

NATIONAL COMPETITIVE BIDDING

TNCB-16/CIVIL/CFPP/JPCL/2024-25

PROCUREMENT OF CIVIL WORKS

“RECONSTRUCTION OF EXISTING BOUNDARY WALL ALONG INDUS HIGHWAY N-55 JPCL, JAMSHORO AS PER SCHEDULE OF REQUIREMENT, SECTION-V OF THIS TENDER DOCUMENT”

(Single Stage Two Envelope Procedure)

(National Competitive Bidding)



JAMSHORO POWER COMPANY LIMITED

MARCH, 2025

Standard Bidding Documents

For Procurement of Works "Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro"

PART-A – BIDDING PROCEDURE & REQUIREMENTS

Section I - Invitation for Bids

Section II- Instructions to Bidders (ITB)

This Section provides information to help Bidders prepare their Bids. Information is also provided on the submission, opening, and evaluation of Bids and on the award of Contracts.

Section III- Bid Data Sheet (BDS)

This Section includes provisions specific to procurement and to supplement Section-II, Instructions to Bidders.

Section IV - Eligible Countries

This Section contains information regarding eligible countries.

Section V – Evaluation and Qualification Criteria, and Works Requirement

This section contains information regarding evaluation and qualification criteria and Works Requirements, Technical Specifications, Drawings, Supplementary Information and Bill of Quantities.

Section VI – Standard Bidding Forms

This Section includes the standard forms for the Bid Submission, Price Schedules, and Bid Security etc. These forms are to be completed and submitted by the Bidder as part of its Bid.

PART-B – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VII - General Conditions of Contract (GCC)

This Section includes the general clauses to be applied in all the contracts.

Section VIII - Special Conditions of Contract (SCC)

This Section consists of Contract Data and Specific Provisions which contains clauses specific to this contract.

Section IX - Contract Forms

This Section contains forms which, once completed, will become part of the Contract including Letter of Acceptance, Contract Agreement, Integrity Pact and other relevant forms. The forms for **Performance Security/ Guarantee** will be provided by the successful bidder to whom Letter of Acceptance is issued, before the award of contract.

Section X - General Specification of Civil Works

This Section contains the General Consideration/ term and specifications for performing the civil Work

ADVISORY GUIDELINES FOR BIDDERS

The tender document is based on "Single Stage-Two Envelope" procedure, and shall be submitted in accordance with procedure given in **ITB Clause 23.3**, for the ease of bidder(s), the check list is being provided:

The Bid shall comprise on two envelopes enclosed simultaneously; one called the "Technical Proposal" and the other "Financial Proposal". Both envelopes are required to be sealed and enclosed together in an outer single envelope with inscription "**the Bid**". Each Bid should be submitted as under:

- a) The Bidder shall submit his **TECHNICAL PROPOSAL** and **FINANCIAL PROPOSAL** in separate inner envelopes and enclosed in a single outer envelope.
- b) **ORIGINAL** and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
- c) **The Bidder are advised to prepare their bids in accordance with sequence of "Bid Forms" and append the requisite information/documents/certificates/testimonials with relevant forms for the ease of assessment and evaluation.**

Check List

SN	Form No.	Description
Forms T1 to T-16 are to be enclosed with Technical Proposal		
1.	Form T-1	Letter of Bid along with Annexure of Technical Proposal
2.		Annexure of Technical Proposal
3.	Form T-2	Bidder Information Form
4.	Form T-3	Contractor's Representative and Key Personnel Schedule
5.	Form T-4	Resume and Declaration of Contractor's Representative and Key Personnel
6.	Form T-5	Historical Contract Non-Performance, Pending Litigation and Litigation History
7.	Form T-6	Financial Situation and Performance
8.	Form T-7	Average Annual Turnover
9.	Form T-8	Financial Resources
10.	Form T-9	Current Contract Commitments / Works in Progress
11.	Form T-10	Self-Assessment Tool for Bidder's Compliance to Financial Resources
12.	Form T-11	General Construction Experience
13.	Form T-12	Specific Construction and Contract Management Experience
14.	Form T-13	Construction Experience in Key categories
15.	Form T-14	Form of Bid Security (no need to fill this form in case of Pay order /CDR)
16.	Form T-15	Affidavit for Bidder's Blacklisting / Eligibility Status
17.	Form T-16	Power of Attorney

S N	From No.	Description
Forms F-1 to F-2 are to be enclosed with Financial Proposal		
18.	Form F-1	Letter of Bid – Financial Proposal
19.	Form F-2	Bill of Quantities Please Fill in the Bill of Quantity and should be attached in Financial Proposal

Note:

1. All the forms of Section VI “Standard Forms” or “Bid Forms” are required to be filled along with the requisite documents, signed and stamped on letterhead, and Affidavit should be on Stamp Papers
2. Experience Certificates / evidence/ proof of experience must be submitted as required in qualification criteria or in relevant forms.
3. Audited Financial Statements must be attached as required in qualification criteria or in relevant forms.
4. Receipt / Pay Order/ D.D in Favor of “CEO Jamshoro Power Company Limited” for the payment of Rs.5000/-, in case these tender documents downloaded from JPCL website.
5. Any other relevant Information /leaflet/literature/ brochures may be attached.

Attention. Financial Bid Price/ BOQ must be enclosed in sealed Financial Proposal. If the bid price is revealed with Technical Proposal, it may lead to the rejection of bid.

PART-A
BIDDING PROCEDURE & REQUIREMENTS

SECTION I: INVITATION FOR BIDS

Jamshoro Power Company Limited (JPCL), Jamshoro, Sindh-Pakistan



Bid No. TNCB-16/CIVIL/CFPP/JPCL/2024-25

For

“Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document”

Invitation to Bidders

Date: [28.03.2025]

1. This Invitation to Bidders follows the Procurement Advertisement for the subject Procurement which appeared in National Newspapers on 28.03.2025 and uploaded on JPCL/PPRA’s websites on 27.03.2025 (TSE No **TS559390E**)
2. JPCL has reserved the funds from Federal Government PSDP for the subject procurement and intends to cover eligible payments for subject contract.
3. JPCL now, therefore invites sealed bids from the prospective and eligible Contractors/Firms duly licensed by the Pakistan Engineering Council (PEC) in the appropriate category for Value of Works and are Active Taxpayers, holding specific experience or capabilities in construction and satisfying key qualifications and eligibility requirements for the following work:

Description of work	Location	Estimated Cost of Work (Including Taxes) (PKR)	Bid Security 5% (PKR.)	Period of Completion (In Days)
Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document”	Coal Fired Power Plant Jamshoro	15,206,253	760,313	120

4. The bidding shall be conducted in line with the **“single stage-two envelope”** procedure under Rule 36 (b) of the Public Procurement Rules, 2004 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Public Procurement Regulatory Authority (“PPRA”) from time to time and is open to all eligible bidders come up with vast experience in construction works.
5. Tender document can be obtained from PD PIU office on payment of Rs. 5000/- or is available online and can be downloaded from JPCL Website www.jpcl.com.pk.
7. In case, the tender document is downloaded from JPCL websites, the payment amounting to Rs.5000.00, must be made by Pay Order/ D.D in Favor of “CEO Jamshoro Power Company Limited” and the receipt must be attached with the Bid, at the time of its submission, without which the Bid will not be accepted.
8. All bids must be accompanied by a Bid Security in an acceptable form in the amount of PKR 760,313/- (in words: Pak Rupees Seven Hundred Sixty Thousand Three Hundred Thirteen only). or freely convertible currencies in case of foreign Bidders, in favour of **“CEO Jamshoro Power Company Limited”**.
9. The original bid must be attached with Technical Proposal along with a certified true copy, prepared in accordance with the instructions prescribed in the bidding documents, properly filled in, signed and stamped, and enclosed in sealed envelope(s) must be delivered to the address; office of Project Director, Jamshoro Coal Fired Power Project Mohra Jabal, Dadu Road, Jamshoro on or before 1130 hrs. (PST) on Tuesday, 22-04-2025. The bids (the Technical Proposal only) will be

opened promptly thereafter at 1200 hrs. in the presence of bidders' representatives who choose to attend in the opening at JPCL Conference Room, 1st Floor, Main Admin Building, Mohra Jabal, Dadu Road, Jamshoro Sindh.

