500x800	1
(j) Work table	Ply-wooden		2400x900x750	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(2) For analytical instrument room

Item		Type	Specification	Dimension (LxWxH)	Quantity
(a)	Storage cupboard	Ply-wooden		1800x500x1800	1
(b)	Storage cupboard	Ply-wooden		1800x300x980	2
(c)	Wall table	Ply-wooden		2400x750x750	2
(d)	Wall table	Ply-wooden		1800x750x750	3
(e)	Wall table	Ply-wooden		1800x750x750	1
(f)	Draw cupboard	Ply-wooden		1200x750x800	1
(g)	Corner unit	Ply-wooden		950x950x800	1
(h)	Corner unit	Ply-wooden		950x950x800	1
(i)	Sink unit	Stainless Steel		1800x750x (800+130)	1
(j)	Sink unit	Stainless Steel		1800x750x (800+130)	1
(k)	Vibration proof balance table	Ply-wooden		900x750x800	2
(l)	Center table	Ply-wooden		3600x1500x 800	1
(m)	Office desk and chair	Steel furniture		1400x730x750	3

(3) For storage room

Item		Type	Specification	Dimension (LxWxH)	Quantity
(a)	Storage cupboard	Ply-wooden		1800x300x980	2
(b)	Storage cupboard	Ply-wooden		1800x500x1800	3
(c)	Super shelf	Steel furniture		1200x600x1800	2

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(4) For water analysis room

Item		Type	Specification	Dimension (LxWxH)	Quantity
(a)	Storage cupboard	Ply-wooden		1760x400x880	1
(b)	Storage cupboard	Ply-wooden		900x400x1800	3
(c)	Storage cupboard	Ply-wooden		1800x500x1800	3
(d)	Super shelf	Steel furniture		1200x600x1800	2
(e)	Bottle cabinet	Ply-wooden		880x400x880	4
(f)	Wall table	Ply-wooden		2400x750x750	1
(g)	Wall table	Ply-wooden		1800x750x750	1
(h)	Wall table	Ply-wooden		1800x750x750	1
(i)	Wall table	Ply-wooden		1800x750x750	1
(j)	Draver cupboard	Ply-wooden		1500x750x800	1
(k)	Draver cupboard	Ply-wooden		1200x750x800	1
(l)	Draver cupboard	Ply-wooden		1200x750x800	1
(m)	Draver cupboard	Ply-wooden		600x750x800	1
(n)	Corner unit	Ply-wooden		1100x1100x800	3
(o)	Sink unit	Stainless steel		1500x750x (800+130)	1
(p)	Center table	Ply-wooden		3000x1500x (800+700)	1
(q)	Vibration proof blance table	Ply-wooden		900x750x800	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

10.2 LABORATORY INSTRUMENT

10.2.1. WATER ANALYSIS EQUIPMENT

(1) Electrical spectrophotometer

Number	1
Manufacturer	SHIMADZU CORP.
Type	UV-120-02
Power supply	117 V, 50 Hz
Stability	±10% V ~~&~~ ±1% HZ (9th Issue-1)
Meter/Digital reading	DIGITAL
Range	~~200 - 1000nm~~ 195 - 870 (9th Issue-23)
Accessories	
Filters	not used
Test tubes	1
Dust covers	1
Spare lamps	10 + 10
Spare photoelectric cell	5 + 5 + 5
Dimensions	
Length	505 mm
Width	374 mm
Height	240 mm
Weight	19 kg

(2) Electrical spectrophotometer

Number	1
Manufacturer	SHIMADZU CORP.
Type	UV-120-01
Power supply	117 V, 50 Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

9th Issue-1

Stability	±10% V ~~+~~ ±1% Hz
Meter/Digital reading	DIGITAL
Range	325 - 1000nm
Accessories	
Filters	not used
Test tubes	1
Dust covers	1
Spare lamps	10
Spare photoelectric cell	5 + 5 + 5
Dimensions	
Length	505 mm
Width	374 mm
Height	240 mm
Weight	19 kg

(3) pH meter

Manufacturer	CENTRAL KAGAKU CO., LTD.
Type	UC-23
Power supply	
Mains	110 V, 50 Hz, AC
Number	2
Power consumption (mains only)	0.3 Watts
Meter/Digital reading	DIGITAL
Type of calibration	Temperature compensation
Voltage stabilizing arrangement	Low voltage alarming
Scope adjustment	Yes
Auto zeroing facility provided	~~Yes/No~~

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Scale	
Type of scale	DIGITAL
pH range	0 to 14.00 pH
Millivolt range	±1999 mV
Accuracy	0.01 ph ± 1 digit
Repeatability	± 0.01 pH
Input impedance	mega Ohms
Temperature compensator	
Type	Thermo resistor
Range	0 to 60 °C
Overall dimensions and weight	
Length	320 mm
Width	170 mm
Height	210 mm
Weight	3 kg
Accessories supplied	
Reference electrodes	5
Combination pH electrodes	10
Any others (if any)	GLASS ELECTRODE 10

(4) Conductivity meter

Number	1
Manufacturer	YANACO
Type and Model	MY-9
Input power supply required	100 V. 50 Hz
Power consumption	0.1 Watts
Number	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

From mains	100 V, 50 Hz
From internal oscillator	100 V, 50 Hz
Range	4, 0.1 - 10^6 μs
Accuracy	±0.5%
Type of measuring circuit	high accuracy balance point
Cell constant compensation	
Temperature compensation	0 - 50 °C
Conductivity cell	
Number of cells offered	5 2 ~~1~~ 2 **
Type	Standard Special Special
Cell constant	K=1.0 = 0.1 =10
Cell electrodes	
(a) Material and plating	epoxy resin/high density carbo
(b) Area	18ø x 135 mm *
Material of electrode sheath of protective case	GLASS
Temperature limitations	50°C
Accessories	1 set *
Overall dimensions	
Length	360 mm
Width	360 mm
Height	150 mm

* 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5) Drying oven

Number	2
Manufacturer	OTUKA RIKA CO., LTD.
Type	electric heater
Capacity	0.2 m^3
Temperature range	40 to ~~200~~ 250 °C 9th Issue-24
Operating sensitivity	0.5 ± °C of max. oven temp.
Operating uniformity	0.5 ± °C of max. oven temp.
Power supply	100 V, 50 Hz
Power consumption	2.6 kW (max.)
Construction	
Double walled	Yes/~~No~~
Insulation - glass wool	Yes/~~No~~
Type of air circulation	FORCED
No. of rust-resistant shelves	5
Dimensions	
Length	1150 mm
Width	840 mm
Height	930 mm
Weight	110 kg
Accessories	thermometer

(6) Muffle furnace

Number	2
Manufacturer	ISHIZUKA DENKI
Type	IMK-A

H. Shimada

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Power supply (from mains)	110 V, 50 Hz
Temperature range	0 - 1199 °C
Furnace working volume	2 liter
Furnace internal dimensions	
Length	200 mm
Width	100 mm
Height	100 mm
Fuse	
Material of fuse	BLC23A
Temperature indicator	
Type	E5K09CA
Temperature control accuracy	± 3 °C
Thermocouple material	CA
Accessories	2 sets *
Temperature	
(a) Range	0 - 1199 °C
(b) Smallest division	1 °C
Standard to which equipment conforms	JIS *

(7) Analytical balance (Direct reading)

Number	1
Manufacturer	SHIMADZU CORP.
Type of readout	DIGITAL
Power supply (from mains)	100 V, 50 Hz
Capacity	200g
Total weighing range	0 - 200.000 mg

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Readability	0.1 mg
Precision	± 0.05 mg
Type of damping	MANUAL
Pan	
Material	non-magnitic stainless steel
Diameter	75 mm
Beam material	titanium
Housing material	plastic
Is protective lock provided	~~Yes~~/No
Spare bulb	Yes/~~No~~
Brush	~~Yes~~/No
Calibration weights	~~Yes~~/No
Plastic tweezer	~~Yes~~/No
Plastic dust cover	Yes/~~No~~
Accessory	1 set 9th Issue-1

(8) Top loading electric balance

Number	1
Manufacturer	SHIMADZU CORP.
Type of readout	DIGITAL
Capacity	1000g
Total weighing range	1,000,000 mg
Readability	100 mg
Precision	± 60 mg
Type of damping	Manual 9th Issue-1
Pan	
Material	steel

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Diameter	160 mm
Clear height available above pan	no limit mm
Power supply	100 V, 50 Hz
Standard accessory	dust cover

(9) Electric water bath

Number	1
Manufacturer	IKEMOTO SCIENTIFIC TECH.
Capacity	40.3 litres
Overall dimensions	
- Height	320 mm
- Diameter	650 x 430 mm
Maximum heating temperature	90 °C
Temperature control accuracy	± 0.6 °C
Temperature distribution accuracy	± 1 °C
Number of openings	6
Standard accessory	thermometer

(10) Electric refigerator

Number	1
Manufacturer	SANYO
Type	2-door
Capacity	225 leter ~~cubic m~~
Number of compartments	2
Number of shelves	4
Overall dimensions	
- Height	1800 mm

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Tenderer's Data Sheet	MITSUI & CO., LTD. (Tenderer's Name)
- Width	600 mm
- Deep	800 mm
Power supply	100 V, 50 Hz
Standard accessory	thermometer
(11) Shaker	
Number	1
Manufacturer	IKEMOTO SCIENTIFIC TECH.
Shaking method	Horizontal and Vertical
Timer range	0 - 60 min.
Power	AC 100V, 50Hz
Standard accessory	box holder
(12) Magnetic stirrer	
Number	1
Manufacturer	IKEMOTO SCIENTIFIC TECH.
Stirrer	
Type of stirring bars	TEFLON SA
Quantity and length of stirring bars	6 x 30mm
Motor rating	10 Watts
Maximum speed	1000 rpm
(13) Hot Plate	
Number	1
Manufacturer	ISHIZUKA DENKI
Shape	RECTANGULAR
Dimension (size)	400 x 380 mm
Heating element rating	1.8 KW

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Type of energy regulation control	thermostat
Power supply (from mains)	100 V, 50 Hz
Standard to which equipment conforms:	
(a) Stirrer	JIS
(b) Hot plate	JIS

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(14) Demineralizer

Number	1
Manufacturer	KOTOBUKI KAKOKI CO., LTD.
Treating capacity	25 l/H
Resin volume	Cation 0.7 litre
	Anion 1.4 litre
Water source	POTTABLE WATER
Standard accessory	Conductivity meter

(15) Indigo carmine apparatus

Number	1
Manufacture	Shibata
Type	E485
Measuring range	0 ppb - 170 ppb
Standard accessory	reagent

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(16) Jar tester

Number	1
Manufacturer	IKEMOTO SCIENTIFIC TECH.
Power supply required (from mains)	100 V. 50 Hz
Power consumption	120 Watts
Stirrer Paddles	
Number	4
Material	Vinyle chloride
Maximum speed	200 rpm
Speed Control	
Method of speed control	voltage adjustment
Can the speed of each paddle be independently controlled?	no
Speed Measuring Device	
Type	angular rectifier
Range	0 - 200 rpm
Accuracy	2.5 class
Overall dimensions (L x B x H)	650 x 250 x 520 mm
Maximum size of Jar/Beaker Unit can be accommodated	beaker for 1 liter
Standard accessory	none

(17) Filteration equipment

(a) Filter holder

Number	3
Manufacturer	IKEDA RIKA
Type	Microfilter 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Filter holder size		47 mm
Water pat size		1000 ml *
Standard accessory		
Milipore filter	Size	47 mm *
		100 pieces *
(b) Mini pump		
Number		2
Manufacturer		IKEDA RIKA
Type		diaphragm
Vacuum		1×10^{-3} mmHg
Capacity		15 ℓ/min
Standard accessory		2 sets *
(18) Turbidity meter Number / Type		1 / UC-6 Prot.22-2

10.2.2 FUEL OIL ANALYSIS EQUIPMENT

(1) Flash point test	
Number	1
Manufacturer	RIGOSHA & CO., LTD.
Type	200ESR
Temperature range	50 - 300 °C
Accuracy of flash point determination	± 5 °C
Power supply	
- Voltage	100 V
- Frequency	50 Hz
- Phase	Single

* 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Overall dimension	
- Length	300 mm
- Breadth	250 mm
- Height	750 mm
Standard accessory	test cup, thermometer
(2) Specific gravity hydrometers	
Type	I
Range in degree	0.600 - 1.100
Maximum permissible error	0.001
Adjusted for use at 15°C	Yes/~~No~~
Maximum overall length	300 mm
Hydrometer jars	
(a) Overall height	360 mm
(b) Diameter	55 mm
Standard accessory	thermometer
(3) Viscosity apparatus	
(a) Viscometer bath	
Number	1
Manufacturer	SIBATA SCIENTIFIC TECH.
Power input	100 V. 50 Hz
Maximum power rating	1.7 kW
Tank capacity	19 litres
Temperature range	15 °C to ~~85~~ 100 °C
Temperature fluctuation	up to 85 °C ±0.01°C
Numbers for each size range viscometers	6

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Tenderer's Data Sheet

MITSUI & CO., LTD.

Indicating thermometers to standard per specification	0 - 100°C
Numbers for each thermometer	1
Accessories	
Standard	1
Standard set for cannon method of JIS-2283 range	1
Stop watch	1

(4) Pour points apparatus

Number	1
Manufacturer	RIGOSHA & CO., LTD.
Type	500 -04H
Standard to which apparatus conforms	JISK2269, ASTMD97D2500
State number of each accessory provided	
Thermometers	5
Cork ring gaskets for test jar	4
Cork discs for test bath pockets	4
Standard test jars	4

(5) Conradson carbon-residue apparatus

Number	1
Manufacturer	RIGOSHA & CO., LTD.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Standard to which apparatus conforms	JIS K2270 ASTM D189, IP-13, ISO6615
Ancillary accessories included	Porcelain crucible
	Steel crucible

(6) Water contents measuring apparatus

Number	2
Manufacturer	RIGOSHA & CO., LTD.
Type	760 - 01E
Conical Flask Volume	500 ml
Standard to which apparatus conforms	JIS K2275, ASTM D95
Accessories	Flask, Receiver

(7) Centrifugas

Number	1
Manufacturer	KOKUSAN ENSHINKI CO., LTD.
Type	H-103N
Maximum speed	4000 rev/min
Maximum volume	0.48 litres
Centrifuge motor	
- Rating	0.3 kW
Power supply	
- Voltage	100 V
- Frequency	50 Hz
- Phase	Single
Electric timer range	60 min
Speed range	4000 rpm

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Overall dimension.		
- Height	450	mm
- Width	450	mm
- Depth	450	mm
Standard accessory	Test tube 36 pcs	
(8) Hot plate		
Number	1	
Manufacturer	ISHIZUKA ELECTRIC	
Type	IPH	
Plate material	Stainless steel	
Heater rating	1.8	kW
Power supply		
- Voltage	100	V
- Frequency	50	Hz
Weight	20	kg
Type of energy regulation control	thermostat	
Maximum temperature	400	°C
Temperature range	150 - 400	°C
Temperature accuracy	10	°C
Overall dimension		
- Length	400	mm
- Width	380	mm
Standard accessory	thermometer	
(9) Electric refigerator		
Number	1	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer	SANYO ELECTRIC
Type	2 door
Capacity	225 liter
Number of compartments	2
Number of shelves	4
Overall dimensions	
- Height	1800 mm
- Width	600 mm
- Deep	800 mm
Power supply	100 V. 50 Hz
Standard accessory	thermometer

(10) Thermostatic water both

Number	1
Manufacturer	IKEMOTO SCIENTIFIC TECH.
Type	10 - 0822 9th Issue-1
Capacity	40 litres
Temperature range	15 °C to 90 °C
Temperature control accuracy	± 0.6 °C
Power supply	100 V. 50 Hz
Heater rating	1 Watts
Standard accessories	thermometer

(11) Muffle furnace

Number	1
Manufacturer	ISHIZUKA DENKI
Type	IMK-A
Power supply (from mains)	110 V. 50 Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(12) Drying oven

Number	1
Manufacturer	OTUKA RIKA CO., LTD.
Type	electric heater
Capacity	0.2 m^3
Temperature range	40 to 200 °C
Operating sensitivity	± 0.5 °C of max. oven temp.
Operating uniformity	± 0.5 °C of max. oven temp.
Total supply (from mains)	100 V. 50 Hz
Power consumption	2.6 kW (max.)
Construction	
Double walled	Yes/~~No~~
Insulation - glass wool	Yes/~~No~~
Type of air circulation	FORCED
No. of rust-resistant shelves	5
Dimensions	
Length	1150 mm
Width	840 mm
Height	930 mm
Weight	110 mm
Accessories	thermometer

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Temperature range	40 to 200 °C
Furnace working volume	216 litre
Furnace internal dimensions	9th Issue-1
Length	600 mm
Width	600 mm
Height	600 mm
Fuse	
Material of fuse	BLC23A type
Temperature indicator	
Type	mercury
Temperature control accuracy	± +0.5 °C
Thermocouple material	CA
Accessories	
Temperature indicator	
(a) Range	40 to 200 °C
(b) Smallest division	1 °C
Standard to which equipment conforms	JIS

(13) General purpose drying oven

Number	1
Manufacturer	OTUKA RIKA CO., LTD.
Type	electric heater
Working chamber	0.2 m2
Temperature	40 °C to 200 °C
Operating sensitivity	± ±0.5°C
Operating uniformity	± ±0.5°C

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Power consumption	2.6 kW
Housing dimension	
- Width	600 mm
- Height	600 mm
(14) Sulfur contents equipment	
Number	2
Manufacturer	RIGOSHA & CO., LTD.
Measuring method	Quarty tube combustion
Voltage regulator	
Range	5 - 110V
Control method	manual
Furnace type	tubular furnace
Furnace tube	quartz
Thermo meter	meter type
Complete with accessories	quartz tube, absorber, trap

10.2.3 ANALYTICAL INSTRUMENTS

(1) Calorimeter	
Number	2
Manufacturer	YOSHIDA SEISAKUSHO
Bomb	
Capacity	300 ml
Type	self sealing
Materials of construction	
(a) Cup and cap	brass
(b) Union nut	brass

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Tenderer's Data Sheet	MITSUI & CO., LTD. (Tenderer's Name)
Internal diameter	55 mm
Thickness of wall/top/bottom	18/14/12mm
Weight	4130g
Calorimeter vessel	
Capacity	30 liters
Vessel diameter	300 mm
Vessel height	465 mm
Material of construction	brass
Type of cover	plastic
Water jacket	
Capacity	130Ø x 250H
Type	Electric heater 9th Issue-1
Material	brass
Stirrer	
Type	Oring drive
Input power supply	100V, 50Hz
Speed	800 rpm
Dimensions	
(a) Diameter	11 mm
(b) Depth	300 mm

Accessories

Item	Quantity
Ignition wire	1000
Cotton thread	1 roll

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Internals of calorimeter bomb oxygen valve	1
Hook for lifting bomb	1
Spanner for tightening union nuts in oxygen filling assembly	1
Water Jacket cover support stand	No
Bomb cover support stand	1
Benzoic acid pellets of standard calorific valve	20
Any other accessories	paper for sample
Overall dimensions of complete unit	
(a) Diameter	365 x 525 mm
(b) Height	700 mm

(2) Analytical balance (Direct reading)

Number	1
Manufacturer	SHIMADZU CORP.
Type of readout	DIGITAL
Power supply (from mains)	100 V. 50 Hz
Capacity	200g
Total weighing range	0 - 200,000 mg
Readability	0.1 mg
Precision	± 0.05 mg
Type of damping	Manual
Pan	
Material	Non-magnetic stainless steel
Diameter	75 mm
	mm

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Beam material	titanium
Housing material	plastic
Is protective lock provided	~~Yes~~/No
Spare bulb	Yes/~~No~~
Brush	~~Yes~~/No
Calibration weights	~~Yes~~/No
Plastic tweezer	~~Yes~~/No
Plastic dust cover	Yes/~~No~~
Accessory	1 set

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(3) Analytical balance (Direct reading)

Number	1
Manufacturer	SHIMADZU CORP.
Type of readout	DIGITAL
Power supply (from mains)	100 V, 50 Hz
Capacity	200g
Total weighing range	0- 200,000 mg
Readability	0.01 mg
Precision	± 0.01 mg
Type of damping	manual
Pan	
Material	non-magnetic stainless stee
Diameter	75 mm
	mm
Beam material	N.A.
Housing material	N.A.
Is protective lock provided	~~Yes~~/No

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Spare bulb	Yes/~~No~~
Brush	~~Yes~~/No
Calibration weights	~~Yes~~/No
Plastic tweezer	~~Yes~~/No
Plastic dust cover	Yes/~~No~~
Accessory	1 set 9th Issue-1

(4) Top loading electric balance

Number	1
Manufacturer	SHIMADZU CORP.
Type of readout	DIGITAL
Capacity	2000g
Total weighing range	0 - 2,000,000 mg
Readability	100 mg
Precision	±60 mg
Type of damping	self
Pan	
Material	steel
Diameter	160 mm
Clear height available above pan	no limit mm
Power supply	100 V, 50 Hz
Standard accessory	dust cover

(5) Atomic absorption spectrophotometer

Number	1
Manufacturer	SHIMADZU CORP. or NIPPON JARREL ASH
Type	AA-670

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Wavelength range	190 - 900 mm
Grating - Monochromator	1800 lines/mm
Wavelength accuracy	±0.005 mm
Wavelength Repeatability	automatic wave length setting mm
Resolution	
Detector (Type & Number)	photomultiplier
Scanning speed	10 nm/min ~~mm/min~~ *
Time constant	7 sec. *
Recorder output range	OUTPUT SIGNAL FOR GRAPHIC PRINTER ONLY
Type of Data Presentation	Print on chart *
Capacity of lamp compartment	8 lamps turret
Burner	
Type	PREMIX TYPE & HIGH TEMP.
Type of flame	C2H2 - AIR
Method of burner lighting	AUTO
CPU with CRT unit	GRAPHIC PRINTER
Cathodic lamps	
Power	110 V. 50 Hz
Standard accessory	1 set *

(6) Compressor

Number	1
Manufacturer	Shimadzu Corp. or Nippon Jarrel Ash *
Type	Oil-less *
Exhaust velocity	75 lit/ min
Motor	

* 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Voltage	100 V, 50 Hz

(7) Elementry analyzer (C, H, N)

Number	1
Manufacturer	Yanaco *
Type	MT-3 *
Measuring rang	Carbon contents
	Hydrogen contents
	Nitrogen content
Indication	DIGITAL
Capability of analysis	4
Timer	DIGITAL SWITCH

(8) Gas/liquid chromatographic apparatus

Number	1
Manufacturer	HIMADZU CORP.
Type	GC-9APTF
Heater rating	0.2 kW *
Column temperature	15 °C to 399 °C
Power supply	100 V, 50 Hz
Gas flow	100 to 200 ml/min
Sample volume	
- Liquids	1 - 50 ul
- Gases	1 - 5 ml
Detection limit	3×10^{-12} g/s -c
Overall dimension	
- Length	550 mm
- Width	550 mm

* 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

- Height	550 mm
Weight	50 kg
Accessories	data processor

(9) Orstat apparatus

Number	2
Manufacturer	OKANO WORKS
Type	ESA *
Absorption pipettes	two conpartment
Number of pipettes	2
Number of compartments/pipettes	2
Rubber expansion bag provided for each piette	yes
Burette	
(a) Number	2
(b) Capacity (inclusive of bulb at the top)	100 ml
(c) Graduation in lover part	0 to 50 ml
(d) Smallest sub-division	0.2 ml
Levelling bottle capacity	300 ml *
Case with removable Front/Rear doors provided	Yes *
Overall dimensions of Case (L x B x H)	500 x 300 x 900 *

* 9th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

10.2.4 FLUE GAS ANALYZER EQUIPMENT

(1) Nox SOx O_2 analyzer

Number		1
Manufacturer		FUJI ELECTRIC
Type		indoor
Measuring range	SOx	0 - 200 ppm
	NOx	0 - 2000 ppm
	O_2	0 - 25 %
Response	NOx, O_2	less than 15 sec
	SOx	less than 30 sec
Accuracy		±0.5%
Standard gas		attached
Power		100 V, 50 Hz

(2) Dust measuring equipment

Number	1
Manufacturer	OKANO WORKS
Suction pipe	
Material	Stainless steel
Size	3000 mm (1)
Vacuum pump	Specification
	1 - 30 lit/min
Dust measuring equipment	paper filter

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Gas meter	Specification Pitot tube
Accessories	Connecting tube for pitot tube

(3) Flow-velocity measuring equipment

Number	1
Manufacturer	OKANO WORKS
Type	Pitot tube
Inclined manometer	Specification 0 - 300 mm

(4) Sulfur oxides measuring equipment

Number	1
Manufacturer	OKANO WORKS
Type	EK-103N

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Suction pump	Specification
	100V, 50Hz
Sampling tube	Specification
Material	Polyethylene
Gas meter	Attached
Accessories	timer

(5) Nitrogen oxides measuring equipment

Number	1
Manufacturer	OKANO WORKS
Type	EK-104
Suction pipe	Polyethylene
Suction pump	Specification
	EP-15P
	100V, 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Vacuum monitor

Specification

attached

Accessories

timer

10.2.5 LABORATORY APPARATUS

	Quantity
(1) Volumetric flasks	
50 ml	No
100 ml	75
250 ml	25
500 ml	25
1000 ml	20
(2) Measuring pipette	
1 ml	20
2 ml	20
5 ml	20
10 ml	20
20 ml	10
25 ml	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Quantity
(3) Measuring hole pipette	
5 ml	10
10 ml	10
20 ml	10
25 ml	10
50 ml	10
(4) Erlenmeyer flask with plug	
50 ml	30
100 ml	50
200 ml	100
300 ml	50
500 ml	50
(5) Nickel crucibles	-
50 ml	20
100 ml	20
(6) Porcelain crucibles	
20 ml	50
50 ml	100
100 ml	100
200 ml	50
(7) Burettes	
(a) Automatic	
2 ml	10
5 ml	10
10 ml	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Quantity
25 ml	20
(b) Normal	
2 ml	10
5 ml	10
10 ml	10
25 ml	20
(8) Bottles	
(a) Colored	
Wide-mouthed	
250 ml	30
500 ml	10
1000 ml	5
5 l	5
Narrow-mouthed	
250 ml	30
500 ml	10
1000 ml	10
(b) White	
Wide-mouthed	
250 ml	30
500 ml	10
1000 ml	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Quantity
5 l	5
10 l	5
Narrow-mouthed	
250 ml	30
500 ml	10
1000 ml	10
(9) Distillation apparatus	
(Pyrex glass with condenser)	5
(10) BOD bottle with cap	
Clear 200 ml	20
Clear 300 ml	20
(11) Washing bottle, polyethylene	
500 ml	20
1000 ml	20
(12) Bottle, polyethylene	
Amber 500 ml	50
Amber 1000 ml	50
Clear 500 ml	50
Clear 1000 ml	50
(13) Winkler flask	
100 ml	20
300 ml	20
500 ml	10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(14)	Separate funnel	
	250 ml	15
	500 ml	15
	1000 ml	15
(15)	Nessler tube	
	50 ml	20
	100 ml	20
(16)	Flasks (Flat bottom)	
	250 ml	20
	500 ml	10
	1000 ml	10
(17)	Plastic squeeze bottles	
	500 ml	10
	1000 ml	10
(18)	Clamps	30
(19)	Support clamps (Ring type)	30
(20)	Triangles (nickel-chromium wire silica covered)	30
(21)	Bottles (Polyethylene) (with friction fitted cap to protect contents)	
	500 ml	100
	1000 ml	100
(22)	Spatulas (Stainless steel)	20
(23)	Desiccators	
	300 mm ϕ	5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(24)	Burette stand (with thirty (30) supports)	5
(25)	Tripod	10
(26)	Wire squares (with asbestos centers) 200 ml	40
(27)	Petri dish 90 x 20 mm	50
(28)	pH test paper Universal (9 mm)	30
(29)	Filter paper Black band	30 packs
	Blue band	30 packs
	White band	30 packs
(30)	Filter (used for suspended solids)	1 pack
(31)	Millipore filter	2 packs
(32)	Vinyl tube 5 x 7 mm	40 m
	10 x 10 mm	40 m
	20 x 28 mm	40 m
(33)	Stop cock Straight bore 8 mm	20
	Three way 8 mm	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(34)	Three-prong grip clamp	
	50 mm	20
	100 mm	20
(35)	Filter papers	

	ϕ 9 cm	ϕ 11 cm
	Quantity	Quantity
Black band	10	10
Blue band	10	10
White band	10	10
Filter paper (normal)	1 box	1 box

		Quantity
(36)	pH test paper (Roll type)	1
(37)	Beckman thermometer	5
(38)	pH buffer powder	
	pH 7	10
	pH 9	10
(39)	Mortars with pestles	
	ϕ 8 cm	1
	ϕ 15 cm	2
	ϕ 20 cm	1
(40)	Porcelain capsules	
	ϕ 3 cm	20
	ϕ 4 cm	20
	ϕ 5 cm	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(41)	Glass funnel (with groove)	
	ϕ 8 cm	15
	ϕ 10 cm	15
	ϕ 15 cm	15
(42)	Plastic funnel	
	ϕ 4 cm	10
	ϕ 8 cm	10
	ϕ 10 cm	10
(43)	Watch glasses	
	ϕ 10 cm	25
	ϕ 12 cm	25
	ϕ 15 cm	25
(44)	Glass rod	
	ϕ 0.5 cm 2 kg ϕ 0.7 cm	2 kg
(45)	Glass tubing	
	ϕ 0.5 cm 2 kg ϕ 0.7 cm	2 kg
(46)	Rubber tubing	
	ϕ 0.5 cm	20 m
	ϕ 1 cm	20 m
	ϕ 2 cm	20 m
(47)	Thermometer (mercury)	
	100°C	30
	250°C	10
(48)	Bunsen burner	10
(49)	Tube holders	4

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(50)	Test tubes	250
(51)	Crucible tongs (Nickel)	5
(52)	Separating funnels (Globe shape) (Stopper at bottom)	
	250 ml	10
	500 ml	10
	1000 ml	10
(53)	Cork borers	1 set
(54)	Measuring cylinder with cap	
	50 ml	12
	100 ml	12
(55)	Bottles dropping	
	25 ml	20
	50 ml	20
(56)	Teflon beakers	
	200 ml	20
(57)	Pipette holder	2
(58)	Pincette	20
(59)	Pinch cock	100
(60)	Carboy (Screw neck with spigot, polyethylene)	
	25 l	4

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(61)	Paper (industrial absorbent tissues, soft, white, non-abrasive, non-linting - for cleaning spectrophotometer cells)	
	Size 5 x 9 in	50 boxes
	15 x 18 in	50 boxes
(62)	Centrifuge tubes with stopper, conical 10 ml, with measure	10
(63)	Dishes (evaporating type, round bottom)	
	ϕ 100 mm	10
(64)	Dishes (culture)	
	ϕ 90 mm	50
(65)	Stopcocks	
	Straight bore ϕ 8 cm	20
	Threeway, T bore ϕ 8 mm	20
(66)	Clamps (versatile, three-prong grips)	
	50 mm	10
	100 mm	10
(67)	Jack (laboratory, stainless steel 200 mm x 200 mm)	2
(68)	Electric heater (1200W, to permit heat control enters rang)	2
(69)	Platinum plate	
	Number	1
	Capacity	100 ml

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Quantity
(70)	Platinum pot	
	Number	1
	Capacity	30 ml
(71)	Sampler	
	Number	2 sets
	Type	JIS K2251, JIS K2832
	Capacity	1000 ml
	Accessories	rope 6Ø100m
(72)	Beakers	
	50 ml	50
	100 ml	100
	200 ml	100
	250 ml	100
	500 ml	50
	1000 ml	25
	2000 ml	25
(73)	Measuring cylinder	Prot.22-1
	10 ml	20
	25 ml	20
	50 ml	20
	100 ml	30
	250 ml	10
	500 ml	10
	1000 ml	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.

(Tenderer's Name)

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10.2.6 LABORATORY REAGENTS

	Material	Quantity
(1)	Sulfuric acid	40 (btl x 500cc)
(2)	Phenolphthalein	2 (btl x 25g)
(3)	Ethyl alcohol	40 (btl x 500cc)
(4)	Methyl orange	2 (btl x 25g)
(5)	Hydrochloric acid	40 (btl x 500cc)
(6)	Strontium chloride	4 (btl x 25g)
(7)	Barium chloride	2 (btl x 500g)
(8)	Sodium hydroxide	10 (btl x 500g)
(9)	Potassium chromate	4 (btl x 500g)
(10)	Silver nitrate	4 (btl x 500g)
(11)	Sodium chloride	4 (btl x 500g)
(12)	Mercuric nitrate	8 (btl x 25g)
(13)	Nitric acid	20 (btl x 500CC)
(14)	Diphenyl carbazone	4 (btl x 25g)
(15)	Bromophenol blue	4 (btl x 25g)
(16)	Ammonium oxalate	4 (btl x 500g)
(17)	Ammonium hydroxide	60 (btl x 500cc)
(18)	Potassium permanganate	2 (btl x 500g)
(19)	Sodiumthiosulfate	10 (btl x 500cc)
(20)	Sodiumthiosulfate	2 (btl x 500g)
(21)	Starch	2 (btl x 500g)
(22)	Sodium sulfide	2 (btl x 500g)
(23)	Potassium sodiumtartarate	6 (btl x 500g)
(24)	Disodium EDTA	8 (btl x 500g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Quantity
(25)	Magnesium chloride	2 (btl x 500g)
(26)	Ammonium chloride	4 (btl x 500g)
(27)	Eriochrome black T	4 (btl x 25g)
(28)	Sodium carbonate	4 (btl x 500g)
(29)	Methyl alcohol	20 (btl x 500cc)
(30)	Calcium carbonate	2 (btl x 500g)
(31)	Methyl red	1 (btl x 25g)
(32)	P-Dimethyl amino benzaldehyde	4 (btl x 25g)
(33)	Hydrazine dihydrochloride	1 (btl x 500g)
(34)	Glycerin	1 (btl x 3 liter)
(35)	Potassium iodide	4 (btl x 500g)
(36)	Indigo carmine	4 (btl x 25g)
(37)	Potassium hydroxide	20 (btl x 500g)
(38)	Dextrose	1 (btl x 500g)
(39)	Cobalt chloride hexa hydrate	1 (btl x 500g)
(40)	Ferric III chloride	2 (btl x 500g)
(41)	Copper sulfate	2 (btl x 500g)
(42)	Sodium silicate	1 (btl x 500g)
(43)	Buffer tablet for hardness determination with EDTA	2 (btl x 600 tablet)
(44)	Ammonium acetate	8 (btl x 500g)
(45)	Acetic acid	20 (btl x 500cc)
(46)	Kongo red	4 (btl x 25g)
(47)	Chloroform	4 (btl x 500g)
(48)	Cupper (metal)	1 (btl x 25g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Quantity
(49)	Sodium citrate	4 (btl x 500g)
(50)	Sodium acetate	10 (btl x 500g)
(51)	1-Amino 2-naphtol 4-sulphonic acid	2 (btl x 500g)
(52)	Sodium sulfite	4 (btl x 500g)
(53)	Sodium pyro-sulfite	6 (btl x 500g)
(54)	Ammonium meta vanadate	2 (btl x 500g)
(55)	Potassium mono phosphate	4 (btl x 500g)
(56)	Tin chloride	4 (btl x 500g)
(57)	Sodium chromate	4 (btl x 500g)
(58)	Oxalic acid	8 (btl x 500g)
(59)	Potassium hydrogen phthalate	4 (btl x 500g)
(60)	Disodiumphosphate	4 (btl x 500g)
(61)	Hydrofluoric acid	1 (btl x 500cc)
(62)	Perchloric acid	2 (btl x 500CC)
(63)	Isopropyl alcohol	40 (btl x 500cc)
(64)	N-Hexyl alcohol	40 (btl x 500cc)
(65)	Iso-amylalcohol	20 (btl x 500cc)
(66)	Baso-phenontroline	2 (btl x 5g)
(67)	Ortephenanthroline	1 (btl x 25g)
(68)	Iron amonium sulfate	2 (btl x 500g)
(69)	Aluminium nitrate	2 (btl x 500g)
(70)	Ammonium thiocyanaide	2 (btl x 500g)
(71)	Potasium chloride	4 (btl x 500g)
(72)	Bromocresol green	4 (btl x 25g)
(73)	Thymol blue	4 (btl x 25g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Quantity
(74)	Kaolin	2 (btl x 500g)
(75)	Zinc (metal)	2 (btl x 500g)
(76)	Zinc chloride	2 (btl x 500g)
(77)	NN-Indicator	4 (btl x 25g)
(78)	Potasium sulfate	4 (btl x 500g)
(79)	Hydroxylamine hydrochloride	4 (btl x 500g)
(80)	Manganium sulfate	4 (btl x 500g)
(81)	Potasium iodate	1 (btl x 500g)
(82)	Sodium hydrogencarbonate	2 (btl x 500g)
(83)	Sodium azide	1 (btl x 500g)
(84)	Barium chloride	2 (btl x 500g)
(85)	Ferric ammonium sulfate	2 (btl x 500g)
(86)	Potasium thiocyanate	2 (btl x 500g)
(87)	Bromothymol blue	4 (btl x 25g)
(88)	Calcium chloride	2 (btl x 500g)
(89)	Barium chromate	2 (btl x 500g)
(90)	Tartaric acid	8 (btl x 500g)
(91)	Mercuric chloride	2 (btl x 500g)
(92)	Zinc sulfate	2 (btl x 500g)
(93)	Iodine	2 (btl x 500g)
(94)	Basocaproin	2 (btl x 5g)
(95)	Zincon	10 (btl x 1g)
(96)	Xylenol orange	1 (btl x 10g)
(97)	Iso-propylalcohol	20 (btl x 500cc)
(98)	Ammonium molybdate	10 (btl x 500g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Quantity
(99)	Sulfosalicylic acid	1 (btl x 500g)
(100)	Ammonium persulfate	1 (btl x 500g)
(101)	Ammonium citrate	4 (btl x 500g)
(102)	Dimethylglyoxime	1 (btl x 500g)
(103)	Ammonium nickelsulfate	1 (btl x 500g)
(104)	Silversulfate	4 (btl x 500g)
(105)	Sodium oxalate	1 (btl x 500g)
(106)	Sodium chlorate	1 (btl x 500g)
(107)	Aluminium sulfate	1 (btl x 500g)
(108)	Normal hexane	20 (btl x 500cc)
(109)	Para-phynylendiamine	4 (btl x 25g)
(110)	Aniline	2 (btl x 500g)
(111)	α-naphthylamine	20 (btl x 25g)
(112)	Zinc (powder)	2 (btl x 500g)
(113)	Sodium nitrite	2 (btl x 500g)
(114)	Xylole	20 (btl x 500cc)
(115)	Hydroperoxide	10 (btl x 500cc)
(116)	Sulfamic acid	1 (btl x 25g)
(117)	Methylene blue	4 (btl x 25g)
(118)	Benzoic acid (for calory test)	8 (btl x 25g)
(119)	Toluene	10 (btl x 500cc)
(120)	Para-rosaniline hydrochloride	4 (btl x 25g)
(121)	Formalin	2 (btl x 500cc)
(122)	Potassium hydrogen phtholate	1 (btl x 500g)
(123)	Sodium bormide	1 (btl x 500g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Quantity
(124)	Borax	1 (btl x 500g)
(125)	Methyl isobuthyl ketone	4 (btl x 500g)
(126)	Silver chloride	2 (btl x 500g)
(127)	N.A.N.A.	4 (btl x 25g)
(128)	Lanthanum (III) oxide	1 (btl x 500g)
(129)	Magnesium oxide	1 (btl x 500g)
(130)	Fluorescein-Na.	1 (btl x 500g)
(131)	Sodium acetate (Trihydrate)	1 (btl x 500g)
(132)	Ammonium molybdate	8 (btl x 500g)
(133)	Sodium hydrogen sulfite	4 (btl x 500g)
(134)	Phenol	1 (btl x 500cc)
(135)	Acetone	4 (btl x 500cc)
(136)	Cuprizone	10 (btl x 1g)
(137)	Triethanolamine	20 (btl x 25g)
(138)	D.C.C	4 (100kg)
(139)	T.P.T.Z	4 (btl x 25g)
(140)	Nitrobenzene	2 (btl x 500g)
(141)	Sodium perchlorate	2 (btl x 500g)
(142)	Sulfanilic acid	1 (btl x 500g)
(143)	3.3'-Dimethylbenzidine	1 (btl x 25g)
(144)	Potassium dichromate	1 (btl x 500g)
(145)	Sodium pyrophosphate	1 (btl x 500g)
(146)	Stontium chloride	1 (btl x 500g)
(147)	Brucine	1 (btl x 50g)
(148)	2.6 Naphthalenediamine	4 (btl x 25g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Material	Quantity
(149)	N.N-Dimethyl-P-pheny lenediamine	4 (btl x 25g)
(150)	Calcium standard salution	1 (btl x 100cc)
(151)	Cadomium standard solution	1 (btl x 100cc)
(152)	Copper standard solution	1 (btl x 100cc)
(153)	Iron standard solution	1 (btl x 100cc)
(154)	Magnesium standard solution	1 (btl x 100cc)
(155)	Manganese standard solution	1 (btl x 100cc)
(156)	Sodium standard solution	1 (btl x 100cc)
(157)	Zinc standard solution	1 (btl x 100cc)
(158)	Aluminium standard solution	1 (btl x 100cc)
(159)	Vanadium standard solution	1 (btl x 100cc)
(160)	Nickel standard solution	1 (btl x 100cc)
(161)	Silicon standard solution	1 (btl x 100cc)
(162)	Lead standard solution	1 (btl x 100cc)
(163)	Molybdenum standard solution	1 (btl c 100cc)
(164)	Chlomium standard solution	1 (btl x 100cc)
(165)	Tin standard solution	1 (btl x 100cc)
(166)	Furning sulfuric acid	6 (btl x 500cc)
(167)	~~Sodium chloride~~ Potassium nitrate	1 (btl x 500c)
(168)	Potassium	1 (btl x 100g)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

11. REPAIR ROOM INSTRUMENTS

11.1 MECHANICAL/ELECTRONIC INSTRUMENTS

		Type	Manufacturer	Number	Specification
(1)	Deadweight pressure gauge tester	PD22-350	NAGANO or equivalent	1	0-350kg/cm2
(2)	- Ditto -	PD22-100	"	1	0-100kg/cm2
(3)	- Ditto -	PD12-50	"	1	0-50kg/cm2
(4)	- Ditto -	PD12-20	"	1	0-20kg/cm2
(5)	Standard pressure gauge set			2	-76cmHg-350kg/cm2
(6)	Oxygen analyzer (Portable)	0x61	YOKOGAWA or equivalent	1	0-20%
(7)	Tool set for mechanical instrumen	6925-1000	"	5	
(8)	Tool set for electrical instrument	6925-2000	"	5	
(9)	Maintenance tool set	6925-6000	"	5	
(10)	pH cell checker	8491	"	2	
(11)	Digital manometer	265421	"	1	10, 20kg/cm2
(12)	- Ditto -	265424	"	1	1000,2500mmH2O
(13)	Universal digital metter	25012	"	2	0-1000V, 0-100M
(14)	Decade resistance box	2973-01	"	2	
(15)	Multi-pen recorder	3061	"	2	9 channel
(16)	Portable DC V/A (Standard)	2554	"	2	0-120V,0-120mA
(17)	Voltage/current (Standard)	2553	"	2	0-12V, 0.1-120mA
(18)	Pneumatic pressure (Standard)	265623	"	2	0-2Kg/cm2

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(19)	Revolution meter (Digital)	SS-8	IRIE SEISAKUSHO or equivalent	1	20,000 rpm
(20)	- Ditto -	HT-430	DAIICHI KAGAKU or equivalent	1	50-15,000 rpm
(21)	Potentionmeter	2756	YOKOGAWA or equivalent	1	10mV-MOV
(22)	Wheatston bridge	2755	"	1	portable
(23)	H_2 gas lekage detector	Portable	or equivalent	1	
(24)	Vibration mater (Digital)	1,330	DAIICHI KAGAKU or equivalent	1	0-2mm(p-p)
(25)	Oil bath for thermometer tester		YOKOGAWA	1	
(26)	Standard thermometer	2,809	YOKOGAWA or equivalent	1	0-800°C
(27)	- Ditto -			1	-50-360°C
(28)	- Ditto -			1	0-100°C
(29)	Oscilloscope	SS55121	IWATSU or equivalent	5	100MHz
(30)	- Ditto -	SS5702	IWATSU or equivalent	1	20MHz
(31)	Thickness meter	FD-32	MITSUBISHI or equivalent	1	Max 30mm
(32)	- Ditto -	DUAL SWP	KETT	1	0-500micron
(33)	Pinhole & holding detecter	TRC-10A	SANK or equivalent	1	
(34)	Electronic digital stopvatch	Low leakage		2	
(35)	Soldering irons with very lov leakage current	Low leakage		2	25, 40, 50 W
(36)	Working table	Hard wood		1	700x3000x2000mm
(37)	Cupboard for instruments	A1275-B	LION or equivalent	4	800x1750x400mm
(38)	Rack for spare parts	6366P	LION or equivalent	3	1800x1500x450mm

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(39)	Cupboard for instruction booklets	635	LION or equivalent	2	880x1750x400mm
(40)	Desk	A1275-B	"	3	700x1200x700mm
(41)	Chair	240	"	5	

11.2 ELECTRICAL/ELECTRONIC INSTRUMENT

		Type	Manufacturer	Number	Specification
(1)	DC ammeter	2011-06	YOKOGAWA or equivalent	1	0.1/0.3/1/3A
(2)	- Ditto -	2011-07	"	1	1/3/10/30A
(3)	DC voltmeter	2011-09	"	1	3/10/30/100V
(4)	- Ditto -	2011-10	"	1	30/100/300/100V
(5)	DC ammmeter and voltmeter (17 range)	2012-00	"	2	50mV-1000V 1-30A
(6)	AC ammeter	2013-12	"	3	0.5/1/5A
(7)	- Ditto -	2013-13	"	1	5/10/20A
(8)	- Ditto -	2013-14	"	3	10/20/50/100A
(9)	AC voltmeter	2013-16	"	1	30/75V
(10)	- Ditto -	2013-18	"	3	150/300V
(11)	AC ammeter and voltmeter (13 range)	2014-00	"	3	0.15-30A 30-750V
(12)	Watt meter (for 3 phase)	2042-02	"	1	120/240V,45-65Hz 1/5A
(13)	Frequency meter	2038-01	"	1	120/240V, 45-65Hz
(14)	Shunt	2215 2216	"	3	100,300,500/1000mV
(15)	Current transformer	2242-00	"	2	100/300/750/1500A
(16)	Potential transformer	2262-00	"	2	3,300/6,600V
(17)	Noise level meter	2603	"	1	30dB-130dB
(18)	Revolution meter	2601 2611	"	1	500/1000/5000 rpm

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Type	Manufacturer	Number	Specification
(19)	Tester	3201	YOKOGAWA or equivalent	3	
(20)	Auto megger	3213	"	2	250 V/50 Mohm
(21)	- Ditto -	3213	"	2	500 V/1000 Mohm
(22)	- Ditto -	3213	"	2	1000 V/2000 Mohm
(23)	Cycle counter	3283	"	1	110/200 V
(24)	Ground resistance meter	3235	"	1	0 - 10 - 100 - 1000 ohm
(25)	Illumination level meter	3281	"	1	300/1000/3000 lx
(26)	Variable resistance	2791	"	2	4800 ohm, 0.18 A
(27)	- Ditto -	2791	"	2	170 ohm, 1 A
(28)	- Ditto -	2791	"	2	100 ohm, 1 A
(29)	Power factor meter	2039-02	"	1	120 V/5 A
(30)	Var meter			1	120 V/5 A
(31)	Digital phase frequency meter	DPF-30N	KEIHIN DENSOKKI or equivalent	2	0.3 - 450 V, 0 - 360° 1 mA - 15 A, 40 - 70 Hz
(32)	Millisecond meter (Digital)	MCS-2C	"	1	0 - 99,999.9 msec
(33)	Hook on meter	SNAP8	KEW or equivalent	2	6/15/100/300 A 150/600 V
(34)	- Ditto -	SMAP9	YOKOGAWA or equivalent	1	10/30/300/900 A 150/750 V
(35)	Induction voltage regulator (3 phase)	VAT-2010V	YOKOGAWA or Equivalent	1	120/240 V, 10 A
(36)	Phase checker	PI-11	KEIHIN DENSOKKI or equivalent	2	50 - 450 V
(37)	Relay testing device with accessories	PRB-12A2	KEIHIN DENSOKKI or equivalent	1	
(38)	Meter * ~~Vater~~ resistance box	-	YOKOGAWA or equivalent	3	- 9th Issue-1 0 - 1000 M
(39)	Digital multi meter	2506	YOKOGAWA or equivalent	2	AC 0 - 500 V DC 0 - 1000 V

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Type	Manufacturer	Number	Specification
(40)	Photocondencer		SANEI SOUKI	1	18 element
(41)	Syncroscope with photographic attachment	SS-5710	IWASTSUor equivalent	1	
(42)	DC voltmeter (Standard)	2558	YOKOGAWA or equivalent	1	
(43)	Portable double bridge	2769	"	1	
(44)	Dial variable resistance	2790	"	2	
(45)	Rotary for WH (Standard)	VP-20	TOSHIBA or equivalent	1	
(46)	High voltage test set (for oil)	ETP505	KEIHIN DENSOUKI or equivalent	1	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. TRUCK CRANE

(1) Crane

(a)	Type	HYDRAULIC
(b)	Manufacturer	KATO OR TADANO OR KOBELCO OR IHI OR HITACHI
(c)	Number	1
(d)	Capacity	40,000 kg at 3 m
(e)	Dimension	
	. Overall length (mm) approx.	13,520
	. Overall width (mm) approx.	2750
	. Overall height (mm) approx.	3600
(f)	Weight (Gross vehicle weight)	
	. Total weight (kg)	35,400
	. Front weight (kg)	13,500
	. Rear weight (kg)	21,900
(g)	Boom	
	. Fully retracted length (m)	10.5
	. Fully extended length (m)	35.0
	. Extension speed	24.3 m, in 84 sec.
(h)	Jib	
	. Long jib length (m)	16.0
	. Short jib length (m)	9.0
(i)	Elevation speed	-2.5^{o} 8.2^{o} in 58 sec.
(J)	Hoist	
	. Rope speed for main winch	
	High speed (m/min)	106
	Low speed (m/min)	53

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

. Rope speed for auxiliary winch

High speed	(m/min)	90
Low speed	(m/min)	90

. Wire rope of main winch

Diameter and length 18 m x 190 m

. Wire rope of auxiliary winch

Diameter and length 18 m x 110 m

(k) Swing speed (rpm) 1.8

(l) Hydraulic system

. Type of oil pump	GEAR PUMP
. Hydraulic oil tank capacity (l)	675
. Type of control valve	MANUAL MULTIPLE VALVES

(m) Safety device

BOOM ANGLE INDICATOR
OVER-WINDING CUT OUT DEVICE
WINCH AUTOMATIC BRAKE
HOOK SAFETY LATCH
HYDRAULIC PRESSURE RELIEF VALVES

(n) Outrigger

. Extended width (mm) 6,600

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(2) CARRIER

(a)	Type		4 CYCLE, WATER COOLED DIESEL ENGINE
(b)	Manufacturer		NISSAN DIESEL OR MITSUBISHI MOTORS
(c)	Engine		
	. Type		4 CYSLE, WATER COOLED DIESEL ENGINE
	. Maximum output horsepover (ps/rpm)		315/2300
	. Maximum output torque (kg-m/rpm)		105/1400
(d)	Wheel base	(mm)	6,650
(e)	Tread front	(mm)	2,270
(f)	Tread rear	(mm)	2,110
(g)	Maximum speed	(km/h)	68
(h)	Turning radius	(m)	11.8
(i)	Gradeability	(%)	30
(j)	Transmission system		10 FORWARD, 2 REVERSE
(k)	Tire		
	. Front		SINGLE x 4, 11.00-20-16Pr
	. Rear		DOUBLE x 4, 11.00-20-16Pr
(l)	Fuel tank capacity	(l)	300
(m)	Electrical system		24V DC

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

13. FORK LIFT TRUCK

(1)	Type		COUNTER BALANCE
(2)	Manufacturer		TOYOTA OR TOYO UMPANKI CO.,LTD
(3)	Number		1
(4)	Capacity (maximum)	(kg)	5000
(5)	Lifting height (maximum)	(mm)	3000
(6)	Fork length	(mm)	1220
(7)	Turning radius	(mm)	2780
(8)	Driver		
	(a) Type		4 CYCLE, WATER COOLED DIESEL ENGINE
	(b) Manufacturer		ISUZU OR TOYOTA
	(c) Number		1
	(d) Displacement	(liter)	5393
	(e) Speed	(rpm)	1600
	(f) Rated output	(PS/rpm)	92/2000

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

14. OVERHEAD CRANE FOR INTAKE PUMP STATION

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(1)	Type		OVERHEAD · outdoor
(2)	Manufacturer		DIA MACHINE, UBE INDUSTRIES, or EITAI MACHINERY
(3)	Number		ONE (1) SET
(4)	Capacity		
	Hoist	(ton)	± 5
(5)	Span (Center to center rails)	(mm)	5,800
(6)	Runway rail		
	Type		I 400 x 150 x 10 I BEAM
	Length (total)	(mm)	19,000
(7)	Full load speed		
	Hoist	(m/min)	4.5
	Trolley travel	(m/min)	10.0
	Bridge travel	(m/min)	10.0
(8)	Maximum lift of hook		
	Hoist	(mm)	10,000
(9)	Motor		The Tenderer shall indicate the motor specification in accordance with sub-clause 12 of "Electric Motor" in Clause V of Tenderer's Data Sheet.

	Type	Voltage	KW	rpm
Hoist	Wound rotor	AC380V	6.3	1,000
Trolley travel	Wound rotor	AC380V	2.5	1,000
Bridge travel	Wound rotor	AC380V	2.5	1,000

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(10) Brake

Hoist	AC MAGNETIC BRAKE
Trolley travel	ELECTRO-HYDRAULIC BRAKE
Bridge travel	ELECTRO-HYDRAULIC BRAKE

(11) Diameter of drum

Hoist	(mm)	315

(12) Bridge type — I BEAM

(13) Hoisting rope size (mm) — 12.5

(14) Wheel

		Bridge	Trolley
Diameter	(mm)	250	250
Number		8	8
Maximum load (each wheel)	(kg)	2,300	1,000

(15) Trolley wire size (mm^2) — 3.5

(16) Material

Bridge	Rolled Steel
Trolley	Rolled Steel
Drum	Rolled Steel
Hoisting rope	High Carbon Steel Wire Rods
Trolley wire	600V 2 PNCT

(17) Weight

Bridge	(kg) approx.	3,800
Trolley	(kg) approx.	3,000
Assembly	(kg) approx.	9,600 ~~2,800~~ 7th Issue-15

(18) Painting — Phthalic Acid Resin Paint

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(19) Divided package number for shipping 12

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

15. MISCELLANEOUS INSTRUMENTS AND CONTROL APPARATUS

~~TO BE INFORMED LATER~~ 9th Issue-27

15.1 INSTRUMENT	Manufacturer	Model No.
(1) Recorder		
Electric signal (V, mA, etc.)	Fuji Electric,	PFA, PGY, PGK
(2) Indicator		
Dial type	Fuji Electric,	SWM
Vertical type	Fuji Electric,	PBA
(3) Transmitter		
Pressure (draft)	Fuji Electric,	FBC
Temperature.	N.A.,	N.A.
Flow	Fuji Electric,	FEC
Level	Fuji Electric,	FNC
Analysis (conductivity pH, etc.)	DKK Corp.,	WS, HB
(4) Controller		
Pressure	Nakakita,	-
Temperature	Nakakita,	-
Flow	N.A.,	N.A.
Level	Nakakita,	-
Analysis (conductivity pH, etc.)	DKK Corp.,	WB, HB
(5) Switch		
Pressure (Draft)	Nagano Keiki,	CQ21
Temperature	Kogyo Keiki,	TBP-40
Flow	N.A.,	
Level	Fushiman,	SLG3
Limit switch	Yamatake,	LSA4L

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

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		Manufacturer	Model No.
		~~TO BE INFORMED LATER~~	
(6)	Local indicator		
	Pressure gauge	Nagano Keiki	A, B
	Thermometer	Nagano Keiki	TL, TM
	Flow (positive displacement type	Oval	LW
	Flow (other)	Tokyo Keiso	R100
	Level	Tokyo Keiso	FT, FP
(7)	Sight glass		
	Sight flow	Nagano Keiki or equivalent	
	Level glass gauge	Nagano Keiki or equivalent	
(8)	Primary element		
	Thermocouple	Fuji Electric	FT
	RTD	Fuji Electric	FTF
	Thermo-well	Fuji Electric	-
	Flow orifice	Fuji Electric	FVA
	Flow nozzle	Fuji Electric	FVF
	pH	DKK Corp.	WB
	Conductivity	DKK Corp.	WS
(9)	Control valve	Japan Fisher, Okano, Gadelius	
(10)	Manometer	Nagano Keiki or equivalent	
(11)	Thermocouple extension wire	Furukawa Electric	
(12)	Control tubing	Furukawa Electric	

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Tenderer's Data Sheet

MITSUI & CO., LTD.

(Tenderer's Name)

included in item 6.5(1) on page DT-64

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15.2 POWER CONSUMPTION

(1) Instrument air (Nm^3/min) 0.5

(2) Electric power

AC	110	V	1,300 VA
			- V
DC	220	V	500 V

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SECTION V

GENERATOR AND ELECTRICAL EQUIPMENT

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SECTION V. GENERATOR AND ELECTRICAL EQUIPMENT

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Alternative

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

V. GENERATOR AND ELECTRICAL EQUIPMENT

1. GENERATOR EQUIPMENT

1.1 GENERATOR

Manufacturer		Fuji Electric
Type		Horizontal cylindrical rotating field
Kind		Synchronous
Type of outer cover		Totally enclosed, pressure-proof,
Cooling system		Gas Cooling
Number and position of cooler		4, Please see outline
Percentage continuous load at one cooler out of service	(%)	75
Rating		
Class of rating		Continuous
Capacity	(kVA)	294200
	(kg/cm^2g H_2) At	3
Power factor		0.85 (lagging)
Voltage	(kV)	16.5
Current	(kA)	10.294
Frequency	(Hz)	50
Phase		3
Pole		2
Connection		Wye
Speed	(RPH)	3,000
Field voltage	(V)	410
Field current	(A)	2,075

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Hydrogen gas pressure	(kg/cm^2g)	3
Hydrogen gas consumption	(m^3/day)	8.5
Cooling water pressure	(kg/cm^2g)	Min. 1.5
Pressure test for stator casing	(kg/cm^2g)	10
Over load operation time at 0.85 PF		
105% (hours) {= 308.91 MVA}		Continuous
110% (hours) {= 323.62 MVA}		Approx. 0.3
Insulation class		F
Short circuit ratio		Not less than 0.5
GD^2 effect	($kg.m^2$)	26,000
Dielectric strength		
Value of withstand voltage (Value for one minute)		
Stator	(kV)	36.
Rotor	(kV)	4.1
Negative phase sequence capability	(I_2^2t)	10
Influence of speed and voltage variation		
Frequency (Speed) variation	(%)	±5
Voltage variation	(%)	±5
Voltage regulation	(%)	23 at 1.0 pf, 35 at 0.85 pf
Mechanical strength		
Over speed strength (For one minute)	(%)	120
Critical speed	(RPM)	Approx. 1100, 3400

O. Yoneda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Waveform

Telephone influence factor

Balance	(% or less)	40
Residual	(% or less)	30
Generator voltage wave shape	(% or less)	10

Temperature

Standard of ~~ambient~~ coolant temperature	(°C)	57
Temperature rise value ~~(By resistance method)~~	(kg/cm^2g H_2) At	3
Stator coil	(°C)	62.5 by ETD
Rotor coil	(°C)	73 by R
Collector ring	(°C)	90 at Ambient temp 40°C

Reactance and time constant
(The following per unit (P.U) values are of the rated capacity and rated voltage base)

		Saturation	Non-saturation (P.U)
		Not more than	
Synchronous reactance	Xd	2.0	2.37
Quadrature-axis reactance	Xq	1.85	2.26
Direct-axis transient reactance	Xd'	0.26	0.29
Direct-axis subtransient reactance	Xd"	0.165	0.2
Quadrature-axis transient reactance	Xq'	0.49	0.5
Quadrature-axis subtransient reactance	Xq"	0.18	0.22

H. Yonada

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Alternative
(Rigid Support)

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Saturation	Non saturation (P.U)
Positive-phase-sequence reactance	X1	2.00	2.37
Negative-phase-sequence reactance	X2	0.17	0.21
Zero-phase-sequence reactance	Xo	0.11	
Open-circuit time constant	Tdo'(sec)	10	
Transient short-circuit time constant	Td' (sec)	1.4	
Subtransient short-circuit time constant	Td" (sec)	0.03	
Armature time constant	Ta (sec)	0.64	

Efficiency (At rated condition) with tolerance

*/**

Hydrogen pressure	3 kg/cm²(g)	2 kg/cm²(g)	1 kg/cm²(g)	1 Kg/cm²(g)
Load (%)	100	75	50	25
P.F 1.0	99.30	99.31	99.23	98.74
P.F ~~0.8~~ 0.85	99.02	99.06	99.00	98.44

Losses (At rated condition)

Iron loss	(kW)	340			
Bearing friction loss	(kW)	220			
Brush friction loss	(kW)	30			
Windage loss	(kW)	340 at Hydrogen pressure 3 kg/cm²(g			
Load	(%)	100	75	50	25
Resistance loss in the armature winding	(kW)	345	194	86	22
Resistance loss in the field winding	(kW)	740	465	275	150

applicable only for spring support ⇒ *10th Issue-2
**14th Issue-D.1

DE-4

The figures given herein are for rigid support.

H. Uemura

Alternative

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		100	75	50	25
Brush loss at the collector ring	(kW)	4.2	3.3	2.6	1.9
Exciter loss	(kW)	30	19	11	6
Stray load loss	(kW)	425	239	106	27

Generator bushing

Type		Epoxy resin mold Direct cooling
Quantity		6
Insulation level	(kV) BIL	150 ~~110~~ 10th Issue-3
Current	(A)	12,000

Resistance temperature detector (RTD)

Quantity	20

Brush

Quantity	total 54

Bushing type current transformer

		For metering	For relaying	For AVR	
CT ratio		12000/5A	12000/5A	12000/5A	
Quantity		3	9	3	
Burden	(VA)	40	60	40	
Accuracy class		~~0.6~~ 0.3	1.0	1.0	*
Over current strength		80KA	80KA	80KA	
Over current constant (>)		10	~~10~~ 20	10	*

Minimum space to with draw rotor

Straight pull	(mm)	16800
Askew	(mm)	14500

*10th Issue-4

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Alternative

Prot-12

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight of generator		
Stator	(kg)	250,000
Rotor	(kg)	50,400
Excitation equipment		
Manufacturer		Fuji Electric
Type		Thyristor
Quantity		1
Rating		
Class of rating		Continuous
Output	(kW)	940
Voltage	(V)	410
Current	(A)	2293
Characteristic		
Method of excitation		Static
Control capability of thyristor during system fault		
Rated generator voltage reduce	(%)	~~Inform later~~ 10 \ Prot-13
Time	(sec)	~~—~~ 2 /
Quick response excitation method		Discharge resister
Voltage quick response ratio of exciter	(1/sec)	4.0
Ceiling voltage of exciter	(V)	820
Ceiling voltage of exciter	(P.U)	2.0

M. Yuuda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

PPT

Manufacturer		Fuji Electric
Rating		
Capacity	(kVA)	2200
Class of rating		Continuous
High tension side voltage	(kV)	16.5
Lov tension side voltage	(V)	670
Frequency	(Hz)	50
High tension connection		IPB Yd1
Lovtension connection		Cable Yd1 *
Angler displacement		Star - Delta Yd1
Impedance voltage (at rated kVA base)	(%)	5
Insulation level		
High tension vinding (kV) ~~BIL~~		38kV (power frequency test) ~~110~~ *
Low tension vinding (kV) ~~BIL~~		4 (")
Insulation class bushing		B 15th Issue-39
Type		Dry
Insulation level (kV) ~~BIL~~		~~110~~ (same as winding) *
Current	(A)	80
Dimention (Approx.) Width	(mm)	2500
Depth	(mm)	1200
Height	(mm)	2000
Weight (Approx.)	(kg)	5000

*10th Issue-5

M. Yonezu

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ABDUL QAYUM & COMPANY
1, Nursery Lane
Lawrence Road
LAHORE

Tenderer's Data Sheet

. MITSUI & CO., LTD.
(Tenderer's Name)

Excitation cubicle

Manufacturer		FUJI
Type		METAL ENCLOSED
Thickness of steel plate	(mm)	2.3
Dimension (Approx.)		
Height	(mm)	2350
Width	(mm)	8000
Depth	(mm)	1500
Weight (Approx.)	(kg)	6000,

Main exciter field breaker

Manufacturer			FUJI OR EQUIVALENT
Type			ACB 10th Issue-6
Rating			
Voltage	(V)	DC	700
Current	(A)	DC	3000
Interrupting capacity	(kA)		~~Inform later~~ 30 Prot-13.

Shunt

Manufacturer		FUJI OR EQUIVALENT
Number		1
Rating		CONTINUOUS
Voltage	(mV)	100
Current	(A)	2500

M. Yonda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Control
H_2 ~~Cooler~~ Cubicle

Manufacturer			Fuji Electric Co., Ltd.
Type			Vertical Type
Dimension (Approx.)			
Height	(mm)		2350
Weight	(mm)		1000
Depth	(mm)		1000
Weight (Approx.)	(kg)		1000
Accessories			
Instrument and Meter			10th Issue-7
Kind x Number		H_2 Purity Indicator x 1	see Note
Type		PBA	
Accuracy class		±1.0%	
Manufacturer		Fuji	

CO_2 Cylinder

Manufacturer			Tomoe Shokai Co., Ltd.
Type			JIS Siphon type
Number			~~8~~ 14 **
Pressure	(kg/cm^2g)		90 *
Capacity	(Nm^3)		16 *
Dimension			
Height	(mm)		Approx. 1,340
Diameter	(mm)		232
Weight	(kg)		Approx. ~~85~~ 50 **

Note

Gas temp meter,
Flow meter,
Machine gas press gauge,
Diff fan press gauge

DE-9

*10th Issue-8
**15th Issue-35

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Main	Emergency
Seal Oil Pump			
Pump			
Manufacturer		Nittozoki Co.	Nittozoki Co.
Type		Gear	Gear
Number		1	1
Discharge pressure	(kg/cm^2g)	6.5	6.5
Capacity	(m^3/h)	6.6	6.6
Motor			
Manufacturer		Fuji Electric	Fuji Electric
Type		Totally enclosed fan cooled	Totally enclosed fan cooled
Class of rating		Cont.	Cont.
Rating			
Output	(kW)	3.7	2.2
Voltage	(V)	380	220
Frequency	(Hz)	50	DC
Speed	(RPM)	Approx. 960	Approx. 950
Vertical or horizontal		Horizontal	Horizontal
Insulation class		B	B
Starting method		Direct on line	Resister
Dimension (Approx.) (Complete assembly)			
Height	(mm)	350	350
Width	(mm)	250	250
Depth	(mm)	400	470
Weight (Approx.)	(kg)	45	45

I. Yoneda

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Tenderer's Data Sheet

Alternative

MITSUI & CO., LTD.
(Tenderer's Name)

H_2 gas and CO_2 gas in the generator

Minimum H_2 gas purity	(%)	92
Normal H_2 gas purity	(%)	98
Gas volume	(m^3)	68
Total gas capacity (at rated pressure)	(Nm^3)	272
Total gas capacity (at minimum pressure) (1.05 kg/cm^2g)	(Nm^3)	Approx. 72
CO_2 gas capacity for an air exception	(Nm3)	110
H_2 gas capacity for a CO_2 gas exception	(Nm3)	170
CO_2 gas capacity for a H_2 gas exception	(Nm3)	110
H_2 gas capacity for 90% purity (at minimum pressure) (1.05 kg/cm^2g)	(Nm3)	170
Circulating gas capacity	(Nm^3/min)	6,570
Quantity of a used cooling water	(^oC) At	49
	(m^3/min)	7
Outlet temperature of a used cooling water	(^oC)	54
Water head loss of the cooler	(m)	Max. 10

10th Issue-9

Quantity of a H_2 gas consumption (Including piping, vessel and accessories)

At minimum pressure (1.05 kg/cm^2g)	(Nm^3/day)	3
At rated pressure	(Nm^3/day)	8.5

M. Yonida

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Tenderer's Data Sheet

Alternative

MITSUI & CO., LTD.

(Tenderer's Name)

Quantity of sealing oil flow		
Quantity of the shaft sealing oil (at oil inlet temperature)	(^{o}C)	52
At minimum pressure	(m^3/min)	Approx. 0.03
At rated pressure	(m^3/min)	Approx. 0.05
Differential pressure between sealing oil pressure and H_2 gas pressure		
Collector side end	(kg/cm^2)	1.0 - 1.2
Turbine side end	(kg/cm^2)	1.0 - 1.2
Quantity of bearing oil flow		
Quantity of bearing oil (at oil inlet temperature)	(^{o}C)	53
	(m^3/min)	Approx. 0.65
Outlet temperature of the bearing oil	(^{o}C)	Approx. 67
H_2 gas generating equipment		
H_2 gas generator		TELEDYNE OR SHIRAKAWA ELECTROLYSER
Manufacturer		ELECTROLYSER
Type		2
Number		3
Generation capacity	(Nm^3/h)	7
H_2 gas pressure	(kg/cm^2g)	40
Electric power consumption	(kVA)	POTASSIUM HYDROXIDE
Electrolyte		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension (Approx.)	(mm)	1900(L) x 840(W) x 1650 (H)
Weight (Approx.)	(kg)	600
Feed water tank capacity	(m^3)	0.1
H_2 gas storage tank Manufacturer		MARUZEN ENG. OR SHIRAKAWA ELECTROLISER
Type		HORIZONTAL CYLINDRICAL
Number		1
Capacity	(m^3)	80
Design pressure	(kg/cm^2g)	8
Dimension	(mm)	3200 ø x 10000
Weight	(kg)	8000

1.2 ISOLATED PHASE BUS DUCT

Manufacturer		THE FURUKAWA ELECTRIC CO., LTD. OR EQUIVALENT		
Type		CONTINUOUS ENCLOSURE TYPE		
Conductor				
Kind and conductivity of the material		ALUMINIUM		
Size		REFER DWG.NO. MK6020-S01 S04		
Shape		REFER DWG.NO. MK6020-S01 S04		
Rating		Main Bus circuit	Sub Bus circuit	Branched Bus circuit
Voltage	(V)	16500	16500	16500
Current	(A)	12000	1000	200
Momentary current (Symm.)	(kA)	80	160	160
Insulator BIL	(kV)	150	150	150

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Main Bus circuit	Sub Bus circuit	Branched Bus circuit
Thermal stressed due to three phase short circuit	(sec)	2	2	2
Temperature rise				
Enclosure	(°C)	40°C		
Conductor	(°C)	65°C		
Supporting structure				
Kind of the material		STEEL		
Enclosure				
Kind of the material		ALUMINIUM		

1.3 PT CUBICLE

Potential transformer

Manufacturer		MEIDEN OR FUJI	
Type		MOLD TYPE	
Rating		For metering and relay	For AVR ~~and relay~~ *
PT ratio		$\frac{16.5}{\sqrt{3}}$KV/$\frac{110}{\sqrt{3}}$V	$\frac{16.5}{\sqrt{3}}$KV/$\frac{110}{\sqrt{3}}$V
Quantity		3	3
Accuracy class		0.3	~~1.0~~ 0.3 *
Burden /phase	(VA)	~~100~~ 200	~~100~~ 200 **
Connection		Wye	Wye

Cubicle

Dimension (Approx.)	Height	(mm)	1950
	Width	(mm)	1000
	Depth	(mm)	3000

*10th Issue-10
**15th Issue-40

16. Upade

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight (Approx.)		
PT cubicle (including PT)	(kg)	2000
Space heater		
Capacity	(VA)	200
Voltage	(V)	220

1.4 SA CUBICLE

Surge absorber		
Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		GAPLESS ARRESTOR
Rating		10KA
Cubicle		
Dimension (Approx.)		
SA cubicle Height	(mm)	N.A.
Width	(mm)	(The surge absober is
Depth	(mm)	contained in PT cubicle.)
Weight (Approx.)		
SA cubicle (including SA)	(kg)	
Space heater Capacity	(VA)	
Voltage	(V)	

1.5 NGR CUBICLE

Grounding transformer		
Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		DRY TYPE

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Rating			
Capacity		(kVA)	50
Voltage		(V)	16500/190
Class of rating		(min)	5
Ground resistor			
Manufacturer			MEIDEN OR FUJI ELECTRIC
Type			GRID TYPE
Rating			
Resistance		(ohm)	0.722
Current		(A)	264
Class of rating		(min)	5
Disconnecting switch			
Manufacturer			MEIDEN OR FUJI ELECTRIC
Type			MANUAL OPERATED, SINGLE POLE
Rating			
Voltage		(V)	24000
Current		(A)	20
Cubicle (including grounding transformer, grounding resistor and disconnecting switch)			
Dimension (Approx.)	Height	(mm)	2350
	Width	(mm)	1500
	Depth	(mm)	2000
Weight (Approx.)		(kg)	2300
Space heater			
	Capacity	(VA)	200
	Voltage	(V)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2. POWER TRANSFORMER

2.1 MAIN TRANSFORMER

Manufacturer			Fuji Electric Co., Ltd. or Equivalent		
Type			Oil immersed, outdoor		
Rating			ONAN	ONAF	OFAF
Capacity	(kVA)		N.A.	N.A.	294,200
Class of rating			Continuous		
Over load capability	(%)		According to IEC 354		
Voltage					
High tension side	(kV)		220		
Low tension side	(kV)		15.7		
No load no voltage tap	(kV)		F242-F236.5-F231-F225.5-R220-F214.5-F209-F203.5-F198		
Frequency	(Hz)		50		
Connection					
High tension side			Star		
Low tension side			Delta		
High tension neutral			Direct grounding		
Impedance voltage (at rated kVA base)	(%)		15 at 294.2 MVA base		
Insulation class					
High tension side			Graded insulation		
Low tension side			Full insulation		
Insulation level			Winding Neutral		Bushing Neutral
High tension side	(kV)	BIL	1050/650		1175/750
Low tension side	(kV)	BIL	150		200

10. Yonezawa

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Pressure test of tank	(kg/cm^2g)	1.0 at bottom of Tank	
Cooling equipment			
Number of coolers		4 + 1 (Stand by)	
Motor		Fans	Pumps
Number per cooler		4	1
Rated capacity	(kW)	0.75	2.2
Rated voltage	(V)	3ϕ,380	3ϕ,380
Sound level	(dB(A))	90	
Bushing			
Manufacturer		NGK/FUJI ELECTRIC	
Type			
High tension side		Condenser Type	
Low tension side		Solid Type	
Neutral		Condenser Type	
Dimension (Approx.)			
Height	(mm)	9500	
Width	(mm)	9000	
Depth	(mm)	6000	
Weight (Approx.)			
Cores and coils	(kg)	122000	206000 122000 84,000 kg
Total assembled with oil	(kg)	206000	
Insulating oil			
Quantity	(litre)	44000	
Kind		Mineral Oil	
Manufacturer		Idemitsu Kosan Ltd.	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Bushing type current transformer — For HV Neutral bushing

Manufacturer		Fuji Electric Co., Ltd.	
CT ratio		500/5	-
Quantity		1	-
Burden	(VA)	40	-
Accuracy class		1.0	-
Over current strength		40	-
Over current constant	(>)	20	-

Cooler cubicle

Manufacturer		Fuji Electric Co., Ltd.
Type		Outdoor type
Dimension (Approx.)		
Height	(mm)	2300
Width	(mm)	1500
Depth	(mm)	1000
Weight (Approx.)	(kg)	400
Space heater		
Capacity	(VA)	200
Voltage	(V)	1ø 220VAC

Efficiency ... Excluding aux. losses.

Load	(%)	100	75	50	25
P.F 1.0		99.68	99.73	99.77	99.74
P.F 0.8		99.60	99.67	99.71	99.68

Losses (at rated condition)

No load loss	(kW)	140

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Full load loss	(kW)	800
Loss in auxiliary machine and apparatus	(kW)	26.8 (Excluding stand by)
Voltage regulation		
P.F 1.0	(%)	1.40
P.F 0.8 lagging	(%)	9.92
No load current	(%)	0.35
Impedance (at rated kVA base)		
Positive-phase sequence	(%)	15) at 294.2 MVA base
Zero-phase sequence	(%)	Approx. 13.5
Tolerance of voltage ratio (at rated tap)	within	± 0.5%

Continuous time of operation (at cooler shutdown) at Initial load 100%, amb. temp. 25°C

Load	(%)	100	75	50	25
Time	(min)	approx 40	90	140	240
Winding temperature	(°C)	Less than 105			
Insulated oil temperature	(°C)	Less than 100			

Degree of vacuum (at case)	(mmHg)	Approx. 2.0
Rating capacity on self cooled basis		0
Temperature rise limit		
Winding	(°C)	55
Oil	(°C)	50

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

1

2.2 AUXILIARY TRANSFORMER

Manufacturer		Fuji Electric Co., Ltd. or equivalent
Type		Oil immersed, outdoor
Rating		
Capacity	(kVA)	25000
Class of rating		Continuous
Voltage		
High ~~tebsuib~~ tension side	(kV)	16.5
Low tension side	(kV)	6.9
No load no voltage tap	(kV)	F17.325-F16.9125 -R16,5-F16,0875-F15,675
Frequency	(Hz)	50
Connection		
High tension side		Delta
Low tension side		Star
~~High~~ Low tension neutral		Transformer grounding
Impedance voltage (at rated kVA base)	(%)	10 at rated tap
Insulation class		
High tension side		Full Insulation
Low tension side		
Insulation level		
High tension side	(kV) BIL	150
Low tension side	(kV) BIL	60
Pressure test of tank	(kg/cm^2g)	~~Inform later~~ full vacuum Prot-13
Cooling equipment		
Number of radiator		14 + 1 (Stnad by)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Sound level	(dB(A))	75
Bushing		
Manufacturer		Fuji Electric Co., Ltd. or equivalent
Type		
High tension side		Solid
Low tension side		Solid
Neutral		Solid
Dimension (Approx.)		
Height	(mm)	5000
Width	(mm)	4800
Depth	(mm)	4000
Weight (Approx.)		
Cores and coils	(kg)	15000
Total assembled with oil	(kg)	39000
Insulating oil		
Quantity	(litre)	8800
Kind		Mineral Oil
Manufacturer		Idemitsu Kosan Ltd.
Bushing type current transformer		
Manufacturer		Fuji Electric Co., Ltd.
CT ratio		~~500/5~~ 1000/5A - 2000/5A
Quantity		~~1~~ 3 - 3
Burden	(VA)	40 - 40VA
Accuracy class		1.0 - 1.0
Over current strength	(>)	40 - 40

*10th Issue-1-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Over current constant (>)		20		20	
Efficiency					
Load	(%)	100	75	50	25
P.F 1.0		99.28	99.42	99.53	99.55
P.F 0.8		99.10	99.27	99.41	99.44
Losses					
No load loss	(kW)	18			
Full load loss	(kW)	164			
Voltage regulation					
P.F 1.0	(%)	1.16			
P.F 0.8 lagging	(%)	6.81			
No load current	(%)	0.5			
Impedance (at rated kVA base)					
Positive-phase sequence	(%)	10 at rated tap			
Zero-phase sequence	(%)	Approx. 9			
Tolerance of voltage ratio (at rated tap)					
	Within	± 0.5%			
Temperature rise limit					
Winding	(°C)	55			
Oil	(°C)	50			

Secondary Cubicle

Grounding transformer	
Manufacturer	MEIDEN OR FUJI
Type	DRY TYPE

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Rating			
Capacity		(kVA)	50
Voltage		(V)	4800/240
Class of rating		(min)	cont. for LT curcuit ~~5~~ **
Grounding resistor			
Manufacturer			MEIDEN OR FUJI
Type			GRID
Rating			
Resistance		(ohm)	1.0
Current		(A)	240
Class of rating		(min)	cont. for LT circuit ~~5~~ **
Disconnecting switch			
Manufacturer			MEIDEN OR FUJI
Type			SINGLE POLE
Rating			
Voltage		(V)	7200
Current		(A)	600
Surge absover			
Manufacturer			N.A.
Type			N.A.
Rating			N.A.
Cubicle (including grounding transformer, grounding resistor and disconnecting switch)			
Dimension (Approx.)	Height	(mm)	2350
	Width	(mm)	1000
	Depth	(mm)	1800

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*10th Issue-12
**15th Issue-36

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Tenderer's Data Sheet

KITSUI & CO., LTD.
(Tenderer's Name)

Weight (Approx.)	(kg)	1000	10th Issue-12
Space heater			
Capacity	(VA)	300	
Voltage	(V)	110	

2.3 STARTING TRANSFORMER

Manufacturer		Fuji Electric Co., Ltd. or Equivalent
Type		Oil immersed, outdoor
Rating		
Capacity	(kVA)	15000 (ONAN)/25000(ONAF)
Class of rating		Continuous
Voltage		
High tension side	(kV)	220
Low tension side	(kV)	6.9
On load voltage tap	(kV)	220KV±6 x 3.3KV, all full capacity tap.
Number of on load tap		13
Frequency	(Hz)	50
Connection		
High tension side		Star
Low tension side		Star
High tension neutral		Delta (embedded)
Impedance voltage (at rated capacity)	(%)	10 at rated tap, 25MVA base
Insulation class		
High tension side		Graded insulation
low tension side		Full insulation

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Insulation level			
High tension side	KV (kW)	BIL	Neutral 1050/650
Low tension side	KV (kW)	BIL	60/60
Pressure test of tank	(kg/cm^2g)		1.0 at bottom of Tank
Cooling equipment			
Number of radiator			11 + 1 (Stand by)
Cooler cubicle			
Manufacturer			MEIDEN or Fuji Electric Co., Ltd.
Type			Outdoor type
Dimension (Approx.)			
Height	(mm)		1500
Width	(mm)		1000
Depth	(mm)		800
Weight (Approx.)	(kg)		300
Space heater			200
Capacity	(VA)		
Voltage	(V)		1φ 220V
Sound level	(dB(A))		76
Bushing			
Manufacturer			NGK/Fuji Electric
Type			
High tension side			Condenser
Low tension side			Solid
Neutral			Condenser
Dimension (Approx.)			
Height	(mm)		7500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Width	(mm)	6500
Depth	(mm)	4500
Weight (Approx.)		
Cores and coils	(kg)	19000
Total assembled with oil	(kg)	50000
Insulation oil		
Quantity	(litre)	16200
Kind		Mineral oil
Manufacturer		Idemitsu Kosan Ltd.
Bushing type current transformer		
Manufacturer		Fuji Electric Co., Ltd. or Equivalent
CT ratio		20/5A
Quantity		1
Burden	(VA)	40
Accuracy class		1.0
Over current strength		40
Over current constant	(>)	10

Efficiency

Load (%)	100	75	50	25
P.F 1.0	99.25	99.39	99.50	99.51
P.F 0.8	99.06	99.24	99.38	99.39

Losses

No load loss	(kW)	20
Full load loss	(kW)	170 at 25MVA, rated tap.

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Loss in auxiliary machines and apparatus	(kW)	3.0 (Excluding Stand by)
Voltage regulation		
P.F 1.0	(%)	1.18
P.F 0.8 lagging	(%)	6.83
No load current	(%)	0.6
Impedance (at rated kVA base)		
Positive-phase sequence	(%)	10) At) 25MVA base.
Zero-phase sequence	(%)	Approx. 9.0
Tolerance of voltage ratio (at rated tap)	Within	± 0.5
Temperature rise limit		
Winding	(°C)	55
Oil	(°C)	50

Secondary Cubicle

Grounding transformer		
Manufacturer		MEIDEN OR FUJI ELECTRIC CO., LTD.
Type		DRY TYPE
Rating		
Capacity	(kVA)	50
Voltage	(V)	4800/240
Class of rating	(min)	5
Grounding resistor		
Manufacturer		MEIDEN OR HITACHI
Type		GRID

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Rating			
Resistance		(ohm)	1.0
Current		(A)	240
Class of rating		(min)	5
Disconnecting switch			
Manufacturer			MEIDEN or FUJI ELECTRIC
Type			SINGLE POLE
Rating			
Voltage		(V)	7200
Current		(A)	600
Surge absover			
Manufacturer			NA
Type			NA
Rating			NA
Cubicle (including grounding transformer, grounding resistor and disconnecting switch)			
Dimension	Height	(mm)	2350
	Width	(mm)	1000
	Depth	(mm)	1800
Weight (Approx.)		(kg)	1000
Space heater			
Capacity		(VA)	300
Voltage		(V)	110

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3. METAL CLAD SWITCHGEAR

3.1 6,600 V METAL CLAD SWITCHGEAR

		Unit No. 1	No. 1 Common
Manufacturer		MEIDEN OR FUJI ELECTIRC	
Stationary structure		DOUBLE STAGE	DOUBLE STAGE
Type		METAL ENCLOSED	METAL ENCLOSED
Number of unit			
Incoming, Bus tie		2	2
Feeder		26	7
Potential transformer		1	1
Surge absorber		~~24~~ 3	~~0~~ 3
Rating			
Voltage	(V)	6600	6600
Current	(A)	2200	2200
Quality of the bus conductor material		COPPER	COPPER
Dimension of completely assembled switchgear		For Incoming and Bus tie	For Feeder
Height	(mm)	2500	2500
Width	(mm)	11450	4050
Depth	(mm)	2300	2300
Weight of completely assembled switchgear (Approx.)	(kg)	18000	6000
Space heater			
Capacity	(VA)	7000	2400
Voltage	(V)	220	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Vacuum circuit breaker

		For Incoming and Bus tie	For Feeder
Type		DRAW-OUT	DRAW-OUT
Rating			
Voltage	(V)	7200	7200
Current	(A)	2000	600
Interrupting capacity	(kA)	31.5	31.5
Short time current	(kA)	31.5	31.5
Short time capability	(min)	0.033	0.033
Interrupting time	(sec)	0.06	0.06
Recovery voltage	(kV)	12.4	12.4
Opening time	(sec)	0.04	0.04
No load closing time	(sec)	0.1	0.1
Control voltage	(V)	220	220
Tripping voltage	(V)	220	220
Class of insulation		BIL 60KV	BIL 60KV
Standard operating duty		CO-15S-CO	CO-15S-CO
Weight	(kg)	195	195

3.2 400 V POWER CENTER

Manufacturer		MEIDEN or FUJI ELECTRIC	
Cubicle		Unit No. 1	No. 1 Common
Type		METAL ENCLOSED	METAL ENCLOSED
Number of unit		After contract	
Incoming, Bus tie		2	2
Feeder		12	6

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Unit No. 1	No. 1 Common
Potential transformer		1	1
Rating			
Voltage	(V)	600	600
Current	(A)	5000	2000
Quality of the bus conductor		COPPER	COPPER
Dimension of completely assembled switchgear (including transformer cubicle)			
Height	(mm)	Max. 3500/2300	2300
Width	(mm)	9700	5600
Depth	(mm)	Max. 2000/1600	1600
Weight (including transformer and breakers) (Approx.)	(kg)	18000	8000
Space heater			
Capacity	(VA)	1600	1000
Voltage	(V)	220	220
Transformer			
Manufacturer		FUJI ELECTRIC	FUJI ELECTRIC
Type		DRY	DRY
Rating			10th Issue-15 15th Issue-37
Capacity	(kVA)	3000	3000 ~~750~~
Class of rating		BIL 60KV	BIL 60KV
Voltage			
High tension side	(V)	6600	6600
Low tension side	(V)	400	400

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		For Unit No. 1	For No. 1 Common
No-load no-voltage tap	(V)	7100-6930-6760 6600-6430-6270	7100-6930-6760 6600-6430-6270
Frequency	(Hz)	50	50
Connection			
Hightension side		DELTA	DELTA
Lov tension side		DELTA	DELTA
Impedance voltage (at rated kVA)	(%)	12	5
Insulation class		B	B
Dimension (Approx.)			
Height	(mm)	2500	1600
Width	(mm)	2650	1850
Depth	(mm)	1150	850
Weight	(kg)	7000	2000

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Air circuit breaker		For Incoming Bus tie	For Feeder
Type		DRAW-OUT	DRAW-OUT
Rating			
Voltage	(V)	660	660
Current	(A)	5000	600
Interrupting capacity	(kA)	40	40
Short time current	(kA)	40	40
Opening time	(sec)	0.04	0.04
Control voltage	(V)	220	220
Weight	(kg)	350	70

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.3 400 V CONTROL CENTER

		400V 1-1A C/C	400V 1-2A C/C
		MEIDEN OR FUJI ELECTRIC	
Manufacturer			
Type		DRAW OUT TYPE	DRAW OUT TYPE
Rating			10th Issue-16
Voltage	(V)	600	600
Main bus current	(A)	600	600
Branch bus current	(A)	400	400
Quality of the bus conductor		COPPER	COPPER
Dimension (Approx.)			
Height	(mm)	2300	2300
Width	(mm)	9000	8200
Depth	(mm)	500	500
Weight (Approx.)	(kg)	4500	4000
Space heater			
Capacity	(VA)	2400	2080
Voltage	(V)	220	220

		400V 1-1B C/C	400V 1-2B C/C
		MEIDEN OR FUJI ELECTRIC	
Manufacturer			
Type		DRAW OUT	DRAW OUT
Rating			
Voltage	(V)	600	600
Main bus current	(A)	600	600
Branch bus current	(A)	400	400
Quality of the bus conductor		COPPER	COPPER

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		400V 1-1B C/C	400V 1-2B C/C
Dimension (Approx.)			
Height	(mm)	2300	2300
Width	(mm)	1200	4800
Depth	(mm)	500	500
Weight (Approx.)	(kg)	600	2400
Space heater			
Capacity	(VA)	320	1280
Voltage	(V)	220V	220V

		400V 1-3 C/C	400V Common No. 1 C/C
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		SM900	SM900
Rating			
Voltage	(V)	600	600
Main bus current	(A)	600	600
Branch bus current	(A)	400	400
Quality of the bus conductor		COPPER	COPPER
Dimension			
Height	(mm)	2300	2300
Width	(mm)	4200	3600
Depth	(mm)	500	500
Weight	(kg)	2100	1800
Space heater			
Capacity	(VA)	1120	960
Voltage	(V)	220	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Central control room air conditioner C/C

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		DRAW OUT TYPE
Rating		
Voltage	(V)	600
Main bus current	(A)	600
Branch bus current	(A)	400
Quality of the bus conductor		COPPER
Dimension		
Height	(mm)	2300
Width	(mm)	1200
Depth	(mm)	500
Weight	(kg)	600
Space heater		
Capacity	(VA)	320
Voltage	(V)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.4. WATER TREATMENT SWITCHGEAR

3.4.1 400 V POWER CENTER

(1) 400 Volt Power Center

		No. 1 P/C	No. 2 P/C
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Cubicle			
Type		METAL ENCLOSED	METAL ENCLOSED
Number of unit		After contract	
Incoming, Bus tie		1	1
Feeder		3	3
Potential transformer		1	1
Rating			
Voltage	(V)	600	600
Current	(A)	1200	1200
Quality of the bus conductor		COPPER	COPPER
Dimension of completely assembled switchgear (including transformer cubicle)			
Height	(mm)	2300	2300
Width	(mm)	4200	4200
Depth	(mm)	1600	1600
Weight (including transformer and breakers) (Approx.)	(kg)	6000	6000
Space heater			
Capacity	(VA)	640	640
Voltage	(V)	220	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 P/C	No. 2 P/C
Air Circuit Breaker			
Type		DRAW-OUT	DRAW-OUT
Rating			
Voltage	(V)	660	660
Current	(A)	1600/600	1600/600
Interrupting capacity	(kA)	40	40
Short time current	(kA)	40	40
Opening time	(sec)	0.04	0.04
Control voltage	(V)	220	220
Weight	(kg)	82/76	82/76
(2) Transformer			
Manufacturer		MEIDEN, FUJI ELECTRIC	OR EQUIVALENT
Type		DRY	DRY
Rating			
Capacity	(KVA)	500	500
Class of rating		CONTINUOUS	CONTINUOUS
High tension side	(V)	6600	6600
Low tension side	(V)	400	400
No load no voltage tap	(V)	6930-6760-6600 -6430-6270	6930-6760-6600 -6430-6270
Frequency	(Hz)	50	50
Connection			
High tension side		DELTA	DELTA
Low tension side		DELTA	DELTA

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Tender's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 P/C	No. 2 P/C
Impedance voltage (at rated KVA)	(%)	5	5
Insulation class		B	B
Dimension (Approx.)			
Height	(mm)	1400	1400
Width	(mm)	1650	1650
Depth	(mm)	800	800
Weight (Approx.)	(kg)	1700	1700

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3.4.2 400V CONTROL CENTER

		No. 1 C/C	No. 2 C/C
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		DRAW OUT	DRAW OUT
Rating			
Voltage	(V)	600	600
Main bus current	(A)	600	600
Branch bus current	(A)	400	400
Quality of the bus conductor		COPPER	COPPER
Dimension			
Height	(mm)	2300	2300
Width	(mm)	1800	1800
Depth	(mm)	500	500
Weight	(kg)	900	900

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 C/C	No. 2 C/C
Space heater			
Capacity	(VA)	480	480
Voltage	(V)	220	220

3.4.3 DISTRIBUTION PANEL

		No. 1 C/C	No. 2 C/C
(1) Panel			
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		METAL ENCLOSED TYPE	
Thickness of steel plate	(mm)	2.3	2.3
Rating			
Voltage	(V)	220	220
Phase and wire		3	3
Bus current	(A)	300	300
Molded type air circuit breaker			
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Numbers		1 set	1 set
Rating	(V, A)	550V, 50A	550V, 50A
(2) Transformer			
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		DRY	DRY
Rating			
Capacity	(kVA)	10	10
Voltage			
High tension side	(V)	380	380
Low tension side	(V)	220	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 C/C	No. 2 C/C
No load no voltage tap	(V)	400-380-360	400-380-440
Insulation class		H ~~Test voltage AC2.5 KV~~	H
Dimension (Approx.)			
Height	(mm)	2350	2350
Width	(mm)	600 ~~Inform later~~	600
Depth	(mm)	500 ~~Inform later~~	500
Weight (including transformer cubicle) (Approx.)	(kg)	400 ~~Inform later~~	400
Space heater			
Capacity	(VA)	500	500
Voltage	(V)	220	220

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3.4.4 DC 220V DISTRIBUTION PANEL

For water treatment

(1) Panel

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		METAL ENCLOSED
Thickness of steel plate	(mm)	2.3
Rating		
Voltage	(V)	250
Phase and wire		2
Bus current	(A)	600
Molded type air circuit breaker		
Manufacturer		MEIDEN OR FUJI ELECTRIC
Numbers		1 set
Rating	(V, A)	550V, 50A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.4.5 BATTERY AND BATTERY CHARGER

(1) Battery

For water treatment

Manufacturer		Furukawa electric or Equivalent
Type		Lead Acid
Mounting method		Rack
Rating		
Voltage	(V)	220
Capacity (at 10 hour)	(Ah)	~~2000~~ 100 *
Number of unit cell		110
Nominal voltage of cell	(V)	2.0
Nominal floating voltae	(V)	~~1.8~~ 2.15 *
Maximum discharge current	(A)	800
Specific gravity of electrolyte at when full charged		1.215 ± 0.005(at 20°C)
Maximum temperature at electrolyte	(°C)	45 °C
Volume of electrolyte per cell	(litre)	~~After contract~~ 2.2
Dimension		
Height	(mm)	230
Width	(mm)	135
Depth	(mm)	155
Weight		
Cell (including electrolyte)	(kg)	8

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

For water treatment

Total (including mounting structure and conductor)	(kg)	~~After contract~~ 1100*

(2) Rectifier

Manufacturer		Furukawa Electric or equivalent
Type		Thyristor
Rectification system		3 Phase full wave rectifiring
Cooling system		Self Air Cooled
Rating		
Input (AC side)		
Frequency	(Hz)	50
Frequency fluctuation range	(with in Hz)	± 2.5 Hz * ~~After contract~~
Voltage	(V)	380
Voltage fluctuation range	(with in V)	~~After contract~~ ±57*
Power factor	(More than %)	70*
Output (DC side)		
Set voltage		
Floating	(V)	220
Equalizing	(V)	250
Voltage adjustment range		
Floating	(V)	210 - 240
Equalizing	(V)	240 - 270
Stage voltage in voltage adjustment		200 - 320

* Prot-13

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.5 PRE AND WASTE WATER TREATMENT SWITCHGEAR

3.5.1 400V POWER CENTER

(1) 400 V Power Center

		No. 1 P/C	No. 2 P/C
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Cubicle			
Type		METAL ENCLOSED	METAL ENCLOSED
Number of unit		5	5
Incoming, Bus tie		1	1
Feeder		2	2
Potential transformer		1	1
Rating			
Voltage	(V)	600	600
Current	(A)	1200	1200
Quality of the bus conductor		COPPER	COPPER
Dimension of completely assembled switchgear (including transformer cubicle)			
Height	(mm)	2300	2300
Width	(mm)	3600	3600
Depth	(mm)	1600	1600
Weight (including transformer and breakers) (Approx.)	(kg)	5000	5000
Space heater			
Capacity	(VA)	480	480
Voltage	(V)	220	220
Air circuit breaker			
Type		DRAW-OUT	DRAW-OUT

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 P/C	No. 2 P/C
Rating			
Voltage	(V)	660	660
Current	(A)	1600/600	1600/600
Interrupting capacity	(kA)	65/40	65/40
Short time current	(kA)	50/40	50/40
Opening time	(sec)	0.04	0.04
Control voltage	(V)	220	220
Weight	(kg)	82/76	82/76
(2) Transformer			
Manufacturer		MEIDEN, FUJI ELECTRIC OR EQUIVALENT	
Type		DRY	DRY
Rating			
Capacity	(kVA)	500	500
Class of rating		CONTINUOUS	CONTINUOUS
Voltage			
High tension side	(V)	6600	6600
Low tension side	(V)	400	400
No load no voltage tap	(V)	6930-6760-6600 -6420-6270	6930-6760-6600 -6430-6270
Frequency	(Hz)	50	50
Connection			
High tension side		DELTA	DELTA
Low tension side		DELTA	DELTA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 P/C.	No. 2 P/C
Impedance voltage (at rated kVA)	(%)	5	5
Insulation class		B	B 10th Issue-20
Dimension (Approx.)			
Height	(mm)	1400	1400
Width	(mm)	1650	1650
Depth	(mm)	800	800
Weight (Approx.)	(kg)	1700	1700

3.5.2 400V CONTROL CENTER

		No. 1 C/C	No. 2 C/C
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		DRAWOUT 10th Issue-21	DRAWOUT
Rating			
Voltage	(V)	600	600
Main bus current	(A)	600	600
Branch bus current	(A)	400	400
Quality of the bus conductor		COPPER	COPPER
Dimension			
Height	(mm)	2300	2300
Width	(mm)	3600	3600
Depth	(mm)	500	500
Weight	(kg)	1800	1800
Space heater			
Capacity	(VA)	960	960
Voltage	(V)	220	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.5.3 DISTRIBUTION PANEL

		No. 1 D/P	No. 2 D/P
(1) Panel			
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		METAL ENCLOSE	
Thickness of steel plate	(mm)	2.3	2.3
Rating			
Voltage	(V)	220	220
Phase and wire		~~2~~ 3φ4W	~~2~~ 3φ4W
Bus current	(A)	300	300
Molded type air circuit breaker			
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Numbers		1 set	1 set
Rating	(V, A)	550V, 50A	550V, 50A
(2) Transformer			
Manufacturer		MEIDEN OR FUJI ELECTRIC	
Type		DRY	DRY
Rating			
Capacity	(kVA)	10	10
Voltage			
High tension side	(V)	380	380
Low tension side	(V)	220	220
No load no voltage tap	(V)	400-380-360	
Insulation class		H ~~After contract~~	H

10th Issue-22

10th Issue-23

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		No. 1 D/P	No. 2 D/P
Dimension (Approx.)			
Height	(mm)	2350	2350
Width	(mm)	2000	2000
Depth	(mm)	800	800
Weight (including transformer cubicle) (Approx.)	(kg)	1000	1000
Space heater			
Capacity	(VA)	500	500
Voltage	(V)	220	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.6 FUEL OIL SYSTEM SWITCHGEAR

3.6.1 400 V POWER CENTER

(1) 400 Volt Power Center

Manufacturer		MEIDEN OR FUJI ELECTRIC
Cubicle		
Type		METAL ENCLOSED
Number of unit		~~After contract~~ 1 Prot-13
Incoming, Bus tie		1
Feeder		2 10th Issue-24
Potential transformer		1
Rating		
Voltage	(V)	600
Current	(A)	1200
Quality of the bus conductor		COPPER
Dimension of completely assembled switchgear (including transformer cubicle)		
Height	(mm)	2300
Width	(mm)	3600
Depth	(mm)	1600
Weight (including transformer and breakers) (Approx.)	(kg)	4000
Space heater		
Capacity	(VA)	480
Voltage	(V)	220

S. Ukita

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Air Circuit Breaker		
Type		DRAW-OUT
Rating		
Voltage	(V)	600
Current	(A)	1600/600
Interrupting capacity	(kA)	65/40
Short time current	(kA)	50/40
Opening time	(sec)	0.04
Control voltage	(V)	220
Weight	(kg)	82/76
(2) Transformer		
Manufacturer		MEIDEN or FUJI ELECTRIC
Type		DRY
Rating		
Capacity	(kVA)	300
Class of rating		CONTINUOUS
Voltage		
High tension side	(V)	6600
Low tension side	(V)	400
No load no voltage tap	(V)	6930-6760-6600-6430-6270
Frequency	(Hz)	50
Connection		DELTA
High tension side		
Low tension side		DELTA

S. Iwata

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Impedance voltage (at rated kVA)	(%)	
Insulation class		B 10th Issue-25
Dimension (Approx.)		
Height	(mm)	1300
Width	(mm)	1500
Depth	(mm)	750
Weight (Approx.)	(kg)	1350

3.6.2 400V CONTROL CENTER

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		Drawout
Rating		
Voltage	(V)	600
Main bus current	(A)	600
Branch bus current	(A)	400
Quality of the bus conductor		COPPER
Dimension		
Height	(mm)	2300
Width	(mm)	1800
Depth	(mm)	500
Weight	(kg)	900
Space heater		
Capacity	(VA)	480
Voltage	(V)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.6.3 DISTRIBUTION PANEL

(1) Panel

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		METAL ENCLOSED
Thickness of steel plate	(mm)	2.3
Rating		
Voltage	(V)	110
Phase and wire		~~2~~ 3φ4W 10th Issue-26
Bus current	(A)	400
Molded type air circuit breaker		
Manufacturer		MEIDEN OR FUJI ELECTRIC
Numbers		1 set
Rating	(V, A)	550V, 100A

(2) Transformer

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		DRY
Rating		
Capacity	(kVA)	10
Voltage		
High tension side	(V)	380
Low tension side	(V)	220
No load no voltage tap	(V)	400-380-360
Insulation class		~~After contract~~ H 10th Issue-27

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension (Approx.)		
Height	(mm)	2350
Width	(mm)	1200
Depth	(mm)	800
Weight (including transformer cubicle) (Approx.)	(kg)	1200
Space heater		
Capacity	(VA)	500
Voltage	(V)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.7 INTAKE WATER FACILITY SWITCHGEAR

3.7.1 CURRENT LIMITING REACTOR

Manufacturer		
Type		
Rating		
Voltage	(V)	
Current	(A)	
Reactance	(mH)	N.A.
Quality of the bus conductor		Reason
Dimension (Approx.)		Circuit breakers for Intake water facility
Height	(mm)	have sufficient
Width	(mm)	interupting capacity
Depth	(mm)	
Weight (Approx.)	(kg)	
Space heater		
Capacity	(VA)	
Voltage	(V)	

3.7.2 TRANSFORMER

(1) Transformer

Manufacturer		MEIDEN, FUJI ELECTRIC OR EQUIVALENT
Type		DRY
Rating		
Capacity	(kVA)	300
Class of rating		CONTINUOUS

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Voltage		
High tension side	(V)	6600
Low tension side	(V)	400
No load no voltage tap	(V)	6930-6760-6600-6430-6270
Frequency	(Hz)	50
Connection		
High tension side		DELTA
Low tension side		DELTA
Impedance voltage (at rated kVA)	(%)	5
Insulation class		B
Dimension (Approx.)		
Height	(mm)	1300
Width	(mm)	1500
Depth	(mm)	750
Weight (Approx.)	(kg)	1350
Dimension (Approv.)		
Height	(mm)	2300
Width	(mm)	4800
Depth	(mm)	1600
Weight (including transformer cubicle)	(kg)	6000
Space heater		
Capacity	(VA)	800
Voltage	(V)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.7.3 400V CONTROL CENTER

Manufacturer		FUJI ELECTRIC
Type		SM900
Rating		
Voltage	(V)	600
Main bus current	(A)	600
Branch bus current	(A)	400
Quality of the bus conductor		COPPER
Dimension		
Height	(mm)	2300
Width	(mm)	1200
Depth	(mm)	500
Weight	(kg)	600
Space heater		
Capacity	(VA)	320
Voltage	(V)	220

3.7.4 DISTRIBUTION PANEL

(1) Panel

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		METAL ENCLOSED
Thickness of steel plate	(mm)	2.3
Rating		10th Issue-29
Voltage	(V)	~~220~~ 380-220V
Phase and wire		~~2~~ 3φ4W
Bus current	(A)	300

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Molded type air circuit breaker

Manufacturer		MEIDEN OR FUJI ELECTRIC
Numbers		1 set
Rating	(V, A)	550V, 50A

(2) Transformer

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		DRY
Rating		
Capacity	(kVA)	10
Voltage		
High tension side	(V)	380
Lov tension side	(V)	220
No load no voltage tap	(V)	400-380-360
Insulation class		~~After contract~~ H

Prot-13

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.8 DC 220 V CONTROL CENTER .

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		METAL ENCLOSED
Rating		
Voltage	(V)	DC220
Main bus current	(A)	400
Branch bus current	(A)	200
Quality of the bus conductor		COPPER
Dimension		
Height	(mm)	2350
Width	(mm)	1800
Depth	(mm)	600
Weight	(kg)	1500
Space heater		
Capacity	(VA)	600
Voltage	(V)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3.9 CVCF

		For computer	For control
Manufacturer		FUJI ELECTRIC OR EQUIVALENT	
Type		TRANSISTOR	TRANSISTOR
Rating input voltage (DC)	(V)	220	220
- ditto - (AC)	(V)	400	400
Output voltage	(V)	110	110
Voltage regulation	(±%)	5	5
Frequency regulation	(±%)	1	1
Cooling type		FAN	FAN
Dimension of completely assembled (Approx.)			
Height	(mm)	2350	2350
Width	(mm)	3000	3000
Depth	(mm)	1500	1500
Weight of completely assembled (Approx.)	(kg)	3000	3000

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

4. PANEL AND BOARD

4.1 BTG BOARD

Manufacturer		Fuji Electric
Type		Indoor, drip-proof, bench board
Thickness of steel plate	(mm)	4.5/3.2/1.6
Dimension		
Height	(mm)	2,350
Width	(mm)	6,000
Depth	(mm)	2,900
Weight (Approx.)	(kg)	9,000
Accessories		
Meter		

Kind x Number	GEN.Wx1	GEN.VARx1	GEN.Ax1
Type	SW	Type	
Accuracy class	1.5	1.5	1.5
Manufacturer	FUJI ELECTRIC CO., LTD.		

Kind x Number	GEN.Vx1	GEN.Fx1	SY.Vx2
Type	SW type		
Accuracy class	1.5	1.5	1.5
Manufacturer	FUJI ELECTRIC CO., LTD.		

Kind x Number	SY.Fx2	FIELD. Ax1	FIELD.Vx1
Type	SW type		
Accuracy class	1.5	1.5	1.5
Manufacturer	FUJI ELECTRIC CO., LTD.		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Kind x Number	CWP.Ax3	CP.Px3	ROP.Ax3
Type	SW type		
Accuracy class	1.5	1.5	1.5
Manufacturer	FUJI ELECTRIC CO., LTD.		
Kind x Number	220KV.Vx2	GFR.Ax2	6.9KV.Ax2
Type	SW type		
Accuracy class	1.5	1.5	1.5
Manufacturer	FUJI ELECTRIC CO., LTD.		
Kind x Number	6.9Kv.Vx2	400V.Ax2	400V.Vx2
Type	SW type		
Accuracy class	1.5	1.5	1.5
Manufacturer	FUJI ELECTRIC CO., LTD.		
Kind x Number	BFP.Ax3	FDF.Ax2	POS.INDIx1
Type	SW type		
Manufacturer	FUJI ELECTRIC CO., LTD.		
Kind x Number	GEN.PFx1	SYNCHROx1	BALANCExl
Type	SW type		
Manufacturer	FUJI ELECTRIC CO., LTD.		
Kind x Number	PURITYx1	GEN.WHx1	6.9Kv.WHx4
Type	D16 type		
Manufacturer	FUJI ELECTRIC CO., LTD.		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Protection relay

Kind x Number	87G1x3	44G1x3	46G1x1	
Type	DQ type			
Manufacturer	FUJI ELECTRIC CO., LTD.			
Kind x Number	40G1x1	64G1x1	60G1x1	
Type	DQ type			
Manufacturer	FUJI ELECTRIC CO., LTD.			
Kind x Number	87GT1x3	V/Fx1	91H1x1 91L1x1	*
Type	DQ type			
Manufacturer	FUJI ELECTRIC CO., LTD.			
Kind x Number	87AT1x3 87ST1x3	51N-MT1x1 51N-ST1x1	51AT1x3 51ST1x3	
Type	DQ type			
Manufacturer	FUJI ELECTRIC CO., LTD.			
Kind x Number	64AT1x1 64ST1x1	86G1x1, 86GT1x1, 25		*
Type	DQ type			
Manufacturer	FUJI ELECTRIC CO., LTD.			

Recorder

Kind x Number	MWx1	TRENDx3	FRx3
Type	PFA	PFA	PFA
Accuracy class	±0.5%	±0.5%	±0.5%
Manufacturer	Fuji Electric		

*10th Issue-30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Kind x Number	PRx1	TRx1	Othersx1
Type	PFA	PFA	PFA
Accuracy class	±0.5%	±0.5%	±0.5%
Manufacturer	Fuji Electric		
Kind x Number			
Type			
Accuracy class			
Manufacturer			
Kind x Number			
Type			
Accuracy class			
Manufacturer			

Operation recorder

Kind x Number	OPRx1		
Type	AP-902A		
Accuracy class	1 mS		
Manufacturer	KUWANO ELECTRIC		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

4.2 DISTRIBUTION PANEL

		220V No.1 Normal Emergency	110V No.1 Instrument Power
(1) Panel			
Manufacturer		Meiden or Fuji Electric	
Type		Metal Enclosed	Metal Enclosed
Thickness of steel plate	(mm)	2.3	2.3
Rating			
Voltage	(V)	220	110
Phase and wire		2	2
Bus current	(A)	300	300
Molded type air circuit breaker			
Manufacturer		Meiden or Fuji Electric	
Numbers		1 set	1 set
Rating	(V, A)	550V, 50A	550V, 50A
(2) Transformer			
Manufacturer		Meiden or Fuji Electric	
Type		Dry	Dry
Rating			
Capacity	(kVA)	10	10
Voltage			
High tension side	(V)	380	380
Low tension side	(V)	220	110
No load no voltage tap	(V)	400-380-360	
Insulation class		H ~~After contract~~	H

10th Issue-31

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension (Approx.)			
Height	(mm)	2350	2350
Width	(mm)	2000	2000
Depth	(mm)	800	800
Weight (including transformer cubicle) (Approx.)	(kg)	1000	1000
Space heater			
Capacity	(VA)	500	500
Voltage	(V)	220	220

(1) Panel — DC 220V No. 1 D/P

Manufacturer		Meiden or Fuji Electric
Type		Metal Enclosed
Thickness of steel plate	(mm)	2.3
Rating		
Voltage	(V)	220
Phase and wire		2
Bus current	(A)	300
Molded type air circuit breaker		
Manufacturer		Meiden or Fuji Electric
Number		1 set
Rating	(V, A)	250v, 50A
Dimension (Approx.)		
Height	(mm)	2350
Width	(mm)	2000
Depth	(mm)	800

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight (including transformer cubicle) (Approx.)	(kg)	1000
Space heater		
Capacity	(VA)	500
Voltage	(V)	220

(1) Panel		200V No.1 Lighting D/P	380V-220V Misc. Power D/P
Manufacturer		Meiden or Fuji Electric	
Type		Metal Enclosed	
Thickness of steel plate	(mm)	2.3	2.3
Rating			
Voltage	(V)	220	380 - 220
Phase and wire		2	2
Bus current	(A)	300	300
Molded type air circuit breaker			
Manufacturer		Meiden or Fuji Electric	
Number		1 set	1 set
Rating	(V, A)	550V, 50A	550V, 50A

(2) Transformer		
Manufacturer	Meiden or Fuji Electric	
Type	Dry	Dry
Rating		
Capacity (kVA)	10	10
Voltage		
High tension side (V)	380	380

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		200 V No. 1 Lighting D/P	380 V 220 V Misc. Power D/P
Low tension side	(V)	220	380 - 220
No load no voltage tap	(V)	400-380-360	
Insulation class		H	H
~~Test voltage AC2.5 KV~~			
Dimension (Approx.)			
Height	(mm)	2350	2350
Width	(mm)	2000	2000
Depth	(mm)	800	800
Weight (including transformer cubicle) (Approx.)	(kg)	1000	1000
Space heater			
Capacity	(VA)	500	500
Voltage	(V)	220	220

10th Issue-32

Laboratory D/P

(1) Panel

Manufacturer		Meiden or Fuji Electric
Type		Metal Enclosed
Thickness of steel plate	(mm)	2.3
Rating		
Voltage	(V)	~~After contract~~ 380-110V */**
Phase and wire		~~2~~ 3φ4W *
Bus current	(A)	300

*10th Issue-33

**16th Issue-1.

S. Uchida

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Molded type air circuit breaker

Manufacturer		Meiden or Fuji Electric
Number		1 set
Rating	(V, A)	550V, 50A

(2) Transformer

Manufacturer		Meiden or Fuji Electric
Type		Dry
Rating		
Capacity	(kVA)	10
Voltage		
High tension side	(V)	380
Low tension side	(V)	220 V
No load no voltage tap	(V)	400-380-360
Insulation class		~~4 KV~~ H
Dimension (Approx.)		
Height	(mm)	2350
Width	(mm)	2000
Depth	(mm)	800
Weight (including transformer cubicle)	(kg)	1000
Space heater		
Capacity	(VA)	500
Voltage	(V)	220

10th Issue-34

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

4.3 AUXILIARY CONTROL PANEL

Manufacturer		Fuji Electric		
Type		Indoor, Self-standing, Vertical		
Thickness of steel plate	(mm)	3.2/1.6		
Dimension				
Height	(mm)	2,350		
Width	(mm)	4,000		
Depth	(mm)	1,500		
Weight (Approx.)	(kg)	4,000		
Accessories				
Meter				
Kind x Number		PYx5	LYx3	Rx3
Type		PBA	PBA	PFA
Accuracy class		±1.0%	±1.0%	±1.0%
Manufacturer		Fuji Electric		
Kind x Number		TRx2	others	
Type		PGN	PGN	
Accuracy class		±0.5%	±0.5%	
Manufacturer		Fuji Electric		
Kind x Number				
Type				
Accuracy class				
Manufacturer				

10th Issue-35

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

4.4 AUXILIARY RELAY PANEL

Manufacturer		Fuji Electric
Type		Indoor, Self-slanding, Vertical
Thickness of steel plate	(mm)	3.2/1.6
Dimension (Approx.)		
Height	(mm)	2,350
Width	(mm)	5,000
Depth	(mm)	1,500
Weight (Approx.)	(kg)	5,000
Accessories		Internal lighting

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

4.5 TELE-CONTROL EQUIPMENT

Manufacturer		Fuji Electric
Rating		Indoor, Self-Standing drip-proof, metal-clad
Kind of tele-control system		~~Cyclic Method~~ 10th Issue-36
Number of signal		
Digital		~~14~~ 30
Analog		1
Type of control relay		~~After contract~~ transistorized type*
Control voltage	(mV)	~~After contract~~ 1 - 5V*
Cubicle		
Type		Metal Enclosed
Thickness of steel plate	(mm)	2.3
Dimension (Approx.)		
Height	(mm)	2350
Width	(mm)	600
Depth	(mm)	800
Weight (Approx.)	(kg)	800
Accessories		

* Prot-13

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

5. EMERGENCY DIESEL ENGINE GENERATOR

5.1 GENERATOR

Manufacturer		FUJI ELECTRIC OR EQUIVALENT
Type		SCREEN-PROTECTED *
Rating		
Class of rating		CONT
Capacity	(kVA)	750
Power factor		0.85
Voltage	(V)	400
Current	(A)	1083
Frequency	(Hz)	50
Phase		3
Pole		4
Connection		Wye
Speed	(RPM)	1500
Insulation class		B
Excitation system		
Type		BRUSHLESS *
Automatic voltage regulator		TRANSISTOR TYPE
Over load capability at 110% Rated load	(hour)	1.0
Over speed capability	(%)	120
Dimension		
Height	(mm)	1285
Width	(mm)	1160
Depth	(mm)	1300

*10th Issue-37

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight	(kg)	2700

5.2 DIESEL ENGINE

Manufacturer		Mitsubishi, Yamaha Motor or Equivalen
Type		S12NPTA 10th Issue-38
Rating		
Output	(kW)	650
Speed	(RPM)	1500
Number of cylinder		12
Over load	(%)	10
Compression ratio		13.5
Combustion system		Direct-Injection
Over load capability at 110% Rated load	(hour)	1.0
Over speed capability	(%)	115
Starting system		Air
Automatic starting device		NA
Starting time from starting signal to full speed	(sec)	40
Kind of fuel		
Fuel tank capacity	(litre)	1000
Lubrication oil system		Self lubrication
Exhaust system		Silencer
Dimension		
Height	(mm)	2000
Width	(mm)	1400
Length	(mm)	2400

M. Yoneda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight	(kg)	4700
Diesel engine generator completely assembled		
Dimension		
Width	(mm)	1315
Length	(mm)	3100
GD^2 effect	($kg.m^2$)	-
Weight	(kg)	8500

5.3 CONTROL PANEL

		Diesel engine generator control panel	Auto. start panel
Manufacturer		FUJI ELECTRIC OR EQUIVALENT	
Type		METAL ENCLOSED	
Thickness of steel plate	(mm)	1.6, 2.3 or 3.2	
Dimension (Approx.)			
Height	(mm)	2350	2350
Width	(mm)	1000	1000
Depth	(mm)	2000	2000
Weight (Approx.)	(kg)	1000	1000
Space heater			
Capacity	(VA)	130	130
Voltage	(V)	220	220

H. Honda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

5.4 MAIN CIRCUIT AIR CIRCUIT BREAKER

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		AIR
Rating		
Voltage	(V)	660
Current	(A)	1600
Interrupting capacity	(kA)	50
Short time current	(kA)	45
Operating time	(sec)	0.15
Control voltage	(V)	DC220 ..
Molded type air circuit breaker		
Numbers		2
Rating	(V, A)	550V, 100A

5.5 AIR COMPRESSOR EQUIPMENT

Air compressor

Manufacturer		MITSUBISHI OR EQUIVALENT
Type		Vertical 2-stage
Number		1
Cylinder number		1
Stroke	(mm)	70
Speed	(RPM)	700
Capacity	(m^3/min at free air)	13
Suction pressure	(kg/cm^2g)	-

H. Maeda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Electric Motor

Manufacturer		FUJI ELECTRIC OR EQUIVALENT
Type		ENCLOSED TYPE WITH FAN
Class of rating		CONT.
Rating		
Output	(kW)	3.7
Voltage	(V)	~~220~~ 380 10th Issue-39
Frequency	(Hz)	50
Speed	(RPM)	1430
Vertical or horizontal		Vertical
Insulation class		B
Starting method		Direct
Dimension (Approx.)		
Height	(mm)	805
Width	(mm)	560
Depth	(mm)	830
Weight (including air compressor (Approx.)	(kg)	160

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Air Receiver

Manufacturer		MITSUBISHI OR EQUIVALENT
Type		-
Number		2
Capacity	(m^3)	300 x 2
Diameter	(mm)	534
Height	(mm)	1879
Design pressure	(kg/cm^2g)	30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

6. BATTERY AND BATTERY CHARGER

(1) Battery

Unit No. 1

Manufacturer		FURUKAWA OR EQUIVALENT
Type		Lead Acid
Mounting method		Rack
Rating		
Voltage	(V)	220
Capacity (at 10 hour)	(Ah)	2000
Number of unit cell		110
Nominal voltage of cell	(V)	2.0
Nominal floating voltage	(V)	~~2.0~~ 2.15
Maximum discharge current	(A)	800
Specific gravity of electrolyte at when full charged		1.215 ± 0.005 (at 20°C)
Maximum temperature of electrolyte	(°C)	45°C
Volume of electrolyte per cell	(litre)	37
Dimension		
Height	(mm)	800
Width	(mm)	300
Depth	(mm)	390
Weight		
Cell (including electrolyte)	(kg)	178

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Unit No. 1

Total (including mounting structure and conductor)	(kg)	~~AFTER CONTRACT~~ 23,000*

(2) Rectifier

Manufacturer		FURUKAWA OR EQUIVALENT
Type		THYRISTOR
Rectification system		THREE PHASE
Cooling system		SELF AIR COOLED
Rating		
Input (AC side)		
Frequency	(Hz)	50
Frequency fluctuation range	(With in Hz)	~~AFTER CONTRACT~~ ±2.5*
Voltage	~~(Hz)~~(V)	380
Voltage fluctuation range	V* (With in ~~Hz~~)	~~After contract~~ ±57*
Power factor	(More than %)	80*
Output (DC side)		
Set voltage		
Floating	(V)	220
Equalizing	(V)	250
Voltage adjustment range		
Floating	(V)	210 - 240
Equalizing	(V)	240 - 270
Stage voltage in voltage adjustment		200 - 320V

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Current	(A)	800
Set voltage accuracy		± 1% *
Dropping current (less than A)		880A *
Efficiency (at Full load) (More than %)		85 *
Counter cell		
Current	(A)	--After-contract-- 200 *
Cubicle		
Dimension (including rectifier)		
Height	(mm)	1900 *
Width	(mm)	1850 *
Depth	(mm)	915 *
Weight (including rectifier)	(kg)	850 *

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

7. COMMUNICATION

7.1 PAGING SYSTEM

(1) Amplifier Panel

Manufacturer		KO-ON DEMPA CO., LTD.OR EQUIVALENT
Type		APL-4015
Thickness of steel plate	(mm)	1.6mm
Rating		
Output	(W)	100W x 15 set : 1500W
Frequency characteristics	(Hz)	300 - 6000
S/N ratio	(dB)	40
Input impedance	(ohm)	600
Output impedance	(ohm)	100W : 100Ω
Dimension		
Height	(mm)	2050mm/set x 3 sets
Width	(mm)	700mm/set x 3 sets
Depth	(mm)	400mm/set x 3 sets
Weight (Approx.)	(kg)	300kg/set x 3 sets

(2) Power Source Panel

Manufacturer		HONDA DENKI CO., LTD. OR EQUIVALENT
Type		DA302LP
Thickness of steel plate	(mm)	2.3 mm
Rated voltage		
Input	(V)	AC 380V, DC 220V
Output	(V)	AC 100V

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Molded type air circuit breaker

Number		1 set
Rating	(V, A)	OUTPUT AC100V, 3KVA
Dimension		
Height	(mm)	2050 mm
Width	(mm)	800 mm
Depth	(mm)	700 mm
Weight (Approx.)	(mm)	350 kg

(3) Hand Set

Manufacturer		KO-ON DEMPA CO., LTD. OR EQUIVALENT
Type		Hand set type
Number		
Outdoor wall supporting type		PH-123E H-8C x 25
Outdoor self standing type		PH-123E H-8D x 26
Indoor desk type		PC-123ES x ~~40~~ 40 3 10th Issue-41
Indoor type		OUTDOOR WALL / OUTDOOR SELF STANDING
Dimension		
Height	(mm)	500 mm / 1500 mm
Width	(mm)	450 mm / 450 mm
Depth	(mm)	205 mm / 300 mm
Weight	(kg)	15 kg / 30 kg

(4) Speaker

Manufacturer		KO-ON DEMPA CO., LTD. OR EQUIVALENT
Type		HORNTYPE : CONE TYPE

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Number		KO-ON DEMPA CO., LTD. OR EQUIVALENT
Horn wall type		65
Horn water proof type		RH-3815TK x 77
Cone type		ES-16AT x 3
Diameter		
Horn type	(mm)	380 mm
Cone type	(mm)	160 mm

(5) Control Console Desk

Manufacturer		MEIDEN OR FUJI ELECTRIC
Type		Desk Type
Dimension		
Height	(mm)	1200
Width	(mm)	1000
Depth	(mm)	1000
Weight (Approx.)	(kg)	500

7.2 AUTOMATIC PRIVATE BRANCH EXCHANGER (PABX)

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(1) PABX

Manufacturer		Local made ~~OKI ELECTRIC INPUSTRY CO., LTD. OR EQUIVALENT~~
Type		~~OKI KC230~~
Rating		
Subscriber	(circuit)	504 LINES
Public telephone trunk	(circuit)	24 LINES
Extension trunk	(circuit)	504 LINES
Number group		200

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Tone signal and class of rating		
Dial tone	(Hz)	400 Hz 120 IPB
Busy tone	(Hz)	400 Hz 60 IPB
Ring back tone	(Hz)	400/20 Hz MODULATION 1 SEC ON, 2S OFF
Ringing tone	(Hz)	20 Hz, 1 SEC ON, 2 SEC OFF
Howler tone	(Hz)	2 KHz/10Hz MODULATION
Output	(V)	DEPENDING ON SIGNAL TYPES
Input voltage	(V)	-48 ± 5V DC (MAIN SWITCH) AC100V (I/O EQUIPMENT)
Line condition		
Loop resistance of line	(ohm)	1200 OHMS
Leakage resistance	(ohm)	20 K OHMS
Characteristics of impulse		
Impulse type	(PPS)	10PPS/20PPS ± 2PPS
Impulse speed	(PPS)	Ditto
Minimum pulse	(msec)	More than 600 msec for 10 PPS More than 300 msec for 20 PPS
Trunking scheme		To be discussed at the time of installation.
Dimension		
Height	(mm)	1980
Width	(mm)	1180

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Depth	(mm)	750
Weight (Approx.)	(kg)	MAX. 400 kgs
		x2 CABINETS

(2) Attendand Consol

Manufacturer		OKI ELECTRIC INDUSTRY CO., LTD. OR EQUIVALENT
Type		PA 704 DESK TYPE
Dimension		
Height	(mm)	292 INCLUDING BUSY LAMP FIELD FOR 400 STATION LINES
Width	(mm)	470
Depth	(mm)	390
Weight (Approx.)	(kg)	400

(3) Power Source Equipment

(a) Battery

Manufacturer		JAPAN STORAGE BATTERY CO., LTD. OR EQUIVALENT
Type		SF 250K
Mounting method		RACK
Rating		
Voltage	(V)	48V
Capacity (at 10 hour)	(Ah)	250 AH
Number of unit cell		24 CELLS
Nominal voltage of cell	(V)	2 V
Nominal floating voltage	(V)	2.18V/CELL
Maximum discharge current	(A)	5-SECONDS, 750A

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Specific gravity of electrolyte at full charged		1,240
Maxiaum temperature of electrolyte	(°C)	40°C
Volume of electrolyte per cell	(litre)	6.3 ℓ
Dimension		
Height	(mm)	378 mm
Width	(mm)	170 mm
Depth	(mm)	195 mm
Weight		
Cell (including electrolyte)	(kg)	22.3 kg
Total (including mounting structure and conductor)	(kg)	616.2 kg

(b) Rectifier

Manufacturer		JAPAN STORAGE BATTERY CO., LTD. OR EQUIVALENT
Type		STF1-56-40CA
Rectification system		THYRISTORS
Cooling system		NATURAL COOLING
Rating		
Input (AC side)		
Frequency	(Hz)	50 Hz
Frequency fluctuation range	(With in Hz)	50 Hz ± 5%
Voltage	(Hz)	220 V
Voltage fluctuation range	(With in Hz)	220V ± 10%

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Power factor (More than %)		More than 70%
Output (DC side)		
Set voltage		
Floating	(V)	52.3 V
Equalizing	(V)	55.2 V
Voltage adjustment range		
Floating	(V)	50V - 53V
Equalizing	(V)	53V - 56V
Stage voltage in voltage adjustmenht		50V - 56V

7.3 CLOCK SYSTEM

Master clock equipment		
Manufacturer		Citizen or Equivalent
Type		self standing metal clad drip proof*
Rating		
Oscillating frequency	(kHz)	4194*
Time error	(per day)	~~After contract~~ 0.1 sec*
Slave clock output	(channel)	1*
Signal		one second polarized pulse*
Capacity		max. 30 slave clocks*
Input power source		DC 220V*
Panel		
Type		self standing metal clad drip proof*
Thickness of steel plate	(mm)	1.6*

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Dimension (Approx.).		
Height	(mm)	1850*
Width	(mm)	550*
Depth	(mm)	350*
Weight (including master clock equipment) (Approx.)	(kg)	200*
Slave clock		
Manufacturer		Citizen or Equivalent
Type		single face or double face*
Numbers		
60cm diameter		3*
30cm diameter		7*

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

8. LIGHTING

	Main building first floor	Main building mezzanine floor
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Number	130	170
Type	FLR40	FLR40
Rating	AC220V 50Hz	AC220V 50Hz
Incandescent lamps		
Numbers	20	20
Type	L	L
Rating	AC/DC 220V	AC/DC 220V
Mercury vapor lamps		
Numbers	NA	NA
Type		
Rating		
Power receptacles		
Number	15	20
Type	-	-
Rating	AC220 15A	AC220 15A
Exit sign lights		
Quantity	5	4
Type	-	-
Rating	AC220V 50Hz	AC220V 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Main building first floor	Main building mezzanine
Lighting distribution panel			
Manufacturer		FUJI ELECTRIC	
Quantity		2	2
Type		Wall Mount Type	
Rating	(V, A)	AC220V 30A	AC220V 30A
Illumination level	(Lx)	50, 200	50 ~ 200

		Main building operation floor	Boiler area
Lighting fixture			
Manufacturer		MATSUSHITA, IWASAKI or Equivalent	
Quantity and type			
Fluorescent lamps			
Numbers		325	80
Type		FLR40	FLR40 (Explosion Proof)
Rating		AC220V 50Hz	AC220V 50Hz
Incandescent lamps			
Number		20	40
Type		L	L (Explosion Proof)
Rating		AC/DC 220V	AC/DC 220V
Mercury vapor lamps			
Number		40	NA
Type		HF400	
Rating		AC220V 50Hz	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Main building operation floor	Boiler area
Power receptacles			
Number		25	20
Type		-	(Explosion Proof)
Rating		AC220V 15A	AC220V 15A
Exit sign lights			
Quantity		10	NA
Type		-	
Rating		AC220V 50Hz	
Lighting distribution panel			
Manufacturer		FUJI ELECTRIC	
Quantity		2	1
Type		Wall Mount Type	Wall Mount Type
Rating	(V, A)	AC220V 50Z	AC220V 30A
Illumination level		100 ∿ 500	50 ∿ 100

	H_2 gas generator room	Cooling water control room
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Numbers	5	NA
Type	FLR40	
Rating	AC220V 50Hz	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	H_2 gas generator room	Cooling water control room
Incandescent lamps		
Numbers	2	4
Type	L	L
Rating	AC220V 50Hz	AC220V 50Hz
Mercury vapor lamps		
Numbers	NA	8
Type		MF400
Rating		AC220V
Power receptacles		
Number	2	4
Type	-	-
Rating	AC220V 15A	AC220V 15A
Exit sign lights		
Quantity	NA	1
Type		-
Rating (V, A)		AC220V 50Hz
Lighting distribution panel		
Manufacturer	NA	NA
Quantity		
Type		
Rating		
Illumination level	100	100

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Pre water and waste water equip. control room	Plant water equip. control room
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Numbers	40	45
Type	FLR40	FLR40
Rating	AC220V 50Hz	AC220V 50Hz
Incandescent lamps		
Number	8	10
Type	L	L
Rating	AC/DC 220V	AC/DC 220V
Mercury vapor lamps		
Number	NA	NA
Type		
Rating		
Power receptacles		
Number	5	5
Type	-	-
Rating	AC220V 15A	AC220V 15A
Exit sign lights		
Quantity	3	2
Type	-	-
Rating	AC220V 50Hz	AC220V 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Pre water and waste water equip. control room	Plant water equip. control room
Lighting distribution panel			
Manufacturer		FUJI ELECTRIC	FUJI ELECTRIC
Quantity		1	1
Type		Wall Mount Type	Wall Mount Type
Rating	(V, A)	AC220V 30A	AC220V 30A
Illumination level		100	100
		Intake water pump control room	Fuel oil facility control room
Lighting fixture			
Manufacturer		MATSUSHITA, IWASAKI or Equivalent	
Quantity and type			
Fluorescent lamps			
Numbers		5	8
Type		FLR40	FLR40
Rating		AC220V 50Hz	AC220V 50Hz
Incandescent lamps			
Numbers		2	2
Type		L	L
Rating		AC/DC 220V	AC/DC 220V
Mercury vapor lamps			
Number		NA	NA
Type			
Rating			

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Intake water pump control room	Fuel oil facility control room
Power receptables			
Number		2	2
Type		-	-
Rating		AC220V 15A	AC220V 15A
Exist sign lights			
Quantity		NA	NA
Type			
Rating	(V, A)		
Lighting distribution panel			
Manufacturer		FUJI ELECTRIC	
Quantity		1	NA
Type		Wall Mount Type	
Rating	(V, A)	AC220V 30A	
Illumination level		100	100
Lighting fixture		Air foam pump control room	Fire fighting truck garage
Manufacturer		MATSUSHITA, IWASAKI or Equivalent	
Quantity and type			
Fluorescent lamps			
Numbers		4	8
Type		FLR40	FLR40
Rating		AC220V 50Hz	AC220V 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Air foam pump control room	Fire fighting truck garage
Incandescent lamps			
Numbers		2	3
Type		L	L
Rating		AC/DC 220V	AC/DC 220V
Mercury vapor lamps			
Number		NA	NA
Type			
Rating			
Power receptacles			
Number		2	2
Type		-	-
Rating		AC220V 15A	AC220V 15A
Exit sign lights			
Quantity		1	2
Type		-	-
Rating		AC220V 50Hz	AC220V 50Hz
Lighting distribution panel			
Manufacturer		NA	NA
Quantity			
Type			
Rating	(V, A)		
Illumination level		100	100

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Lighting fixture	Technical Building
Manufacturer	MATSUSHITA, IWASAKI or Equivalent
Quantity and type	
Fluorescent lamps	
Numbers	100
Type	FLR40
Rating	AC220V 50Hz
Incandescent lamps	
Numbers	20
Type	L
Rating	AC/DC 220V
Mercury vapor lamps	
Numbers	NA
Type	
Rating	
Power receptacles	
Numbers	30
Type	-
Rating	AC220V 15A
Exit sign lights	
Quantity	4
Type	-
Rating	AC220V 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Lighting distribution panel			Technical Building
Manufacturer			FUJI ELECTRIC
Quantity			2
Type			Wall Mount Type
Rating	(V, A)		AC220V 30A
Illumination level			100 ∿ 500
Lighting fixture		Intake pump station	Intake bridge
Manufacturer		MATSUSHITA, IWASAKI or Equivalent	
Quantity and type			
Fluorescent lamps			
Numbers		NA	NA
Type			
Rating			
Incandescent lamps			
Numbers		NA	NA
Type			
Rating			
Mercury vapor lamps			
Numbers		8	8
Type		HF250	HF250
Rating		AC220V 50Hz	AC220V 50Hz
Power receptacles		2	NA
Numbers		(Outdoor)	
Type			

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Intake pump station	Intake bridge
Rating		AC220V 15A	
Exit sign lights			
Quantity		NA	NA
Type			
Rating			
Lighting distribution panel			
Manufacturer		NA	NA
Quantity			
Type			
Rating	(V, A)		
Illumination level		100	20
		Cooling tover	Pre water and vaste water treatment
Lighting fixture			
Manufacturer		MATSUSHITA, or Equivalent	IWASAKI
Quantity and type			
Fluorescent lamps			
Numbers		NA	12
Type			FLR20
Rating			AC220V
Incandescent lamps			
Numbers		NA	NA
Type			
Rating			

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Cooling tover	Pre-vater and vaste vater treatment
Mercury vapor lamps			
Numbers		30	10
Type		HF250	HF250
Rating		AC220V 50Hz	AC220V 50Hz
Pover receptacles			
Numbers		NA	NA
Type			
Rating			
Exit sign lights			
Quantity		NA	NA
Type			
Rating			
Lighting distribution panel			
Manufacturer		FUJI ELECTRIC	or Equivalent
Quantity		1	1
Type		Wall Mount Type (Outdoor)	Wall Mount Type (Outdoor)
Rating	(V, A)	AC220V 30A	AC220V 30A
Illumination level		50	50

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Plant water treatment	Residual oil tank and pump station
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Numbers	NA	20
Type		FLR20
Rating		AC220V 50Hz
Incandescent lamps		
Numbers	NA	NA
Type		
Rating		
Mercury vapor lamps		
Numbers	8	8
Type	MF250	MF250
Rating	AC220V 50Hz	AC220V 50Hz
Power receptacles		
Numbers	NA	NA
Type		
Rating		
Exit sign lights		
Quantity	NA	NA
Type		
Rating		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Plant water	Residual oil tank and pump station
Lighting distribution panel			
Manufacturer		FUJI ELECTRIC	FUJI ELECTRIC
Quantity		1	1
Type		Wall Mount Type	Wall Mount Type
Rating	(V, A)	AC220V 30A	AC220V 30A
Illumination level		20	20
		Main transformer area	Fuel oil unloading facility
Lighting fixture			
Manufacturer		MATSUSHITA, IWASAKI or Equivalent	
Quantity and type			
Fluorescent lamps			
Numbers		4	NA
Type		FLR20W	
Rating		AC220V 50Hz	
Incandescent lamps			
Numbers		NA	NA
Type			
Rating			
Mercury vapor lamps			
Numbers		NA	25
Type			HF400
Rating			AC220V 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		Main transformer area	Fuel oil unloading facility
Power receptacles			
Numbers		NA	NA
Type			
Rating			
Exit sign lights			
Quantity		NA	NA
Type			
Rating			
Lighting distribution panel			
Manufacturer		NA	NA
Quantity			
Type			
Rating	(V, A)		
Illumination level		20	50 ~ 100
		HSD and residual oil service tank area	Chemical equipment area
Lighting fixture			
Manufacturer		MATSUSHITA, IWASAKI or Equivalent	
Quantity and type			
Fluorescent lamps			
Numbers		6	6
Type		FLR20	FLR20
Rating		AC220V 50Hz	AC220V 50Hz

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	HSD and residual oil service tank area	Chemical equipment area
Incandescent lamps		
Numbers	NA	NA
Type		
Rating		
Mercury vapor lamps		
Numbers	NA	NA
Type		
Rating		
Power receptacles		
Numbers	NA	NA
Type		
Rating		
Lighting distribution panel		
Manufacturer	NA	NA
Quantity		
Type		
Rating (V, A)		
Illumination level	20	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Fire water pump area	Make up water tank area
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Numbers	10	4
Type	FLR40	FLR20
Rating	AC220V 50Hz	AC220V 50Hz
Incandescent lamps		
Numbers	NA	NA
Type		
Rating		
Mercury vapor lamps		
Numbers	NA	NA
Type		
Rating		
Power receptacles		
Numbers	NA	NA
Type		
Rating		
Lighting distribution panel		
Manufacturer	NA	NA
Quantity		
Type		
Rating (V, A)		
Illumination level	100	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Other outdoor equipment	Parking area
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Numbers	40	10
Type	FLR20	FLR20
Rating		AC220V 50Hz
Incandescent lamps		
Numbers	NA	NA
Type		
Rating		
Mercury vapor lamps		
Numbers	20	NA
Type	HF250	
Rating		
Power receptacles		
Numbers	NA	NA
Type		
Rating		
Lighting distribution panel	NA	NA
Manufacturer		
Quantity		
Type		
Rating (V, A)	20	5
Illumination level		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Main road	Branch road
Lighting fixture		
Manufacturer	MATSUSHITA, IWASAKI or Equivalent	
Quantity and type		
Fluorescent lamps		
Numbers	NA	50
Type		FLR20
Rating		AC220V 50Hz
Incandescent lamps		
Numbers	NA	NA
Type		
Rating		
Mercury vapor lamps		
Numbers	180	NA
Type	HF400	
Rating	AC220V 50Hz	
Power receptacles		
Numbers	NA	NA
Type		
Rating		
Lighting distribution panel		
Manufacturer	FUJI ELECTRIC or Equivalent	
Quantity	3	NA
Type	Stand Type	
Rating (V, A)	AC220V 30A	
Illumination level	20	5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

9. 220 KV GRID STATION

9.1 ~~SF6 GAS CIRCUIT BREAKER~~

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		For generator main circuit	For starting transformer
Kind of circuit breaker		SF6 GAS TYPE	SF6 GAS TYPE
Manufacturer		FUJI ELECTRIC CO., LTD. OR EQUIVALENT	
Type		BAK 524	BAK 524
Numbers		1	1
Rating			
Voltage	(kV)	245	245
Class of insulation	(kV)	~~220~~ 460	~~220~~ 460 * /**
Insulation level	(kV)	BIL 1050	BIL 1050
Current	(A)	~~1200~~	2000 *
Frequency	(Hz)	50	50
Interrupting current	(kA)	40	40
Recovery voltage	(kV)	~~255~~ 364	~~255~~ 364 *
Making current	(kA)	100	100
Short-time current	(kA)	40	40
Interrupting time	(sec)	0.06	0.06
Opening time	(sec)	0.03	0.03
Control voltage	(V)	DC 220	DC 220
Tripping voltage	(V)	DC 220	DC 220
Operating duty		~~0-1 min-CO-3min-CO~~ 0-0.3 sec-CO-3 min-CO *	~~0-1 min-CO-3min-CO~~
Operating mechanism			10th Issue-44
Type of operating mechanism		HYDRAULIC	HYDRAULIC
Method of opening mechanism		HYDRAULIC	HYDRAULIC
~~Method of closing mechanism~~		HYDRAULIC	~~HYDRAULIC~~

*10th Issue-43
**15th Issue-38

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

		For generator main circuit	For starting transformer
Spring charge mechanism			
Rated voltage of the charging motor in the operating mechanism	(V)	N.A.	N.A.
Time required for the motor to recharge the closing spring	(sec)	N.A.	N.A.
Pneumatic mechanism		HYDRAULIC MECHAMISM	HYDRAULIC MECHANISM
Rated pressure of compressed air for operation	(kg/cm^2g)	320	320
Time required for the motor compressor unit to charge the air tank pressure	(sec)	0-350kg/cm²:1000SEC 32-350kg/cm²: 60SEC	0-350kg/cm²:1000SEC 32-350kg/cm²:60 SEC
Insulation SF_6 gas			
Quantity	(Nm^3)	130 kg	130 kg
Kind		SF6 GAS	SF6 GAS
Manufacturer		KANTO DENKA KOGYO	KANTO DENKA KOGYO
Bushing			
Type		GAS BUSHING	GAS BUSHING
Rated voltage	(kV)	245	245
Rated current	(A)	~~1200~~ 2000	~~2000~~ 1200
Dimension			
Height	(mm)	4955	4955
Width	(mm)	5375	5375
Depth	(mm)	3590	3590
Weight	(kg)	7310	7310

10th Issue-45

M. Yamada

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Bushing type current transformer		For generator main circuit	For starting transformer
Manufacturer		FUJI ELECTRIC CO., LTD.	
CT ratio		1200/1A	2000/1A
Quantity		3	3
Burden	(VA)	40	40
Accuracy class		1.0	1.0
Over current strength		40	40
Over current constant (%)		20	20

9.2 DISCONNECTING SWITCH

		For starting transformer
Manufacturer		TAKAOKA or Equivalent
Type		Horizontal Center Break
Numbers		1
Rating		
Voltage	(kV)	245
Class of insulation	(kV)	BIL 1050
Current	(A)	2500
Frequency	(Hz)	50
Short-time current	(kA)	40
Control voltage	(V)	DC 220
Control mechanism		MOTOR
Dimension		
Height	(mm)	Approx. 4700
Width	(mm)	Approx. 10475
Depth	(mm)	Approx. 3200

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

For starting transformer

Weight (including mounting structure)	(kg)	1850 without mounting structure

9.3 POTENTIAL TRANSFORMER

Prot-27

		For starting transformer
Manufacturer		Nissin Electric Co., Ltd.
Type		Capacitive
Numbers		3
Connection		Single phase, phase to Earth
Rating		
Class of insulation	(kV)	BIL 1050kV
Primary voltage	(kV)	$220/\sqrt{3}$
Secondary voltage	(V)	$110/\sqrt{3}$
Burden	(VA)	200
Accuracy class		1.0
Frequency	(Hz)	50
Dimension		
Height	(mm)	Approx. 3700
Width	(mm)	Approx. 700
Depth	(mm)	Approx. 770
Weight	(kg)	Approx. 850

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

8.4 LIGHTNING ARRESTER

For main transformer Prot-27

Manufacturer		MEIDENSHA
Type		ZSE-01
Number		3
Rating		
Voltage	(kV)	198
Frequency	(Hz)	50
Commercial frequency spark over voltage	(kV)	N.A.
Impulse withstand voltage	(kV)	1050 10th Issue-46 ~~900~~ (PORCELAIN HOUSING)
Impulse spark over voltage (1.2 x 50 us)	(kV)	N.A.
Nominal discharge currency (8 x 20 us)	(kA)	10
Dimension		
Height	(mm)	Approx. 2430
Width	(mm)	Approx. 500
Depth	(mm)	Approx. 350
~~Weight~~	(kg)	~~Approx. 130~~

8.5 220 KV CV CABLE ~~OVERHEAD LINE~~ Prot-26

(1) Steel tower		
Manufacturer		~~NIPPON DENRO MFG~~
Type		
Number of suspension type		~~3 Towers~~ N.A.
Number of tension type		~~4 Towers~~ N.A.
Number of circuit		~~2 CCT~~ N.A.

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Tenderer's Data Sheet

			MITSUI & CO., LTD. (Tenderer's Name)
	Design span	(m)	~~130~~
	Safety factor		
	Normal	(times)	1.5
	Emergency	(times)	1.0
	Kind of material		Steel
(2)	Conductor		
	Manufacturer		FURUKAWA or SHOWA
	Kind and size	(mm^2)	ACSR 240 x 2
	Tensile load	(kg)	10,210
	Resistance value	(ohm/km)	0.12 (at 20°C)
	Strand		
	Kind of wire	(mm^2)	Alumi 30/3.2 / Steel 7/3.2
	Tensile strength	(kg/cm^2)	Alumi 17.6 / Steel 130
	Conductivity	(%)	61
(3)	Insulater		
	Manufacturer		NGK INSULATORS, LTD.
	Kind and type		SUSPENSION INSULATOR (BALL AND SOCKET TYPE)
	Disk diameter	(mm)	254
	Unit space	(mm)	146
	Leakage distance	(mm)	292
	Puncture voltage	(kV)	140
	Electromechanical failing load	(kg)	~~12,000~~

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Flash over voltage (minimum)		
Dry (50 Hz)	(kV)	80
Wet (50 Hz)	(kV)	50
Impulse (1.2 x 50 us) positive	(kV)	125
Impulse (1.2 x 50 us) negative	(kV)	130
Properties of material		
Porcelain shell (color)		Porcelain brown glazed
Soket cap		Malleable iron, hot-diped
Cotter pin		Stainless steel
Cement		Portland cement
Insulater strings		
Applicable voltage	(kV)	220
Number of insulater strings		16 series or more
Flash over voltage		
Dry (50 Hz)	(kV)	745
Wet (50 Hz)	(kV)	600
Impulse (1.2x50 us) positive	(kV)	1,410
Impulse (1.2x50 us) negative	(kV)	1,650
Electromechanical failing load		
Suspension strings	(kg)	12,000
Tension strings	(kg)	12,000
Clamping pressure (minimum)	(kg)	~~100,000~~

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(4) Shield wire

Manufacturer		FURUKAWA or SHOWA	
Kind and size	(mm^2)	~~AW 70 x 1~~	Prot-26
Tensile load	(kg)	~~8,000~~	
Resistance value	(ohm/km)	~~1.27~~	
Strand			
Kind of wire	(mm^2)	~~Steel 7/3.5~~	
Tensile strength	(kg/cm^2)	~~118.8~~	
Conductivity	(%)	~~20 (at 20°C)~~	

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Tenderer's Data Sheet

10. ~~6.6 kV~~ Starting Tr CV CABLE

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		Starting transf. CV cable FURUKAWA, and/or SHOWA Prot-28
Type		~~Non combustibe sheath CV~~ 10th Issue-47
Rated voltage	(kV)	~~6.6~~ 220 Prot-28
Core and size	(mm^2)	~~1C x 1000~~
Length	(m)	~~7200 (9 x 1200m)~~
Cable head		
Dimension		~~NA~~
Height	(m)	
Diameter	(m)	
Weight	(kg)	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

11. CONSTRUCTION MATERIALS

11.1 CABLE

(1) Power Cable

		6,600V	600V
Manufacturer		FURUKAWA and/or SHOWA	FURUKAWA and/or SHOWA
Kind		Non-combustible sheath CV	CV
Number of core		3C	3C, 2C
Total length	(m)	16,050	64,400

		6,600V	600V
Manufacturer			
Kind			
Number of core			
Total length	(m)		

(2) Control Cable

Manufacturer		FURUKAWA and/or SHOWA	
Kind		CVV	
Number of core		2, 3, 4, 5, 6, 7, 9, 12, 20	
Total length	(m)	461,000	

Manufacturer			
Kind			
Number of core			
Total length	(m)		

10th Issue-4E

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(3) Communication Cable

Use		Paging	Paging
Manufacturer		FURUKAWA and/or SHOWA	FURUKAWA and/or SHOWA
Kind		CVV-S	CVV-S ~~IV~~ 10th Issue-4
Number of core		2C - 6C	2C
Total length	(m)	17,500	17,500
Use		Telephone	Fire pretection/ clock system
Manufacturer		FURUKAWA and/or SHOWA	FURUKAWA and/or SHOWA
Kind		CPEV-S	CVV
Number of core		1P - 20P	4C, 12C
Total length	(m)	196,000 (by 1P)	21,700

(4) Special cable

Use		CPU (2/0)	Teleçontrol
Manufacturer		FURUKAWA and/or SHOWA	FURUKAWA and/or SHOWA
Kind		KPEV-S	KPEV-S
Total length	(m)	75,000	6,000
Use		Thermo couple	
Manufacturer		FURUKAWA and/or SHOWA	
Kind		KX, EX, TX	
Total length	(m)	10,000	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5) Others

Manufacturer			
Kind			
Total length	(m)		

11.2 CONDUIT

Manufacturer		NKK, or Equivalent	
Kind		Rigid Steel	
Total length	(m)	13,900	
Manufacturer		ACE or Equivalent	
Kind		Flexible	
Total length	(m)	1,050	

11.3 CABLE TRAY

Manufacturer		DOI SEISAKUSHO or Equivalent	
Kind		Lader Type	Duct Type
Total length	(m)	7,650	2,100
Total weight	(kg)	131,329	70,440
Manufacturer			
Kind			
Total length	(m)		
Total weight	(kg)		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

11.4 GROUNDING WIRE

Manufacturer		FURUKAWA and/or SHOWA
Kind		Bare Stranded Copper 10th Issue-50
Total length	(m)	10,500
Total weight	(kg)	24,129

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR FDF)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed air to air cooled
Class of rating		continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	1,890
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	2,600
Width	(mm)	3,500
Depth	(mm)	1,700
Weight (Approx.)	(kg)	9,300

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR GRF)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed air to air cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	260
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	1,680
Width	(mm)	1,470
Depth	(mm)	1,160
Weight (Approx.)	(kg)	3,200

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

10. ELECTRIC MOTOR (FOR GAH EMERGENCY)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed fan cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	7.5
Voltage	(V)	DC 220
Frequency	(Hz)	NA
Speed	(RPM)	1,500
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Resister
Dimension (Approx.)		
Height	(mm)	350
Width	(mm)	300
Depth	(mm)	450
Weight (Approx.)	(kg)	95

H. Yoneda

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MITSUI & CO., LTD.
(Tenderer's Name)

Tenderer's Data Sheet

10. ELECTRIC MOTOR (FOR RESIDUAL OIL PUMP)		
Manufacturer		FUJI ELECTRIC
Type		Totally enclosed fan cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating	(kW)	55
Output	(V)	380
Voltage	(Hz)	50
Frequency	(RPM)	1,450 ~~1,000~~ 11th Issue-1
Speed		Horizontal
Vertical or horizontal		F
Insulation class		Direct on line
Starting method		
Dimension (Approx.)		
Height	(mm)	550
Width	(mm)	630
Depth	(mm)	710
Weight (Approx.)	(kg)	500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR HSD OIL PUMP)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed fan cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	7.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,450 ~~3,000~~ 11th Issue -2
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	350
Width	(mm)	380
Depth	(mm)	500
Weight (Approx.)	(kg)	60

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR INSTRUMENT AIR COMPRESSOR)

Manufacturer		FUJI ELECTRIC
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	75
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	600
Width	(mm)	650
Depth	(mm)	730
Weight (Approx.)	(kg)	550

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR SERVICE AIR COMPRESSOR)

Manufacturer		FUJI ELECTRIC
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	160
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	1,500
Width	(mm)	1,300
Depth	(mm)	1,000
Weight (Approx.)	(kg)	880

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Tenderer's Data Sheet

YARD INSTRUMENT

12. ELECTRIC MOTOR (FOR AIR COMPRESSOR)

MITSUI & CO., LTD.
(Tenderer's Name)

Manufacturer		Fuji Electric
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	11
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	376
Width	(mm)	430
Depth	(mm)	601
Weight (Approx.)	(kg)	110

H. Yamada

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR AOP)

Manufacturer		FUJI ELECTRIC
Type		Drip Proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	132
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3,000
Vertical or horizontal		Vertical
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	820
Width	(mm)	600
Depth	(mm)	1,050
Weight (Approx.)	(kg)	750

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR JOP)

Manufacturer		FUJI ELECTRIC
Type		Drip Proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	75
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	750
Width	(mm)	550
Depth	(mm)	870
Weight (Approx.)	(kg)	550

15. ojimida

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR EOP)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed fan cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	7.5
Voltage	(V)	DC 220
Frequency	(Hz)	NA
Speed	(RPM)	1,750
Vertical or horizontal		Vertical Horizontal
Insulation class		F
Starting method		Resister
Dimension (Approx.)		
Height	(mm)	350
Width	(mm)	300
Depth	(mm)	450
Weight (Approx.)	(kg)	95

H. Honda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR BOILER FEED PUMP)

Manufacturer		FUJI ELECTRIC
Type		Drip Proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	4,100
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	1,900
Width	(mm)	2,700
Depth	(mm)	3,200
Weight (Approx.)	(kg)	8,200

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR CONDENSATE PUMP)

Manufacturer		FUJI ELECTRIC
Type		Drip Proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	230
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Vertical
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	1,610
Width	(mm)	1,400
Depth	(mm)	1,100
Weight (Approx.)	(kg)	1,700

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR CONDENSATE PUMP)

Manufacturer		FUJI ELECTRIC
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	230
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Vertical
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	1,910
Width	(mm)	1,400
Depth	(mm)	1,100
Weight (Approx.)	(kg)	1,900

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR HEATER DRAIN PUMP)

Manufacturer		FUJI ELECTRIC
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	110
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	820
Width	(mm)	580
Depth	(mm)	1,070
Weight (Approx.)	(kg)	710

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR CIRCULATING WATER PUMP)

Manufacturer		FUJI ELECTRIC
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	1,500
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	500 (S.S.)
Vertical or horizontal		Vertical
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	4,050
Width	(mm)	2,700
Depth	(mm)	1,800
Weight (Approx.)	(kg)	13,000

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR BEARING COOLING WATER PUMP)

Manufacturer		FUJI ELECTRIC
Type		Drip proof
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	132
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	820
Width	(mm)	580
Depth	(mm)	1,130
Weight (Approx.)	(kg)	800

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR MAKE UP WATER TRANSFER PUMP)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	15
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	430
Width	(mm)	500
Depth	(mm)	660
Weight (Approx.)	(kg)	185

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR PRIMARY COOLING WATER PUMP)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	15
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	430
Width	(mm)	500
Depth	(mm)	660
Weight (Approx.)	(kg)	185

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR COOLING TOWER FAN)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed fan cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	132
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	820
Width	(mm)	580
Depth	(mm)	1,130
Weight (Approx.)	(kg)	800

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR COOLING TOWER SLUDGE PUMP)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	3.7
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	310
Width	(mm)	400
Depth	(mm)	450
Weight (Approx.)	(kg)	61

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR CHEMICAL INJECTION PUMP)

Manufacturer		FUJI ELECTRIC or YASUKAWA ELC.
Type		TEFC
Class of rating		Continuous
Classification of explosion-proof		N/A
Rating		
Output	(kW)	1.5 kW
Voltage	(V)	380 V
Frequency	(Hz)	50 Hz
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		F class
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	185
Width	(mm)	330
Depth	(mm)	280
Weight (Approx.)	(kg)	20

H. Honda

Scanned with CamScanner

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR SULFURIC ACID INJECTION EQUIPMENT)

Manufacturer		FUJI ELECTRIC
Type		TEFC
Class of rating		Continuous
Classification of explosion-proof		Non-hazardous
Rating		
Output	(kW)	0.2
Voltage	(V)	220
Frequency	(Hz)	50
Speed	(RPM)	1,500 (S.S.)
Vertical or horizontal		Horizontal
Insulation class		"E"
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	130
Width	(mm)	240
Depth	(mm)	-
Weight (Approx.)	(kg)	6.0

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR INTAKE WATER PUMP)

Manufacturer		FUJI ELECTRIC
Type		Totally enclosed fan cooled
Class of rating		Continuous
Classification of explosion-proof		-
Rating		
Output	(kW)	75
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500
Vertical or horizontal		Vertical
Insulation class		F
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	920
Width	(mm)	760
Depth	(mm)	600
Weight (Approx.)	(kg)	650

T. Uyeda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR Emergency fresh water fire pump)

Manufacturer		FUJI ELECTRIC or TOSHIBA
Type		Drip Proof
Class of rating		Continuous
Classification of explosion-proof		NA
Rating		
Output	(kW)	340
Voltage	(V)	6,600
Frequency	(Hz)	50
Speed	(RPM)	1,500
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct
Dimension (Approx.)		
Height	(mm)	2,610
Width	(mm)	1,840
Depth	(mm)	1,050
Weight (Approx.)	(kg)	1,370

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR Fire water pump)

Manufacturer		FUJI ELECTRIC or TOSHIBA
Type		Drip Proof
Class of rating		Continuous
Classification of explosion-proof		NA
Rating		
Output	(kW)	15
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500
Vertical or horizontal		Horizontal
Insulation class		F
Starting method		Direct
Dimension (Approx.)		
Height	(mm)	368
Width	(mm)	324
Depth	(mm)	647
Weight (Approx.)	(kg)	122

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR INTAKE PUMP STATION OHC)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%ED
Classification of explosion-proof		None
Rating		
Output	(kW)	6.3
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	430
Width	(mm)	322
Depth	(mm)	868
Weight (Approx.)	(kg)	165

Scanned with CamScanner

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR INTAKE PUMP STATION OHC)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%ED
Classification of explosion-proof		None
Rating		
Output	(kW)	2.2
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	382
Width	(mm)	275
Depth	(mm)	728
Weight (Approx.)	(kg)	90

Scanned with CamScanner

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR TURBIN ROOM CRANE)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%ED
Classification of explosion-proof		None
Rating		
Output	(kW)	17
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	465
Width	(mm)	355
Depth	(mm)	980
Weight (Approx.)	(kg)	220

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR TURBIN ROOM CRANE)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%EC
Classification of explosion-proof		None
Rating		
Output	(kW)	4
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	382
Width	(mm)	275
Depth	(mm)	727
Weight (Approx.)	(kg)	90

Scanned with CamScanner

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR TURBIN ROOM CRANE)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%ED
Classification of explosion-proof		None
Rating		
Output	(kW)	6.3
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	430
Width	(mm)	322
Depth	(mm)	868
Weight (Approx.)	(kg)	165

H. Uemura

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR COOLING TOWER PUMP HOUSE OHC)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%RD
Classification of explosion-proof		None
Rating		
Output	(kW)	6.3
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	430
Width	(mm)	322
Depth	(mm)	868
Weight (Approx.)	(kg)	165

10. Uchida

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR COOLING TOWER PUMP HOUSE OHC)

Manufacturer		FUJI ELECTRIC, MITSUBISHI or SHINKO ELECTRIC
Type		Wound Rotor
Class of rating		25%ED
Classification of explosion-proof		None
Rating		
Output	(kW)	2.5
Voltage	(V)	AC 380
Frequency	(Hz)	50
Speed	(RPM)	1,000
Vertical or horizontal		Horizontal
Insulation class		B/B
Starting method		Secondary resister
Dimension (Approx.)		
Height	(mm)	382
Width	(mm)	275
Depth	(mm)	727
Weight (Approx.)	(kg)	90

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR COAGULATION-SEDIMENTATION TANK TRANSFER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	37
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	901
Width	(mm)	560
Depth	(mm)	430
Weight (Approx.)	(kg)	330

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR SLUDGE DISCHARGE PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	483
Width	(mm)	360
Depth	(mm)	273
Weight (Approx.)	(kg)	64

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR SLUDGE PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	311
Width	(mm)	410
Depth	(mm)	450
Weight (Approx.)	(kg)	58

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR COOLING TOWER MAKE UP PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	110
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	1133
Width	(mm)	850
Depth	(mm)	565
Weight (Approx.)	(kg)	670

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR FILTER EQUIPMENT TRANSFER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	22
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	483
Width	(mm)	360
Depth	(mm)	430
Weight (Approx.)	(kg)	120

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR FILTER BACKWASHING PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	55
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	560
Width	(mm)	430
Depth	(mm)	901
Weight (Approx.)	(kg)	330

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR DRINKING WATER FEED PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	30
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	560
Width	(mm)	430
Depth	(mm)	800
Weight (Approx.)	(kg)	250

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR TREATED WATER TRANSFER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	311
Width	(mm)	410
Depth	(mm)	450
Weight (Approx.)	(kg)	58

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR SERVICE WATER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	311
Width	(mm)	410
Depth	(mm)	450
Weight (Approx.)	(kg)	58

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR WATER TREATMENT SUPPLY PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	311
Width	(mm)	410
Depth	(mm)	450
Weight (Approx.)	(kg)	58

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR REGENERATION WATER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	311
Width	(mm)	410
Depth	(mm)	450
Weight (Approx.)	(kg)	58

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR BOOSTER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	7.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	330
Width	(mm)	415
Depth	(mm)	460
Weight (Approx.)	(kg)	62

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR WASTE WATER) DISCHARGE-PUMP

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	2.2
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	275
Width	(mm)	190
Depth	(mm)	380
Weight (Approx.)	(kg)	32

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR DEMINERALIZED WATER TRANSFER PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	7.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3000
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	330
Width	(mm)	415
Depth	(mm)	460
Weight (Approx.)	(kg)	62

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR TURBINE ROOM SUMP PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	2.2
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	380
Width	(mm)	194
Depth	(mm)	270
Weight (Approx.)	(kg)	30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR CONDENSER PIT SUMP PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	2.2
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	380
Width	(mm)	194
Depth	(mm)	270
Weight (Approx.)	(kg)	30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR TURBINE OIL SUMP PIT PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	2.2
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	380
Width	(mm)	194
Depth	(mm)	270
Weight (Approx.)	(kg)	30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR UNIT DISCHARGE PIT PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	11
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		HORIZONTAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	376
Width	(mm)	430
Depth	(mm)	601
Weight (Approx.)	(kg)	110

M. Suzuki

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR WASTE WATER STORAGE POND PUMP)

Manufacturer		FUJI ELECTRIC or SIEMENS PAKISTAN
Type		TOTALY ENCLOSED FAN COOLED
Class of rating		CONTINUOUS
Classification of explosion-proof		--
Rating		
Output	(kW)	5.5
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1500
Vertical or horizontal		VERTICAL
Insulation class		B
Starting method		DIRECT ON LINE
Dimension (Approx.)		
Height	(mm)	483
Width	(mm)	360
Depth	(mm)	273
Weight (Approx.)	(kg)	64

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR Hydrazine Solution Pump)

Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Type		3-phase Induction
Class of rating		Continuous
Classification of explosion-proof		—
Rating		
Output	(kW)	0.4
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500
Vertical or horizontal		Horizontal
Insulation class		E or B
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	146
Width	(mm)	150
Depth	(mm)	235
Weight (Approx.)	(kg)	9.5

M. Yonda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR Ammonia Solution Pump)

Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Type		3-phase Induction
Class of rating		Continuous
Classification of explosion-proof		—
Rating		
Output	(kW)	0.4
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	1,500
Vertical or horizontal		Horizontal
Insulation class		E or B
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	146
Width	(mm)	150
Depth	(mm)	235
Weight (Approx.)	(kg)	9.5

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. ELECTRIC MOTOR (FOR Phosphate Solution Pump)

Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Type		3-phase Induction
Class of rating		Continuous
Classification of explosion-proof		—
Rating		
Output	(kW)	2.2
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3,000
Vertical or horizontal		Horizontal
Insulation class		E or B
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	199
Width	(mm)	198
Depth	(mm)	348
Weight (Approx.)	(kg)	29

Id. Uemichi

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MITSUI & CO., LTD.