10. If the last date of purchasing and /or submission falls on a government holiday, then the next working day shall be considered as the last date. In such case the validity period of the bid security shall remain the same as specified for the original last date of bid submission.
11. In the case of discrepancies or error in tender documents, tender notice or any other document, the JPCL reserves the right to amend and correct at any time. **The Evaluation Reports and any Addendum/Corrigendum will be uploaded on JPCL website www.jpcl.com.pk.**
12. The Bidders who have history of non-conformance and have not completed substantially their works at JPCL within stipulated period without judicious grounds, will not be eligible to participate in this Bid.
13. The Bids which are received late from the stipulated date and time, will not be considered and returned unopened. **No bidding documents will be issued on the due date of opening of the bid.**
14. *The Procuring Agency reserves the right to reject any or all bids and to annul the bidding process at any time, prior to the acceptance of a bid or award of contract under Rule-33(1) of PPRA Rules, 2004, without incurring any liability to the bidder(s) or any obligation to inform the bidder(s) of the grounds for JPCL's action.*



Project Director,

Jamshoro Coal Fired Power Project,
Mohra Jabal, Dadu Road, Jamshoro

Phone: 022 9213744, 022 9213742 email: pdpiu@jpcl.com.pk



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SECTION II: INSTRUCTION TO BIDDERS (ITBs)

A. INTRODUCTION

1. Scope of Bid	1.1	The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) , invites Bids for the execution of Works as specified in the BDS and Section V- Work Requirements . The name, identification, and number of lots (contracts) of this National Competitive Bidding process are specified in the BDS.
2. Source of Funds	2.1	Source of funds as referred in Bid Data Sheet. Government of Pakistan PSDP
3. Eligible Bidders	3.1	A bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country.
	3.2	The appointment of Lead Member in the joint venture or consortium shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency (Deleted/Not Applicable/Not Used)
	3.3	A verifiable copy of the agreement that forms a joint venture or consortium shall be required to be submitted as part of the Bid. (Deleted/Not Applicable/Not Used)
	3.4	Any bid submitted by the joint venture or consortium shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority. (Deleted/Not Applicable/Not Used)
	3.5	The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business.
	3.6	Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the national/international competitive bidding with the exception of such procurements made by the foreign missions of Pakistan. For such purposes, the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the Procuring Agency along with their bid, however, the final award will be subject to the complete registration process.
	3.7	A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they: <ul style="list-style-type: none"> a) are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or

		<ul style="list-style-type: none"> b) any of its affiliates has been hired (or is proposed to be hired) by the Procuring Agency as Engineer for the Contract implementation; or c) The works to be executed are resulting from or directly related to consulting services for the preparation or implementation of the project that the bidder provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; d) have controlling shareholders in common; or e) receive or have received any direct or indirect subsidy from any of them; or f) have the same legal representative for purposes of this Bid; or g) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or h) Submit more than one bid in this bidding process.
	3.8	<p>A Bidder may be ineligible if -</p> <ul style="list-style-type: none"> (a) he is declared bankrupt or, in the case of company or firm, insolvent; (b) payments in favor of the bidder are suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property; (c) legal proceedings are instituted against such bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property; (d) the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statutory Body, of any offence involving professional conduct; (e) The bidder is debarred/ blacklisted by a national level Procuring Agency and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration. (f) The bidder is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.
	3.9	<p>Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.</p>

	3.10	Bidders shall provide such evidence of their continued eligibility to the satisfaction of the Procuring Agency, as the Procuring Agency shall reasonably request.
	3.11	Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged.
4. Eligible Material and Equipment	4.1	All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as "Eligible Countries".
	4.2	For purposes of this Clause, "origin" means the place where the material, equipment is produced, manufactured, or processed, or through manufacture, procession, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components or the place from where the services are/to be supplied.
	4.3	The nationality of the bidder shall not determine the origin of the material and equipment.
	4.4	To establish the eligibility of the material and equipment, Bidders shall fill the country-of-origin declarations included in the Form of Bid.
5. One Bid per Bidder	5.1	A bidder shall submit only one bid, in the same bidding process.
	5.2	No bidder can be a sub-contractor while submitting a bid individually or as a member of a joint venture in the same bidding process. (Deleted/Not Applicable/Not Used)
6. Cost of Bidding	6.1	The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

7. Contents of Bidding Documents	7.1	<p>The scope of Works, bidding procedures, and terms and conditions of the contract are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents which should be read in conjunction with any addenda issued in accordance with ITB 9.2 include:</p> <p>Section I -Invitation for Bids Section II Instructions to Bidders (ITBs) Section III Bid Data Sheet (BDS) Section IV Eligible Countries Section-V Eligibility & Qualification Criteria, Works Requirements-Technical Specifications & Schedule of Requirements Section VI Standard Bidding Forms Section VII General Conditions of Contract (GCC) Section VIII Special Conditions of Contract (SCC) Section IX Contract Forms</p>
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		Section X General Specification of Civil Works
	7.2	The number of copies to be completed and submitted with the Bid is specified in the BDS .
	7.3	The Procuring Agency is not responsible for the completeness of the bidding documents and their addenda, if they were not obtained directly from the Procuring Agency or the signed pdf version downloaded from the website of the Procuring Agency or the Authority's website as the case may be. However, Procuring Agency shall place both the pdf and editable version of the same on its website and Authority's website.
	7.4	The bidder is expected to examine all instructions, forms, specifications, terms and conditions prescribed in the bidding documents. Failure to furnish all the information required in the bidding documents will be at the bidder's risk and may result in the rejection of his bid.
8. Clarification of Bidding Document, Pre-bid Meeting	8.1	A prospective bidder requiring any clarification of the bidding document may notify the Procuring Agency in writing or in electronic form that provides record of the contents of communication at the Procuring Agency's address indicated in the BDS .
	8.2	The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than three (03) days prior to the deadline for the submission of Bids as prescribed in ITB 24.1 . However, this clause shall not apply in case of alternate methods of procurement.
	8.3	Copies of the Procuring Agency's response will be forwarded to all identified prospective bidders through an identified source of communication, including a description of the inquiry, but without specifying its source. In case of downloading the bidding documents from the website of Procuring Agency, the response of all such queries will also be available on the same platform available at the website.
	8.4	Should the Procuring Agency deem it necessary to amend the bidding documents because of a clarification, it shall do so following the procedure as prescribed under ITB 09 .
	8.5	If indicated in the BDS , the bidder's designated representative is invited at the bidder's cost to attend a pre-bid meeting at the place, date and time mentioned in the BDS . During this pre-bid meeting, prospective bidders may request clarification of the schedule of requirement, the evaluation criteria or any other aspects of the bidding documents.
	8.6	Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective bidders who have obtained the bidding documents. Any modification to the bidding

		documents that may become necessary as a result of the pre-bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 9 . Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.
	8.7	The bidder(s) is/are advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.
	8.8	The bidder and any of its authorized personnel will be granted permission by the Procuring Agency to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring Agency 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 the inspection.
9. Amendment of Bidding Documents	9.1	Before the deadline for submission of bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder or pre-bid meeting may modify the bidding documents by issuing addenda.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the bidding documents pursuant to ITB 7.1 and shall be communicated in a timely manner and on an equal opportunity basis. Where notification of such change, addition, modification or deletion becomes essential, such notification shall be made in a manner similar to the original advertisement. <i>Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.</i>
	9.3	To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of bids: <i>Provided that the Procuring Agency shall extend the deadline for submission of bid, if such an addendum is issued within last three (03) days of the bid submission deadline.</i>

C. PREPARATION OF BIDS

10. Language of Bid	10.1	The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring Agency shall be written in the English language unless specified in the BDS . Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages
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		in the English language unless specified in the BDS , in which case, for purposes of interpretation of the bidder, the translation shall govern.
11. Documents Establishing Eligibility of Material, Equipment and Works, their Conformity to Bidding Documents	11.1	<p>The bid prepared by the bidder shall constitute the following components: -</p> <ul style="list-style-type: none"> a) Documentary evidence established in accordance with ITB 11 that the material, equipment and services to be provided by the Bidder are eligible material, equipment and services, and conform to the Bidding Documents; b) Documentary evidence established in accordance with ITB 12 that the bidder has been authorized to carry out the Construction works; c) Documentary evidence established in accordance with ITB 12 that the bidder is eligible and/or qualified for the subject bidding process; d) Form of Bid and Bid Prices completed in accordance with ITB 14 and 15; e) Completed schedules as required, including priced Bill of Quantities in accordance with ITB 13 & 15. f) Technical Proposal completed in all aspects in accordance with ITB-17. g) Bid security or Bid Securing Declaration furnished in accordance with ITB 19; h) Alternative bids, if permissible, in accordance with ITB 20; i) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid; and j) Any other document required in the BDS.
	11.2	In addition to the requirements, bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement. (Deleted/Not Applicable/Not Used)
	11.3	The bidder shall furnish, as part of its bid, all those documents establishing eligibility in conformity to the terms and conditions specified in the bidding documents for all material, equipment and works which the bidder proposes to execute.
	11.4	<p>The documentary evidence of conformity of the material, equipment and works to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:</p> <ul style="list-style-type: none"> a) a detailed description of the work methodology, approach, schedule and resources to be mobilized at site; b) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating substantial responsiveness of the material, equipment and works to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications; c) any other procurement specific documentation requirement as stated in the BDS.

	11.5	The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.
12. Documents Establishing Eligibility and Qualification of the Bidder	12.1	The bidder shall furnish, as part of its bid, all those documents establishing the bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.
	12.2	The documentary evidence of the bidder's eligibility to bid shall establish to the satisfaction of the Procuring Agency that the bidder, at the time of submission of its bid, is from an eligible country as defined in Section-IV titled as "Eligible Countries".
	12.3	The documentary evidence of the bidder's qualification to perform the contract if its bid is accepted shall establish to the satisfaction of Procuring Agency that: a) The bidder has the financial and technical capability necessary to perform the Contract, meets the qualification criteria specified in Section-V, Evaluation and Qualification Criteria and BDS . b) In the case of a bidder not doing business within Pakistan, the bidder is or will be (if awarded the contract) represented by a local bidder (Joint Venture) in accordance with the PEC works bylaws, and in case of award of works such foreign firm is required to participate in the execution of works to carry out its obligations as prescribed in the Conditions of Contract and /or Technical Specifications. c) That the bidder meets the qualification criteria listed in Section-V, Evaluation and Qualification Criteria and BDS .
13. Letter of Bid and Schedules	13.1	The Letter of Bid (Technical or Financial as the case may be) and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Standard Bid Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 22 . All blank spaces shall be filled with the information requested.
14. Letter of Bid	14.1	The bidder shall fill the Letter of Bid (Technical or Financial as the case may be) furnished in the bidding documents. The Standard Bid Forms must be completed without any alterations to its format and no substitute shall be accepted.
15. Bid Prices	15.1	The bid prices quoted by the bidder in the Standard bid Forms, Bill of Quantities and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the bidding documents.
	15.2	The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will not be paid for separately by the Procuring Agency.