(Tenderer's Name)

Tenderer's Data Sheet

12. ELECTRIC MOTOR (FOR Dhosphate Agitator)

REF. TO ATTACHMENT 85P6177-ML-110

Manufacturer		
Type		3-phase Induction
Class of rating		Continuous
Classification of explosion-proof		—
Rating		
Output	(kW)	0.4
Voltage	(V)	380
Frequency	(Hz)	50
Speed	(RPM)	3,000
Vertical or horizontal		Horizontal
Insulation class		E or B
Starting method		Direct on line
Dimension (Approx.)		
Height	(mm)	146
Width	(mm)	150
Depth	(mm)	235
Weight (Approx.)	(kg)	9.5

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SECTION VI

PLANT COMPUTER SYSTEM

H. Yoneda

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BOOK MAYUM & COMPANY
4, Nursery Lane
Lawrence Road
LAHORE

SECTION VI. PLANT COMPUTER SYSTEM

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

VI. PLANT COMPUTER SYSTEM

The Contractor shall guarantee the items marked "*" in Tenderer's Data Sheet.

1. CENTRAL PROCESSING UNIT (CPU)

1.1 CPU

(1)	Manufacturer		PANAFACOM
(2)	Type		U-1500
(3)	Number		2
(4)	Logic circuit element		LSI
(5)	Arithmetic operation		Parallel Binary, Fixed Point Floating Point, Decimal
(6)	Addressing		8 types
(7)	Registers		20 Registers.
(8)	Data word	(bits)	16
(9)	Floating point hardware included		(YES) ~~NO~~
(10)	Auto restarting unit		(YES) ~~NO~~
(11)	Power supply		
	· Voltage (AC)	(volts)	110
	· Frequency	(Hz)	50
	· Power consumption	(VA)	Approx. 1.5 KVA
(12)	Power supply system block diagram by No.		G69074-CC/OKB-C101
(13)	Outline arrangement of computer system by No.		G69074-CC/KIM-C001

8th Issue-1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(14)	Outline block diagram of each function by No.		G69074-CC/KiM-C002
(15)	Environment requirement		
	. Temperature	(°C)	5 - 35
	. Humidity range	(%RH)	20 - 80
	. Heat output	(kcal/h)	Approx. 3.0 KVA

1.2 MAIN MEMORY UNIT

(1)	Element		IC
(2)	Error check		YES ~~NO~~
(3)	Cycle time	(usec)	0.4/4 bytes
(4)	Expansion	(KB)	2000
(5)	Incremental	(kB)	256 or 512
(6)	Memory capacity	(kB)	512

2. AUXILIARY MEMORY UNIT

2.1 FIXED HEAD DISK UNIT OR IC MEMORY

(1)	Manufacturer		PANAFACOM
(2)	Number		2
(3)	Type		F6082C
(4)	Capacity	(MB/drive)	40
(5)	Access time	(msec)	Access Head: 40+12.5 (Average) Fixed Head: 12.5 ("
(6)	Recording density	(BPI)	6230
(7)	Recording method		MFM
(8)	Rotation speed	(rpm)	2400
(9)	Transfer rate	(kB/sec)	819

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(10)	Dimension W x D x H	(mm)	482 x 675 x 262
(11)	Weight	(kg)	Approx. 50
(12)	Power consumption	(VA)	Approx. 0.33
(13)	Maintenance interval	(hr)	Approx. 8000
(14)	Maintenance time	(hr)	Approx. 3.5

3. PROCESS INPUT/OUTPUT UNIT

3.1 ANALOG INPUT SYSTEM

(1)	Input impedance	(ohms)	2 x 10^6 / 10 x 10^6
(2)	Maximum source impedance that can be connected to inputs	(ohms)	0.5
(3)	Maximum continuous voltage that can be applied without damage	(volts)	+10, -1
(4)	Surge protection	(kV for usec)	~~Not~~ provided ~~After Contract~~ 8th Issue-2 15th Issue-42
(5)	Maximum number of analog input point		176
(6)	Maximum number of R.T.D point		80
(7)	Maximum number of thermocouple point		240
(8)	Multiplexer scanning	(Point/sec)	More than 100

3.2 DIGITAL INPUT SYSTEM

(1)	Excitation voltage	(volts)	48
(2)	Contact current	(amps)	15 x 10^{-3}
(3)	Minimum contact duration	(msec)	Approx. 16
(4)	Maximum distance to field contact	(meters)	500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5)	Maximum number of contact input points		560
(6)	Number of point/module		32/64
(7)	Maximum continuous voltage applied without damage	(volts)	100 (AC)
(8)	Surge protection	(kV for usec)	Provided 8th Issue-3 ~~After Contract~~ 15th Issue-43
(9)	Scan rate	(Point/sec)	More than 10,000
(10)	Type of isolation coupling		Pulse Transformer

3.3 PULSE INPUT

(1)	Line impedance	(ohms)	Less than 1000
(2)	Type of input		Contact/Transister Switch
(3)	Contact current	(amps)	15 mA
(4)	Maximum input frequency	(Hz)	5 / 100
(5)	Maximum count input circuit		100 pulse/sec.
(6)	Validity check		Software ~~Not~~ Provided 15th Issue-44
(7)	Maximum number of pulse input point		16
(8)	Number of point/module		8

3.4 ANALOG OUTPUT

(1)	Type of output		8th Issue-4 4-20mA corresponding to 15th Issue-45 ~~0-20mADC~~ input signal
(2)	D/C converter resolution	(bits)	8th Issue-4
(3)	Withstanding voltage	(volts)	AC500, 1 min.
(4)	Maximum number of output point		10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(5)	Number of point/module		2

3.5 DIGITAL OUTPUT

(1)	Type of output		Relay Contact
(2)	Type of contact		N.O
(3)	Contact rating	(VA)	100
		(ohms)	Approx. 0.25 at 3 VDC, 0.5A
(4)	Operating time	(msec)	Approx. 20
(5)	Maximum number of output point		32
(6)	Number of point/module		32

4. CABINET OF COMPUTER SYSTEM

(1)	Manufacturer		Fuji Electric Co., Ltd.
(2)	Number		16 8th Issue-5
(3)	Type		Vertical Type
(4)	Thickness of steel plates	(mm)	2.3/1.6
(5)	Dimension		
	· Height	(mm)	1,923
	· Width	(mm)	700/Cabinet
	· Depth	(mm)	880
(6)	Anti-vibration rubber		(YES) ~~NO~~
(7)	Weight	(kg)	8,000

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

5. CRT UNIT

(1)	Manufacturer		Fuji Electric Co., Ltd.
(2)	Type		IVC 400
(3)	Number		3
(4)	Number of character		80 characters x 50 lines
(5)	Kind of character		128 sets
(6)	Kind of colors		8
(7)	Character size		7 x 7 dots
(8)	Keyboard		(YES) ~~NO~~
(9)	Display tube size	(inch)	20
(10)	Weight	(kg)	Approx. 22
(11)	Power consumption	(VA)	Less than 400
(12)	Ambient temperature range	(°C)	0 - 40
(13)	Ambient humidity range	(%RH)	20 - 90

6. PRINTER

(1)	Manufacturer		Fuji Electric Co., Ltd.
(2)	Number		3
(3)	Type		203 AKJ
(4)	Printing speed	(char./sec)	165
(5)	Line capacity	(char./inch)	10
(6)	Dimension W x D x H	(mm)	930 x 640 x 960
(7)	Key board		~~YES~~ (NO)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(8)	Weight	(kg)	Approx. 90
(9)	Power consumption	(VA)	Approx. 350
(10)	Ambient temperature range	(°C)	5 - 40
(11)	Ambient humidity range	(%RH)	10 - 80

7. I/O PRINTER

(1)	Manufacturer		PANAFACOM
(2)	Number		2
(3)	Type		F7013
(4)	Printing speed	(char./sec)	150
(5)	Line capacity	(char./inch)	10
(6)	Dimension W x D x H	(mm)	640 x 610 x 808
(7)	Keyboard		(YES) ~~NO~~
(8)	Weight	(kg)	~~Approx. 50~~
(9)	Power consumption	(VA)	~~Approx. 350~~
(10)	Ambient temperature range	(°C)	~~5 - 40~~
(11)	Ambient humidity range	(%RH)	~~20 - 85~~

8. TREND RECORDER

(1)	Manufacturer		Fuji Electric Co., Ltd.
(2)	Type		PFA3
(3)	Number		3
(4)	Number of pen		3 pens (x 3 sets)
(5)	Chart speeds	(m/min)	20 mm/h, 120 mm/h, Etc.
(6)	Dimension W x D x H	(mm)	144 x 96 x 400
(7)	Input signal	(mA)	4 - 20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(8)	Power consumption	(VA)	Approx. 15
(9)	Ambient temperature range	(°C)	0 - 45
(10)	Ambient humidity range	(%RH)	30 - 90

9. FLOPPY DISK DEVICE

(1)	Manufacturer		PANAFACOM
(2)	Type		6050BD
(3)	Storage capacity	(kB)	485/drive
(4)	Packing density	(BPI)	~~N.A~~ 3400 BPI 8th Issue-6
(5)	Number of track		77 tracks/Side
(6)	Transfer rate	(kB/sec)	31.2
(7)	Mean access time	(msec)	250
(8)	Number of connectable drives		2
(9)	Dimension	(mm)	482 x 720 x 130
(10)	Weight	(kg)	Approx. 37
(11)	Power consumption	(VA)	Approx. 300
(12)	Ambient temperature range	(°C)	5 - 40
(13)	Ambient humidity range	(%RH)	20 - 80

10. HARD COPY UNIT

(1)	Type		TN5400
(2)	Number		1
(3)	Dimension	(mm)	Approx. 430 x 535 x 220
(4)	Weight	(kg)	Approx. 27
(5)	Power consumption	(VA)	Approx. 350

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(6)	Copying method		Thermal Copying Method
(7)	Copy size	(mm)	210 x 297
(8)	Copying speed	(sec)	)
(9)	Exposure time	(sec)	) Approx. 80/Sheet
(10)	Developing time	(sec)	)
(11)	Kind of colors		7
(12)	Ambient temperature range	(°C)	5 - 35
(13)	Ambient humidity range	(%RH)	30 - 80

11. OPERATOR'S CONSOLE

(1)	Type		Fuji Electric Co., Ltd.
(2)	Number		1
(3)	Dimension W x D x H	(mm)	2500 x 1000 x 750
(4)	Selection method of function		By Function Key
(5)	Weight	(kg)	Approx. 500
(6)	Power consumption	(VA)	Approx. 500
(7)	Key sets		
	• alphanumeric keys		YES
	• functional keys		YES
	• control keys		YES
	• ten keys		YES
(8)	Key arrangement		JIS

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

12. OPERATOR'S DESK

(1) Manufacturer		Fuji Electric Co., Ltd.
(2) Number		1
(3) Type		Desk Type
(4) Soundproof cover		(YES) ~~NO~~
(5) Dimension		
. Height	(mm)	750
. Width	(mm)	2100
. Depth	(mm)	900
(6) Weight	(kg)	Approx. 250

13. PRINTER DESK

(1) Manufacturer		Fuji Electric Co., Ltd.
(2) Number		1 set
(3) Type		Stand-alone
(4) Soundproof cover		(YES) ~~NO~~
(5) Dimension		
. Height	(mm)	960
. Width	(mm)	1,860
. Depth	(mm)	640
(6) Weight	(kg)	180

14. ENGINEER'S DESK

(1) Manufacturer	Fuji Electric Co., Ltd.
(2) Number	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(3)	Type		Desk type
(4)	Soundproof cover		YES / ~~NO~~
(5)	Dimension		
	. Height	(mm)	750
	. Width	(mm)	1,250
	. Depth	(mm)	1,000
(6)	Weight	(kg)	Approx. 200/Set

15. SYSTEM AVAILABILITY

(1)	M.T.B.F 2×10^3 Hours or more	(hr)	$\geq 2 \times 10^3$
(2)	Availability 99.5% or more	(%)	≥ 99.5

16. SOFTWARE

(1)	Basic operation system	YES / ~~NO~~
(2)	Basic application software package	YES / ~~NO~~
(3)	Diagnostic software	YES / ~~NO~~
(4)	Application software package	YES / ~~NO~~
(5)	Plant status monitor system	YES / ~~NO~~
(6)	Performance computation system	YES / ~~NO~~
(7)	Utility program	YES / ~~NO~~
(8)	TSM software	YES / ~~NO~~
(9)	Event recall	YES / ~~NO~~
(10)	Trip sequence	YES / ~~NO~~
(11)	Graphic display	YES / ~~NO~~
(12)	Hard copy	YES / ~~NO~~

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SECTION VII

ARCHITECTURAL, STRUCTURAL AND CIVIL WORKS

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PAGE

1. ARCHITECTURAL AND STRUCTURAL WORKS DA-1

2. BUILDING SERVICE FACILITIES DA-14

3. INTAKE WATER STRUCTURES DA-37

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

VII. ARCHITECTURAL, STRUCTURAL AND CIVIL WORKS

1. ARCHITECTURAL AND STRUCTURAL WORKS

(1) Structural Steel for Buildings

(a) Main Power House

Building volume	(m^3)	84,115
Weight		
SS41	(ton)	1,614.5
SM41A	(ton)	322.0
SSC41	(ton)	14.0
H.T. bolt	(ton)	42.5
Unfinished bolt	(ton)	3.5
Anchor bolt	(ton)	3.5
Anchor frame and templet	(ton)	15.0
Service bolt for erection	(ton)	15.0
Total weight	(ton)	2,030.0
Steel maker		NIPPON KOKAN or Equivalent
Bolt maker		do
Steel fabricator		NA
Grouting for column base (Non-shrink mortar 50 mm)	(m^2)	60.0
Rust preventive paint spec.		~~wash primer~~ Kansai Paint or equivalent ~~etc~~
maker		

(b) Auxiliary Buildings

Total building volume	(m^3)	4930

* 5th Issue-8.10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Weight		
SS41	(ton)	97.5
SM41A	(ton)	18.0
SSC41	(ton)	1.0
H.T. bolt	(ton)	2.5
Unfinished bolt	(ton)	0.5
Anchor bolt	(ton)	0.5
Anchor frame and templet	(ton)	1.0
Service bolt for erection	(ton)	1.0
Total weight	(ton)	122.0
Steel maker		NIPPON KOKAN or Equivalent
Bolt maker		do
Steel fabricator		NA
Grouting for column base (m^2) (Non-shrink mortar 50 mm)		15.0
Rust preventive paint spec.		~~zinc~~ wash primer *
" maker		Kansai Paint or equivalent * ~~Nippon Paint~~

(c) Elevator shaft

Type		Framing
Structural system		Bracing
Shaft dimension	(m)	3 x 5
Total height	(m)	50
Structural steel weight		
SS41	(ton)	90
SM41A	(ton)	Included in above

* 5th Issue-B.10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Others	(ton)	-
Total	(ton)	90
Steel maker		NIPPON KOKAN or Equivalent
Steel fabricator		NA
Grounting for base (Non-shrink mortar 50 mm)	(m^2)	2
Rust preventive paint spec.		~~NA~~ wash primer *
" maker		Kansai Paint or equivalent ~~NA~~ *

(2) Steel Flue for Stack

(a) Steel flue

Inside diameter	(m)	3.8
Top nozzle diameter	(m)	~~3.8~~ 3.6 * (GAS PATH DIA. 3.5m) *
		Top / Bottom
Steel plate thickness	(mm)	4.5 / 8
Weight		
Steel plate SHA41	(ton)	85
" SS41	(ton)	5.5
Stainless steel SUS304	(ton)	1.4
Steel shape (H.C.L) SS41	(ton)	30
Anchor bolts SS41	(ton)	0.5
Anchor frame	(ton)	2
Total weight	(ton)	124.4 REF. TO ATTACHMENT 85P 6177-ML-110
Steel maker		Do.
Steel fabricator		Do.
Grouting for base (Non-shrink mortor)	(m^3)	0.3

*5th Issue-B.1
-B.10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b)	Metal works		
	Number of platform		4
	Hand rail		
	Total length	(m)	100
	Grating		
	Total area	(m^2)	120
	Thickness	(mm)	32 x 3
	Embedded steel (SS41 and round bar)	(ton)	4.5
	Painter trolly		Top / Others
	Material		STAINLESS STEEL / CARBON STEEL
	Ladder (with safety cage)		
	Length	(mm)	150,000
(c)	Lining		Acid Proof ~~PORTLAND~~ CEMENT ~~+ SAND~~ *
	Lining material		
	- thickness	(mm)	50
	Maker		REF. TO ATTACHMENT 85P6177-ML-110 *
	Heat transmission ratio		0.38 + 0.00042 θg or less ~~0.65 at 250°C~~
	Heat durability	(°C)	~~Less~~ more than 1,000 ~~250~~ °C *
	Chemical component		Al_2O_3 25-30% 50-55% ~~CaO 13%~~ SiO_2 ~~4.4%~~ *
	Specific gravity		1.65-1.75 ~~2.0~~
	Total covered area	(m^3)	1,650 *
(d)	Insulation		~~ROCK WOOL~~ Fiber Glass
	Insulation material		REF. TO ATTACHMENT 85P6177-ML-110
	- maker		
	- thickness	(mm)	50

* Prot-32

M. Yoneda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Total covered area	(m^2)	1,720
Heat transmission ratio		~~0.039 at 100°C~~ 0.025 + 0.00018 θc
Heat durability		~~Less~~ more than 350 °C ~~600 °C~~
Lagging material		Al. sheet (within 3m above platform) /WIRE MESH
- thickness	(mm)	* 0.5 / ø 0.9
- covered area	(m^2)	1,740

(e) Miscellaneous

Ash discharge pipe material		STAINLESS STEEL
- size		150A
Ash discharge valve type		GATE
- size		50A

(3) Waterproofing work

(a) Oil caulking

Maker	SEKISUI CHEMICAL or equivalent
Size and length (mm x mm x m)	20 mm x 20 mm x12,000 m
	mm x mm x m
	mm x mm x m

(b) Polysulfide sealing

Maker	SEKISUI CHEMICAL or equivalent
Size and length (mm x mm x m)	20 mm x 20 mm x15,000m
	mm x mm x m
	mm x mm x m

* Prot-33

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MITSUI & CO., LTD.
(Tenderer's Name)

Durability

± 30 % at 90°C 5th Issue-B.10

(4) Metal Work

(a) Grating

Maker: DAIKURE or equivalent

Quantity
- t = 32 mm (m^2): 520.0
- t = 25 mm (m^2): 320.0
- t = (m^2): -

(b) Metal flashing

Maker/fabricator: Kobe Steel or equivalent

Material: SS 41 conforming to JIS G3101

Quantity
~~Thickness~~ t=1.2mm (m^2 / ~~mm~~): 600.0

(c) Hand rail

Material: Steel pipes confirming to JIS 3444
Railings & posts - φ1/4B x 3.5
Others - φ3/4B x 2.8

Length H = 1,100 mm (m): 850 + 500 = 1,350
→ for general + for stairs portions

Removable (m):

(d) Steel ladder

Length

		with safty basket	ladder
Main power house	(m)	8.0	15.0
Stack	(m)	150	-
Others	(m)	27.0	20.0

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(e) Trench cover and frames

Checkered plate

Thickness (mm) x quantity (m^2)	6 (mm) x 550	(m^2)
Frame Materials	SS41 ~~t=x~~ x L-50x50x4	2
(ton)	~~t=x~~ x 2.0	~~2~~

(f) Toe plate

Toe plate thickness (mm)	included in structural steel for building
Total length of toe plate (mm)	
Total weight (ton)	

(g) Border strip surrounding of T/G pedestal at operating floor

Material	SUS 304 conforming to JIS G4035 L-25x25x3
Length (m)	300.0

(h) Metal siding for future extension and Metal roofing

Material	SGP 25 galvanized steel sheet to JIS G3302. 0.8mm core sheet thickness
Maker	Kobe Steel or equivalent
Quantity (m^2)	Siding = ~~430 m^2~~ 910 m^2 Roofing = ~~430 m^2~~ NA

5th Issue-B.6

(i) Expansion joint/cover

Material	SUS 304 conforming to JIS G4035 Thickness 1.6mm Width 75mm
Operating floor	40
Operating floor for extension side	-
Mezzanine floor	40
Exterior wall	30

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(j) Machine hatch of auxiliary area

Area (m^2) x Number of floor — 6 (m^2) x 2

(k) Free access floor

Maker — HITACHI METAL or equivalent

Material — Aluminum alloy die-cast

Area of computor room (m^2) — 220.0

Area of communication room (m^2) (Administration building) — 50.0

(l) Embedded plate, hook and sleeve

Miscellaneous metal (ton) — 30.

(5) Doors and Louvers Works

Steel door and louvers (including knobs and key system)

Maker/fabricator — NITTETSU SASH or equivalent

Quantity door (m^2) — 200.0

louver (m^2) — 140.0

Door knobs and key system

Soundproof steel door (m^2) — 10.0

Maker

Motor driven rolling door

Maker — Suzuki Shutter or equivalent

Quantity (m^2) — 185.0

(6) Painting Work

Acid proof paint

Maker — NIPPON PAINT or equivalent

Quantity (m^2) — 580.0

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Acid and alkali proof coating

Maker	NIPPON PAINT or equivalent
Base material	Vinyl chloride resin
Objective ph	pH 1 - 13 pH
Quantity	4,200 (m^2)

(7) Interior Finish Work

(a) Acid proof vinyl tile with base

Maker	HITACHI or equivalent
Size W x H x thickness	300 W x 300 H x 3 T
Quantity	
Main power house (m^2)	190.0
Technical building (m^2)	~~NA~~ 165 *
Auxiliary buildings (m^2)	NA

(b) Acoustic board (Incombustible)

Maker	NIHON HOON or equivalent
Material	ROCK WOOL
Size W x H x thickness	900 W x1,800 H x 12 T
Quantity	
Main power house (m^2)	830.0
Technical building (m^2)	~~NA~~ 450 *
Auxiliary buildings (m^2)	70.0

(c) Glass wool

Maker	NIHON ASBESTOS or equivalent
Thickness (mm)	50.0

* 5th Issue-B.4

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Quantity

Main power house	(m^2)	1,280
Technical building	(m^2)	-
Auxiliary buildings	(m^2)	-

(d) Suspended ceiling and ceiling access

Maker		NITTETSU SASH or equivalent
Material		
Main runner		SSC41
Cross furring		~~SSC 41~~ *
Quantity	(m^2)	2,650
Number of ceiling access		~~40 sets~~ *
Size of	(m)	~~600~~ W x 600 L *

(8) Elevator Work

(a) Elevator equipment

Maker		HITACHI LTD. or NIPPON OTIS
Capacity		600 (kg) 9 (person)
Control		Collective control
Speed	(m/min)	60 m/min
Car dimension	(m x m x m)	1.7 W x 2.3 L x 2.1 H
Door dimension	(m x m)	1.4 W x 2.1 H
Stops (floors)		5
Travel	(m)	40
Motor		5.5kW 380V 50 Hz

* 5th Issue-B.5
-B.10

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(9) Electrical Work for Stack

(a) Lighting system

. Lighting panel

Type		WALL MOUNTED
Thickness of steel plates	(mm)	1.6
Dimension		
Height	(mm)	600
Width	(mm)	500
Depth	(mm)	250
Weight	(kg)	50

. Cable

Cross-linked polyethylene insulated cable		REF. TO ATTACHMENT 85P6177-ML-110
Manufacturer		
Kind		HCV & HIV
Total length	(m)	1,900
Rigid steel conduit		REF. TO ATTCHMENT 85P6177-ML-110
Manufacturer		
Kind		STEEL
Total length	(m)	850

. Lighting fixture

Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Quantity and type	24 Sets : FL 40Wx2

S. Otsuka

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Aircraft varning light system

. Control panel

Type		SELF STANDING
Thickness of steel plates	(mm)	2.3
Dimension		
Height	(mm)	1,375
Width	(mm)	600
Depth	(mm)	600
Weight	(kg)	150

. Cable

Cross-linked polyethylene insulated cable		REF. TO ATTACHMENT 85P6177-ML-110
Manufacturer		
Kind		HCV & HCVVS
Total length	(m)	1,500
Rigid steel conduit		REF. TO ATTACHMENT 85P6177-ML-110
Manufacturer		
Kind		STEEL
Total length	(m)	700

. Aircraft varning light

Manufacturer	REF. TO ATTACHMENT 85P6177-ML-110
Quantity and type	8 Sets : HIGH INTENSITY LIGHT

16. Grade

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(c) Lightning protection system

. Elevation rod		
Type		Al-wire ø3.2 x 19
Manufacturer		REF.TO ATTACHMENT 85P6177-ML-110
Quantity		1 SET
. Test terminal box		
Type		WALL MOUNTED
Manufacturer		REF. TO ATTACHMENT 85P6177-ML-110
Thickness of steel plates	(mm)	3.0
Dimension		
Height	(mm)	350
Width	(mm)	120
Depth	(mm)	80
Weight	(kg)	10
. Annealed copper stranded conductor		REF. TO ATTACHMENT 85P6177-ML-110
Manufacturer		
Kind		ø2 x 13
Total length	(m)	500
. Conduit		
Unplasticized polyvinyl chloride conduit		REF. TO ATTACHMENT 85P6177-ML-110
Manufacturer		
Kind		VE 28
Total length	(m)	20

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

2. BUILDING SERVICE FACILITIES

(1) Air Conditioning and Ventilation System

		Main	Stand-by
(a) Absorption liquid chiller.			
Manufacturer		KAWASAKI or Carrier	KAWASAKI or Carrier
Number		16JS847	16JS810
Chilled water leaving temp.	(°C)	7	7
Cooling capacity	(US tons)	400	60
Chilled water			
Flow rate	(m^3/min)	4	0.6
Condensing water			
Flow rate	(m^3/min)	6.4	0.96
Steam			
Consumption rate	(kg/l)	1,799.96 kg/H	355.55 kg/H
Pressure (gage indication)	(kg/cm^2)	8.0	8.0
Pump motor capacity			
Solution	(kW)	5.5	2.2
Refrigerant	(kW)	0.75	0.4
Dimension	(mm)	5300x2020x2780	2990 x1725x2320
Weight	(kg)	14,900	6,900
Quantity	(set)	1	1

5th Issue-B.

(b) Air handling unit — Main power house

for Main power house	(1)	(2)	(3)
Manufacturer	TOYO CARRIER or SHINKO	TOYO CARRIER or SHINKO	TOYO CARRIE or SHINKO
Number	60DH	35DH	30DH

S. Ofuda

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Main power house

		(1)	(2)	(3)
Air volume	(CMH)	850	500	422
Chilled water				
Inlet	(°C)	7	7	7
Outlet	(°C)	12	12	12
Flow rate	(m^3/min)	0.635	0.29	0.27
Cooling capacity	(Kcal/h)	190,000	87,000	80,000
Pre-filter				
Filter element		NON WOVEN CLOTH	NON WOVEN CLOTH	NON WOVEN CLOTH
Fan motor	(kW)	30	11	11
Dimension	(mm)	3700x2300 x3600	3200x1600 x2900	2800x1600 x2900
Weight	(kg)	5220	2760	2340
Quantity	(set)	1	1	1

. Air handling unit for Administration building

Administration building

		(1)	(2)	(3)
Manufacturer		TOYO CARRIER or SHINKO	TOYO CARRIER or SHINKO	TOYO CARRIER or SHINKO
Number		22DH	22DH	35DH
Air volume	(CMH)	285	317	472
Chilled water				
Inlet	(°C)	7	7	7
Outlet	(°C)	12	12	12
Flow rate	(m^3/min)	0.31	0.35	0.5
Cooling capacity	(kcal/h)	91,900	104,600	148,500

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Administration building

		(1)	(2)	(3)
Pre-filter				
Filter element		NON WOVEN CLOTH	NON WOVEN CLOTH	NON WOVEN CLOTH
Fan motor	(kW)	11	11	18.5
Dimension	(mm)	2700x1400 x2700	2700x1400 x2700	3200x1600 x2900
Weight	(kg)	1,910	1,910	2,760
Quantity	(set)	1	1	1

Air handling unit for Administration building

Administration building

		(4)	(5)	
Manufacturer		TOYO CARRIER or SHINKO	TOYO CARRIER or SHINKO	NA
Number		25DH	30DH	NA
Air volume	(CMH)	351	408	NA
Chilled water				
Inlet	(°C)	7	7	NA
Outlet	(°C)	12	12	NA
Flow rate	(m^3/min)	0.38	0.43	NA
Cooling capacity	(kcal/h)	133,100	122,000	NA
Pre-filter				
Filter element		NON WOVEN CLOTH	NON WOVEN CLOTH	NA
Fan motor	(kW)	15	15	NA
Dimension	(mm)	2800x1600 x2800	2800x1600 x3000	NA
Weight	(kg)	2,140	2,340	NA
Quantity	(set)	1	1	NA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Air handling unit for Technical building

Technical building

		(1)	(2)	
Manufacturer		TOYO CARRIER or SHINKO	TOYO CARRIER OR SHINKO	NA
Number		35DH	13DH	NA
Air volume	(CMH)	485	175	NA
Chilled water				
Inlet	(°C)	7	7	NA
Outlet	(°C)	12	12	NA
Flow rate	(m^3/min)	0.45	0.16	NA
Cooling capacity	(kcal/h)	130,000	37,500	NA
Pre-filter				
Filter element		NON WOVEN CLOTH	NON WOVEN CLOTH	NA
Fan motor	(kW)	15	3.7	NA
Dimension	(mm)	3200x1600 x2900	1800x1300 x2600	NA
Weight	(kg)	2,760	1,140	NA
Quantity	(set)	1	1	NA

(c) Cooling tower — Main power house

Type		LOW NOISE	LOW NOISE	NA
Manufacturer		FUJI or SHINWA	FUJI or SHINWA	NA
Number		SDC-700AS	SDC-125AS	NA
Cooling water				
Ambient W.B. temp.	(°C)	28.6	28.6	NA
Inlet	(°C)	37.5	37.5	NA
Outlet	(°C)	32	32	NA
Flow rate	(m^3/min)	6.4	0.96	NA
Fan motor	(kW)	3.7	2.2	NA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Technical building

			(1)	(2)	
	Dimension	(mm)	4050x8320 x2450	3700x1870 x2450	NA
	Weight	(kg)	4380	1090	NA
	Quantity	(set)	1	1	NA
(d)	Chilled water pump				
	Type		SINGLE SUCTION CENTRIFUGAL TYPE		
	Manufacturer		KUBOTA, TAKASAGO or EBARA	KUBOTA, TAKASAGO or EBARA	NA
	Number		150x100IBLNB	100x80IBLK	NA
	Capacity	(l/min)	3900	600	NA
	Discharge pressure	(kg/cm^2)	6	2.5	NA
	Motor	(kW)	75	5.5	NA
	Weight	(kg)	792	254	NA
	Quantity	(set)	2	2	NA
(e)	Cooling water pump				
	Type		SINGLE SUCTION CENTRIFUGAL TYPE		
	Manufacturer		KUBOTA, TAKASAGO or EBARA	KUBOTA, TAKASAGO or EBARA	NA
	Number		200IBLJ	100x80IBLJ	NA
	Capacity	(l/min)	6400	960	NA
	Discharge pressure	(kg/cm^2)	2	2	NA
	Motor	(kW)	37	7.5	NA
	Weight	(kg)	564	217	NA
	Quantity	(set)	2	2	NA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(f) Supply fan

. for Main power house

Main power house

		(1)	(2)	(3)
Type		SINGLE SUCTION CENTRIFUGAL TYPE		
Manufacturer		MATSUSHITA or MITSUYA	MATSUSHITA or MITSUYA	NA
Number		MF-2 1/2	MF-5 1/2	NA
Capacity	(m^3/h)	4900	29700	NA
Static pressure	(mmAq)	15	20	NA
Motor	(kW)	1.5	7.5	NA
Weight	(kg)	86	471	NA
Quantity	(set)	1	1	NA

. Supply fan for Administration building

Administration building

		(1)	(2)	(3)
Type		OUT OF SCOPE		
Manufacturer				
Number				
Capacity	(m^3/h)			
Static pressure	(mmAq)			
Motor	(kW)			
Weight	(kg)			
Quantity	(set)			

. Supply fan for Technical building

Technical building

	(1)	(2)	(3)
Type	SINGLE SUCTION CENTRIFUGAL TYPE		
Manufacturer	MATSUSHITA or MITSUYA	NA	NA
Number	MF-2	NA	NA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Technical building

		(1)	(2)	(3)
Capacity	(m^3/h)	3040	NA	NA
Static pressure	(mmAq)	15	NA	NA
Motor	(kW)	0.75	NA	NA
Weight	(kg)	72	NA	NA
Quantity	(set)	1	NA	NA

· Supply fan for Auxiliary buildings

Auxiliary buildings

		(1)	(2)	(3)
Type		NA	NA	NA
Manufacturer		NA	NA	NA
Number		NA	NA	NA
Capacity	(m^3/h)	NA	NA	NA
Static pressure	(mmAq)	NA	NA	NA
Motor	(kW)	NA	NA	NA
Weight	(kg)	NA	NA	NA
Quantity	(set)	NA	NA	NA

· Supply fan for Auxiliary buildings

Auxiliary buildings

		(4)	(5)	(6)
Type		NA	NA	NA
Manufacturer		NA	NA	NA
Number		NA	NA	NA
Capacity	(m^3/h)	NA	NA	NA
Static pressure	(mmAq)	NA	NA	NA
Motor	(kW)	NA	NA	NA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Auxiliary buildings

		(1)	(2)	(3)
Weight	(kg)	NA	NA	NA
Quantity	(set)	NA	NA	NA

(g) Exhaust fan

Main power house

. for Main Power House

		(1)	(2)	(3)
Type		PROPELLER FAN		
Manufacturer		MATSUSHITA or KURITA	KURITA or MATSUSHITA	KURITA or MATSUSHITA
Number		PF-16BTB	FV-25AG2	FV-30AG2
Capacity	(m^3/h)	4500	900	1150
Static pressure	(mmAq)	3	-	-
Motor	(kW)	0.4	39W	40W
Weight	(kg)	33.3	5.6	6.5
Quantity	(set)	2	9	2

Main power house

. Exhaust fan for Main Power House

		(4)	(5)	(6)
Type		SINGLE SUCTION CENTRIFUGAL TYPE		
Manufacturer		MATSUSHITA or MITSUYA	MATSUSHITA or MITSUYA	MATSUSHITA or MITSUYA
Number		MF-2	MF-2-1/2	MF-5-1/2
Capacity	(m^3/h)	3100	4900	29700
Static pressure	(mmAq)	15	15	20
Motor	(kW)	0.75	1.5	7.5
Weight	(kg)	72	86	471
Quantity	(set)	1	1	1

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

- Exhaust fan for Administration building

Administration building

		(1)	(2)	(3)
Type		OUT OF SCOPE		
Manufacturer				
Number				
Capacity	(m^3/h)			
Static pressure	(mmAq)			
Motor	(kW)			
Weight	(kg)			
Quantity	(set)			

- Exhaust fan for Administration building

Administration building

		(4)	(5)	(6)
Type		OUT OF SCOPE		
Manufacturer				
Number				
Capacity	(m^3/h)			
Static pressure	(mmAq)			
Motor	(kW)			
Weight	(kg)			
Quantity	(set)			

- Exhaust fan for Technical building

Technical building

	(1)	(2)	(3)
Type	CENTRIFUGAL FAN	PROPELLER FAN	
Manufacturer	MATSUSHITA or MITSUYA	KURITA or MATSUSHITA	KURITA or MATSUSHITA
Number	MF-2	PF-14BSA	PF-12BSB

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Technical building

		(1)	(2)	(3)
Capacity	(m^3/h)	3040	2700	1800
Static pressure	(mmAq)	15	-	-
Motor	(kW)	0.75	0.1	0.05
Weight	(kg)	72	11.5	5.6
Quantity	(set)	1	1	1

. Exhaust fan for Technical building

Technical building

		(4)	(5)	(6)
Type		PROPELLER FAN		CEILING FAN
Manufacturer		KURITA or MATSUSHITA	KURITA or MATSUSHITA	KURITA or MATSUSHITA
Number		FV-25AG2	FV-25AG2	FV-20BET
Capacity	(m^3/h)	740	580	200
Static pressure	(mmAq)	-	-	5
Motor	(kW)	0.039	0.039	0.067
Weight	(kg)	5.6	5.6	8.2
Quantity	(set)	1	8	2

. Exhaust fan for Auxiliary buildings

Auxiliary buildings

		(1)	(2)	(3)
Type		PROPELLER FAN		
Manufacturer		KURITA or MATSUSHITA	KURITA or MATSUSHITA	KURITA or MATSUSHITA
Number		FV-25AG2	PF-14BSA	PF-12BSB
Capacity	(m^3/h)	540	2000	1240
Static pressure	(mmAq)	--	-	-
Motor	(kW)	0.039	0.1	0.05

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Auxiliary buildings

		(1)	(2)	(3)
Weight	(kg)	5.6	22.9	11.5
Quantity	(set)	2	2	1

(h) Roof fan

Main power house

. for Main power house

		(1)	(2)	(3)
Type		ROOF FAN	NA	NA
Manufacturer		MATSUSHITA or KAMAKURA	NA	NA
Number		RF-52H	NA	NA
Capacity	(m^3/h)	71400	NA	NA
Static pressure	(mmAq)	5	NA	NA
Motor	(kW)	5.5	NA	NA
Weight	(kg)	750	NA	NA
Quantity	(set)	18	NA	NA

. Roof fan for Auxiliary buildings

Auxiliary buildings

		(1)	(2)	(3)
Type		ROOF FAN	ROOF FAN	ROOF FAN
Manufacturer		MATSUSHITA or KAMAKURA	MATSUSHITA or KAMAKURA	MATSUSHITA or KAMAKURA
Number		RF-30H	RF-24H	RF-42H
Capacity	(cm^3/h)	11,900	8,400	22,500
Static pressure	(mmAq)	5	5	5
Motor	(kW)	1.5	0.75	2.2
Weight	(kg)	170	110	350
Quantity	(set)	2	4	4

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Auxiliary buildings

		(1)	(2)	(3)
Weight	(kg)	refer to page DA-24-1		
Quantity	(set)			

(h) Roof fan

Main power house

. for Main power house

		(1)	(2)	(3)
Type				
Manufacturer				
Number				
Capacity	(m^3/h)			
Static pressure	(mmAq)			
Motor	(kW)			
Weight	(kg)			
Quantity	(set)			

. Roof fan for Auxiliary buildings

Auxiliary buildings

		(4)	(5)	(6)
Type		ROOF FAN	ROOF FAN	ROOF FAN
Manufacturer		MATSUSHITA OR KAMAKURA	MATSUSHITA OR KAMAKURA	MATSUSHITA OR KAMAKURA
Number		RF-30H	RF-30H	RF-30H
Capacity	(cm^3/h)	12800	15300	3820
Static pressure	(mmAq)	5	5	5
Motor	(kW)	1.5	1.5	0.4
Weight	(kg)	170	170	90
Quantity	(set)	2	3	1

10. Yonezu

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

			Auxiliary buildings (1)	(2)	(3)
	Weight	(kg)	. refer to page DA-24-1		
	Quantity	(set)			
(h)	Roof fan				
	. for Main power house		Main power house (1)	(2)	(3)
	Type				
	Manufacturer				
	Number				
	Capacity	(m^3/h)			
	Static pressure	(mmAq)			
	Motor	(kW)			
	Weight	(kg)			
	Quantity	(set)			
	. Roof fan for Auxiliary buildings		Auxiliary buildings ~~(1)~~ (7)	~~(2)~~ (8)	~~(3)~~
	Type		ROOF FAN	ROOF FAN	
	Manufacturer		MATSUSHITA OR KAMAKURA	MATSUSHITA OR KAMAKURA	
	Number		RF-16H	RF-16H	
	Capacity	(cm^3/h)	1920	2800	
	Static pressure	(mmAq)	5	5	
	Motor	(kW)	0.25	0.25	
	Weight	(kg)	45	45	
	Quantity	(set)	1	1	

M. Honda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(i) Air filter

. for Main pover house

Main pover house

		(1)	(2)	(3)
Type		AUTOMATIC ROLL TYPE		
Manufacturer		SINKO KOGYO or equivalent		
Number		60DH	35DH	30DH
Capacity	(m^3/h)	51,000	30,000	25,300
Air velocity	(m/sec)	1.92	2.0	1.96
Material				
Filter element		VILEDON FRN-285N		
Pressure loss	(mmAq)	16	16	16
Dust collection efficiency		83.1%	83.1%	83.1%
Motor	(kW)	0.1	0.1	0.1
Dimension	(mm)	3700x2300x560	3200x1700x560	2700x1700x560
Quantity	(set)	1	1	1

. Air filter for Administration building

Administration building

		(1)	(2)	(3)
Type		AUTOMATIC ROLL TYPE		
Manufacturer		SINKO KOGYO or equivalent		
Number		22DH	22DH	35DH
Capacity	(m^3/h)	17,110	19,040	28,330
Air velocity	(m/sec)	1.66	1.85	1.88
Material				
Filter element		VILEDON FRN-285N		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(i) Air filter

~~for Main power house~~ ~~Main power house~~

		(1)	(2)	(3)
Type				
Manufacturer				
Number				
Capacity	(m^3/h)			
Air velocity	(m/sec)			
Material				
Filter element				
Pressure loss	(mmAq)			
Dust collection efficiency				
Motor	(kW)			
Dimension	(mm)			
Quantity	(set)			

· Air filter for Administration building

Administration building

		~~(1)~~ (4)	~~(2)~~ (5)	~~(3)~~
Type		AUTOMATIC ROLL TYPE		
Manufacturer		SINKO KOGYO or equivalent		
Number		25DH	30DH	
Capacity	(m^3/h)	21,080	24,450	
Air velocity	(m/sec)	1.84	1.89	
Material				
Filter element		VILEDON FRN-285N		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Administration building

		(1)	(2)	(3)
Pressure loss	(mmAq)	16	16	16
Dust collection efficiency		83.1%	83.1%	83.1%
Motor	(kW)	0.1	0.1	0.1
Dimension	(mm)	2685x1500x560	2685x1500x560	3200x1700x560
Quantity	(set)	1	1	1

. Air filter for Technical building

Technical building

		(1)	(2)	(3)
Type		AUTOMATIC ROLL TYPE		
Manufacturer		SINKO KOGYO or equivalent		
Number		35DH	13DH	
Capacity	(m^3/h)	29,100	10,500	
Air velocity	(m/sec)	1.94	1.69	
Material				
Filter element		VILEDON FRN-285N		
Pressure loss	(mmAq)	16	16	
Dust collector efficiency		83.1%	83.1%	
Motor	(kW)	0.1	0.1	
Dimension	(mm)	3200x1700x560	1700x1400x560	
Quantity	(set)	1	1	

(J) Expantion tank

Type		SQUARE	NA	NA
Manufacturer		KIKUCHI ONSUI KOGYO		
Capacity	(m^3)	1		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Administration building

		~~(1)~~(4)	~~(2)~~(5)	~~(3)~~
Pressure loss	(mmAq)	16	16	
Dust collection efficiency		83.1%	83.1%	
Motor	(kW)	0.1	0.1	
Dimension	(mm)	2700x1700x560	2700x1700x560	
Quantity	(set)	1	1	

~~Air filter for Technical building~~ ~~Technical building~~

		(1)	(2)	(3)
Type				
Manufacturer				
Number				
Capacity	(m^3/h)			
Air velocity	(m/sec)			
Material				
Filter element				
Pressure loss	(mmAq)			
Dust collector efficiency				
Motor	(kW)			
Dimension	(mm)			
Quantity	(set)			
(j) Expantion tank				
Type				
Manufacturer				
Capacity	(m^3)			

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Technical building

		(1) 1000x1000 x1200	(2)	(3)
Dimension	(mm)		NA	NA
Weight	(kg)	324	NA	NA
Quantity	(set)	1	NA	NA

(k) Piping

Main pover house

	Material	Size (mm)	Weight of piping (t)
Chilled water line	Galvanized Carbon Steel Pipe	25 - 250	11.24
Cooling water line	do.	80 - 250	4.76
Steam line	do.	25 - 65	0.610
Drainage line	do.	50	0.027

	Size (mm)	Set
Valve	25 - 250	68

Technical building

	Material	Size (mm)	Weight of piping (t)
Chilled water line	Galvanized Carbon Steel Pipe	65 - 100	0.582
Drainage line	do.	50	0.053

	Size (mm)	Set
Valve	65 - 100	6

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Administration building

	Material	Size (mm)	Weight of piping (t)
Chilled water line	Galvanized Carbon Steel Pipe	20 - 150	1.85
Drainage line	do.	50	0.133

	Size (mm)	Set
Valve	20 - 150	26

Others

	Material	Size (mm)	Weight of piping (t)
Chilled water line	Galvanized Carbon Steel Pipe	25 - 150	20.65
Drainage line	do.	50	0.02

	Size (mm)	Set
Valve	25 - 150	12

(1) Ducting

Galvanized sheet		Main power house	Administration building	Technical building
Thickness				
1.2 mm	(m^2)	NA	NA	NA
1.0 mm	(m^2)	50	93	NA
0.8 mm	(m^2)	1798	755	208
0.6 mm	(m^2)	722	402	128
0.5 mm	(m^2)	471	327	272
Diffuser	(set)	138	110	63
Damper	(set)	20	47	9

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(m) Insulation and lagging

Pipe		
Material		GLASS WOOL
Length	(m)	2880
Duct		
Material		GLASS WOOL
Area	(m^2)	4780

(n) Painting

Pipe		
Material		OIL PAINT
Duct		
Material		OIL PAINT

(2) Water Supply, Sewage and Sanitary System

(a) Electric water heater

		Main power house	Technical building
Type		Instantaneous Electric Heater	NA
Manufacturer		NIHON ITOMIC or Equal	NA
Number		ES-80K	NA
Heater capacity	(kW)	80	NA
Dimension	(mm)	700x990x1590	NA
Weight	(kg)	315	NA
Quantity	(set)	1	NA

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Electric vater heater

		Main power house	Technical building
Type		Electric Storage Heater	
Manufacturer		NIHON ITOMIC or Equal	
Number		VS-VN	VS-VN
Vater storage capacity (U.S. gallon)		14	14
Heater capacity	(kW)	1.5	1.5
Dimension	(mm)	392x205x320	392x205x320
Veight	(kg)	13	13
Quantity	(set)	1	1

(c) Vaste vater pump

Type		Submersible	Submersible
Manufacturer		EBARA, KUBOTA or HONDA KIKO	
Number		50DSA	50DSA
Capacity	(l/min)	200	200
Discharge pressure	(kg/cm^2)	1.0	1.0
Motor	(kW)	3.7	3.7
Veight	(kg)	70	70
Quantity	(set)	1	1

(d) Valve

	Main power house	
	Size (mm)	Set
Valve (65A or over)	100	1
	65	1
	-	-
	-	-

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Technical building

	Size (mm)	Set
Valve (65A or over)	80	1
	-	-
	-	-
	-	-

Auxiliary buildings

	Size (mm)	Set
Valve (65A or over)	-	-
	-	-
	-	-
	-	-

(e) Insulation and lagging

Material		Silicate Calcium
Length	(m)	1 set

(f) Equipment for septic tank

		Main power house	Technical building
Capacity	(m^3/day)	6.0	5.0
BOD concentration in discharge water	(ppm)	60	60
Blower capacity	(m^3/h)	12	12
Waste pump capacity	(m^3/h)	NA	NA
Accessories		YES	YES

M. Uyuda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(3) Secondary Electrical and Automatic Control Equipment

(a) Control panel

. for Main power house

Main power house

		AHU-1 WALL MOUNTED	AHU-2,-3 WALL MOUNTED
Type			
Thickness of steel plates	(mm)	2.3	2.3
Dimension			
Height	(mm)	600	600
Width	(mm)	500	500
Depth	(mm)	200	200
Weight	(kg)	49	45
Accessories		YES	YES

. Control panel for Technical building

Technical building

		AHU-1 WALL MOUNTED	AHU-2 WALL MOUNTED
Type			
Thickness of steel plates	(mm)	2.3	2.3
Dimension			
Height	(mm)	600	600
Width	(mm)	500	500
Depth	(mm)	200	200
Weight	(kg)	45	45
Accessories		YES	YES

(6. sheets)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Administration building

		AHU-1	AHU-2,4	AHU-3,5
. Control panel for Administration building				
Type		WALL MOUNTED	WALL MOUNTED	WALL MOUNTE
Thickness of steel plates	(mm)	2.3	2.3	2.3
Dimension				
Height	(mm)	600	800	800
Width	(mm)	500	600	600
Depth	(mm)	200	200	200
Weight	(kg)	45	65	65
Accessories		YES	YES	YES

. Other panels for Main poverhouse ~~Main power~~ Ware house

Type		WALL MOUNTED		
Thickness of steel plates		2.3		
Dimension				
Height	(mm)	600		
Width	(mm)	500		
Depth	(mm)	200		
Weight	(kg)	49		
Accessories		YES		

M. Honda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Technical building

. Other panels for Technical building

Type

Thickness of steel plates

Dimension

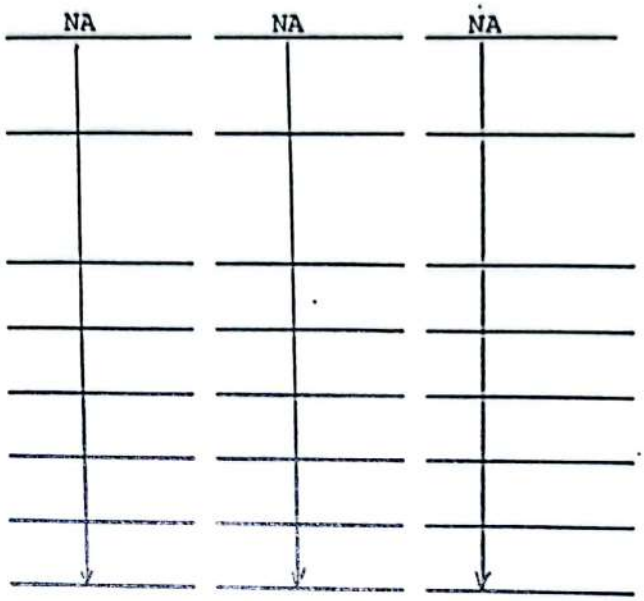
Height (mm)

Width (mm)

Depth (mm)

Weight (kg)

Accessories



Administration building

. Other panel for Administration building

Type

Thickness of steel plates

Dimension

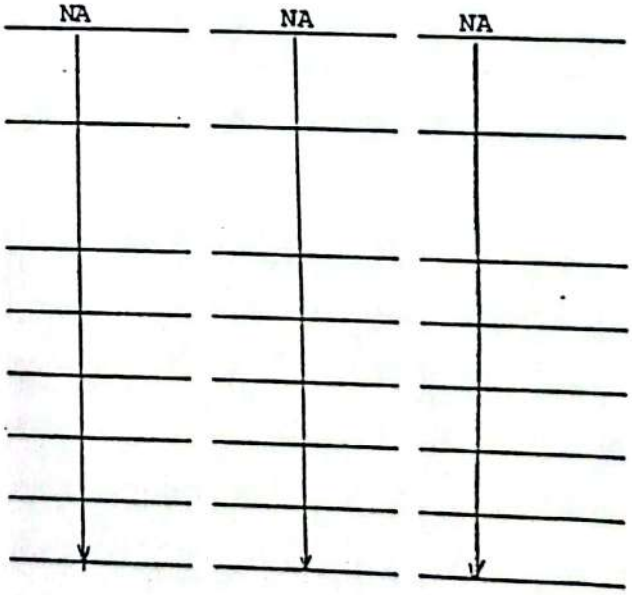
Height (mm)

Width (mm)

Depth (mm)

Weight (kg)

Accessories



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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(b) Cable

	Main power house 600V	Technical building 600V	Administration building 600V
. Power cable			
Manufacturer	SUMITOMO or FURUKAWA		
Kind	PVC CONTROL CABLE		
Total length (m)	270	70	160
. Control cable			
Manufacturer	SUMITOMO or FURUKAWA		
Kind	POLYETHYLENE INSULATED JINEL SHEATHED CABLE		
Total length (m)	430	130	300
. Others			
Manufacturer	NA	NA	NA
Kind			
Total length (m)			

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

	Main power house 600V	Technical building 600V	Administration building 600V
. Conduit			
Manufacturer	FUJI ELECTRIC or MARUICHI	FUJI ELECTRIC or MARUICHI	FUJI ELECTRIC or MARUICHI
Kind	GALVANIZED	GALVANIZED	GALVANIZED
Total length (m)	393	180	396
. Cable tray			
Manufacturer	NA	NA	NA
Kind			
Total length (m)			
Total weight (kg)			

(c) Automatic control equipment

Type	ELECTRIC
Manufacturer	FUJI ELECTRIC or YAMATAKE HANEYWELL
Kind and quantity	THERMSTAT 13 EA
	3-WAY VALVE 12 EA
	MODITROL MOTER 12 EA

(d) Painting

Material	STANDARD

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

3. INTAKE WATER STRUCTURES

11th Issue 17-a/b
15th Issue 46

(1) Piping Bridge

(a) Structural dimensions

Span length	(m)	50.0
Height of main truss	(m)	4.0
Width between main trusses	(m)	4.1

(b) Structural data

. Structural steel

Material [Grade]		SS41 conforming to JIS G3101
Size of the major members		
Upper chord of main truss		H-300 x 300 x 10/15
Lover chord of main truss		H-300 x 300 x 10/15
Diagonal member of main truss		H-294 x 200 x 8/12
Lateral bracings		L-150 x 150 x 12
Portal bracings		H-300 x 300 x 10/15
Total weight	(ton)	214

. Splices and connections

High strength bolts		
Material		M22, F10T conforming to JIS B1186
Number of bolts		9,600

. Paintings

5th Issue-B.7

Material		Oil painting 3 coats
Area	(m^2)	4,650

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

. Bearings

Type		Sliding plate type
Material		Cast iron, Copper alloy
Size of the bottom shoe plate	(mm)	
Fixed		510 x 280
Movable		510 x 280

(c) Footway

. Floor

Material		steel grating (SS41) t = 25mm
Area	(m^2)	265
Weight	(kg)	9,120

. Handrail

Material		size 40^{A}-25^{A} (SGP) L-75x75x6 L-150x75x6.5/10
Height	(m)	1.1
Total length	(m)	400
Weight	(kg)	13,350

(2) Bridge Piers (P1 - P4)

(a) Piles

Diameter	(m)	1.2
Number of piles		16
Total length	(m)	300
Concrete		
Total volume	(m^3)	340

H. Honda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Reinforcing bars

	Diameter (mm)	Weight (ton)
	D13 ~ D29	39
	-	-

Steel casing

Material [Grade]		Steel pipe STK41
Diameter	(m)	ø 1,219.2
Thickness	(mm)	9.5
Total weight	(ton)	24

(b) Concrete slab and bracings

. Dimensions of the slab (plan)

P1	(m)	4.5 x 6.5
P2 - P4	(m)	4.5 x 6.5

. Concrete

Total volume	(m^3)	130

. Reinforcing bars

	Diameter (mm)	Weight (ton)
	D13 ~ D32	15
	-	-
	-	-

. Structural steel

Material [Grade]		SS41	STK41
Major members		H-300x300x10/15,	1,219.2x9.5
Weight	(ton)	32	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

(3) Intake tower

(a) Piles

Diameter	(m)	1.2
Number of piles		10
Total length	(m)	240
Concrete		
Volume	(m^3)	280
Reinforcing bars		

Diameter (mm)	Weight (ton)
D13~D29	31
-	-
-	-

Steel casing

Material [Grade]		Steel pipe STK41
Diameter	(m)	ϕ 1,219.2
Thickness	(mm)	9.5
Weight	(ton)	32

(b) Concrete slab and bracings

. Dimensions of the plab [plan] (m)

9.0 x 19.2

. Concrete

Material (Fc: kg/cm^2)		FC=210
Volume	(m^3)	185

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

. Reinforcing bars

	Diameter (mm)	Weight (ton)
	D13~D32	22
	-	-
	-	-

. Structural steel

Material [Grade]		SS41, STK41
Major members		H-300x 300x 10/15
		ø 1,219.2 x 9.5
Weight	(ton)	30

(c) Steel frame supporting overhead crane

Material [Grade]		SS41
Major members		H-400x400x13/21
		-
		-
Weight	(ton)	10

(d) Miscellaneous facilities

. Roofing

Material		SGP25 galvanized steel sheet, 0.8mm core sheet thickness
Area	(m^2)	90

. Handrail

Material		SGP
Height	(m)	1.1
Length	(m)	56
Weight	(kg)	1,870

M. Yonda

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1, Nursery Lane
Lawrence Road
LAHORE

Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

. Cover plates

Material		Checkerd Plate
~~Size and~~ thickness	(mm)	6.0
~~Number of plates~~ Area	(m^2)	3.0

(4) Valve pit

(a) Dimensions of the pit [inside] (m) 5th Issue-B.8

~~6~~ x ~~3.5~~ x ~~7~~
~~(Height)~~ (Depth)

(b) Piles (both for the pit and intake water control room)

Diameter	(m)	1.2
Number of piles		8
Total length	(m)	100
Concrete		
Volume	(m^3)	115

Reinforcing bars

Diameter (mm)	Weight (ton)
D13~D29	13
-	-

(c) Reinforced concrete

. Concrete

Volume	(m^3)	520

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

. Reinforcing bars

Diameter (mm)	Weight (ton)
D13~D32	52

(d) Earthwork

Excavation	(m^3)	350
Riprap	(m^3)	24
Leveling concrete	(m^3)	8
Backfilling	(m^3)	140

5th Issue-B.10

(5) Temporary Work

(a) Erection scheme

The Bidder shall brief the erection scheme of the intake water structures.

The trusses of bridge will be assembled on the construction yard, and are transported to the position of erection with two cranes on the temporary staging, and then the trusses are installed on the piers.

(b) Temporary facilities

The Bidder shall name the necessary facilities, including required area of construction yard by the intake site, in accordance with his erection scheme.

1) Construction yard : 100m x 100m
2) Warehouse : 500 m^2

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SECTION VIII

SCHEDULE OF CONTRACTOR'S REPRESENTATIVES, MANUFACTURER'S SPECIALISTS, ERECTION SPECIALISTS, TECHNICIANS, ERECTION WORKERS AND LABORS, AND TECHNICAL ADVISERS

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

VIII. SCHEDULE OF CONTRACTOR'S REPRESENTATIVES, MANUFACTURER'S SPECIALISTS, ERECTION SPECIALISTS, TECHNICIANS, ERECTION WORKERS AND LABORS, AND TECHNICAL ADVISERS

Position	Number of Persons	Months	Total Man-Month	Remarks
1. CONTRACTOR'S REPRESENTATIVES				
(1) Superintendent	1	27	27	
(2) Deputy superintendent	1 1	25 22	47	
(3) Administrator	1 1	24 23		
(4) Electrical engineer	1	9	9	
(5) Safety engineer	included	in item	1.(2)	
(6) Clerk	-	-	-	
2. Manufacturer's specialists				
2.1 Manufacturer's specialists for installation				
(1) Steam generator	2	17	34	
(2) Steam generator auxiliaries				
(a) Soot blower (b) Air preheater (c) Forced draft	1	17	17	
(d) Burner control (e) Boiler control	2	7	14	
(f) Compressor (g) Control equipment	included	in item	2.1(2)(a)-(e)	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
(3) Steam turbine	1	13	13	
(4) Steam turbine auxiliaries				
(a) Condenser	1	7	7	
(b) Boiler feed pump	1	3	3	
(c) Cooling tover	1	4	4	
(5) Common auxiliaries				
(a) Fire protection	1	4	4	
(b) Chlorination equipment	1	3	3	
(c) House boiler	included in 2.1(2)(a)-(c)			
(d) Fuel oil unloading and receiving facilities				
(6) Generator and electrical equipment				
(a) Generator	1	10	10	
(b) Excitation system	included in item 2.1(6)(a)			
(c) Isolated phase bus duct	1	4	4	
(d) Main, auxiliary and starting transformer	1	3	3	
(e) M/C, P/C, C/C	1	16	16	
(f) Battery and charger				
(g) PABX and communication system				

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
(h) Emergency diesel engine	included in item 2.1(6)(a)			
(i) Grid station equipment	included in item 2.1(4)			
(7) Computer system	included in item 2.1(6)(e)-(g)			
(8) Architectural/structural and building service facilities				
(a) Main power house and auxiliary buildings general	1 1 1	31 23 19	73	
(b) Steel structure fabrication	1	12	22	
(c) Steel structure erection	2	5.		
(d) Air conditioning & ventilating	1	1	1	
(e) Water supply/sevage and sanitary	2	4	8	
(f) Stack erection	included in item 2.1(8)(a)-(e)			
(g) Elevator	included in item 2.1(4)			
(9) Civil works				
(a) Steel truss (b) Shoe of piping bridge	2	12	24	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
2.2 Manufacturer's specialists for operation (Startup engineer)				
(1) Steam generator	5	5	25	
(2) Steam generator auxiliaries				
(3) Steam turbine	1	9	14	
(4) Steam turbine auxiliaries	1	5		
(5) Generator	1	10	20	
	1	8		
(6) Electric equipment	1	2		
(7) Chemist	1	3	3	
(8) Main, aux. and starting transformer	included in item 2.2(5),(6)			
(9) Computer system	-	-	-	
(10) Air conditioning	4	2	8	
(11) Elevator	1	1	1	

(to upgrade...)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
2.3 Technical Advisers for operation and maintenance advise after taking over				
(1) For steam generator and auxiliary equipment				
(a) Education High School or University Graduate	1	12	12	Add.2-2
(b) Experience 6 - 10 years				
(2) For steam turbine and auxiliary equipment				
(a) Education High School or University Graduate	1	12	12	
(b) Experience 6 - 10 years				
(3) For control system				
(a) Education High School or University Graduate	1	12	12	
(b) Experience 6 - 10 years				

(G. Uyeda)

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
3. Erection specialists, technicians and labors				
3.1 Erection specialists				
(1) Steam generator	3	11	33	
(2) Steam generator auxiliaries				
(3) Steam turbine	4	11	44	
(4) Steam turbine auxiliaries	2	16	41	
(5) Common auxiliaries	1	9		
(6) Generator and electrical equipment	2	14	50	
	2	11		
(7) Computer system	2	12	24	
(8) Superstructure for main power house	2	12	24	
(9) Piping bridge	1	11	11	
(10) Piping, welding	2	13	48	
	2	11		
(11) Others	8	-	35	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
3.2 Erection technician				
(1) Foreman	62	-	967	
(2) Truck crane operator	10	-	118	
(3) Overhead crane operator	included in item 3.1(4)or(5)			
(4) Welder	52	-	754	
(5) Electrician (6) Control and Instrument	124	-	1,410	
(7) Piping	50	-	850	
(8) Concrete work	180	-	1,080	
(9) Other skilled worker	62	-	1,018	
(10) Painter, Insulation work and other	110	-	660	

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Position	Number of Persons	Month	Total Man-Month	Remarks
3.3 Erection workers and labors				
(1) Expatriate	2	-	20	
(2) Domestic	416	-	5,844	
The Tenderer shall indicate the kind of job to be done by labor hired in Pakistan.				

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SECTION IX

ERECTION EQUIPMENT AND TOOL LIST

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

IX. ERECTION EQUIPMENT AND TOOL LIST

The Tenderer shall indicate the necessary erection equipment and tools to be considered using for erection work, test and trial operation.

Name	Q'ty	Specification	Remarks
Truck Crane.	1	112 TON	
ditto	1	45 TON	
ditto	2	35 TON	
ditto	1	25 TON	
ditto	2	20 TON	
ditto	2	15 TON	
Truck with Heist	1		
Flat Body Truck	3	20 TON	
Truck	1	10 TON	
Trailer	1	40 TON	
Forklift	2	5 TON	
Winch	2	40 KW	
ditto	2	20 KW	
ditto	2	15 TON	
ditto	2	2 TON	

Id. Yasuda

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Name	Q'ty	Specification	Remarks
Pulley Block	4	50 TON	
ditto	20	5 - 15 TON	
Shackle	4	50 TON	
ditto	35	1" - 13/4"	
Chain Block	6	15 TON	
ditto	14	1 - 10 TON	
Jack	4	100 TON	
ditto	2	50 TON	
ditto	4	5 - 25 TON	
Air Compressor	4	350 CFM	
Hydraulic Test Pump	1	500 KG/cm^2	
ditto	1	200 KG/cm^2	
ditto	1	150 KG/cm^2	
Impact Wrench	3		
Torque Wrench	3		
Roller Carrier	2	50 TON	
Condensor Tube Expander	2		
Welding Machine	74		
Dryer for Welding Rod	5		
Gas Cutting Burner	9		
Burner for Pre-heating	3		
Annealing Unit	2		
X-ray Unit	2		

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Tenderer's Data Sheet

MITSUI & CO., LTD.
(Tenderer's Name)

Name	Q'ty	Specification	Remarks
Transit	4		
Ampere Meter (AC DC)	5		
Cable Pare Checker	4		
Circuit Tester	15		
Pipe Cutter	6		
Pipe Bender	3		
Jin Pole	1	150 TON	
Engine Welder	2		
Engine Compressor	1		
Others	1 set		
for Thermal Insulation			
for Painting			
for Electrical			

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Tenderer's Data Sheet (s

MITSUI & CO., LTD.
(Tenderer's Name)

Name	Q'ty	Specification	Remarks

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TURBINE SECTION UNITNO.2,3 & 4

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
1	H.P Cylinder AB	N-210-130-535-535 Make: Harbin Turbine Works	55.011Z-1(B)	3	4578	13734
2	I.P Cylinder	N-210-130-535-535 Make: Harbin Turbine Works	69.015 Z (B)	3	2194.3	6582.9
3	L.P Cylinder	N-210-130-535-535 Make: Harbin Turbine Works	69.021Z-2(B)	3	3297	9891
4	H.P Main Steam Pipe	N-210-130-535-535 Make: Harbin Turbine Works	55.081Z (B)	3	9941	29823
5	I.P Main Steam Pipe	N-210-130-535-535 Make: Harbin Turbine Works	55.083Z (B)	3	13065	39195
6	Diaphragm Carrier	N-210-130-535-535 Make: Harbin Turbine Works	69.036Z(B)	30		
7	Diaphragm AB	N-210-130-535-535 Make: Harbin Turbine Works	69.100Z(B)	3	299.8	899.4
8	Cross over pipe	N-210-130-535-535 Make: Harbin Turbine Works	69.091Z-1(B)	6	3995.2	23971.2
9	Inlet pipe	N-210-130-535-535 Make: Harbin Turbine Works	55.085Z-1(B)	6	4281	25686
10	HP Rotor AB	N-210-130-535-535 Make: Harbin Turbine Works	69.276Z-1(B)	3	6404	19212
11	HP Blades Assembly	N-210-130-535-535 Make: Harbin Turbine Works	69.201Z(B)	36	535	19260
12	IP Blades Assembly	N-210-130-535-535 Make: Harbin Turbine Works	69.202Z(B)	60	1604	96240
13	HP Main stop Control Valve	N-210-130-535-535 Make: Harbin Turbine Works	55.301Z-1(B)	12	9295	111540
14	Intercept Valve	N-210-130-535-535 Make: Harbin Turbine Works	55-341Z(B)	6	721	4326
15	Enclosure For L.P Exhaust Hood	N-210-130-535-535 Make: Harbin Turbine Works	69.151.127 Z(B)	3	1116	3348
16	Coupling Between IP & LP Rotor	N-210-130-535-535 Make: Harbin Turbine Works	69.287Z-1(B)	3	2492	7476
17	Coupling Between Turbine & Generator	N-210-130-535-535 Make: Harbin Turbine Works	69.288Z(B)	3	2138	6414
18	Jacking Equipment for Rotor	N-210-130-535-535 Make: Harbin Turbine Works	69.603Z-1(B)	3	518	1554
19	Journal Bearing#1 Ø250mm	N-210-130-535-535 Make: Harbin Turbine Works	69.050Z(B)	3	174.8	524.4
20	Journal Bearing#3 Ø360 mm	N-210-130-535-535 Make: Harbin Turbine Works	69.057Z(B)	3	340	1020

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
21	#1 Bearing Pedestal	N-210-130-535-535 Make: Harbin Turbine Works	69.061Z-1(B)	3	4691.66	14074.98
22	#2 Bearing Pedestal	N-210-130-535-535 Make: Harbin Turbine Works	55.62Z(B)	3	6266	18798
23	IP stop valve servo motor	N-210-130-535-535 Make: Harbin Turbine Works	55.037Z(B)	6	947	5682
24	Electro Hydraulic Convertor	N-210-130-535-535 Make: Harbin Turbine Works	69.320Z-3(B)	3	259	777
25	Servo motor of HP Stop valve	N-210-130-535-535 Make: Harbin Turbine Works	69.302Z(B)	6	590	3540
26	LP Heater Type: JD-350-10 TUBE Ø 18x2 L=2000 Material: Steel Tube	N-210-130-535-535 Make: Harbin Turbine Works	R-76.00Z(B)	3	10099	30297
27	Gland steam Condenser Type: JQ-70-4 TUBE Ø 18x2 L=2000 Material: Steel Tube	N-210-130-535-535 Make: Harbin Turbine Works		3	2926	8778
28	L.P Heater Type: JD- 350-9	N-210-130-535-535 Make: Harbin Turbine Works	R75.00Z(B)	3	10161	30483
29	L.P Heater Type: JD- 350-11	N-210-130-535-535 Make: Harbin Turbine Works	R77.00Z(B)	3	100.64	301.92
30	L.P Heater with super heating section Type: JD-350-8 Heating surface: 350m²	N-210-130-535-535 Make: Harbin Turbine Works Tube size: Ø 19x1 Tube Material: B30	R74.00Z(B)	3	10267	30801
31	Steam Air Ejector Type: C-100-65	N-210-130-535-535 Make: Harbin Turbine Works	C45.00Z(B)	6	4600	27600
32	Starting Air Ejector Type: CD-350-490-1	N-210-130-535-535 Make: Harbin Turbine Works	C44.00Z(B)	3	161.1	483.3
33	Pneumatic Operated Non Return Valve Type: FH-30-500-4	N-210-130-535-535 Make: Harbin Turbine Works	F76.00Z(B)	3	1777	5331
34	Oil coolers Type: YL-160	N-210-130-535-535 Tube Diameter: Ø19x1 mm Tube Material: HSn 70-1 Tube Num: 900 pieces Yube length: 2980mm	J27.00Z(B)	9	5582.1	50238.9
35	Drain flash Tank Type : SW-0.8-1	N-210-130-535-535 Make: Harbin Turbine Works	SW05.00Z(B)	3	667	2001
36	Air Tank Type: (CG-10-1)	N-210-130-535-535 Make: Harbin Turbine Works	CG01.00Z(B)	3	1327	3981

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
37	Condenser Type:N-13490	Cooling surface:13490m² Tube size: Ø25x1 (HSn 70-1A) Ø25x1.5 (HSn 70-1A) Ø25x1 (B30)	N24.00Z	3	352.915 Ton	1058.745 Ton
38	No.2 Thrust- Journal Bearing Ø300	N-210-130-535-535 Make: Harbin Turbine Works	69.051Z	3		
39	No.4 & 5 Journal Bearing Ø360	N-210-130-535-535 Make: Harbin Turbine Works	69.058Z	6	680	4080
40	Main oil reservoir Make: Harbin Turbine	N-210-130-535-535 Volume: 24m³	69.420Z(B)	3	7274	21822
41	Starting oil pump Make: Harbin Turbine	N-210-130-535-535 Max. Oil flow 3300 l/min	69.450Z(B)	3	2274	6822
42	D.C Emergency oil pump Make: Harbin Turbine	N-210-130-535-535 Max. Oil flow 2130 l/min	69.452Z(B)	3	495	1485
43	Condensate pumps Model : 7LDTN-7-A Manufacturer: SHENYANG PUMP Factory China	N-210-130-535-535 Make: Harbin Turbine Works Capacity: 275m³/h		9		
44	H.P BYPASS Valve Type: ARS-112 Make : SULZER	1. Electro hydraulic components 2. Spray water control valve type E32S 3. Hydraulic Unit		3		
45	Boiler Feed Water Pump	Type : 40CHTA/6		9		
46	Feed Water Booster Pump	Type : YNKn300/200		9		
47	Service Air compressor Type : 2Z-3/8-1(528) Model : 4L- 20/8	Capacity: 21.5 m³/min Discharge pressure: 8 k.gf/cm² Over-all dimensions : 2260x1550x1935 mm Rated speed 400 r.p.m		6	2800	16800
48	Instrument Air compressor Non lubricated.	Type : 2D3.5(14)-20/8: Capacity: 20 m³/min		6	6785	40710
49	Turning Gear Device	N-210-130-535-535 Make: Harbin Turbine Works	69.178Z-1(B)	3		
50	Main oil pump	N-210-130-535-535 Make: Harbin Turbine Works	69.401Z-1(B)	3	872.82	2618.46
51	Main oil pump gear coupling	N-210-130-535-535 Make: Harbin Turbine Works	69.405Z-1(B)	3	11.6	34.8
52	Oil jet	N-210-130-535-535 Make: Harbin Turbine Works	69.407Z-1(B)	3	528.5	1585.5
53						
54	Oil purifier	N-210-130-535-535 Make: Harbin Turbine Works	69.420.37Z(B)	3	2431.9	7295.7

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
55	I.P Cam distributing mechanism	N-210-130-535-535 Make: Harbin Turbine Works	55.339Z(B)	6	925	5550
56	Governor relay valve block	N-210-130-535-535 Make: Harbin Turbine Works	69.351Z(B)	3	50	150
57	Elastic speed governor	N-210-130-535-535 Make: Harbin Turbine Works	55.352Z(B)	3	4.381	13.143
58	Servo motor for H.P control valve	N-210-130-535-535 Make: Harbin Turbine Works	69.357Z-1(B)	12	50	600
59	Interceptor valve servo-motor	N-210-130-535-535 Make: Harbin Turbine Works	69.358Z(B)	6	525	3150
60	Fire preventive pilot valve	N-210-130-535-535 Make: Harbin Turbine Works	55.362Z-1(B)	3	106	318
61	Intermediate relay valve	N-210-130-535-535 Make: Harbin Turbine Works	69.363ZB)	6	33	198
62	Synchronizer	N-210-130-535-535 Make: Harbin Turbine Works	55.350Z-2(B)	3	27	81
63	Differentiator	N-210-130-535-535 Make: Harbin Turbine Works	69.364Z(B)	3	54	162
64	Emergency governor	N-210-130-535-535 Make: Harbin Turbine Works	55.376Z(B)	3	52	156
65	Air receiver for service air compressor	Model: C-2 Volume 2m³		6	730	4380
66	Air receiver for Instrument air compressor	Model: 1KCPG-2800/60 Volume 60m³		3	11719	35157
67	Air dryer Make: Shenyang gas compressor factory	Silica gel absorber	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	6	24116	144696
68	Phosphate solution tank		Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	300	900
69	Automatic control valves on H.P Turbine bypass line	I)On-off valve 2) pressure control valve	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	2040	6120
70	Turbine oil storage tank Make: Field make	Type: Box Capacity: 60m³	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3		

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
71	Oil transfer pump Make: Shenyang gas compressor factory		Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	24	72
72	Gland steam exhaust blower	Type: centrifugal	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	6	445	2670
73	H.P Feed Water Heater #6	Close U tube Nos. of tubes 1049 Ø 16x2.5 Material: 15Mo3	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	26527	79581
74	H.P Feed Water Heater #7	Close U tube Nos. of tubes 1049 Ø 16x2.5 Material: 15Mo3	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	26487	79461
75	H.P Feed Water Heater #8	Close U tube Nos. of tubes 1049 Ø 16x2.5 Material: 15Mo3	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	27789	83367
76	Make up water tank Make: Field make	Type : Vertical cylinder	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	7300	21900
77	Turbine overhead crane Make: Dalim crane works	Type: overhead travelling Hoist : 75/20	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	2	Bridge: 54637 Trolley:24200 Assembly:78837 Total Wt. 157674	315348
78	Turbine oil sump pit pump	Type: 2 PNL Shijinzhuag pump works	Book # 273 conformance document for LOT-1 Volume –III Date sheets PES	3	300	900

WATER TREATMENT SECTION UNITNO.2,3 & 4

1	Cooling Water Pump Make: Shanyang Pump Manufacturing China	Type: 1480 HR-3A Head 25m Capacity: 16000m³/h Speed: 495rpm		9	25810	
2	Emergency Diesel Engine Pump Fire Fighting CHINA Ship Power Station Corporation.	Model:540/92 Output:267.8 Flow: 540		6	3600	
3	Fire Fighting Large Pump	Type: 1xF-A Head: 88.5M Speed: 1480 rpm		3	980	
4	Cooling Tower Gear Box Fan Series:180A	Fan Dia: 8000mm		36	6200	
5	Demi water pump Manufacturer: Shangyang pump China	Type : BJ 5060 Capacity : 50m³/h Head : 60M NPSH : 7M Shaft Power : 12.16 K.W Speed :2950 rpm		6	74	
6	Caustic regeneration pump Manufacturer: Shangyang pump China	Type : B 1100-60A Capacity : 90m² Head : 50 M Speed : 2950 rpm		6	81	
7	Utility pump	Type : TS 80-65-160 Head : 50 M Speed : 2900 rpm		6		
8	Service water pump Manufacturer: Shangyang pump China	Type: BJ 25-40 Head : 40 M Capacity : 25m³/h Speed : 2950 rpm		6		
9	Acid regeneration pump Manufacturer: Shangyang pump China	Type: BJ 100-60 A Head :50 M Capacity : 90m³/h Speed : 2950 rpm		3	81	
10	Cooling Tower Pump House Over head Crane Manufacturer: Dalian Crane Works	Type: E.O.T Crane with Hook Hoise: 20 Ton		3	88200	

ELECTRICAL SECTION UNITNO.2,3 & 4

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
1	Emergency Diesel Engine Generator (EDG)	Type: Air Cooled, 625KVA, 400V, 902A, 50Hz, 3-Phase, Y:Connection, 1500rpm, Excitation System: Static Self Excited, Engine Type: Direct Fired, Engine Output: 880 Hp, Make: Guizhou Desel Factory	(Manual: 273 Lot-I Volume-III V, Page # 245)	Comp: Diesel Engine Gene: Wt: 4100	12300
2	Control Panel of EDG	Type: Indor, H: 2140, W: 800, D: 720, Make: Guizhou Desel Factory	(Manual: 273 Lot-I Volume-III V, Page # 246)	400	1200
3	Generator	MODEL: Turbine Generator Water Hydrogen Cooled , QFSN – 210 - 2 PHASE: 3 ACTIVE POWER: 210 MW VISUAL POWER: 247000 KVA RATED VOLTAGE: 15.75 KV RATED CURRENT: 9056A POWER FACTOR: 0.85 SPEED: 3000 RPM CONNECTION: 2 – Y CRITICAL SPEED 1st ORDER: 1263 RPM CRITICAL SPEED 2nd ORDER: 3494 RPM RATED EXCITATION CURRENT: 1867 A RATED EXCITATION VOLTAGE: 489 V RATED PRESSURE OF H2: 0.3 MPa EFFICIENCY: 98.66 % WATER FLOW FOR STATOR WINDING: 35 m3/h INSULATION GRADE OF STATOR, ROTOR WINDING & STATOR IRON CORE: F	E-46 1/2 A-01J2411	Total Wt: of Generator: 275000 (1) Wt: of Stator of Generator: 186000 (2) Wt: of Rotor of Generator: 44200 (3) Generator H2 Cooler Assembly: 1303	825000
4	AC Exciter for Generator	Type: JL-1165-4 Rated Capacity: 1165 KVA Rated Voltage: 431 V Rated Current: 1562 A RPM: 3000 P.F Cos Ø: 0.91 Frequency: 100 Hz Phase: 3 Ø Rated Excitation Voltage: 51 V Rated Excitation Current: 150 A Armature Connection: Y (Star) Specification: OEA.513.030 Manufacturing Date: 22/7/1988	E-46 1/2 A-01J2411	17875	53625

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
5	Permanent Magnetic Generator (PMG)	Type: TFY-46-500 Rated Capacity: 4.6 KVA Rated Voltage: 161 / 93 V Rated Current: 165 / 266 A Rated Speed: 3000 rpm P.F: 0.875 Frequency: 500 Hz Phase: 3 Ø	E-45/A-02A2122	930	2790
6	Carbon Brush Support Assembly PMG	Type: TFY-46-500 Rated Capacity: 4.6 KVA Rated Voltage: 161 / 93 V Rated Current: 165 / 266 A Rated Speed: 3000 rpm P.F: 0.875 Frequency: 500 Hz Phase: 3 Ø	E-45/A-02A0437	15.97	47.91
7	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 1: Automatic Excitation Regulator Cubic	E-44 / 2EA..389.103 SM	455	1365
8	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 2: Thyristor Convertor Cubicle 3-Phase, Output Voltage: 51 V dc, Out Put Current: 150A dc, Control Source: 220V dc	E-44 / 2EA..389.103 SM	680	2040
9	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 3: Automatic Excitation Operation Cubicle 220V dc,	E-44 / 2EA..389.103 SM	410	1230
10	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 4: 500Hz, Induction Voltage Regulator (Adjustor) Cubicle Input Voltage: 110V, Input Current: 88.4A, Control Source: 220V dc, Output Voltage: 0~70V, Frequency: 500Hz	E-44 / 2EA..389.103 SM	850	2550
11	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 9: Automatic Excitation (Standby Cubic) 3K Type: HB-2E Input Voltage: 380V, Output Voltage: 0 ~ 80V, Output Current: 0 ~ 160A,	E-44 / 2EA..389.103 SM	400	1200
12	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 5: 50Hz Induction Voltage Adjustable Regulator Type: KGT-2E, 3-Phase, 380V, Input current: 29.9A, O.P Voltage: 650V	E-44 / 2EA..389.103 SM	700	2100
13	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 6: Silicon Rectifier Cubicle Type: GLF-2500/1200, Input: 3Ø, 430V, Rectifier Voltage: 1200V, Rectifier Current: 2500A	E-44 / 2EA..389.103 SM	850 X 2 = 1700	5100
14	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 7: Breaker Control Cubicle Type: KQ-80	E-44 / 2EA..389.103 SM	350	1050

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
15	Generator Excitation Control Equipment Panel (Type: KGT-2E)	Panel # 8: De-Excitation Control Cubicle Type: KQ-81-A Max: De-Excitation Current: 2500A, Voltage: 500V	E-44 / 2EA..389.103 SM	318	954
16	Complete Assembled Equipment of Generator Stator Water Cooling System,	Type: SKB-210-2 All Accessories Including Electrical & Mechanical	E- 42/3EA.069.029	6706	20118
17	Complete Assembled Equipment of Generator Seal Oil System	Type: YKB-210-2 All Accessories Including Electrical & Mechanical	E- 43/3EA.069.028- 1	5857	17571
18	Hydrogen Dryer for Generator Type: QFSN – 210 - 2	Hydrogen Dryer	E- 43/3EA.929.042	184	552
19	Generator CTs	LRZB-20, 12000/5, Rated V 20KV, 50HZ, Accuracy 5P, 4.2Ω, Accuracy Limit Factor 15		N.A	N.A
20	Generator Neutral Point T/F Cabinet	Type: Dry Type, Rating: 50KVA, Voltage: 15750/190V, Resistance : 0.66Ω, Current: 300A	E-20/ZDG-00	1650	4950
21	Generator PT & LA Assembly	Generator PT Type: JDZJ-15.75 Moulded Type Single Pole Rating: 15.75KV, Accuracy Class: 0.5, Burde: 200VA Surge Absorber: Type: FCD2-15.75,	E-20/PT.LA-00J	1000	3000
22	Main Transformer Unit # 2,3 &4	Model: SFP7-250000 / 220 TA Type: Oil Immersed, Out door, Oil Forced Air Forced (ODAF) Cooled Rated power: 250000 KVA Rated voltage: 220 ± 4 X 2.5% / 15.75 KV Rated current: 656.1 / 9164.3 A Rated frequency: 50 Hz Type of cooling: ODAF Number of phases: 3 Connection of symbol: YN.d1 Temp: classification: A Temperature rise: 60 K Noise level: 90 Db No load loss: 613.7 KW Load loss: 609.9 KW No load current: 0.28% Impedance voltage: 13.5% WEIGHT: 1. Active parts: 173.66 T 2. Oil: 64.49 T	(Manual: 273 Lot-I Volume-III V, Page # 223)	(1) Weight Cores & Coils = 165000 (2) total Assembled with Oil= 285000	495000

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
23	Auxiliary Transformer Unit # 2,3&4	Rated Power: 25000 KVA Rated Voltage: 15.75 ± 7 X 2% / 6.9 KV Rated Current: 916.4 / 2092 A Rated Frequency: 50 Hz Type of Cooling: ONAN Number of Phases: 3 Connection of Symbol: D, Yn11 Temp: Classification: A Temperature Rise: W = 60 K, O = 50 K Noise Level: 90 dB No Load Loss: 18 KW Load Loss: 116.5 KW No Load Current: 0.29% Impedance Voltage: 12.2% WEIGHT: 1. Active Parts: 27500 KG 2. Oil: 19500 Kg	(Manual: 273 Lot-I Volume-III V, Page # 225)	(1) Weight Cores & Coils = 25600 (2) total Assembled with Oil= 63000	76800
24	Starting Transformer Unit # 3	Type: SFPZ-25000 / 132 TA Rated Power: 25000 KVA Rated Voltage: 132 ± 8 X 1.5% / 6.9 KV Rated Current: 109.3 / 2092 A Rated Frequency: 50 Hz Type of Cooling: ONAN / ONAF Number of Phases: 3 Connection of Symbol: YN-yn0-d1 Temp: Classification: A Temperature Rise: W = 60 K, O = 50 K	(Manual: 273 Lot-I Volum-III V, Page # 228)	(1) Weight Cores & Coils = 29200 (2) total Assembled with Oil= 78000	29200
25	Starting Transformer Unit No.2	Type: SFPZ-25000 / 220 TA Rated Power: 25000 KVA Rated Voltage: 220 ± 8 X 1.5% / 6.9 KV Rated Current: 109.3 / 2092 A Rated Frequency: 50 Hz Type of Cooling: ONAN / ONAF Number of Phases: 3 Connection of Symbol: YN-yn0-d1 Temp: Classification: A Temperature Rise: W = 60 K, O = 50 K Noise Level: 70 dB No Load Loss: 26 KW Load Loss: 116.2 KW No Load Current: 0.28% Impedance Voltage: 11.5%	(Manual: 230 Lot-I Volum-III V, Page # 228)	(1) Weight Cores & Coils = 37500 (2) total Assembled with Oil= 115700	37500

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
26	220KV Undergroung Cable of Main Transformer Unit No.2,3 & 4 & Starting Transformer T-5	Type: ZQYD22-220 (KV)-1 680 mm2 Rated Voltage: 220KV Highest Working Voltage: 252KV Winding Radius: 2410 mm	(Manual: 273 Lot-I Volume-III V, Page # 276)	25860	103440
27	132KV Undergroung Cable of Starting Transformer T-6	Type: ZQYD22-132 (KV)-1270 mm2 Rated Voltage: 132KV Highest Working Voltage: 252KV Winding Radius: 1275 mm	(Manual: 273 Lot-I Volume-III V	12894	12894
28	Main Enclosed Bus Bar Duct Assembly of Generator, T/F	Type: QFM-20-1, Enclosure Dia: 900mm, Conductor Dia: 400 mm Complete Enclosed Bus Bar Of Generator & Transformer Section Assembly : (A1, B1, C1), (AZ, BZ, CZ), (A2, B2, C2) ,(A3, B3, C3), (AM, BM, CM), (A4, B4, C4), (A5, B5, C5), (A6, B6, C6), (AE, BE, CE), (A7, B7, C7), (A8, B8, C8) & (A9, B9, C9),	E-20 / A-131.5 / FM2002.00	Total Weight Bus Bar Encloser= 16037 (including Copper 4901 Kg)	48111
29	0.4KV Distribution Transformer	Type: SG-250, Rated Power: 250 KVA Rated Voltage: 380V/220V Rated Current: 380 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	As per NAME Plate	700 x 2 = 1400	4200
30	0.4KV Lighting Transformer	Type: SG-50, Rated Power: 50 KVA Rated Voltage: 380V/220V Rated Current: 76 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	As per NAME Plate	220 x 10 = 2200	6600
31	0.4KV Lighting Transformer	Type: SG-30, Rated Power: 30 KVA Rated Voltage: 380V/220V Rated Current: 40.5 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	As per NAME Plate	180 x 2 = 3600	10800
32	0.4KV Lighting Transformer	Type: SG-15, Rated Power: 15 KVA Rated Voltage: 380V/220V Rated Current: 22.8 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	As per NAME Plate	110	330

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
33	Dry Type Transformer for Service Station T/F (Common & Unit)	Type: SCL-1600, 1600 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 6% Vector Group: Dy11 Insulation Type: IEC Standard	N.A	N.A	N.A
34	Dry Type Transformer for Cooling Tower Pump House	Type: SCL-1250, 1250 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 6% Vector Group: Dy11 Insulation Type: IEC Standard	N.A	N.A	N.A
35	Dry Type Transformer for Demi Plant	Rated Capacity: 500KVA Rated HV: 6.6KV Rated LV: 0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 4% Vector Group: Dy11 Insulation Type: IEC Standard	N.A	N.A	N.A
36	Dry Type Transformer for Water Pretreatment Plant	Type: SCL-1000, 1000 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 4% Vector Group: Dy11 Insulation Type: IEC Standard	N.A	N.A	N.A
37	Dry Type Transformer for Fuel Oil Station	Type: SCL-315, 315 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 6% Vector Group: Dy11 Insulation Type: IEC Standard	N.A	N.A	N.A
38	6.6 KV VCB Circuit Breaker (For 6.6kV Motor & 6.6kV Dry TypeT/F)	Type: 3AF-1051-4, 7.2KV, 800A, Made in Germany	(Manual: 273 Lot-I Volume-III V, Page # 232)	156 x 25	11700
39	6.6 KV VCB Circuit Breaker (For Breaker # 410 & 411)	Type: 3AF-1156-4, 7.2KV, 2500A, Made in Germany	(Manual: 273 Lot-I Volume-III V, Page # 232)	156 x 2	936
40	Unit Section 6.6kv Switchgear Type: JYN2-10-02 Unit # 4 (Trolley 1 out of 28)	6.6kV Metal Clad Switchgear Specification Copper Bus Bar Size in cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (8X80) X 3, (10X80) X 3 Dimension of Complete Assmebled Switchgear: Height: 2250mm, Width: 750 mm, Depth: 1250mm	(Manual: 273 Lot-I Volume-III V, Page # 232)	900 x 21	56700

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
41	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-01 Unit # 4	6.6kV Switchgear Specification Copper Bus Bar Size in cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (8X80) X 3, (10X80) X 3 6.6 KV Trolley Specification: 3AF-1051-4FA50-8EA2	(Manual: 273 Lot-I Volume-III V, Page # 232)	900	2700
42	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-14	6.6kV Switchgear Specification Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (8X80) X 3 For Unit Aux. Bus PT	(Manual: 273 Lot-I Volume-III V, Page # 232)	900	2700
43	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-21	6.6kV Switchgear Specification Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3, (8x80)x3 For 6.6 KV Unit Aux Bus Incoming PT & LA	(Manual: 273 Lot-I Volume-III V, Page # 232)	900	2700
44	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-40	6.6kV Switchgear Specification Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 6.6 KV VCB Breaker Trolley Specification: Type: 3AF-1156, 7.2KV, 2500A, Made in Germany	(Manual: 273 Lot-I Volume-III V, Page # 232)	900	2700
45	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-38	6.6kV Switchgear Specification Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 For - 6.6kV Unit Aux. Bus Incoming Cable. - 6.6KV Unit Aux. Bus Tie Cable.	(Manual: 273 Lot-I Volume-III V, Page # 232)	900	2700
46	6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-44	6.6kV Switchgear Specification Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 For 6.6 KV Unit Aux. Bus Tie Disconnecting Plug	(Manual: 273 Lot-I Volume-III V, Page # 232)	900	2700
47	Battery Bank	FLAT PLATE LEAD ACID BATTERY SET (1600 AH) Type: TK – 41 Capacity of 1600AH at 10 Hrs., Rate of Discharge 1.8V PC at 25C	N.A	N.A	N.A
48	Main Battery Bank Charger	200KVA, Rectification System: 3-Phase Full Wave, Input 380V, 3-Phase, 50Hz	(Manual: 273 Lot-I Volume-III V, Page # 248)	1200	3600

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
49	Thruster Charger Device (Additional Charger)	Type: KGCA-15A/72V Input Supply; 380V 50 Hz, Output Voltage: 72V			N.A
50	Static Un-Interruptible Power Supply System (UPS)	Type: B-3111 (10KVA) Input Supply 380V, Out Put : 220 VAC	(As per Name Plate)	410 x 2	2460
51	Static Un-Interruptible Power Supply System (UPS)	Type: B-3113 (30KVA) Input Supply 380V, Out Put : 220 VAC	(As per Name Plate)	800 x 2	4800
52	M.E Breaker (withdraw able type) for 0.4KV Switchgear	Type: ME630 Rated Working Voltage: 660V AC Rated Current: 630 A, Capacity Current Value: 84 KA Total Making & Breaking Time: 30 m Sec: Rated Short Time withstand Current: 30 KA	(As per Name Plate)	58 Kg per ME Breaker	174
53		Type: ME800 Rated Working Voltage: 660V AC Rated Current: 630 A, Capacity Current Value: 84 KA Total Making & Breaking Time: 30 mSec: Rated Short Time withstand Current: 30 KA	N.A	N.A	N.A
54		Type: ME3200 Rated Working Voltage: 660V AC Rated Current: 630 A, Capacity Current Value: 84 KA Total Making & Breaking Time: 30 mSec: Rated Short Time withstand Current: 30 KA	N.A	N.A	N.A
55	Rectifier for Electrochemistry (Hydrogen Rectifier Series)	Model # GHF-350A/45V-75V Input of the Rectifier: 3-Phase, 50Hz, 380V Output Volt: range: DC 45V-75V, DC Current: 350A	N.A	N.A	N.A
56	Electrolyzer of H2 Gas Generator	Capcity: 4 Nm3/Hours H2 Gas Pressure: 10Kg/cm2g (Max.) Electrical Power Consumption: 24KVA	(Manual: 273 Lot-I Volume-III V, Page # 218)	1350	4050
57	0.4KV Power Cable	PVC Power Cable, Rating: 600V	(Manual: 273 Lot-I Volume-III V, Page # 222)	N.A	N.A
58	0.4kv Power Cable	PVC Power Cable, Rating: 600V	(Manual: 273 Lot-I Volume-III V, Page # 222)	N.A	N.A
59	Control Cable	PVC Power Cable 600V	(Manual: 273 Lot-I Volume-III V, Page # 222)	N.A	N.A

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
60	Control Cable	PVC Power Cable 600V	(Manual: 273 Lot-I Volume-III V, Page # 222)	N.A	N.A
61	Conduit Pipe for Cable	Material: Steel for 600V RATING Power Cable	(Manual: 273 Lot-I Volume-III V, Page # 223)	20000	20000
62	Conduit Pipe for Cable	Material: Steel for 600V RATING Power Cable	(Manual: 273 Lot-I Volume-III V, Page # 223)	10000	10000
63	Cable Tray	Material: Steel for 600V RATING Power Cable	(Manual: 273 Lot-I Volume-III V, Page # 223)	150000	150000
64	Cable Tray	Material: Steel for 600V RATING Power Cable	(Manual: 273 Lot-I Volume-III V, Page # 223)	50000	50000
65	6.6 KV Motor for Boiler Feed Pump	Type: Y800-1-4, 3200KW, 6.6KV, 329 RPM, 50HZ	(Manual: 273 Lot-I Volume-III V, Page # 60)	15400 x 9	138600
66	6.6 KV Motor for C.P MOTOR	250KW, 6.6KV, 27.1A, 1487RPM, 29422E, 6220	(Manual: 273 Lot-I Volume-III V, Page # 53)	3500 x 9	31500
67	6.6 KV Motor for I.D.F MOTOR	1600KW, 6.6KV, 184A, 745 RPM, 50HZ,	Weight as per name plate	16490 x 6	98940
68	6.6 KV Motor for F.D.F MOTOR	1000KW, 6.6KV, 122.6A, 747 RPM, 50HZ,	Weight as per name plate	15700 x 6	94200
69	6.6 KV Motor for G.R.F MOTOR	200KW, 6.6KV, 21.6A, 1487RPM, 50HZ, NU 222 (R), 6222 (B),	Weight as per name plate	2510 x 6	15060
70	6.6 KV Motor for C.W.P. MOTOR	1600KW, 6.6KV, 175A, 495 RPM, 50HZ, 5EB 262073, 5EB 263188	(Manual: 273 Lot-I Volume-III V, Page # 52)	16000 x 9	144000
71	C.W.P LUBE. PUMP MOTOR	2.2KW, 380V, 4.7A, 2840 RPM, 50HZ, 6205	N.A	N.A	N.A
72	C.T. FAN MOTOR	160KW, 380V, 301A, 1481 RPM, 50HZ, 6320 E (R), NU 320 E	N.A	N.A	N.A
73	3-Phase Motor for B.C.W MOTOR	75KW, 380V, 140A, 1480 RPM, 50HZ	N.A	N.A	N.A
74	Turning Gear MOTOR	30KW, 380V, 67.5A, 750 RPM, 50HZ, N 313, 6317	N.A	N.A	N.A
75	J.O.P MOTOR	18.5KW, 380V, 35.9 A, 1470 RPM, 50HZ, 6311Z1	N.A	N.A	N.A
76	3-Phase Motor for Gland Fan Motor	11KW, 380V, 21.6A, 2930 RPM, 50HZ, 6309Z1	Weight as per name plate	119	714
77	FUME. EX. MOTOR TURBINE SIDE	0.75KW, 380V, 2A, 2825 RPM, 50HZ, 6205			
78	FUME EXTRACT MOTOR GENERATOR	0.75KW, 380V, 3.1/2A, 2825 RPM, 50HZ, 6204	Weight as per name plate	23	138

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
79	H.P BY PASS MOTOR	7.5KW, 380V, 15.6A, 1440RPM, 50HZ	N.A	N.A	N.A
80	3-Phase Motor for STATOR C.W	22KW, 380V, 44.2A, 2940A, 50HZ, 6311	Weight as per name plate	180	1080
81	STARTING OIL PUMP MOTOR	230KW, 0.4Kv, 407A, 2984 RPM, 50Hz, 6316	N.A	N.A	N.A
82	A.C SEAL OIL PUMP MOTOR (AIR SIDE)	5.5KW, 380V, 11A, 2900 RPM, 50HZ, 6308	N.A	N.A	N.A
83	A.C SEAL OIL PUMP MOTOR (H_2 SIDE)	4KW, 380V, 8.67 A, 1440RPM, 50HZ, 6306	N.A	N.A	N.A
84	D.C SEAL OIL PUMP MOTOR	5.5KW, 220V, 31A, 3000 RPM, 50HZ	N.A	N.A	N.A
85	D.C LUBE OIL PUMP MOTOR	13KW, 220V, 26.7A, 3000 RPM, 6308	N.A	N.A	N.A
86	R.O SERVICE MOTOR	37KW, 380V, 70/40.4A, 1480 RPM, 6313, NU313	N.A	N.A	N.A
87	OIL PURIFIER MOTOR	5.5KW, 380V, 11.18A, 1440RPM	N.A	N.A	N.A
88	COND. DRAIN PIT 3-PHASE MOTOR	18.5KW, 380V, 35.9A, 1470 RPM, 50HZ, HH313, 6313	N.A	N.A	N.A
89	L.P DRAIN PUMP MOTOR	55KW, 380V, 105A, 2800 RPM, 50HZ, 6314	N.A	N.A	N.A
90	CIRCULATING COOLER MOTOR	15KW, 380V, 29.4A, 2930A, 50HZ, 6309	N.A	N.A	N.A
91	INJECTION PUMP FOR C.W.P	0.75KW, 380V, 2A, 1390 RPM, 50HZ	N.A	N.A	N.A
91	ALUM AGITATOR	1.5KW, 380V, 3.6A, 1400RPM, 50HZ	N.A	N.A	N.A
93	SERVICE AIR COMPRESSOR	130KW, 380V, 247A, 720 RPM, 50HZ	N.A	N.A	N.A
94	AIR PRE HEATER (A.C) MOTOR	11KW, 380V, 22.6A, 1460 RPM, 50HZ, 6309	N.A	120	720
95	AIR PRE HEATER (DC) MOTOR	10KW, 220V, 53.8A, 4500 RPM, 50HZ, 6309	N.A	N.A	N.A
96	A.P.H UPPER & DOWN LUBE UP MOTOR DOWN	1.1KW, 380V, 2.7A, 1400RPM, 50HZ	N.A	N.A	N.A
97	A.P.H (A.C) LUBE MOTOR	30W, 1400 RPM, 380V, 0.9A, 6200	N.A	N.A	N.A
98	A.P.H (D.C) LUBE MOTOR	50W, 220V, 0.44A, 1500 RPM	N.A	N.A	N.A
99	A.P.H (Soot Blower) MOTOR		N.A	N.A	N.A
100	BOILER DRAIN PUMP MOTOR	22KW, 380V, 42.2A, 2940 RPM, 50HZ, 6311(B)	N.A	182	1092
101	UNIT DRAIN PIT MOTOR	45KW, 380V, 50HZ, 6314	(Manual: 273 Lot-I Volume-III V, Page # 124)	309	1854
102	D.P FOR AIR WARMING DEVICE	22KW, 380V, 42.2A, 2940 RPM, 50HZ, 311 HR 9 (B	N.A	N.A	N.A
103	SCANNER FAN MOTOR	3KW, 380V, 6.4A, 2880 RPM, 50HZ, 6206	N.A	N.A	N.A
104	6.6 KV FIRE PUMP MOTOR	280KW, 6600V, 30A, 1481 RPM, 50HZ, IY, 0.867	N.A	N.A	N.A
105	0.4 KV SMALL FIRE FIGHTING PUMP MOTOR	22KW, 380V, 42.2A, 2940 RPM	N.A	182	1092
106	DEMI TRANSFER MOTOR	15KW, 380V, 29.4A, 2930 RPM, 50HZ, 6309	N.A	N.A	N.A
107	INST. AIR COMP. MOTOR	130KW, 380V, 256A, 590 RPM, 50HZ, NU 320 (R), 6320 (B), 6320 (B)	(Manual: 273 Lot-I Volume-III V, Page # 20)	830	4980
108	BLOWER FAN MOTOR DEMI PLANT	12KW, 380V, 24.6A, 1440RPM, 50HZ	N.A	N.A	N.A
109	L.P HEATER MOTOR	37KW, 380/660V, 70/40.4A, 1480 RPM, 50HZ	N.A	N.A	N.A
110	RE-CIRCULATION VALVE MOTOR	15KW, 380V, 29.4A, 2930 RPM, 50HZ, 6309	N.A	N.A	N.A
111	INTAKE PUMP MOTOR		N.A	N.A	N.A

Sr. No	Equipment Name	Description	Drawing No.	Installed Qty:	Weight (Kg)
112	A.C LUBE OIL PUMP MOTOR	30KW, 380V, 51.33A, 2950 RPM, 50HZ, 6312	N.A	N.A	N.A
113	L.P BY PSS MOTOR	7.5KW, 380V, 15.6A, 1440RPM, 50HZ	N.A	N.A	N.A
114	DEMI PUMP MOTOR	5.5KW, 380V, 11.1A, 2900 RPM, 50HZ, 6309	N.A	N.A	N.A
115	WEST WATER PUMP D-PLANT	2.2KW, 380V, 4.4 A, 1440RPM, 50HZ	N.A	N.A	N.A
116	ALK. UNLOADING PUMP MOTOR	2.2KW, 380V, 4.7A, 2840 RPM, 50HZ	N.A	N.A	N.A
117	ALK. TRANS. OUTLET MOTOR	2.2KW, 380V, 50HZ, 2840 RPM	N.A	N.A	N.A
118	DILT. ALK. TK. AGITATOR MOTOR	1.5KW, 380V, 3.6A, 1400RPM, 50HZ	N.A	N.A	N.A
119	DILT. ALK. DOZ. PUMP MOTOR	1.5KW, 380V, 3.6A, 1400RPM, 50HZ	N.A	N.A	N.A
120	BRINE SOLUTION MOTOR	3KW, 380V, 6.4 A, 2880 RPM, 50HZ	N.A	N.A	N.A
121	GEAR OIL PUMP MOTOR	5.5KW, 380V, 11.8A, 1440RPM, 50HZ	N.A	N.A	N.A
122	SMOKE EXHAUST MOTOR OIL	1.5KW, 380V, 5.4A, 2840 RPM, 50HZ	N.A	N.A	N.A
123	REGENERATION CAUSTIC DEMI PLANT	5.5KW, 11.1A, 2900 RPM, 50 HZ	N.A	N.A	N.A
124	SERVICE WATER PUMP D-PLANT	22KW, 380V, 42.2A, 2940 RPM, 50HZ	N.A	N.A	N.A
125	SERVICE PUMP MOTOR	7.5KW, 380V, 15A, 2900 RPM, 50HZ, 6311	N.A	N.A	N.A
126	WASTE WATER PUMP MOTOR	22.5KW, 380V, 42.2A, 2930 RPM, 50HZ	N.A	182	1092
127	BOOSTER PUMP MOTOR DEMI PLANT	15KW, 380V, 29.4A, 2930 RPM, 50HZ, 6308	N.A	N.A	N.A
128	HCL UNLOADING PUMP MOTOR	5.5KW, 380V, 11.4A, 2900 RPM	(Manual: 273 Lot-I Volume-III V, Page # 108)	65	196
129	DEMI AIR PLANT COMPRESSOR	22KW, 380V, 47.6A, 730 RPM		190	1140
130	P.T ROOM EXHAUST FAN	380V, 2.13A, 1400RPM, 50HZ, 6201	N.A	N.A	N.A
131	UTILITY PUMP	7.5KW, 380V, 15A, 2900 RPM, 50HZ, 6308	N.A	N.A	N.A
132	400 V Control Center	Type: Indoor Self Standing Make: Shenyang L.V Switchgear Factory Rated Voltage: 600 Amp: 1500	(Manual: 273 Lot-I Volume-III V, Page # 235)	11600 x 3	34800

BOILER UNITNO.2,3 & 4 THERMAL POWER STATION, JAMSHORO

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
1	Steam Genertor Type:HF-680/140-Y1 Harbin Mfg;Boiler works				4250×3=12750 Tons	**12750Tons**
2	**Steam Converter**	Type: 2F-230			213569 Tons	213569 Tons
3	Spring Loaded Full LIFtSafety Valve assembly			Qty: 02 Nos	0.237 Tons	0.237 Tons
4	Upper Shell Assembly			Qty : 01 No	6.118 Tons	6.118 Tons
5	Flange Cover			Qty: 02 Nos	2.700TOns	2.700TOns
6	Tube Bundle assembly	Assembly			1.278 Tons	1.278 Tons
7	Bonnet assembly			Qty: 01 No	1.018 Tons	1.018 Tons
8	Stop valve			Qty: 10 Nos	0.78 Tons	0.78 Tons
9	Gate valve		Dg 150, Pg 100 DRG No : 2344.017		0.161 Tons	0.161 Tons
10	High Pressure Deaerator Tank				50.850 Tons	50.850 Tons
11	Spring Loaded Full LIFtSafety Valve assembly			Qty: 02 Nos	0.405 Tons	0.405 Tons
12	High Pressure Deaerator	Type: GWC0700			23.053 Tons	23.053 Tons
13	Stop Valves			Qty: 05 Nos	0.436 Tons	0.436 Tons
14	Stop valve		Pg 40, Dg 150		0.146 Tons	0.146 Tons
15	Drain cooler including its internals , Water Chamber, Shell, Bushing , Tube Bundle	Type: SL-90	Drg No: 3618.064		3.293 Tons	3.293 Tons
16	Stop valve		pg 31.36, Dg 10		0.11 Tons	0.11 Tons
17	Economizer Lower Header HG 680/146-YI		Drg No: 3618.064		3.582 Tons	3.582 Tons
18	Economizer Upper Header (Front) HG 680/146-YI		Drg No: 1351.092		2.223 Tons	2.223 Tons
19	Economizer Upper Header (Rear) HG 680/146-YI		Drg No: 1351.092		2.297 Tons	2.297 Tons
20	Economizer Support Header (Rear) HG 680/146-YI		Drg No: 1351.092		2.220 Tons	2.220 Tons
21	Frame	Assembly (03)			2.350 Tons	2.350 Tons
22	Plate off sizes				0.55 Tons	0.55 Tons
23	Miscellanuos				0.66 Tons	0.66 Tons
24	Steer Fork Setting Device Economizer stting		Drg No: 5354.085		total weight :1.260Ton	total weight :1.260Ton
25	Swing Cleaning device		Drg No: 3402.076		Total weight : 0.450Ton	Total weight : 0.450Ton
26	Reheater bracket of LT RH inl Header , Plates Lug628		Drg No: 1340.105		Total weight : 0.628Ton	Total weight : 0.628Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
27	Blow down Cooler	Type: PL-57	Drg No: 3605.024			603.0
28	CBD Flash Tank with accessories	Type: LP-15				2077.0
29	Air Preheater Type: 26-VI				1140 Tons	1140 Tons
30	Cold end Element & Baskets	E,F,F1, F,E,D ABC	Drg No : 3300.006			23638.8
31	General Arrangement + DR of Air preheater		DRG No : 3300.006			15200.0
32	Support bearing of Air preheater				Total weight : 5.518Ton	Total weight : 5.518Ton
33	Guided Bearing Air preheater				Total weight : 2.241Ton	Total weight : 2.241Ton
34	Rotor device unit				Total weight : 5.293Ton	Total weight : 5.293Ton
35	Heaviest Hot End Basket				Total weight:0.462TOn	Total weight:0.462TOn
36	Cold End Basket				Total weight:0.196Ton	Total weight:0.196Ton
37	Cold End Centre setting				Total weight:1.560Ton	Total weight:1.560Ton
38	Finger TAB, Access door				Total weight:0.417Ton	
39	Economizer Outled Header (Front) HG 680/146-YI	I-Beam, tubes, side casing, bottom casing, horizental flue, rare casing			Total weight:8.809Ton	Total weight:8.809Ton
40	Wind Box Weather Board	Angle Iron, Channel No. 10 Plate Panels	Drg No. 1312.105		Total weight:6.781Ton	Total weight:6.781Ton
41	Air preheater Rotor Assembly	26 VI Diaphram (12 Nos), Rotor Sheet Plate (12 Nos) other accessories	Drg No. 3301.002		Total weight:14.736Ton	Total weight:14.736Ton
42	Periodic Blow Down Flash Tank	Flange Fitting Pg6, Dg500, Reinforced plate No. 1 (16 meter) and accessories	Drg No. 3252.043		Total weight:1.371Ton	Total weight:1.371Ton
43	High Pressure Dearator	GCW-700			Total weight : 19.672Ton	Total weight : 19.672Ton
44	52 Top Parts				Total weight : 0.480	Total weight : 0.480
45	Spring Spray Nozzle 1,2				Total weight : 0.128	Total weight : 0.128
46	Boiler Structure	HG-680/140-YI	Drg No. 1310.095		Box No. 118	Box No. 118
47	Beams	WL-1-27, CL 1-30, NL-1			Total weight :331.352Ton	Total weight :331.352Ton
48	Columns	Z-1-1, 1-2			Total weight :585.927TOn	Total weight :585.927TOn

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
49	Horizontal Brace				Total weight :120.913Ton	Total weight :120.913Ton
50	Brace				Total weight : 253.199Ton	Total weight : 253.199Ton
51	AH Support				Total weight : 119.378Ton	Total weight : 119.378Ton
52	Boiler Guide				Total weight : 0.570Ton	Total weight : 0.570Ton
53	Column Collectors				Total weight : 0.188Ton	Total weight : 0.188Ton
54	Beams				Total weight : 147.948Ton	Total weight : 147.948Ton
55	Hanger for duct	02 Assembly			Total weight : 7.666Ton	Total weight : 7.666Ton
56	Support Level		Drg No. 22.1313.034		Total weight : 260.863TOn	Total weight : 260.863TOn
57	Roof Links	HG-680/140-YI	Drg No. 1326.041		Box No.07	
58	Tubing	Dia 133x13 Qty 94 Nos			Total weight : 51.839Ton	Total weight : 51.839Ton
59	Economizer Element Assembly		Drg No. 1350.033		Box No. 11	
60	Tubing	Dia 42x5, L=2418, 2182, 2048 Qty 330 Nos			Total weight : 4.317Ton	Total weight : 4.317Ton
61	Economizer Hanger Tube				Total weight : 6.090Tong	Total weight : 6.090Tong
62	Hanger Tube	Dia 42x5, L=1937,1954 etc Qty 192 Nos			Total weight : 6.050TOn	Total weight : 6.050TOn
63	Economizer Setting				Total weight : 1.147Ton	Total weight : 1.147Ton
64	**Plate**	t=10mm, 150x400 etc Qty 751			Total weight : 0970Ton	Total weight : 0970Ton
65	Steel forks Setting Device			Qty: 208 Nos	Total weight : 0.112Ton	Total weight : 0.112Ton
66	Bar, Header Support, End Cover	Bar = 40m, HS=03 Nos EC=05 Nos			Total weight : 0.174Ton	Total weight : 0.174Ton
67	Anti Vibration Baffle		Drg No. 1355.031		Box No. 12	Box No. 12
68	Baffle Plate		DRG: NO. 1355.031	Qty: 189 Nos	Total weight : 8.936Ton	Total weight : 8.936Ton
69	Support		Drg No. 1355.031	Qty 90 Nos	Total weight : 063TOn	Total weight : 063Ton
70	Shutoff Damper Assembly		Drg No. 136.046		Box No. 13	Box No. 13

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
71	Shutoff Damper, Connection Plate + Accessories			Qty No 2+4	Total weight : 4.877Ton	Total weight : 4.877Ton
72	Shutoff Damper (Frame, Blade, Side Plate, Bearing , Channel, Shaft etc		DRG: NO. 5362.1607	Qty: 01 No	Total weight : 1.733Ton	Total weight : 1.733Ton
73	Air Preheater Inlet Gas Duct (Gas Duct I,II & III)		Drg No. 1362.070	Qty. Nos 06	Total weight : 32.514Ton	Total weight : 32.514Ton
74	Expansion Joint		Drg No. 1362.070	Qty. Nos 06	Total weight : 5.765Ton	Total weight : 5.765Ton
75	Accessories				Total weight : 3.305Ton	Total weight : 3.305Ton
76	Beam and Lug				Total weight :0.238Ton	Total weight :0.238Ton
77	Duct Expansion and Seal (Expansion Plate, Plate and Accessories		Drg No. 1362.06	Qty. 14+39	Total weight : 5.136Ton	Total weight : 5.136Ton
78	Gate valve	DN 150 , PN 100	Drg No. 2344.017		Total weight : 0.282TOn	Total weight : 0.282TOn
79	Feed Water Regulating Valve	DN 150 , PN 100	Drg No. 2344.017			
80	Beam WL-I	WL-1	DRG-No.5311.2068		97.241Ton	97.241Ton
81	Beam ZIL-1		DRG-No.5311.2068		3.570Ton	3.570Ton
82	Beam W-2-9-10		DRG-No.5311.2068		3.570Ton	3.570Ton
83	Beam WL-11		DRG-No.5311.2068		10.101Ton	10.101Ton
84	Beam WL 12-18		DRG-No.5311.2068		4.362TOn	4.362TOn
85	Coloumn Z-1-1		DRG-No.5311.2538		326.566Ton	326.566Ton
86	Coloumn Z-1-2		DRG-No.5311.2538		326.566TOn	326.566TOn
87	Column (Off No)		DRG 5311-2677		22.226Ton	22.226Ton
88	Brace B/W column Z-5c &Coloumn Z-5 cr (A.H Support)		DRG-5311-2684		54.358Ton	54.358Ton
89	Hanger Type L-4 (A.H support)		DRG 5311-2716		0.160Ton	0.160Ton
90	Colomn Foot No 9*10		DRG 5311-2717		0.548Ton	0.548Ton
91	KB No.06 (A.H support)		DRG 5311-2719		0.35Ton	0.35Ton
92	Hnger For Duct		DRG 5311-2702		383.319Ton	383.319Ton
93	Brace B/W Z-1 and Z-1		DRG 5311-2720		106.215TOn	106.215TOn
94	Horizental Brace Ch-17-9		DRG 5311-2736		3.324Ton	3.324Ton
95	Horizental Brace Ch-26-3		DRG 5311-2736		2.367Ton	2.367Ton
96	Horizental Brace Ch-32-5		DRG 5311-2736		2.367Ton	2.367Ton
97	Horizental Brace Ch-43-1		DRG 5311-2736		2.367Ton	2.367Ton
98	Horizental Brace Ch-38-9		DRG 5311-2736		3.229Ton	3.229Ton
99	Horizental Brace Qh-17-9		DRG 5311-2736		3.134Ton	3.134Ton
100	Horizental Brace Qh-26-3		DRG 5311-2736		2.366Ton	2.366Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
101	Horizental Brace Qh-32-5		DRG 5311-2736		6.459Ton	6.459Ton
102	Horizental Brace Qh-38-9		DRG 5311-2736		7.519Ton	7.519Ton
103	Horizental Brace Qh-43-1		DRG 5311-2736		7.600Ton	7.600Ton
104	Horizental Brace Qh-46-9		DRG 5311-2736		3.432Ton	3.432Ton
105	Horizental BraceHH-46-9		DRG 5311-2736		2.030Ton	2.030Ton
106	Horizental BraceHH-43-9		DRG 5311-2736		2.030Ton	2.030Ton
107	Horizental BraceHH-26-3		DRG 5311-2736		2.030Ton	2.030Ton
108	Horizental BraceHH-32-5		DRG 5311-2736		4.197Ton	4.197Ton
109	Horizental BraceHH-38-9		DRG 5311-2736		4.197Ton	4.197Ton
110	Brace NH-6-5		DRG 5311-2736		2.270Ton	2.270Ton
111	Brace NH-10		DRG 5311-2736		1.875Ton	1.875Ton
112	Brace NH-17-9		DRG 5311-2736		4.084Ton	4.084Ton
113	Brace NH-27-3		DRG 5311-2736		0.904Ton	0.904Ton
114	Brace NH-35-7		DRG 5311-2736		0.904Ton	0.904Ton
115	Brace NH-29-91		DRG 5311-2736		0.904Ton	0.904Ton
116	Brace NH-23-6		DRG 5311-2736		1.736Ton	1.736Ton
117	Brace NH-24-9		DRG 5311-2736		1.736Ton	1.736Ton
118	Column Nz1-1		DRG 5311-2753		1.238Ton	1.238Ton
119	Column Nz1-2		DRG 5311-2753		6.936Ton	6.936Ton
120	Column Nz1-3		DRG 5311-2753		6.936Ton	6.936Ton
121	Column Nz1-1		DRG 5311-2753		6.936Ton	6.936Ton
122	Column Nz1-2		DRG 5311-2753		6.936Ton	6.936Ton
123	Column Nz1-3		DRG 5311-2753		6.936Ton	6.936Ton
124	**Boiler Guide**		DRG 5311-2760		0.489Ton	0.489Ton
125	Horizental Brace QH-17-9-1		DRG 5311-2763		17.172Ton	17.172Ton
126	Horizental Brace QH-17-9-2		DRG 5311-2763		17.172Ton	17.172Ton
127	Main Grinder including members		DRG 1313.036		260.863Ton	260.863Ton
128	Int-Member DL-I		DRG 5313-113		154.871Ton	154.871Ton
129	Int-Member DL-2		DRG 5313-113		154.871Ton	154.871Ton
130	Int-Member DL-3		DRG 5313-113		154.871Ton	154.871Ton
131	Int-Member DL-4		DRG 5313-113		154.871Ton	154.871Ton
132	Int-Member DL-5		DRG 5313-113		154.871Ton	154.871Ton
133	Int-Member DL-6		DRG 5313-113		154.871Ton	154.871Ton
134	Int-Member DL-7		DRG 5313-113		154.871Ton	154.871Ton
135	Int-Member DL-8		DRG 5313-113		154.871Ton	154.871Ton
136	Int-Member DL-9		DRG 5313-113		154.871Ton	154.871Ton
137	Int-Member DL-10		DRG 5313-113		154.871Ton	154.871Ton
138	Int-Member DL-11 To 50		DRG 5313-148		37.766Ton	37.766Ton
139	Int-Member DL-51 (DL-55)		DRG 5313-148		0.387Ton	0.387Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
140	Int-Member DL-52 (DL-54)		DRG 5313-148		0.387Ton	0.387Ton
141	Int-Member DL-53 (Dl-53)		DRG 5313-148		0.387Ton	0.387Ton
142	Int-Member DL-54		DRG 5313-148		0.387Ton	0.387Ton
143	Hanger No-1		DRG 5313-1190		0.441Ton	0.441Ton
144	Hanger No-2		DRG 5313-1191		0.441Ton	0.441Ton
145	Connecting Plate 1*2		DRG 5313-1192,1193		0.83Ton	0.83Ton
146	Horizental Brace		DRG 5313-1194		3.283Ton	3.283Ton
147	Roof Links tubing Dia 133*13		DRG 1326-041		52.788Ton	52.788Ton
148	Roof Links tubing Dia 159*14		DRG 1326-041		52.788Ton	52.788Ton
149	Roof Links tubing Dia 108*12		DRG 1326-041		52.788Ton	52.788Ton
150	Roof Links tubing Dia 89*8		DRG 1326-041		52.788Ton	52.788Ton
151	Roof Tubing dia 51*4 L-560		DRG 5300-003		0.260Ton	0.260Ton
152	Roof Tubing dia 51*4L-881		DRG 5300-003		0.408Ton	0.408Ton
153	Roof Tubing dia 51*4 L-1084		DRG 5300-003		0.503TOn	0.503TOn
154	Roof Tubing dia 51*4 L-640		DRG 5300-003		0.297Ton	0.297Ton
155	Roof Tubing dia42*5 L-540		DRG 5300-003		0.246Ton	0.246Ton
156	Roof Tubing dia 42*5 L-819		DRG 5300-003		0.373Ton	0.373Ton
157	Roof Tubing dia 42*5 L-998		DRG 5300-003		0.455Ton	0.455Ton
158	Bi Furcate Trans Tube Dia 51*6 L-250m		DRG 5300-010		0.5Ton	0.5Ton
159	Bi Furcate Trans Tube Dia 42*5 L-740m		DRG 5300-010		0.5Ton	0.5Ton
160	Bi Furcate		DRG 5300-013		0.4Ton	0.4Ton
161	Oil Gun		DRG 1383-023		0.12Ton	0.12Ton
162	Scanner Type -11		DRG 1393-023		0.16Ton	0.16Ton
163	Roof Hanger		DRG 1343-095		4.418Ton	4.418Ton
164	Upper Frontt Hanger Tube		DRG 5343-126		0.864Ton	0.864Ton
165	Roof Tubing Support (Channel.Rib.Plate.Lug.Pin Etc		DRG5343-1262		0.512Ton	0.512Ton
166	Roof Hanger Connecting Support		DRG5343-1263		0.54Ton	0.54Ton
167	Roof Tubing Support (Channel.Rib.Plate.Lug.Pin Etc		DRG5343-1265		0.504Ton	0.504Ton
168	Roof Tubing Sypport		DRG5343-1266		0.512Ton	0.512Ton
169	Connecting Support		DRG5343-1267		0.81Ton	0.81Ton
170	Roof Tubing Support		DRG5343-1268		0.519Ton	0.519Ton
171	Economizer Hanger Tubing Support		DRG5343-270		1.135Ton	1.135Ton
172	Roof Tubing Support		DRG5343-1272		0.512Ton	0.512Ton
173	Channels, Rib,Plate,Conn link etc		DRG5343-1273		0.117Ton	0.117Ton
174	Connection Support		DRG5343-1274		0.117Ton	0.117Ton
175	Economizer Hanger Tubing Support					
176	BP-RW.Support (Beam,lug plate etc		DRG5343-1275		0.964Ton	0.964Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
177	Feed water links Rw,Rel.TBS,Support		DRG 5343-1276		0.56Ton	0.56Ton
178	Feed water Link Support		DRG 5343-1277		0.15Ton	0.15Ton
179	Feed water and RW,REL, TBS		DRG 5343-1278		0.137Ton	0.137Ton
180	Feed water Link Support		DRG 5343-1279		0.34Ton	0.34Ton
181	Feed water SRW,REL,TBS Support		DRG 5343-1280		0.91Ton	0.91Ton
182	Feed water SRW,REL,TBS Support		DRG 5343-1281-88		0.473Ton	0.473Ton
183	Bypass Pipe support (Hangers)		DRG 5343-1289		0.16Ton	0.16Ton
184	Beam (Roof Hanger)		DRG 5343-1291		0.19Ton	0.19Ton
185	Beam (Roof Hanger)		DRG 5343-1299		0.141TOn	0.141TOn
186	Beam (Roof Hanger)		DRG 5343-1300		0.166Ton	0.166Ton
187	Big Lug		DRG5343-1301		0.67Ton	0.67Ton
188	Beam		DRG 5343-1303		0.687Ton	0.687Ton
189	Supporting Plate		DRG 5343-1312 to 1322		0.123Ton	0.123Ton
190	General Arrangement of plateform beam for OP level (L-1 to L-39)		DRG 1302-017		60.399TOn	60.399TOn
191	General arrangement of econonmizer tubing & element assembly		DRG 1350-033		142.114Ton	142.114Ton
192	Econonmizer serpaintain Tubing		DRG 1352-113		3.855Ton	3.855Ton
193	Econonmizer serpaintain Tubing Dia 42*5 L-2418 mm		DRG 5352-425		0.11Ton	0.11Ton
194	Econonmizer serpaintain Tubing dia 42*5 L-2182 mm		DRG 5352-426		0.10Ton	0.10Ton
195	General arrangement front water wall assembly (FRT & RRWW assembly)		DRG 1321-591		72.139Ton	72.139Ton
196	Sealing Plate S=4		DRG 5321.643		0.3	0.3
197	Sealing Plate S=6		DRG 5321.644		0.1	0.1
198	Scall Opal Plate S=10		DRG 5321.648		0.9	0.9
199	Scall Opal Plate S=10		DRG 5321.649		0.9	0.9
200	Scall Opal Plate S=10		DRG 5321.650		0.9	0.9
201	Scall Opal Plate S=10		DRG 5321.651		0.9	0.9
202	NippleØ 60×6.5 L=1182		DRG 5321.652		0.10Ton	0.10Ton
203	NippleØ 60×6.5 L=1180		DRG 5321.653		0.7Ton	0.7Ton
204	NippleØ 60×6.5 L=937		DRG 5321.654		0.8Ton	0.8Ton
205	Arcplate		DRG 5321.655		0.5	0.5
206	Lug		DRG 5321.656		0.26TOn	0.26TOn
207	Lug		DRG 5321.657		0.5Ton	0.5Ton
208	General arrangement of Duct Exp & Serl		DRG 1362.065		5.168Ton	5.168Ton
209	T.T wirl box		DRG 1389.029		1.389Ton	1.389Ton
210	Oil Gun Flux.HBC arrangemnt		DRG 1389.029		0.39Ton	0.39Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
211	Damper Box Arranagement NO: A.B.C & D		DRG 1389.019		7.38Ton	7.38Ton
212	Cooling Air HBC Assembly		DRG 1389.020		0.132Ton	0.132Ton
213	Steam Generator Type HG-680/140-Y1 Harbin		Manual 273 Vol:II		4.250 Ton	4.250 Ton
214	Gas air Pre Heater Ljungstrom Regenerative				0.380 Ton	0.380 Ton
215	Steam Coil Air Preheater NFTIII Smooth Fin Tubes				1.820Ton	1.820Ton
216	Gas recirculation Fan or Gas injection fan				7.58 Ton	7.58 Ton
217	HSD oil Service Tank cone roof				8.000 Approx:(Ton)	8.000 Approx:(Ton)
218	Steam Generator supporting Steel Structure Harbin Boiler Works				1.750Ton	1.750Ton
219	Steam reducing system Verical				0.25Ton	0.25Ton
220	Upper water wall header No:1		DRG 1324-309		0.454Ton	0.454Ton
221	Upper water wall header No:2		DRG 1324-310		0.419Ton	0.419Ton
222	Upper water wall header No:3		DRG 1324-311		0.437Ton	0.437Ton
223	Upper water wall header No:4		DRG 1324-312		0.437Ton	0.437Ton
224	Upper Header of Side water wall No:1		DRG 1324-313		0.440Ton	0.440Ton
225	Upper Header of Side water wall No:2		DRG 1324-314		0.467Ton	0.467Ton
226	Upper Header of Rear water wall No:2		DRG 1324-316		0.424Ton	0.424Ton
227	Upper Header of Rear water wall No:3		DRG 1324-317		0.437Ton	0.437Ton
228	Lower Header of Front Rear water wall No:1		DRG 1324-318		0.425Ton	0.425Ton
229	Lower Header of Front Rear water wall No:2		DRG 1324-319		0.453Ton	0.453Ton
230	Lower Header of Front Rear water wall No:3		DRG 1324-320		0.474Ton	0.474Ton
231	Lower Header of Side water wall No:1		DRG 1324-321		0.491Ton	0.491Ton
232	Lower Header of Side water wall No:2		DRG 1324-322		0.453Ton	0.453Ton
233	Lower Header of Side water wall No:3		DRG 1324-323		0.463Ton	0.463Ton
234	General Arrangement of Front Seals		DRG 1343-102		13.735Ton	13.735Ton
235	Furnace wall Blower		DRG 72121-0-0		0.188Ton	0.188Ton
236	Long Retractable Soot Blowr (5m)		DRG 72308-0-0		0.749Ton	0.749Ton
237	Long Retractable V/V Opt Assembly		DRG D83-02-0A		0.14Ton	0.14Ton
238	Long Retractable Traveling carriage assembly		DRG D-84-01-0A		0.30Ton	0.30Ton
239	Long Retractable Gear Box Assembly		DRG D-84-01-0A		0.687Ton	0.687Ton
240	Long Retractable Head V/V assembly		DRG D--80-05-0		0.26Ton	0.26Ton
241	Long Retractable Lance Tube		DRG 72308-9-OA		0.52Ton	0.52Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
242	Long Retractable Accessory for travelling carriage assembly		DRG D-83-16-0		0.6Ton	0.6Ton
243	Long Retractable Head V/V assembly		DRG D-80-04-0wx		0.24TOn	0.24TOn
244	Long Retractable Gear Box Assembly		DRG 72121-3-0		0.610Ton	0.610Ton
245	Long Retractable Scrival Tube		DRG 72121-3-11-0		0.8Ton	0.8Ton
246	Long Retractable Connectiong flange		DRG 72121-9-0		0.23Ton	0.23Ton
247	Scanner H Type		DRG 1393-023		0.16Ton	0.16Ton
248	Bi Furcate		DRG 5300-010		0.5Ton	0.5Ton
249	Bi Furcate		DRG 5300-013		0.4Ton	0.4Ton
250	Tubing Dia 51×4 L-560 mm		DRG 5300-003		0.260Ton	0.260Ton
251	Tubing Dia 51×4 L-881 mm		DRG 5300-004		0.408Ton	0.408Ton
252	Tubing Dia 51×4 L-1084 mm		DRG 5300-005		0.5Ton	0.5Ton
253	Tubing Dia 51×4 L-640 mm		DRG 5300-006		0.297Ton	0.297Ton
254	Tubing Dia 42×5 L-540 mm		DRG 5300-007		0.246Ton	0.246Ton
255	Tubing Dia 42×5 L-819 mm		DRG 5300-008		0.373Ton	0.373Ton
256	Tubing Dia 42×5 L-998 mm		DRG 5300-009		0.455Ton	0.455Ton
257	Oil Gun		DRG 1383-023		0.12Ton	0.12Ton
258	Burner TIroat water wall -B tubing off sizes		DRG 1329-008		2.993Ton	2.993Ton
259	Burner TIroat water wall -A tubing off sizes		DRG 1329-007		2.990Ton	2.990Ton
260	Steel Work of Burner TIroat water wall		DRG 5329-125		0.163Ton	0.163Ton
261	Economizer lower header		DRG 1351.091		3.557Ton	3.557Ton
262	Economizer upper header front		DRG 1351-092		2.662Ton	2.662Ton
263	Economizer upper header Rear		DRG 1351-093		2.262Ton	2.262Ton
264	Economizer support header		DRG 1351-094		2.258Ton	2.258Ton
265	General Arrangement Roof back pass wall seals		DRG 1343-092		4.697Ton	4.697Ton
266	General Arrangement of Reheater (High Temp Reheater)		DRG 1340-104		115.378Ton	115.378Ton
267	Low temperature reheater		DRG 1340-104		237.280Ton	237.280Ton
268	Re heater header inlet/Outlet		DRG 1340-104		10.231Ton	10.231Ton
269	De-Super Heater Device		DRG 1340-104		1.736Ton	1.736Ton
270	Mis-Accessories		DRG 1340-104		2.036Ton	2.036Ton
271	Bracket of LT Reheater including header		DRG 5343-1406		0.59Ton	0.59Ton
272	Steel forks sitting		DRG 5343-1415		0.10Ton	0.10Ton
273	Chain element assembly of drain hanger		DRG 5333-088		0.278Ton	0.278Ton
274	Chain element assembly of drain hanger		DRG 5333-089		0.271Ton	0.271Ton
275	Chain element assembly of drain hanger		DRG 5333-090		0.266Ton	0.266Ton
276	Link pin		DRG 5333-091		0.16Ton	0.16Ton
277	Link pin		DRG 5333-092		0.14Ton	0.14Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
278	Tie Plate		DRG 5333-094		0.24Ton	0.24Ton
279	Boom		DRG 5333-095		0.14Ton	0.14Ton
280	Drum Hanger		DRG 1333-024		1.881Ton	1.881Ton
281	Arrangement cold End Baskets (Air per-Heater)		DRG 3307-002		6.118Ton	6.118Ton
282	Hot & Hot intermate element & Baskets		DRG 3306-002		9.081Ton	9.081Ton
283	General arrangement of air pre heater outlet hopper		DRG 1362-072		7.664Ton	7.664Ton
284	Expansion Joint of air pre heater outlet hopper		DRG 5262-1609		0.542Ton	0.542Ton
285	Small hopper of air pre heater outlet hopper		DRG 5362-1610		0.506Ton	0.506Ton
286	Front pannel of air pre heater outlet hopper		DRG 5362-1611		0.994Ton	0.994Ton
287	Real Pannel of air pre heater outlet hopper		DRG 5362-1612		0.106Ton	0.106Ton
288	Upper Truss of air pre heater outlet hopper		DRG 5362-1617		0.692Ton	0.692Ton
289	Rotor Real seal assembly of air pre heater		DRG 3303-002		1.395Ton	1.395Ton
290	T of air pre heater assembly		DRG 7303-055		0.25Ton	0.25Ton
291	T-Bar & Tair pre heater assembly length 2116 mm		DRG 7303-056		0.25Ton	0.25Ton
292	Radial Seal straight Edge Air pre heater assembly		DRG 7303-059		0.22Ton	0.22Ton
293	Pin Rack of Air pre heater assembly		DRG 3302-002		0.890Ton	0.890Ton
294	Pin Rack segment of Air pre heater assembly		DRG 7302-009		0.24Ton	0.24Ton
295	Pin Rack segment of Air pre heater assembly		DRG 7303-012		0.13Ton	0.13Ton
296	Rotor Assembly of Air pre heater		DRG 3301-002		21.540Ton	21.540Ton
297	Cover assembly of Air pre heater		DRG 7301-019		0.45Ton	0.45Ton
298	Rotor Post Assembly of Air Pre heater		DRG 7301-033		3.744Ton	3.744Ton
299	Element assembly of 2nd super heater		DRG 1342-111-114		2.988Ton	2.988Ton
300	General Arrangemnet of 2nd super heater		DRG 1342-110		59.716TOn	59.716TOn
301	Super Heater I outlet Header		DRG 1341-226		4.932Ton	4.932Ton
302	Super Heaterfinish outlet Header		DRG 1341-228		3.040Ton	3.040Ton
303	Super Heater I outlet Header		DRG 1344-227		5.191Ton	5.191Ton
304	Super Heater I outlet Header plan out let Heater		DRG 1344-225		8.244Ton	8.244Ton
305	Super Heater I outlet Header Roof IBS Including header		DRG 1344-219		2.127Ton	2.127Ton
306	Super Heater I outlet Header BPSW lower header (R)		DRG 1344-222		1.621Ton	1.621Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
307	Super Heater I outlet Header BPSW lower header (L)		DRG 1344-221		1.621Ton	1.621Ton
308	Super Heater I outlet Header BP RW lower header		DRG 1344-220		2.195Ton	2.195Ton
309	Super Heater I outlet Header BP SW Upper Header		DRG 1344-223		1.536Ton	1.536Ton
310	Super Heater I outlet Header Hanger IBS Header		DRG 1344-224		2.251Ton	2.251Ton
311	Rear Water Wall (Front and RRWW Asembly #1)		DRG 1322-238		1.885Ton	1.885Ton
312	Rear Water Wall (Front and RRWW Asembly #2)		DRG 1322-239		2.065Ton	2.065Ton
313	Rear Water Wall (Front and RRWW Asembly #3)		DRG 1322-240		2.166Ton	2.166Ton
314	Rear Water Wall (Front and RRWW Asembly #4)		DRG 1322-241		1.309Ton	1.309Ton
315	Rear Water Wall (Front and RRWW Asembly #5)		DRG 1322-242		2.311Ton	2.311Ton
316	Rear Water Wall (Front and RRWW Asembly #6)		DRG 1322-243		2.426Ton	2.426Ton
317	Rear Water Wall (Front and RRWW Asembly #7)		DRG 1322-244		2.394Ton	2.394Ton
318	Rear Water Wall (Front and RRWW Asembly #8)		DRG 1322-245		2.513Ton	2.513Ton
319	Rear Water Wall (Front and RRWW Asembly #9)		DRG 1322-246		2.414Ton	2.414Ton
320	Rear Water Wall (Front and RRWW Asembly #10)		DRG 1322-247		2.534Ton	2.534Ton
321	General arrangement of RRWW		DRG 1322-248		59.438Ton	59.438Ton
322	DownComers (Distribution pipes, Water Supply tubes)	Qty:32 (DC) Dist:Pipe Qty 06, Water Supply Tube Qty:48	DRG 1326-038		137.99 Ton	137.99 Ton
323	Stop Valve Dg50i Pg 200-250		DRG 2062-0029		0.48 Ton	0.489 Ton
324	Motor Operated Stop Valve Dg 50i Pg-250		DRG 2062-036		0.43 Ton	0.43 Ton
325	Control Valve (Type-C)Dg 50i Pg-250		DRG 2462-024		0.95 Ton	0.95 Ton
326	Motor Operated Stop Valve Dg 32i Pg-250		DRG 2062-034		0.36 Ton	0.36 Ton
327	Control Valve Dg 32i Pg-250		DRG 2469-004		0.83 Ton	0.83 Ton
328	Motor Operated Blow Off Vlave Dg 32i Pg-250		DRG 2062-035		0.36 Ton	0.36 Ton
329	Blow Off Valve Dg 32i Pg-320		DRG 2062-015		0.12 Ton	0.12 Ton
330	Check Valve Dg 32i Pg-320		DRG 2161-003		0.39 Ton	0.39 Ton
331	Motor operated stop valve Dg 100i Pg-100		DRG 2094-003		0.55 Ton	0.55 Ton

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
332	Stop Valve Dg 100i Pg-250		DRG 2064-005		0.179 Ton	0.179 Ton
333	Check Valve Dg 100i Pg-250		DRG 2164-001		0.148 Ton	0.148 Ton
334	Control Valve Dg 100i Pg-250		DRG 2164-008		1.633 Ton	1.633 Ton
335	Motor Operated Stop Valve Dg 100i Pg-250		DRG 2064-010		0.172 Ton	0.172 Ton
336	Control Valve Dg 300i Pg-250		DRG 2466-006		0.1625 Ton	0.1625 Ton
337	Oil Header Type-JY-105		DRG 3614.19		5.117 Ton	5.117 Ton
338	Contionous blowdown flash tank (Lp-1.5)		DRG 3252-044		1.397 Ton	1.397 Ton
339	Periodic Blow Down Flash Tank (DP-35)		DRG 3252-044		8.829 Ton	8.829 Ton

Thermal Power Plant Data - Power Sector Indigenization Plan						
Sr. No	**Equipment Name**	**Area/Location**	**Installed Qty:**	**Description**	**Make (Local/ Import)**	**Remarks**
C.	**Electrical Equipment Unit # 2, 3, 4**					
1	**Generator Unit**	Turbine Hall (10-Mtr)	01 No.	MODEL: Turbine Generator Water Hydrogen Cooled , QFSN – 210 - 2 PHASE: 3 ACTIVE POWER: 210 MW VISUAL POWER: 247000 KVA RATED VOLTAGE: 15.75 KV RATED CURRENT: 9056A POWER FACTOR: 0.85 SPEED: 3000 RPM CONNECTION: 2 – Y CRITICAL SPEED 1st ORDER: 1263 RPM CRITICAL SPEED 2nd ORDER: 3494 RPM RATED EXCITATION CURRENT: 1867 A RATED EXCITATION VOLTAGE: 489 V RATED PRESSURE OF H2: 0.3 MPa EFFICIENCY: 98.66 % WATER FLOW FOR STATOR WINDING: 35 m3/h INSULATION GRADE OF STATOR, ROTOR WINDING & STATOR IRON CORE: F Total Wt: of Generator: 275 Ton Wt: of Stator of Generator: 186 Ton Wt: of Rotor of Generator: 44.2 Ton	HARBIN ELECTRIC MACHINERY WORKS CHINA	
2	**AC Exciter for Generator**	Turbine Hall (10-Mtr)	01 No.	Type: JL-1165-4 Rated Capacity: 1165 KVA Rated Voltage: 431 V Rated Current: 1562 A RPM: 3000 P.F Cos Ø: 0.91 Frequency: 100 Hz Phase: 3 Ø Rated Excitation Voltage: 51 V Rated Excitation Current: 150 A Armature Connection: Y (Star) Specification: OEA.513.030 Manufacturing Date: 22/7/1988		
3	**Permanent Magnetic Generator (PMG)**	Turbine Hall (10-Mtr)	01 No.	Type: TFY-46-500 Rated Capacity: 4.6 KVA Rated Voltage: 161 / 93 V Rated Current: 165 / 266 A Rated Speed: 3000 rpm P.F: 0.875 Frequency: 500 Hz Phase: 3 Ø		
	Generator Excitation Equipment Panel (09 Panels) (Type: KGT-2E)	DC Room	01 No.	Panel # 1: Automatic Excitation Regulator Cubic	XIAN Electiric Manufacturing Corporation Power Rectifier Work China	
		DC Room	01 No.	Panel # 2: Thyristor Covertor Cubicle 3-Phase, Output Voltage: 51 V dc, Out Put Current: 150A dc, Control Source: 220V dc		
		DC Room	01 No.	Panel # 3: Automatic Excitation Operation Cubicle 220V dc,		
		DC Room	01 No.	Panel # 4: 500Hz, Induction Voltage Regulator (Adjusctor) Cubicle Input Voltage: 110V, Input Current: 88.4A, Control Source: 220V dc, Output Voltage: 0~70V, Frequency: 500Hz		
		DC Room	01 No.	Panel # 9: Automatic Excitation (Standby Cubic) 3K Type: HB-2E Input Voltage: 380V, Output Voltage: 0 ~ 80V, Output Current: 0 ~ 160A,		
		DC Room	01 No.	Panel # 5: 50Hz, Induction Voltage Adjustable Regulator Type: KGT-2E, 3-Phase, 380V, Input current: 29.9A, O.P Voltage: 650V		
		PT Room	02 No.	Panel # 6: Selicon Rectifier Cubicle Type: GLF-2500/1200, Input: 3Ø, 430V, Rectifier Voltage: 1200V, Rectifer Current: 2500A		
		PT Room	01 No.	Panel # 7: Breaker Control Cubicle Type: KQ-80		

Sr. No	Equipment Name	Area/Location	Installed Qty:	Description	Make (Local/ Import)	Remarks
C.	**Electrical Equipment Unit # 2, 3, 4**					
		PT Room	01 No.	Panel # 8: De-Excitation Control Cubicle Type: KQ-81-A Max: De-Excitation Current: 2500A, Voltage: 500V		
4	**Generator CTs**		12 Nos.	LRZB-20, 12000/5, Rated V 20KV, 50HZ, Accuracy 5P, 4.2Ω, Accuracy Limit Factor 15	Shenyang Instrument Transformer China	
5	**Generator Nutral Point Resistance**		01 No.	15.75Kv, 0.6Ω,	Fuxin Enclosed Bus Factory China	
8	**Main Transformer Unit # 4**		01 No.	Model: SFP7-250000 / 220 TA Type: Oil Immersed, Out door, Oil Forced Air Forced (ODAF) Cooled Rated power: 250000 KVA Rated voltage: 220 ± 4 X 2.5% / 15.75 KV Rated current: 656.1 / 9164.3 A Rated frequency: 50 Hz Type of cooling: ODAF Number of phases: 3 Connection of symbol: YN.d1 Temp: classification: A Temperature rise: 60 K Noise level: 90 Db No load loss: 613.7 KW Load loss: 609.9 KW No load current: 0.28% Impedance voltage: 13.5% **WEIGHT:** 1. Active parts: 173.66 T 2. Oil: 64.49 T	Shenyang Transformer Works, China	
9	**Starting Transformer Unit # 2**		01 No.	Type: SFPZ7-25000 / 220 TA Rated Power: 25000 KVA Rated Voltage: 220 ± 6 X 1.5% / 6.9 KV Rated Current: 56.6 / 2092 A Rated Frequency: 50 Hz Type of Cooling: OFAF Number of Phases: 3 Connection of Symbol: YN-yn0-d1 Temp: Classification: A Temperature Rise: W = 60 K, O = 50 K Noise Level: 78 dB No Load Loss: 34.5 KW Load Loss: 110.7 KW No Load Current: 0.4% Impedance Voltage: 11.2% **WEIGHT:** 1. Active Parts: 44.26 T 2. Oil: 47.69 T	Shenyang Transformer Works, China	
13	**Auxiliary Transformer Unit # 4**		01 No.	Rated Power: 25000 KVA Rated Voltage: 15.75 ± 7 X 2% / 6.9 KV Rated Current: 916.4 / 2092 A Rated Frequency: 50 Hz Type of Cooling: ONAN Number of Phases: 3 Connection of Symbol: D, Yn11 Temp: Classification: A Temperature Rise: W = 60 K, O = 50 K Noise Level: 90 dB No Load Loss: 18 KW Load Loss: 116.5 KW No Load Current: 0.29% Impedance Voltage: 12.2% **WEIGHT:** 1. Active Parts: 27500 KG 2. Oil: 19500 Kg	SHENYANG TRANSFORMER WORKS, CHINA	
	Distribution Transformer	5-Mtr	02 Nos.	Type: SG-250, Rated Power: 250 KVA Rated Voltage: 380V/220V Rated Current: 380 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	SHENYANG TRANSFORMER WORKS, CHINA	

Sr. No	Equipment Name	Area/Location	Installed Qty:	Description	Make (Local/ Import)	Remarks
C.	**Electrical Equipment Unit # 2, 3, 4**					
14	**Lighting Transformer**		12 Nos.	Type: SG-50, Rated Power: 50 KVA Rated Voltage: 380V/220V Rated Current: 76 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	SHENYANG TRANSFORMER WORKS, CHINA	
14	**Lighting Transformer**	Instrument Air Compressor Room	02 Nos.	Type: SG-30, Rated Power: 30 KVA Rated Voltage: 380V/220V Rated Current: 40.5 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	SHENYANG TRANSFORMER WORKS, CHINA	
14	**Lighting Transformer**	H2 Gas Generation Plant	01 Nos.	Type: SG-15, Rated Power: 15 KVA Rated Voltage: 380V/220V Rated Current: 22.8 A Rated Frequency: 50 Hz Number of Phases: 3 Connection of Symbol: DYn11	SHENYANG TRANSFORMER WORKS, CHINA	
15	**Dry Type Transformer for Service Station T/F (Common & Unit)**	10-Mtr	02 Nos.	Type: SCL-1600, 1600 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 6% Vector Group: Dy11 Insulation Type: IEC Standard	SHENYANG TRANSFORMER WORKS, CHINA	
16	**Dry Type Transformer for Cooling Tower Pump House**		02 Nos.	Type: SCL-1250, 1250 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 6% Vector Group: Dy11 Insulation Type: IEC Standard	SHENYANG TRANSFORMER WORKS, CHINA	
17	**Dry Type Transformer for Demi Plant**		02 Nos.	Rated Capacity: 500KVA Rated HV: 6.6KV Rated LV: 0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 4% Vector Group: Dy11 Insulation Type: IEC Standard	SHENYANG TRANSFORMER WORKS, CHINA	
18	**Dry Type Transformer for Water Pretreatment Plant**		02 Nos.	Type: SCL-1000, 1000 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 4% Vector Group: Dy11 Insulation Type: IEC Standard	SHENYANG TRANSFORMER WORKS, CHINA	
19	**Dry Type Transformer for Fuel Oil Station**		02 Nos.	Type: SCL-315, 315 KVA, 6.6/0.4KV Non Exciting Regulation: ± 2 X 2.5% On Load Regulation: ± 6% Vector Group: Dy11 Insulation Type: IEC Standard	SHENYANG TRANSFORMER WORKS, CHINA	
20	**Unit Section 6.6kv Switchgear Type: JYN2-10-02 Unit # 4 (Trolley 1 out of 28)**	6.6 Kv Switchgear 5-Mtr	07 Nos.	**6.6kV Switchgear Specification** Copper Bus Bar Size in cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (8X80) X 3, (10X80) X 3 **6.6 KV VCB Breaker Trolley Specification:** Type: 3AF-1051-4, 7.2KV, 800A, Made in Germany	China	
	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-01 Unit # 4	6.6 Kv Switchgear 5-Mtr	01 No.	**6.6kV Switchgear Specification** Copper Bus Bar Size in cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (8X80) X 3, (10X80) X 3 6.6 KV Trolley Specification: 3AF-1051-4FA50-8EA2	China	
	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-14	6.6 Kv Switchgear 5-Mtr	01 No.	**6.6kV Switchgear Specification** Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (8X80) X 3 6.6 KV Trolley Specification: Unit Aux. Bus PT	China	
	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-21	6.6 Kv Switchgear 5-Mtr	01 No.	**6.6kV Switchgear Specification** Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3, (8x80)x3 6.6 KV Trolley Specification: Unit Aux Bus Incoming PT & LA	China	

Sr. No	Equipment Name	Area/Location	Installed Qty:	Description	Make (Local/ Import)	Remarks
C.	**Electrical Equipment Unit # 2, 3, 4**					
	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-40	6.6 Kv Switchgear 5-Mtr	01 No.	**6.6kV Switchgear Specification** Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 6.6 KV VCB Breaker Trolley Specification: Type: 3AF-1156, 7.2KV, 2500A, Made in Germany	China	
	Unit Section 6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-38	6.6 Kv Switchgear 5-Mtr	02 No.	**6.6kV Switchgear Specification** Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 **6.6 KV VCB Breaker Trolley Specification:** - 6.6kV Unit Aux. Bus Incoming Cable. - 6.6KV Unit Aux. Bus Tie Cable.	China	
	6.6kv Switchgear Bus Bar Scheme Type: JYN2-10-44	6.6 Kv Switchgear 5-Mtr	01 No.	**6.6kV Switchgear Specification** Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 6.6 KV VCB Breaker Trolley Specification: Unit Aux. Bus Tie Disconnecting Plug	China	
	Commn Section 6.6kv Switchgear Type: JYN2-10-02	6.6 Kv Switchgear 5-Mtr		6.6kV Switchgear Specification Copper Bus Bar Size in mm/cm: Primary Side: (2x10x100) x 3 Sub. Section of Bus Bar Size: (2x10x100) X 3 6.6 KV VCB Breaker Trolley Specification: Type: 3AF-1156, 7.2KV, 2500A, Made in Germany	China	
21	**Battery Bank**	Battery Room	03 Set (each 130 Nos)	FLAT PLATE LEAD ACID BATTERY SET (1600 AH) Type: TK – 41 Capacity of 1600AH at 10 Hrs., Rate of Discharge 1.8V PC at 25C	Make Exide pakistan	
22	**Main Battery Bank Charger**	DC Room (5 meter)	01 No.	200KVA,	China	
23	**Thruster Charger Device (Additional Charger)**	DC Room (5 meter)	01 No.	Type: KGCA-15A/72V	China	
24	**Static Un-Interruptible Power Supply System (UPS)**	DC Room (5 meter)	01 No.	Type: B-3111 (10KVA) Input Supply 380V, Out Put : 220V ac	Siemens	
25	**Static Un-Interruptible Power Supply System (UPS)**	DC Room (5 meter)	01 No.	Type: B-3113 (30KVA) Input Supply 380V, Out Put : 220V ac	Siemens	
26	**M.E Breaker (withdrawable type) for 0.4KV Switchgear**	Pump House, Demi Plant,		**Type: ME630** Rated Working Voltage: 660V AC Rated Current: 630 A, Capacity Current Value: 84 KA Total Making & Breaking Time: 30 mSec: Rated Short Time withstand Current: 30 KA	Shanghai Renmix Electrical Apparatus Works China	
		Pump House, Demi Plant,		**Type: ME800** Rated Working Voltage: 660V AC Rated Current: 630 A, Capacity Current Value: 84 KA Total Making & Breaking Time: 30 mSec: Rated Short Time withstand Current: 30 KA	Shanghai Renmix Electrical Apparatus Works China	
		Pump House, Demi Plant,		**Type: ME3200** Rated Working Voltage: 660V AC Rated Current: 630 A, Capacity Current Value: 84 KA Total Making & Breaking Time: 30 mSec: Rated Short Time withstand Current: 30 KA	Shanghai Renmix Electrical Apparatus Works China	
	Rectifier for Electrochemistry (Hydrogen Rectifier Series)			Model # GHF-350A/45V-75V Input of the Rectifier: 3-Phase, 50Hz, 380V Output Volt: range: DC 45V-75V, DC Current: 350A	China	

Thermal Power Plant Data - Power Sector Indigenization Plan					
Sr. No	**Equipment Name**	**Area/Location**	**Installed Qty:**	**Description**	**Make (Local/ Import)**
D.	**Electrical Motors Unit # 2**				
1	Asynchronous Motor for Boiler Feed Pump	Turbine	03 Nos.	3200KW, 6.6KV, 329 RPM, 50HZ	
2	B.F.P LUBE OIL PUMP MOTOR	Turbine	03 Nos.	5.5KW, 380V, 12/7A, 1440RPM, 50HZ, 6208ZZ (D.E), 6206ZZ (N.D)	
3	3-Phase Motor for RC VALVE B.F.P	Turbine	03 Nos.	380V, 1.6A, 1400rpm, 45.6Ω, 6208	
4	Asynchronous Motor for C.P MOTOR	Turbine	03 Nos.	250KW, 6.6KV, 27.1A, 1487RPM, 29422E, 6220	
5	Asynchronous Motor for I.D.F MOTOR	Boiler	02 Nos.	1600KW, 6.6KV, 184A, 745RPM, 50HZ,	
6	I.D FAN LUBE OIL 3-PHASE MOTOR	Boiler	02 Nos.	5.5KW, 380V, 11.6A, 1440RPM, 50HZ	
7	Asynchronous Motor for F.D.F MOTOR	Boiler	02 Nos.	1000KW, 6.6KV, 122.6A, 747RPM, 50HZ,	
8	Asynchronous Motor for G.R.F MOTOR	Boiler	02 Nos.	200KW, 6.6KV, 21.6A, 1487RPM, 50HZ, NU 222 (R), 6222 (B),	
9	Asynchronous Motor for C.W.P. MOTOR	Pump House	03 Nos.	1600KW, 6.6KV, 175A, 495RPM, 50HZ, 5EB 262073, 5EB 263188	
10	C.W.P LUBE. PUMP MOTOR	Pump House	03 Nos.	2.2KW, 380V, 4.7A, 2840RPM, 50HZ, 6205	
11	C.T. FAN MOTOR	Cooling Tower	12 Nos.	160KW, 380V, 301A, 1481RPM, 50HZ, 6320 E (R), NU 320 E	
12	3-Phase Motor for B.C.W MOTOR	Turbine	02 Nos.	75KW, 380V, 140A, 1480RPM, 50HZ	
13	Turning Gear MOTOR	Turbine	01 Nos.	30KW, 380V, 67.5A, 750RPM, 50HZ, N 313, 6317	
14	J.O.P MOTOR	Turbine	02 Nos.	18.5KW, 380V, 35.9 A, 1470RPM, 50HZ, 6311Z1	
15	3-Phase Motor for Gland Fan Motor	Turbine	02 Nos.	11KW, 380V, 21.6A, 2930RPM, 50HZ, 6309Z1	
16	FUME. EX. MOTOR TURBINE SIDE	Generator	02 Nos.	0.75KW, 380V, 2A, 2825RPM, 50HZ, 6205	
17	FUME EXTRACT MOTOR GENERATOR	Generator	02 Nos.	0.75KW, 380V, 3.1/2A, 2825RPM, 50HZ, 6204	
18	H.P BY PASS MOTOR	Turbine	01 Nos.	7.5KW, 380V, 15.6A, 1440RPM, 50HZ	
19	3-Phase Motor for STATOR C.W	Generator	02 Nos.	22KW, 380V, 44.2A, 2940A, 50HZ, 6311	
20	STARTING OIL PUMP MOTOR	Turbine	01 Nos.	230KW, 0.4Kv, 407A, 2984rpm, 50Hz, 6316	
21	A.C SEAL OIL PUMP MOTOR (AIR SIDE)	Generator	01 Nos.	5.5KW, 380V, 11A, 2900RPM, 50HZ, 6308	
22	A.C SEAL OIL PUMP MOTOR (H_2 SIDE)	Generator	01 Nos.	4KW, 380V, 8.67 A, 1440RPM, 50HZ, 6306	
23	D.C SEAL OIL PUMP MOTOR	Generator	01 Nos.	5.5KW, 220V, 31A, 3000RPM, 50HZ	
24	D.C LUB OIL PUMP MOTOR	Turbine	01 Nos.	13KW, 220V, 26.7A, 3000RPM, 6308	
25	R.O SERVICE MOTOR	RO	01 Nos.	37KW, 380V, 70/40.4A, 1480RPM, 6313, NU313	
26	OIL PURIFIER MOTOR	Turbine	01 Nos.	5.5KW, 380V, 11.18A, 1440RPM	
27	COND. DRAIN PIT 3-PHASE MOTOR	Turbine	02 Nos.	18.5KW, 380V, 35.9A, 1470RPM, 50HZ, HH313, 6313	
28	L.P DRAIN PUMP MOTOR	Turbine	01 Nos.	55KW, 380V, 105A, 2800RPM, 50HZ, 6314	
29	CIRCULATING COOLER MOTOR			15KW, 380V, 29.4A, 2930A, 50HZ, 6309	
30	INJECTION PUMP FOR C.W.P			0.75KW, 380V, 2A, 1390RPM, 50HZ	
31	ALUM AGITATOR			1.5KW, 380V, 3.6A, 1400RPM, 50HZ	
32	SERVICE AIR COMPRESSOR	Compressor	01 No.	130KW, 380V, 247A, 720RPM, 50HZ	
33	AIR PRE HEATER (A.C) MOTOR	Boiler	02 Nos.	11KW, 380V, 22.6A, 1460RPM, 50HZ, 6309	
34	AIR PRE HEATER (DC) MOTOR	Boiler	02 Nos.	10KW, 220V, 53.8A, 4500RPM, 50HZ, 6309	
35	A.P.H UPPER & DOWN LUB UP MOTOR DOWN	Boiler		1.1KW, 380V, 2.7A, 1400RPM, 50HZ	
36	A.P.H (A.C) LUB MOTOR	Boiler	02 Nos.	30W, 1400 RPM, 380V, 0.9A, 6200	
37	A.P.H (D.C) LUB MOTOR	Boiler	02 Nos.	50W, 220V, 0.44A, 1500RPM	
38	A.P.H (Soot Blower) MOTOR	Boiler	02 Nos.		
39	BOILER DRAIN PUMP MOTOR	Boiler	02 Nos.	22KW, 380V, 42.2A, 2940RPM, 50HZ, 6311(B)	
40	UNIT DRAIN PIT MOTOR	Turbine	02 Nos.	45KW, 380V, 50HZ, 6314	
41	D.P FOR AIR WARMING DEVICE			22KW, 380V, 42.2A, 2940RPM, 50HZ, 311 HR 9 (B	
42	SCANNER FAN MOTOR	Boiler	02 Nos.	3KW, 380V, 6.4A, 2880RPM, 50HZ, 6206	
43	6.6 KV FIRE PUMP MOTOR	Fire Fighting	01 No.	280KW, 6600V, 30A, 1481RPM, 50HZ, IY, 0.867	
44	0.4 KV SMALL FIRE FIGHTING PUMP MOTOR	Fire Fighting	02 Nos.	22KW, 380V, 42.2A, 2940RPM	
45	DEMI TRANSFER MOTOR	Demi Plant	02 Nos.	15KW, 380V, 29.4A, 2930RPM, 50HZ, 6309	
46	INST. AIR COMP. MOTOR	Compressor	02 Nos.	130KW, 380V, 256A, 590RPM, 50HZ, NU 320 (R), 6320 (B), 6320 (B)	
47	BLOWER FAN MOTOR DEMI PLANT	Demi Plant	01 No.	12KW, 380V, 24.6A, 1440RPM, 50HZ	
48	L.P HEATER MOTOR		01 No.	37KW, 380/660V, 70/40.4A, 1480RPM, 50HZ	
49	RE-CIRCULATION VALVE MOTOR			15KW, 380V, 29.4A, 2930RPM, 50HZ, 6309	
50	INTAKE PUMP MOTOR		04 Nos.		
51	A.C LUBE OIL PUMP MOTOR	Turbine	01 No.	30KW, 380V, 51.33A, 2950RPM, 50HZ, 6312	
52	L.P BY PSS MOTOR	Turbine	01 No.	7.5KW, 380V, 15.6A, 1440RPM, 50HZ	
53	DEMI PUMP MOTOR	Demi Plant	02 Nos.	5.5KW, 380V, 11.1A, 2900RPM, 50HZ, 6309	
54	WEST WATER PUMP D-PLANT		01 No.	2.2KW, 380V, 4.4 A, 1440RPM, 50HZ	
55	ALK. UNLOADING PUMP MOTOR		01 No.	2.2KW, 380V, 4.7A, 2840RPM, 50HZ	
56	ALK. TRANS. OUTLET MOTOR		01 No.	2.2KW, 380V, 50HZ, 2840RPM	
57	DILT. ALK. TK. AGITATOR MOTOR			1.5KW, 380V, 3.6A, 1400RPM, 50HZ	
58	DILT. ALK. DOZ. PUMP MOTOR			1.5KW, 380V, 3.6A, 1400RPM, 50HZ	
59	BRINE SOLUTION MOTOR			3KW, 380V, 6.4 A, 2880RPM, 50HZ	
60	GEAR OIL PUMP MOTOR			5.5KW, 380V, 11.8A, 1440RPM, 50HZ	