	15.3	<p>Items not listed in the Price Schedule shall be assumed not to be included in the bid, and provided that the bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s):</p> <p>Provided that:</p> <ul style="list-style-type: none"> a) where there is only one (substantially) responsive bidder, or b) where there is provision for alternate proposals and the respective items are not listed in the other bids, <p>The Procuring Agency may fix the price of missing items in accordance with the market survey, and the same shall be considered as the final price.</p>
	15.4	The Bid price to be quoted in the Form of Bid in accordance with ITB 15.1 shall be the total price of the bid.
	15.5	Unless otherwise specified in the BDS and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.
	15.6	If so, specified in ITB 1.1 , bids may be invited for individual lots (contracts) or for any combination of lots (packages).
	15.7	Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and shall be rejected, pursuant to ITB 30 , unless otherwise price adjustment is permissible under Conditions of the Contract.
	15.8	All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date twenty-eight (28) days prior to the deadline for submission of bids, shall be included in the rates and prices and the total bid price submitted by the bidder.
16. Currencies of Bid and Payment	16.1	The currency(ies) of the bid and the currency(ies) of payments shall be as specified in the BDS .
	16.2	For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
	16.3	Bidders shall indicate details of their expected foreign currency requirements in the Bid, if prescribed in the BDS.
	16.4	Bidders may be required by the Procuring Agency to clarify their foreign currency requirements, if prescribed in the BDS and to substantiate that the amounts included in Lump Sum and in the SCC are reasonable and responsive to ITB 16.1 .

<p>17. Documents Comprising the Technical Proposal</p>	<p>17.1</p>	<p>The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section VI – Standard Bid Forms, in sufficient detail to demonstrate the adequacy of the bidder’s proposal to meet the work requirements and the completion time.</p>
<p>18. Bid Validity Period</p>	<p>18.1</p>	<p>Bids shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by the Procuring Agency. A bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive. The period of bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration, as the case may be.</p>
	<p>18.2</p>	<p>Under exceptional circumstances, prior to the expiration of the initial bid validity period, the Procuring Agency may request the bidders’ consent to an extension of the period of validity of their bids only once, for the period not more than the period of initial bid validity. The request and the bidders’ responses shall be made in writing or in electronic forms that provide a record of the content of communication. The Bid Security provided under ITB 19 shall also be extended 28 days beyond the deadline for the extended bid validity period. A bidder may refuse the request for the extension of his bid without forfeiting his bid security or causing to be executed his Bid Securing Declaration. A bidder agreeing to the request will not be required nor permitted to modify its bid but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension, and in compliance with ITB 19 in all respects.</p>
<p>19. Bid Security or Bid Securing Declaration</p>	<p>19.1</p>	<p>Pursuant to ITB 11.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in form of fixed amount not exceeding five percent of the estimated value of procurement determined by the Procuring Agency and in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section VI (Standard Bidding Forms). In case Procuring Agency is inviting bids in lots / packages, the bidder shall be required to submit his bid security against the respective lot/ package for which he is submitting his bid, which shall not exceed five percent of the estimated value of that particular lot/ package.</p>
	<p>19.2</p>	<p>The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder’s conduct before award of the contract to the most advantageous bidder which would warrant the security’s forfeiture, pursuant to ITB 19.9.</p>
	<p>19.3</p>	<p>The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following: a) A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring</p>

		<p>Agency and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the bidder;</p> <p>b) A cashier's or certified cheque; or</p> <p>c) Another security as indicated in the BDS.</p>
	19.4	The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Section VI (Standard Bidding Forms) or another form approved by the Procuring Agency prior to the bid submission.
	19.5	The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in ITB 19.9 are invoked.
	19.6	Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 19.1 or 19.3 shall be rejected by the Procuring Agency and shall be declared as non-responsive bid, pursuant to ITB 30 .
	19.7	<p>Unsuccessful bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring Agency pursuant to ITB 18. The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:</p> <p>(a) The expiry of the Bid Security;</p> <p>(b) The entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Bidding documents;</p> <p>(c) The rejection by the Procuring Agency of all Bids;</p> <p>(d) The withdrawal of the bid prior to the deadline for the submission of bids, unless the bidding documents stipulate that no such withdrawal is permitted.</p>
	19.8	The successful bidder's Bid Security will be discharged upon the bidder signing the contract pursuant to ITB 47 , or furnishing the performance security (or guarantee), pursuant to ITB 48 .
	19.9	<p>The Bid Security may be forfeited or the Bid Securing Declaration executed:</p> <p>a) if a Bidder:</p> <p>i) Withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the bidder on the Form of Bid except as provided for in ITB 18.2; or</p> <p>ii) Does not accept the correction of errors pursuant to ITB 32; or</p> <p>b) In the case of a successful bidder, if the bidder fails:</p> <p>i) to sign the contract in accordance with ITB 47; or</p> <p>ii) to furnish performance security (or guarantee) in accordance with ITB 48.</p>

	19.10	In case of Bid Security issued by the foreign bank is allowed by the Procuring Agency, the same should be counter guaranteed by a corresponding bank in Pakistan. Furthermore, in case of joint venture, it should be in the name of Joint venture to ensure joint responsibility.
20. Alternative Bids by Bidders	20.1	Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic bidder's technical design as indicated in the specifications and Bill of Quantities. Alternatives will not be considered, unless specifically allowed for in the BDS . If so allowed, ITB 20 shall prevail. (Deleted/Not Applicable/Not Used) .
	20.2	When alternative schedule for execution of works is explicitly invited, a statement of that effect will be included in the BDS as will the method for evaluating different schedule for execution of works. (Deleted/Not Applicable)
	20.3	If so allowed in the BDS , bidders wishing to offer technical alternatives to the requirements of the bidding documents must also submit a bid that complies with the requirements of the bidding documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic bid, the bidder shall provide all information necessary for a complete evaluation of the alternative by the Procuring Agency, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the Most Advantageous Bidder conforming to the basic technical requirements (without altering the bid price) shall be considered by the Procuring Agency. (Deleted/Not Applicable)
21. Withdrawal of Bids	21.1	Before bid submission deadline, any bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and the corresponding must accompany the respective written notice.
	21.2	Bids requested to be withdrawn in accordance with ITB 21.1 shall be returned unopened to the bidders.
22. Format and Signing of Bid	22.1	The Bidder shall prepare an original and the number of copies of the bid as indicated in the BDS , clearly marking each "ORIGINAL" and "COPY" as appropriate. In the event of any discrepancy between them, the original shall prevail: <i>Provided that except in Single Stage One Envelope Procedure, the bid shall include only the copies of technical proposal.</i>
	22.2	The original and the copy (ies) of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to sign on behalf of the bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid, except for un-amended printed literature, shall be initialized by the person or persons signing the bid.
	22.3	Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person(s) authorized for signing the Bid.

D. SUBMISSION OF BIDS

<p>23. Sealing and Marking of Bids</p>	<p>23.1</p>	<p>In case of Single Stage One Envelope Procedure, the bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY”. The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.</p> <p>Note: <i>The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred to in Rule-36 of Public Procurement Rules,2004. (Deleted/Not Applicable/Not Used)</i></p>
	<p>23.2</p>	<p>The inner and outer envelopes shall:</p> <ol style="list-style-type: none"> a) be addressed to the Procuring Agency at the address given in the BDS; and b) bear the title of the subject procurement or project name, as the case may be as indicated in the BDS, the Invitation for Bids (ITB) title and number indicated in the BDS, and a statement: “DO NOT OPEN BEFORE”, to be completed with the time and the date specified in the BDS, pursuant to ITB 24.1.
	<p>23.3</p>	<p>In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under:</p> <ol style="list-style-type: none"> d) Bidder shall submit his TECHNICAL PROPOSAL and FINANCIAL PROPOSAL in separate inner envelopes and enclosed in a single outer envelope. e) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such. f) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in ITB 23.2.
	<p>23.4</p>	<p>The inner and outer envelopes shall:</p> <ol style="list-style-type: none"> a) be addressed to the Procuring Agency at the address provided in the BDS; b) bear the name and identification number of the contract as defined in the BDS; and provide a warning not to open before the time and date for bid opening, as specified in the BDS pursuant to ITB 24.1. c) In addition to the identification required in ITB 23 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 ITB 25.
	<p>23.5</p>	<p>If all envelopes are not sealed and marked as required by ITB 23.2, ITB 23.3 and ITB 23.4 or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of bid.</p>

24. Deadline for Submission of Bids	24.1	Bids shall be received to the Procuring Agency no later than the date and time specified in the BDS .
	24.2	The Procuring Agency may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB 9 , in which case all rights and obligations of the Procuring Agency and bidders previously subject to the deadline will thereafter be subject to the new deadline.
25. Late Bids	25.1	The Procuring Agency shall not consider for evaluation of any bid that arrives after the deadline for submission of bids, in accordance with ITB 24 .
	25.2	Any bid received by the Procuring Agency after the deadline for submission of bids shall be declared late, recorded, rejected and returned unopened to the bidder.
26. Substitution and Modification of bids	26.1	A bidder may substitute or modify his bid after it has been submitted, provided that written notice of the substitution or modification of the bid, is received by the Procuring Agency prior to the deadline for submission of bids.
	26.2	Revised bid may be submitted after the substitution or modification made in the original bid in accordance with the provisions referred in ITB 22 .