Thermal Power Plant Data - Power Sector Indigenization Plan					
Sr. No	**Equipment Name**	**Area/Location**	**Installed Qty:**	**Description**	**Make (Local/ Import)**
D.	**Electrical Motors Unit # 2**				
61	SMOKE EXHAUST MOTOR OIL		01 No.	1.5KW, 380V, 5.4A, 2840RPM, 50HZ	
62	REGENERATION CAUSTIC DEMI PLANT		01 No.	5.5KW, 11.1A, 2900RPM, 50 HZ	
63	SERVICE WATER PUMP D-PLANT	Demi Plant	02 Nos.	22KW, 380V, 42.2A, 2940RPM, 50HZ	
64	SERVICE PUMP MOTOR			7.5KW, 380V, 15A, 2900RPM, 50HZ, 6311	
65	WASTE WATER PUMP MOTOR			22.5KW, 380V, 42.2A, 2930RPM, 50HZ	
66	BOOSTER PUMP MOTOR DEMI PLANT	Demi Plant	01 No.	15KW, 380V, 29.4A, 2930RPM, 50HZ, 6308	
67	ACID DECANTING PUMP MOTOR		01 No.	5.5KW, 380V, 11.4A, 2900RPM	
68	DEMI AIR PLANT COMPRESSOR	Demi Plant	01 No.	22KW, 380V, 47.6A, 730RPM	
69	P.T ROOM EXHAUST FAN	Generator	01 No.	380V, 2.13A, 1400RPM, 50HZ, 6201	
70	UTILITY PUMP		02 Nos.	7.5KW, 380V, 15A, 2900RPM, 50HZ, 6308	

NAME PLATE DATA OF MAJOR EQUIPMENTS OF BOILER NO.2,3 &4

(Conformance documents for LOT-1 Vol:III) DATA SHEETS

Sr No:	Name of equipment & Description	Qty:
1.	**High Pressure Boiler** Type: HG-680/140-Y1 Design pressure: 140 kg/cm^2 Design Superheated outlet temperature:: 541^{o}C Design Reheater outlet temperature:: 541^{o}C Make : Harbin Boiler works China	**03**
2.	**Forced Draft Fan** Type: Air Foil single width Capacity : 491400m3/hr Static Pressure: 520 mmAq Speed : 750 rpm Shaft Power: 1250kW Weight:30Ton Each Make: Shenyang Blower works China	06 Set
3.	**Induced Draft Fan** Type: Horizontal Constant speed Capacity : 775200m3/hr Static Pressure: 450 mmAq Speed : 745 rpm Shaft Power: 1400kW Weight:65Ton Each Make: Shanxi Blower works China	06 Set
4.	**Gas Recirculation Fan** Type: Horizontal Constant speed Capacity : 138200 m3/hr Static Pressure: 316 mmAq Gas Temp: 310 ^{o}C Speed : 1450 rpm Shaft Power: 220kW Weight:3.79Ton Each Make: Shanyang Blower works China	**06 Set**
5.	**Air Pre Heater** Type: 26-VIX-2550 (LJUNGSTROM REGENERATIVE) Total Heating surface: 11640 m^2/Set Speed:1.70 rpm Dimension of Rotor: mm Length of Housing: mm Width of Housing: mm Height of Housing: mm Total Weight:190 Ton each Make: Harbin Boiler works china	**06 Set**
6.	**Steam Coil Air Pre Heater**	**06 Set**

	Type:NFTIII-2-4 Heating Surface Area:162.49 m^2 per piece Design Presuure: Kg/cm^2 Design Temperature: ^oC Serial No: Net weight:910.7Kg/piece No:of Heating section:4 Make:Hankou Electric apparatus work china	
7.	**Oil Burner** Type:Y-Jet steam Atomizing burner Burner Type: Y-Jet steam Atomizing burner Minimum Fuel Pressure:15Kg/cm^2 Atomizing Steam Pressure: 13Kg/cm^2 Atomizing Steam Consumption:200Kg/Hr Make:Harbin Boiler Works China	**48Set (16each)**
8.	**Ignitor** Type: Steam atomizing Atomizing Oil Pressure:15Kg/cm^2 Max 21Kg/cm^2 Atomizing Steam Consumption:200kg/hr Electric source: S/Phase 110V,50Hz Make: Harbin Boiler Works China	**48Set (16each)**
9.	**Burner Valve** Type:Ball Valve Make: Harbin Boiler Works China	**48Set (16each)**
10.	**Flame Detector** Type:Visible optical Fabric Make: Harbin Boiler Works China	**48Set (16each)**
11.	**Steam Converter** Type: 2F-230 Weight:64 Ton	**03**
12.	**Steam Converter drain Cooler** Type: Horizontal Heating Surface:35 m^2 Feed Water Flow:24.7 Ton/Hr Make: Harbin Boiler works china	**03Set**
13.	**House Boiler** Type:SZY-20-13 Design pressure:1315Kg/cm^2 Design Temp:194 ^oC Capacity:20000kg/hr Heat Surface area:506.8 m^2 Type of fuel: HSD Oil Make: Harbin Boiler works china	**01**
14.	**House Boiler Feed Water Tank** Capacity:10 m^3	**01**
15.	**House Boiler Burner**	**02**

	Atomizing method:Mech:Atomizing with return oil	
16.	**Steam Reducer Feed Water pump** **Type:3N6x2** **Capacity:22-46 Tons/hr** **Suction Head:3m** **Make:Sgenyang pump works china**	**06 Set**
17.	**Forced Draft fan of House boiler** Type:G4-73-11-8D Capacity:521m^3/min Static pressure:211mmH_2O	**01**
18.	**House Boiler Drain Recovery Tank**	**01**
19.	**Economizer** Type: Horizontal Bare Tubes Effective heating surface:3958 m^2 Tube Ø 42x5 Nos:110x3 Material: Carbon Steel	**330 No's**
20.	**Economizer Header** Tube Ø 273x10 Length:11000mm Nos:04 Material: Carbon Steel	**06**
21.	**Super Heater and attemperator**	
22.	**Type of Superheater:Primary, Secondary & Final** Tube (Primary) Ø 42x5 mm Tubing(Secondary) Ø 42x5 mm Tubing(Final) Ø 42x5 mm Material:12Cr1MoV **Header:** Tube (Primary) Ø 325/377x15 mm Tubing(Secondary) Ø 325x15 mm Tubing(Final) Ø 325/426x15 mm **Material: Alloy Steel**	
23.	**Attemperator** Type:Spray Water Type No: 02 Material: Alloy Steel Range Of constant super heater outlet temperature: +,- 5°C	
24.	**Final Super heater tube element** DRG No:1342-105 OD=42mm,Thicknees:5mm Quantity:80rows X3(80Coils) Net Weight:72720kg Make:Harbin Boiler works china	**80 Coils**
25.	**Reheater** Type of Rehater:Horizontal Drainable convection Heating surface area: Primary:8370 m^2 Secondary: 3040 m^2	**1(Primary)** **02(Secondary)**

	Tubing Dia(Primary)Ø 51x4 Tubing Dia(Secondary)Ø 51x4 Material: Carbon Steel Header: Primary Ø 508x10mm Secondary Ø 508x10mm Material: Carbon Steel	
26.	**Drum** Internal Dia:1800mm Length:21500mm Thickness:100mm Design Pressure:166kg/cm^2 Material:BHW-35(Alloy Steel)	**03 Nos**
27.	**Retractable Soot Blowers (Long)** DRG 72308-0-0 Weight:2.2 Tons	**60 Nos**
28.	**Retractable Soot Blowers (Half)**	**48 Nos**
29.	**Scanner Fan**	**06 Nos**
30.	**Head valves for soot blowers** DRG D--80-05-0 **Weight:0.8 Tons**	**108**
31.	**Feed water regulating valve** Drg No. 2344.017 DN 150 , PN 100 **Weight:3.6 Tons**	**03**
32.	**Flame Detector Cooling Air Fan** **Type:S-32-11 No.5** **Capacity 35m3/min** **Shaft Power:3.35Kw 02 each** **Weight:4.8 Tons**	**06 nos**
33.	**Seal Air Booster Fan**	**03 nos**
34.	**Periodic Blow Down Flash Tank (DP-35)** DRG 3252-044 Type:DP-35/LP-1.5-2 Capacity:35 Tons Weight:26.5 Tons	**03Set**
35.	**Makeup water Storage Tank**	**03**
36.	**Residual Serivce Oil Tank** Type:Cone-roof Capacity:250 M^3 Tank Dia:7300mm Height:6400mm Material:Steel Thicness:(1) Bottom Plate=6mm(02)Shell Plate=6mm(03) Roof Plate=6mm Weight:11.8Tons each	**03 Set**
37.	**Residual Oil Pump**	**09 Set**

	Type:SNH1300-46 Screw Capacity:37.6Tons/hr Discharge pressure:30kg/cm^2 Shaft Power:46kW Speed:960rpm Make:Tianjin Industrial Pump Works china	
38.	**Residual Oil Heater** Type:Horizontal U Tube Heating Surface:175 m^2 Oil Flow:60 Tons/hr Steam Flow:4.58 Tons/hr Steam pressure:3kg/ cm^2 Material :Carbon Steel Make: Harbin Boiler works china	**06 Set**
39.	**HSD Oil Service Tank** Type:Cone-roof Capacity:100 M ^{3} Tank Dia:5300mm Height:4600mm Material:Steel Weight:8000kg Make: Harbin Boiler works china	**03 Set**
40.	**HSD Oil Pump** Type:3U45-40 Screw Capacity:6109 kg/hr Discharge pressure:40kg/cm^2 Shaft Power:14.8kW Speed:2900rpm Make: Shenyang pump manufactory china	**06 nos**
41.	**Flame Detector Cooling Air Fan** Type:S-32-11No.5 Centrifugal Capacity:35 m3/min Design Temperature:20 ^{o}C Shaft Power:3.35kW Make:Siping Blower Factory China	**06 Set**
42.	**S.H Steam Line safety valve** Size:2 1/2"x6" Type: 1739WD-2-S Sr No: BY11240 To BY11245 Set Pressure:146.4 kg/cm^2	**06 Nos**
43.	**Boiler Drum Safety Valve** Size:2 1/2"x6" Type: 1739WA-2-S Sr No: BY11228 To BY11239 Set Pressure:162.8 kg/cm^2, 164.4 kg/cm^2, 166.1 kg/cm^2, 167.7 kg/cm^2,	**12 Nos**

44.	**Cold Re-Heat steam line Safety Valve** Size:6"x 8" Type:1785 WB-2-S Sr No: BY11286 To BY11291 Set Pressure:26.15 kg/cm^2	**12 Nos**
45.	**Hot Re-Heat steam line Safety Valve** Size:4"x 8" Type:1775 WD-2-S Sr No: BY11246 To BY11257 Set Pressure:29.2 kg/cm^2 , 29.5 kg/cm^2, 29.8 kg/cm^2,30.1kg/cm^2	**06 Nos**
46.	**Stack/Chimney** Dimension: Height:153M Top Outside Diameter:11.439M Bottom Outside Diameter:15.200M Re-inforced Bar:ASTM Grade 40	**01 Nos**
47.	**Furnace wall blower** Type:RC-III Travel:300mm Blowing Medium:Steam Steam Temp:350 ^oC Steam Press:1.8 to 2.2Mpa Diameter at Nozzle throat:25mm Spray angle of nozzle:10 ^{o} No Of Nozzle:01 Weight:188Kg **DRG No:72121-0-0**	**01**
48.	**Wall operator assembly** Weight:14.2 Kg DRG No:D83.02-0A	
49.	**Travel Carriage assembly of Soot Blower** Weight:30.25kg DRG No-D84.02-0	
50.	**Gear Box Assembly of Soot Blower** Weight:68.7Kg DRG No-D84.01-0A	
51.	**Head Wall assembly** Weight:24.1Kg DRG No-D80.04-0WX	
52.	**Lance Tube** Weight:32.5Kg DRG No-72308-9-0A	
53.	**Accessory for travel carriage assembly** Weight: 6.22Kg DRG No-D83.10-0	
54.	**Swivel Tube** Wight:8.2Kg DRG No-72121-3-11-0	

PAKISTAN

WATER AND POWER DEVELOPMENT AUTHORITY

OIL - FIRED THERMAL POWER STATION PROJECT

JAMSHORO UNITS No. 2, 3 & 4

CONFORMANCE DOCUMENTS

FOR

LOT - I

POWER PLANT EQUIPMENT

VOLUME-III

DATA SHEETS

PAKISTAN ENGINEERING SERVICES (PRIVATE) LTD.
KARACHI - PAKISTAN

VOLUME-III

DATA SHEETS

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POWER PLANT UNITS

The Contractor shall fill the following blanks for each unit.

Guaranteed Plant Performance

1.1 Average net plant heat rate

(1) Guaranteed average net plant heat rate (Weighted average of net plant heat rates)	(kcal/KWH)	2584
(2) Net plant heat rate at Maximum continuous rating	(kcal/KWH)	2718
at rated output	(kcal/KWH)	2580
at 25% of rated output	(kcal/KWH)	3498.5
at 50% of rated output	(kcal/KWH)	2836
at 75% of rated output	(kcal/KWH)	2630
at Economical rating	(kcal/KWH)	2500

1.2 Plant Maximum Load

Generator Output	(MW)	210
Main steam pressure at turbine throttle	(kg/cm^2g)	131
Main steam temperature at turbine throttle	(^oC)	538
Reheat steam temperature at reheat stop valve	(^oC)	538
Condenser Pressure	(mmHg abs)	82.55
Make-up Water	(%)	0
Power factor		0.85

1.3 Maximum Continuous Rating (MCR)

Generator output	(MW)	200
Main steam pressure at turbine throttle	(kg/cm^2g)	131
Main steam temperature at turbine throttle	(^oC)	538

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Reheat steam temperature at reheat stop valve	(^{o}C)	538
Condenser Pressure	(mmHg abs)	132
Make-up Water	(%)	1
Power factor		0.85

1.4 Plant Minimum Load

Generator output	(MW)	50
Main steam pressure at turbine throttle	(kg/cm^2g)	131
Main steam temperature at turbine throttle	(^{o}C)	480
Reheat steam temperature at reheat stop valve	(^{o}C)	480
Condenser Pressure	(mmHg abs)	82.55
Make-up Water	(%)	0
Power factor		0.85

2. Plant Starting Time

	Cold Start	Warm Start after 24 hours shutdown	Hot Start after 4 hours shutdown
From light-off-steam admission to turbine (minutes)	120	70	40
Steam admission to Synchronizing of turbine (minutes)	60	40	20
Synchronizing to Full Load (minutes)	300	110	70
Total time (minutes)	480	220	130

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SECTION II

STEAM GENERATORS, STEAM TURBINE AND THEIR AUXILIARIES

Note: The Contractor shall guarantee the values with * marks.

1. STEAM GENERATOR

(1)	Type		HG-680/140-Y1
(2)	Manufacturer		Harbin Boiler Works
(3)	Number		3 Sets
(4)	Live steam generating capacity at maximum continuous rating	(Tons/Hour)	680
(5)	Design Pressure	(kg/cm^2g)	140
(6)	Design Superheated outlet Temperature	(^oC)	541
(7)	Design Reheater outlet Temperature	(^oC)	541
(8)	Total Weight	(Tons)	4250 x 3
	Steam generator complete except steel structure	(Tons)	2545 x 3
	Drum	(Tons)	114 x 3
	Boiler supporting steel structure	(Tons)	1705 x 3
(9)	Maximum size for shipping	(meters)	21.5
	Name of Part		Drum
(10)	Maximum weight for shipping	(Tons)	114
	Name of Part		Drum
(11)	Holding water capacity for normal operation	(m^3)	184

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(12) Performance data of steam generator

Items		Minimum Load (50) MW	50% Load (100) MW	75% Load (150) MW	ECR (200) MW	MCR (200) MW	Maximum Load (210) MW
Steam generation	(Tons/Hour)	198.9	321.2	466.8	620	680	680
Spray Water for super heater	(Tons/Hour)	22.1	19.3	18.1	12.4	1.9	0
Spray Water for reheater	(Tons/Hour)	0	0	0	0	0	0
Feed Water Flow	(Tons/Hour)	176.8	301.9	448.7	607.6	678.1	680
Drum Pressure	(kg/cm^2g)	133.0	136.3	142.4	150.9	155	155
Superheater outlet Pressure	(kg/cm^2g)	131.8	133	135.3	138.5	140	140
Reheated steam inlet/outlet pressure	(kg/cm^2g)	8.6/8.0	12.2/11.2	17.9/16.6	23.7/21.9	25.9/24	26/24
Live steam pressure	(kg/cm^2g)						
Steam generator efficiency	(%)	89.71	89.79	89.82	89.86	89.75	89.77
Live steam superheater outlet temperature	(^oC)	483	541	541	541	541	541
Reheat steam inlet/outlet temperature	(^oC)	246/483	284/541	292/541	308/541	315/541	316/541
Feed water temperature at Economizer inlet	(^oC)	190.6	211.0	229.9	245.4	250.7	250.8

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Items		Minimum Load (50) MW	50% Load (100) MW	75% Load (150) MW	ECR (200) MW	MCR (200) MW	Maximum Load (210) MW
Fuel oil consumption	(kg/Hour)	14800	24800	35000	44780	48400	48400
High Calorific value	(kcal/kg)	10400	10400	10400	10400	10400	10400
Forced draft Air Flow	(Nm^3/Hour)	246100	340500	432500	543100	583250	583250
Induct draft gas flow	(Nm^3/Hour)	261400	365200	466800	587200	630920	630920
Excess air	(%)	33	15	5	5	5	5
CO_2 leaving steam generator	(%)	12	13.8	15.1	15.1	15.1	15.1
Flue gas temperature at furnace outlet	(^oC)	855	969	1075	1173	1210	1211
Flue gas temperature at Economizer inlet	(^oC)	321	368	374	386	389	391
Flue gas temperature at Economizer outlet	(^oC)	250	272	288	302	307	307
Flue gas temperature before Air Heater	(^oC)	250	272	288	302	307	307
Flue gas temperature minimum 145^oC after Air Heater	(^oC)	125	126	133	142	144	144
Air temperature after Air Heater	(^oC)	212	238	247	254	257	257

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Items		Minimum Load (50) MW	50% Load (100) MW	75% Load (150) MW	ECR (200) MW	MCR (200) MW	Maximum Load (210) MW
Air temperature before Air Heater	(°C)	90	80	73	73	73	73
Number of burners in use		8	12	16	16	16	16
Draft at Forced Draft Fan outlet	(mm H_2O)	72	99	140	216	250	250
Draft at wind box	(mm H_2O)	46	48	50	76	89	89
Draft at Furnace	(mm H_2O)	-2	-2	-2	-2	-2	-2
Draft at Economizer outlet	(mm H_2O)	55	101	153	190	205	205
Draft at Air heater outlet	(mm H_2O)	74	137	211	281	310	310
Draft at stack inlet	(mm H_2O)	5.3	17.8	55.6	59.3	61.2	61.68

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(13) Guaranteed Performance data

(a) Steam generator efficiency at ECR		* 89.86
Heat losses of steam generator at ECR	(%)	10.14
Heat loss due to heat in dry flue gas		2.49
Heat loss due to moisture in the fuel		0.06
Heat loss due to moisture from burning hydrogen		5.84
Heat loss due to moisture in the combustion air		0.05
Heat loss due to heat in atomizing steam		0
Heat loss due to formation of carbon monoxide		0
Heat loss due to radiation		0.2
Miscellaneous unaccounted heat loss		1.5

(b) Steam generating capacity

Plant Maximum Load	(Tons/Hour)	* 680
MCR	(Tons/Hour)	* 680

(c) Steam Pressure at H.P. turbine inlet

Plant maximum load	(kg/cm^2g)	* 131	± 2
MCR	(kg/cm^2g)	* 131	± 2
ECR	(kg/cm^2g)	* 131	± 2
75% load	(kg/cm^2g)	* 131	± 2
50% load	(kg/cm^2g)	* 131	± 2
Minimum load	(kg/cm^2g)	* 131	± 2

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(d) Steam temperature at H.P turbine inlet

Maximum load	(^{o}C)	* 538 ± 5
MCR	(^{o}C)	* 538 ± 5
ECR	(^{o}C)	* 538 ± 5
75% load	(^{o}C)	* 538 ± 5
50% load	(^{o}C)	* 538 ± 5 / 5
Minimum load	(^{o}C)	* 480 ± 10

(e) Steam Pressure at I.P. turbine inlet

Maximum load	(kg/cm^{2}g)	23.31 ± 2
MCR	(kg/cm^{2}g)	23.27 ± 2
ECR	(kg/cm^{2}g)	21.25 ± 2
75% load	(kg/cm^{2}g)	16.01 ± 2
50% load	(kg/cm^{2}g)	10.82 ± 2
Minimum load	(kg/cm^{2}g)	7.7 ± 2

(f) Steam temperature at I.P. turbine inlet

Maximum load	(^{o}C)	538 ± 5
MCR	(^{o}C)	538 ± 5
ECR	(^{o}C)	538 ± 5
75% load	(^{o}C)	538 ± 5
50% load	(^{o}C)	538 ± 5 / 5
Minimum load	(^{o}C)	480 ± 10

(14) Furnace

Furnace surface	(m^2)	1228
Furnace volume	(m^3)	2566
Inside diameter of tubes	(mm)	47
Furnace release rate	(Kcal/m^{2}H)	326 x 10^3

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	Outside diameter of tubes	(mm)	Ø60
	Thickness of tubes	(mm)	6.5
	Spacing of tubes	(mm)	80
	Material of tubes		Carbon Steel
	Header		
	Outside diameter	(mm)	Ø273
	Thickness	(mm)	40
	Number		40
	Material		Carbon Steel
(15)	Drum		
	Number		3
	Internal diameter	(mm)	1800
	Length	(mm)	21500
	Thickness	(mm)	100
	Design Pressure	(kg/cm^2g)	166
	Material		BHW-35
	Manhole		
	Number		4
	Diameter	(mm)	450
(16)	Economizer		
	Type		Horizontal Bare Tubes
	Effective heating surface	(m^2)	3958
	Tube		
	Number		110 x 3
	Spacing	(mm)	89

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Outside diameter	(mm)		42
Thickness	(mm)		5
Material			Carbon Steel
Header			
Number			4
Diameter	(mm)		273
Thickness	(mm)		Later
Length	(mm)		~ 11000
Material			Carbon Steel

(17) Superheater and attemperator

	Primary	Secondary	Final
Type of superheater		Combination	
Heating surface (m^2)		(Per each boiler)	
Radiant	292		
Radiant and convection	595		
Convection		1766	1766
Tube			
Distance between tube and tube (mm)	240	120	120
Outside diameter (mm)	42	42	42
Thickness (mm)	5	5	5
Material	12 Cr 1 MoV	12 Cr 1 MoV	12 Cr 2 MoVTib
Header			
Number	2	2	4
Outside diameter (mm)	325 377	325	325 426
Thickness (mm)	Later	Later	Later
Material	Alloy	Alloy	Alloy

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	Steam temperature control range	± 5°C		
	Attemperator			
	Type	Spray Water Type		
	Number	2		
	Material	Alloy		
	Range of constant super heater outlet temperature	± 5°C		
(18)	Reheater and attemperator			
	Type of reheater	Horizontal Drainable, Convection		
	Heating surface (m^2)	Primary	Secondary	Final
		(Per each boiler)		
	Radiant			
	Radiant and convection			
	Convection	8370	3040	
	Tube			
	Distance between tube and tube (mm)	120	120	
	Outside Diameter(mm)	51	51	
	Thickness (mm)	4	4	
	Material	Carbon Steel & 12Cr 1MoV	12Cr 2MoWVTiB	
	Header			
	Number	1	2	
	Outside Diameter(mm)	508	508	
	Thickness (mm)			
	Material	Carbon Steel	Alloy	
	Steam temperature control range	± 5°C		
	Attemperator			
	Type	Sprary Water Type		
	Number	2		
	Material	Carbon Steel		

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(19)	Safety valve Number and Type	
	Drum	Four (4) full bore
	Super heater	Two(2) full bore One(1) Relief valve
	Reheater	Eight(8) full bore
(20)	Casing	Inner Outer
	Material	Corrosion Resistant Aluminum
	Thickness (mm)	1
	Total number of inspection holes for steam generator	16
(21)	Gas air preheater	
	Type	Ljungstrom Regenerative
	Number	6
	Manufacturer	Harbin Boiler Works
	Total heating surface of gas side per set (m^2)	11640
	Speed (rpm)	1.70
	Weight complete (Tons/each)	190
(22)	Steam coil air preheater	
	Type	NFTIII-2-4 Smooth fin tubes
	Number	6 Sets) (8Pieces Per set)
	Manufacturer	Hankou Electric Apparatus Works
	Heating surface of each coil (m^2)	162.49 per Piece
	Number of heating section	4
	Weight (kg/each)	910.7 per piece
(23)	Burners and igniters	
	(a) Burner	
	Type	Y Jet Steam Atomizing Burner
	Number	16
	Manufacturer	Harbin Boiler Works

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Fuel flow	(kg/Hour each)	
Residual Oil		3500
Warm-up Oil		700
Minimum fuel pressure	(kg/cm^2g)	
Residual Oil		15
Warm-up Oil		15
Atomizing steam		
Pressure	(kg/cm^2g)	13
Capacity	(kg/Hour each)	200
Atomizing air		
Pressure	(kg/cm^2g)	NA
Capacity	(m^3/min per each burner)	NA
Turn down ratio, each burner		7:1
Minimum number of burners in service at MCR		14
(b) Igniter		
Type		Steam Atomizing
Number		16
Manufacturer		Harbin Boiler Works
Capacity	(kg/Hour each)	200
Oil Pressure	(kg/cm^2g)	15(Max.21)
Viscosity		19.8 cst.
(c) Flame detector		Visible optical Fabric
Type		
Number		16
Manufacturer		Harbin Boiler Works or Imported
(d) Burner valve		
Type		Ball Valve
Number		
Manufacturer		Harbin Boiler Works

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(24) Soot blower

Type		Steam jet
Number		38 x 3
Super heater		12 x 3
Reheater		6 x 3
Economizer		2 x 3
Others		Furnace 16 x 3 Gas Air Preheater 2 x 3
Manufacturer		Harbin Boiler Works
Control method		Sequence Control

(25) Blow down tank

Type		Periodic/Continuous DP-35 /LP-1.5-2
Number		3 Sets
Capacity	(m^3)	35/1.5
Design Temperature	(^oC)	200/200
Design Pressure	(kg/cm^2g)	6/10.65

(26) Air and flue gas duct

(a) Air duct

Material		Carbon Steel
Thickness	(mm)	4.5

(b) Flue gas duct

Material		Corten Steel
Thickness	(mm)	5

(27) Forced draft fan (FDF) and Induced draft fan (IDF)

	FDF	IDF
Type	Air foil single width	Horizontal constant sp
Number	6 sets	6 sets
Manufacturer	Shenyang Blower Works	Shanxi Bl Works

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		FDF	IDF
Speed	(rpm)	750	745
Capacity per set	(m^3/Hour)	491400	775200
Static Pressure	(mmH_2O)	520	450
Temperature	(^oC)	50	145
Shaft Power	(KW)	Motor Power 1250	Motor Power 1400
Efficiency	(%)	84	80
Complete weight	(Tons/each)	30	65

g) Gas recirculation fan or gas injection fan

Type		Horizontal Constant Speed
Number		6 Sets
Manufacturer		Shenyang Blower Works
Speed	(rpm)	1450
Capacity per set	(m^3/Hour)	138200
Static pressure	(mmH_2O)	316
Gas Temperature	(^oC)	310
Shaft Power	(KW)	Motor Power 220
Efficiency	(%)	Approx.85
Complete weight	(Tons/each)	3.79

) Residual oil, warm-up oil and ignition oil facilities

(a) Residual oil service tank

Type		Cone-roof
Number		3 sets
Capacity	(m^3)	250
Diameter	(mm)	7300
Height	(mm)	6400
Material		Steel

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Thickness		
Bottom plate	(mm)	6
Shell Plate	(mm)	6
Roof Plate	(mm)	6
Weight complete (Tons) approx		11.8
Material and size of heating coils	(mm)	Carbon Steel
Heating area per unit value of the tank	(m^2/m^3)	0.05

(b) Residual oil pump

Type		SNH1300-46 Screw
Number		9 Sets
Manufacturer		Tianjin Industrial Pump Works
Capacity	(Tons/Hour)	37.6
Discharge Pressure	(kg/cm^2g)	30
Shaft Power	(KW)	46
Speed	(rpm)	960
Viscosity	(cst)	70~300

(c) Residual oil heater

Type		Horizontal U Tube
Number		6 Sets
Manufacturer		Harbin Boiler Works
Heating surface	(m^2)	175
Oil flow	(Tons/Hour)	60
Steam flow	(Tons/Hour)	4.58
Steam Pressure	(kg/cm^2g)	3
Inlet oil temperature	(^oC)	45
Outlet oil temperature	(^oC)	100
Temperature of condensate	(^oC)	143
Material		
Tube		Carbon Steel
Shell		Carbon Steel

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(d) HSD oil service tank

Type		Cone-roof
Number		3 Sets
Capacity	(m^3)	100
Diameter	(mm)	5300
Height	(mm)	4600
Material		Steel
Weight complete	(kg)	Approx.8000

(e) HSD Oil Pump

Type		3U45-40 Screw
Number		6 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(kg/Hour)	6109
Discharge Pressure	(kg/cm^2g)	40
Viscosity	(cst)	1.5-584
Shaft power	(KW)	14.8
Speed	(rpm)	2900

(30) Flame detector and television camera cooling air fan

Type		Centrifugal S-32-11No.5
Number		6 Sets
Manufacturer		Siping Blower Factory
Capacity	(m^3/minute)	35
Design Temperature	(^oC)	20
Shaft Power	(KW)	3.35

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(31) Steam generator supporting steel structure

Type			
Manufacturer		Harbin Boiler Works	
Total weight	(kg)	1750	
Size of steel structure		Boiler Area	AH area
Height (m)		55.8	21
Width (m)		30	30
Depth (m)		23.5	10

(32) Steam reducing system

(a) Steam reducer with deaerator

Type		Vertical
Number		3 Sets
Manufacturer		Harbin Boiler Works
Heating surface	(m^2)	400
Heating steam flow	(kg/Hour)	21250
Maximum heating pressure	(kg/cm^2g)	17.0
Maximum heating temperature	(^oC)	400
Secondary steam flow	(kg/Hour)	22000
Secondary steam Pressure	(kg/cm^2g)	4
Feedwater inlet temperature	(^oC)	105 at inlet of deaerator
Weight complete (in dry) approx. (Tons)		25
Weight complete (in service) approx. (Tons)		40

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(b) Steam reducer drain cooler

Type		Horizontal
Number of sets		3 Sets
Manufacturer		Harbin Boiler Works
Heating surface	(m^2)	35
Heating drain flow	(kg/Hour)	21250
Heating drain inlet temp.	(^oC)	172
Heating drain outlet temp.	(^oC)	100
Feed water flow	(m^3/Hour)	24.7
Feed water inlet temperature	(^oC)	45
Feed water outlet temperature	(^oC)	105

(c) Steam reducer feed water pump

Type		3N6 x 2 Horizontal Centrifugal
Number of sets		6 Sets
Manufacturer		Shenyang Pump Works
Capacity	(m^3/Hour)	22-46
Suction head	(m)	NPSH 3
Feed water maximum temperature	(^oC)	100

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2. AUXILIARY EQUIPMENT

2.1 INSTRUMENT AIR SYSTEM

(1) Air compressor

Type		Vertical belt driven
Number		LZ-10/8 6 Sets
Manufacturer		Chenyang Gas Compressor Factory
Cylinder number x cylinder diameter	(mm)	1XØ300 x 1XØ185
Stroke	(mm)	140
Speed	(rpm)	750
Capacity (m^3/minute at free air)		* 10
Suction Pressure	(mm bar)	Atmosphere
Discharge Pressure	(kg/cm^2g)	8
Shaft Power	(KW)	55
Weight approximate		
Compressor	(kg/each)	2500
Motor	(kg/each)	830
Complete set	(kg/each)	3500

(2) Air receiver

Type		Vertical
Number		3 Sets
Manufacturer		Shenyang Gas Compressor Factory
Capacity	(m^3)	75
Diameter	(mm)	3200
Height	(mm)	11875
Design Pressure	(kg/cm^2g)	9

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(3) Air dryer

Type		Silica gel absorber
Number		6 Sets
Manufacturer		Shenyang Gas Compressor Factory
Capacity (m^3/minute at free air)		20
Air Pressure	(kg/cm^2g)	8
Number of gas compressor		2
Weight	(kg/each) approx.	24116
Discharge air temperature	(^oC)	43

(4) Pressure regular and air filter set

Type		Self operated regulator with filter T2260,00-82
Manufacturer		Shenyang Gas Compressor Factory
Air filter		
Type		120
Manufacturer		Shenyang Gas Compressor Factory

(5) Control Panel

Type		Self standing
Height	(mm)	1200
Width	(mm)	800
Depth	(mm)	500

2.2 SERVICE AIR SYSTEM

(1) Air compressor

Type		2 Stage, belt driven 4L-20/8
Number		6 Sets
Manufacturer		Shenyang Gas Compressor Factory
Cylinder number x cylinder diameter	(mm)	1XØ450 x 1XØ250

Stroke	(mm)	240
Speed	(rpm)	400
Capacity (m^3/minute at free air)		20
Suction Pressure	(mm bar)	Atmosphere
Discharge Pressure	(kg/cm^2g)	8
Shaft Power	(KW)	116
Complete weight	(kg/set)	2643

(2) Inter cooler

Type		Finned Circular Tubes
Number		6 Sets
Manufacturer		Shenyang Gas Compressor Factory
Capacity (m^3/minute at free air)		20
Outlet air temperature	(^oC)	43
Outlet cooling water temperature	(^oC)	46

(3) After cooler

Type		Finned Circular Tubes
Number		6 Sets
Manufacturer		Shenyang Gas Compresssor Factory
Capacity (m^3/minute at free air)		20
Outlet air temperature	(^oC)	43
Outlet cooling water temperature	(^oC)	46

(4) Air receiver

Type		Vertical
Number		6 Sets
Capacity	(m^3)	2
Diameter	(mm)	1000
Height	(mm)	2970
Design Pressure	(kg/cm^2g)	9.2

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2.3 CHEMICAL FEED SYSTEM

(1) Hydrazine solution pump

Type		Postitive displacement
Number		6 Sets
Manufacturer		Chungking Pump Works
Capacity	(l/minute)	0.33
Discharge Pressure	(kg/cm^2g)	25
Weight complete (kg/each) approx.		~ 92

(2) Hydrazine solution tank

		Diluted	Concentrated
Type		Vertical	Vertical
Number		3 Sets	3 Sets
Manufacturer		Chungking	Pump Works
Capacity	(m^3)	1	1
Size			
Inside diameter	(mm)	Ø1000	Ø1000
Height	(mm)	1600	1600
Thickness	(mm)	5	5
Material		Stainless steel	Stainless steel

(3) Phosphate solution pump

Type		Positive displacement
Number		6 Sets
Manufacturer		Chungking Pump Works
Capacity	(l/minute)	0.66
Discharge Pressure	(kg/cm^2g)	200
Weight complete	(kg/each)	~ 180

(4)	Phosphate solution tank		
	Type		Vertical
	Number		3 Sets
	Manufacturer		Chungking Pump Works
	Capacity	(m^3)	1
	Material		Stainless Steel
	Dissolving screen material		Stainless Steel
	Weight complete	(kg/each)	300
(5)	Ammonium solution tank		
	Type		Vertical
	Number		3 Sets
	Manufacturer		Chungking Pump Works
	Capacity	(m^3)	1
	Material		Stainless Steel
	Size		
	Inside diameter	(mm)	Ø1000
	Height	(mm)	1600
	Thickness	(mm)	12
(6)	Ammonium solution pump		
	Type		Positive displacement
	Number		6 Sets
	Manufacturer		Chungking Pump Works
	Capacity	(l/minute)	0.33
	Discharge Pressure	(kg/cm^2g)	25
	Weight complete	(kg) approx.	~ 92

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Dissolved oxygen

Type	SYY-II
Number	3 Sets
Manufacturer	Sichuan Instrument Works
Range	0~25, 0~50, 0~100 ppb

Hydrazine

Type	LA-1
Number	3 Sets
Manufacturer	Wuxi Insturment Works
Range	0~100 ppb

Size of sampling rack

Length	(mm)	~ 8000
Width	(mm)	~ 1000
Height	(mm)	~ 2000
Weight complete (kg) approx.		2500

(2) Recorder and indicator

	Recorder (Control room)	Indicator (Local)
(a) PH		
Type		NRE
Number	NO	2
Manufacturer		
Number of pen		6
Range		0~7, 7~14

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	Recorder (Control room)	Indicator (Local)
(b) Conductivity		
Type		NRE
Number	NO	4
Manufacturer		
Number of pen		6
Range		0~1, 0~10, 0~100
(c) Oxygen and hydrazine		
Type	ER100	
Number	2	
Manufacturer	Sichuan Instrument Factory	
Number of pen	4	
Range	0~100	
(3) Electric Power source		
Power (KW)	8	
Voltage	220	
Phase	1	

.5 INSTRUMENTATION

.1 BOILER CONTROL SYSTEM

(1) Type	YS-80
(2) Number	3 Sets
(3) Manufacturer	Xian Instrument Factory
(4) System cabinet	
Dimensions (mm) WxDxH	1100 x 900 x 2100
Anti-vibration rubber	Yes

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(5)	Transmitter and actuator type	Capacity and Pneumatic
(6)	Operating condition of digital control system	Temp. 0°C -50 °C Humidity 40% - 90%
(7)	Power source and consumption	DC 220 V 900 W AC 220 V 2000 W Air 3 Nm^3/minute
(8)	Control ability	
	Automatic control range	25 to 100%
	Control accuracy	
	Pressure (less than ± 2kg/cm^2g)	Yes
	Temperature (less than ± 5°C)	Yes
	Drum level (less than ± 75mm)	Yes
(9)	Mean time between failure more than 10000 hours	Yes
(10)	Trouble shooting equipment	
	Console	NO
	CRT	NO
	Hard copy	NO
	Manual stand by operating modules	NO
	Online, off line maintenance	NO

.5.2 BURNER CONTROL SYSTEM

(1)	Type	FSSS (Furnace Sefeguard Supervisory System)
(2)	Number	3 Sets
(3)	Manufacturer	Aching Relay Works
(4)	Signal range (From/to another system)	Contact/Contact

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(5)	System cabinet	
	Dimensions (mm) W x D x H	800 x 600 x 2200
	Anti-vibration rubber	Yes
(6)	Function	
	Boiler safety interlock system	Yes
	Burner management system	Yes
	Each burner control system	Yes
(7)	Flame detector	
	Type, manufacturer	Visible ZHJ-1 Aching Relay Works
	Ignition burner	"
	Main burner	"
(8)	Fuel trip valve type	Electrical
(9)	Operating condition of digital control system	Temp. 20 °C -40 °C
		Humidity % -95 %
(10)	Power source consumption	DC 220 V 500 W
		VA AC 220 V 3000 W
		Instrument Nm^3/min air 0.75
(11)	Mean time between failure more than 10000 hours	Yes
(12)	Trouble shooting equipment	
	Console	Yes
	CRT	No Use
	Hard copy	No Use
	Manual stand by operating modules	Yes
	Online, off line maintenance	Yes

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2.5.3 MISCELLANEOUS INSTRUMENTS

(1) Flame viewing TV system

(i) Camera with cooling equipment controller

Manufacturer	Diamond Co. or equivalent
Type and model	ST-7

(ii) CRT

Manufacturer	Diamond Co. or equivalent
Type and model	SNA-15/C/VR
Power consumption (VA)	

2.6 POWER CONSUMPTION

(1) Instrument air (Nm^3/minute)	1
(2) Electric power	
AC 220V (VA)	2000
DC 220V (W)	1000

2.7 PIPING FOR STEAM GENERATOR AND AUXILIARY EQUIPMENT

	Material	Size (mm)
(1) Auxiliary steam piping		
From secondary superheater inlet - HP auxiliary steam control valve	Carbon Steel	Ø76x8
HP auxiliary steam control valve - HP auxiliary steam header	Carbon Steel	Ø108x4
From cold reheat pipe - HP auxiliary steam heater	"	Ø159x4.5

(2) Main steam piping

Material		10CrMo910
Size	(mm)	D355.6
Design pressure	(Kg/cm^2g)	40
Design temperature	(^oC)	541
Thickness (Schedule)	(mm)	50
Calculation thickness	(mm)	48.97

(3) Reheater inlet steam piping

Material		St.45.8
Size	(mm)	D558.8
Design pressure	(Kg/cm^2g)	27.7
Design temperature	(^oC)	320
Thickness (Schedule)	(mm)	14.2
Calculation thickness	(mm)	8.6

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(4) Reheater outlet steam piping

Materail		10CrMo910
Size	(mm)	D508
Design pressure	(Kg/cm^2g)	27.6
Design temperature	(^oC)	541
Thickness (Schedule)	(mm)	16
Calculation thickness	(mm)	15.73

(5) Turbine bypass piping

(a) Main steam to pressure control valve

Material		10CrMo910
Size	(mm)	D219.1
Thickness	(mm)	30

(b) Pressure control valve to attemperator

Material		10CrMo910 or 12CrlMoV
Size	(mm)	According to valve
Thickness	(mm)	According to size

(c) Attemperator to reheater inlet valve

Material		St.45.8
Size	(mm)	D457.2
Thickness	(mm)	11

(6) Feed water piping

Material		St.45.8
Size	(mm)	D355.6
Design pressure	(Kg/cm^2g)	222
Design temperature	(^oC)	251
Thickness (Schedule)	(mm)	36
Calculation thickness	(mm)	35.5

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(7) Sampling piping		
Material		Stainless Steel
Size	(mm)	16x3
(8) Chemical feed piping		
(a) Chemical feed pipe		
For drum		
Material		Stainless Steel
Size	(mm)	Ø20
For deaerator		
Material		Stainless Steel
Size	(mm)	Ø20
For condensate pump outlet		
Material		Stainless Steel
Size	(mm)	Ø20
(b) Diluted water pipe		
Material		Carbon Steel
Size	(mm)	Ø50
(9) Motor operating valves		
(a) H.P. auxiliary steam line		
Type of valve		Motor driven
Number		2
Manufacturer		Harbin Boiler Works
Material		15CrMo or Carbon Steel
Pressure rating	(Kg/cm^2g)	156 ± 1.0

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(b) Soot blowing steam line

Type of valve		Motor driven
Number		1
Manufacturer		Harbin Boiler Wor
Material		Carbon Steel
Pressure rating	(Kg/cm^2g)	40

(c) Burner atomizing steam line

Type of valve		Motor driven
Number		1
Manufacturer		Harbin Boiler Works
Material		Carbon steel
Pressure rating	(Kg/cm^2g)	25

(10) Automatic control valves on H.P. turbine bypass line

		On-off valve	Pressure control valve
Type		ARS112	ARS112
Number		1	1
Manufacturer		Sulzer	Sulzer
Size	(mm)	Offered by Manufacturer	
Maximum flow	(Kg/Hour)	$200x10^3$	$200x10^3$
Pressure control	(Kg/cm^2g)	131	131
Material			
Body		10CrMo910	10CrMo910
Disc		10CrMo910	10CrMo910
Seat		S-Co65Cr25W;	S-Co65Cr25W;
Noise (As a complete set)	(dB(A))		
Weight	(Kg)	1020x3	1020x3

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The Contractor shall guarantee the items marked " * ".

3. STEAM TURBINES

3.1 TURBINE

(1)	Type		Reheat condensing tandem compound double flow
(2)	Number		3 Sets
(3)	Manufacturer		Harbin Turbine Works
(4)	Design		Harbin Turbine Works
(5)	Operating speed	(rpm)	3000
	Over speed trip	(rpm)	3300-3360
(6)	Number of extraction		8
(7)	Number of casings		3
(8)	Casing temperatures		
	Cold Start	(^{o}C)	< 150
	Warm Start	(^{o}C)	< 300
	Hot Start	(^{o}C)	400-500
(9)	No load steam consumption	(Tons/Hour)	36
(10)	Starting time to MCR	(Hours)	6
(11)	Warm Start (after 24 hours)	(Hours)	2.5
(12)	Hot Start (after 4 hours)	(Hours)	1.5
(13)	Cold Start	(Hours)	6
(14)	Critical Speeds (uncoupled)		
	(i) First Order		
	H.P. Turbine rotor	(r.p.m.)	1853
	I.P Turbine rotor	(r.p.m.)	2013
	L.P Turbine rotor	(r.p.m.)	1572
	(ii) Second Order		
	H.P Turbine rotor	(r.p.m)	> 4500
	I.P Turbine rotor	(r.p.m)	> 4500
	L.P Turbine rotor	(r.p.m)	> 4500

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	Generator rotor	1st harmonic	
		2nd harmonic	
	Coupled Critical	Speeds (r.p.m)	1869(HP), 2078(IP), 1659(LP), 1263 3559(GEN)
(15)	Fly wheel effect	(Kg - m - s^2)	770.14(Turbine), 586(GEN)
(16)	Performance data		

	Minimum load	50% of rated load	75% of rated load	ECR	MCR	Maximum Load
Output (MW)	50	100	150	200	204.544	215.93
Turbine generator heat rate (kcal/KWH)	2699.5	2260.5	2126.4	2050.0	2136.2	2029.8
Steam pressure Main steam (kg/cm^2g)	131	131	131	131	131	131
Steam pressure RH steam (kg/cm^2g)	7.7	10.82	16.01	21.25	23.27	23.31
Steam temperature Main steam (^oC)	480	538	538	538	538	538
Steam temperature RH steam (^oC)	480	538	538	538	538	538
Steam flow Main steam (Tons/Hour)	198.86	321.19	466.76	620	680	680
Steam flow RH steam (Tons/Hour)	172.06	279.84	403.59	531.22	579.34	580.18

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Exhaust steam pressure (mm Hg abs)	82.55	82.55	82.55	82.55	132	82.55
Exhaust steam flow (Tons/Hour)	150.08	236.42	331.36	425.08	460.92	455.19
Make up water (%)	0	0	0	0	1	0
Generator power factor	0.85	0.85	0.85	0.85	0.85	0.85
Feed water temperature at HP final Heater outlet (°C)	190.6	211.0	229.9	245.4	250.7	250.8

7) Extraction steam conditions at turbine connections (at ECR)

Extraction Number	Flow (Tons/Hour)	Pressure (kg/cm^2 abs)	Temperature (°C)
No. 1	17.04	0.465	102.2
No. 2	20.40	1.51	206.7
No. 3	13.71	2.48	~~254.7~~
No. 4	16.92	4.21	~~316.7~~
No. 5	6.78	6.88	~~378.5~~
No. 6	21.99	12.40	459.8
No. 7	40.92	25.00	310.6
No. 8	29.06	38.70	366.0

CamScanner

(18)	Dimension		
	Rotor length (each rotor)	(mm)	4377(HP)5518(IP)6660(LP)
	Width (each turbine)	(mm)	2410(HP)4270(IP)6700(LP)
	Turbine bearing span (each turbine)	(mm)	4823(HP)4027(IP)4830(LP)
	Height of top above operating floor	(mm)	5376
(19)	Weight (approx.)		
	Rotor (each rotor)	(Tons)	7(HP) 13.3(IP) 30.3(LP)
	Assembled weight (each turbine)	(Tons)	41(HP) 34.7(IP)108(LP)
(20)	Max. noise level of steam turbine generator at 1m distance	(dB(A))	90
(21)	Permissible percentage of load gradient	(%)	3
3.2	SPEED LOAD CONTROL AND PROTECTION SYSTEM		
(1)	Governor system type		Electro-Hydraulic Control & Mechanic-Hydraulic Control
(2)	Control Valve		
	Type		Single Seat
	Number		4 x 3
	Type of drive		Servomotor with Rack Cam-type Mechanism
(3)	Main stop valve		
	Number		2 x 3
	Size	(mm)	Ø225
	Type		Single Seat Motorized
(4)	H.P turbine exhaust valve		
	Number		2 x 3
	Size	(mm)	Ø500
	Type		flat
	Type of drive		Hydraulic

CamScanner

(5) Emergency governor type	Fly ball governor
(6) Emergency trip device	
Thrust failure protection device	Yes
Vaccum trip device	Yes
Low bearing oil pressure trip device	Yes
(7) Initial pressure regulator	Yes
(8) Turbine exhaust spray water flow (Tons/Hour)	Approx. 6-10

3.3 HYDRAULIC AND LUBRICATING OIL SYSTEM

(1) Brand of oil used	22 Trubine oil
(2) Oil capacity of system (m^3)	25.7
(3) Bearing oil circulation (m^3/Hour)	162
(4) Bearing oil pressure (kg/m^2g)	1
(5) Control oil pressure (kg/cm^2g)	20
(6) Main oil tank	
Type	Welded Construction
Number	3 Sets
Manufacturer	Harbin Turbine Works
Capacity (m^3)	23
Oil losses (m^3/Hour)	0.0001
Weight (Kg)	7274
(7) Main oil pump	
Type	Rotor driven
Number	3 Sets
Manufacturer	Harbin Turbine Works
Capacity (m^3/Hour)	168
Discharge & suction pressure (Kg/cm^2g)	20/1

CamScanner

		Offered
(8) Oil Coolers		
Type		Straight
Number		9 Sets
Manufacturer		Harbin Turbine Works
Cooling surface	(m^2)	160 (for each)
Cooling water flow	(Tons/Hour)	180 (for each)
Cooling water inlet temperature	(^oC)	42
Cooling water outlet temperature	(^oC)	45
Oil flow	(m^3/Hour)	99(for each)
Oil outlet temperature	(^oC)	48
Material		
Tube		Tinbrass
Shell		Carbon Steel
Tube Plates		Carbon Steel
Water chamber		Carbon Steel
Dimensions	(mm)	4033x1509x1475
Weight (each)	(kg)	5582
(9) Auxiliary Oil Pump		
Type		A.C driven
Number		3 Sets
Manufacturer		Harbin Turbine Works
Capacity	(m^3/Hour)	180
Discharge Pressure	(Kg/cm^2g)	20
Speed	(rpm)	2960
Motor Power	(KW)	200
Weight (each)	(Kg)	2626
(10) Turning gear oil pump		
Type		A.C driven
Number		3 Sets
Manufacturer		Harbin Turbine Works

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Capacity	(m^3/Hour)	162
Discharge pressure	(Kg/cm^2g)	2.8
Speed	(rpm)	2950
Motor Power	(KW)	30
Weight complete (each)	(Kg)	986

(11) Emergency oil pump

Type		D.C Motor driven
Number		3 Sets
Manufacturer		Harbin Turbine Works
Capacity	(m^3/Hour)	127.8
Discharge Pressure	(Kg/cm^2g)	1.8
Speed	(rpm)	2730
Motor Power	(KW)	13
Weight complete (each)	(Kg)	650

(12) Turbine Oil Storage tank

Type		Box
Number		3 Sets
Manufacturer		Field make
Capacity	(m^3)	Approx. 60
Material		Carbon Steel
	(kg)	

(13) Oil transfer pump

Number		3 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(m^3/Hour)	29
Discharge Pressure	(Kg/cm^2g)	3.6

CamScanner

Speed	(rpm)	1450
Motor Power	(KW)	7.5
Weight	(Kg)	Approx.24

3.4 TURNING EQUIPMENT

(1) Type		Worm gear long pitch thread sleeve
(2) Method of operation		Automatic or Manual
(3) Turning speed (rpm)		~ 3

3.5 GLAND STEAM SEAL SYSTEM

(1) Gland steam seal regulator

Type		Single loop controller
Number		3 Sets
Size		2.5x87x480
Regulation Pressure	(Kg/cm^2g)	0.5

(2) Gland steam exhaust blower

Type		Centrifugal
Number		6 Sets
Manufacturer		Shanxi Blower Works
Capacity	(m^3/Hour)	730
Exhaust Pressure	(mm Hg)	58.84
Speed	(rpm)	2920
Motor Power	(KW)	10
Weight (each)	(Kg)	445

(3) Gland steam condenser

Type		Horizontal surface
Number		3 Sets
Manufacturer		Harbin Turbine Works
Cooling Surface	(m^3)	90
Tube size and thickness	(mm)	Ø19 x 1

Dimensions		
Total length	(mm)	3317
Shell diameter	(mm)	ø760
Design Pressure		
Tube side	(Kg/cm^2g)	22
Shell side	(Kg/cm^2g)	6
Design Temperature		
Tube side	(^oC)	39.5
Shell side	(^oC)	160
Weight (each)	(Kg)	4859

3.6 L.P TURBINE BYPASS SYSTEM

(1) By pass valve (LP)

Type		NB64-500
Number		3
Manufacturer		Sulzer
Size		OD508, 1D468
Capacity	(Kg/Hour)	233480
Material		10CrMo910
Pressure control		Yes
Start up		Use
Weight each	(Kg)	1656

4. AUXILIARY EQUIPMENT

4.1 SURFACE CONDENSER

(1) Condenser

Type	Two passes horizontal surface type
Number	3 Sets
Manufacturer	Harbin Turbine Works
Water velocity in tube (m/sec)	1.9

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Performance data

Design heat duty (at MCR) (Kcal/Hour)		250.68×10^6
Design absolute pressure (mm Hg abs.)		82.55
Steam flow at MCR (Tons/Hour)		460
Cooling water flow (m^3/Hour)		27500
Cooling water inlet temp. (^oC)		35.6
Cooling water out let temp.(^oC)		44.72
Cooling surface (m^2)		13490
Heat transfer coefficient ($Kcal/m^2-^oc-H$)		2956.72
Tubes		
Effective tube length	(mm)	9340
Overall tube length	(mm)	9430
Size and thickness	(mm)	Ø25x1.0
Number of tubes	(mm)	18390
Diameter of tubes	(mm)	Ø25
Material (Main condensing zone)		Tinbrass
Dimensions		
Length of Condenser	(m)	12420
Width of Condenser	(m)	8914
Height of Condenser	(m)	9080
Weight		
Empty (Tons)	Approx.	355772
Operating (Tons)	Approx.	512907
Hot well capacity (m^3)		21.12
Design Pressure.		
Water box and tube	(Kg/cm^2g)	2.5
Sheel	(Kg/cm^2g)	1

CamScanner

Material

Shell		Carbon Steel
Cooling air zone		Copper Nickel Alloy
Water box		Carbon Steel
Hot well		Carbon Steel
Tube sheets		Carbon Steel

(2) Expansion joints for cooling water piping inlet and outlet

Type		Bellows
Number		16
Size	(mm)	External Diameter of Bellows 1858
Material		Carbon Steel

(3) Cathodic protection equipment

Type		Anti-corrosion
Number		3 Sets
Manufacturer		Shanghai Electronic Element Factory
Electrode		
Material		Pt-Electroplated Ti
Number		70
Service life	(years)	

Panel

Type		Self standing
Dimension	(mm)	1100x850x450
Weight	(Kg) approx.	150

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4.2 COOLING TOWER

(1) General

Type		Mechanical Induced draf cross flow cell type
Number		3 Sets
Manufacturer		Site Cast
Water entering temperature	(^{o}C)	43.44
Water leaving temperature	(^{o}C)	35.6
Design wet bulb temperature	(^{o}C)	28.6
Circulating water flow	(m^3/Hour)	32000 every set
Tower pump head	(m)	20
Total power consumption of fans	(KW)	1920 every set
Drift loss (% of circulating water flow)		0.08
Evaporation loss (% of circulating water flow)		1.6

(2) Cooling tower Structure

Type		Reinforced Concrete Structure
Number of cells		12 Cell every set
Fans per cell		1
Total number of fans		12 every set
Manufacturer		Site Cast
Cell dimention		
Length	(mm)	17000
Width	(mm)	12000
Overall tower dimension		
Length	(mm)	148000

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4.2 COOLING TOWER

(1) General

Type		Mechanical Induced draf cross flow cell type
Number		3 Sets
Manufacturer		Site Cast
Water entering temperature	(^{o}C)	43.44
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Design wet bulb temperature	(^{o}C)	28.6
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Tower pump head	(m)	20
Total power consumption of fans	(KW)	1920 every set
Drift loss (% of circulating water flow)		0.08
Evaporation loss (% of circulating water flow)		1.6

(2) Cooling tower Structure

Type		Reinforced Concrete Structure
Number of cells		12 Cell every set
Fans per cell		1
Total number of fans		12 every set
Manufacturer		Site Cast
Cell dimention		
Length	(mm)	17000
Width	(mm)	12000
Overall tower dimension		
Length	(mm)	148000

CamScanner

Width	(mm)	17000
Height	(mm)	14300
Height (basin curb to fan deck)	(mm)	8500
Height of fan stack	(mm)	5000
Cooling water basin dimension		
Length	(mm)	148000
Width	(mm)	17000
Height	(mm)	1500
Hot water inlets (water leaving)		
Number		2 every cell
Diameter	(mm)	500
Description		Round
Height from basin	(mm)	9950
Access to top of tower		62 Step Steel Escape Stair

(3) Material

Cooling tower frame work	Reinforced Concrete
Wall casing	Reinforced Concrete
Cell partition wall	Reinforced Concrete
Fill support	Carbon Steel and PVC
Fan deck	Reinforced Concrete and Steel Shape
Fan stack	Fibre Glass Reinforced Plastic
Water distribution	Reinforced Concrete Basin and Nozzle of Plastic
Cooling water basin	Reinforced Concrete
Screen	Carbon Steel
Stop log	Carbon Steel
Mechanical equipment support	Reinforced Concrete and Steel Shape

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(4) Cooling fan

Type		Axialflow Induced Fan
Number		12 every set
Manufacturer		Shanghai Second Chemical Machinery Works
Diameter	(mm)	8000
Number of blades		8
Fan speed	(rpm	155
Power consumption per fan	(KW)	145
Blade material		Fibre Glass Reinforced Plastic
Capacity per fan	(m^3/minute)	41333
Fan static efficiency (%)		52.6

(5) Gear speed reducer

Type	Spiral Bevel Gear Reducer
Number	12 every set
Manufacturer	Shanghai Second Chemical Machinery Works
Reduction ratio	9.5:1
Number of reductions	Grade two

(6) Fan motor

Type		Full-sealed squirrel-cage type motor
Number		12 every set
Manufacturer		Shanghai Second Chemical Machinery Works
Full load speed	(rpm)	1470
Phase		3
Frequency	(Hz)	50
Voltage	(v)	380

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(7) Screen

Type		Plane Screen
Number		12
Manufacturer		Chang Chun Electric Equipment Works
Dimension Lx WxT	(mm)	2300 x 6000 x 100
Weight per screen	(Kg)	664

(8) Stop logs

Type		Bulkhead Gate
Number		6
Manufacturer		Chang Chun Electric Equipment Works
Dimension LXWXT	(mm)	2300 x 3500 x 170
Weight per stop log	(Kg)	1887

(9) Sludge pump

Type		Submersible
Number		3
Manufacturer		Shi Jia Zhuang Pump Plant
Capacity	(m^3/Hour)	39
Discharge pressure	(Kg/cm^2g)	1.07
Speed	(rpm)	1445
Shaft horse power	(KW)	3.34
Shaft length	(mm)	410
Connection size	(mm)	700

Material

Casing		Cast Steel
Shaft		Carbon Steel
Impeller		"
Weight complete	(Kg)	200

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(1) Steam jet air ejector with condenser

Type		Three element
Number		6 Sets
Manufacturer		Harbin Turbine Works
Air suction capacity	(kg/Hour)	65
Suction vacuum	(mmHg abs)	47.8
Operating steam pressure	(kg/cm^2g)	5
Steam teperature	(^oC)	158
Steam consumption	(kg/hour)	1082
Condenser		
Cooling surface area	(m^2)	79
Tube size and thickness	(mm)	U-Ø19x1
Tube number		349
Tube length	(mm)	U-2875～3624
Heat transfer coefficient	($kcal/H-m^2-^oC$)	250
Design cooling water capacity	(kg/Hour)	442720
Tube side design pressure	(kg/cm^2g)	16
Shell side design pressure	(kg/cm^2g)	5
Dimension		
Overall length	(mm)	2066
Shell diameter	(mm)	1080 2751
Material		
Tube		Copper nickel alloy
Shell		Carbon Steel
Water box		Carbon Steel
Tube sheet		Carbon Steel
Steam nozzle		Stainless Steel
Weight (assembly each)	(kg)	4514

CamScanner

(2) Starting Air ejector

Type		Single element
Number		3 Sets
Manufacturer		Harbin Turbine Works
Air suction capacity	(kg/Hour)	492
Suction vacuum	(mmHg abs.)	254
Steam pressure	(kg/cm^2g)	5
Steam consumption	(kg/Hour)	1560
Weight (each)(kg) approx.		154

4.4 CIRCULATING WATER PUMP

(1) Circulating water pump

Type		Vertical
Number		9 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(m^3/Hour)	16500 (Approx.)
Total head	(m)	25 (Approx.)
Shut off head	(m)	40

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Pump efficiency	(%)	87
Shaft horse Power	(KW)	1051
NPSH required	(m)	11
Speed	(rpm)	495
Material		
Impeller		ZG1Cr13 (SAE 51410)
Suction bell mouth and discharge ball		HT25-47 (SAE 1025)
Shaft		Carbon Steel (SAE 1010)
Bearing		Wear-resisting Rubber
Weight		
Pump (each	(kg)	26800
Motor (each)	(kg)	16000
Assembly (each)	(kg)	42800
(2) Discharge valve		
Type		Butterfly
Number		9 Sets
Manufacturer		Tieling Valve Works
Size	(mm)	1400
Material		Cast Iron
Weight (each)	(kg)	3160
4.5 CONDENSATE PUMP		
Type		Vertical Centrifugal multi stage, pitcan 7LDTN-6
Number		9 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(Tons/Hour)	277.3
Total head	(kg/cm^2g)	17.2
Shut off head	(kg/cm^2g)	19.3

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Pump efficiency	(%)	71
Motor Power	(KW)	250
Speed	(rpm)	1480
Material		
Impeller		Stainless Steel
Casing		Cast Steel
Shaft		Stainless Stee 40Cr
Weight		
Pump (each)	(kg)	7500
Motor (each)	(kg)	3500
Assembly (each)	(kg)	11000

CamScanner

4.6 FEEDWATER HEATERS

(1) Low pressure feedwater heaters

	No. 1 Heater	No. 2 Heater	No. 3 Heater	No. 4 Heater
Type	Close U tube	Close U tube	Close U tube	Close U tube
Number	3 Sets	3 Sets	3 Sets	3 Sets
Manufacturer	Harbin Turbine Works	Harbin Turbine Works	Harbin Turbine Works	Harbin Turbine Works
Tube surface area				
Condensing zone (m^2)	350	350	350	350
Drain cooling zone (m^2)	0	0	0	0
Total (m^2)	350	350	350	350
Design water flow (kg/Hour)	493900	493900	551400	551400
Tube				
Size and thickness (mm)	Ø19x1	Ø19x1	Ø19x1	Ø19x1
Number of tubes	756	756	756	748
Number of tube pass	4	4	4	4
Water velocity in tube (m/sec)	1.64	1.68	1.91	1.94

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		No. 1 Heater	No. 2 Heater	No. 3 Heater	No. 4 Heater
Design Pressure					
Tube side	(kg/cm^2g)	16	16	16	16
Shell side	(kg/cm^2g)	0.49ata	1.58ata	2.62ata	4.32ata
Design temperature					
Tube side	(^oC)	75.3	107.8	125.2	144.5
Shell side	(^oC)	102	209	256	350
Design terminal temperature difference	(^oC)	5	5	5	5
Material					
Channel and channel cover		Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Shell		Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Tube		Tin Brass	Tin Brass	Copper Nickel Alloy	Copper Nickel Alloy
Tube sheet		Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Dimension					
Overall length	(mm)	6736	6736	6736	6736
Shell diameter	(mm)	Ø1330	Ø1330	Ø1330	Ø1330
Shell thickness	(mm)	15	15	15	15

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		NO. 1 Heater	No. 2 Heater	No. 3 Heater	No. 4 Heater
Weight					
Empty	(kg)	10280	10221	10333	10646
Operating	(kg)	13354	13295	13407	13720

(2) High pressure feedwater heaters

		NO. 6 Heater	No. 7 Heater	No. 8 Heater
Type		Close U tube	Close U tube	Close U tube
Number		3 Sets	3 Sets	3 Sets
Manufacturer		Harbin Boiler Works	Harbin Boiler Works	Harbin Boiler Works
Tube surface area				
Condensing zone	(m^2)	503	503	503
Desuperheater zone	(m^2)	47	47	47
Drain cooling zone	(m^2)	0	0	0
Total	(m^2)	550	550	550
Design feedwater flow	(kg/Hour)	680000	680000	680000
Tube				
Size and thickness	(mm)	Ø16x2.5	Ø16x2.5	Ø16x2.5
Number of tubes		1049	1049	1049
Number of tube pass		2	2	2
Water velocity in tube (m/sec)		1.88	1.946	2.017

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		NO. 6 Heater	No. 7 Heater	No. 8 Heater
Design Pressure				
Tube side	(kg/cm^2g)	210	210	210
Shell side	(kg/cm^2g)	12	26	41
Design temperature				
Tube side	(^oC)	250	250	250
Shell side	(^oC)	350	350	375
Design terminal temperature difference	(^oC)	2	3.8	2
Material				
Channel and channel cover		BHW35	BHW35	BHW35
Shell		16MnR	16MnR	16MnR
Tube		15Mo3	15Mo3	15Mo3
Tube sheet		20MnMo	20MnMo	20MnMo
Dimension				
Overall length	(mm)	8364	8364	8364
Shell diameter	(mm)	1360	1360	1360
Shell thickness	(mm)	24	24	30
Weight				
Empty	(kg)	26527	26487	27789
Operating	(kg)	29570	29560	30450
Flooded	(kg)	33000	33000	33000

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4.7 DEAERATOR

(1) Deaerating heater

Type		GWC-680
Number		3 Sets
Manufacturer		Harbin Boiler Works
Capacity	(Tons/Hour)	680
Oxygen content	(cc/liter)	* 0.005
Dimension		
Overall length	(mm)	6645
Diameter	(mm)	2832
Shell thickness	(mm)	16
Design Pressure	(kg/cm^2g)	11
Design temperature	(^oC)	250
Material		
Shell		16MnR
Tray		1Cr18Ni9Ti
Weight		
Empty (each)	(kg)	17667
Operating (each)	(kg)	19000
Flooded (each)	(kg)	51000
Relief valve		
Type		A48Y-16C
Number		3
Manufacturer		Shanghai Valve Works

(2) Storage tank

Capacity at operating level	(m^3)	140
Dimension		
Overall length	(mm)	19000

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		Offered
Diameter	(mm)	3440
Shell thickness	(mm)	20
Shell material		16MnR
Number		3 Sets
Weight		
Empty (each)	(kg)	41482
Operating (each)	(kg)	158000
Flooded (each)	(kg)	210000

4.8 BOILER FEED WATER PUMP

(1) Boiler feed water pump		
Type		Horizontal Multistage 40 CHTA/6
Number		9 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(Tons/Hour)	408
Total head	(kg/cm^2g)	167
Discharge head	(kg/cm^2g)	177
Shut off pressure	(kg/cm^2g)	222
Feed water temperature	(^oC)	165
Minimum flow	(Tons/Hour)	96.3
Pump efficiency	(%)	80(cold condition)
NPSH required	(m)	28
Noise (as complete set)	dB(A)at 1m distance	90 (with jacket)
Number of stages		6
Type of bearing		4 oil groves
Type of coupling		Speed increasing gear with fluid coupling
Type of seal		R16K Voith Mechanical

CamScanner

	Motor		
	Type		Y800-1-4
	Rating	(KW)	3200
	Voltage	(V)	6600
	Speed	(rpm)	1492
	Material		
	Outer casing		CK22N (DIN17240)
	Inner casing		CK22N (DIN17240)
	Shaft		IR3Mo
	Impeller		S14S280
	Common bed		Carbon Steel
	Sleeve		Alloy
	Weight		
	Pump	(kg)	4400
	Motor	(kg)	15400
	Booster pump	(kg)	880
	Assembly	(kg)	24000
(2)	Booster pump		
	Type		YNKn300/200
	Number		9 Sets
	Manufacturer		Shenyang Pump Manufactory
	Capacity	(Tons/Hour)	408
	NPSH required	(m)	4
	Discharge pump pressure	(kg/cm^2g)	Total Head 4.2
	Water temperature	(^oC)	165
	Shaft horse power	(KW)	Direct driven by BFWP Motor
	Efficiency	(%)	81

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	Material		
	Casing		1.4008.1-45 (DIN17007)
	Impeller		S14S280
	Shaft		ST60
(3)	Lubricating oil system		
	(a) Auxiliary oil pump		
	Type		Gear Type
	Number		9 Sets
	Capacity	(m^3/hour)	5.4
	Discharge pressure	(kg/cm^2g)	3
	(b) Oil cooler		
	Type		Horizontal surface cooling type
	Number		9 Sets
	Cooling water flow	(m^3/Hour)	60
	(c) Oil reservoir		
	Type		Steel welded
	Number		9 Sets
	Capacity	(m^3)	0.8
(4)	Discharge valve		
	Type		Motor driven
	Number		9 Sets
	Size	(mm)	D225
	Rating		250kg/cm^2g
	Material		Carbon Steel
(5)	Orifice		Inserted in recirculation valve
	Type		
	Number		9 Sets

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4.9 PRIMARY COOLING WATER BOOSTER PUMPS

Type		450 Hku_3
Number		6 Sets
Manufacturer		
Capacity	(m^3/Hour)	1740

4.10 MAKE UP WATER TANK

Type		Vertical Cylindric
Number		3 Sets
Manufacturer		Field make
Capacity	(m^3)	* 100
Inside diameter	(mm)	5268
Shell height	(mm)	5575

CamScanner

Thickness		
Wall plate	(mm)	6
Bottom plate	(mm)	6
Roof plate	(mm)	6
Material		
Wall plate		Carbon Steel
Bottom plate		Carbon Steel
Roof Plate		Carbon Steel
Vertical number of course		3
Weight	(kg)	7300 (Approx.)