E. OPENING AND EVALUATION OF BIDS

27. Opening of Bids	27.1	The Procuring Agency will open all bids, in public, in the presence of bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the bid proceedings at the place, on the date and at the time, specified in the BDS . The bidders' representatives present shall sign a attendance sheet as proof of their attendance.
	27.2	First, envelopes marked " WITHDRAWAL " shall be opened and read out and the envelope with the corresponding bid shall not be opened but returned to the bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening.
	27.3	Second, outer envelopes marked " SUBSTITUTION " shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
	27.4	Next, outer envelopes marked " MODIFICATION " shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the bids. Any

		modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date.
	27.5	Other envelopes holding the bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the bidders' names, the bid prices, the total amount of each bid and of any alternative bid (if alternatives have been requested or permitted), the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.
	27.6	In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the BDS in the presence of bidders' designated representatives who choose to attend and other parties with a legitimate interest in the bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening.
	27.7	The envelopes holding the Technical Proposals 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 of a Bid Security or Bid Securing Declaration, if required; and (d) Any other details as the Procuring Agency may consider appropriate.
	27.8	Bids not opened and not read out at the bid opening shall not be considered further for evaluation, irrespective of the circumstances.
	27.9	Bidders are advised to send in a representative with the knowledge of the content of the bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the bidder's bid.
	27.10	No bid will be rejected at the time of bid opening except for late bids which will be returned unopened to the bidder, pursuant to ITB 25 .
	27.11	The Procuring Agency shall prepare minutes of the bid opening. The record of the bid opening shall include, as a minimum: the name of the bidder and whether or not there is a withdrawal, substitution or modification, the bid price if applicable and the presence or absence of a Bid Security or Bid Securing Declaration.
	27.12	The bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a bidder's

		signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the bidders.
	27.13	A copy of the minutes of the bid opening shall be furnished to individual bidders upon request.
	27.14	In case of Single Stage -Two Envelop Bidding Procedure, after the announcement of technical evaluation report, the Procuring Agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically responsive bidder only. The financial proposal of bidders found technically non-responsive shall be returned un-opened to the respective bidders after seven days of the announcement of technical evaluation report, except those aggrieved bidder(s) whose complaints are pending before the Grievance Redressal Committee.
28. Confidentiality	28.1	Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.
	28.2	Any effort by a bidder to influence the Procuring Agency processing of bids or award decisions may result in the rejection of its bid.
	28.3	Notwithstanding ITB 28.2 from the time of bid opening to the time of contract award, if any bidder wishes to contact the Procuring Agency on any matter related to the bidding process, it should do so in writing or in electronic forms that provides a record of the content of communication.
29. Clarification of Bids	29.1	To assist in the examination, evaluation and comparison of bids, the Procuring Agency may, ask any bidder for a clarification of its bid including breakdown of prices invariably in writing. Any clarification submitted by a bidder that is not in response to a request by the Procuring Agency shall not be considered.
	29.2	The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. No change in the prices or substance of the bid shall be sought, offered, or permitted, except clarification for the correction of arithmetic errors discovered by the Procuring Agency during the evaluation of bids which shall be sought in accordance with ITB 32 .
	29.3	The alteration or modification in the bid which in any case affect the following parameters will be considered as a change in the substance of a bid: <ul style="list-style-type: none"> a) evaluation & qualification criteria; b) required scope of work; c) contract price; d) all securities requirements; e) tax requirements; f) terms and conditions of bidding documents.

		g) change in the ranking of the bidder
	29.4	From the time of bid opening to the time of Contract award if any bidder wishes to contact the Procuring Agency on any matter related to the bid it should do so in writing or in electronic forms that provide record of the content of communication.
30. Preliminary Examination of Bids	30.1	<p>Prior to the detailed evaluation of bids, the Procuring Agency will determine whether each bid:</p> <ul style="list-style-type: none"> a) meets the eligibility criteria defined in ITB 3 and ITB 4. b) has been prepared as per the format and contents defined by the Procuring Agency in the bidding documents. c) has been properly signed. d) is accompanied by the required security; and e) is substantially responsive to the requirements of the bidding documents. <p>The Procuring Agency's determination of a bid's substantial responsiveness will be based on the contents of the bid itself.</p>
	30.2	<p>A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: -</p> <ul style="list-style-type: none"> a) affects in any substantial way the scope, quality, or performance of the Works; b) limits in any substantial way, inconsistent with the bidding documents, the Procuring Agency's rights or the bidders' obligations under the Contract; or c) if rectified, would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
	30.3	The Procuring Agency will confirm that the documents and information specified under ITB 11, 12 and 13 have been provided in the bid. If any of these documents or information is missing or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.
	30.4	<p>The Procuring Agency may waive-off any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.</p> <p><i>Explanation: A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the works. The Procuring Agency either shall give the bidder an</i></p>

		<p><i>opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring Agency. Examples of minor informalities or irregularities include failure of a bidder to –</i></p> <p>(a) <i>Submit the number of copies of signed bids required by the invitation;</i></p> <p>(b) <i>Furnish required information concerning the number of its employees;</i></p> <p>(c) <i>the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.</i></p>
	30.5	<p>Provided that a Technical Bid is substantially responsive, the Procuring Agency may request the bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the bidder to comply with the request may result in the rejection of its bid.</p>
	30.6	<p>Provided that a Technical Bid is substantially responsive, the Procuring Agency shall rectify quantifiable non-material nonconformity or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.</p>
	30.7	<p>If a bid is not substantially responsive, it will be rejected by the Procuring Agency and may not subsequently be evaluated for complete technical responsiveness.</p>
31. Examination of Terms and Conditions; Technical Evaluation	31.1	<p>The Procuring Agency shall examine the bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the bidder without any material deviation or reservation.</p> <p>For this purpose: “Deviation” means departure from the requirements specified in the Bidding Document. “Reservation” means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.</p>
	31.2	<p>The Procuring Agency shall evaluate the technical aspects of the bid submitted in accordance with ITB 31, to confirm that all requirements specified in Section V – Works Requirement, Technical Specifications of the Bidding Documents have been met without material deviation or reservation.</p>

	31.3	If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the bid is not substantially responsive in accordance with ITB 30 , it shall reject the bid.
32. Correction of Arithmetic Errors	32.1	<p>Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -</p> <ul style="list-style-type: none"> a) if there is a discrepancy between unit prices and the sub-total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the sub-total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected; b) if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail, and the total shall be corrected; and c) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern. d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.
	32.2	The amount stated in the Bid will, be rectified by the Procuring Agency in accordance with the above procedure for the correction of errors and, with, the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with ITB 19.9 .
33. Conversion to Single Currency	33.1	The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the Works from outside the Procuring Agency's country (referred to as the "Foreign Currency Requirements") shall indicate the same in the letter of bid-financial proposal. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.

	33.2	To facilitate evaluation and comparison, the Procuring Agency will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
	33.3	The currency selected for converting bid prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the BDS .
34. Evaluation of Bids	34.1	The Procuring Agency shall evaluate and compare only the bids determined to be substantially responsive, pursuant to ITB 30 .
	34.2	In evaluating the Technical Proposal of each Bid, the Procuring Agency shall use the criteria and methodologies listed in the BDS and in terms of works requirement. No other evaluation criteria or methodologies shall be permitted.
	34.3	The Procuring Agency's evaluation of a bid will take into account: <ul style="list-style-type: none"> a) the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively; b) price adjustment for correction of arithmetic errors in accordance with ITB 32.1; c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITB 33;
	34.4	The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
	34.5	If these bidding documents allow bidders to quote separate prices for different lots, and the award to a single bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the BDS .
	34.6	If the bid, which results in the Evaluated Bid Price (Most Advantageous Bid), is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder

		<p>to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.</p> <p>Explanation: <i>“Unbalanced” or “front-loaded” bids consist of deliberately submitting bids with artificially high prices or unit rates for the early stages of a construction project, offset by artificially low prices or unit rates for the later stages of the project, to improve the contractor’s cash flow.</i></p>
35. Domestic Preference	35.1	If the BDS so specifies, the Procuring Agency will grant a margin of preference to the domestic contractor in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.
36. Determination of Most Advantageous Bid	36.1	The Procuring Agency shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Most Advantageous bidder.
37. Qualification of Bidder	37.1	<p>The Procuring Agency shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as most advantageous bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria.</p> <p><i>Note: In case of international bidding, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.</i></p>
	37.2	The determination shall be based upon an examination of the documentary evidence of the bidder’s qualifications submitted by the bidder, pursuant to ITB 12 .
	37.3	Prior to contract award, the Procuring Agency will verify that the successful bidder (including each member of a JV) is not blacklisted/debarred. The Procuring Agency will conduct the same verification for each sub-contractor proposed by the successful bidder.
38. Sub-Contractors	38.1	The bidder shall provide details regarding any specialized sub-contractor to the Procuring Agency. In case change of sub-contractors, the bidder shall promptly notify the Procuring Agency and obtain approval for replacement of sub-contractors. (Deleted/Not Applicable/Not Used)
	38.2	Bidders may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the BDS . ((Deleted/Not Applicable/Not Used)
39. Abnormally Low Financial Bid	39.1	Where the bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Most Advantageous Bid or as a part of the post-qualification process. The following process shall apply:

		<p>a) The Procuring Agency may reject a bid if the Procuring Agency has determined that the price in combination with other constituent elements of the bid is abnormally low in relation to the subject matter of the procurement (i.e. scope of the procurement or ancillary services) and raises concerns as to the capability and capacity of the respective Bidder to perform that contract;</p> <p>b) Before rejecting an abnormally low bid the Procuring Agency shall request the bidder an explanation of the bid or of those sections which it considers contribute to the bid being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the bid or parts of the bid being abnormally low;</p> <p>c) The decision of the Procuring Agency to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned;</p> <p>d) The Procuring Agency shall not incur any liability solely by rejecting abnormally bid; and</p> <p>e) An abnormally low bid means, in the light of the Procuring Agency’s estimate and of all the bids submitted, the bid appears to be abnormally low by not providing a margin for normal levels of profit.</p> <p>Guidance for Procuring Agency: In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity:</p> <p>(i) Comparing the bid price with the cost estimate;</p> <p>(ii) Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and</p> <p>(iii) Comparing the bid price with prices paid in similar contracts in the recent past either government- or development partner-funded.</p>
	39.2	<p>The Procuring Agency will determine to its satisfaction whether the bidder that is selected as having submitted the most advantageous bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB 12</p>
	39.3	<p>The determination will take into account the bidder’s financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder’s qualifications submitted by the bidder, pursuant to ITB 12, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders’ qualifications.</p>

	39.4	<p>Procuring Agency may seek “Certificate for Independent Price Determination” from the bidder and the results of reference checks may be used in determining award of contract.</p> <p><i>Explanation: The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.</i></p>
	39.5	<p>An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder’s bid, in which event the Procuring Agency will proceed to the next ranked bidder to make a similar determination of that bidder’s capabilities to perform satisfactorily.</p>

F. AWARD OF CONTRACT

40. Criteria of Award	40.1	<p>Subject to ITB 36 and 37, the Procuring Agency will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Most Advantageous Bidder, provided that such bidder has been determined to be:</p> <ul style="list-style-type: none"> a) eligible in accordance with the provisions of ITB 3; b) is determined to be qualified to perform the Contract satisfactorily; and c) Successful negotiations have been concluded, if any.
41. Negotiations	41.1	<p>The Committee of the Procuring Agency may negotiate with the Most Advantageous Bidder relating to the following areas:</p> <ul style="list-style-type: none"> (a) a minor alteration to the technical (drawings, design technical specifications) details of the statement of works; (b) Methodology, work plan, staffing in view to streamline the work; (c) a minor amendment to the special conditions of Contract; (d) finalizing payment arrangements; (e) clarifying details that were not apparent or could not be finalized at the time of Bidding;
	41.2	<p>Where negotiation fails to result into an agreement, the Procuring Agency may invite the next ranked bidder for negotiations. Where negotiations are commenced with the next ranked bidder, the Procuring Agency shall not reopen earlier negotiations.</p>
42. Procuring Agency’s Right to reject All Bids	42.1	<p>Notwithstanding ITB 37, the Procuring Agency reserves the right to reject all the bids, and to annul the bidding process at any time prior to acceptance of bid, without thereby incurring any liability to the affected bidder(s). However, the Authority (i.e. PPRA) may call from the Procuring Agency the justification of those grounds.</p>

	42.2	Notice of the rejection of all bids shall be given promptly to all bidders that have submitted bids.
	42.3	The Procuring Agency shall upon request communicate to any bidder the grounds for its rejection of its bids, but is not required to justify those grounds.
43. Variations	43.1	<p>The engineer/employer shall make any variation in the quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion, be appropriate, he shall have the authority to instruct the Contractor to do and the Contractor shall do any of the following:</p> <ol style="list-style-type: none"> a) increase or decrease the quantity of any work included in the Contract, b) omit any such work (but not if the omitted work is to be carried out by the Employer or by another contractor), c) change the character or quality or kind of any such work, d) change the levels, lines, position and dimensions of any part of the Works, e) execute additional work of any kind necessary for the completion of the Works, or f) change any specified sequence or timing of construction of any part of the Works. <p>No such variation shall in any way vitiate or invalidate the Contract, but the effect, if any, of all such variations shall be valued in accordance with ITB 15. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor.</p>
44. Instructions for variations	44.1	The Contractor shall not make any such variation without an instruction of the engineer/employer. Provided that no instruction shall be required for an increase or decrease in the quantity of any work where such increase or decrease is not the result of an instruction given under this Clause but is the result of the quantities exceeding or being less than those stated in the Bill of Quantities.
45. Valuation of Variations	45.1	All variations and any additions to the Contract Price which are required to be determined in accordance with ITB 15 (for the purposes of this Clause referred to as "varied work"), shall be valued at the rates and prices set out in the Contract if, in the opinion of the engineer/employer, the same shall be applicable. If the Contract does not contain any rates or prices applicable to the varied work, the rates and prices in the Contract shall be used as the basis for valuation so far as may be reasonable, failing which, after due consultation by the engineer/employer with the Procuring Agency and the Contractor, suitable rates or prices shall be agreed upon between the engineer/employer and the Contractor. In the event of disagreement, the engineer/employer shall fix such rates or prices as are, in his opinion, appropriate and shall

		notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed or fixed, the engineer/employer shall determine provisional rates or prices to enable on-account payments to be included in certificates issued in accordance with ITB 15 .
46. Notification of Award	46.1	Prior to the award of contract, the Procuring Agency shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.
	46.2	Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Procuring Agency prior to expiration of the bid validity period in writing or through electronic means that provide record of the content of communication. However, the Procuring Agency shall not award any procurement contract at least for fifteen (15) days after the acceptance of bid. The notification letter (herein after and in the condition of the contract and contract form called "Letter of Acceptance" will specify the sum that the Procuring Agency will pay the successful bidder in consideration for the execution and completion of the works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).
	46.3	The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with ITB 48 and signing of the contract in accordance with ITB 47 .
	46.4	Upon the successful bidder's furnishing of the performance security (or guarantee) pursuant to ITB 48 , the Procuring Agency will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the bidder(s) pursuant to ITB 19 .
47. Signing of Contract	47.1	Promptly after notification of award, Procuring Agency/ Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.
	47.2	Immediately after the Redressal of grievance by the GRC, and after fulfillment of all conditions' precedent of the Contract Form, the successful bidder and the Procuring Agency/ Employer shall sign the contract.
	47.3	Where no formal signing of a contract is required, work order issued to the bidder shall be construed to be the contract.
48. Performance Security (or Guarantee)	48.1	After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Procuring Agency a Performance Guarantee in the amount and in the form stipulated in the BDS and SCC , denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

	48.2	<p>If the Performance Guarantee is provided by the successful bidder and it shall be in the form specified in the BDS which shall be in any of the following:</p> <p>(a) certified cheque, cashier's or manager's cheque, or bank draft;</p> <p>(b) irrevocable letter of credit issued by a scheduled bank of Pakistan or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a scheduled bank of Pakistan;</p> <p>(c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign bidder, bonded by a foreign bank; or</p> <p>(d) surety bond callable upon demand issued by any reputable surety or insurance company.</p> <p>Any Performance Guarantee submitted shall be enforceable in Pakistan.</p>
	48.3	<p>Failure of the Most Advantageous Bidder to comply with the requirement of ITB 47 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event the Procuring Agency may make the award to the next most advantageous bidder or re-initiate the procurement process afresh (as a case may be).</p>
49. Advance Payment	49.1	<p>Advance payment will be provided to the bidder in percentage and in the manner as agreed by both parties in terms of Conditions of the Contract.</p> <p>(Deleted/Not Applicable/Not Used)</p>
	49.2	<p>The Procuring Agency will provide an advance payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated and/or Conditions of the Contract. The advance payment request shall be accompanied by an advance payment security (guarantee) in the form provided in Section X. For the purpose of receiving the advance payment, the bidder shall make and estimate of, and include in its bid, the expenses that will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring Agency's "Notice to Commence" as specified in the SCC. (Deleted/Not Applicable/Not Used)</p>
50. General Performance of the Bidders	50.1	<p>The Procuring Agency reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Procuring Agency may seek information / report from the previous employer for consideration. However, the Procuring Agency shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.</p>
51. Corrupt & Fraudulent Practices	51.1	<p>Procuring agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the</p>

procurement and execution of such contracts, and will avoid engaging in any corrupt and fraudulent practices.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

52. Constitution of Grievance Redressal	52.1	Procuring Agency shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of persons with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending on the nature of the procurement.
53. GRC Procedure	53.1	Any party can file its written complaint against the eligibility parameters, or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.
	53.2	Any bidder feeling aggrieved by any act of the Procuring Agency after the submission of his bid may lodge a written complaint concerning his grievances not later than seven days of the announcement of technical evaluation report and five days after issuance of final evaluation report.
	53.3	In case the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.
	53.4	In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report: Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelope bidding procedure is adopted.
	53.5	The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.
	53.6	Any bidder or the Procuring Agency not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the Prescribed fee.
	53.7	The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respects, shall serve notices in writing upon all the parties to Appeal.
	53.8	The committee shall call the record from the concerned Procuring Agency or the GRC as the case may be, and the same shall be provided within prescribed time.
	53.9	The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.
	53.10	The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.