4.11 PHOSPHATE INJECTION EQUIPMENT FOR CIRCULATING WATER

Type		Horizontal
Number		6 Sets
Manufacturer		Shung King Pump Works
Capacity	(Liters/minute)	6.67
Discharge Pressure	(kg/cm^2g)	6
Material		
Cylinder casing		Stainless Steel
Plunger		Stainless Steel
Weight	(kg)	~ 190

4.12 COOLING TOWER PUMP HOUSE OVERHEAD CRANE

Type	E.O.T.Crane with hook
Number	3 Sets
Manufacturer	DaLian Crane Works

CamScanner

		Offered
Capacity		
Hoist	(Tons)	* 20
Span (Centre to centre rails)	(mm)	13500
Runway rail		
Type		I-Steel
Length (total)	(mm)	42000
Full load speed		
Hoist	(m/minute)	1.2
Trolley travel	(m/minute)	10.0
Bridge travel	(m/minute)	20.0
Vertical control level	(mm)	* 3
Maximum lift of hook		
Hoist	(mm)	12000
Hoist Motor		
Type		Wound rotor type
Voltage	(V)	380
Power	(KW)	16
Speed	(rpm)	750
Trolley travel motor		
Type		Wound rotor typ
Voltage	(V)	380
Power	(KW)	3.5
Speed	(rpm)	1000
Bridge travel motor		
Type		Wound rotor typ
Voltage	(V)	380
Power	(KW)	7.5
Speed	(rpm)	1000

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Material		
Bridge		Carbon Steel
Trolley		Carbon Steel
Drum		Cast Steel
Hoisting rope		Carbon Steel
Trolley wire		Copper
Weight		
Bridge	(kg)	11190
Trolley	(kg)	3510
Assembly	(kg)	14700
Brake		
Hoist		Magnetic brake
Trolley travel		Magnetic brake
Bridge travel		Magnetic brake

4.13 PIPING FOR STEAM TRUBINE AND AUXILIARY EQUIPMENT

	Material	Size (mm)
(1) Steam trubine		
Lubricating oil piping	Carbon Steel	Ø377x7
Gland steam seal piping	Carbon Steel	Ø219x6
Turbine drain piping	Alloy	Ø28x2.5
(2) Steam turbine auxiliary equipment		
Make up water piping system		
Supply	Carbon Steel with inside rubber lining	Ø108x4

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	Material	Size (mm)
Condensate piping system		
Condensate pump suction	Carbon Steel	Ø 478x7
Condensate pump-Deaerator	Carbon Steel	Ø 325x7
Boiler feed water piping system		
Boiler feed water pump suction	Carbon Steel	Ø 273x6
Boiler feed water pump-Feed water control valve	Carbon Steel	BFWP-FW Header Ø273x28
Feed water control valve - Final HP heater outlet	Carbon Steel	FW Header-HP Heater Outlet Ø355.6x36
Boiler feed water minimum flow	Carbon Steel	Ø133x4
Circulating water piping system		
Circulating water pump discharge	Carbon Steel	Ø1630x9
Circulating water pump discharge common header	Carbon Steel	Ø2240x9
Underground installation	Carbon Steel	Ø2240x9
Condenser inlet and outlet	Carbon Steel	Ø1630x9
Condenser air extraction piping system		
Condenser - air ejector	Carbon Steel	Ø273x7

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	Material	Size (mm)
Cooling tower piping system		
Continuous blow piping	Carbon Steel	Ø630x6
Bottom blow piping	Carbon Steel	Ø630x6
Bearing cooling water piping system		
Main (supply, return)	Carbon Steel	Ø529x7
Stand pipe	Carbon Steel	Ø478x7
Circulating water pump motor cooling	Carbon Steel	
Primary cooling water piping system		
Bearing cooling water heat exchanger supply	Carbon Steel	Ø630x7
Return	Carbon Steel	Ø630x7
Extraction steam piping system		
No. 1 extraction	Carbon Steel	Ø159x4.5
No. 2 extraction	Carbon Steel	Ø219x6
No. 3 extraction	Alloy Steel	Ø219x7
No. 4 extraction	Carbon Steel	Ø219x6
No. 5 extraction	Carbon Steel	Ø325x6
No. 6 extraction	Carbon Steel	Ø325x6
No. 7 extraction	Carbon Steel	Ø529x7
No. 8 extraction	Carbon Steel	Ø820x8
High pressure auxiliary steam piping system (from high pressure auxiliary steam header)		
Steam seal supply	Carbon Steel	Ø219x6
Deaerator supply	Carbon Steel	Ø219x6

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	Material	Size (mm)
Feedwater heater drain and vent piping system		
No. 1 LP heater drain	Carbon Steel	Ø108x4
No. 2 LP heater drain	Carbon Steel	Ø108x4
No. 3 LP heater drain	Carbon Steel	Ø108x4
No. 4 LP heater drain	Carbon Steel	Ø108x4
No. 6 HP heater drain	Carbon Steel	Ø159x4.5
No. 7 HP heater drain	Carbon Steel	Ø159x4.5
No. 8 HP heater drain	Carbon Steel	Ø219x6/Ø219x9
HP heater vent	Carbon Steel	Ø57x3
LP heater vent	Carbon Steel	Ø57x3
Service air piping system	Carbon Steel	Ø73x3
Instrument air piping system	Carbon Steel	Ø57x3
N_2 gas injection piping system	Carbon Steel	Ø38x2.5
Seal water piping system	Carbon Steel	Ø57x3
Condenser tube cleaning water piping system	Carbon Steel	Ø108x4
Condenser shell cleaning water piping system	Carbon Steel	Ø57x3
Make up water piping system	Carbon steel with inside rubber lining	Ø159x4.5
Other miscellaneous piping not covered above	10CrMo910	Ø133x5
(3) Temporary piping		
For turbine lubricating oil flushing	Carbon Steel	Ø57x3

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	Material	Size (mm)
For hydrostatic test	Carbon Steel	Decde in field
For water flushing	Carbon Steel	Decde in field
For trial operation of auxiliary equipment	Carbon Steel	Decde in field
(4) Total weight of piping for steam trubine and auxiliary equipment (Tons) approx.	Carbon Steel and Alloy	2445(for 3 units

4.14 INSTRUMENTATION

4.14.1 GOVERNOR CONTROL SYSTEM

(1) Type	Analog
(2) Number	3 Sets
(3) Manufacturer	Xian Instrument Works
(4) Signal range	0-10V DC (Inner) 0-10mA or 4-20mA(Outer)
(5) System cabinet	
Dimensions (mm) W x D x H	600 X 650 X 2000
Anti-vibration Rubber	Yes
(6) Transmitter and actuator type	Capacity and Pneumatic
(7) Turbine trip circuit power source	DC 220V
(8) Operating conditions of control system	Temp. 0 ^{o}C- $^{+50}_{8}$C Humidity 30% - 85%
(9) Power source and consumption	DC 24 V 350 W VA AC 220 V 400 W Air Nl/min Oil kg/cm^{2}g
(10) Mean time between failures (Hours)	10^4

4.1.4.2 TURBINE SUPERVISORY INSTRUMENTS

(1)	Type	
(2)	Number	3 Sets
(3)	Manufacturer	Harbin Turbine Works
(4)	Items	
	Eccentricity	Yes
	Control valve position	Yes
	Speed	Yes
	Vibration (on shaft)	on pedestal
	Expansion	Yes
	Differential expansion	Yes
	Bearing temperature	Yes
	Shell metal temperature	Yes
(5)	Vibration recorder	
	Manufacturer	Sichuan Instrument Factory
	Type and number	ER100 and 1
(6)	Turbine/generator bearing temperature recorder	
	Manufacturer	Sichuan Instrument Factory
	Type and Number	ER 180 and 1
(7)	Turbine casing metal temperature recorder	
	Manufacturer	Sichuan Instrument Factory
	Type and Number	ER 180 and 1
(8)	Turbine eccentricity and expansion	
	Manufacturer	Sichuan Instrument Factory
	Type and Number	ER 100 and 1

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4.14.3 SPECIAL INSTRUMENTS

Make up water flow meter

Type		1151DP
Number		3 Sets
Manufacturer		Xi An Instrument Factory
Flow range		0-24T/H
Accuracy	(%)	±1

4.1 5 POWER CONSUMPTION

(1)	Instrument air	(Nm^3/min)	2
(2)	Electric Power		
	AC 220V	(KW)	4
	DC 220V	(KW)	2

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COMMON AUXILIARY EQUIPMENT

1. HOUSE BOILER

(1)	Type		SZY20-13
(2)	Number		1 Set
(3)	Manufacturer		Harbin Boiler Works
(4)	Design Pressure	(kg/cm^2g)	13
(5)	Design temperature	(^oC)	194
(6)	Capacity	(Kg/Hour)	$20x10^3$
(7)	Efficiency at rated load	(%)	81.63
(8)	Heat surface area	(m^2)	506.8
(9)	Gas temperature at out let	(^oC)	200
(10)	Feed water temperature	(^oC)	30
(11)	Type of fuel oil		HSDOil
(12)	Oil firing equipment		

Burner

Number		2
Atomizing method		Mechanical atomizing with return oil

Forced draft fan

Type		G4-73-11-8D
Capacity	(m^3/minute)	521
Static pressure	(mm H_2O)	211

Fuel oil pump

Type		3GY-2.4/25
Number		1
Capacity	(m^3/minute)	0.04

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	Combustion control		Control Panel
	Fuel oil comsumption at rated load	(m^3/hour)	1.52
	Fuel oil tank	(m^3)	40
(13)	Feed water equipment		
	Feed water pump		
	Type		3GB-5x5
	Number		1
	Capacity	(m^3/minute)	0.42
	Pressure	(kg/cm^2g)	20
	Type of feed water control		Valve
	Feed water tank	(m^3)	10
(14)	Stack		
	Type		Self-standing
	Material		Carbon Steel
	Height	(m)	12
(15)	Control panel		
	Type		KK
	Dimension	(mm)	2300x1100x900
(16)	Power Source		
	Consumption	(KW)	200
	Voltage	(V)	380
	Phase		3

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(17) Performance data

Load		50%	75%	100%
Steam generation	(Kg/Hour)	$10x10^3$	$15x10^3$	$20x10^3$
Drum pressure	(kg/cm^2g)	13	13	13
Fuel oil consumption	(m^3/Hour)	0.89	1.2	1.52
Steam pressure	(Kg/cm^2g)	13	13	13
Excess air	(%)	1.15	1.15	1.15
Gas temperature at boiler out let	(^oC)	165	180	200
Number of burners in operation		2	2	2
Boiler efficiency	(%)	70	77.5	81.63

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2. TURBINE ROOM OVERHEAD CRANE WITH COUPLING ARRANGEMENT

(1)	Type		Overhead travelling
(2)	Number		2 Sets
(3)	Manufacturer		Dalian Crane Works
(4)	Capacity		
	Main hoist	(Tons)	* 75
	Auxiliary hoist	(Tons)	* 20
(5)	Span (Centre to Centre rails)	(mm)	28500
(6)	Full load speed		
	Main hoist	(m/minute)	1.2
	Auxiliary hoist	(m/minute)	5.0
	Trolley travel	(m/minute)	10.0
	Bridge travel	(m/minute)	20.0
(7)	Vertical control movement	(mm)	* 3
(8)	Maximum lift of hook		
	Main hoist	(mm)	20000
	Auxiliary hoist	(mm)	22000
(9)	Runway rail		
	Type		QU-100 (88.96kg/m)
	Length (total)	(mm)	256800
(10)	Top runway rail to low point of roof truss	(mm)	3260
(11)	Motor		
	Main hoist		
	Type		JZR_2 51-8
	Voltage	(V)	380
	Speed	(rpm)	715
	Rating	(KW)	22

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Auxiliary hoist		
Type		JZR_2 51-8
Voltage	(V)	380
Speed	(rpm)	715
Rating	(KW)	22
Trolley travel		
Type		JZR_2 21-6
Voltage	(V)	380
Speed	(rpm)	930
Rating	(Kw)	5
Bridge travel		
Type		JZR_2 41-8
Voltage	(V)	380
Speed	(rpm)	710
Rating	(KW)	8.8
(12) Diameter of drum		
Main hoist	(mm)	Ø800
Auxiliary hoist	(mm)	Ø500
(13) Brake		
Main hoist		AC magnetic JCZ-400-45
Auxiliary hoist		AC magnetic JCZ-400-45
Trolley travel		Hydraulic YWZ-200/25
Bridge travel		Hydraulic, Pedal YWZ-200/25 2x32
(14) Bridge type		Box section welded
(15) Operation cab size	(LxWxH) (mm)	2700x1300x2200
(16) Trolley wire size	(mm^2)	728.2(steel) +300(Aluminium)

(17) Hoisting rope size

Main hoist	(mm)	Ø30
Auxiliary hoist	(mm)	Ø17.5

(18) Wheel

		Bridge	Trolley
Number		8	4
Dia meter	(mm)	700	600
Maximum load (each wheel)	(Kg)	30.078	26.21

(19) Material

Bridge	Carbon Steel
Trolley	Carbon Steel
Drum	Cast Iron
Hoisting rope	High Strengh Carbon Steel
Trolley wire	Carbon

(20) Weight

Bridge	(Kg)	54637
Trolley	(Kg)	24200
Assembly	(Kg)	78837

3. WATER SUPPLY SYSTEM

3.1 INTAKE WATER SYSTEM

(1) Intake water pump

Type		Vertical mixed flow
Number		12 Sets
Manufacturer		Shenyang Pump Factory
Capacity	(m^3/Hour)	600
Total head	(m)	60
Shutoff head	(m)	85
Pump efficiency	(%)	85
NPSH required	(m)	12
Speed	(rpm)	1475

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Power	(KW)	90
Dimension		
Pump shaft length	(mm)	6000(Approx.)
Pump shaft diameter	(mm)	80
Suction bell mouth diameter	(mm)	450
Discharge connection diameter	(mm)	300
Lubricating water capacity	(m^3/Hour)	40
Material		
Shaft		1035(SAE)
Bearing		Wear-resisting rubber
Impeller		51410(SAE)
Shaft enclosing tube		30302(SAE)
Suction strainer		30316(SAE)
Motor		
Out put	(KW)	90
Voltage	(V)	380
Speed	(rpm)	1475
Insulation class		B
Type of starting		Full voltage line start
Weight		
Pump	(Kg)	3000
Motor	(Kg)	1200
Assembly	(Kg)	4200

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(2) Discharge valve and check valve

Type		Butterfly
Number		12
Manufacturer		Tieling Valve Works
Size	(mm)	300
Material		1035(SAE)

Motor

Output	(KW)	1.1
Voltage	(V)	380
Speed	(rpm)	2900
Insulation class		B
Weight	(Kg)	25

(3) Bar Screen

Type		with hook rectangular type
Number		36
Manufacturer		Changchun Electric Equipment Works
Screen		
Guide channel suction number		8
Guide channel number		0

Bar

Pitch of bar	(m)	25
Number		86
Thickness	(mm)	10
Width	(mm)	30
Material		Carbon Steel

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3.2 WATER PRETREATMENT SYSTEM

Quality of treated water at outlet of coagulation sedimentation tank		
PH		* 6 to 8.5
Turbidity		Less than 2.0 ppm at filter
Suspended colid		Less than * 10 ppm
Iron		0.1
Treated capacity	(m^3/hour)	* 2427.2 for 2 Units
Quality of treated water at outlet of filter equipment		
PH		* 6 to 8.5
Suspended solid		* 1.0 ppm

(1) Intake water receiving equipment

(a) Intake water receiving tank

Type		Semi-underground
Number		6 Sets
Capacity	(m^3)	788.8
Dimension		
Height	(mm)	3500
Width	(mm)	6260
Depth	(mm)	36000
Average velocity	(cm/sec)	2.0

(b) Coagulation sedimentation tank transfer pump

Type		Outdoor
Number		18 Sets
Manufacturer		Wuhan Pump Plan
Capacity	(m^3/Hour)	934.6
Discharge head	(m)	36

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NPSH	(m)	Approx.3
Speed	(rpm)	1470
Shaft horsepower	(KW)	110
Material		
Casing		Cast iron
Shaft		Carbon Steel
Impeller		Cast iron
Motor		
Output	(KW)	135
Voltage	(V)	380
Speed	(rpm)	1500
Method of starting		Full voltage line star
Weight		
Pump	(Kg)	1220
Assembly	(Kg)	1600(Approx.)
(C) Sludge discharge pump		
Type		Outdoor
Number		6 Sets
Manufacturer		Shijia zhuang Pump Plant
Capacity	(m^3/Hour)	30~58
Discharge head	(m)	22~17
NPSH	(m)	
Speed	(rpm)	1450
Shaft horsepower	(KW)	6.9
Material		
Casing		Cast iron
Shaft		Carbon Steel
Impeller		Cast iron

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Motor

Output	(KW)	10
Voltage	(V)	380
Speed	(rpm)	1500
Method of Starting		Full voltage line start

Weight

Pump	(Kg)	150
Assembly	(Kg)	273

(2) Coagulation Sedimentation tank equipment

(a) Coagulation sedimentation tank.

Type		Semi-underground
Number		9 Sets
Capacity	(m^3)	2095

Dimension

Height	(mm)	8000
Width	(mm)	Ø 25000
Depth	(mm)	
Separation Velocity	(m/Hour)	1.8

(b) Driving unit

Type		Motors
Number		9 Sets
Manufacturer		Shenyang Mine Machine Plant
Upflow rate	(m/Hour)	216

Material

Rotor	Stainless steel
Casing	Stainless steel

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Motor

Output	(KW)	7.5
Voltage	(V)	380
Speed	(rpm)	120~1200
Method of starting		Full voltage line st
Weight	(Kg)	190

(c) Sludge pump

Type		Outdoor
Number		9 sets
Manufacturer		Shijiazhuang Pump Plant
Capacity	(m^3/Hour)	30~58
Discharge head	(m)	22~17
NPSH	(m)	
Speed	(rpm)	1450
Shaft horsepower	(KW)	6.9

Material

Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron

Motor

Output	(KW)	10
Voltage	(V)	380
Speed	(rpm)	1500
Method of Starting		Full voltage line star

Weight

Pump	(Kg)	150
Assembly	(Kg)	273

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(3) Clarified water storage tank equipment

(a) Clarified water storage tank

Type		Semi underground
Number		6 Sets
Capacity	(m^3)	3000

(b) Cooling tower make up pump

Type		Outdoor vertical shaft type
Number		6 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	950
Discharge head	(m)	43
NPSH	(m)	
Speed	(rpm)	1475
Shaft horsepower	(KW)	1455

Material

Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron

Motor

Output	(KW)	185
Voltage	(V)	380
Speed	(rpm)	1500
Method of starting		Full voltage line start

Weight

Pump	(Kg)	Approx. 800
Assembly	(Kg)	Approx. 1000

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(c) Filter equipment transfer pump

Type		Outdoor vertical shaft type
Number		6 Sets
Manufacturer		Beijing Pump Plant
Capacity	(m^3/Hour)	288～549
Discharge head	(m)	25
NPSH	(m)	Approx.4
Speed	(rpm)	1470
Shaft horsepower	(KW)	31.7
Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron
Motor		
Output	(KW)	40
Voltage	(V)	380
Speed	(rpm)	1500
Method of starting		Full voltage line start
Weight		
Pump	(Kg)	400
Assembly	(Kg)	600(Approx.)

(4) Filter equipment

(a) Filter

Type		Vertical pressure
Number		9 Sets
Manufacturer		Wuxi Boiler Plant
Capacity	(m^3/Hour)	45
Filteration rate (m/Hour)		Less than 7.0

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Filtering materials

Washing rate by back - washing	(m/Hour)	64.8
Cleaning rate by air scrubbing	(m^3/m^2/Hour)	72
Net washing and cleaning time		13 minutes
Diameter	(mm)	3200
Height	(mm)	4645
Weight	(Kg)	7220

(b) Air scrubbing blower

Type		Rotary type
Number		6 Sets
Capacity	(Nm^3/min)	28
Speed	(rpm)	1470
Noise	dB(A)	Approx.80
Exhaust pressure	(mm Hg)	809.6

Material

Casing		Cast iron
Shaft		Carbon steel
Blade		Cast iron

Motor

Output	(KW)	75
Voltage	(V)	380
Speed	(rpm)	1500
Method of Starting		Full voltage line start

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(5) Treated water storage tank equipment

(a) Treated water storage tank

Type		Semi underground
Number		3 Sets
Capacity	(m^3)	1000
Dimension		
Height	(mm)	4000
Width	(mm)	11400
Depth	(mm)	22800

(b) Filter backwashing pump

Type		Outdoor
Number		6 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	360～576
Discharge head	(m)	27～19
NPSH	(m)	6
Speed	(rpm)	1470
Shaft horsepower	(KW)	33.1～36.4
Material		
Casing		Cast iron
Shaft		Carbon Steel
Impeller		Cast iron
Motor		
Output	(KW)	45
Voltage	(V)	380
Speed	(rpm)	1500
Method of starting		Full voltage line star

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Weight		
Pump	(Kg)	420
Assembly	(Kg)	950
(c) Drinking water feed pump		
Type		Outdoor
Number		6 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	180
Discharge head	(m)	95
NPSH	(m)	5
Speed	(rpm)	2950
Shaft horsepower	(KW)	71.8
Material		
Casing		Cast iron
Shaft		Carbon Steel
Impeller		Cast iron
Motor		
Output	(KW)	110
Voltage	(V)	380
Speed	(rpm)	3000
Method of starting		Full voltage line start
Weight		
Pump	(Kg)	309
Assembly	(Kg)	Approx. 1300
(d) Treated water transfer pump		
Type		Outdoor
Number		6 Sets

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Manufacturer		Changchun Pump Plant
Capacity	(m^3/Hour)	110~200
Discharge head	(m)	36.5~29.2
NPSH	(m)	5.2
Speed	(rpm)	1450
Shaft horsepower	(KW)	15.6~21.4
Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron
Motor		
Output	(KW)	30
Voltage	(V)	380
Speed	(rpm)	1500
Method of Starting		FVLS
Weight		
Pump	(kg)	117
Assembly	(Kg)	400

(6) Chemical storage and injection equipment

(a) Chemical storage tank

		NaOH
Type		Horizontal cylindrical
Number		3 sets
Capacity	(m^3)	10
Material		steel plate
Lining		Epoxy
Dimension	(mm)	Ø1820
Weight	(Kg)	2910

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(b) NaOH unloading pump

Type		Horizontal type
Number		3 Sets
Manufacturer		Shijiazhang Pump Plant
Capacity	(m^3/Hour)	13.1
Head	(m)	12
Speed	(rpm)	2960
Material		
Casing		Stainless steel
Shaft		Stainless steel
Impeller		Stainless steel
Motor		
Output	(KW)	2.2
Voltage	(V)	380
Speed	(rpm)	3000
Method of Starting		Full voltage line start

(c) Dilute NaOH tank

Type		Vertical
Number		9 Sets
Capacity	(m^3)	3

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	Height	(mm)	2075
	Diameter	(mm)	1512
	Material and lining		Mild steel
(d)	Dilute NaOH dosing pump		
	Type		Outdoor horizontal diaphragm
	Number		6 Sets
	Manufacturer		Chong Qing Pump Works
	Capacity	(m^3/Hour)	0.0126
	Head	(m)	32
	Speed	(rpm)	
	Motor		
	Output	(KW)	0.18
	Voltage	(V)	380
	Speed	(rpm)	
	Method of starting		Full voltage line start
	Material and lining		Stainless steel
	Weight	(Kg)	Approx. 80
(e)	Dilute NaOH tank agitator		
	Type		Paddle
	Number		9
	Manufacturer		JiangDu Water Equipment Plant
	Material and lining		
	Rotor		Stainless steel
	Casing		Stainless steel
	Agitating propeller		Stainless steel

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Motor

Output	(KW)	0.6
Voltage	(V)	380
Speed	(rpm)	1500
Method of starting		Full voltage line start
Weight	(Kg)	Approx.40

(f) Coagulant tank

Type		Vertical cylindrical type
Number		6 Sets
Manufacturer		Field make
Capacity	(m^3)	150
Height	(mm)	3000
Diameter	(mm)	8000
Material and lining		Mild steel plate with rubber lining

(g) Coagulant dosing pump

Type		Outdoor
Number		6 Sets
Manufacturer		Chong Quing Pump Plant
Capacity	(m^3/Hour)	1
Head	(m)	63
Speed	(rpm)	———

Motor

Output	(KW)	0.8
Voltage	(V)	380
Speed	(rpm)	———
Method of starting		Full voltage line sta
Material and lining		Stainless steel
Weight	(Kg)	Approx.100

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(h) Coagulant aid tank

Type		Vertical cylindrical type
Number		6 Sets
Capacity	(m^3)	30
Height	(mm)	2000
Diameter	(mm)	4470
Material and lining		Mild steel plate with epoxy coating

(i) Coagulant aid dosing pump

Type		Outdoor
Number		6 Sets
Manufacturer		Chong Quing Pump Works
Capacity	(m^3/Hour)	2.5
Head	(m)	80
Speed	(rpm)	———
Motor		
Output	(KW)	0.12
Voltage	(V)	380
Speed	(rpm)	———
Method of starting		Full voltage line start
Material and lining		Stainless steel
Weight	(Kg)	Approx.100

(j) Coagulant aid tank agitator

Type	Paddle
Number	6 Sets
Manufacturer	Jiang Du Water Equipment Plant

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Material and lining

Rotor		Stainless steel
Casing		Stainless steel
Agitating propeller		Stainless steel

Motor

Output	(KW)	0.6
Voltage	(V)	380
Speed	(rpm)	1420
Method of starting		Full voltage line start
Weight	(Kg)	Approx. 40

(k) Concentrated NaOH transfer pump

Type		Outdoor Horizontal Type
Number		3 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	13.1
Head	(m)	12
Speed	(rpm)	2960

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Motor

Output	(KW)	2.2
Voltage	(V)	380
Speed	(rpm)	3000
Method of starting		Full voltage line start
Material and lining		Stainless steel
Weight	(Kg)	48

(1) Chemical storage yard pit pump

Type		Submerged
Number		6 Sets
Manufacturer		Shang Hai Pump Plant
Capacity	(m^3/Hour)	15～25
Head	(m)	34.5～29.0
Speed	(rpm)	2900

Motor

Output	(KW)	7.5
Voltage	(V)	380
Speed	(rpm)	3000
Method of Starting		Full voltage line start

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Material and lining		Cast iron & stainless steel
Weight	(Kg)	196

(7) Control Unit System

(a) pH meter

Type	DH-103
Manufacturer	Xi An Instrument Factory
pH detector	DH-103
pH indicater	4136Ih15
pH recorder	ER 100
pH metering range and sense (PH)	0~14
pH detection spots	Clarified water storage tank

(b) Flow integerating meter

Type	4136IH15
Manufacturer	
Flow detector	115-1DP
Flow Indicator	4136IH15
Flow integerating meter	5217
Flow metering range and sense (m^3/Hour)	1600

(c) Control panel for water pretreatment equipment

Type	Self standing
Number	3 Sets
Manufacturer	Xi An Instrument Factory

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Height X Width X Depth	(mm)	
(d) Painting		2300 X 1100 X 900
(8) Piping		
(a) On ground piping		
Pipe material		Carbon steel
Size		Ø200~Ø500
Protection material for external surface		Pitch
Protection material for internal surface		Pitch
(b) Under ground piping		
Pipe material		Carbon steel
Size		Ø200~Ø500
Protection material for external surface		Pitch
Protection material for internal surface		Pitch
(9) Ladder, Handrail, walk way, grating, manhole cover, pit cover etc.		
Material		Steel and Cast iron
Total weight		Approx. 15T

3.3 SERVICE WATER TANK

(1) Type		Vertical Cylindrical type
(2) Number		6 Sets
(3) Manufacturer		Field make
(4) Capacity	(m^3)	1500

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(5)	Inside diameter	(mm)		13562
(6)	Shell height	(mm)		10635
(7)	Material and thickness			
			Material	Thickness(mm)
	Water plate		Carbon Steel	4~7
	Bottom plate		Carbon Steel	4
	Roof plate		Carbon Steel	4
	Air tight seal		Carbon Steel	4
(8)	Weight	(Kg)		3000
(9)	Piping			
	Main power house piping			Carbon steel
	Intake water system			Carbon steel
	Outdoor piping			Carbon steel
	Others			Carbon steel
	Total weight of piping (Tons)			Approx. 135
(10)	Service water pump			
	Type			Centrifugal horizontal
	Number			6 Sets
	Manufacturer			Chang Chun Pump Plant
	Capacity	(m^3/Hour)		54
	Discharge head	(m)		62
	NPSH	(m)		6.6
	Speed	(rpm)		2950
	Shaft horsepower	(KW)		12

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Material			
	Casing		Cast iron
	Shaft		Carbon steel
	Impeller		Bronze casting
Motor			
	Output	(KW)	15
	Voltage	(V)	380
	Speed	(rpm)	3000
	Method of Starting		Full voltage line start
	Weight		
	Pump	(Kg)	186
	Assembly	(Kg)	350
(11)	Insulation material		Polyurethane formed plastic
(12)	Painting material		Epoxic resin & phendated alkyed resin

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3.4 WATER TREATMENT SYSTEM

(1) Water treatment equipment

Type		Two bed three tower type
Number		6 Sets
Manufacturer		Wu Xi Boiler Works
Capacity	(Tons/Hour)	25
Quality of treated water		
Conductivity (at 25°C)	(us/cm)	< 0.5
Dissolved Oxygen	(ppm)	< 0.3 (Degassing Tower Outlet)
Silicon	(ppm)	≤ 0.015
Linear velocity	(m/sec)	0.00517
Chemical consumption for regeneration		
HCl	(Kg)	600
NaOH	(Kg)	250
Operation hour per one cycle		
Service	(Hour)	20
Regeneration	(Hour)	4
Regeneration waste water		
Quantity per cycle	(m^3)	~ 90
pH		2~4
(a) Water treatment supply pump		
Type		Horizontal
Number		6 Sets
Manufacturer		Shenyang No.1 Pump Manufactory
Capacity	(m^3/Hour)	70~120

Discharge head	(m)	44.5~32
NPSH	(m)	6.3~5.4
Speed	(rpm)	2930
Shaft horsepower	(KW)	12.45~14.51
Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron
Motor		
Output	(KW)	18.5
Voltage	(V)	380
Speed	(rpm)	2930
Method of starting		Full voltage line start
Weight		
Pump	(Kg)	77
Assembly	(Kg)	305
(b) Regeneration water pump		
Type		Centrifugal horizontal
Number		6 Sets
Manufacturer		Shenyang No.1 Pump Manufactory
Capacity	(m^3/Hour)	15~32
Discharge head	(m)	42~36
NPSH	(m)	7
Speed	(rpm)	2900
Shaft horsepower	(KW)	3.37~5.15

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Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron
Motor		
Output	(KW)	5.5
Voltage	(V)	380
Speed	(rpm)	2900
Method of starting		Full voltage line start
Weight		
Pump	(Kg)	68
Complete	(Kg)	133

(c) Booster pump

Type		Centrifugal horizontal
Number		6 Sets
Manufacturer		Da Lian Corrosion-Resistant Pump Manufactory
Capacity	(m^3/Hour)	30.6~64.1
Discharge head	(m)	56~45
NPSH	(m)	6
Speed	(rpm)	2960
Shaft horsepower	(KW)	9~13.6
Material		
Casing		Stainless steel
Shaft		Stainless steel
Impeller		Stainless steel

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Motor

Output	(KW)	22
Voltage	(V)	380
Speed	(rpm)	2940
Method of starting		Full voltage line start

Weight

Pump	(Kg)	101
Assembly	(Kg)	350

(d) Cation tower

Type		Vertical
Number		6 Sets
Manufacturer		Wu Xi Boiler Works
Size		Ø1500
Resin name and quantity		Strong acid resin 3.56 m^3
Effective height of resin	(m)	2
Design pressure	(kg/cm^2)	6
Linear velocity	(m/sec)	0.005187

Material

Distributor		PVC
Collector		Rubber lined carbon steel
Tower		Carbon steel
Lining		Rubber

Weight

Empty	(Kg)	3183
Complete	(Kg)	~ 7900

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(e) Anion tower

Type		Vertical
Number		6 Sets
Manufacturer		Wu Xi Boiler Works
Size		Ø1500
Resin name and quantity		Weak resin 1.78m^3 strong resin 1.7m^3
Effective height of resin	(m)	2
Design pressure	(kg/cm^2)	6
Linear velocity	(m/sec)	0.005187

Material

Distributor		PVC
Collector		Rubber lined carbon steel
Tower		Carbon steel
Lining		Rubber

Weight

Empty	(Kg)	3183
Complete	(Kg)	~ 7500

(f) Mix-bed tower

Type		Vertical
Number		6 Sets
Manufacturer		Wu Xi Boiler Works
Size		Ø1000
Resin name and quantity		Strong acid resin 0.32m^3 Strong anion resin 0.64m^3
Effective height of resin	(m)	1.2
Design pressure	(kg/cm^2)	6
Linear velocity	(m/sec)	0.011

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Material

Distributor		PVC
Collector		Steel plate with rubber lining
Tower		Carbon steel
Lining		Rubber

Weight

Empty	(Kg)	1603
Complete	(Kg)	2420

(g) Vacuum degassing tower

Type		Vertical
Number		6 Sets
Manufacturer		Power Machine Works
Capacity		Ø1000
Material		Steel plate with inside rubber lining

Weight

Empty	(Kg)	2300
Complete	(Kg)	~ 3300

(h) Vacuum generating equipment

Type		Steam injection type
Number		6 Sets
Manufacturer		Hang Zhou Vacuum Equipment Manufactory
Operating vacuum		> 720 mm Hg

(i) Chemical storage tank

		NaOH	HCl
Type		Horizontal	Horizontal
Number		3 sets	6 sets
Capacity	(m^3)	20	30

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	Dimension	(mm)	Ø2524	Ø2524
	Material		Carbon steel	Carbon steel
	Lining		Epoxy	Rubber
	Weight	(Kg)	5360	7010
(j)	Chemical measuring tank			
	Type			Vertical
	Number			6 Sets
	Capacity	(Liters)		1000
	Dimension	(mm)		Ø1000
	Lining			Rubber (for acid)
	Weight	(Kg)		499
(k)	HCl gas seal tank			
	Type			Vertical
	Number			6 Sets
	Manufacturer			Fu Xin Power Corporation
	Capacity	(m^3)		0.17
	Diameter	(mm)		Ø800
	Height	(mm)		500
	Weight	(Kg)		42
(l)	NaOH unloading pump			
	Type			Horizontal
	Number			3 Sets
	Manufacturer			Da Lian Corrosion-resistant Pump Manufactory
	Capacity	(m^3/Hour)		7.92~17.28
	Head	(m)		18.8~14
	Speed	(rpm)		2840
	Shaft horse power	(KW)		2.2

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Material			
	Casing		Stainless steel
	Shaft		Stainless steel
	Impeller		Stainless steel
Motor			
	Output	(KW)	2.2
	Voltage	(V)	380
	Speed	(rpm)	2840
Weight			
	Pump	(Kg)	68
	Assembly	(Kg)	98

(m) HCL unloading pump

Type		Horizontal
Number		6 Sets
Manufacturer		Shang Hai Nan Hun Agricultural Machine Work
Capacity	(m^3/Hour)	21~33
Head	(m)	35~34
Speed	(rpm)	2900

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Material		
Casing		FRP
Shaft		Carbon steel painted
Impeller		FRP
Motor		FRP
Output	(KW)	5.5
Voltage	(V)	380
Speed	(rpm)	2900
Weight	(Kg)	65

(n) Instrument air receiver

Type		Vertical
Number		6 Sets
Capacity	(m^3)	1
Dimension	(mm)	Ø800
Material		Carbon steel
Weight	(kg)	400

(o) Silica meter

(i) Detector

Type		IBC-04
Number		3
Manufacturer		Xi An Instrument Factory
Measuring range	(ppm)	0~100

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	Accuracy		± 5%
(ii)	Recorder		
	Type		ER 100
	Number		3
	Manufacturer		Si Chuan Instrument Factory
	Measuring range		0~100
	Accuracy		± 0.5%
(p)	pH meter		
(i)	Detector		
	Type		DH-103
	Number		2
	Manufacturer		Xi An Instrument Factory
	Measuring range	(pH)	0-14
	Accuracy	(pH)	± 0.1
(ii)	Recorder		
	Type		ER 100
	Number		2
	Manufacturer		Si Chuan Instrument Factory
	Range		0~14
	Accuracy		± 0.5%
(2)	Waste water pit		
(a)	Waste water discharge pump		
	Type		Submerged anticorrosion
	Number		6 Sets
	Manufacturer		Da Lian Corrosion-resistant Pump Manufactory
	Capacity	(m^3/Hour)	50.5~110
	Head	(m)	36.2~24.2
	Speed	(rpm)	2930

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Material		
Casing		Stainless steel
Shaft		Stainless steel
Impeller		Stainless steel
Motor		
Output	(KW)	18.5
Voltage	(V)	380
Speed	(rpm)	2930
Weight	(Kg)	146

(b) Mix air blower

Type		Horizontal
Number		3 Sets
Capacity	(m^3/Hour)	360
Speed	(rpm).	1450
Noise	(dB(A))	84
Material		
Casing		Cast iron
Shaft		Carbon steel
Blade		Cast iron

(3) Control panel

Type		Self standing
Number		3 Sets
Manufacturer		Xi An Instrument Factory
Dimension	(mm)	LXWXH 1100x900x2300

(4) Piping

	Material	Size (mm^2)
Supply pump - Demineralizer inlet	Stainless steel	Ø125
Mix bed polisher-Demineralized water tanks	Carbon steel with lining	Ø100~ Ø125
Chemical piping	FRP	Ø40~ Ø80

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	Material	Size (mm^2)
Lining piping	Rubber lining	
Waste water pit air bubbling piping	Stainless steel	Ø100
Waste water pump-waste water storage pond	Carbon steel with lining or FRP	Ø100

(5) Total weight of waste water pit: 120 m^3

(6) Ladder, hand rail, walkway, grating, manhole cover and pit cover etc.

Material: Carbon steel

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3.5 DEMINERALIZED WATER TANK

(1)	Type			Vertical cylinderical
(2)	Number			6 Sets
(3)	Manufacturer			Field constructing
(4)	Capacity	(m^3)		1000
(5)	Inside diameter	(mm)		12000
(6)	Shell height	(mm)		9500
(7)	Vertical number of courses			7500
(8)	Material and thickness			
			Material	Thickness (mm)
	Wall plate		Steel plate	6.7.8
	Bottom plate		Steel plate	8
	Roof plate		Steel plate	4.5
	Floating deck		____	PVC
(9)	Weight	(Kg)		~ 29000
(10)	Piping		Material	Size (mm^2)
Demineralized water tank- Demineralized transfer pump			Carbon steel with lining	Ø150
Demineralized transfer pump - Make up water tank			Carbon steel with lining	Ø100
(11)	Demineralized water transfer pump			
	Type			. Centrifugal horizontal
	Number			6 Sets
	Manufacturer			Shenyang No.1 Pump Manufactory
	Capacity	(m^3/Hour)		35~60
	Head	(m)		63~56

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NPSH	(m)	7.0
Speed	(rpm)	2930
Shaft horse power	(KW)	10.5~14.5
Material		
Casing		Cast iron
Shaft		Carbon steel
Impeller		Cast iron
Motor		
Output	(KW)	15
Voltage	(V)	380
Speed	(rpm)	2930
Weight		
Pump	(Kg)	74
Assembly	(Kg)	189

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4 FIRE PROTECTION SYSTEM

(1) Fresh water extinguishing equipment

(a) Emergency fresh water fire pump

		Motor driven	Diesel driven
Type		Yes	Yes
Number		3 Sets	3 Sets
Manufacturer		Shenyang Pump Plant	Shenyang Pump Plant
Capacity	(m^3/Hour)	760	760
Discharge pressure	(Kg/cm^2g)	9.3	9.3
Speed	(rpm)	1470	1470
Shaft horse power	(KW)	250	250
Material			
Casing		Cast iron	Cast iron
Shaft		Carbon steel	Carbon steel
Impeller		Cast iron	Cast iron
Engine			
Type		Motor	Diesel
Number		3	3
Horse power	(KW)	260	260
Weight			
Complete	(Tons)	4	5

(b) Fire water pump

Type		Horizontal Centrifugal
Number		6 Sets
Manufacturer		Chang Chun Pump Plant
Capacity	(m^3/Hour)	54
Discharge pressure	(Kg/cm^2g)	9.3

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Speed	(rpm)	2950
Shaft horse power	(KW)	18

Material

Casing	Cast iron
Shaft	Carbon steel
Impeller	Cast iron
Weight (Kg)	204

(c) Hydrant

	Machine Hall	Boiler Area	Others
Type	Ø 40mm diameter	90° angle	Ø65mm diameter
Number	27 Sets	21 Sets	90 Sets
Manufacturer	Si Chuan Fire-Appliance Manufactory	Si Chuan Fire-Appliance Manufactory	Si Chuan Fire-Appliance Manufactory
Hose connection (mm)	40	40	65

(2) Air foam extinguishing equipment

(a) Air foam concentrate tank

Type	Vertical
Number	3 Sets
Manufacturer	Field make
Capacity (m^3)	6.0

(b) Air foam concentrate injection pump

The contractor shall use a pressure air-foam proportioner system, therefore, the air foam concentrate injection pump shall not be offered.

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Engine			
Type			Diesel engine
Number			3 Sets
Manufacturer			Shang Hai Diesel Engine Plant
Horse power		(KW)	110.3
Weight		(Kg)	2000
(c) Air foam hydrant			
Type			Outdoor
Number			38 Sets
Manufacturer			Chang Sha Fire-Appliance Plant
Hose connection		(mm)	65
(d) Fire fighting truck			
Type			Diesel Engine Driven
Number			3 Sets
Manufacturer			ZhenDan Fire Machinnery Manufactory
Water tank capacity		(m^3)	4.5
Foam concentrate tank capacity		(m^3)	1.5
(3) Dry chemical extinguishing equipment			
Type			Remote and local actuation
Number			6 Sets
Manufacturer			ZhenDan Fire Machinery Manufactory
Chemical storage capacity		(Kg)	2000
Delivery ratio		(Kg/sec)	50

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(4) Fire alarm system

(a) Fire detecting equipment

Type	Automatic Thermostat	Push button Manual
Number of alarm point	4 Sets	37 Sets
Manufacturer	XIAN 262 Plant	SFAM

(b) Fire protection panel

Type	JZW-P-130
Number	3 Sets
Manufacturer	Wu Xi Alarm Equipment Factory
Dimension W x L x H (mm)	505x756x1700

(5) Portable fire extinguishing equipment

	Wheel carry Powder Chemical	Hand carry Powder Chemical
Type		
Number	6 Sets	162 Sets
Manufacturer	Beijing Fire Machinery Plant	Beijing Fire Machinery Plant
Capacity (each) (Kg)	50	8

SFAM: Si Chuan Fire-Applianace Manufactory

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5. FUEL OIL SYSTEM

5.1 FUEL OIL UNLOADING AND RECEIVING SYSTEM

5.1.1 RESIDUAL OIL UNLOADING FACILITIES

(1) Steam and drain headers

Steam header size		
Diameter	(mm)	273
Length	(m)	650
Drain header size		
Diameter	(mm)	89
Length	(m)	650
Number of flexible hose for steam		70
Number of flexible hose for drain		70
Material and size of flexible hose connecting steam header and tank wagon		Stainless steel, the size according to tank wagon
Material and size of flexible hose connecting drain header and tank wagon		Stainless steel, the size according to tank wagon

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5.1.2 RESIDUAL OIL RECEIVING FACILITIES

(1) Residual oil receiving pump

Type		S 35U100D-4
Number		4
Manufacturer		Shenyang Pump Manufactory
Capacity each	(Kl/Hour)	73
Suction pressure	(Kg/cm^2g)	Allowable suction lift 4.5m
Discharge pressure	(kg/cm^2g)	4

(2) Air separator

Type		Welded steel
Number		4
Manufacturer		
Volume	(m^3)	
Design flow	(Kl/Hour)	75

(3) Strainer

Type		Simplex
Number		4
Manufacturer		Harbin Boiler Works
Design flow	(Kl/Hour)	75
Connection size	(mm)	273x6
Screen material and mesh		Stainless steel 60 mesh
Effective screen area per sectional area of the pipe connection		$2400cm^2$

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5.1.3 HSD OIL RECEIVING FACILITIES

(1) Flexible hose

Diameter	(mm)	According to tank wagon
Length	(m)	According to tank wagon
Material of the flexible hose		Rubber
Diameter of connection	(mm)	According to tank wagon

(2) HSD oil receiving pump

Type		Gear CHY 18
Number		2 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(Kl/Hour)	18
Suction pressure	(Kg/cm^2g)	Allowable suction lift 5m
Discharge pressure	(Kg/cm^2g)	3.3

5.1.4 OIL DRAIN

(1) Oil drain collecting tank

Type		Welded
Number		1
Capacity	(m^3)	0.7
Thickness of tank plate	(mm)	5

(2) Oil drain pump

Type		Gear CHY3.3
Number		1 Set
Manufacturer		Shenyang Pump Manufactory
Capacity	(Kl/Hour)	3.3
Suction head	(m)	Allowable suction lift 3m
Discharge pressure	(Kg/cm^2g)	3

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(3) Strainer

Type		Vertical
Number		1
Manufacturer		Harbin Boiler Works
Connection size	(mm)	Ø57x3
Screen material and mesh		Stainless steel 60 mesh

5.2 RESIDUAL OIL TRANSFER SYSTEM

5.2.1 RESIDUAL OIL SUCTION HEATER

Type		U tube
Number		3 Sets
Manufacturer		Harbin Boiler Works
Heating surface	(m^2)	81
Oil flow	(Kg/Hour)	75000
Steam flow	(Kg/Hour)	1625
Steam pressure	(Kg/cm^2g)	3
Inlet oiltemperature	(^oC)	25
Outlet oil temperature	(^oC)	50
Heat transfer coefficient	($Kcal/m^2H^oC$)	62

5.2.2 RESIDUAL OIL TRANSFER PUMP

(1) Pump

Type		Screw motor driven 3SW100D-4
Number		4 Sets
Manufacturer		Shenyang Pump Manufactory
Capacity	(K1/Hour)	73
Discharge pressure	(Kg/cm^2g)	9
Shaft horse power	(KW)	13.3
Speed	(rpm)	1450

(2) Accessories

(a) Strainer

Type		Simplex
Number		4 Sets
Manufacturer		Harbin Boiler Works
Design flow	(Kl/Hour)	75
Connection size	(mm)	Ø219x6
Screen material and mesh		Stainless steel wire 60 mesh
Effective screen area per sectional area of the pipe connection		7600cm^2

(b) Pressure regulator

Type		T40H-100
Number		2
Manufacturer		Harbin Boiler Works
Control range	(Kg/cm^{2}g)	6

5.2.3 OIL SEPARATOR TRANSFER PUMP

Type		Motor driven 40 W40
Number		1
Manufacturer		Shenyang Pump Manufactory
Capacity	(Kl/Hour)	5.4
Suction head	(m)	Allowable Suction lift 4.5
Discharge head	(m)	40

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6. DRAINAGE AND WASTE WATER TREATMENT EQUIPMENT

Quality of treated water	(pH)	6.5~8.5
Treatment capacity	(m^3/hr)	50~100

(1) Machine hall drainage system

(a) Turbine room sump pump

Type		2PNL
Number		3 Sets
Manufacturer		Shijiazhuang Pump Works
Capacity	(m^3/Hour)	30

Motor

Output	(KW)	11
Voltage	(V)	380
Speed	(rpm)	1460
Weight	(Kg)	Approx.300

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(b) Turbine oil sump pit pump

Type		2PNL
Number		3 Sets
Manufacturer		Shijiazhuang Pump Works
Capacity	(m^3/Hour)	30
Motor		
Output	(KW)	11
Voltage	(V)	380
Speed	(rpm)	1460
Weight	(Kg)	Approx.300

(2) Unit drainage pit equipment

(a) Pump

Type		Centrifugal horizontal
Number		12
Manufacturer		SPW
Capacity	(m^3/Hour)	178
Head	(m)	45.5
Speed	(rpm)	2960
Material		
Casing		Stainless steel
Shaft		Stainless steel
Impeller		Stainless steel
Motor		
Output	(KW)	45
Voltage	(V)	380
Speed	(rpm)	3000
Weight	(Kg)	309

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(b) Control panel

Type		ZXW-1/5
Number		3 Sets
Manufacturer		Acheng Relay Factory
Dimension		600x1035mm^2

(3) Waste water storage pond equipment

(a) Pump

Type		Vertical Type
Number		6 Sets
Manufacturer		Tianjing Second Pump Plant
Capacity	(m^3/Hour)	100
Head	(m)	20
Speed	(rpm)	2900

Motor

Output	(KW)	11
Voltage	(V)	380
Speed	(rpm)	3000
Weight	(Kg)	117

(b) Agitating blower

Type		Rotary
Number		6 Sets
Manufacturer		Changsha Blower Plant
Capacity	(m^3/minute)	5.9

Material

Rotor	Carbon Steel
Casing	Carbon Steel
Agitating air pipe	Steel

CamScanner

(b) Control panel

Type		ZXW-1/5
Number		3 Sets
Manufacturer		Acheng Relay Factory
Dimension		600x1035mm^2

(3) Waste water storage pond equipment

(a) Pump

Type		Vertical Type
Number		6 Sets
Manufacturer		Tianjing Second Pump Plant
Capacity	(m^3/Hour)	100
Head	(m)	20
Speed	(rpm)	2900

Motor

Output	(KW)	11
Voltage	(V)	380
Speed	(rpm)	3000
Weight	(Kg)	117

(b) Agitating blower

Type		Rotary
Number		6 Sets
Manufacturer		Changsha Blower Plant
Capacity	(m^3/minute)	5.9

Material

Rotor		Carbon Steel
Casing		Carbon Steel
Agitating air pipe		Steel

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Motor

Output	(KW)	11
Voltage	(V)	380
Speed	(rpm)	1500
Weight	(Kg)	123

(4) Primary pH control pit

(a) pH Control system

Type	DH-103
Number	3
Manufacturer	Shanghai Second Analyse-Meter Works

(b) Level Control

Type	GSK
Number	3 Sets
Manufacturer	Haimen Plstics Plant

(c) Pit agitator

Type	YJ
Number	3 Sets
Manufacturer	Jiang Du Water Equipment Plant

Material

Rotor	Stainless steel
Casing	Stainless steel
Agitating propeller	Stainless steel

Motor

Output	(KW)	0.6
Voltage	(V)	380
Speed	(rpm)	1420
Weight	(Kg)	40

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(5) Final neutralizing pit equipment

(a) pH control system

Type		DH-103
Number		3 Sets
Manufacturer		Shanghai Second Analyse-Meter Works

(b) Level control

Type		GSK
Number		3 Sets
Manufacturer		Hai Men Plastics Plant

(c) Pit pump

Type		Vertical Type
Number		6 Sets
Manufacturer		TPW
Capacity	(m^3/Hour)	100
Head	(m)	20
Motor		
Power	(KW)	11
Voltage	(V)	380
Speed	(rpm)	3000
Weight	(Kg)	117

(d) Neutralizing pit agitator

Type	YJ
Number	3 Sets
Manufacturer	Jiang Du Water Equipment Plant
Material	
Rotor	Stainless steel
Casing	Stainless steel
Agitating propeller	Stainless steel

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Motor

Output	(KW)	0.6
Voltage	(V)	380
Speed	(rpm)	1420
Weight	(Kg)	40

(6) Chemical injection equipment

(a) NaOH unloading pump

Type		Outdoor
Number		6 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	13.1
Head	(m)	12
Speed	(rpm)	2960

Material

Casing		Stainless steel
Shaft		Stainless steel
Impeller		Stainless steel

Motor

Output	(KW)	2.2
Voltage	(V)	380
Speed	(rpm)	3000
Weight	(Kg)	25

(b) HCl unloading pump

Type		Outdoor
Number		6 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	13.1
Head	(m)	12
Speed	(rpm)	2960

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Material		
Casing		Stainless steel
Shaft		Stainless steel
Impeller		Stainless steel
Motor		
Output	(KW)	2.2
Voltage	(V)	380
Speed	(rpm)	3000
Weight	(Kg)	25
(c) Dilute HCl tank		
Type		Vertical cylinderical
Number		3 Sets
Manufacturer		Wu Xi Boiler Plant
Capacity	(m^3)	3
Diameter	(mm)	1512
Height	(mm)	2075
Material and lining		Mild steel, rubber
Weight	(Kg)	933
(d) HCl gas seal tank		
Type		Vertical
Number		3 Sets
Manufacturer		Field make
Capacity	(m^3)	0.25
Diameter	(mm)	512
Height	(mm)	1200
Material and lining		Mild steel, rubber
Weight	(Kg)	100

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(e) Dilute HCl dosing pump

Type		Outdoor
Number		6 Sets
Manufacturer		Chong Qing Pump Plant
Capacity	(m^3)	0.2
Head	(m)	160
Motor		
Output	(KW)	0.8
Voltage	(V)	380
Speed	(rpm)	
Material and lining		2Cr13
Weight	(Kg)	200

(f) Dilute HCl tank agitator

Type		Paddle
Number		3
Manufacturer		Jiang Du Water Equipment Plant
Material and lining		
Rotor		Stainless steel
Casing		Stainless steel
Agitating propeller		Stainless steel
Motor		
Output	(KW)	1
Voltage	(V)	380
Speed	(rpm)	1420
Weight	(Kg)	50

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(g) Dilute NaOH tank

Type		Vertical cylinderical
Number		3 Sets
Manufacturer		Wu Xi Boiler Plant
Capacity	(m^3)	3
Height	(mm)	2075
Diameter	(mm)	1512
Material and lining		Mild steel
Weight	(Kg)	850

(h) Dilute NaOH dosing pump

Type		Outdoor
Number		6 Sets
Manufacturer		Chong Quing Pump Plant
Capacity	(m^3/Hour)	0.2
Head	(m)	160
Motor		
Output	(KW)	0.8
Voltage	(V)	380
Speed	(rpm)	
Material and lining		2Cr13
Weight	(Kg)	200

(i) Dilute NaOH tank agitator

Type		Paddle
Number		3 Sets
Manufacturer		Jiang Du Water Equipment Plant

CamScanner

Material and lining

Rotor		Stainless steel
Casing		Stainless steel
Agitating propeller		Stainless steel

Motor

Output	(KW)	1
Voltage	(V)	380
Speed	(rpm)	1420
Weight	(Kg)	50

(j) Concentrated NaOH transfer pump

Type		Outdoor
Number		6 Sets
Manufacturer		Shenyang Pump Plant
Capacity	(m^3/Hour)	13.1
Head	(m)	12

Motor

Power	(KW)	2.2
Voltage	(V)	380
Speed	(rpm)	3000
Material and lining		Stainless steel
Weight	(Kg)	25

(k) Chemicals storage yard pit pump

Type		Submerged
Number		6 Sets
Manufacturer		Shang Hai Pump Plant
Capacity	(m^3/Hour)	15~25
Head	(m)	34.5~29.0

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Motor

Output	(KW)	7.5
Voltage	(V)	380
Speed	(rpm)	3000
Material and lining		Cast iron & stainless steel
Weight	(Kg)	196

(7) Control Unit System

(a) pH meter

Type	DH-103
Manufacturer	XI An Instrument Factory
pH detector	DH-103
pH indicator	4136 IH15
pH recorder	ER180
pH metering range and sense (pH)	0-14

(b) Flow integerating meter

Type		4136 IH15
Manufacturer		Xi An Instrument Factory
Flow detector		1151 DP
Flow indicator		4136 IH15
Flow integrating meter		5217
Flow metering range and sense	(m^3/Hour)	100

(c) Control panel for waste water treatment equipment

Type	KG
Number	3

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Manufacturer	Xi An Instrument Factory
Height x Width x Depth (mm)	2300 x 1100 x 900
(d) Painting	
(8) Piping	
(a) On ground piping	
Pipe material	Carbon steel
Size	Ø100~Ø500
Protection material for external surface	Asphalt jute
Protection material for internal surface	Rubber & Epoxy coating
(b) Underground piping	
Piping material	Carbon steel
Size	Ø100~Ø500
Protection material for external surface	Carbon steel
Protection material for internal surface	Asphalt jute
(9) Ladder, handrail, walkway, grating, manhole cover, pit cover etc.	
Material	Carbon steel
Total weight	Approx. 10T

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CHLORINATION EQUIPMENT

7. (1) Chlorination equipment

(a) Salt dissolving tank

Type		———
Number		3 Sets
Manufacturer		Field constructing
Capacity	(m^3)	~ 100
Dimensions	(m)	7x4x4
Material and lining		Pein forced concrete painted FRP

(b) Recirculation tank

Type		XHX-03
Number		3 Sets
Manufacturer		Wuhan Instrument Factory
Capacity	(m^3)	3
Diameter	(mm)	1600
Height	(mm)	2400
Material and lining		Rubber lined carbon steel

(c) Sodium hypochlorite storage tank

Type		CLX-60
Number		6 Sets
Manufacturer		Wuhan Instrument Factory
Capacity	(m^3)	10 - 30
Material and lining		Rubber lined Carbon steel

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(d) Salt transfer pump

Type		80F-24IA
Number		6 Sets
Manufacturer		Changsha Pump Factory
Capacity	(m^3/Hour)	54
Discharge pressure	(Kg/cm^2g)	3.8

Material

Casing		Stainless steel
Valve		Rubber lined Carbon steel

Motor

Output	(KW)	5.5
Voltage	(V)	380
Speed	(rpm)	2960
Weight	(Kg)	65

(e) Recirculation pump

Type		Horizontal
Number		6 Sets
Capacity	(m^3/Hour)	54
Discharge pressure	(Kg/cm^2g)	3.8

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Motor

Output	(KW)	10
Voltage	(V)	380
Speed	(rpm)	2960
Weight	(Kg)	95

(f) Sodium hypochlorite injection pump

Type		Horizontal
Number		6/3 Sets *
Manufacturer		
Capacity	(m^3/Hour)	0.63/12.5
Discharge pressure	(Kg/cm^2g)	5/8

Motor

Output	(KW)	0.75/5.5
Voltage	(V)	380
Speed	(rpm)	1390/2900
Weight	(Kg)	19/65

(g) Strainer

Number		6 Sets
Screen	(mesh)	40

* 6 sets of 0.63 m^3/h, $5kg/cm^2g$ for potable water and 3 sets of 12.5 m^3/h, 8 kg/cm^2g for circulating water

Material			
	Body		Rubber lined Carbon steel
	Screen		Stainless steel
	Basket		———
	Weight	(Kg)	~25
(h) Electrolyzer cell			
	Type		DJL-10
	Number		6 Sets
	Manufacturer		Wuhan Instrument Factory
	Capacity	(Kg/Hour)	10
Material			
	Anode		Titanium smeared with ruthenium
	Cathode		Titanium
	Service life	(years)	5
	Weight	(Kg)	1000
(i) Exhaust fan			
	Type		4-72 No.3
	Number		6 Sets
	Manufacturer		Shanghai Plastic Fittings Faactory
	Capacity	(m^3/minute)	28~52
Motor			
	Output	(KW)	1.5
	Voltage	(V)	380
	Speed	(rpm)	2900
	Weight	(Kg)	19

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(2)	Rectifier equipment		
	Type		CHF-3000/0~75
	Number		6 Sets
	Manufacturer		Shanghai Rectifier Factory
	Rating		3000A/75V
(a)	Cooling system		
	Rectifier		Water cooling
	Transformer		Oil cooling
(b)	AC power sorce		
	Frequency	(Hz)	50
	Voltage	(V)	380 ± 10%
	Phase		3
(c)	DC output		
	Rated Voltage	(V)	75
	Rated current	(A)	3000
	Regulating range	(A)	0~3000
(d)	Power factor		0.8
(e)	Efficiency		85%
(f)	Weight	(Kg)	500
(3)	Control panel		
	Type		KZG-10
	Number		3 Sets
	Manufacturer		Wuhan Instrument Factory
	Dimension	(mm)	1200x600x1800
	Weight	(Kg)	1200

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(4) Piping

	Material	Size
Injection pipe	ABS	Ø50~Ø80
Sodium hypochorite pipe	ABS	Ø50~Ø100
Spare nozzles and valves	ABS/PVC	Ø50
Drain pipe	ABS	Ø50

(5) Painting

Material	Antirot paint etc.

(6) Ladder and stage with grating

Pit cover and manhole cover.

Material	Rubber lined carbon steel
Total weight	1000kg

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8. YARD INSTRUMENT AIR SYSTEM

(1) Air Compressor

Type		Vertical belt driven wind cooling
Number		6 Sets
Manufacturer		Shenyang Gas Compressor Factory
Capacity	(m^3/Minute)	0.6
Cylinder number		
X diameter	(mm)	3 X 90
Speed	(rpm)	860
Stroke	(mm)	60
Suction pressure	(mm bar)	Atmosphere
Discharge pressure	(Kg/cm^2g)	7
Shaft horse power	(Kw)	4.5
Material		
Piston		Cast iron
Piston ring		4 FT-1
Crank shaft		Ductile iron
Valve seat		Carbon steel
Valve plate		VHB716 steel
Frame and cylinder		Cast iron
Motor		
Output	(Kw)	5.5
Voltage	(V)	380 $\pm$10%
Speed	(rpm)	1450
Weight		
Compressor	(Kg)	450
Complete	(Kg)	500

(2) Air receiver

Type		
Number		Vertical welded
Capacity	(m^3)	6 Sets
Design pressure	(Kg/cm^2g)	1.0
Height	(mm)	7
Material		~ 1600
		Carbon steel

(3) Air dryer

Type		Unheating regenerative
Number		6 Sets
Manufacturer		Shenyang Gas compressor Factory
Capacity	(m^3/minute)	1
Air pressure	(Kg/m^2g)	7
Dimension		
Height	(mm)	1800
Width	(mm)	1300
Depth	(mm)	800
Weight	(Kg)	641

(4) Control panel

Type		Self standing
Number		3 Sets
Dimension		
Height		300
Width		250
Depth		200

(5) Electric power source

Power	(Kw)	
Voltage	(V)	380
Phase		3

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9. PIPE SUPPORT AND STRUCTURAL STEEL FOR YARD PIPING

Support type		_____
Number		3 sets
Manufacturer		_____
Total length	(m)	_____
Support material		_____
Total weight	(Tons)	_____

Note: Data for steel pipe supports and structural steel for yard piping shall be submitted by the Contractor after design finalization to the Employer and the Engineer for approval.

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10. REPAIR ROOM INSTRUMENTS

10.1 MECHANICAL/ELECTRONIC INSTRUMENTS

	Type	Number	Manufacturer	Specification
(1) Dead weight Pressure gauge tester	YB-150	1	Xi An Instrument Factory	0～400kg/cm^2
(2) Dead weight pressure gauge tester	YB-150	1	"	0～100kg/cm^2
(3) Dead weight pressure gauge tester	YB-150	1	"	0～60kg/cm^2
(4) Dead weight pressure guage tester	YB-150	1	"	0～25kg/cm^2
(5) Standard pressure guage set	YB-150	2	"	-76cm Hg -250kg/cm^2
(6) Oxygen analyzer (Portable)	SB70-2	1	"	
(7) Tool set for mechanical instruments		5	"	
(8) Tool set for electrical instruments		5	"	

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		Type	Number	Manufacturer	Specification
(9)	Maintenance tool set		5		
(10)	pH cell checker	PHS-73A	2	Xi An Instrument Factory	
(11)	Digital manometer	YSM	1	"	0~20kg/cm^2
(12)	Digital manometer	"	1	"	0~0.4kg/c
(13)	Universal digital meter	P242	2	"	
(14)	Decade resistance box	ZX25-1	2	"	
(15)	Multi-pen recorder	3061	2	"	9 Channe
(16)	Portable DC V/A (Standard)	PA_3	2	"	
(17)	Voltage/Current (Standard)	MF14	2	"	
(18)	Pneumatic pressure (Digital)	YDS-01	2	"	0~1kg/cm^2
(19)	Revolution meter (Digital)	BZ-4	1	"	30-40000rpm
(20)	Revolution meter (Digital)	LZ-30	1	"	30-12000rpm
(21)	Potentio meter	UJ31	1	"	

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		Type	Number	Manufacturer	Specification
(22)	Wheatsone bridge	QS18	1	Xi An Instrument Factory	
(23)	H_2 gas leakage detector	RD-2059	1	"	
(24)	Vibration meter (Digital)		1	"	
(25)	Oil bath for thermometer tester	Yc	1	"	
(26)	Standard thermometer	LB-3	1	"	
(27)	Standard thermometer	BS	1	"	
(28)	Standard thermometer	SS	5	"	
(29)	Oscilloscope	SBE	1	"	
(30)	Oscilloscope	SB-14	1	"	
(31)	Thickness meter		1	"	
(32)	Thickness meter		1	"	
(33)	Pinhole and holding detector		1	"	
(34)	Electronic digital stop watch	DSB	1	"	

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	Type	Number	Manufacturer	Specification
(35) Soldering irons with very low leakage current	DL-1	2		
(36) Working table		1		
(37) Cupboard for instruments		4		
(38) Rack for spare parts		3		
(39) Cupboard for instruction booklets		2		
(40) Desk		3		
(41) Chair		5		

10.2 ELECTRICAL/ELECTRONIC INSTRUMENTS

(1) DC ammeter	C30-A	1 Set	Shanghai Electric Instrument Factory	0.3/0.75/1.5/3A
(2) DC ammeter	C31-A	1 Set	"	1.5/3/7.5/15/30
(3) DC voltmeter	C30-V	1 Set	"	3/15/150/300V
(4) DC voltmeter	C31-V	1 Set	"	30/75/150/300/600V
(5) DC ammeter and voltmeter (17 range)	C35-VA	2 Sets	"	1.5/3/7.5/15/30A 3/15/30/75/150/600

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		Type	Number	Manufacturer	Specification
(6)	AC ammeter	D26-A	3 Sets	"	0.5/1A
(7)	AC ammeter	D26-A	1 Set	"	5/10A
(8)	AC ammeter	D26-A	3 Sets	"	10/20A
(9)	AC voltmeter	T15	1 Set	Tianjin Electric Instrument Factory	30/60V
(10)	AC voltmeter	T15	3 Sets	"	75/150/300V
(11)	AC ammeter and voltmeter (13 range)	T32-AV	3 Sets	"	30~750mA 1.5~600V
(12)	Wattmeter (for 3 phase)	D19-W	1 Set	Beijing Electric Instrument Factory	0.5/10A, 150/300V
(13)	Frequency meter	D35-HZ	1 Set	Shanghani Electric Instrument Factory	45~65HZ
(14)	Shunt	FL 2	3 Sets	Guilin Electric Instrument Factory	100,300,500/75mV
(15)	Current transformer	HL-2	2 Sets	Harbin Instrument Factory	100/300/750/1500A
(16)	Potential transformer	HJ	2 Sets	"	3300/6600V
(17)	Noise level meter		1 Set		30~130 dB
(18)	Revolution meter	LZ-30	1 Set	Shanghai Revolution Meter Factory	0-20000rpm
(19)	Tester		3 Sets		
(20)	Auto megger	ZC25-2	2 Sets	Shanghai Megger Factory	0-250Mohm
(21)	Auto megger	ZC25-4	2 Sets	"	0-1000Mohm
(22)	Auto megger	ZC25	2 Sets	"	0~2000Mohm

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		Type	Number	Manufacturer	Specification
(39)	Digital multi meter	———	2 Sets	———	———
(40)	Photo condencer	———	1 Set	———	———
(41)	Syncroscope with photo-graphic attachment	SC-11	1 Set	Shanghai Electric Factory	———
(42)	DC voltmeter (Standard)	DZ-V	1 Set	Harbin Electric Factory	75/150/300V
(43)	Portable double bridge	QJ44	1 Set	SHETIF	0.00001~1Ω
(44)	Dial variable resistance	BC1	2 Sets	Shanghai Resistor Works	———
(45)	Rotary for WH (Standard)	DB4	1 Set	———	———
(46)	High voltage test set (for oil)	IJJ-2/60	1 Set	Beijing H.V. Tester Factory	2KVA,60/0.22KV

Note: Data about type, manufacturer and specification about missing equipments shall be submitted by the Contractor to Employer and the Engineer for approval.

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11. TRUCK CRANE

(1) Crane

Type		Full hydraulic
Number		Q2-32
Manufacturer		1 Set
Capacity	(Kgat m)	Changjiang Crane Works
		32000,9.5
Dimension		
Length	(mm)	12920
Width	(mm)	2600
Height	(mm)	3500
Weight (Gross)		
Total weight	(Kg)	32000
Front weight	(Kg)	_____
Rear weight	(Kg)	_____
Jib		
Long jib length	(mm)	_____
Short jib length	(mm)	_____
Elevation speed		_____
Boom		
Fully retraced length	(m)	9.5
Fully extended length	(m)	30
Extension speed		_____
Hoist		
Rope speed for main winch		
High speed	(m/minute)	5.87
Low speed	(m/minute)	0.3
Rope speed for auxiliary winch		
High speed	(m/minute)	_____
Low speed	(m/minute)	_____

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Swing speed	(rpm)	0-2.5
Hydraulic system		
Type of oil pump		ZBD-75 and ZBD-40
Hydraulic oil tank capacity	(litres)	440
Type of control valve		———
Type of safety devices		———
(2) Carrier		
Type		4 Cycle diesel engine
Number		1 Set
Manufacturer		Changjiang Crane Works
Speed	(Km/Hour)	55 max.
Engine		
Type		6135Q-1
Maximum output torque	(Kg-m/rpm)	80/1200-1400
Wheel base	(mm)	4800
Tread front	(mm)	2066
Tread rear	(mm)	2070
Turning radius	(mm)	———
Fuel tank capacity	(Litres)	———
No of Tires		
Front		4
Rear		4

Note: Data for missing items will be supplied by Contractor to the Employer and Engineer for approval.

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12. FORK LIFT TRUCK

Type		W613
Number		2 Sets
Manufacturer		Shanghai Port Machanical Works
Capacity	(Kg)	5000
Lifting height	(mm)	4000
Fork length	(mm)	1340
Turning radius	(mm)	4300
Driver		
Type		4 Cycle CA-10
Number		2 Sets
Rated output	(Ps/rpm)	95

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OVERHEAD CRANE FOR INTAKE PUMP STATION

(1)	Type		E.O.T.CRANE WITH HOOK
(2)	Number		1 Set
(3)	Manufacturer		Da Lian Crane Works
(4)	Capacity		
	Hoist	(Ton)	5
(5)	Span (centre to Centre rails)	(mm)	5800
(6)	Full load speed		
	Hoist	(m/minute)	4.5
	Trolley travel	(m/minute)	10
	Bridge travel	(m/minute)	20
(7)	Maximum lift of hook		
	Hoist	(mm)	12000
(8)	Motor		
	Hoist		
	Type		Wound-rotor type
	Output	(Kw)	7.5
	Voltage	(V)	380
	Speed	(rpm)	1000
	Trolley travel		
	Type		Wound-rotor type
	Output	(Kw)	2.2
	Voltage	(V)	380
	Speed	(rpm)	1000
	Bridge travel		
	Type		wound-rotor type

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	Output	(Kw)			7.5
	Voltage	(V)			380
	Speed	(rpm)			1000
(9)	Diameter of drum				
	Hoist	(mm)			500
(10)	Brake				
	Hoist				Magnetic type
	Trolley travel				"
	Bridge travel				"
(11)	Bridge type				Box-type grider
(12)	Hoisting wire size	(mm)			13.5
(13)	Wheel				
	Number		Bridge 4		Trolley 4
	Diameter	(mm)	500		350
	Maximum load (each wheel)	(Kg)	6200		1500
(14)	Trolley wire size	(mm^2)			3x25
(15)	Material				
	Bridge				Carbon steel
	Trolley				Carbon steel
	Drum				Cast Steel
	Hoisting rope				Carbon steel
	Trolley wire				Copper
(16)	Weight				
	Bridge	(Kg)			8800
	Trolley	(Kg)			1800
	Assembly	(Kg)			10600

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14. LABORATORY AND LABORATORY INSTRUMENTS

14.1 LABORATORY

14.1.1 LABORATORY FIXTURES

1) For fuel laboratory

	Type	Number	Dimension (LxWxH)	Specification
a)	Storage cupboard	5	900x400x1850	
b)	Wall table	4	2400x750x850	
c)	Drawer cupboard	NO		
d)	Drawer cupboard	NO		
e)	Corner unit	NO		
f)	Sink unit	1	1350x600x850	
g)	Sink unit	2	600x430x520	
h)	Center table	4	2600x750x850	
i)	Work table	1	3600x750x850	
j)	Dtaft Chamber	1	1200x900x2540	

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2) For analytical instrument room

	Type	Number	Dimension (LxWxH)	Specification
a) Storage cupboard		5	900x220/400x1850	
b) Storage cupboard		2	900x320x1850	
c) Wall table		2	3600x750x850	
d) Wall table		2	2400x750x850	
e) Drawer cupboard		NO		
f) Corner unit		NO		
g) Sink unit		1	1350x600x850	
h) Sink unit		2	600x430x520	
i) Viberation proof balance table		1	1800x750x850	
j) Center table		4	2600x750x850	
k) Office desk and chair		2		

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3) For storage room

	Type	Number	Dimension (LxWxH)	Specification
a) Storage cupboard		4	900x220/400x1850	
b) Storage cupboard		6	900x400x1850	
c) Storage cupboard		2	900x320x1850	

4) For water analysis room

a) Storage cupboard		4	900x320x1850	
b) Storage cupboard		5	900x220/400x1850	
c) Storage cupboard		4	900x400x1850	
d) Super shelf		NO		
e) Bottle cabinet		NO		
f) Wall table		3	3600x750x850	

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	Type	Number	Dimension (LxWxH)	Specification
g) Wall table		NO		
h) Drawer cupboard		NO		
i) Drawer cupboard		NO		
j) Drawer cupboard		NO		
k) Corner unit		NO		
l) Sink unit		1	1350x600x850	
m) Center table		2	2600x750x850	
n) Vibration proof balance table		1	1800x750x850	
o) Sink unit		1	600x430x530	
p) Sink unit		1	1100x750x200	
q) Draft Chamber		1	1200x900x2540	

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14.2. LABORATORY INSTRUMENTS

14.2.1 WATER ANALYSIS EQUIPMENT

1) Electrical Spectrophotometer

Type		Model 721
Number		1 Set
Manufacturer		Shanghai Third Analytical Instrument Factory
Power supply		AC220V, 50Hz
Stability		0.5A, 50Hz
Meter/Digital reading		Meter reading
Range		360-800nm
Accessories		1 set
Filters		Neutral and Pr-Nd filters
Test tubes		0.5 - 5cm
Dust covers		Yes
Spare lamps		10
Spare photoelectric cells		15
Dimensions		
Length	(mm)	490
Width	(mm)	375
Height	(mm)	200
Weight	(kg)	20

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2) Electrical spectrophotometer

Type		Model 751
Number		1 set
Manufacturer		Shanghai Third Analytical Instrument Factory
Power supply		AC220V, 50Hz
Stability		0.3A, 50Hz
Meter/Digital reading		Meter reading
Range		200 - 1000 nm
Accessories		1 set
Filters		Pr-Nd glass
Test tubes		Glass and quartz
Dust covers		———
Spare lamps		———
Spare photoelectric cells		———
Dimensions		
Length	(mm)	900
Width	(mm)	500
Height	(mm)	350
Weight	(kg)	70

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3) pH meter

Type	Model PHs-3
Number	2 Sets
Manufacturer	Shanghai Second Analytical Instrument Factory
Power supply	AC220V, 50Hz
Power consumption (Watts)	7.0
Meter/Digital reading	Digital display
Type of Calibration	———
Voltage stabilizing arrangement	Yes
Scope adjustment	220V $\pm$ 10%
Auto zero facility	No
Scale	
Type of scale	———
pH range	1~14
Accuracy	$\pm$ 0.01 pH
Repeatability	$\pm$ 0.01 pH
Input impedance (Megaohms)	More than 10^5

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Temperature compensator

Type		Manual location
Range	(^{o}C)	0 to 60
Dimensions		
Length	(mm)	270
Width	(mm)	250
Height	(mm)	90
Weight	(kg)	4
Accessories		1 set
Glass electrodes	(sets)	10
Reference electrodes	(sets)	———
Combination electrodes	(sets)	———

4) Conductivity meter

Type	Model DDS-11A
Number	2 sets
Manufacturer	Shanghai Second Analytical Instrument Factory
Power supply	AC 220V,50Hz
Power consumption (Watts)	$\leq$ 10

Range	us/cm	$0 - 10^5$
Accuracy	(%)	1.5
Type of measuring circuit		Conductimetric analysis
Cell constant compensation		No
Temperature compensation (^{o}C)		No
Conductivity cell	(us/cm)	$0 - 10^5$
Number of cells offered		9 pieces
Type		Model DJS-1, DJS-10
Cell constant		1, 10
Cell electrodes		
a) Material and plates		Pt
b) Area		Ø 12x160, Ø 9x125
Material of electrode		
Sheath of protective case		Pt
Temperature limitations (^{o}C)		10-36
Accessories	(set)	1
Dimensions		
Length	(mm)	222
Width	(mm)	160
Height	(mm)	75

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5) Drying oven

Type		D-603-III
Number		1 Set
Manufacturer		Dian Li Instrument Factory
Capacity	(m^3)	0.225
Temperature range	(^oC)	10 to 250
Operating sensitivity ($\pm$ ^oC of max.oven temp.)		$\pm$ 1
Operating uniformity ($\pm$ ^oC of max.oven temp.)		
Power supply		AC 220V, 50Hz
Power consumption (KW)		2.8
Construction		
Double walled		Yes
Insulation - glass wool		No
Type of air circulation		Blowing
No.of rust-resistant shelves		2
Accessories	(set)	1
Dimensions		
Length	(mm)	920
Width	(mm)	817
Height	(mm)	600
Weight	(kg)	$\sim$ 40

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6) Muffle furnace

Type		Model 5x-5-12
Number		2 Sets
Manufacturer		Shanghai Shiyan Electric Furnace Works
Power supply		AC 220V, 50Hz
Temperature range	(^{o}C)	Max. 1200
Furnace working volume	(Liters)	7.2
Furnace internal dimension		
Length	(mm)	300
Width	(mm)	200
Height	(mm)	120
Temperature indicator		Yes
Type		Model XCT-101
Temperature control accuracy		≤ 16 ^{o}C
Accessories	(set)	———

7) Magnetic stirrer

Type		Model 78-1
Number		1 set
Manufacturer		———
Stirring speed	(rpm)	50~2000
Stirring capacity	(ml)	200~800

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8) Water bath

Type		———
Number		1 set
Manufacturer		Beijing Xichen Medical Apparatus & Instrument Works
Capacity	(litres)	10
Dimensions		
Height	(mm)	220
Width	(mm)	~140
Maximum heating temperature	(^{o}C)	100
Temperature control accuracy	($\pm$ ^{o}C)	1.0
Temperature distribution accuracy	($\pm$ ^{o}C)	———
Number of openings		6
Accessories	(set)	1

9) Analytical balance (Direct reading)

Type		Model TG-328B
Number		1 set
Manufacturer		Shanghai Balance Equipment Works
Power supply		AC220V,50Hz
Capacity	(g)	200
Weighing range	(mg)	0.1 to 200,000

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Readability	(mg)	0.1
Pan		
Material		Stainless steel
Diameter	(mm)	75
Accessories	(set)	1

Top loading electronic balance

Type		Digital (Model TG-904)
Number		1 set
Manufacturer		Shang Yang Balance Equipment Works
Capacity	(g)	1000
Weighing range	(mg)	50 - 1000,000
Readability	(mg)	50
Pan		
Material		
Diameter	(mm)	100
Accessories	(set)	1
Power supply		AC220,50Hz

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11) Electric refrigerater

Type		Model LBJ2 - 6
Number		1 Set
Manufacturer		Beijing Electric Refrigeration Works
Capacity	(cu,cm)	200,000
Number of compartments		1
Number of shelves		3
Dimension		
Height	(mm)	1370
Width	(mm)	510
Depth	(mm)	610
Accessories	(set)	1
Power supply		AC220V, 50Hz

12) Shaker

Type		———
Number		1 set
Manufacturer		———
Shaking method		———

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Timer range	(min)	
Power supply		———
Accessories	(set)	———
		———

13) Hot plate

Type		Model BCG-1,8-4
Number		1 set
Manufacturer		Shanghai Shi Yan Electric Furnace Works
Shape		Rectangle
Size	(mm)	450x300x200
Heating element rating	(KW)	1.8
Power supply		AC220V, 50Hz
Range of temperature	(^{o}C)	———

14) Demineralizer

Number		1 set
Manufacturer		———
Capacity	(lit/hour)	———
Resin volume		
Cation	(liters)	———

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Anion	(liters)	
Accessories	(set)	

15) Jar tester

Type		
Number		1 set
Manufacturer		4332 Works
Power supply		AC220V,50Hz
Power consumption	(Watts)	

Stirrer paddles

Number		6
Material		Stainless steel
Maximum speed	(rpm)	60~500

Speed control

Method of speed control	Manual setting

Speed measuring device

Type	
Range	0 - 100 rpm
Accuracy	± 2%

Dimensions

Length	(mm)	930
Width	(mm)	330
Height	(mm)	600
Accessories	(set)	1

16) Filteration equipment

a) Filter holder

Type		
Number		3 sets
Manufacturer		
Filter holder size	(mm)	
Milipore filter		
Size	(mm)	
Pieces		
Accessories	(set)	

b) Mini pump

Type		2X - 0.5
Number		2 Sets
Manufacturer		Shanghai Vacuum Pump Works
Capacity	(lit/min)	30
Accessories	(set)	

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17) Indigo carmine apparatus

Type		———
Number		1 set
Manufacturer		———
Measuring range	(P p b)	———
Accessories		———

14.2.2 FUEL OIL ANALYSIS EQUIPMENT

1) Flash point tester

Type		Model SY3205-66
Number		1 set
Manufacturer		Shanghai Oil Machine Factory
Temperature range	(^{o}C)	Room temperature -200
Power supply		
Voltage	(V)	AC 220
Frequency	(Hz)	50
Phase		3
Dimensions		
Length	(mm)	300
Breadth	(mm)	270
Height	(mm)	260
Accessories	(set)	———

2) Specific gravity hydrometers

Type	———
Manufacturer	Shenyan Glass Instrument Works

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Range in degree		0.6 - 2.0
Maximum possible error		———
Maximum overall length	(mm)	———
Hydrometer jars		
a) Overall height	(mm)	———
b) Diameter	(mm)	———
Accessories	(set)	1

3) Viscosity apparatus

a) Viscometer bath		
Number		1 set
Manufacturer		Shanghai Oil Machine Manufactory
Temperature range	(^{o}C)	20, 40, 50, 80, 100
Tank capacity	(liters)	7.9
Agitating method		Agitator
Accessories		
Standard	(set)	———
Stop watch	(set)	1

4) Four point apparatus

Type	SYP 1008-1
Number	1 set
Manufacturer	Shanghai Oil Machine Manufactory
Accessories	

Thermometers

Cockring gaskets for test jar — 12 sets

Cork discs for test — ——

bath pockets — ——

Standard test jars — ——

5) Conradson carbon residue apparatus

Type — SYP 1011

Number — 1 set

Manufacturer — Shanghai Oil Machine Manufactory

Accessories — 1 set

6) Water content measuring apparatus

Type — YS - 3

Number — 1 set

Manufacturer — Jiang Shu Electric Analytical Instrument Works

Conical flask volume (1) — ——

Accessories — ——

7) Centrifuges

Type — Model F-430

Number		1 set
Manufacturer		Shanghai Shi Yan Electric Furnace Works
Plate material		Metal
Heater rating	(KW)	1.8
Power supply		
Voltage	(V)	AC 220V
Frequency	(Hz)	50
Weight	(kg)	
Maximum temperature	(^{o}C)	300
Temperature range	(^{o}C)	Room temperature -300
Temperature accuracy	(^{o}C)	
Accessories		1 set
Dimensions		
Length	(mm)	450
Width	(mm)	300

9) Electric refrigerator

Type		
Number		1 set
Manufacturer		
Capacity	(cu.cm)	
Number of compartments		

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Number of shelves		
Accessories	(set)	———
Dimensions		———
Height	(mm)	
Width	(mm)	———
Depth	(mm)	———
		———

10) Thermostatic water bath

Type		Model DL-501
Number		1 set
Manufacturer		Shanghai Shi Yan Electric Furnace Works
Capacity		Ø 328x213
Temperature range	(^{o}C)	10 - 95
Heater rating	(Watts)	1500
Accessories		———

11) Muffle furnace

Type	Model SX-5-12
Number	1 set
Manufacturer	Shanghai Shi Yan Electric Furnace Works

12) Drying oven

Type	Model 603-III
Number	1 set
Manufacturer	Shanghai Dian li Instrument Works

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Capacity	(m^3)	0.250
Temperature range	(^oC)	10 - 250
Operating sensitivity	($\pm$ ^oC of max. oven temp.)	$\pm$ 1
Operating uniformity	($\pm$ ^oC of max. oven temp.)	$\pm$ 1
Power consumption	(KW)	2.8
Construction		
Double walled		Yes
Insulation glass wool		No
Accessories		
Dimensions		
Length	(mm)	920
Width	(mm)	817
Height	(mm)	600
Weight	(kg)	
Furnace working volume	(lit.)	
Furnace internal dimensions		
Length	(mm)	
Width	(mm)	
Height	(mm)	

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13) General purpose drying oven

Type		Model DL202-II
Number		1 set
Manufacturer		Shanghai Dian Li Instrument Works
Working chamber	(mm^3)	350x450x550
Temperature	(^oC)	10 - 200
Power consumption	(KW)	2.4
Dimensions		
Width	(mm)	865
Height	(mm)	600

14) Sulfur content equipment

Number	1 set
Manufacturer	Shang Shu Electric Analytical Instrument Works
Measuring method	———
Furnace type	———
Furnace tube	———
Thermo meter	———
Accessories	———

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14.2.3 ANALYTICAL INSTRUMENTS

1) Calorimeter

Type		MCT - B
Number		2 sets
Manufacturer		4435 Works
Bomb		
Capacity	(ml)	3500
Type		GR - 3500
Material of construction		
a) Cup and cap		———
b) Union nut		———
Internal diameter	(mm)	———
Thickness of wall/top/ bottom	(mm)	———
Calorimeter vessel		
Capacity	(ml)	———
Diameter	(mm)	———
Height	(mm)	———

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Water jacket		
Capacity	(ml)	_____
Type		_____
Material		_____
Stirrer		
Type		_____
Speed	(rpm)	_____
Dimension		
Diameter	(mm)	_____
Depth	(mm)	_____
Accessories		_____

2) Analytical balance (Direct reading)

Type		Direct reading (Model TG-328B)
Number		1 set
Manufacturer		Shanghai Balance Equipment Works
Capacity	(g)	200
Total weighing range	(mg)	0.1 - 200,000
Readability	(mg)	0.1
Precision	(± mg)	± 0.1

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Pan		
Material		Stainless steel
Diameter	(mm)	75
Beam material		Stainless steel
Accessories		1 set
Spare bulb		Yes
Brush		Yes
Calibration weights		Yes
Plastic dust cover		Yes

3) Analytical balance (Direct reading)

Type		Direct reading (Model TG-128)
Number		1 set
Manufacturer		Shanghai Balance Equipment Works
Capacity	(g)	200
Total weighing range	(mg)	0.02-200,000
Readability	(mg)	0.02
Precision	(± mg)	0.02
Pan		
Material		Stainless steel
Diameter	(mm)	75
Beam material		Stainless steel

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Accessories		1 set
Spare bulb		Yes
Brush		Yes
Calibration weights		Yes
Plastic dust covers		Yes

4) Top loading electric balance

Type		Digital (Model TG904)
Number		1 set
Manufacturer		Shen Yang Balance Equipment Works
Capacity	(kg)	1.0
Total weighing range	(mg)	50 - 1000,000
Readability	(mg)	50
Precision	(± mg)	50
Pan		
Material		
Diameter	(mm)	100
Accessories		1 set

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5) Atomic absorption flame spectrophotometer

Type	Model GFU-202
Number	1 set
Manufacturer	Beijing Analytical Instrument Factory
Wave length range	1900～8600 A^{o}
Wave length accuracy	5 A^{o}
Scanning speed	100, 1000 A^{o}/min
Time constant	0.05, 1 sec
Recorder output range	0-0.1,0-0.2,0-0.5, 0-2V, 0-1,0-2,0-5,0-10,0-20,0-50mv
Type of data presentation	Display,print
Burner	
Type of flame	Air-C_2H_2,N_2O-C_2H_2
Method of burner lighting	Manual
CPU with CRT unit	Cpu(Z80,display print)
Cathodic lamps	8
Accessories	1 set

6) Compressor

Type	Model WM-2
Number	1 set

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Manufacturer		Tian Jin Second Medical Apparatus & Instruments Works
Exhaust velocity	(lit/min)	30
Voltage	(V)	220V

7) Elementary analyzer

Type	TQ - 3
Number	1 set
Manufacturer	HeBi Instrument Factory
Indicatior	———
Capability of analysis	———
Timer	———
Measuring range	
Carbon content	0∼100%
Hydrogen content	0∼100%
Nitrogen content	———

8) Orsat apparatus

Type	———
Number	2 sets
Manufacturer	———
Absorption pipettes	———
Number of pipettes	———

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Burette

a) Number

b) Capacity (inclusive of bulb at top) (ml) _____

c) Graduation in lower part (ml) _____

d) Smallest subdivision (ml) _____

Levelling bottle capacity (ml) _____

Dimensions of case

Length (mm) _____

Breadth (mm) _____

Height (mm) _____

9) Gas/liquid Chromatographic apparatus

Type		Model 103
Number		1 Set
Manufacturer		Shanghai Analytical Instrument Factory
Heater Rating	(KW)	~1500
Column temperature	(^{o}C)	Room Temperature ~ 400
Gas flow	(ml/min)	5~50
Sample volume		
Liquids	(ul)	_____
Gases	(ml)	2
Detection limit	(g)	_____
Accessories		_____