H. MECHANISM OF BLACKLISTING

<p>54. Mechanism of Blacklisting</p>	<p>54.1</p>	<p>The Procuring Agency shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules; i) Fails to perform his contractual obligations; and ii) Fails to abide by the id securing declaration;</p>
	<p>54.2</p>	<p>The show cause notice shall contain: (a) precise allegation, against the bidder or contractor; (b) the maximum period for which the Procuring Agency proposes to debar the bidder or contractor from participating in any public procurement of the Procuring Agency; and (c) the statement, if needed, about the intention of the Procuring Agency to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies.</p>
	<p>54.3</p>	<p>The Procuring Agency shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice.</p>
	<p>54.4</p>	<p>In case, the bidder or contractor fails to submit written reply within the requisite time, the Procuring Agency may issue notice for personal hearing to the bidder or contractor/ authorize representative of the bidder or contractor and the Procuring Agency shall decide the matter on the basis of available record and personal hearing, if availed.</p>
	<p>54.5</p>	<p>In case the bidder or contractor submits written reply of the show cause notice, the Procuring Agency may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing.</p>
	<p>54.6</p>	<p>The Procuring Agency shall give minimum of seven days to the bidder or contractor for appearance before the designated officer of the Procuring Agency for personal hearing. The designated officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed.</p>
	<p>54.7</p>	<p>The Procuring Agency shall decide the matter within fifteen (15) days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.</p>
	<p>54.8</p>	<p>The Procuring Agency shall communicate to the bidder or contractor the order of debarring the bidder or contractor from participating in any public procurement with a statement that the bidder or contractor may, within thirty (30) days, prefer a representation against the order before the Authority.</p>
	<p>54.9</p>	<p>Such blacklisting or barring action shall be communicated by the Procuring Agency to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after</p>

		examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the Procuring Agency.
	54.10	The bidder may file the review petition before the Review Petition Committee Authority within thirty (30) days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with "Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021". The Committee shall evaluate the case and decide within ninety (90) days of filing of review petition.
	54.11	The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of the Procuring Agency. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit.
	54.12	The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.

SECTION III: BID DATA SHEET

Bid Data Sheet (BDS)

The following specific data for the procurement of works shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITBs). Whenever there is a conflict, the provisions herein shall prevail over those in ITBs.

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
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A. Introduction

1.	1	<p>Name of Procuring Agency: Jamshoro Power Company Limited (JPCL), a government owned company, incorporated and existing under the laws of the Islamic Republic of Pakistan, having its principal place of business at Mohra Jabal, Dadu Road, Jamshoro, Pakistan</p> <p>The subject of procurement is: "Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document"</p> <p>Period for completion of the works: Within 120 days from the date of commencement which shall be mentioned in notice to commence "NTC"</p> <p>Commencement date execution of the works: Three (3) days after issuance of NTC</p> <p>Type of Procurement: National competitive bidding TNCB-16/CIVIL/CFPP/JPCL/2024-25</p>
2.	2.1	<p>Financial year for the operations of the Procuring Agency: Financial year 2024-25</p> <p>Name of Project 660MW, Coal Fired Power Plant, owned by JPCL, located at Jamshoro</p> <p>Name of financing institution: Federal Government PSDP</p> <p>Name and identification number of the Contract: TNCB-16/CIVIL/CFPP/JPCL/2024-25</p>
3.	3.1	<p>This Clause ITB.3 is substituted with the following: Bidding is open to all firms and contractors meeting requirements and satisfying all relevant licensing and/or registration with the appropriate statutory bodies in Pakistan as prescribed in ITB.3 and listed below;</p> <p>(a) The Bidder must be financially and technically sound - capable to perform the contract:</p> <p>(b) Duly Licensed and renewed by PEC for FY 2024-25 in the appropriate category for value of the Works in the financial category of C-6 & above and Technical Category of CE-10.</p> <p>(c) Registered and be on active taxpayer list of the (FBR) and registration with Sindh Revenue Board (SRB)</p> <p>(d) Registered with S&EC or Registrar of Firms / Submission of Affidavit for Sole Proprietorship on Judicial Stamp Paper.</p>

		(e) An affidavit to the effect that the Bidder is not blacklisted or debarred in any Public/Private organization.
4.	3.1	Maximum number of members in the joint venture, consortium shall be: <i>Not Allowed/Permitted</i>

B. Bidding Documents

5.	7.2	The number of copies to be completed and returned is One Original and <i>certified true copy of original</i>
6.	8.1	The address for clarification of Bidding Documents is <i>Project Director PIU</i> <i>660MW, Coal Fired Power Project Jamshoro,</i> <i>Jamshoro Power Company Limited (JPCL) Mohra Jabal, Sehwan Dadu Road Jamshoro</i> <i>Email: pdpiu@jpcl.com.pk</i> <i>Telephone: +92 (22) 9213744</i>
	8.5	Pre-bid meeting/Site visit will be held: <i>Pre-bid meeting will take place at 1100 Hrs. on Thursday, 10-04-2025 at JPCL Conference Room, 1st Floor, Main Admin Building, Mohra Jabal, Sehwan-Dadu Road, Indus Highway, TPS Jamshoro and followed by site visit.</i>

C. Preparation of Bids

7.	10.1	The Language of all correspondences and documents related to the Bid is: <i>English language</i>
8.	11.1 (i)	In addition to the documents stated in ITB 11 , the following documents must be included with the Bid <ul style="list-style-type: none"> • <i>Covering Letter</i> • <i>Form of Bid duly filled in, signed and sealed</i> • <i>Bid Security</i> • <i>Power of Attorney</i> • <i>Documents establishing bidder's Eligibility and Qualification information.</i> • <i>Documents establishing conformity of work to the bidding documents</i>
9.	11.5	Other procurement specific documentation requirements are: <ul style="list-style-type: none"> • <i>Work Plan & Schedule (Detailed construction timelines and methodology)</i> • <i>Material Test Reports (Quality assurance for Bricks, Cement, Sand (Fine aggregate), Mortar & Plaster and Water)</i> • <i>Safety Plan (worker safety measures etc.)</i>
10.	15.5	The bid price shall be adjusted in accordance with Appendix A - Formula for Price Adjustment. <i>The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.</i>
11.	15.6	Name of the works

		<p><i>"Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document"</i></p> <p>The identification No. The No. and identification of lots (contracts) comprising this open competitive bid TNCB-16/CIVIL/CFPP/JPCL/2024-25</p>
12.	16.1	The currency of the Bid shall be Pakistani Rupee
13.	18.1	The Bid Validity period shall be 60 days.
14.	19.1	<p>The amount of Bid Security shall be</p> <p><i>The amount of Bid Security shall be Rs. 760,313/- The bid security shall be in the shape of CDR/Pay Order/unconditional Bank Guarantee from any schedule bank of Pakistan and shall remain valid twenty-eight (28) days after the Bid Validity Period and enclosed with Technical Proposal.</i></p> <p><i>The currency of the Bid Security shall be: Pakistani Rupee</i></p>
15.	19.3	<p>The Bid Security shall be in the form of: <i>CDR (Call Deposit Receipt), Pay Order or unconditional Bank Guarantee enforceable in Pakistan in favour of "Chief Executive Officer, JPCL Jamshoro"</i></p>
16.	19.3 (c)	Other forms of security are: Not Applicable
17.	20.1	Alternative Bids to the requirements of the Bidding Documents will not be permitted.
18.	20.2	<p>If alternative scheduled for execution of work is explicitly invited (please insert the method for evaluation of different schedules for execution of works)</p> <p>Not Applicable</p>
19.	22.1	The number of copies of the Bid to be completed and returned shall be two (2); One Original, One certified true copy.
20.	22.2	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of: <i>Duly notarized Power of Attorney authorizing the signatory of the Bidder to submit the Bid with CNIC No., Cell. No. Address and the identification deemed necessary by the Procuring Agency</i></p>

D. Submission of Bids

21.	23.2 (a)	<p>Bid shall be submitted</p> <p>Office of Project Director PIU (Director Procurement) <i>2nd Floor, Main Admin Building, 660MW, Jamshoro Coal Fired Power Project, Mohra Jabal, Dadu Road, Indus Highway, Jamshoro, Sindh-Pakistan</i></p>
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22.	23.2 (b)	<p>Title of the subject Procurement or Project name: <i>"Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document"</i></p> <p>ITB title and No: TNCB-16/CIVIL/CFPP/JPCL/2024-25 Statement "DO NOT OPEN BEFORE DEADLINE"</p>
23.	24.1	<p>The deadline for Bid submission is</p> <p>a) Day: Tuesday b) Date:22-04-2025 c) Time:1130 Hrs.</p>