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Dimensions

Length	(mm)	≥ 1500
Width	(mm)	≥ 600
Height	(mm)	≥ 600
Weight	(kg)	

2.4 FLUE GAS ANALYZER

1) No_x So_x O_2 analyzer

Type	KLS-406, HGS-80
Number	1 Set
Manufacturer	Xian Instrument Factory

Measuring range

So_x (ppm)	0 to 1.0
No_x (ppm)	0 to 5
O_2 (%)	0 to 10

Response

No_x O_2	0.02 ppm
So_x (sec)	
Accuracy (± %)	4,3
Standard gas	

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2) Dust measuring equipment

Number		1 set
Manufacturer		
Suction pipe		
Material		
Size	(mm)	
Dust measuring equipment		
Gas meter		
Accessories		

3) Flow velocity measuring equipment

Type	
Number	1 set
Manufacturer	
Inclined manometer	

4) Sulfur dioxide measuring equipment

Type	KLS
Number	1 set
Manufacturer	Xian Instrument Factory
Suction pump	

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Sampling tube

Material

Gas meter

Accessories

5) Nitrogen oxides measuring equipment

Type	HGS
Number	1 set
Manufacturer	Xian Instrument Factory
Suction pump	
Vaccum monitor	
Accessories	

2.5 APPARATUS LIST

1) Volumetric flasks

50 ml	10
100 ml	75
250 ml	25
500 ml	25
1000 ml	20

2) Measuring pipettes

1 ml	20
2 ml	20
5 ml	20
10 ml	20
20 ml	10
25 ml	10

3) Erlenmayer flasks with plug

50 ml	30
100 ml	50
250 ml	100
300 ml	50
500 ml	50

4) Measuring hole pipettes

5 ml	10
10 ml	10
20 ml	10
25 ml	10
50 ml	10

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5) Beakers

50 ml	50
100 ml	100
200 ml	100
250 ml	100
500 ml	50
1000 ml	25
2000 ml	25

6) Measuring cylinders

10 ml	20
25 ml	20
50 ml	20
100 ml	30
250 ml	10
500 ml	10
1000 ml	20

7) Nickel crucibles

50 ml	20
100 ml	20

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500 ml	10
1000 ml	5
5 l	5

Narrow-mouthed

250 ml	30
500 ml	10
1000 ml	10

b) White

Wide-mouthed

250 ml	30
500 ml	10
1000 ml	10
5 l	5
10 l	5

Narrow-mouthed

250 ml	30
500 ml	10
1000 ml	10

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11) Distillation apparatus	
(Pyrex glass with condenser)	5
12) BOD bottles with cap	
Clear 200 ml	20
Clear 300 ml	20
13) Washing bottles, polyethylene	
500 ml	20
1000 ml	20
14) Bottles, polyethylene	
Amber 500 ml	50
Amber 1000 ml	50
Clear 500 ml	50
Clear 1000 ml	50
15) Winkler flasks	
100 ml	NO
300 ml	NO
500 ml	NO
16) Separate funnels	
250 ml	15
500 ml	15
1000 ml	15

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17) Nessler tube

50 ml	20
100 ml	20

18) Flasks (Flat bottom)

250 ml	20
500 ml	10
1000 ml	10

19) Plastic squeeze bottles

500 ml	10
1000 ml	10

20) Clamps	30
21) Support clamps (ring type)	30
22) Triangles (nickel-chromium wire slica covered)	NO

23) Bottles (Polyethylene)
(with friction fitted cap to protect contents)

500 ml	NO
1000 ml	NO

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24)	Spatulas (Stainless steel)		20
25)	Desiccators		
	300 mm ϕ		5
26)	Burette stand (with 30 supports)		5
27)	Tripod		10
28)	Wire squares (with asbestos centers)		
	200 mm		40
29)	Petri dish		
	90 x 20 mm		50
30)	pH test paper		
	Universal (9 mm)		30
31)	Filter paper		
	Black band (9 cm)	(pcs)	NO
	Blue band (9 cm)	(")	NO
	White band (9 cm)	(")	90
	Black band (11 cm)	(")	NO
	Blue band (11 cm)	(")	NO
	White bank (11 cm)	(")	90

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32) Filter (used for suspended solids)

(pcs) NO

33) Millipore filter (pcs) 200

34) Vinyl tube

5 x 7 mm (m) NO

10 x 10 mm (m) NO

20 x 28 mm (m) NO

35) Stop cock

Straight bore 8 mm 20

Three-way 8 mm NO

36) Three-prong grip clamp

50 mm NO

100 mm NO

37) Filter papers

Black band NO

Blue band NO

White band NO

Filter paper (normal) (boxes) NO

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38) pH test paper (roll type) (sets) 5

39) Beckman thermometer (sets) 5

40) pH buffer powder

pH 7 (sets) 10

pH 9 (sets) 10

41) Mortars with pestles

8 cm 1

15 cm 2

20 cm 1

42) Porcelain capsules

3 cm 20

4 cm 20

5 cm 20

43) Glass funnels (with groove)

8 cm 15

10 cm 15

15 cm 15

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44) Plastic funnels

4 cm		10
8 cm		10
10 cm		10

45) Watch glasses

10 cm		25
12 cm		25
15 cm		25

46) Glass rod

0.5 cm	(kg)	2
0.7 cm	(kg)	2

47) Glass tubing

0.5 cm	(kg)	2
0.7 cm	(kg)	2

48) Rubber tubing

0.5 cm	(m)	20
1.0 cm	(m)	20
2.0 cm	(m)	20

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49)	Thermometer (mercury)	
	$100^{o}C$	30
	$250^{o}C$	10
50)	Bunsen burner	10
51)	Tube bolders	4
52)	Test tubes	250
53)	Crucible tongs (nickel)	5
54)	Separating funnels (globe shaped, with stopper at bottom)	
	250 ml	10
	500 ml	10
	1000 ml	10
55)	Cork borers (set)	1
56)	Measuring cylinder with cap	
	50 ml	12
	100 ml	12
57)	Bottle droppers	20
	25 ml	20
	50 ml	

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58) Teflon beakers

200 ml — NO

59) Pipette holder — 2

60) Pincette — 20

61) Pinch cock — 100

62) Carboy (Screw neck with spigot, polyethylene)

25 1 — 4

63) Paper (industrial absorbent tissues, soft, white, non-abrasive, non-linting, for cleaning spectrophotometer cells)

Size 10x15 cm — 50

64) Centrifuge tubes with stopper, conical shape 10 ml with measure — 10

65) Dishes (evaporating type, round bottom)

100 mm — 10

66) Dishes (culture)

90 mm — 50

67) Stopcocks — NO

Straight bore 8 mm — NO

Three-way, T bore 8 mm

68) Clamps (versatile, three prong grips)

50 mm NO

100 mm NO

69) Jack (laboratory stainless steel 200mm x 200mm) NO

70) Electric heater (1200 W, heat control over entire range) NO

71) Platinum plate

Number 1

Capacity (ml) 100

72) Platinum pot

Number (set) 1 with cover

Capacity (ml) 30

73) Sampler

Number (set) NO

Type

Capacity (ml)

Accessories (set)

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14.2.6 REAGENTS LIST

1)	Sulfuric acid	(1)	
2)	Phenol phthalein	(g)	20(GR)
3)	Ethyl alcohol	(1)	50(HB)
4)	Methyl orange	(g)	20 (GR)
5)	Hydrochloric acid	(1)	50 (HB)
6)	Strontium chloride	(g)	20 (AR)
7)	Barium Chloride	(g)	100 (AR)
8)	Sodium hydroxide	(kg)	1000 (GR)
9)	Potassium chromate	(kg)	5 (GR)
10)	Silver nitrate	(kg)	2 (AR)
11)	Sodium Chloride	(kg)	2 (GR)
12)	Mercuric nitrate	(g)	4 (GR)
13)	Nitric acid	(1)	200(GR)
14)	Diphenyl carbazone	(g)	10 (GR)
15)	Bromophenol blue	(g)	100(AR)
16)	Ammonium oxalate	(kg)	100(HB)
17)	Ammonium hydroxide	(1)	2 (AR)
18)	Potassium permanganate	(kg)	30 (AR)
19)	Sodium thiosulfate Anhydrous	(g)	1(GR)
			5000 (AR)

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20)	Sodium thiosulfate	(kg)	1(GR)
21)	Starch	(kg)	1(AR)
22)	Sodium sulfide	(kg)	1(AR)
23)	Potassium sodium tartrate	(kg)	3(AR)
24)	Disodium EDTA	(kg)	4 (AR)
25)	Magnesium chloride	(kg)	1 (CP)
26)	Ammonium chloride	(kg)	2 (GR)
27)	Eriochrome black T	(g)	NO
28)	Sodium carbonate	(kg)	2(GR)
29)	Methyl alcohol	(1)	10(AR)
30)	Calcium carbonate	(kg)	1(AR)
31)	Methyl red	(g)	25(HB)
32)	P-Dimethyl amino benzaldehyde	(g)	NO
33)	Hydrazine dihydrochloride	(g)	500(AR)
34)	Glycerin	(1)	3(AR)
35)	Potassium iodide	(kg)	2(AR)
36)	Indigo carmine	(g)	100(BS)
37)	Potassium hydroxide	(kg)	10(AR)
38)	Dextrose	(g)	500
39)	Cobalt chloride hexa hydrate	(g)	500(AR)
40)	Ferric III chloride	(kg)	1(CP)

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41)	Copper sulfate	(kg)	
42)	Sodium silicate	(g)	1(GR)
43)	Buffer table for hardness determination with EDTA		500(AR)
44)	Ammonium acetate	(kg)	NO
45)	Acetic acid	(l)	4 (AR)
46)	Cango red	(g)	10(AR)
47)	Chloroform	(l)	100(HB)
48)	Cupper (metal)	(g)	2(AR)
49)	Sodium citrate	(kg)	20(AR)
50)	Sodium acetate	(kg)	2(AR)
51)	1-Amino 2-napthol 4-Sulphonic acid	(kg)	5(AR)
52)	Sodium sulfite anhydrous	(kg)	1(AR)
53)	Sodium pyrosulfite	(kg)	2(AR)
54)	Ammonium meta vanadate	(kg)	NO
55)	Potassium mono phosphate	(kg)	1(CP)
56)	Tin chloride	(kg)	2(AR)
57)	Sodium chromate	(kg)	2(CP)
58)	Oxalic acid	(kg)	2(CP)
59)	Potassium hydrogen phthalate	(kg)	4(AR)
			2(AR)

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60)	Disodium phosphate	(kg)	2 (AR)
61)	Hydro fluoric acid	(kg)	0.5(AR)
62)	Perchloric acid	(1)	1(AR)
63)	Isopropyl alcohol	(1)	20(CP)
64)	N-Hexyl alcohol	(1)	20 (CP)
65)	Iso-amylalcohol	(1)	10(AR)
66)	Baso-phenontroline	(g)	10(AR)
67)	Ortephenan throline	(g)	NO
68)	Iron ammonium sulfate	(kg)	1(AR)
69)	Aluminium nitrate	(kg)	1(AR)
70)	Ammonium thiocyanaide	(kg)	NO
71)	Potassium chloride	(kg)	2(AR)
72)	Bromocresol green	(g)	NO
73)	Thymol blue	(g)	100(HB)
74)	Kaolin	(kg)	1(AR)
75)	Zinc (metal)	(kg)	NO
76)	Zinc chloride	(kg)	1(AR)
77)	NN-Indicator	(g)	NO
78)	Potassium sulfate	(kg)	2(AR)
79)	Hydroxylamine hydrochloride	(kg)	2(AR)
80)	Maganium sulfate	(kg)	2(CP)

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81)	Potassium iodate	(kg)	1 (GR)
82)	Sodium hydrocarbonate	(kg)	1 (AR)
83)	Sodium azide	(g)	500(CP)
84)	Barium chloride	(kg)	NO
85)	Ferric ammonium sulfate	(kg)	NO
86)	Potassium thiocyanate	(kg)	1(CP)
87)	Bromothymol blue	(g)	100(HB)
88)	Calcium chloride	(kg)	1 (AR)
89)	Barium chromate	(kg)	NO
90)	Tartaric acid	(kg)	1 (AR)
91)	Mercuric chloride	(kg)	1(GR)
92)	Zinc sulfate	(kg)	1(AR)
93)	Iodine	(kg)	NO
94)	Basocaproin	(g)	10(AR)
95)	Zincon	(g)	10(AR)
96)	Xylenol orange	(g)	10(HB)
97)	Iso-propylacohol	(l)	NO
98)	Ammonium molybdate	(kg)	5(AR)
99)	Sulfosalicylic acid	(g)	500(AR)
100)	Ammonium persulfate	(g)	550(AR)

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101)	Ammonium citrate	(kg)	2(AR)
102)	Dimethylglyoxime	(kg)	NO
103)	Ammonium nickelsulfate	(kg)	NO
104)	Silver sulfate	(kg)	2(AR)
105)	Sodium oxalate	(kg)	0.5(AR)
106)	Sodium chlorate	(ml)	NO
107)	Aluminium sulfate	(g)	500(CP)
108)	Normal hexane	(1)	10(CP)
109)	Para-phenylendiamine	(g)	100(AR)
110)	Aniline	(1)	1(CP)
111)	a-naphthylamine	(g)	500(AR)
112)	Zinc (powder)	(kg)	1(AR)
113)	Sodium nitrite	(kg)	1(GR)
114)	Xylole	(1)	NO
115)	Hydroperoxide	(1)	5(GR)
116)	Sulfamic acid	(g)	25(CP)
117)	Methylene blue	(g)	100(HB)
118)	Benzoic acid (for calory test)	(g)	200(AR)
119)	Toluene	(1)	5(AR)
120)	Para - rosaniline hydrochloride	(g)	NO

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121)	Formalin	(l)	1(AR)
122)	Potassium hydrogen phtholate	(g)	500(GR)
123)	Borax	(g)	500(AR)
124)	Sodium bromide	(g)	500(AR)
125)	Methyl isolbutyl ketone	(kg)	NO
126)	Silver chloride	(kg)	1(AR)
127)	N.A.N.A.	(mg)	NO
128)	Lanthanum (III) oxide	(g)	500(AR)
129)	Magnesium oxide	(g)	500(CP)
130)	Fluorescein-Na	(g)	500(CP)
131)	Sodium acetate (Trihydrate)	(g)	500(AR)
132)	Ammonium molybolate	(kg)	4(AR)
133)	Sodium hydrogensulfate	(kg)	NO
134)	Phenol	(g)	500(AR)
135)	Acetone	(kg)	2(AR)
136)	Cuprizone	(g)	NO
137)	Triethanolamine	(g)	500(AR)
138)	D.D.C	(g)	10(AR)
139)	T.P.T.Z.	(g)	NO
140)	Nitrobenzene	(kg)	1(AR)

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141)	Sodium perchlorate	(kg)	1 (CP)
142)	Sulfanilic acid	(g)	NO
143)	3.3-Dimethylbenzidine	(g)	NO
144)	Potassium dichromate	(g)	500(GR)
145)	Sodium phrophosphate	(g)	500(AR)
146)	Strontium chloride	(g)	NO
147)	Brucine	(g)	NO
148)	2.6 Naphthalenediamine	(g)	100(AR)
149)	N.N- Dimethyl-P-phenylenediamine	(g)	NO
150)	Calcium standard solution	(g)	NO
151)	Cadomium standard solution	(g)	NO
152)	Copper standard solution	(g)	NO
153)	Iron standard solution	(g)	NO
154)	Magnesium standard solution	(g)	NO
155)	Maganese standard solution	(g)	NO
156)	Sodium standard solution	(g)	NO
157)	Zinc standard solution	(g)	NO
158)	Aluminium standard solution	(g)	NO
159)	Vandium standard solution	(g)	NO
160)	Nickel standard solution	(g)	NO
161)	Silicon standard solution	(g)	NO
162)	Lead standard solution	(g)	NO
163)	Molybdenum standard solution	(g)	NO
164)	Chromium standard solution	(g)	NO
165)	Tin standard solution	(g)	NO
166)	Sodium Chloride	(g)	NO
167)	Sulfuric acid fuming	(l)	

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GENERATOR AND ELECTRICAL EQUIPMENT

1. GENERATOR EQUIPMENT

1.1 GENERATOR

(1)	Type		QFSN-210-2
(2)	Number		3 Sets
(3)	Manufacturer		HEMW
(4)	Capacity	(KVA)	247000
(5)	Rated frequency	(Hz)	50
(6)	Rated voltage	(KV)	15.75±5%
(7)	Rated current	(KA)	9.056
(8)	Speed	(rpm)	3000
(9)	Power factor		0.85
(10)	Field voltage (No load)	(V)	169
(11)	Field voltage (Peak load 0.85 p.f)	(V)	470
(12)	Field current (Peak load 0.85 p.f)	(A)	1830
(13)	Class of insulation		
	Stator		F
	Rotor		F
(14)	Phase		3
(15)	Number of poles		2
(16)	Connection		2-Y
(17)	Cooling system		H_2o-H_2-H_2
(18)	Hydrogen gas pressure	(kg/cm^2g)	3
(19)	Hydrogen gas consumption	(m^3/day)	14.6
(20)	Cooling water pressure	(kg/cm^2g)	2

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(21)	Over load operation time at 0.85 p.factor		
	105%	(hours)	Continuoue
	110%	(hours)	1/4
(22)	Short circuit ratio		≥0.5
(23)	GD^2 effect	(kgm^2)	23000
(24)	Dielectric strength		
	Value of withstand voltage (Value for one minute)		
	Stator	(KV)	34.5
	Rotor	(KV)	4.7
(25)	Negative phase sequence capability	(I_2^2t)	8
(26)	Influence of speed and voltage variation		
	Frequency (Speed) variation	(%)	± 2
	Voltage variation	(%)	± 5
	Voltage regulation	(%)	cosØ=1.0 at 1.0 pf 33 cosØ=0.85 at 0.85 pf 38
(27)	Critical speed	(rpm)	1st order 1120/1260 2nd order 3353/3494
(28)	Generator voltage wave shape (% or less)		≤ 5
(29)	Temperature		
	Standard ambient temperature	(^oC)	≤ 50
	Stator winding	(^oC)	120
	Rotor winding	(^oC)	120
	Collector ring	(^oC)	120

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(30) Reactance and time constants (per unit values of the rated capacity and rated voltage base)

		Saturation	Non-saturation
Synchronous reactance	Xd	183.2%	203.5%
Quadrature-axis reactance	Xq	165.0%	———
Direct-axis transient rectance	Xd'	21.9%	24.3%
Direct-axis subtransient reactance	Xd"	13.3%	14.8%
Quadrature-axis transient reactance	Xq'	19.7%	———
Quadrature-axis subtransient reactance	Xq"	12.0%	———
Positive Phase sequence reactance	X_1	———	———
Negative phase sequence reactance	X_2	16.2%	18.0%
Zero Phase sequence reactance	X_0	7.34%	8.15%
Open-circuit time constant Tdo'(sec)			6.6
Transient short circuit time constant Td'(sec)			0.8
Subtransient short circuit time constant Td"(sec)			0.1
Armature time constant Ta (sec)			0.25

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(31) *Efficiency (at rated condition)*

Load (%)	100	75	50	25
P.F 1.0	0.99	0.989	0.988	0.98
P.F 0.85	0.9865	0.987	0.9859	0.979

(32) Generator losses
(at rated condition)

Core loss	(KW)	318
Friction loss	(KW)	202.6
I^2R loss	(KW)	541
Excitation loss	(KW)	730
Total loss	(KW)	2864.6

Load	(%)	100	75	50	25
Core loss	(KW)	318	318	318	318
Friction loss	(KW)	202.6	201.3	200	198
I^2R loss	(KW)	541	304	135	33.8
Excitation loss	(KW)	730	490	307	179
Windage loss	(KW)	351	264.4	213.2	177.4
Bearing loss	(KW)	182	182	182	182
Stray loss	(KW)	540	315	140	36
Total loss	(KW)	2864.6	2074.7	1495.2	1124.2

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(33) Generator bushing

Type			Long porcelain bushing (straight out)
Number			6
Insulation level	(BIL)	(KV)	Z 150
Current	(A)		9056

(34) Bushing type current transformer

		For metering	For relaying	For AVR
CT ratio		12000/5	12000/5	12000/5
Number		6	15	3
Burden	(VA)	60	60	60
Accuracy class		0.2(3),0.5(3)	5P	0.5
Over current strength		40	40	40

(35) Weight of generator

Stator	(Tons)	186
Rotor	(Tons)	44.2

(36) Dimension

Stator outside dimension	(m)	L=7.18 H=0.8 D=4.07
Rotor diameter and length	(m)	D=1.01 L=10.8
Airgap between rotor and stator	(mm)	∫=70
Space required for withdrawing rotor	(m)	10.9

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(37) Exciter

Type		Main exciter	Pilot exciter
		JL=1165-4	TFY-46-5a
Number		3	3
Manufacturer		HEMW	HEMW
Method of excitation		A.C. Exciter	A.C. Exciter
Class of rating		Continuous	
Output	(KW)	1165	46
Voltage	(V)	431	161/93
Continuous current	(A)	1562	165/285.8
Short time current	(A)	3124	
Power factor		0.91	0.875
Frequency	(Hz)	100	500

(38) H_2 gas and CO_2 gas in the generator

Minimum H_2 gas purity	(%)	// 95
Normal H_2 gas purity	(%)	// 97
Gas volume	(m^3)	73
Total gas capacity (at rated pressure)	(Nm^3)	292
Total gas capacity (at minimum pressure)	(Nm^3)	84
CO_2 gas capacity for an air exception	(Nm^3)	250~350
H_2 gas capacity for CO_2 gas exception	(Nm^3)	160~240
CO_2 gas capacity for H_2 gas exception	(Nm^3)	160~240
Circulating gas capacity	(Nm^3/minute)	2100
Quantity of used cooling water	(^oC) at	42
	(m^3/minute)	~ 6.7

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Outlet temperature of used cooling water (^{o}C)		45.5-47
H_2 gas consumption (including vessel, piping etc)		
At minimum pressure	(Nm^3/day)	2 (generator only)
At normal pressure	(Nm^3/day)	14.6(generator only)
Quantity of sealing oil flow		
Quantity of sealing oil flow (at oil inlet temperature)	(^{o}C)	45
At minimum pressure	(m^3/minute)	H_2 side 0.04 air side 0.065 (both ends)
At rated pressure	(m^3/minute)	H_2 side 0.04 air side 0.15
Quantity of bearing oil flow		
Quantity of bearing oil (at oil inlet temperature)	(^{o}C)	$\leqslant$ 45
	(m^3/minute)	1
Outlet temperature of the bearing oil	(^{o}C)	$\leqslant$ 65
(39) H_2 gas generating equipment		
H_2 gas generator		
Type		Package Electrolytic
Number		6 Sets
Manufacturer		Harbin Jilian Machine Works
Capacity	(Nm^3/hour)	4
H_2 gas pressure	(kg/cm^2g)	10 (Max.)
Electric Power		
Consumption	(KVA)	24
Electrolyte		Demineralized Water or Condensate with KOH
Dimensions	(mm)	1915 X 628 X 909
Weight	(kg)	1350

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H_2 gas storage tank

Type		Vertical cylindrical outdoor
Number		12 Sets
Manufacturer		Power Machine Works
Capacity	(m^3)	20
Design pressure	(kg/cm^2g)	10
Dimension	(mm)	Ø2200
Weight	(kg)	~ 5500

1.2 ISOLATED PHASE BUS DUCT

(1) Manufacturer	FUXIN ENCLOSED BUS FACTORY
(2) Type	QFM-20-1
(3) Conductor	
Conductivity of the material	Purity aluminium
Size	Enclosure ϕ900x7 Conductor ϕ400x12
Shape	Duct

(4) Rating

		Main Bus circuit	Sub Bus circuit	Branched Bus circuit
Voltage	(KV)	20	20	20
Current	(A)	10000	2000	2000
BIL	(KV)	120	120	120
Symmetrical current	(KA)	400	560	560
Thermal stressed due to three phase short circuit	(sec)	2	2	2

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(5) Temperature rise

Conductor	(^{o}C)	< 40
Enclosure	(^{o}C)	< 65

1.3 POTENTIAL TRANSFORMER CUBICLE

Potential Transformer

Type		Moulded type single pole
Number		9
Manufacturer		Fuxin Enclosed Bus Factory
Rating	(KV)	15.75
Frequency	(Hz)	50

		For metering and relaying	For Automatic Voltage Regulator
PT ratio		$\frac{15}{\sqrt{3}}/\frac{0.1}{\sqrt{3}}/\frac{0.1}{\sqrt{3}}$kv	$\frac{15}{\sqrt{3}}/\frac{0.1}{\sqrt{3}}/\frac{0.1}{\sqrt{3}}$kv
Accuracy class		0.5	0.5
Burden	(VA)	200	200
Connection		$Y_o/Y/\Delta$	$Y_o/Y/\Delta$

Cubicle

Dimension

Height	(mm)	2700
Width	(mm)	800
Depth	(mm)	1250

Space heater

Capacity	(VA)	300-500
Voltage	(V)	220

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1.4 SURGE ABSORBER CUBICLE

Surge absorber		
Type		FCD_2-15.75
Number		3 Sets
Manufacturer		Fushun Electrical Porcelain Factory
Rating	(KV)	15.75
Cubicle		
Dimension		
Height	(mm)	2000
Width	(mm)	800
Depth	(mm)	800
Weight	(kg)	300
Space heater		
Capacity	(VA)	300-500
Voltage	(V)	220

1.5 NEUTRAL GROUNDING RESISTOR CUBICLE

Grounding Transformer		
Type		Dry type
Number		3 Sets
Manufacturer		Fuxin Enclosed Bus Factory
Rating		
Capacity	(KVA)	50
Voltage	(V)	15750/190
Class of rating		5 minutes
Ground Resistor		Grid
Type		3 Sets
Number		

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Manufacturer		Dalian Resistor Works
Resistance	(ohm)	0.66
Current	(A)	300
Class of rating		5 minutes
Disconnecting switch		
Type		Manual operated single pole single throw
Number		3 Sets
Manufacturer		Fuxin Enclosed Bus Factory
Voltage	(V)	20000
Current	(A)	400

2. POWER TRANSFORMERS

2.1 MAIN TRANSFORMER

(1)	Type		OFAF
(2)	Number		3 Sets
(3)	Manufacturer		Shenyang Transformer Works
(4)	Capacity	(KVA)	250000
(5)	Frequency	(Hz)	50
(6)	High Tension Voltage	(KV)	220 ± 10%
(7)	Low Tension Voltage	(KV)	15.75 ±10%
(8)	No load number of voltage taps on high tension side		9 Taps each 2½%
(9)	Connection		
	High tension side		Wye
	Low tension side		Delta
	High tension neutral		Direct grounding

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(10)	Impedance voltage (at rated KVA base)	(%)	12
(11)	Insulation class		A
	High tension side		Graded
	Low tension side		Full
(12)	Vector group		YND 1
(13)	Insulation level		
	High tension side BIL Full Wave	(KV)	1050
	Low tension side BIL Full Wave	(KV)	150
(14)	Sound level (dB(A)) at 1m distance		90
(15)	Number of coolers		3
(16)	Dimension		
	Height	(mm)	7450
	Width	(mm)	11500
	Depth	(mm)	7250
(17)	Weight		
	Cores and coils	(kg)	165000
	Total assembled with oil	(kg)	285000
(18)	Insulating oil		
	Quantity	(Liters)	62000
	Type		DB-25 GB2536-81
	Manufacturer		Dalin Seventh Oil Refinery
(19)	Bushing type current transformer		
	Type		Bushing type
	Number		3 Sets
	Manufacturer		Shenyang Transformer Works
	CT ratio		600/5
	Burden	(VA)	40
	Accuracy class		1.0

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(20) Efficiency

Load (%)	100	75	50	25
P.F 1.0	99.69	99.73	99.74	99.68
P.F 0.85	99.63	99.68	99.7	99.62

(21) Losses (at rated condition)		
No load loss	(KW)	162
Full load loss	(KW)	615
Loss in auxiliary machine and apparatus	(KW)	21.6
(22) Temperature rise limit		
Winding	(^{o}C)	60
Oil	(^{o}C)	50

2.2 AUXILIARY TRANSFORMER

(1) Type		ONAF
(2) Number		3 Sets
(3) Manufacturer		Shenyang Transformer Works
(4) Capacity	(KVA)	25000
(5) Frequency	(Hz)	50
(6) High tension voltage	(KV)	15.75±10%
(7) Low tension voltage	(KV)	6.9± 10%
(8) ON load number of voltage taps on high tension side		9 Taps each ±2½%

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(9)	Connection		
	High tension side		Delta
	Low tension side		Wye
	Low tension neutral		Transformer grounding
(10)	Impedance voltage (at rated KVA base)	(%)	10
(11)	Insulation class		
	High tension side		A
	Low tension side		A
(12)	Vector group		DYN 11
(13)	Insulation level		
	High tension side	(KV)	Full
	Low tension side	KV)	Full
	High Tension BIL Full Wave	(KV)	150
	Low Tension BIL Full Wave	(KV)	60
(14)	Sound level	(dB(A)) at 1m distance	< 90
(15)	Cooling equipment		
	Number of radiators		10
(16)	Dimension		
	Height	(mm)	5600
	Width	(mm)	4600
	Depth	(mm)	7900
(17)	Weight		
	Cores and coils	(kg)	25600
	Total assembled with oil	(kg)	63000
(18)	Insulating oil		
	Quantity	(Litre)	22200
	Type		DB-25 2536-81
	Manufacturer		Dalian Seventh Oil Refinery

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(19) Bushing type current transformer

Type					Bushing type
Number					3, 6
Manufacturer					Shenyang Transformer Works
CT ratio					12000/5, 15000/5
Burden	(VA)				40 40
Accuracy class					1.0 1.0

(20) Efficiency

Load %	100	75	50	25
P.F 1.0	99.46	99.53	99.57	99.47
P.F 0.85	99.36	99.45	99.49	99.34

(21) Losses

No load loss	(KW)	26.6
Full load loss	(KW)	110

(22) Temperature rise limit

Winding	(^{o}C)	60
Oil	(^{o}C)	50

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2.3 STARTING TRANSFORMER

(1)	Type		OFAF
(2)	Number		1 Set
(3)	Manufacturer		Shenyang Transformer Works
(4)	Capacity	(KVA)	25000
(5)	Frequency	(Hz)	50
(6)	High tension voltage	(KV)	132±10%
(7)	Low tension voltage	(KV)	6.9 ± 10%
(8)	On load voltage tap		17 Taps each 1¼%
	Number of on load taps on high tension side		17
(9)	System Highest Voltage		
	High Tension side	(KV)	145
	Low Tension side	(KV)	7.3
(10)	Connection		
	High tension side		Wye
	Low tension side		Wye
	High tension neutral		Direct grounding
	Tertiary		Delta (embedded)
(11)	Impedance voltage (at rated KVA basis)	(%)	11
(12)	Insulation class		A
	High tension side		Graded
	Low tension side		Full
(13)	Vector group		Yn Yn 0 dl
(14)	Insulation level		
	High tension side BIL full wave	(KV)	650
	Low tension side BIL full wave	(KV)	60

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(15)	Sound level (dB(A)) at 1m distance		90
(16)	Cooling equipment		
	No. of radiators		3 + 1
(17)	Dimension		
	Height	(mm)	6100
	Width	(mm)	8130
	Depth	(mm)	5650
(18)	Weight		
	Cores and coils	(kg)	29200
	Total assembled with oil	(kg)	78000
(19)	Insulating oil		
	Quantity	(Litres)	33000
	Type		DB-25 GB2536-81
	Manufacturer		Dalian Seventh Oil Refinery
(20)	Bushing type current transformer		
	Type		Bushing type
	Number		2
	Manufacturer		Shenyang Transformer
	CT ratio		600/5
	Burden	(VA)	40
	Accuracy class		1.0
(21)	Losses		
	No load loss	(KW)	30
	Full load loss	(KW)	120
	Loss in auxiliary machine and apparatus	(KW)	13.6
(22)	Temperature rise limite		
	Winding	(^{o}C)	60
	Oil	(^{o}C)	50

(23) Efficiency

Load (%)	100	75	50	25
P.F. 1.0	99.33	99.4	99.4	99.3
P.F 0.85	99.2	99.3	99.3	99.1

STARTING TRANSFORMER (220/6.9 KV)

2.4

(1)	Type		OFAF
(2)	Number		1 Set
(3)	Manufacturer		Shenyang Transformer Works
(4)	Capacity	(KVA)	25000
(5)	Frequency	(Hz)	50
(6)	High tension voltage	(KV)	220 ± 10%
(7)	Low tension voltage	(KV)	6.9 ± 10%
(8)	On load voltage tap		17 taps each of 1½%
	Number of onload taps on high tension side		17
(9)	Connection		
	High tension side		Wye
	Low tension side		Wye
	High tension neutral		Direct grounding
	Tertiary		Delta (embedded)
(10)	Impedance voltage (%) (at rated KVA base)		11
(11)	Insulation class		A
	High tension side		Graded
	Low tension side		Full

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(12)	Vector group		Yn yn 0 d1
(13)	Insulation level		
	High tension side BIL full wave	(KV)	1050
	Low tension side BIL full wave	(KV)	60
(14)	Sound level (dB(A) at 1m distance)		90
(15)	Cooling equipment		
	Number of radiators		4 + 1
(16)	Dimension		
	Height	(mm)	6700
	Width	(mm)	7600
	Depth	(mm)	4870
(17)	Weight		
	Cores and coils	(Kg)	37500
	Total assembled with oil	(Kg)	115700
(18)	Insulating oil		
	Quantity	(Litres)	5133
	Type		DB-25 GB 2536 - 81
	Manufacturer		Dalian Seventh Oil Refinery
(19)	Bushing type current transformer		
	Type		Bushing type
	Number		2
	Manufacturer		SYTW
	CT ratio		600/5
	Burden	(VA)	40
	Accuracy Class		1.0

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(20) Losses

No load loss	(KW)	37
Full load loss	(KW)	130
Loss in auxiliary machine and apparatus	(KW)	13.6

(21) Temperature rise

Winding	(^{o}C)	60
Oil	(^{o}C)	50

(22) Efficiency

Load (%)	100	75	50	25
P.F 1.0	99.40	99.45	99.47	99.3
P.F 0.85	99.28	99.32	99.34	99.12

3. METAL CLAD SWITCHGEAR

3.1 6600 V METAL CLAD SWITCHGEAR

(1)	Type		Indoor,drip proof
(2)	Number		5 Sets
(3)	Manufacturer		Beijing Switchgear Factory
(4)	Number of unit		
	Incoming, Bus tie		16
	Feeder		59
	Potential transformer		3
	Surge absorber		3
(5)	Rating		
	Voltage	(V)	6600
	Current	(A)	2500
	Frequency	(Hz)	50
	Interrupting current	(KA)	31.5
	Insulation level BIL full wave	(KV)	60

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(6)	Dimension of completely assembled switchgear		
	Height	(mm)	2250
	Width	(mm)	750
	Depth	(mm)	1250
(7)	Weight of completely assembled switchgear	(kg)	900
(8)	Space heater		
	Capacity	(VA)	100
	Voltage	(V)	220
(9)	Circuit Breaker		
	Type		Vacuum
	Number		64
	Voltage	(V)	7200
	Current	(A)	2500
	Interrupting capacity	(KA)	40
	Short time current	(KA)	40
	Short time capability	(Sec)	3
	Interrupting time	(sec)	0.075
	Recovery voltage	(KV)	12
	Opening time	(sec)	0.06
	No load closing time	(sec)	0.075
	Control voltage	(V)	220 DC
	Tripping voltage	(V)	220 DC
	Class of insulation		BIL 60KV
	Standard operating duty		0-0.3S-CO -180S-CO
	Weight	(kg)	156

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3.2 400 V POWER CENTER

(1)	Type		Indoor, Drip proof
(2)	Number		19
(3)	Manufacturer		Shenyang L.V Switchgear Factory
(4)	Number of units		144
	Incoming, Bus tie		23
	Feeder		102
	Potential transformer		19
(5)	Rating		
	Voltage	(V)	600
	Current	(A)	630, 1250 2000,3000
(6)	Quality of the bus conductor		Copper
(7)	Dimension of completely assembled switchgear (including transformer cubicle)		
	Height	(mm)	Later
	Width	(mm)	Later
	Depth	(mm)	Later
(8)	Weight (including transformer and breakers)	(kg)	Later
(9)	Space heater		300
	Capacity	(VA)	220
	Voltage	(V)	
(10)	Transformer		Two Winding
	Type		19
	Number		Shanghai Transformer Works
	Manufacturer		

CamScanner

	Capacity	(KVA)	1600,1250 400,315
	Class of rating		Continuous
	Voltage		
	High tension side	(V)	6600
	Low tension side	(V)	400
	No load on-voltage tap	(V)	5 Taps
	Frequency	(Hz)	50
	Connection		
	High tension side		Delta
	Low tension side		Delta
	Impedance voltage (at rated KVA)	(%)	8,6,4
	Insulation class		H
	Dimension		
	Height	(mm)	2250
	Width	(mm)	1890
	Depth	(mm)	940
	Weight	(kg)	4220
(11)	Circuit Breaker		
	Type		ACB
	Number		~ 200 600
	Voltage	(V)	3000,1600 800,630
	Current	(A)	40
	Interrupting capacity	(KA)	40
	Short time current	(KA)	0.03
	Opening time	(sec)	220 DC
	Control voltage	(V)	160,66.5
	Weight	(kg)	

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3.3 400 V CONTROL CENTER

(1) Type		Indoor, self standing
(2) Number		~ 29
(3) Manufacturer		Shenyang L.V Switchgear Factory
(4) Voltage	(V)	600
(5) Main bus current	(A)	1500
(6) Branch bus current	(A)	400
(7) Quality of the bus conductor		Copper
(8) Dimension		
Height	(mm)	2200
Width	(mm)	800
Depth	(mm)	600
(9) Weight	(kg)	400
(10) Space heater		
Capacity	(VA)	300
Voltage	(V)	200

3.4 CONSTANT VOLTAGE CONSTANT FREQUENCY EQUIPMENT

		For Computer	For Control
(1) Type		Self standing	Self standing
(2) Number		3 sets	3 Sets
(3) Manufacturer		Shanghai Electrical Technical Institute	Shanghai Electrical Technical Institute
(4) Input voltage (DC)	(V)	220	220
Input voltage (AC)	(V)	380/220	380/220
(5) Output voltage (AC)	(V)	220	220
(6) Voltage regulation (± %)		5.0	5.0
(7) Frequency regulation (± %)		1.0	1.0

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			For Computer	For Control
(8)	Cooling type		Self-cooled	Self-cooled
(9)	Dimension of completely assembled			
	Height	(mm)	2000	2000
	Width	(mm)	3200	3200
	Depth	(mm)	800	800
(10)	Weight	(kg)	3700	3700

4. PANEL AND BOARD

4.1 BOILER - TURBINE - GENERATOR (BTG) BOARD

(1)	Type		Indoor selfstanding
(2)	Number		3 Sets
(3)	Manufacturer		Xian Instrument Factory
(4)	Thickness of steel plate	(mm)	3.2
(5)	Dimension		
	Height	(mm)	2350
	Width	(mm)	7500
	Depth	(mm)	2900
(6)	Weight	(kg)	2000

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(7) Accessories

Meter			
Kind x Number	Watt meter x 3	VAR meter x 3	PF meter x 3
Manufacturer	Beijing Automation Control Equipment Factory	Beijing Automation Control Equip.Factory	Beijing Automation Control Equip. Factory
Type	Z-2100	Z-2100	Z-2100
Accuracy class	1.5	1.5	
Kind x Number	AC voltage meterx12	Frequency meterx3	Built-up synchroscopex3
Manufacturer	Beijing Automation Control Equipment Factory	Beijing Automation Control Equip.Factory	Shanghai Hunan Instrument Factory
Type	Z-2100	Z-2100	MZ-10
Accuracy class	1.0	0.5	
Kind x Number	DC Voltage meterx3	DC current meterx3	AC current meterx24
Manufacturer	Beijing Automation Control Equipment Factory	Beijing Automation Control Equip.Factory	Beijing Automation Control Equip.Factory
Type	Z-2100	Z-2100	Z-2100
Accuracy class	1.5	1.5	1.5
Protection relay			
Kind x Number	Diff.relay x 9	Diff.relay x 9	Diff.relay x 9
Manufacturer	Acheng Relay Factory	Acheng Relay Factory	Acheng Relay Factory
Type	LCD-11	LCD-15	LCD-12

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Kind x Number	Negative phase sequence relayx3	Loss of excitation relayx3	Impedance relayx9
Manufacturer	Acheng Relay Factory	Acheng Relay Factory	Acheng Rela Factory
Type	LFL-7	LDC-2	LZ-14
Kind x Number	Frequency relayx6	Voltage Balance relayx3	Over Voltage relayx3
Manufacturer	Acheng Relay Factory	Acheng Relay Factory	Acheng Rel Factory
Type	FCX-1036	LB-5	LD-7
Kind x Number	Grounding Relay of Excitation Systemx6	Current relay-48	Over Exitatio relayx3
Manufacturer	Acheng Relay Factory	Acheng Relay Factory	Acheng Rela Factory
Type	LD-6(9)	DL-21C	PZB-10B
Kind x Number	Voltage relayx9	Over Voltage relayx6	Auxiliary relayx12
Manufacturer	Acheng Relay Factory	Acheng Relay Factory	Acheng Relay Factory
Type	DY-20C	LD-7	PZB-10B
Recorder			
Kind x Number	Watt recorderx3	VAR recorderx3	_____
Manufacturer	Shanghai Electric Instrument Factory	Shanghai Electric Instrument Factory	_____
Type	LD10-W	LD10-VAR	_____
Accuracy class	1.5	1.5	_____

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Kind x Number	1 x 1	Watt meter x 3	Watt meter x 12
Manufacturer	Sichuan Instrument Factory	Shanghai Watt Meter Factory	Shanghai Watt Meter Factory
Type	ER - 180	DS-21	DS-22
Accuracy class	±0.5%	0.5	1.0

Operation recorder

Kind x Number		3
Manufacturer		Xian Instrument Factory
Type		SRX-40
Accuracy class		± 10%

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4.2 DISTRIBUTION PANEL

220V NORMAL AND EMERGENCY LIGHTING DISTRIBUTION PANEL

(1) Panel

Type		Self standing
Number		3 Sets
Manufacturer		Shenyang L.V Switchgear Factory
Thickness of steel plate	(mm)	3.2
Voltage	(V)	220
Phase		3
Bus current	(A)	200
Moulded type air circuit breaker		
Number		40
Manufacturer		Shenyang L.V. Switchgear Factory
Rating	(V. A)	600V, 50A

(2) Transformer

Type		Dry
Number		3
Manufacturer		Shenyang Transformer Works
Capacity	(KVA)	20
Voltage		
High tension side	(V)	380
Low tension side	(V)	220
No load no voltage tap	(V)	400-380 -360
Insulation class		H

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Dimension			
Height			895
Width			990
Depth			650
Weight (including transformer cubicle)			~ 520
Space heater			
Capacity			220
Voltage			220
(3) Panel		220V DC DISTRIBUTION PANEL	380V AC AND 220V AC MISCELLANEOUS DISTRIBUTION PANEL
Type			
Number		6	27
Manufacturer		Shenyang L.V Switchgear Factory	Shenyang L.V Switch-gear Factory
Thickness of steel plate	(mm)	3.2	3.2
Voltage	(V)	220	380, 220
Phase		1	3
Bus current	(A)	1000	600
Moulded type circuit breaker			
Number		90	180
Manufacturer		Shenyang L.V Switchgear Factory	Shenyang L.V Switch-gear Factory
Rating		600V 100A, 225A	600V 100A, 225A
(4) Transformer			
Type			Dry
Number			3
Manufacturer			Shanghai Transformer Works
Capacity	(KVA)		250

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Voltage		
High tension side	(V)	380
Low tension side	(V)	380,220
No load no voltage tap	(V)	400-380-360
Insulation class		H
Dimension		
Height	(mm)	1240
Width	(mm)	1330
Depth	(mm)	650
Weight (including transformer cubicle)	(kg)	1180
Space heater		
Capacity	(VA)	200
Voltage	(V)	220

4.3 AUXILIARY CONTROL PANEL

(1)	Type		Indoor drip proof
(2)	Number		3 Sets
(3)	Manufacturer		Acheng Relay Factory
(4)	Thickness of steel plate	(mm)	3.2
(5)	Dimension		
	Height	(mm)	2000
	Width	(mm)	800
	Depth	(mm)	550
(6)	Weight	(kg)	~500

CamScanner

4.4 AUXILIARY RELAY PANEL

(1)	Type		Indoor, drip proof
(2)	Number		3 Sets
(3)	Manufacturer		Acheng Relay Factory
(4)	Thickness of steel plate	(mm)	3
(5)	Dimension		
	Height	(mm)	2000
	Width	(mm)	800
	Depth	(mm)	550
(6)	Weight	(kg)	~ 500

4.5 TELE-CONTROL EQUIPMENT

(1)	Type of tele-control system		Wired control
(2)	Number		3 Sets
(3)	Manufacturer		Shanghai Fourth Auto. Instrument Factory
(4)	Rating	(V)	220
(5)	Number of signal		30
	Digital		1
	Analog		Electronic
	Type of control relay		12y, 10V -15V
	Control voltage		
(6)	Cubicle		Indoor
	Type		3.2
	Thickness of steel plate	(mm)	

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Dimension		
Height	(mm)	1300
Width	(mm)	1150
Depth	(mm)	850
Weight	(kg)	220
Accessories		

5. EMERGENCY DIESEL ENGINE GENERATOR

5.1 GENERATOR

(1) Type		Air cooled
(2) Number		3 Sets
(3) Manufacturer		Guizhou Diesel Factory
(4) Capacity	(KVA)	625
(5) Voltage	(V)	400
(6) Current	(A)	902
(7) Frequency	(Hz)	50
(8) Phase		3
(9) Pole		4
(10) Connection		Wye
(11) Power factor		0.8
(12) Speed	(rpm)	1500
(13) Insulation class		B
(14) Excitation system		Static self excited
Type		Static
Automatic voltage regulator		One
(15) Over load capacity at 110% of rated load	(Hours)	

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(16)	Voltage regulation	(%)	± 10.0
(17)	Dimension		
	Height	(mm)	1020
	Width	(mm)	1360
	Depth	(mm)	860
(18)	Weight	(kg)	1800

5.2 ENGINE

(1)	Type		Direct fired
(2)	Number		3 sets
(3)	Manufacturer		Guizhou Diesel Factory
(4)	Output	(Hp)	880
(5)	Speed	(rpm)	1500
(6)	Number of cylinders		12
(7)	Starting system		Battery
(8)	Automatic starting device		———
(9)	Compression ratio		———
(10)	Type of fuel		H.S.D. oil
	Fuel consumption	(g/KWH)	———
(11)	Lubrication oil system		———
	Lub oil consumption	(g/KWH)	———
(12)	Exhaust system		Exhaust pipe
(13)	Over load capacity	(Hour)	One
(14)	Dimension		
	Height	(mm)	1734
	Width	(mm)	1170
	Length	(mm)	1954
(15)	Weight	(kg)	1650

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(16) Diesel engine generator assembled

Dimension		
Width	(mm)	1370
Length	(mm)	3367
Weight	(kg)	4100

5.3 CONTROL PANEL

			Diesel engine generator control panel	Auto. start panel
(1)	Type		Indoor	Indoor
(2)	Number		3 Sets	3 sets
(3)	Manufacturer		Guizhou Diesel Factory	Guizho Diese Factory
(4)	Thickness of steel plate	(mm)	3.2	3.2
(5)	Dimension			
	Height	(mm)	2140	2140
	Width	(mm)	800	800
	Depth	(mm)	720	720
(6)	Weight	(kg)	200	200
(7)	Space heater			
	Capacity	(VA)	300	300
	Voltage	(V)	220	220

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6. BATTERY AND BATTERY CHARGER

(1) Battery

Type		Lead Acid
Number of sets		3 sets
Manufacturer		Shenyang Storage Batteries Factory
Mounting method		On pad
Voltage	(V)	220
Rated capacity at 10 hour Discharge rate	(Ah)	1600
Number of cells		130
Nominal voltage of cell	(V)	2.0
Maximum discharge current	(A)	2250
Maximum temperature of electrolyte	(^{o}C)	45
Volume of electrolyte per cell	(Litre)	45
Dimension		
Height	(mm)	650
Width	(mm)	277
Depth	(mm)	439

(2) Rectifier

Type		Indoor
Number		3 Sets
Manufacturer		Xian Power Rectifier Works
Rectification system		3 Phase full wave
Cooling system		Self air cooled
Rating		
Input (AC side)		
Frequency	(Hz)	50

Frequency fluctuation range	(±)	(1-12)
Voltage	(A)	200
Voltage fluctuation range		± 10%
Power factor		1.0
Output (DC side)		
Set voltage		
Floating	(V)	200-260
Equalizing	(V)	200-260
Stepless voltage in voltage adjustment		Continuous
Current	(A)	200
Set voltage accuracy		± 2%
Efficiency (at full load)		85%
Cubicle		
Dimension (including rectifier)		
Height	(mm)	2360
Width	(mm)	1000
Depth	(mm)	550
Weight (including rectifier)	(kg)	≈ 1200

COMMUNICATION

PAGING SYSTEM

(1) Amplifier panel

Type	Self standing*
Number	Two sets in total (Duplex units)
Manufacturer	Nippon Communication Equipment Factory

* A scattered amplifier system shall be supplied.

Thickness of steel plate	(mm)	2.5
Rating		
Output	(W)	15
Frequency characteristic	(Hz)	250~4000
S/N ratio	(dB)	
Input impedance	(Kohm)	50 ± 20%
Output impedance	(ohm)	8
Dimension		
Height	(mm)	160
Width	(mm)	140
Depth	(mm)	30
(2) Power source panel		
Type		Self standing
Number		2 sets
Manufacturer		Yushan Communication Equipment Factory
Thickness of steel plate	(mm)	3.2
Input rated voltage	(V)	220 ± 10%
Output rated voltage	(V)	D.C.24
Dimension		
Height	(mm)	200
Width	(mm)	160
Depth	(mm)	40
(3) Hand set		
Type		Wall supporting
Number		110
Manufacturer		Yushan Communication Equipment Factory

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Outdoor wall supporting type		85
Indoor desk type		25
Dimension		
Height	(mm)	
Width	(mm)	
Depth	(mm)	
(4) Speaker		
Type		Horn,cone
Number		85
Manufacturer		Yushan Communication Equipment Factory
Horn wall type		40
Cone type		45
Horn type		
Diameter	(mm)	130
Output	(W)	3.5
Cone type		400
Diameter	(mm)	10.15
Output	(W)	
(5) Control Console Desk		
Type		MFC-II
Number		2 sets
Manufacturer		Yushan Communication Equipment Factory
Dimension		
Height	(mm)	1050
Width	(mm)	1200
Depth	(mm)	600

7.2 CLOCK SYSTEM

(1) Master clock equipment

Type		Self standing
Number		1 set
Manufacturer		Shanghai Electric Clock Factory
Rating		
Oscillating frequency	(KHz)	100
Time error	(Sec per day)	0.0667
Slave clock output	(channel)	1
Signal	(V)	24V
Input power source		DC 220V
Capacity		50

(2) Panel

Type		Self standing
Number		2 sets
Thickness of steel plate	(mm)	3.0
Dimension		
Height	(mm)	190
Width	(mm)	450
Depth	(mm)	370
Weight(including master clock equipment) (Approx)	(kg)	8

(3) Slave clock

Type		Single and double face
Number		40 sets
Manufacturer		Shanghai Electric Clock FAC
Single face		32
Double face		8

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8. LIGHTING

	Machine Hall First floor	Machine Hall Mezzanine floor
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps		
Type	PQ220	PQ220
Number	84,20	45,100
Rating	60W,200W	200W.60W
Flourescent lamps		
Type	RR-40	RR-40
Number	750	730
Rating	40W	40W
Mercury vapour lamps		
Type	GGY250	GGY250
Number	175	175
Rating	250W	250
Exit sign lights		
Type	GC	GC
Number	22	11
Rating	10W	10W
Power receptacles		
Type	86Z13A	86Z13A
Number	65	65
Rating	220, 15A	220V,15A

		Machine Hall First floor	Machine Hall Mezzanine floor
Lighting distribution panel			
Type		XM-4	XM-4
Number		16	8
Rating		250A	250A
Illumination level	(Lux)	100	100
		Central Control Room Operating floor	Boiler area
Lighting fixture			
Type			
Number			
Manufacturer		Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps			
Type		PQ220	PQ220
Number		45,10 18,60	75
Rating		60W,100W 200W,500W	100W
Flourescent lamps			
Type		RR-40	NA
Number		700	NA
Rating		40W	NA
Mercury vapour lamps			
Type		GGY750 GGY250	GGY125
Number		45,55	490
Rating		750W,250W	155W

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		Central control room Operating floor	Boiler area
Exit sign lights			
Type		GC	GC
Number		18	18
Rating		10W	10W
Power receptacles			
Type		86Z13A	86Z13A
Number		65	45
Rating		220V,15A	220V,15A
Lighting distribution panel			
Type		XM-4	XM-4
Number		10	4
Rating		220V,250A	220V,250A
Illumination level	(Lux)	500	100

	H_2 gas generator room	Cooling tower Pump house
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps		
Type	NA	PQ220
Number	NA	10
Rating	NA	100W

		H_2 gas generator room	Cooling tower Pump house
Flourescent lamps			
Type		RR-40	RR-40
Number		15	45
Rating		40W	40W
Mercury vapour lamps			
Type		GGY250	NA
Number		4	NA
Rating		250W	NA
Exit sign light			
Type		NA	NA
Number		NA	NA
Rating		NA	NA
Power receptacles			
Type		NA	86Z13A
Number		NA	10
Rating		NA	220V,15A
Light distribution panel			
Type		XM-4	XM-4
Number		3	3
Rating	(V. A)	250A	250A
Illumination level	(Lux)	100	100

	Water pretreatment buildings	Water treatment buildings
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation

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	Water pretreatment buildings	Water treatment buildings
Incandescent lamps		
Type	PQ220	PQ220
Number	22	15
Rating	60W	60W
Flourescent lamps		
Type	RR-40	RR-40
Number	65	45
Rating	40W	40W
Mercury vapour lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Exit sign lights		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Power receptacles		
Type	86Z13A	86Z13A
Number	22	13
Rating	220V,15A	220V,15A
Lighting distribution Panel		
Type	XM-4	XM-4
Number	3	3
Rating	250A	250A
Illumination level (Lux)	100	100

	Intake water pump control room	Fuel oil equipment power room
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lightin Fixture Corporatio
Incandescent lamps		
Type	PQ220	PQ220
Number	10	7
Rating	100W	60W
Flourescent lamps		
Type	RR-40	RR-40
Number	18	9
Rating	40W	40W
Mercury vapour lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Exit sign lights		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Power receptacles		
Type	86Z13A	86Z13A
Number	9	5
Rating	220V,15A	220V,15A
Lighting distribution panel		
Type	XM-4	XM-4

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		Intake water pump control room	Fuel at facility control room
Number		2	1
Rating		220V,250	220,250
Illumination level	(Lux)	100	100
		Intake pump station	Intake bridge
Lighting fixture			
Type			
Number			
Manufacturer		Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps			
Type		NA	NA
Number		NA	NA
Rating		NA	NA
Flourescent lamps			
Type		NA	NA
Number		NA	NA
Rating		NA	NA
Mercury vapour lamps			
Type		GGY125	GGY250
Number		20	90
Rating		125W	250W
Exit sign light			
Type		NA	NA
Number		NA	NA
Rating		NA	NA

	Intake pump station Required	Intake pump station Offered	Intake bridge Required	Intake bridge Offered
Power receptacles				
Type		NA		NA
Number		NA		NA
Rating		NA		NA
Light distribution panel				
Type		XM-4		XM-4
Number		2		NA
Rating		220V,250A		NA
Illumination level (Lux)		200		100

	Cooling tower area	Water pretreatment area
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporatio
Incandescent lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Flourescent lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Mercury vapour lamps		
Type	GGY250	GGY250
Number	110	30

	Cooling tower area	Water pretreatment area
Rating	250W	250W
Exit sign lights		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Power receptacles		
Type	NA	86Z13A
Number	NA	9
Rating	NA	220V,15A
Lighting distribution panel		
Type	XM-4	XM-4
Number	3	3
Rating	250A	250A
Illumination level (Lux)	70	100

	water treatment area	Residual oil tank and transfer pump station
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamp		
Type	PQ220	PQ220
Number	18	5
Rating	100W	100W
Flourescent lamps		
Type	NA	NA
Number	NA	NA

	water treatment area	Residual oil tank and transfer pump station
Rating	NA	NA
Mercury vapour lamps		
Type	GGY250	GGY250
Number	22	11
Rating	250W	250W
Exit sign lights		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Power receptacles		
Type	86Z13A	86Z13A
Number	5	5
Rating	220V15A	220V15A
Lighting distribution panel		
Type	XM-4	XM-4
Number	3	1
Rating	220V250A	220V250A
Illumination level (Lux)	100	100

	Main transformer areas	Fuel oil unloading facility area
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps		
Type	NA	NA

	Main transformer areas	Fuel oil unloading facility area
Number	NA	NA
Rating	NA	NA
Flourescent lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Mercury vapour lamps		
Type	GGY250	GGY250
Number	13	11
Rating	250W	250W
Exit sign lights		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Power receptacles		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Lighting distribution panel		
Type	NA	XM-4
Number	NA	1
Rating	NA	220V250A
Illumination level (Lux)	20	100

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	HSD and residual oil service tank areas	Chemical equipment areas
Lighting distribution panel		
Type	XM-4	XM-4
Number	3	3
Rating	220V250A	220V250A
Illumination level (Lux)	100	100
	Fire water tank areas	**Make up water areas**
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps		
Type	PQ220	PQ220
Number	15	11
Rating	200W	200W
Flourescent lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Mercury vapour lamps		
Type	GGY250	GGY250
Number	18	11
Rating	250W	250W
Exit sign lights		
Type	NA	NA
Number	NA	NA

	Fire water tank areas	Make up water areas
Rating	NA	NA
Power receptacles		
Type	86Z13A	86Z13A
Number	11	NA
Rating	220V15A	NA
Lighting distribution panel		
Type	XM-4	XM-4
Number	3	3
Rating	220V250A	220V250A
Illumination level (Lux)	100	100
	Main Road	Branch Road
Lighting fixture		
Type		
Number		
Manufacturer	Shanghai Lighting Fixture Corporation	Shanghai Lighting Fixture Corporation
Incandescent lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Flourescent lamps		
Type	NA	NA
Number	NA	NA
Rating	NA	NA
Mercury vapour lamps		
Type	GGY250	GGY250

		Main Road	Branch Road
Number		110,22	330
Rating		250W,400W	250W
Exit sign lights			
Type		NA	NA
Number		NA	NA
Rating		NA	NA
Power receptacles			
Type		NA	NA
Number		NA	NA
Rating		NA	NA
Lighting distribution panel			
Type		XM-4	XM-4
Number		2	2
Rating	(V. A)	220V250A	220V250A
Illumination level	(Lux)	20	20

	Other outdoor equipment areas
Lighting fixture	
Type	
Number	
Manufacturer	Shanghai Lighting Fixture Corporation
Incandescent lamps	
Type	NA
Number	NA
Rating	NA

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		Other outdoor equipment areas
Flourescent lamps		
Type		NA
Number		NA
Rating		NA
Mercury vapour lamps		
Type		GGY250
Number		45
Rating		250W
Exit sign lights		
Type		NA
Number		NA
Rating		NA
Power receptacles		
Type		NA
Number		NA
Rating		NA
Lighting distribution panel		
Type		XM-4
Number		2
Rating		220V250A
Illumination level	(Lux)	100

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9. 220 KV SWITCHGEAR

9.1 SF 6 GAS CIRCUIT BREAKER

(1)	Type		SF6
(2)	Number		8 Sets
(3)	Manufacturer		Shenyang High Voltage Switchgear Factory
(4)	Nominal voltage	(KV)	220
(5)	Rated voltage	(KV)	245
(6)	Rated insulation level:		
	Lightning impulse withstand	(KV)	1050
	One minute power frequency withstand	(KV)	460
(7)	Rated frequency	(Hz)	50
(8)	Rated normal current	(A)	2000
(9)	Rated short curcuit breaking current	(KA)	40
(10)	Rated transient recovery voltage for terminal faults	(KV)	364
(11)	Rated TRV peak for short line faults	(KV)	280
(12)	Rated TRV peak for out of phase breaking	(KV)	500
(13)	Rated out of phase breaking capacity	(KA)	10
(14)	Rated short circuit making current	(KA)	100
(15)	Rated duration of short circuit	(Sec)	One
(16)	Rated operating sequence		O-0.3sec-CO -3min-CO
(17)	Rated line charging breaking current	(A)	125
(18)	Rated assymetrical breaking current	(KA)	45
(19)	Rated cable charging breaking current	(A)	250

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(20)	Rated D.C voltage	(VDC)	220
(21)	Total maximum break time for 0 to 100 percent of the rated breaking current	(ms)	60
(22)	Operating mechanism		
	Type of operating mechanism		Pneumatic
	Type of opening mechanism		Pneumatic
	Type of closing mechanism		Spring
(23)	Spring charge mechanism		
	Rated voltage of the charging motor in the operating mechanism	(V)	NA
	Time required for the motor to recharge the closing spring	(sec)	NA
(24)	Pneumatic mechanism		
	Rated pressure of compressed air for operation	(kg/cm^2g)	15
	Time required for the motor compressor unit to charge the air tank pressure	(sec)	90
(25)	SF_6 gas		
	Capacity	(Nm^3)	$2.4m^3$ (three poles)
	Type		SF_6
	Manufacturer		Japan or Equivalent
(26)	Bushing		
	Type		NGK in Japan or Equivalent
	Number		6
	Rated voltage	(KV)	252
	Rated current	(A)	2000

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(27)	Dimension		
	Height	(mm)	5200
	Width	(mm)	9600 (three poles)
	Depth	(mm)	3400
(28)	Weight	(kg)	11000 (three poles)
(29)	Bushing type current transformer		
	Number		2(per pole)
	Manufacturer		Japan or Equivalent
	CT ratio	(A)	2000/1
	Burden	(VA)	40
	Accuracy class		1.0
	Over current strength		40

9.2 DISCONNECTING SWITCH

(1)	Type		Outdoor
(2)	Number		15 sets
(3)	Manufacturer		Shenyang High Voltage Switchgear Factory
(4)	Nominal voltage	(KV)	220
(5)	Rated voltage	(KV)	245
(6)	Rated lightning impulse withstand voltage:		
	Across the isolating distance	(KV)	1200
	To earch and between poles	(KV)	1050
(7)	Rated one minute power frequency withstand voltage:		
	Across the isolating distance	(KV r.m.s.)	530
	To earth between poles	(KV r.m.s.)	460
(8)	Rated frequency	(Hz)	50
(9)	Rated normal current	(A)	2000

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(10)	Rated short time withstand current for:		
	Disconnector	(KA)	40
	Earthing switch	(KA)	40
(11)	Rated duration of short circuit:		
	Disconnector	(Sec)	Three
	Earthing switch	(Sec)	Three
(12)	Rated peak withstand current	(KA)	100
(13)	Rated mechanical load :		
	Straight load	(N)	1000
	Cross load	(N)	330
(14)	Auxiliary voltage :		
	A.C	(V)	240/415
	D.C	(V)	220
(15)	Maximum time required to open or close the switch	(Sec)	5
(16)	Maximum RIV at 1000 KHz and 150 KV line to ground voltage	(Micro volts)	500
(17)	Dimension		
	Height	(mm)	2670
	Width	(mm)	4320
	Depth	(mm)	710 (single pole)
(18)	Weight	(kg)	720

9.3 POTENTIAL TRANSFORMER

(1)	Type		Outdoor
(2)	Number		3 sets
(3)	Manufacturing		Shenyang Transformer Works
(4)	Nominal voltage	(KV)	220
(5)	Rated voltage	(KV)	245

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(6)	Rated primary voltage phase to neutral	(KV)	$220/\sqrt{3}$
(7)	Rated secondary voltage	(V)	$110/\sqrt{3}$
(8)	Rated frequency	(Hz)	50
(9)	No. of secondary windings		2
(10)	Rated output :		
	Burden for measuring	(VA)	75
	Burden for protection	(VA)	200
(11)	Standard measuring accuracy class		0.5
(12)	Standard protective accuracy class		6P
(13)	Voltage factor		
	Continuous		1.2
	30 minutes		1.5
(14)	One minute power frequency withstand voltage	(KV r.m.s)	460
(15)	Impulse withstand voltage	(KV)	1050
(16)	Power frequency withstand voltage for secondary circuit	(KV)	2
(17)	Ratio interference voltage at 1 MHz measured at 150 KV line to ground voltage	(Micro volts r.m.s)	500
(18)	Short circuit impedance (referred to secondary)	(ohm)	< 0.25
(19)	Thermal burden	(VA)	1000
(20)	Dimension		
	Height	(mm)	3010
	Width	(mm)	720
	Depth	(mm)	660
(21)	Weight	(kg)	1100

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9.4 LIGHTNING ARRESTER

(1)	Type		Outdoor
(2)	Number		3 Sets
(3)	Manufacturer		Fushun Electrical Porcelain Factory
(4)	Voltage rating	(KV)	200
(5)	Minimum dry or wet power frequency sparkover voltage	(KV r.m.s.)	340
(6)	Maximum 1.2/50 micro second impulse sparkover voltage	(KV peak)	520
(7)	Maximum front-of-wave sparkover voltage	(KV peak)	600
(8)	Steepness of wave front	(KV/micro second)	1200
(9)	Maximum residual voltage at :		
	5000 amp discharge current	(KV peak)	515
	10000 amp discharge current	(KV peak)	570
	20000 amp discharge current	(KV peak)	650
(10)	Peak value of 4/10 micro second high current impulse	(KA)	65
(11)	Peak value of impulse current long duration	(A)	800
(12)	R.I.V at 1 MHz measured at 5% above rated system voltage	(micro volt)	500
(13)	Arrester insulation impulse withstand voltage	(KV)	1050
(14)	Arrester insulation wet power frequency withstand voltage	(KV)	460
(15)	Dimension		
	Height	(mm)	3810
	Width	(mm)	1050
	Depth	(mm)	
(16)	Weight	(kg)	1132 (one phase)

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9.5 EXTENSION OF BAY

(1)	Type		
(2)	Number		2 Sets
(3)	Manufacturer		
(4)	Voltage	(KV)	220
(5)	Current	(A)	2000
(6)	Frequency	(Hz)	50
(7)	Insulation level BIL full wave	(KV)	1050
(8)	Bus bars		
	Size	(mm)	
(9)	Supporting structures		
	Number		
	Details		
(10)	Other accessories		

Note: The details about bus bars, supporting structures and other accessories shall be submitted by Contractor to the Engineer and the Employer for approval.

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9.6 CURRENT TRANSFORMER

(1)	Type		Single pole Oil filled
(2)	Number		6 sets
(3)	Manufacturer		Shenyang Transformer Works
(4)	Rated voltage	(KV)	245
(5)	Nominal system voltage	(KV)	220
(6)	Rated primary current	(A)	2400/1200/600
(7)	Rated secondary current	(A)	1.0
(8)	Rated frequency	(Hz)	50
(9)	Rated secondary output:		
	Measuring core (1)	(VA)	15
	Protective core (2)	(VA)	60
	Protective core (3)	(VA)	30
	Protective core (4)	(VA)	30
(10)	Accuracy class:		
	Measuring core		0.5
	Protective core		5P
(11)	Accuracy limit factor for protective core		20
(12)	Short time current ratings:		
	Thermal Ith	(KA)	40
	Dynamic Idyn	(KA)	100
(13)	One minute power frequency withstand voltage	(KV)	460
(14)	Impulse withstand voltage	(KV)	1050
(15)	One minute power frequency withstand voltage secondary winding	(KV)	2
(16)	Minimum height	(mm)	4400

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(17)	Minimum phase spacing	(mm)	3500
(18)	Minimum clearance	(mm)	1930
(19)	Minimum creepage distance	(mm)	4000
(20)	Weight per pole	(Kg)	1900
(21)	Weight of oil per pole	(Kg)	600
(22)	Type of oil		DB-25 GB 2536-81
(23)	Oil density at 25°C	(gm/ml)	0.86
(24)	Oil viscosity at 25°C	(cs)	30

9.7 220 KV UNDERGROUND CABLE

(1)	Type		ZQYD22 - 220(KV -1 680(mm^2)
(2)	Number		4 Circuits
(3)	Manufacturer		Shenyang Cable Works
(4)	Rated voltage	(KV)	220
(5)	Highest working voltage	(KV)	252
(6)	Cable permissible oil pressure		
	Maximum	(Pa)	6×10^5
	Minimum	(Pa)	0.2×10^5
(7)	One minute power frequency withstand voltage	(KV) (r.m.s)	490
(8)	Impulse withstand voltage	(KV) (Peak)	1050
(9)	Winding radius	(mm)	2410
(10)	Cable weight	(Kg/Km)	25860

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(11)	Maximum delivery length per drum	(m)	
(12)	Current carrying capacity at 55°C	(A)	690
(13)	Rated short circuit Current	(KA/1S)	66
(14)	Maximum permissible continous conductor temperature	(°C)	80
(15)	Maximum permissible short time conductor temperature	(°C)	95
(16)	Maximum permissible conductor temperature at short circuit	(°C)	160
(17)	D.C resistance at 20°C	(ohm/km)	0.02706
(18)	A.C resistance at 65°C	(ohm/km)	0.03413
(19)	Inductance per phase	(mH/km)	0.528
(20)	Capacitance	(uF/km)	0.2437
(21)	Max. dielectric loss angle	(tg 8)	0.003

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10. 132 KV SWITCHGEAR

10.1 SF6 GAS CIRCUIT BREAKER

(1)	Type		SF_6
(2)	Number		1 Set
(3)	Manufacturer		Shenyang High Voltage Switchgear Factory or Equivalent
(4)	Nominal voltage	(KV)	132
(5)	Rated voltage	(KV)	145
(6)	Rated insulation level:		
	Lightning impulse withstand	(KV)	650
	One minute power frequency withstand	(KV)	275
(7)	Rated frequency	(Hz)	50
(8)	Rated normal current	(A)	1600
(9)	Rated short circuit breaking current	(KA)	20
(10)	Rated transient recovery voltage for terminal faults	(KV)	248
(11)	Rated TRV peak for short line faults	(KV)	166
(12)	Rated out of phase breaking capacity	(KA)	5
(13)	Rated short time making current	(KA)	50
(14)	Rated duration of short circuit	(Sec)	One 0-0.3 sec-co -3min-co
(15)	Rated operating sequence		
(16)	Rated line charging breaking current	(A)	50
(17)	Rated assymetrical breaking current	(KA)	22
(18)	Rated cable charging breaking current	(A)	160
(19)	Rated D.C. voltage	(VDC)	220
(20)	Total maximum break time for 0 to 100 percent of rated breaking current	(ms)	100

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(21)	Operating mechanism		
	Type of operating mechanism		
	Type of opening mechanism		Pneumatic
	Type of closing mechanism		Pneumatic
(22)	Spring charge mechanism		Spring
	Rated voltage of the charging motor in the operating mechanism	(V)	NA
	Time required for the motor to recharge the closing spring	(sec)	NA
(23)	Pneumatic mechanism		
	Rated pressure of compressed air for operation	(kg/cm^2g)	15
	Time required for the motor compressor unit to charge the air tank pressure	(sec)	90
(24)	SF6 gas		
	Capacity		$1.2m^3$
	Type		SF_6
	Manufacturer		Hitach or Equivalent
(25)	Bushing		
	Type		NGK in Japan
	Number		6
	Rated voltage	(KV)	132
	Rated current	(A)	1600
(26)	Dimension		
	Height	(mm)	3800
	Width	(mm)	2100
	Depth	(mm)	6025
(27)	Weight	(kg)	9000 (3 Poles)

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(28)	Bushing type current transformer		
	Number		2 (per Pole)
	Manufacturer		
	CT ratio		200/1
	Burden	(VA)	30
	Accuracy class		5P
	Over current strength		

10.2 DISCONNECTING SWITCH

(1)	Type		
(2)	Number		1 Set
(3)	Manufacturer		Shenyang High Voltage Switch-gear Factory or Equivalent
(4)	Nominal voltage	(KV)	132
(5)	Rated voltage	(KV)	145
(6)	Rated lightning impulse withstand voltage:		
	Across the isolating distance	(KV)	750
	To earth and between poles	(KV)	650
(7)	Rated one minute power frequency withstand voltage:		
	Across the isolating distance	(KV r.m.s)	315
	To earth and between poles	(KV r.m.s)	275
(8)	Rated frequency	(Hz)	50
(9)	Rated normal current	(A)	1600
(10)	Rated short time withstand current for :		
	Disconnector	(KA)	20
	Earthing switch	(KA)	20

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(11)	Rated duration of short circuit:		
	Disconnector	(Sec)	One
	Earthing switch	(Sec)	One
(12)	Rated peak withstand current	(KA)	50
(13)	Rated mechanical load:		
	Straight load	(N)	500
	Cross load	(N)	170
(14)	Auxiliary voltage		
	A.C	(V)	240/415
	D.C	(V)	220
(15)	Dimension		
	Height	(mm)	1370
	Width	(mm)	1490
	Depth	(mm)	550
(16)	Weight	(kg)	585

10.3 EXTENSION OF BAY

(1)	Type		
(2)	Number		1 Set
(3)	Manufacturer		
(4)	Voltage	(KV)	132

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(5)	Current	(A)	1600
(6)	Frequency	(Hz)	50
(7)	Insulation level BIL full wave	(KV)	650
(8)	Bus bars		
	Size	(mm)	———
(9)	Supporting structures		
	Number		———
	Details		———
(10)	Other accessories		———

10.4 CURRENT TRANSFORMER

(1)	Type		Single Pole Oil Filled
(2)	Number		3 Sets
(3)	Manufacturer		Shenyang Transformer works or Equivalent
(4)	Rated voltage	(KV)	145

(5)	Nominal system voltage	(KV)	132
(6)	Rated primary current	(A)	1600
(7)	Rated secondary current	(A)	1
(8)	Rated frequency	(Hz)	50
(9)	Rated secondary output		
	Measuring core (1)	(VA)	15
	Protective core (2)	(VA)	60
	Protective core (3)	(VA)	30
	Protective core (4)	(VA)	30
(10)	Accuracy class		
	Measuring core		0.5
	Protective core		10P
(11)	Accuracy limit factor for protective core		20
(12)	Short time current ratings:		
	Thermal Ith	(KA)	40
	Dynamic Idyn	(KA)	100
(13)	One minute power frequency withstand voltage	(KV)	275
(14)	Impluse withstand voltage	(KV)	650

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(15)	One minute power frequency withstand voltage secondary winding	(KV)	2
(16)	Minimum height	(mm)	2900
(17)	Minimum phase spacing	(mm)	2000
(18)	Minimum clearance	(mm)	1300
(19)	Minimum creepage distance	(mm)	2400
(20)	Weight per pole	(Kg)	970
(21)	Weight of oil per pole	(Kg)	260
(22)	Type of oil		DB-25 GB 2536-81
(23)	Oil density at 25°C	(gm/ml)	0.86
(24)	Oil viscosity at 25°C	(CS)	30

10.5 BUS COUPLER

(1)	Type		
(2)	Number		1 Set
(3)	Manufacturer		
(4)	Rated voltage	(KV)	132
(5)	Rated current	(A)	1600
(6)	Rated frequency	(Hz)	50
(7)	Insulation level BIL full wave	(KV)	650

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10.6 132 KV UNDERGROUND CABLE FOR STARTING TRANSFORMER

(1)	Type		ZQYD22-132(KV) -1270 (mm^2)
(2)	Number		1 Circuit
(3)	Manufacturer		Shenyang Cable Works
(4)	Rated voltage	(KV)	132
(5)	Highest working voltage	(KV)	152
(6)	Cable permissible oil pressure		
	Maximum	(Pa)	6×10^5
	Minimum	(Pa)	0.2×10^5
(7)	One minute power frequency Withstand voltage	(KV) (r.m.s)	315
(8)	Impulse withstand voltage	(KV) (Peak)	650
(9)	Winding radius	(mm)	> 1275
(10)	Cable weight	(Kg/Km)	12894
(11)	Maximum delivery length per drum	(m)	
(12)	Current carrying capacity at 55°C	(A)	435
(13)	Rated short circuit current	(KA/1S)	29
(14)	Maximum permissible continous conductor temperature	(°C)	80
(15)	Maximum permissible short time conductor temperature	(°C)	95

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(16)	Maximum permissible conductor temperature at short cirucit	(^{o}C)	160
(17)	D.C resistance at 20^{o}C	(ohm/km)	0.06815
(18)	A.C resistance at 65^{o}C	(ohm/km)	0.08114
(19)	Inductance per phase	(mH/km)	0.589
(20)	Capacitance	(uF/km)	0.268
(21)	Max. dielectric loss angle	(tg 8)	$\leq$ 0.0033

11. 6.6 KV CABLE

(1)	Type		XLPE
(2)	Manufacturer		Shenyang Cable Works
(3)	Rated voltage	(KV)	6/10KV
(4)	No. of cores		1, 3
(5)	Size	(mm^2)	500,95
(6)	Length	(m)	

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PLANT COMPUTER SYSTEM

1. CENTRAL PROCESSING UNIT (CPU)

1.1 CPU

(1)	Type		ISBC 86/35 (8086,8087)
(2)	Number		6 Sets
(3)	Manufacturer		Intel
(4)	Logic circuit element		LSI
(5)	Arithmetic operation		Binary Parallel
(6)	Addressing		1M
(7)	Registers		16
(8)	Data word	(bits)	16,32
(9)	Power supply systems		
	Power Consumption	(KVA)	2
	Voltage	(V)	220
	Frequency	(Hz)	50
(10)	Environment protection		
	Temperature	(^{o}C)	0-55
	Humidity range	(%RH)	90% with condensation
	Heat output	(Kcal/hour)	1000
(11)	Floating point hardware Included		Yes ISBC 337A
(12)	Auto restarting unit		Yes

1.2 MAIN MEMORY UNIT

(1)	Capacity	(K bytes)	512K
(2)	Cycle time	(nano secs)	250ns (assumes instruction in the queue)
(3)	Acess time	(nano secs)	300ns (assumes instruction in the quene)
(4)	Error check		Yes
(5)	Expansion	(. bytes)	640K or 1M
(6)	Element		IC

(7)	Incremental	(K bytes)	128 -512

2. AUXILIARY MEMORY UNIT

2.1 FIXED HEAD DISK UNIT OR IC MEMORY

(1)	Type		Winchester M2242A S/B
(2)	Number		6 sets
(3)	Manufacturer		Japan FUJITSU
(4)	Capacity	(M bytes/drive)	54.9
(5)	Acess time	(msec)	10
(6)	Rotation speed	(rpm)	3600
(7)	Transfer rate	(K bytes/sec)	625
(8)	Recording density	(BPI)	9036
(9)	Recording method		MFM
(10)	Power consumption	(Watts)	30
(11)	Maintenance time	(Hour)	8
(12)	MTBF	(Hour)	≥ 10000

3. PROCESS INPUT/OUTPUT UNIT

3.1 ANALOG INPUT SYSTEM

(1)	Maximum number of analog input points		128
(2)	Maximum number of R.T.D points		48
(3)	Maximum number of thermocouple points		272
(4)	Input impedance	(ohms)	10^7
(5)	Maximum source impedance that can be connected to inputs	(ohms)	< 10 K

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(6)	Maximum continuous voltage that can be applied without damage		1500V min
(7)	Surge protection	(KV for msec)	IEEE
(8)	Multiplexer scanning	(Points/sec)	100

3.2 DIGITAL INPUT SYSTEM

(1)	Excitation voltage	(V)	24 DC
(2)	Contact current	(A)	0.5
(3)	Minimum contact duration	(msec)	10
(4)	Maximum number of contact input points		192
(5)	Number of points/module		48
(6)	Maximum continuous voltage that can be applied without damage	(V)	1000 min
(7)	Surge protection	(KV for msc)	IEEE
(8)	Scan rate	(Points/Sec)	10^4

3.3 PULSE INPUT

(1)	Type of input		Sine
(2)	Line impedance	(hm)	10K
(3)	Maximum input frequency	(Hz)	9999
(4)	Maximum number of pulse input points		24
(5)	Number of points/module		8
(6)	Validity cheek		Yes

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3.4 ANALOG OUTPUT

(1)	Maximum number of output points		16
(2)	Number of points/module		16
(3)	Type of output		V,ma
(4)	D/C converter resolution (bits)		12
(5)	Withstanding voltage	(V)	12

3.5 DIGITAL OUTPUT

(1)	Maximum number of output points		48
(2)	Number of points/module		48
(3)	Type of output		Contact
(4)	Operating time	(msc)	10
(5)	Contact rating		1200 times/min
		(VA)	150
		(ohms)	250
(6)	Type of contact		No or NC

4 CABINET OF COMPUTER SYSTEM

(1)	Type		3C
(2)	Number		3 Sets
(3)	Manufacturer		New China Co.
(4)	Dimension		
	Height	(mm)	2120
	Width	(mm)	650
	Depth	(mm)	600
(5)	Thickness of steel plate	(mm)	3.0
(6)	Anti-vibration rubber		Yes

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5. CATHODE RAY TUBE (CRT) UNIT

(1)	Type		HM - 3719A
(2)	Number		9 sets
(3)	Manufacturer		Hitachi
(4)	Number of character		4000
(5)	Kind of character		4
(6)	Character size		18 x 14 7 x 9
(7)	Kind of colour		8
(8)	Key board		Yes
(9)	Display tube size	(Inch)	19
(10)	Power consumption	(VA)	150
(11)	Weight	(Kg)	25

6. PRINTER

(1)	Type		Dot matrix
(2)	Number		9 Sets
(3)	Manufacturer		Star micronics Co.
(4)	Line capacity (characters)		136 - 163
(5)	Printing speed (character/sec)		300
(6)	Dimension		
	Height	(mm)	121
	Width	(mm)	580
	Depth	(mm)	383
(7)	Key board		Yes
(8)	Power consumption	(VA)	275
(9)	Weight	(Kg)	14.8

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7. INPUT/OUTPUT PRINTER

(1)	Type		Dot matrix
(2)	Number		3 Sets
(3)	Manufacturer		TEXAS Instruments Co.
(4)	Line capacity	(characters)	132
(5)	Printing speed	(character/sec)	150
(6)	Dimension		
	Height	(mm)	209.5
	Width	(mm)	660.4
	Depth	(mm)	533.4
(7)	Key board		Yes
(8)	Power consumption	(VA)	50 - 150
(9)	Weight	(Kg)	18.64

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8. TREND RECORDER

(1)	Type		YEW - 3061
(2)	Number		6 Sets
(3)	Manufacturer		Japan
(4)	Number of pens		6
(5)	Chart speeds	(m/minute)	2.3.6.10.20.30.60
(6)	Input signal	(mA)	4 - 20
(7)	Power consumption	(VA)	70
(8)	Dimension		
	Height	(mm)	319
	Width	(mm)	380
	Depth	(mm)	365

9. FLOPPY DISK DEVICE

(1)	Type		Shugart 455
(2)	Number		6 Sets
(3)	Manufacturer		Japan
(4)	Storage capacity	(K bytes)	640
(5)	Acess time	(msec)	93
(6)	Packing density	(BPI)	5876
(7)	Number of tracks		40
(8)	Transfer rate	(K bytes/sec)	250
(9)	Number of connectable drives		2 per Controller
(10)	Dimension		
	Height	(mm)	41.1
	Width	(mm)	146.1
	Depth	(mm)	202.0

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(11)	Power consumption	(Watts)	9.6

10. HARD COPY UNIT

(1)	Type		Multi Colour
(2)	Number		3 Sets
(3)	Manufacturer		Japan
(4)	Copying method		Dot matrix
(5)	Copy size	(mm)	215.9x279.4
(6)	Copying speed		5 min
(7)	Exposure time	(sec)	3
(8)	Developing time		5 min
(9)	Type of colours		8
(10)	Dimension		
	Height	(mm)	130
	Width	(mm)	600
	Depth	(mm)	400
(11)	Weight	(Kg)	30
(12)	Power consumption	(VA)	200

11. OPERATOR'S CONSOLE

(1)	Type		Selection type with key board function
(2)	Number		3 sets
(3)	Manufacturer		New China Co.
(4)	Key sets		
	Alphanumeric	keys	62
	Functional	keys	16
	Control	keys	20
	Other	keys	10

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(6) Dimension			
Height		(mm)	500
Width		(mm)	300
Depth		(mm)	250
(7) Selection method of function			Selection key
(8) Power consumption		(VA)	20
(9) Weight		(Kg)	15
12. OPERATOR'S DESK			
(1) Type			3C
(2) Number			3 Sets
(3) Manufacturer			New China Co.
(4) Dimension			
Height		(mm)	750
Width		(mm)	2100
Depth		(mm)	900
(5) Weight		(Kg)	100
(6) Sound proof cover			Yes
13. PRINTER DESK			
(1) Type			3C
(2) Number			6 Sets
(3) Manufacturer			New China Co.
(4) Dimension			
Height		(mm)	700
Width		(mm)	800
Depth		(mm)	700
(5) Weight		(Kg)	50
(6) Sound proof cover			Yes

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14. ENGINEER'S DESK

(1)	Type		3C
(2)	Number		3 Sets
(3)	Manufacturer		New China Co.
(4)	Dimension		
	Height	(mm)	750
	Width	(mm)	1250
	Depth	(mm)	1000
(5)	Weight	(Kg)	100
(6)	Sound proof cover		Yes

15. SYSTEM AVAILABILITY

(1)	Mean time between failure 2000 hours or more	Yes
(2)	Availability 99.5% or more	Yes

16. SOFT WARE

(1)	Basic operation system	Yes
(2)	Basic application software	Yes
(3)	Diagnostic software	Yes
(4)	Application software package	Yes
(5)	Utility program	Yes
(6)	Turbine startup sequence monitor software	Yes
(7)	Plant status monitor system	Yes
(8)	Performance computation system	Yes
(9)	Trip sequence	Yes
(10)	Event recall	Yes
(11)	Graphic display	Yes
(12)	Hard copy	Yes

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SECTION VI

ARCHITECTURAL, STRUCTURAL AND CIVIL WORKS

1. ARCHITECTURAL AND STRUCTURAL WORKS

(1) Structural Steel for Buildings

(a) Machine House Buildings

Building volume	(m^3)	200288
Weight		
A3	(ton)	1442
A3F	(ton)	2380
16Mn	(ton)	107
Crane rails	(ton)	37
H.T. bolt	(ton)	25
Unfinished bolt	(ton)	6
Anchor bolt	(ton)	52
Anchor frame and templet	(ton)	12
Service bolt for erection	(ton)	14
Total weight	(ton)	4075
Steel maker		Shanghai Steel Plant or Anshan Steel Plant
Bolt maker		Xianfeng Bolt Factory, Shanghai
Steel fabricator		China-Emoto Construction Co.Ltd. Dalian
Grouting for column base (Non-shrink mortar 50 mm)	(m^2)	219
Rust preventive paint spec.		Red lead yust preventive paint Type Y53-1 Standard HG2-581-74
" maker		Shanghai Paint Mfg. Co.