E. Opening and Evaluation of Bids

24.	27.1	<p>The Bid opening shall take place at:</p> <p>Bids will be opened at JPCL Conference Room, 1st Floor, Main Admin Building, Mohra Jabal, Dadu Road, Indus Highway TPS Jamshoro in the presence of bidders who choose to attend.</p> <p>Day: Tuesday Date: 22-04-2025 Time: 1200 Hrs.</p> <p><i>In case of any gazetted holiday, unforeseen reasons, unrest or force majeure, or gazetted holiday which may cause delay on the bid opening date, the bids shall be opened on the next working day at the same place and time.</i></p> <p><i>The opening date of the Financial Proposal will be communicated to the eligible and qualified bidders by the Procuring Agency later on.</i></p>
25.	33.2	<p>The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is: Pakistani Rupees</p> <p>The source of exchange rate shall be: NBP/SBP</p> <p>The date of exchange rate shall be: The date of Financial Bid Opening</p>
26.	33.3	<p>The bids shall be quoted in Pakistani Rupee abbreviated as PKR. Its symbol is Rs.</p>
27.	34	<p>Evaluation Techniques Least Cost Based Selection (LCBS)</p> <p><i>After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (drawings/ design/ technical specifications /requirements and/or requisite qualification threshold (60%), shall be evaluated for Technical Proposal and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid (The most Advantageous Bid)</i></p>
28.	34	<p>Specific criteria in case evaluating the bids submitted by J. Vs and consortium to be used in the evaluation and their evaluation method or reference to the Technical Specifications.</p> <p>Not Applicable</p>

29.	34	<i>In case of award to a single Bidder of multiple lots; the methodology of evaluation to determine the lowest evaluated Lot combinations, in the Form of Bid is "combined lot as a package" and bids will be evaluated on a package basis and partial bids for individual items will not be entertained as detailed in Section-V, "Evaluation".</i>
30.	35	Domestic preference not applicable.
31.	38.2	Sub-contracting (please insert percentage) of the total value of the contract. <i>The maximum percentage that can be subcontracted, ranges from 20% to 30%. Only non-critical or specialized tasks can be subcontracted to specific experienced sub-contractors for specialized works with prior approval of the client with condition that the main contractor retains full responsibility for the quality and timelines.</i> (Deleted/Not Applicable/Not Used)

F. Award of Contract

32.	48	The Performance Security (or guarantee) shall be an <i>amount up to 10 percent of the Contract Price</i>
33.	48	The Performance Security (or guarantee) shall be in the form of: <i>CDR /unconditional Bank Guarantee enforceable in Pakistan for entire contract period up to Defects Notice Period "DNP" /Defects Liability Period "DLP"</i>

G. Review of Procurement Decisions

34.	53.6	The Address of PPRA to submit a copy of appeal: Grievance Redressal Appellate Committee, Public Procurement Regulatory Authority 1 st Floor, G-5/2, Islamabad, Pakistan Tel: +92-51-9202254
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SECTION IV. ELIGIBLE COUNTRIES

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel

SECTION-V SCHEDULE OF REQUIREMENT

- 1. EVALUATION AND QUALIFICATION CRITERIA**
- 2. ELIGIBILITY OF BIDDERS**
- 3. QUALIFICATION REQUIREMENT**
- 4. SCOPE OF WORK**

Scope of Work includes Works Requirement, Technical Specifications, Drawings, Supplementary Information and Bill of Works

1. EVALUATION AND QUALIFICATION CRITERIA

[The Procuring Agency shall evaluate the bids in accordance with predefined evaluation and qualification criteria mentioned in this document. No other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in the Bidding Forms.]

*Wherever a Bidder is required to state a monetary amount, Bidders should indicate in the Pakistani currency. In case of foreign currency, the exchange rates shall be taken from State Bank/National Bank of Pakistan on financial bid opening day. Any error in determining the exchange rates in the Bid, may be corrected in accordance with **ITB 32** (Correction of Arithmetic Errors)*

Evaluation:

In addition to the criteria listed in **ITB 34.3**, the following criteria shall be applied for the evaluation of bids:

Assessment of adequacy of Technical Proposal with Requirements

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section-V "Works Requirements/Scope of work".

Award Criteria for Package:

Bidders are required to submit a proposal for the entire package. The evaluation of bids will be conducted for all lots within a package. A package typically refers to a grouping of related works, goods, or services that form a single cohesive unit for bidding and evaluation. Bids will be evaluated package-wise, for combined lots within a package. package is treated as a single entity during the evaluation process. The contract will be awarded to the Bidder offering the most advantageous bid to the Procuring Agency for combined package, subject to the selected Bidder meeting the required qualification criteria for combination of lots in a package. In Pakistan, under the Public Procurement Regulatory Authority (PPRA) Rules, a "combined lot as a package" evaluation process applies when procuring entities bundle multiple items or services into one package. The evaluation of such combined lots typically follows a well-defined process to ensure transparency, fairness, and compliance with PPRA regulations. Below is a detailed step-by-step guide: Evaluation criteria for the package state explicitly that bids will be evaluated on a package basis and partial bids for individual items will not be entertained.

Evaluation Process

(a) Technical Evaluation

Evaluate the technical compliance of bids against the criteria mentioned in the bidding document. This may include; Conformance to specifications for all items in the package. The evaluation will also include an assessment of the Bidder's capacity to meet the following aggregated requirements as presented in the bid:

- 1) Average annual turnover,
- 2) Financial resources,
- 3) Equipment to be allocated, and
- 4) Personnel to be fielded

Technical Expertise

- Demonstrated experience in the specialized area.
- Certifications, licenses, or qualifications relevant to the scope of work.
- Portfolio or references showcasing past projects of similar complexity and scale.

Reputation and References

- Positive reviews from past clients or contractors.

- Industry reputation for reliability, quality, and professionalism.
- Ability to provide strong references from recent projects.

Financial Stability

- Solid financial standing to ensure they can procure necessary materials and labor.
- History of completing projects without delays due to financial constraints.
- Adequate insurance coverage, including liability and worker's compensation.

Resources and Capacity

- Availability of skilled labor and specialized equipment.
- Adequate staffing to meet deadlines without compromising quality.
- Ability to scale up or adjust resources for project demands.

Project Management Capabilities

- Strong communication and coordination skills to integrate seamlessly with other project teams.
- Proven record of accomplishment of meeting deadlines and staying within budget.
- Use modern tools for scheduling, reporting, and documentation.

Cost and Value

- Competitive pricing aligned with market rates.
- Clear and transparent cost estimates.
- Focus on delivering value without compromising quality.

Flexibility and Problem-Solving

- Ability to adapt to changes in scope or unforeseen challenges.
- Creative problem-solving skills to handle technical or logistical issues.
- Responsiveness to feedback and willingness to collaborate.

Contractual and Legal Compliance

- Readiness to sign contracts with clear terms, including warranties and guarantees.
- Familiarity with dispute resolution and contract management procedures.
- Compliance with legal obligations like taxes and employee benefits.

Cultural Fit and Teamwork

- Compatibility with the project's ethos and team dynamics.
- Willingness to work collaboratively with general contractors and other subcontractors.
- Positive attitude and commitment to project goals.

Careful evaluation against these criteria can help hire a main contractor who is reliable, skilled, and capable of delivering quality results. The bids that fail to meet technical criteria for any item in the combined package will be rendered to be disqualified.

(b) Financial Evaluation

Evaluate only technically qualified bids.

Calculate the total package cost by summing up the prices of all items in the lot. The evaluation focuses on the combined total *cost rather than individual item costs*. Apply any discounts or adjustments offered by bidders for the combined lot. The package will be evaluated as a whole, and one bidder will be awarded the entire package.

Check compliance with PPRA Rule 38 (lowest evaluated cost).

Lowest Evaluated Bidder Selection

Award the contract to the bidder offering the lowest evaluated cost for the entire package, provided the bid meets all other requirements.

Post-Evaluation

Publish the bid evaluation report on the PPRA website as per Rule 35, providing transparency in the process. Ensure a proper grievance redressal mechanism is in place for complaints.

Contract Award

Issue the Letter of Acceptance to the successful bidder. Sign the contract and specify the delivery schedule for all items in the package.

2. ELIGIBILITY OF BIDDERS

The Procuring Agency shall utilize this criterion for Eligibility of the bidders.

[Bidder must be responsive in all categories described in the eligibility criteria. Noncompliance of any of the requirements mentioned in eligibility criteria will make the bid non-responsive.]