(b) Auxiliary Buildings

Total building volume	(m^3)	Technical Building 5164 Water Treatment Bldg. 11341 Yard instrument air compressor room 542 Acid-alkali house 1874 H2 gas generator goom 3637
Weight		
A3	(ton)	
A3F	(ton)	
16Mn	(ton)	

	H.T. bolt	(ton)	_____
	Unfinished bolt	(ton)	_____
	Anchor bolt	(ton)	_____
	Anchor frame and templet	(ton)	_____
	Service bolt for erection	(ton)	_____
	Total weight	(ton)	_____
	Steel maker		Shanghai Steel Plant or Anshan Steel Plant
	Bolt maker		Xianfeng Bolt Factory Shanghai
	Steel fabricator		China-Emoto Construction Co.Ltd. Dalian
	Grouting for column base (Non-shrink mortar 50 mm)	(m^2)	_____
	Rust preventive paint spec.		Red lead rust preventive Paint Type Y53-1 Standard HG2-581-74
	" maker		Shanghai Paint Mfg. Co.
(c)	Central control room area		
	Building volume	(m^3)	17887
	Weight		
	A3	(ton)	170
	A3F	(ton)	240
	16Mn	(ton)	30
	H.T. bolt	(ton)	5
	Unfinished bolt	(ton)	1
	Anchor bolt	(ton)	0.5
	Anchor frame and templet	(ton)	4
	Service bolt for erection	(ton)	2
	Total weight	(ton)	452.5

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Steel maker			Shanghai Steel Plant or Anshan Steel Plant
Bolt maker			Xianfeng Bolt Factory, Shangha
Steel fabricator			China-Emoto Construction Co. Ltd. Dalian
Grouting for column base (Non-shrink mortar 50 mm)		(m^2)	30
Rust preventive paint spec.			Red lead rust preventive paint Type Y53-1 Standard HG2-581-74
" maker			Shanghai Paint Mfg. Co.
(d) Elevator shaft			
Type			Rectangle
Number			3 Sets
Structural system			Steel truss
Shaft dimension		(m)	2.56x2.80
Total height		(m)	58.8
Structural steel weight			
A3		(ton)	39.6
A3F		(ton)	73.9
Others		(ton)	30
Total		(ton)	143.5
Steel maker			Shanghai Steel Plant or Anshan Steel Plant
Steel fabricator			China-Emoto Construction Co., Ltd. Dalian
Grouting for base (Non-shrink mortar 50 mm)		(m^2)	6.0
Rust preventive paint spec.			Red lead preventive Paint Type Y53-1 Standard HG2-581-74
" maker.			Shanghai Paint Mfg. Co.
(2) Steel Flue for Stack			
(a) Steel flue			3 Sets
Number			4.2
Inside dia meter		(m)	3.44
Top nozzle diameter		(m)	
Steel plate thickness		(mm)	Top 8 Bottom 14

Weight			
Steel plate 09Cup		(ton)	470
" SS41		(ton)	
Stainless steel OCr19Ni9		(ton)	
Steel shape (H.C.L.) A3.A3F		(ton)	14
Anchor bolts A3F		(ton)	46
Anchor frame		(ton)	1
Total weight		(ton)	6
Steel maker			537
Steel fabricator			Shanghai Steel Plant or Anshan Steel Plant
Grouting for base (Non-shrink mortar)		(m^2)	China-Emoto Construction Co. Ltd. ~~Dalian~~
(b) Metal works			8
Number of platform			4
Hand rail			
Total length		(m)	246
Grating			
Total area		(m^2)	78
Thickness		(mm)	32
Embedded steel (SS41 and round bar)		(ton)	3
			Top / Others
Painter trolly			
Material			
Ladder (with safety cage)			
Length		(mm)	256.3
(c) Lining			YW-P1
Lining material			50
" thickness		(mm)	

	Maker		Fire-Resistant Material Factory, Wangchun, China
	Heat transmission ratio		0.43~0.75 Kcal/m.hr.C
	Heat durability	(^{o}C)	more than 300 ^{o}C
	Chemical component		Sio2, Al_2O3
	Specific gravity		1.9~2.0
	Total covered area	(m^3)	6010
(d)	Insulation		
	Insulation material		Rock-wool plate
	" maker		Beijing New Patter Building Material Plant
	" thickness	(mm)	60
	Total covered area	(m^2)	6170
	Heat transmission ratio		0.03 Kcal/m.hr.C.
	Heat durability		more than 400^{o}C
	Lagging material		Aluminum Plate
	" thickness	(mm)	0.3
	" covered area	(m^2)	375
(e)	Miscellaneous		
	Ash discharge pipe material		———
	" size		———
	Ash discharge valve type		———
	" size		———
(3)	Waterproofing work		
(a)	Oil caulking		Nanhui Waterproofing Paint Material Factory, Shanghai
	Maker		
	Size and length (mm x mm x m)		20mm x 30mm x 9456m
			mm x mm x m
			mm x mm x m

(b) Polysulfide sealing

Maker

Size and length
(mm x mm x m)

mm x mm x m

mm x mm x m

mm x mm x m

mm x mm x m

mm x mm x m

Durability

± % at 90°C

(4) Metal work

(a) Grating

Maker — China-Emoto Construction Co.Ltd. Dalian

Quantity t = 32 mm (m^2) — 955

t = 25 mm (m^2) — 133

t = (m^2)

(b) Metal flashing

Maker/fabricator — Jinzhon Power Building Erection Construction Company

Material — Colored Metal

Thickness (mm) — 0.7

(c) Hand rail

Material — Galvanized Steel Pipe

Length H = 1,100 mm (m) — 1071

Removable (m) — 96

(d) Steel ladder

Length

Machine house building (m) — 116

Stack (m)

Others (m) — 18

(e) Trench cover and frames

Checkered plate

Thickness (mm) x quantity	(m^2)	
		(mm) x (m^2)
		(mm) x (m^2)
		(mm) x (m^2)

(f) Toe plate

Toe plate thickness	(mm)	6
Total length of toe plate	(mm)	121
Total weight	(ton)	0.6

(g) Border strip surrounding of T/G pedestal at operating floor

Material		Stainless Steel
Length	(m)	840

(h) Expansion joint/cover

Material

Operating floor	Stainless steel Plate
Mezzanine floor	"
Exterior wall	"

(i) Machine hatch of auxiliary area

Area (m^2) x Number of floor — 2.91(m^2) x 3

(j) Free access floor

Maker — Tianjin Machine House Equipment Facotry.

Material — Aluminum alloy die cast

Area of computor room (m^2) — 260

(k) Embedded plate, hook and sleeve

Miscellaneous metal (ton) — 50

(5) Doors and Louvers Works

Steel door and louvers

Maker/fabricator		Beijing Building Fire Metals Factory Shanghai Steel Window Plant
Quantity	door	(m^2) 363
	louver	(m^2) 344.5

Door knobs and key system

Maker	Beijing Building Fire Metals Factory

Motor driven rolling door

Maker		Changzhou Electric Power Repair-Produce Factory
Quantity	(m^2)	296

(6) Painting Work

Acid proof paint

Maker		Shanghai Paint Factory
Quantity	(m^2)	453

Acid and alkali proof coating

Maker		———
Base material		Cement Mortar
Objective ph		pH - pH

(7) Interior Finish Work

(a) Acid proof vinyl tile with base

Maker		Tianjin No.1 Plastic Factory
Size W x H x thickness		700 Wx1600H x 3 T
Quantity		
Machine house building	(m^2)	96
Technical building	(m^2)	143
Auxiliary buildings	(m^2)	———

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(b) Acoustic board (Incombustible)

Maker		Beijing Building Meterial Products Plant
Material		Mineral wool acoustic board
Size W x H x thickness		600x600x12
Quantity		
Machine house building	(m^2)	948
Technical building	(m^2)	
Auxiliary buildings	(m^2)	

(c) Glass wool

Maker		Dalian Glass Plate
Thickness	(mm)	50
Quantity		
Machine house building	(m^2)	2214
Technical building	(m^2)	830
Auxiliary buildings	(m^2)	39

(d) Suspended ceiling and ceiling access

Maker		Beijing New Petten Building Material Plant
Material		
Main runner		Cold-rolled Zinc bonded light steel
Cross furring		"
Quantity	(m^2)	1640
Number of ceiling access		4
Size of "	(m)	0.6 W x 0.6 L

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(8) Elevator Work

(a) Elevator equipment

Number		3
Maker		Tianjin Elevator Company
Capacity		kg (person)
Control		
Speed		1.5 m/S
Car dimension (m x m x m)		1.85W x 2.1L x2.5H
Door dimension (m x m)		1.1W x 2.2 H
Stops (floors)		7
Travel	(m)	49.8
Motor		kW x V x Hz

(9) Electrical Work for Stack

(a) Lighting system

Lighting panel

Type		XM-4
Thickness of steel plate	(mm)	3.2
Dimension		
Height	(mm)	400
Width	(mm)	500
Depth	(mm)	50
Weight	(kg)	30

Cable

Cross-linked polythylene insulated cable

Manufacturer	NA

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Kind		NA
Total length	(m)	NA
Rigid steel conduit		
Manufacturer		ASTF
Kind		ϕ 3/4 inch
Total length	(m)	300
Light fixture		
Manufacturer		Shenyang Lighting Fixture Corporation
Quantity and type		20,RR40
(b) Aircraft warning light system		
Control panel		
Type		XXGM
Thickness of steel plates	(mm)	1.6
Dimension		
Height	(mm)	460
Width	(mm)	500
Depth	(mm)	170
Weight	(kg)	30
Cable		
Cross-linked polyethylene insulated cable		
Manufacturer		Shenyan Cable Works
Kind		VV29, PVC
Total length	(m)	180
Rigid steel conduit		ASTE
Manufacturer		
Kind		ϕ 1 inch

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	Total length	(m)	200
	Aircraft warning light		
	Manufacturer		Shenyang Lighting Fixture Corporation
	Quantity and type		16xHZA-1,100W
(c)	Lightning protection system		
	Elevation rod		
	Type		12mm diameter 460mm Length
	Manufacturer		
	Quantity		6
	Test terminal box		
	Type		NA
	Manufacturer		NA
	Thickness of steel plates	(mm)	NA
	Dimension		
	Height	(mm)	NA
	Width	(mm)	NA
	Depth	(mm)	NA
	Weight	(kg)	NA
	Annealed copper stranded conductor		
	Manufacturer		Shenyang Cable Works
	Kind		TJ
	Total length	(m)	320
	Conduit		
	Unplasticized polyvinyl chloride conduit		
	Manufacturer		NA
	Kind		NA
	Total length	(m)	NA

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10) Elevation 10.000 floors between machine house buildings and boilers.

a) Weight

A_3F	(Ton)	30.0
H.T. bolt	(Ton)	0.3
Service bolt for erection	(Ton)	0.1

b) Grating

Quantity	T=32 mm	(m^2)	103.0

11) Top covers of boilers

a) Weight

A_3F	(Ton)	130.5
Anchor frame and templet	(Ton)	26.0
Anchor bolt	(Ton)	2.0

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2. BUILDING SERVICE FACILITIES

(1) Air Conditioning and Ventilation System

(a) Absorption liquid chiller

		Main	Stand-by
Manufacturer		Shangai First Refrigeration Machinery Works	
Number		XZ-100	XZ-50
Chilled water leaving temp.	(^{o}C)	7	7
Cooling capacity	(US tons)	300	150
Chilled water			
Flow rate	(m^3/min)	200	100
Condensing water			
Flow rate	(m^3/min)		
Steam			
Consumption rate	(kg/1)	3000	1500
Pressure (Gauge indication)	(kg/cm^2)	1.0	1.0
Pump motor capacity			
Solution	(kW)	5.5	2.2
Refrigerant	(kW)	2.2	2.2
Dimension	(mm)	5465x2150 x28000	5370x1660 x23600
Weight	(kg)	12000	7100
Quantity	(set)	1	1

(b) Air handling unit for Central control room area

		Central control room area	Central control room area
Manufacturer		Jing Jiang Airconditioning Equipment Factory	
Number		BKJ-6	BKJ-4
Air volume	(CMM)	60000	40000
Chilled water			
Inlet	(^{o}C)	7	7
Outlet	(^{o}C)	12	12
Flow rate	(m^3/min)	70	56

		Central control room area	Central control room area
Cooling capacity	(kcal/h)	354000	278000
Pre-filter			
Filter element		Artificial Fibres	Artificial Fibres
Fan motor	(kW)	37	30
Dimension	(mm)	9700x3310x3000	8200x2560x2270
Weight	(kg)	17100	9900
Quantity	(set)	1	2

(c) Cooling tower

Type		OT-VI-300	OT-VI-150
Manufacturer		Jiang Su Hai Men Cooling Tower Factory.	
Number		1	1
Cooling water			
Ambient W.B. temp.	(^{o}C)	28	28
Inlet	(^{o}C)	43	43
Outlet	(^{o}C)	33	33
Flow rate	(m^3/min)	300	150
Fan motor	(kW)	17	7.5
Dimension	(mm)	9790x6640x6900	7650x4360x6170
weight	(kg)	26300	14500
Quantity	(set)	1	1

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			Central control room area	Central control room area

(d) Chilled water pump

Type		8sh-9A	6sh-6A
Manufacturer		Shen Yang Pump Manufactory	
Number		2	—
Capacity	(l/min)	3~5.4	1.9~3
Discharge pressure	(kg/cm^2)	50~69	55~67
Motor	(kW)	55	37
Weight	(kg)	241	165
Quantity	(set)	2	2

(e) Cooling water pump

Type		8sh-9	6sh-6A
Manufacturer		Shen Yang Pump Manufactory	
Number		2	—
Capacity	(l/min)	3.6~5.9	1.9~3
Discharge pressure	(kg/cm^2)	50~69	55~67
Motor	(kW)	75	37
Weight	(kg)	242	165
Quantity	(Set)	2	2

(f) Supply fan for machine house buildings

Type		—
Manufacturer		—
Number		—
Capacity	(m^3/h)	—

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		Machine house building	Machine house building
Static pressure	(mmAq)	____	____
Motor	(kW)	____	____
Weight	(kg)	____	____
Quantity	(set)	____	____
Supply fan for Auxiliary buildings		Auxiliary buildings	Auxiliary buildings
Type		____	____
Manufacturer		____	____
Number		____	____
Capacity	(m^3/h)	____	____
Static pressure	(mmAq)	____	____
Motor	(kW)	____	____
Weight	(kg)	____	____
Quantity	(set)	____	____
Supply fan for Auxiliary buildings			
Type		____	____
Manufacturer		____	____
Number		____	____
Capacity	(m^3/h)	____	____
Static pressure	(mmAq)	____	____
Motor	(kW)	____	____
Weight	(kg)	____	____
Quantity	(set)	____	____

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(g) Exhaust fan for Machine house buildings

		Machine house buildings	Machine House buildings
Type		____	____
Manufacturer		____	____
Number		____	____
Capacity	(m^3/h)	____	____
Static pressure	(mmAq)	____	____
Motor	(kW)	____	____
Weight	(kg)	____	____
Quantity	(set)	____	____

Exhaust fan for Machine house buildings

Type		____	____
Manufacturer		____	____
Number		____	____
Capacity	(m^3/h)	____	____
Static pressure	(mmAq)	____	____
Motor	(kW)	____	____
Weight	(kg)	____	____
Quantity	(set)	____	____

Exhaust fan for technical building		Technical building	Technical building
Type		____	____
Manufacturer		____	____
Number		____	____

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		Technical building	Technical building
Capacity	(m^3/h)	——	——
Static pressure	(mmAq)	——	——
Motor	(kW)	——	——
Weight	(kg)	——	——
Quantity	(set)	——	——
Exhaust fan for Auxiliary buildings		Auxiliary buildings	Auxiliary buildings
		(1)	(2) (3) (4)
Type		Centrifugal	Axial Flow
Manufacturer		Shen Yang People Fan Works	Shen Yang People Fan Works
Number		F4-62-11 No.4	T30 No.4 / T30 No.5 / T30 No.5
Capacity	(m^3/h)	2750	3880 / 5450 / 6500
Static pressure	(mmAq)	31	8.3 / 11.6 / 12.4
Motor	(kW)	2.2	0.55 / 0.55 / 0.8
Weight	(kg)	30	15 / 20 / 20
Quantity	(set)	2	15 / 21 / 9
(h) Roof fan for Machine house building		Machine house building	Machine house building
Type		WT40-11 No.14	——
Manufacturer		Wu Han Blower Manufactory	Wu Han Blower Manufactory
Number		30	——
Capacity	(m^3/h)	67960	——
Static pressure	(mmAq)	12.7	——
Motor	(kW)	15	——

		Machine house building	Machine house building
Weight	(kg)	1200	———
Quantity	(set)	30	———
Roof fan for Auxiliary buildings		Auxiliary buildings	Auxiliary buildings
		(1) (2) (3)	(1) (2) (3)
Type		WT-35-11 No.7.1 ———	———
Manufacturer		Wu Han Blower Manufactory ———	Wu Han Blower Manufactory
Number		5	———
Capacity	(cm^3/h)	10000	———
Static pressure	(mmAq)	12.7	———
Motor	(kW)	2.2	———
Weight	(kg)	320	———
Quantity	(set)	5	———
(i) Air filter for Machine house building		Machine house building	Machine house building
Type		——— ——— ———	——— ——— ———
Manufacturer		Jiang Su Zhou Environmental Protection Equipment Manufactory	
Number		2TL-II-5	2JL-II-4
Capacity	(m^3/h)	40000	30000
Air velocity	(m/sec)	2.5	2.5
Material			
Filter element		Artificial Fibres	Artificial Fibres

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		Machine house building (1)	(2)	(3)	Machine house building (1)	(2)	(3)
Pressure loss	(mmAq)	9			9		
Dust collection efficiency		75~85%			75~85%		
Motor	(kW)	0.25			0.25		
Dimension	(mm)	2158x700x2088			1638x700x2088		
Quantity	(set)	2			2		

Air filter for technical building		Technical building	Technical building
Type		——	——
Manufacturer		——	——
Number		——	——
Capacity	m^3/h)	——	——
Air velocity	(m/sec)	——	——
Material			
Filter element		——	——
Pressure loss	(mmAq)	——	——
Dust collection efficiency		——	——
Motor	(kW)	——	——
Dimension	(mm)	——	——
Quantity	(set)	——	——

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(j) piping

Central control room area

Chilled water line

Material	Size(mm)	Weight of Piping(t)
	ϕ108x4	0.5
	ϕ159x4.5	2.0
	ϕ133x4	1.5
	ϕ89x3.5	0.8
	ϕ159x4.5	0.3
	ϕ219x6	0.2

Drainage line

Valve

Size(mm)	set
Dg125	4
Dg100	2

Others

Chilled water line

Material	Size(mm)	Weight of piping (t)
	ϕ108x4	4.0
	ϕ89x3.5	0.2
	Dg100	4.0
	Dg80	4.0

Drainage line

Valve

Size(mm)	set
Dg80	4
Dg100	4

(k) Insulation and lagging pipe

Material — Rock Wool

Length (m) — 700

Duct

Material — Rock Wool

Area (m^2) — 600

(l) Painting

Pipe

Material — Rust Protection

Duct

Material — Rust Protection

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(2) Water Supply, Sewage and Sanitary System

(a) Electric water heater

		Machine house building	Central Control room area
Type		K-250	K-250
Manufacturer		Pingbei Electrical Equipment Plant	Orio
Number			
Heater capacity	(kW)	12	3
Dimension	(mm)	590x371x1090	Ø420x560
Weight	(kg)	58	6.9
Quantity	(set)	4	4

(b) Electric water heater

Type		YS06-50J	
Manufacturer		Guangzhou Metallurgy Machine Plant	
Number			
Water storage capacity	(U.S. gallon)		
Heater capacity	(kW)	18	18
Dimension	(mm)	900x450x250	
Weight	(kg)	approx. 60	60
Quantity	(set)	4	4

(c) Waste water pump

Type		Submerged	
Manufacturer		Shijiazhuang Pump Plant	
Number			
Capacity	(1/min)	360	
Discharge pressure	(kg/cm^2)	2.01	
Motor	(kW)	7.5	
Weight	(kg)	210	

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		Machine house building	Central Control room area
Quantity	(set)	6	4

(d) Valve

Machine house building

	Size (mm)	Set
Valve	32	10
	50	10
	80	5
	100	2

Auxiliary buildings

	Size (mm)	Set
Valve	20	10
	32	5
	52	2
	100	2

(e) Insulation and lagging

Material			
Length	(m)		

(f) Equipment for septic tank

		Machine house building	Central Control room area
Capacity	(m^3/day)		
BOD concentration in discharge water	(ppm)	150	150
Blower capacity	(m^3/h)		
Waste pump capacity	(m^3/h)	21.6	21.6
Accessories			

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(3) Secondary Electrical and Automatic Control Equipment

(a) Control panel for Machine house building

		Machine house building (1)	Machine house building (2)
Type		Indoor	Indoor
Thickness of steel plates	(mm)	3.2	3.2
Dimension			
Height	(mm)	2200	2200
Width	(mm)	800	800
Depth	(mm)	600	600
Weight	(kg)	400	400
Accessories			

		Central Control room area (1)	Central Control room area (2)
Control panel for technical building			
Type		Indoor	Indoor
Thickness of steel plates	(mm)	3.2	3.2
Dimension			
Height	(mm)	2200	2200
Width	(mm)	800	800
Depth	(mm)	600	600
Weight	(kg)	400	400
Accessories			

Other panels for Machine house building		Machine house building
Type		Indoor
Thickness of steel plates		3.2
Dimension		
Height	(mm)	2200
Width	(mm)	800
Depth	(mm)	600
Weight	(kg)	400
Accessories		———

(b) Cable

		Machine house building	Central Control room area	Auxiliary building
		600V	600V	600V
Power cable				
Manufacturer		Shenyang Cable Works		
Kind		PVC	PVC	———
Total length	(m)	20000	20000	———
Control cable				
Manufacturer		Shenyang Cable Works		
Kind		PVC	PVC	———
Total length	(m)	30000	30000	———
Others				
Manufacturer		———	———	———
Kind		———	———	———
Total length	(m)	———	———	———

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					Machine house building	Central Control room area	Auxiliary building
	600V	600V	600V	600V	600V	600V
Conduit						
Manufacturer					Anshan Steel Pipe Works		
Kind					Steel	Steel	
Total length	(m)				20000Kg	10000Kg	
Cable tray							
Manufacturer					Jixi Cable Tray Factory		
Kind					Steel	Steel	
Total length	(m)						
Total weight	(kg)				150000	50000	

(c) Automatic control equipment

Type _____

Manufacturer _____

Kind and quantity _____

_____

_____

(d) Painting

Material _____

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3. INTAKE WATER STRUCTURES

(1) Piping Bridge

(a) Structural dimensions

Span length	(m)	48.5
Height of main truss	(m)	4.0
Width between main trusses	(m)	4.1

(b) Structural data

Structural steel

Material (Grade)		Carbon Steel
Size of the major members		
Upper chord of main truss		H-300x300 x10x15
Lower chord of main truss		H-300x300 x10x15
Diagonal member of main truss		H-294x200 x8x12
Lateral bracings		L-150x150x12 H-194x150x6x9
Portal bracings		H-300x300x10x15 H-300x300x10x15
Total weight	(ton)	201.0

Splices and connections

High strength bolts	
Material	Alloy steel
Number of bolts	8000

Paintings

Material	Painting for preventing from corrosion

Bearings

Type	Bearing of plate supported
Material	Carbon steel
Size of the bottom shoe plate(mm)	510x280x25
Fixed	510 x 280
Movable	510 x 280

(c) Footway

Floor

Material		Carbon steel
Area	(m^2)	4x50x1=200
Weight	(kg)	15780

Hand rail

Material		Carbon steel
Height	(m)	1.2
Total length	(m)	1200
Weight	(kg)	4680

(2) Bridge Piers (P1 - P4)

(a) Piles

Diameter	(m)	ϕ 1.2
Number of piles		16
Total length	(m)	304
Concrete		
Total volume	(m^3)	344

Reinforcing bars

Diameter (mm)	Weight (ton)
ϕ 20	16.5
ϕ 8	2

Steel casing

Material (Grade)		Carbon steel
Diameter	(m)	ϕ 1.2
Thickness	(mm)	10
Total weight	(ton)	18

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(b) Concrete slab and bracings

Dimensions of the slab (plan)

P1	(m)	4.5 x 6.0
P2-P4	(m)	4.5 x 6.0
Concrete		
Total volume	(m^3)	133

Reinforcing bars

	Diameter (mm)	Weight (Ton)
	ϕ 22	6.5
	ϕ 12	2.5
	ϕ 8	1.6

Structural steel

Material (Grade)		Carbon steel
Major members		H-300x300x10x15 L-200x200x15
Weight	(ton)	9.8

(3) Intake tower

(a) Piles

Diameter	(m)	ϕ 1.2
Number of piles		10
Total length	(m)	187
Concrete		
Volume	(m^3)	211

Reinforcing bars

	Diameter (mm)	Weight (ton)
	ϕ 20	11.0
	ϕ 8	1.6

Steel casing

Material (Grade)		Carbon steel
Diameter	(m)	ϕ 12

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Thickness	(mm)	10
Weight	(ton)	11.6

(b) Concrete slab and bracings

Diamensions of the slab (plan)	(m)	19.7 x 9.5
Concrete		
Material (Fc: kg/cm^2)		250
Volume	(m^3)	186

Reinforcing bars

	Diameter (mm)	Weight (ton)
	ϕ 22	11.0
	ϕ 12	4.0
	ϕ 8	3.5

Structural steel		
Material (Grade)		Carbon steel
Major members		I-250x118x10x13 L-200x200x16
Weight	(ton)	58.2

(c) Steel frame supporting overhead crane

Material (Grade)		Carbon steel
Major members		H-500x300 x11x18
		L-200x125x12
Weight	(ton)	17.6

(d) Miscellaneous facilities

Roofing		
Material		Alloy of aluminium
Area	(m^2)	8
Hand rail		
Material		Carbon steel

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Height	(m)	1.2
Length	(m)	172
Weight	(kg)	416
Cover plates		
Material		Carbon steel
Size and thickness	(mm)	ϕ 800 x 4
Number of plates		4

(4) Valve pit

(a) Dimensions of the pit (inside) (m)

4 x 6 x 7 (Height)

(b) Piles (both for the pit and intake water control room)

Diameter	(m)	ϕ 1.2
Number of piles		8
Total length	(m)	117
Concrete		
Volume	(m^3)	133

Reinforcing bars

Diameter (mm)	Weight (ton)
ϕ 20	7.1
ϕ 8	0.8

(c) Reinforced concrete

Concrete		
Volume	(m^3)	166

Reinforcing bars

Diameter (mm)	Weight (ton)
ϕ 22	8.2
ϕ 12	5.0

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(d) Earthwork

Excavation	(m^3)	150
Ripraps	(m^3)	120
Leveling concrete	(m^3)	15
Backfilling	(m^3)	80

(5) Temporary work

(a) Erection scheme

The Contractor shall brief the erection scheme of the intake water structures.

The erection scheme is that the temporary bridge for erecting is constructed at first, on which cast-in-place piles are builded and trusses of bridge are cramed and installed.

(b) Temporary facilities

The Contractor shall name the necessary facilities, including required area of construction yard by the intake site, in accordance with his erection scheme.

Temporary facilities as following :

(1) Erection machines:
Erection machines include such as drills, cranes and concrete machines etc.

(2) Necessary materials:
H-400x400x13x21 - 1100T 1" steel pipe - 3.8T
I20a - 26.8T reinforced concrete - 400m^3
L-75x75x10 - 35.4T

(3) Required area of construction yard:
The area is about 8000m^2. It locates the bank near the pipe bridge.

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SCHEDULE OF CONTRACTOR'S REPRESENTATIVES, MANUFACTURER'S SPECIALISTS, ERECTION SPECIALISTS, TECHNICIANS, ERECTION WORKERS AND LABOURS, AND TECHNICAL ADVISERS

For each unit

Position	Number of Persons	Months	Total Man-Months	Remarks
1. CONTRACTOR'S REPRESENTATIVES				
(1) Project Manager	1	45	45	
(2) Deputy Project Manager	8	35	280	
(3) Administrator	22	22	484	
(4) Mechanical Engineer	2	33	66	
(5) Electrical Engineer	2	33	66	
(6) Civil Engineer	4	33	132	
(7) Others	20	24	480	
2. MANUFACTURER'S SPECIALISTS				
2.1 Manufacturer's specialists for installation				
(1) Steam generators	5	16	80	
(2) Steam generator auxiliaries				
(a) Soot blowers	1	6	6	
(b) Air Preheaters	2	6	12	
(c) Forced draft fans	1	4	4	
(d) Feed water pumps	2	6	12	

For each unit

Position	Number of Persons	Months	Total Man-Months	Remarks
(e) Burner control system	3	4	12	
(f) Boiler control system	2	12	24	
(g) Control equipments	2	12	24	
(h) Compressor system	1	3	3	
(i) Others	2	3	6	
(3) Steam turbine	5	12	60	
(4) Steam turbine auxiliaries				
(a) Condensers	1	8	8	
(b) Cooling towers	2	8	16	
(c) Others	2	6	12	
(5) Common auxiliaries				
(a) Fire Protection	2	6	12	
(b) House boiler	2	6	12	
(c) Chlorination equipment	2	6	12	
(d) Others	2	6	12	
(6) Generators and electrical equipments				

Position	Number of Persons	Months	Total Man-Months	Remarks
				For each unit
(a) Generators	4	12	48	
(b) Excitation system	1	8	8	
(c) Main, starting and auxiliary transformers	2	6	12	
(d) 220 KV Switchgear	1	6	6	
(e) 132 KV Switchgear	1	6	6	
(f) 6.6 KV and 0.4 KV Switchgear	1	6	6	
(g) DC system	1	6	6	
(h) Communication system	1	6	6	
(i) Diesel engine generators	1	6	6	
(j) Others	2	6	12	
(7) Computer system	4	6	24	
(8) Architectural/ structural and building service facilities				
(a) Machine hall and other buildings general	2	24	48	
(b) Steel structure erection	2	10	20	

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Position	Number of Persons	For each unit: Months	For each unit: Total Man-Months	For each unit: Remarks
(c) Airconditioning and ventilation system	1	6	6	
(d) Water supply, sewrage and sanitary system	1	8	8	
(e) Stack erection	1	8	8	
(f) Elevator system	1	6	6	
(g) Others	1	6	6	
(9) Civil Works				
(a) Steel truss	1	10	10	
(b) Shoe of piping bridge	1	10	10	
2.2 Manufacturer's specialists for operation (Startup)				
(1) Steam generators	4	4	16	
(2) Steam generator auxiliaries	2	3	6	
(3) Steam turbines	3	4	12	
(4) Steam turbine auxiliaries	2	3	6	
(5) Generators	2	4	8	
(6) Electrical Equipments	3	3	9	

For each unit

Position	Number of Persons	Months	Total Man-Months	Remarks
(7) Main, starting and auxiliary transformers	2	3	6	
(8) Computer system	3	3	9	
(9) Airconditioning	1	3	3	
(10) Others	1	3	3	
2.3 Technical Advisers for operation and maintenance advise after taking over				
(a) For steam generator and auxiliary equipment	1	12	12	
(i) Education				
College				
(ii) Experience years				
Above 10 years				
(b) For steam turbine and auxiliary equipment	1	12	12	
(i) Education				
College				
(ii) Experience years				
Above 10 years				

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Position	Number of Persons	For each unit: Months	For each unit: Total Man-Months	Remarks
(c) For control system	1	12	12	
(i) Education				
College				
(ii) Experience years				
Above 10 years				
(d) For others	2	12	24	
_____(specify)				
(i) Education				
College				
(ii) Experience years				
Above 10 years				
3. ERECTION SPECIALISTS, TECHNICIANS AND LABOURS				
3.1 Erection specialists				
(1) Steam generators	2	24	48	
(2) Steam generators auxiliaries	1	24	24	
(3) Steam turbines	2	24	48	
(4) Steam turbine auxiliaries	1	24	24	
(5) Generator and electrical equipment	2	24	48	

Position	Number of Persons	Months	Total Man-Months	For each unit Remarks
(6) Common auxiliaries	2	24	48	
(7) Computer system	2	12	24	
(8) Intake water system	2	24	48	
(9) Others	1	24	24	
3.2 Erection technician				
(1) Welder	2	18	36	
(2) Foreman	6	18	108	
(3) Electrician	2	18	36	
(4) Piping	2	18	36	
(5) Concrete work	1	12	12	
(6) Control and instrument system	2	18	36	
(7) Operators	2	18	36	
(8) Others	1	18	18	
3.3 Erection works and labours				
(1) Expatriate	400	18	7200	
(2) Domestic	100	12	1200	

SECTION VIII

HEAT BALANCE DIAGRAMS

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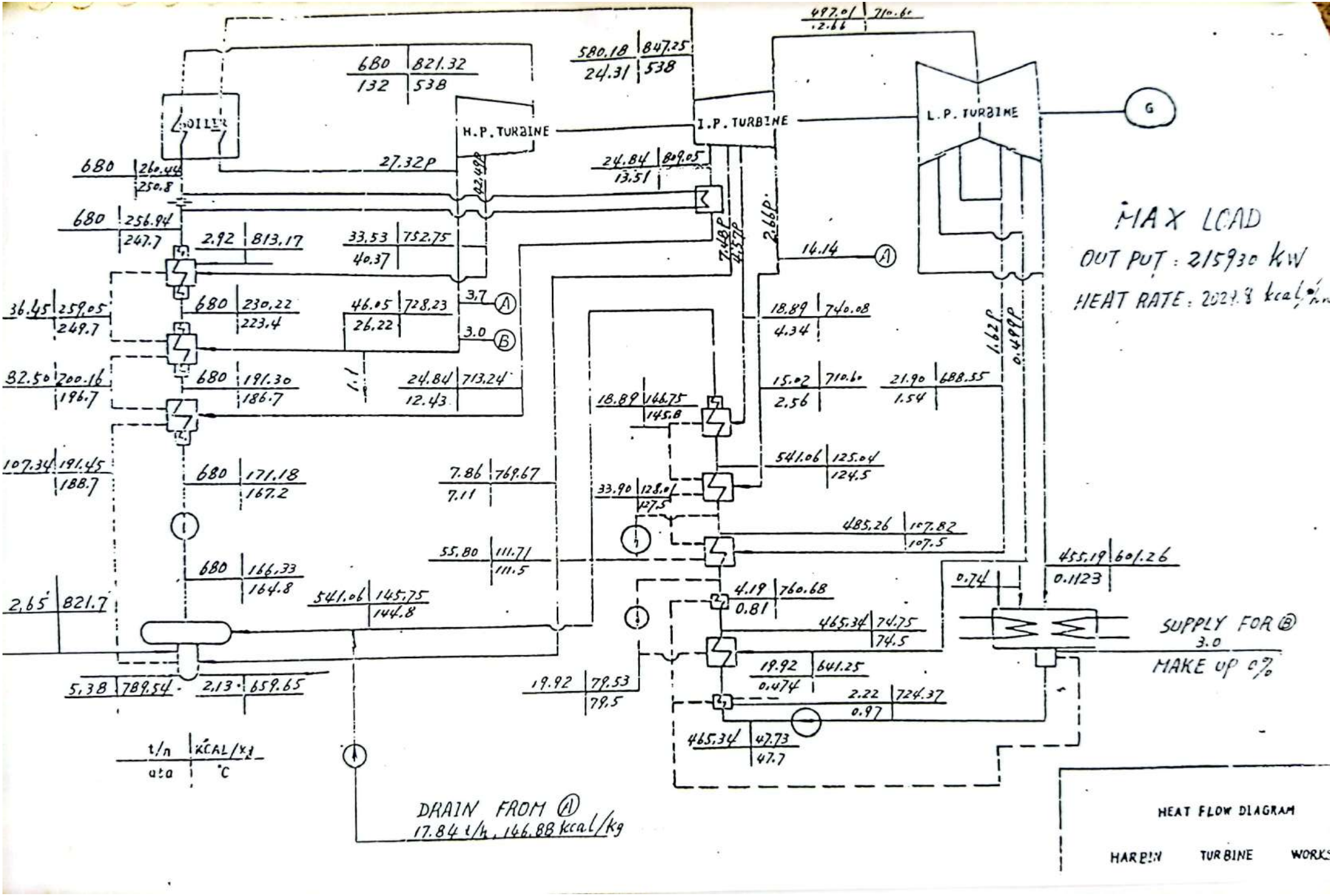
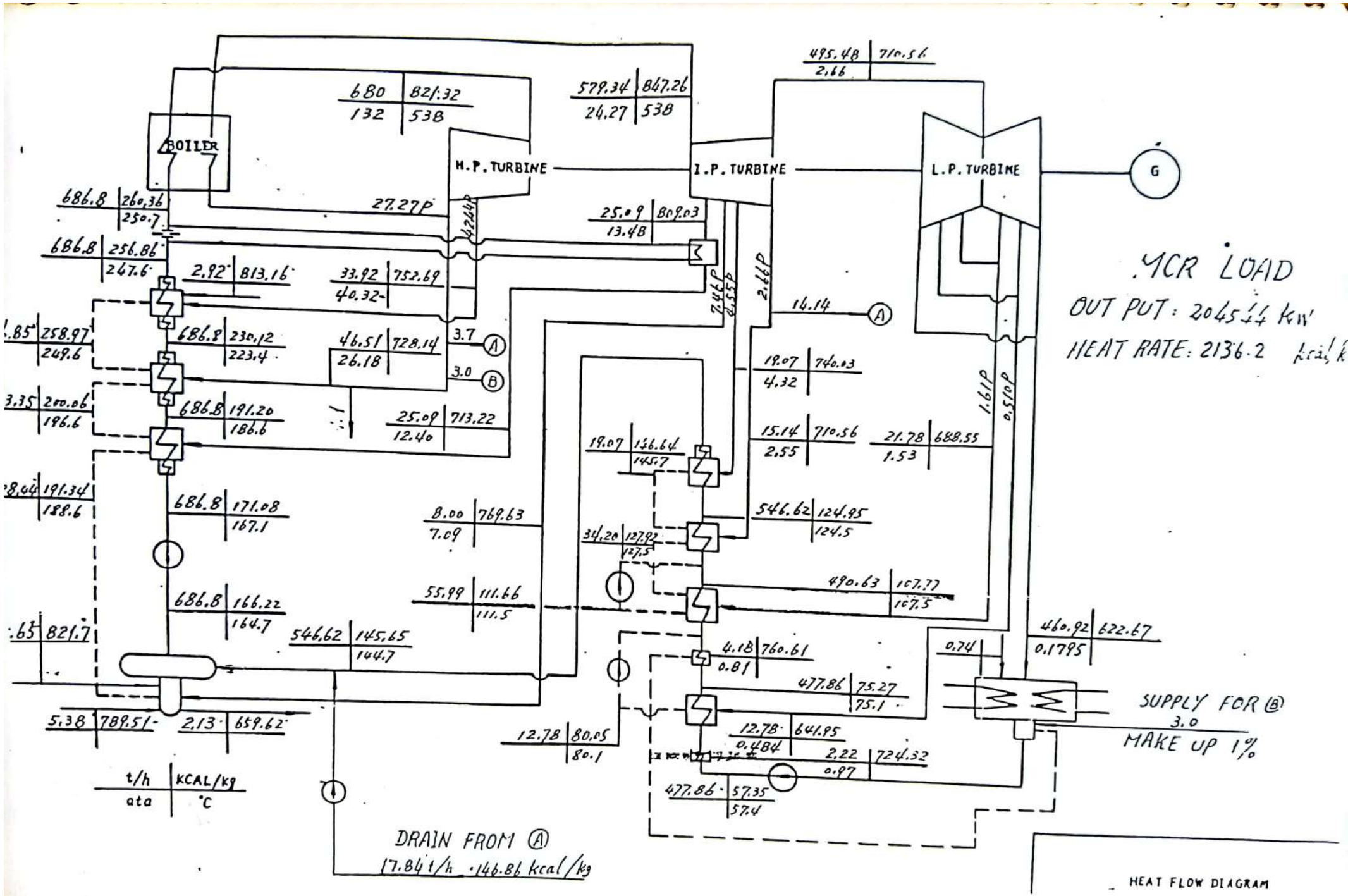

BOILER
H.P. TURBINE
I.P. TURBINE
L.P. TURBINE
G
680 821.32 / 132 538
580.18 847.25 / 24.31 538
497.01 710.6 / 12.66
680 260.44 / 250.8
27.32P
24.84 809.05 / 13.51
680 256.94 / 247.7
2.92 813.17
33.53 752.75 / 40.37
7.48P
4.57P
2.66P
14.14
A
MAX LOAD
OUT PUT : 215930 kW
HEAT RATE : 2021.8 kcal/kw
36.45 259.05 / 249.7
680 230.22 / 223.4
46.05 728.23 / 26.22
3.7 A
3.0 B
18.89 740.08 / 4.34
1.62P
0.499P
32.50 200.16 / 196.7
680 191.30 / 186.7
24.84 713.24 / 12.43
18.89 766.75 / 145.8
15.02 710.6 / 2.56
21.90 688.55 / 1.54
107.34 191.45 / 188.7
680 171.18 / 167.2
7.86 769.67 / 7.11
33.90 128.0 / 127.5
541.06 125.04 / 124.5
485.26 107.82 / 107.5
55.80 111.71 / 111.5
680 166.33 / 164.8
455.19 60.126 / 0.1123
0.74
2.65 821.7
541.06 145.75 / 144.8
4.19 760.68 / 0.81
465.34 74.75 / 74.5
SUPPLY FOR B
3.0
MAKE UP 0%
19.92 641.25 / 0.474
5.38 789.54
2.13 659.65
19.92 79.53 / 79.5
2.22 724.37 / 0.97
465.34 47.73 / 47.7
t/h | KCAL/KG
ata | °C
DRAIN FROM A
17.84 t/h, 146.88 kcal/kg
HEAT FLOW DIAGRAM
HARBIN TURBINE WORKS


BOILER
H.P. TURBINE
I.P. TURBINE
L.P. TURBINE
G
680 | 821.32
132 | 538
579.34 | 847.26
24.27 | 538
495.48 | 710.56
2.66
686.8 | 260.36
250.7
27.27P
686.8 | 256.86
247.6
2.92 | 813.16
33.92 | 752.69
40.32
25.09 | 809.03
13.48
2.44P
4.55P
2.61P
14.14
A
686.8 | 230.12
223.4
46.51 | 728.14
26.18
3.7
3.0
B
686.8 | 191.20
186.6
25.09 | 713.22
12.40
19.07 | 740.03
4.32
1.61P
0.51P
19.07 | 136.64
145.7
15.14 | 710.56
2.55
21.78 | 688.55
1.53
686.8 | 171.08
167.1
8.00 | 769.63
7.09
546.62 | 124.95
124.5
34.20 | 127.92
127.5
686.8 | 166.22
164.7
55.99 | 111.66
111.5
490.63 | 107.77
107.5
546.62 | 145.65
144.7
4.18 | 760.61
0.81
0.74
460.92 | 622.67
0.1795
477.86 | 75.27
75.1
SUPPLY FOR (B)
3.0
MAKE UP 1%
5.38 | 789.51
2.13 | 659.62
12.78 | 80.05
80.1
12.78 | 641.95
0.484
2.22 | 724.32
0.97
477.86 | 57.35
57.4
t/h | KCAL/kg
ata | °C
DRAIN FROM (A)
17.841 t/h · 146.86 kcal/kg
MCR LOAD
OUT PUT : 204.44 KW
HEAT RATE: 2136.2 kcal/k
HEAT FLOW DIAGRAM

MECHANICAL WORKSHOP SECTION THERMAL POWER STATION, JAMSHORO

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
	AUTO SHOP					
1	Auto Compressor	A-04			410	
2	Petrol Engine Equipment	A-05			-	
3	Wheel balancing machine	A-06			130	
4	Tyre tube vaulcanizing	A-07			-	
5	Engine valve grinding machine	A-09			89	
6	Engine cylinder boring machine	A-10			62	
7	Engine cylinder honing machine	A-11			650	
	INSTRUMENT SHOP					
1	Vacuum Pump	I-22			140	
	ELECTRIC SHOP					
1	Electric drying oven	E-1			1000	
2	Drying oven	E-1			1000	
3	Low speed electric winch	E-25			9500	
	FORGING SHOP					
1	Black smith furnace	F-1			-	
2	Electric Oven 1200^0C	F-3			-	
3	Electric Motor chain block and trolley	F-5			2000	
	WELDING SHOP					
1	AC Arc welding machine	W-1			220	
2	Diesel driven portable welding machine	W-2			-	
3	Oven 200^0C	W-6			-	
	MACHINE SHOP					
1	Medium size lathe machine	M-02			6300	
2	Lathe machine (Pakestan)	M-04			-	
3	Lachine Machine	M-05			1700	
4	Horizontal boring and milling machine	M-06			20000	
5	Milling machine	M-07			2150	
6	Up right drilling machine	M-09			1315	
7	Hobbing machine	M-12			4500	
8	Universal cutter & tool grinder	M-13			1000	
9	Shearing machine	M-19			15000	
10	Hard bearing balancing machine	M-22			5000	
11	Medium speed winch machine	M-25			3000	
12	Over head crane	M-27			10 Ton	
13	Hydraulic pipe bender	M-21			-	
	FORGING SHOP					
1	Hydraulic Forgery press	F-04			37009	

Sr#	Name of Equipment	Description	Drawing#	Qty.	Weight in Kg.	Grand Wt.
	MACHINE SHOP					
1	Radial drill machine	M-08			-	
	INSTRUMENT SHOP					
1	Drill Machine	I-01			105	
2	Lathe Machine	I-03			830	
	ELECTRIC SHOP					
1	Coil winding machine	E-I			734.4	
	AUTO SHOP					
1	Steam Cleaner	A-01				
1	Threading machine	These machine have no any drawing these are without any documents				
2	Lathe machine (PECO) made in Pakistan					
3	Lathe Machine (PECO) made in Pakistan					
4	Lathe machine Made in Pakistan					
5	Shapper machine made in England					
6	Heavy duty power hack saw machine					
7	Small power hacksaw machine					

APPENDIX – 05:

EXCLUSIONS

MECHANICAL ITEMS ARE TO BE USED FOR INTAKE PUMPING STATION AND PRE-TREATMENT AREA

Sr.No	Items Code Number	Description of Article /Item	Unit	Quantity
1	02-1003-1211	M.s Flanage 273 mm 16 Hole	No	6
2	02-1003-1220	Ms Tee Type Welded 10"	No	21
3	02-1003-1221	Reducer 10x6"	No	25
4	02-1003-1222	Reducer 8x4"	No	21
5	02-1003-1223	Reducer 8x6"	No	5
6	02-1018-0263	Steanless Steel Flange SUS 304 Size .200 mm	Pairs	23
7	02-1018-0264	SS ,Tee 6"	No	1
8	02-1018-0297	Gate,Valve 4" Weld Type	No	1
9	02-1018-718	DISK Plate of Non Retrun Valve OF Sluge Drain Pit Pump	No	3
10	02-1018-736	Star Of Diapharam Valve Size 100 mm	No	3
11	02-1018-768	Body Of Alam Dozing Pump	No	2
12	02-1018-769	Gate Valve Flange Type Size,65mm Cast Iron	No	5
13	02-1018-0838	SS,Reducer Tee SUS ,304 Size 6"x8"	No	3
14	02-1018-0839	NRV ,VALVE 100mm Cast Iron	No	12
15	02-1018-0840	NRV,Valve 125mm	No	1
16	02-1018-0841	NRV, Valve Flange Type Size 80 mm	No	9
17	02-1018-0842	NRV, Valve Flang Type Size 65 mm	No	6
18	02-1018-0845	Gate Valve Cast Iron DN,50	No	5
19	02-1018-1114	Rubber Hose Pipe (Darson)Havy Duty With Clamp	No	3
20	02-1018-1164	Cutting Disk Size 4"	No	1021
21	02-1018-1196	Stainles Steel Electrode 3.2 x 350 mm	Kg	179
22	02-1018-1198	S.S Welding Electrods 2.6mm Matirial SUS 316	Kg	65
23	02-1018-1236	S.S Sleeve Rubber Bering	No	5
24	02-1018-1237	S.S Sleeve Rubber Bering	No	5
25	02-1018-1265	Gland Packing 8x8mm	kg	4
26	02-1018-1339	Dia Pharam For Mechanical Fillter	NO	3
27	02-1018-1370	HP,Gland Packing 12mm	kg	10
28	02-1018-1423	Grinding Disk 7"	No	260
29	02-1018-1424	SS Welding Electrode 2.5 mm	kg	30
30	02-1018-1430	White Syntatic Gland Packing Size 16 mm	Kg	25
31	02-1018-1431	White Syntatic Gland Packing Size 14 mm	KG	10
32	02-1018-1444	SS Ball Valve Flange Type Size 40 mm	NO	5
33	02-1018-1445	SS Flange Type Size 50 mm	NO	18
34	02-1018-1446	Ms Elbow 50 mm	NO	52
35	02-1018-1540	SS Elbow 90 Digree	NO	10
36	02-1018-1541	Ms Pipe Size 15mm	M	20
37	02-1018-1546	Ms Elbow Size 25 mm	No	24
38	02-1018-1547	Ms Elbow Size 75mm	No	118
39	02-1018-1551	Ms Tee Size 100mm	No	4
40	02-1018-1563	Swing Chaeck Valve Size 8"	NO	6
41	02-1018-2436	Spacer Plate MS	SET	5
42	02-1018-2437	Spacer Plate MS	SET	5
43	02-1018-2441	Ms Reducer Socket 80x50mm	NO	11
44	02-1018-2613	Emery Paper Roll	Roll	5
45	02-1018-2618	MS Flange With Coller	NO	5
46	02-1018-2690	MS Welded Pipe For Intake Pipe Line.	MTR	6
47	02-1018-2736	Bearing Budy Matirial SS.	NO	8
48	02-1018-2804	Intermediate Bearing Intake Water Pump	NO	8
49	02-1018-2841	Pump Budy of Colony Drinking water Pump ..	NO	1
50	02-1018-2859	Upper shaft sleeve SS.	NO	16
51	02-1018-2860	Packing Sleeve SS.	NO	28
52	02-1018-2861	Lower Shaft Sleeve SS.	NO	6
53	02-1018-2862	iIntermediat Bearing SS.	NO	24
54	02-1018-2863	Lower Bearing SS With Rubber Lining .	NO	4
55	02-1018-2864	Locating Bush /Socket	NO	6
56	02-1018-1903	Tyflon Tape 1/2 Inch	(PCS)	1743
57	02-1018-3035	SS Cuppler For Intake Pump	NO	12
58	02-1018-3036	SS lower Shaft Paper Intake Pump	NO	7
59	02-1018-3091	Butterflay Valve 4"	NO	12

MECHANICAL ITEMS ARE TO BE USED FOR INTAKE PUMPING STATION AND PRE-TREATMENT AREA

Sr.No	Items Code Number	Description of Article /Item	Unit	Quantity
60	02-1018-3126	MS Elbow 90 Size 10"	NO	19
61	02-1018-3160	Impeller Cast Iron	NO	1
62	02-1018-3162	Intrmediat Bearing Carrier	NO	2
63	02-1018-3244	Section Bell For Housing Intake Pump	NO	4
64	02-1018-3292	MS T Type Boalt With Nutt	NO	116
65	02-1018-3514	Star Matirial Cast Iron	NO	4
66	02-1018-3524	SS,Sleeve Rubber Bearing With Lining Intake Pump .	NO	10
67	02-1018-3548	SS,Flange	NO	3
68	02-1018-3585	Stuffing Box Matirial Cast Iron	NO	1
69	02-1018-3586	Glang Pusher Matirial Cast Iron	NO	2
70	02-1018-3599	SS U Calamp with Nutt	NO	10
71	02-1018-3608	Cast Iron Cuppling	SET	7
72	02-1018-3617	Suction Stainner for Intake Pump 3&4.	NO	1
73	02-1018-3636	Cast Iron Cuppling	SET	2
74	02-1018-3650	Suction bell Intake Pump	No	3
75	02-1018-3659	First Diffuser Casing Intake Pump	NO	3
76	02-1018-3690	SS,Sleeve with Rubber Lining	NO	8
77	02-1018-3691	SS,Sleeve with Rubber Lining	NO	4
78	02-1018-3692	SS,Gland Bush Unit No-1	NO	4
79	02-1018-3693	SS,Packing Sleeve	NO	4
80	02-1018-3694	Intermediate Bearing Support Unit No-1	NO	4
81	02-1018-3695	suction Strainer	NO	3
82	02-1018-3708	MS Tee	NO	2
83	02-1018-3709	MS Tee	NO	3
84	02-1018-3713	Steainless Steel Bush	NO	6
85	02-1018-3714	Steainless Steel Bush	NO	17
86	02-1018-3842	SS,Impeller 1st Intake Pump	NO	3
87	02-1018-3843	SS,Impeller Intake Pump	NO	3
88	02-1018-3949	Lower Shaft Intake Pump	NO	4
89	02-1018-3957	MS,Pipe Size 10 Inch	RFT	40
90	02-1018-3980	Butterflay Valve Size 150 mm.	NO	4
91	02-1018-3981	Butterflay Valve Size 250 mm.	NO	1
92	02-1018-4012	MS,elbow	NO	11
93	02-1018-4014	MS,TEE.	NO	1
94	02-1018-4129	Elbow 125 mm.	NO	28
95	02-1018-4135	Upper SHAFT Intake Pump Unit NO-1	NO	3
96	02-1018-4136	Intermediat Shaft Intake Pump Unit-1	NO	5
97	02-1018-4137	Lower Shaft Intake Pump Unit -1	NO	2
98	02-1018-4180	SS Ball Valve 25 mm	NO	13
99	02-1018-4228	SS Bearing BOdy Pump Foundetion	NO	6
100	02-1018-4243	Spare Part of Yard Pit Pump	NO	6
101	02-1018-4264	SS,Pipe Size 8"	FOOT	20
102	02-1018-4272	FRP/RTAP Epoxy	M	144
103	02-1018-4273	FRP/RTAP Epoxy .	NO	5
104	02-1018-4274	FRP/RTAP Epoxy .	NO	2
105	02-1018-4276	FRP/RTAP Epoxy .	NO	2
106	02-1018-4278	Vinlye Flanf 12"	NO	10
107	02-1018-4298	Butterfly Valve Size 200mm	NO	2
108	02-1018-4300	Non Retrun Valve(NRV) Flange Type Size 3"	NO	6
109	02-1018-4314	Non Retrun Valve(NRV) Flange Type Size 2"	NO	1
110	02-1018-4341	SS,Cuppler Unit #1	NO	2
111	02-1018-4357	Impeller SS, Unit No-1	NO	2
112	02-1018-4359	lubricant Pipe For Intake Water Pump	NO	7
113	02-1018-4364	Raw Water Pump Housing	NO	1
114	02-1018-4365	Upper Shaft UnIT NO-1	NO	2
115	02-1018-4366	Lower Shaft Unit NO-1	NO	2
116	02-1018-4367	Shaft Intermediat Unit-1	NO	4
117	02-1018-4374	SS Bearing Budy For First Deffuser I/P	NO	6
118	02-1018-4375	SS Bearing Carier A- I/P	NO	6
119	02-1018-4402	SS BOALT WITH LOCK NUT NYLONE		130
120	02-1018-4492	Check Nut Mottor	NO	3
121	02-1018-4493	Catcher SUS 304	NO	19

MECHANICAL ITEMS ARE TO BE USED FOR INTAKE PUMPING STATION AND PRE-TREATMENT AREA

Sr.No	Items Code Number	Description of Article /Item	Unit	Quantity
122	02-1018-4494	Nut For Impeller SUS 304	NO	2
123	02-1018-4519	SS,check Nut for Impeller Shaft	NO	2
124	02-1018-4520	MS,Cheack Nut For Cuppling	NO	7
125	02-1018-4606	SS Sleeve for diffuser	NO	6
126	02-1018-4607	SS Gland Bush	NO	3
127	02-1018-4608	Spare parts of Alum Transfer pump.	NO	7
128	02-1018-4624	SS,Bush	NO	7
129	02-1018-4625	SS,Shaft With Check Nut	NO	2
130	02-1018-4626	SS,Impeller	NO	4
131	02-1018-4664	SS,Bush Unit No-1	NO	2
132	02-1018-4667	SS,Impeller Unit No-1	NO	2
133	02-1018-4668	SS,Bush Unit No-1	NO	5
134	02-1018-4670	SS,Cuppler Unit #1	NO	1
135	02-1018-4671	SS,Bush Rubber Coatting Unit -1	NO	2
136	02-1018-4699	ss,Bush Fillter Pump Unit 3&4	NO	3
137	02-1018-4728	upper Shaft Carbon Steel	NO	2
138	02-1018-4729	Lower Shaft Carbon Steel	NO	2
139	02-1018-4730	Impeller	NO	2
140	02-1018-4731	Housing	NO	1
141	02-1018-4732	Suction Bell Cast Iron	NO	2
142	02-1018-4733	SS Bush	NO	1
143	02-1018-4734	SS Bush	NO	1
144	02-1018-4737	SS,Nut For Impeller	NO	2
145	02-1018-4738	Check Nut of Motor	NO	2
146	02-1018-4739	SS Couppler	NO	1
147	02-1018-4740	SS Catcher	NO	2
148	02-1018-4753	Impeller Plate Gland Pusher	NO	1
149	02-1018-4754	Bearing Body Flange	NO	1
150	02-1018-4776	Gland Bush Colony Drinking Water Pump	NO	4
151	02-1018-4777	Bearing Budy Colony Drinking Water Pump	NO	2
152	02-1018-4778	Gland Bush Colony Drinking Water Pump	NO	4
153	02-1018-4779	Gland Bush Colony Drinking Water Pump	NO	4
154	02-1018-4780	Gland Ring Colony Drinking Water Pump	NO	4
155	02-1018-4781	Impeller Side King Colony Drinking Water Pump	NO	4
156	02-1018-4782	Impeller Colony Drinking Water Pump	NO	3
157	02-1018-4783	Cuppling Pump/Motor Side Colony Drinking Water Pump.	NO	1
158	02-1018-4786	Nut Bolt With Washer 12x35mm	KG	35
159	02-1018-4787	Nut Bolt With Washer 12x45mm	KG	45
160	02-1018-4788	Nut Bolt With Washer 12x50mm	KG	48
161	02-1018-4789	Nut Bolt With Washer 12x55mm	KG	70
162	02-1018-4791	Nut Bolt With Washer 12x70mm	KG	143
163	02-1018-4792	Nut Bolt With Washer 14X35mm	KG	50
164	02-1018-4793	Nut Bolt With Washer 14X40mm	KG	50
165	02-1018-4794	Nut Bolt With Washer 14X45mm	KG	100
166	02-1018-4795	Nut Bolt With Washer 14X60mm	KG	100
167	02-1018-4796	Nut Bolt With Washer 14X30mm	KG	82
168	02-1018-4797	Nut Bolt With Washer 14X80mm	KG	193
169	02-1018-4798	Nut Bolt With Washer 14X90mm	KG	130
170	02-1018-4799	Nut Bolt With Washer 14X100mm	KG	100
171	02-1018-4800	Nut Bolt With Washer 14X150mm	KG	100
172	02-1018-4801	Nut Bolt With Washer 16X35mm	KG	35
173	02-1018-4803	Nut Boalt With Washer 16X50mm	KG	58
174	02-1018-4804	Nut Boalt With Washer 16X55mm	KG	34
175	02-1018-4806	Nut Boalt With Washer 16X65mm	KG	134
176	02-1018-4816	Nut Boalt With Washer 24X80mm	KG	54
177	02-1018-4817	Nut Boalt With Washer 10X20mm	KG	18
178	02-1018-4820	Nut Boalt With Washer 18X15mm	KG	25
179	02-1018-4840	Planger	NO	2
180	02-1018-4841	Piston	NO	4
181	02-1018-4842	Piston	No	4
182	02-1018-4843	Crank Frist & Shaft	NO	3

MECHANICAL ITEMS ARE TO BE USED FOR INTAKE PUMPING STATION AND PRE-TREATMENT AREA

Sr.No	Items Code Number	Description of Article /Item	Unit	Quantity
183	02-1018-4844	Connecting Rod With Piston	NO	4
184	02-1018-4845	Crankshaft Upper Plate	NO	4
185	02-1018-4846	Cuppling With Rubber Paid	SET	5
186	02-1018-4888	SS,Sleeve With Synthtic Rubber	NO	1
187	02-1018-4904	Raw Water Tranfer Pump Impeller	NO	4
188	02-1018-4905	SS Cuppler With Catcher	NO	3
189	02-1018-4918	Body Of Pump Bearing	NO	4
190	02-1018-4942	Column Pipe Large	NO	3
191	02-1018-4943	Column Pipe Small	NO	2
192	02-1018-4961	U Bolt With Nuts	NO	273
193	02-1018-4971	Sleeve Bush For Ballancing Wheel	NO	4
194	02-1018-4972	Suctione Bell	NO	4
195	02-1018-4978	Plunger Caller	NO	1
196	02-1018-4979	Dozing Piston	NO	2
197	02-1018-4980	Warm gear	NO	3
198	02-1018-4981	Warm	NO	4
199	02-1018-4982	Crank Shaft Both & Bearing	NO	4
200	02-1018-4983	Plunger	NO	2
201	02-1018-4985	Balance Wheel	NO	3
202	02-1018-4986	Impeller SS	NO	2
203	02-1018-4987	Shaft SS.	NO	2
204	02-1018-4988	Bush SS.	NO	1
205	1026-550	MS,Reducer 10x8"	NO	2
206	1026-551	Reducer 5x4"	NO	5
207	1026-552	Reducer 2x1	NO	4
208	03-1004-0001	Oil T-46	Litre	2090

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The list of electrical store material with item code number for water pre treatment and intake area which is to be retained.

Sr No	Item Code No	Description of Article/Item	Unit	Quantity
1	1010/420	Magnetic Contactor B-85 220V	No	13
2	1010/421	Magnetic Contactor B-85 380V	No	5
3	1010/422	Magnetic Contactor B-45 280V	No	52
4	1010/423	Magnetic Contactor B-45 380V	No	34
5	1010/475	Magnetic Contactor B-30 BBC-25-30 220V 60A	No	6
6	1010/496	Magnetic Contactor B-30 BBC-105-380V	No	5
7	1010/141	Risn Module dry type transformer 6600V	No	1
8	1010/639	Chamber of 0.4 KV Circuit Breaker 1000 KVA	No	144
9	1010/715	Control transformer output voltage 220V-300V	No	4
10	1010/404	Finger contact large 2500 Amp	No	18
11	1010/405	Finger contact small 800 Amp	No	18
12	1010/624	Manufacturing of 0.4 KV Contact (moveable)	No	5
13	1010/908	Oil guage glass with accessories (0.4 KVA)	No	4
14	1010/918	Horizontal centrifugal pump Model ISO 125x100x315 Electric motor Model Y-YB 3158-2	Set	1
15	1004-2	T-32 oil	Liter	4389
16	2003-499	ME breaker 630A Trip DC-220V New 7+2	No	9
17	2003-765	Control Transformer KB-150 VA	No	13
18	1010-925	Differential relay type LCD-11 1A	No	2
19	1010-926	Aux relay Type ZJ-3 C/0.8 TH 0.5	No	4
20	1010-927	Aux relay Type ZJ-3 C/0.8 TH 0.25	No	3
21	1010-928	Auxiliary relay Type ZJ3 C/8.0 TH 0.1 A	No	4
22	2003/338	Glass Cylinder BET 170.13x16	No	1
23	2003/429	Isolated Static Assimg Coverings	No	24
24	2003/570	Pressure Relief Valve	Set	1
25	2003/914	Magnetic Contactor CJ10-75/100 100	No	4
26	215,239,17	Bearings (6208, 7330, 314) 220V	No	03+04+2 =9
27	4561, 492	Bearings (6317 & 6313)	No	04+04 = 08
28	27073, 235	Bearings (29422, 6413)	No	04+45 = 49
29	1010/918	Arbori culture motor , 110 kW, 380 V	No	1

LIST OF LINE MATERIAL OF COLONY MAINTENANCE PLACED AT JPCL POWER HOUSE STORE TO BE RETAINED FOR RESIDENTIAL COLONY TPS JAMSHORO

Sr. #	Stock Code	Material	Unit	Quantity
1	1011/167	Arm Brasing	Nos	603
2	1011/169	11 KV Dead Clamp (Ant)	Nos	185
3	1011/170	11 KV Dead Clamp (Ant)	Nos	362
4	1011/171	Transformer Male plate Double Set 11KV	Set	27
5	1011/172	L.T Structure (Pole)	Nos	10
6	1011/173	H.T Structure (Pole)	Nos	08
7	1011/144	A.A Ant Conductor	Mtr	4300
8	1011/1060	Pin for H.T structure	Nos	30
9	1011/1341	A.A wasp conductor	Mtr	3450
10	1011/1380	P.G connectors T-110	Nos	500
11	1011/1381	Earth Rod	Nos	20
12	1011/569	PVC cable 04 Core 19/0.83 silver	Mtr	100
13	1011/329	Safety belt	Nos	03
14	1011/1179	11KV Steel Arm cross (Channel & Strips)	Set	12
15	1011/755	Stay Rod	Set	46
16	1011/1317	Nut & Bolt 11 Double cross arm size 20" length	Nos	30
17	1011/149	D-Shakle assembly	Nos	250
18	1011/236	Transformer 100KVA	Nos	08
19	1011/238	Transformer 200KVA	Nos	02
20	1011/146	H.T insulator	Nos	392
21	1011/148	11KV disk insulator	Nos	08
22	1011/164	P.G clamp double	Nos	902
23	1011/165	P.G clamp Single	Nos	3244
24	SPS-85	Panther conductor H.T (In Pieces)	Mtr	290
25	SPS-86	Ant conductor H.T (In Pieces)	FT	50
26	SPS-149	Dog Conductor (In Pieces)	Mtr	990

Add:Sr.Engr Electrical (Colony)
TPS Jamshoro

The Detail of Exclusion & retaining Equipment list for Tender document JPCL Units No.01 to 04:

Sr. No.	Name of Exclusion Equipment List	Description of Equipment	Quantity	Installed Location
1.	132KV Oil Filled Power Cable from 500KV Grid Station to Starting T/F (T-6) along with Main 132KV Breaker	Type: ZQYD22-132 (KV)-1270 mm2 Rated Voltage: 132KV, Highest Working Voltage: 252KV Winding Radius: 1275 mm	Apprx. 1000 Meter	Installed at 220KV Power Cable Underground Tunnel
2.	Starting Transformer 132/6.6kV (T-6)	Type: SFPZ-25000 / 132 TA, Power: **25000** KVA Voltage: **132 / 6.9 KV** Rated Current: 109.3 / 2092 A Rated Frequency: 50 Hz	1 No.	Power House Transformer Yard Area
Sr. No.	**Name of Exclusion Equipment List**	**Description of Equipment**	**Quantity**	**Installed Location**
3.	Transformer Control & Protection Panel for Starting Transformer 132/6.6kV (T-6)	1. Complete Control and Relay Protection Panel along with wiring and power cable. 2. Generator Control Panel & Annunciation Panel of Unit No. 3	01 No. set	Presently installed at DC Room of Central Control Room Unit No.3
4.	220KV Oil Filled Power Cable from 500KV Grid Station to Starting Transformer (T-5) along with Main 220KV Breaker	Type: ZQYD22-220 (KV)-1 680 mm2 Rated Voltage: 220KV	Apprx. 1000 Meter	Installed at 220KV Power Cable Underground Tunnel
5.	Starting Transformer 220/6.6kV (T-5) as Standby T/F	Type: SFPZ-25000 / 220 TA Rated Power: 25000 KVA, Rated Volt: 220/6.9KV Rated Current: 109.3 / 2092 A, Rated Frequency: 50 Hz Type of Cooling: ONAN / ONAF, Phases: 3, YN-yn0-d1	1 No.	Power House Transformer Yard Area
6.	Transformer Control & Protection Panel for Starting Transformer 220/6.6kV (T-5)	1. Complete Control and Relay Protection Panel along with wiring and power cable. 2. Generator Control Panel & Annunciation Panel of Unit No. 3	01 No. set	DC Room

7.	Complete 6.6Kv Switchgear (Unit No. 3 & Common Section Unit No. 3 & 4)	6.6kV Metal Clad Switchgear along with 6.6KV VCB Circuit Breaker and Bus Bar	Complete 6.6Kv Switchgear of Unit No. 3, and common Section Unit No. 3 & 4	5 Meter at Main Turbine Building, Unit No. 3
8.	Complete Generator Control Panel for Transformer T-6 & T-5 operation and monitoring Unit # 3	Generator control Panel for operation & monitoring of transformer, DC Battery Bank and 6.6KV Switchgear etc.	Complete	Main Central Control Room U # 3

Sr. No.	Name of Exclusion Equipment List	Description of Equipment	Quantity	Installed Location
9.	220V DC Battery Bank Set OF Unit No. 4	FLAT PLATE LEAD ACID BATTERY SET (1600 AH) Type: TK – 41 2V, 1600AH Each Cell	1 set (130 Nos. Cell)	Installed at 5 METER Unit No. 4 DC battery Bank Room of Main Building Central Control Room.
10.	Rectifier Charger for Battery Bank of Unit No. 4	Battery Charger Rectifier Panel. **Specification; Power:** 200KVA, Rectification System: 3-Phase Full Wave, Input 380V, 3-Phase, 50Hz	01 No.	Installed at 5 Meter DC Room , U # 4
11.	Additional Charger Devise for Battery Bank of Unit No. 4	Type:KGCA-15A/72V Input Supply; 380V 50 Hz, Output Voltage: 72V	01 No.	Installed at 5 Meter, Additional Charger Room of Main Central Control Room Building U # 4
12.	DC Distribution Control Panel and 220VDC Bus Bar of Unit No. 4	Type; PK-10/4 Make : Acheng Relay Works, China	03 No. Panel	Installed at 5 Meter DC Room , U # 4
13.	Service Station Auxiliary T/F (Common & Unit) along with 0.4 KV Switchgear, Breakers and Main 6.6KV Power Cable for Both T/F of U # 4	1. Dry Type Transformer having rating 1600 KVA (6.6/0.4KV) along with Complete 0.4KV Switchgear and Breakers. 2. 3-Core 95mm^2 Power Cable from 6.6KV Switchgear to Service Station T/F.	02 Nos.	Installed at 10 Meter Turbine Hall Building Unit No. 4
14.	For Fir Fighting Station Dry Type T/F at Cooling Tower Pump House	Type: SCL-1250, 1250 KVA, 6.6/0.4KV	01 No.	Installed at Cooling Tower U # 4
15.	0.4KV Emergency Unit Section Panel Unit No. 1 & 4	1. 0.4KV Switchgear Panel, Bus bar and breakers. 2. Lightening T/F 50KVA	02 Nos.	Installed at 5 Meter Main Turbine Building Unit No. 1 & 4
16.	Emergency Diesel Generator (EDG) Set of Unit No 1 along with Control / Protection/ Distribution Panel, 0.4kv Power Cables and allied Equipments.	Capacity Power: 750KVA, Voltage: 400V, Current: 1083A, 3-Phase, Speed: 1500rpm	01 No.	Installed at Main Building Basement Unit No. 1

Sr. No.	Name of Exclusion Equipment List	Description of Equipment	Quantity	Installed Location
17.	Complete Intake Water Pumping Station Unit No. 1, 2,3 & 4 along with 6.6KV Power Cables, Overhead Conductor and Electrical & Mechanical Equipments Installed at site Indus River of Unit # 1, 2, 3 & 4	1. 6.6KV VCB Breaker (01 No.) 2. Overhead Conductor from PTA to Intake Pumping Station. 3. Complete 6.6/0.4KV Switchgear along with Dry Type T/F 400KVA (6.6/0.4KV), Lighting T/F 50KVA (380/220VAC), and **16** Nos. 0.4 KV Intake Water Pumps	Complete Intake Water Pumping Station	Intake Pumps at River Indus at distance of 10 KM for the supplying of Raw Water.
18.	Complete Water Pretreatment (PTA) Section Area of Unit No. 1, 2, 3 & 4 along with 6.6KV & 0.4KV Power Supply Cables, Transformers, Motors, etc	1. 08. Nos. Dry Type Transformer having rating 1000 KVA, 6.6/0.4KV along with Complete 0.4KV Switchgear and Breakers. 2. 8 Nos. 3-Core copper Power Cable Size; 795 mm^2 for power Supply of 08 Dry Type T/Fs from 6.6KV Unit & Common Section to PTA via Power Cable Trench U# 3.	Complete Water Pretreatment (PTA) Section Area of Unit No. 1, 2, 3 & 4	PTA
19.	Complete Water treatment (Demi Plant) Section of Unit No. 1 along with 6.6KV & 0.4KV Power Supply Cables, Transformers, Motors, etc	1. 02. Nos. Dry Type Transformer having rating 250 KVA, 6.6/0.4KV along with Complete 0.4KV Switchgear and Breakers. 2. 03 No. Service Water Pump, 3. All Chemical Pumps.	Demi Plant Unit No. 1	Demi Plant Unit No. 1
20.	Admin Building	02 No. Power Transformer having Rating 200 KVA (6.6/0.4KV) **for Admin Building Lightening and Power Supply.**	02 No.	Admin Building
21.	Fire Fighting Pump Stations U # 1 & 4	To ensure the availability of water in the event of a fire emergency to suppress and control fires due to safe operation of Starting Transformer (T-6) and other Electrical Auxiliaries. 1. Main Fire Fighting Pump	02 No.	Main Fire Fighting Station Near Main P/House Gate and Unit No.

		Station at Main Power House Entrance. 2. Complete Fire Fighting Pump Station of Unit. Including - 02 Nos. 1000KVA Dry Type Power T/F (6.6/0.4KV), - 01No. Large 6.6KV F.F Pump. - 02Nos, Small F.F. Pumps. - 01 No. Emergency Diesel Engine Fire Fighting Pump, - Main F.F Water Tank and its allied equipment i.e Mechanical Piping and Main Hydrant.		
22.	6.6KV 3-Phase, 3-Core Copper Power Cable having size: 95mm^2 from length of 6.6KV Switchgear Unit No. 3 & Common Section Unit No. 3&4.	Following Details of 6.6KV Power Cable: 1. 02 No. 3-Core Power Cable 95mm^2 for power supply of Intake Pumping Station. 2. 08 Nos. 3-Core Power Cable 95mm^2 for Power Supply of PTA Unit No. 1, 2, 3 & 4. 3. 02 No. 3-Core Power Cable 95mm^2 for power supply of Demi Plant Unit No. 1. 4. 01 No. 3-Core Power Cable 95mm^2 for power supply of Admin Building. 5. 01 No. 3-Core Power Cable 95mm^2 for power supply of Large 6.6KV Fire Fighting Pump Unit No.4 6. 01 No. 3-Core Power Cable 95mm^2 for power supply of Dry Type T/F (1250 KVA, 6.6/0.4KV) of Unit No. 4	15 Nos. 6.6KV Power Cables from Switchgear to Plant Sub Station Location	6.6kv Power Cable From 6.6KV Switchgear to different station via Power Cable Trench

List of Chemical Plants, Building, Laboratories & other Material not to be disposed of due to Water Treatment for utility water supply

Hence following Chemical Plants, Building, Laboratories & material is required to be held with JPCL, Jamshoro.

S#	Area	Material
1-	Water Pretreatment Plant U#1, 2, 3 & 4	All materials available inside the area like chemicals, testing equipments, glass ware, furniture & fixture and miscellaneous material will required to be held with JPCL Jamshoro.
2-	One container beside Alum Shade PTA U#1	
3-	Demi Plant U# 1, 2 & 3	
4-	Water Testing Shift Laboratory at U#1	
5-	Chemical Yard Area at Basement of U # 1 & 2	
6-	Oil Testing Laboratory (ITR Building)	
7-	Gas store room beside Oil Laboratory	
8-	Chemical Store Room (ITR Building)	
9-	One container beside Oil Laboratory	
10-	Office room Additional Manager Chemical (ITR)	
11-	Office room Assistant Manager Chemical (ITR)	
12-	Chemical Storage tanks for Storage of Chemicals	