Sr. No	Parameters	Conformance Requirements for Verification
1.	<p>Nationality: <i>Pakistan national or from eligible country national having Registration/ Incorporation/ Business Certificate and number of business years in Pakistan with Complete Company profile.</i></p>	Forms T-2, with attachments of relevant Certificate of incorporation /registration
2.	<p>Conflict of Interest: <i>The Procuring Agency considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations. The Procuring Agency will take appropriate actions to manage such conflicts of interest, which may include rejecting a proposal for award if it determines that a conflict of interest has flawed the integrity of any procurement process. At the time of bidding, a Bidder may be in a conflict of interest with one or more parties in the bidding process if a Bidder participates in more than one bid in the bidding process. This will make the Bidder as non-responsive</i></p>	Forms T-1, Letter of Bid
3.	<p>Blacklisting: <i>Affidavit to the effect that not blacklisted and rendered ineligible for corrupt and Fraudulent practices by any Government (Federal, Provincial or Local) or a public sector organization/Division/Ministry.</i></p>	Form T-15 Declaration on notarized paper that the firm/ contractor is not blacklisted in any dept. /organization
4.	<p>Eligibility throughout the Contract Period. <i>The Bidder shall provide evidence of their continued eligibility and satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request. Also, an undertaking in accordance with Form –T-15 of these Bidding Documents</i></p>	Form T-15 Declaration on notarized paper that the firm/contractor
5.	<p>Bidder be a Taxpayer Possessing NTN Certificate/GST Certificate/SRB Certificate, On Active Taxpayers List of FBR.</p>	Attach Certificates / relevant documents
6.	<p>Only One Bid Submission by any Bidder: <i>A bidder shall submit only one bid in this bidding process, A bidder who submits or participates in more than one bid will cause all the Bids in which the bidder has participated to be ineligible.</i></p>	Form T-1 Letter of Bid
7.	<p>Non-conformance & Eligibility: <i>Any Bidder who is working with JPCL and has not completed the awarded work within specified period and the reasons of delay/non-completion are attributable to contractor(s), will not be eligible to participate in this tender.</i></p>	JPCL record of Tenders and award of works orders, will be referred to verify.
8.	<p>Pending Litigation: <i>All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than fifty (50) percent of the Bidder's net worth.</i></p>	Forms T-5
9.	<p>Un-conditional Bid <i>The Successful Bidder shall comply with all the terms and conditions of the bidding documents. The Bidder who submits the Conditional Bid will be declared as non-responsive.</i></p>	Forms T-1 Letter of Bid

3. QUALIFICATION REQUIREMENT

Credit Marks shall be awarded, based on the following qualifications: minimum requirements of 50% score in each category are mandatory. Cumulatively, securing 60% marks is a must for qualifying for Technical Evaluation. The bidders are required to attach evidence against each statement where necessary.

Sr. No.	Description Qualification Criteria	Submission Requirements for Verification	Max. Points / Marks	Evaluators' Assessment
1.0	General and Specific Experience			
1.1	Projects of similar nature and complexity completed over last 10 years (Mention any three, each carries 5 marks) Or Participation as Prime contractor, management contractor, or subcontractor, in at least two (2) contracts within the last three (3) years, each with a value of at least PKR 25Million that have been successfully or substantially completed and that are similar to the proposed works. <i>The similarity herein means and requires Boundary walls and/or Building works.</i>	Form T-11	15	
1.2	Projects of similar nature and complexity in hand (Currently) <i>The similarity herein means and requires Boundary walls and/or Building works.</i>	Attach evidence with Form T-124	10	
1.3	Experience of Works related to civil projects over last ten years (Mention any five each carries one (1) mark) or Experience under construction contracts in the role of contractor, subcontractor, or management contractor for, at least the last five years prior to the applications submission deadline. At least brick works not less than 850 m ³ and R.C.C. works not less than 370 m ³	Form T-11	5	
1.4	History of Non-performance of a contract did not occur because of contractor default since last three years.	Form T-5	5	
Sub-total			35	
2.0	Personnel Capabilities			
2.1	Graduate Civil Engineer(s) Registered with PEC and employed with the Firm. Total Experience of Engineer(s) in number of years	Form T-3 Form T-4		
2.1.1	5 + Years Experience		9	
2.1.2	3 - 5 Years Experience	Attach CVs. & Enroll	6	
2.1.3	2 Years Experience		3	
2.1.4	Less than 2 Years Experience		Nil	
2.2	Number of Diploma Civil Engineer(s) in Employment of the Firm Total Experience of Engineers in number of Years	Form T-3 Form T-42		

2.2.1	5 + Years Experience	Attach CVs. & Enroll	6	
2.2.2	3 - 5 Years Experience		4	
2.2.3	2 Years Experience		2	
2.2.4	Less than 2 Years Experience		Nil	
Sub-total			15	
3.0	Machinery/Equipment Capabilities			
3.1	Surveying & Measurement Tools			
3.1.1	Total Station	Form of Equipment detail (given in Annexure of Form T-1of Technical Proposal	3	
3.1.2	Laser Level/Plumb Bob			
3.1.3	Measuring Tape			
3.2	Material Handling Equipment			
3.2.1	Concrete Mixer Machine		6	
3.2.2	Mortar Mixer Machine			
3.2.3	Wheelbarrows/Trolleys			
3.3	Cutting and Shaping Tool			
3.3.1	Masonry Saw		3	
3.3.2	Angle Grinder			
3.3.3	Chisels/Hammers			
3.4	Compaction and Finishing Equipment			
3.4.1	Plate Compactor/Vibrator		8	
3.4.2	Excavator for digging, trenching, and removing earth or debris.			
3.4.3	Tipper Truck (Dumper) Transports materials like soil, gravel or debris to and from the construction site			
3.4.4	Water Tanker Sprays water for soil compaction, dust control, or curing brick and concrete.			
Sub-total			20	
4.0	Financial Position	Form T-6: Financial Resources		
4.1	Available Bank Credit Line or Bank/ cash balance as per Audited Financial Statement			
4.1.1	20.0Million and above		5	
4.1.2	10.0 to <20.0Million		3	
4.1.3	5.0 to <10.0Million		2	
4.1.4	Less than 5.0Million	Nil		
4.2	Working Capital; Total Current Asset (-) Total Current Liabilities Bidder has adequate sources of finance to meet the cash flow requirements for works currently in progress and for future contract commitments. Audited balance sheets and income statements, to demonstrate the current soundness of Bidder's financial position. .	Form T-6 with attachments of audited balance sheets/ other financial statements for the last three (3) years to demonstrate the current financial soundness		
4.2.1	50.0Million and above		10	
4.2.2	30 to <50.0Million		6	
4.2.3	20.0 to <30.0Million		4	
4.2.4	Less than 20.0Million		Nil	
4.3	Average Annual Construction Turnover Calculated as total certified payments	Form T-6 & T-7		

	received for construction contracts in progress or completed, within best three years out of last ten fiscal years		
4.3.1	150.0Million and above		15
4.3.2	100 to <150Million		9
4.3.3	50.0Million to <100.0Million		6
4.3.4	Less than 50Million		Nil
Sub-total			30

In order to substantiate the above qualification, the bidders must submit requisite information /certificates from clients (end-user certificates) for all number of projects specified above. A failure or omission of submitting the certificates at the first instance, shall be considered a minor, non-material omission and shall be subject to clarification. The bidder must submit the necessary documents within the stipulated time.

LEGAL REQUIREMENTS

Legal Requirements	
On Active Taxpayers List of FBR and SRB	Mandatory
Sales Tax Registration Certificate FBR and SRB	Mandatory
NTN and STN Registration Certificate	Mandatory
Firm is not Blacklisted	Mandatory
Bid Validity as per BDS i.e. 60 days	Mandatory
Bid security CDR (Original), Pay Order/ unconditional Bank Guarantee enforceable in Pakistan to be placed in Technical Proposal.	Mandatory
NOTE: Any firm which is not able to furnish mandatory document will be considered disqualified	
Total Technical Marks	100
Overall Qualification Marks	60

4. SCOPE OF WORKS

The Procuring Agency as defined in the Bidding Data (**Jamshoro Power Company Limited Jamshoro**) wishes to receive Bids for the Works summarized in the Bidding Data *“Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document”*

The bidder shall closely study specifications in detail and scope of work, which govern the rates for which he is quoting. The Bidders shall offer for the whole Works based on the “Bill of Quantities”. Based on the priced bill of quantities submitted by the bidder, the Employer will award the whole of the work to the lowest substantial responsive bidder. Any Bid covering partial scope of work will not be considered and rejected as non-responsive.

All duties, taxes, GST & Stamp duty 0.35% of contract price, shall be payable by the bidder/Contractor under the Contract.

All investments, operating expenses, incidentals, insurance, overheads, carriages, tools and plants, etc. as may be required upon execution and completion of works, shall also be included in the rates, prices and total bid price submitted by the bidder.

However, such duties, taxes, levies etc. which are notified after the last date of submission of Bid and/or any increase over the rate existing on the last date of submission of Bid, shall be reimbursed by the company on production of documentary evidence in support of payment, actually made to the concerned authorities.

Similarly, if there is any decrease in such duties, taxes and levies, the same shall become recoverable from the contractor. The details of such duties, taxes and other levies, along with rates, shall be declared by the bidder.

4.1 TECHNICAL SPECIFICATIONS

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for bidders to respond realistically and competitively to the requirements of the Procuring Agency without qualifying their bids. The specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship and materials for the work to be procured. Only if this is done, will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation facilitated.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the work and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in the procurement of work, although not necessarily to be used in a particular procurement. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether the national standards of the Procuring Agency's country or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the works and materials to be executed or tested, the provisions of the latest current edition or revision of the relevant shall apply, unless otherwise expressly stated in the Contract.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Agency with the bidding documents. Similarly, the Contractor may be requested to provide drawings with its bid or for prior review by the Procuring Agency during contract execution.

4.1.1 WORK REQUIREMENT/BILL OF WORKS

Contract No. TNCB-16/CIVIL/CFPP/JPCL/2024-25

Name of Work	“Reconstruction of existing Boundary Wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, Section-V of this Tender Document”.
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4.1.1. Details of Work/Bill of Work (BoW):

S. No.	Description	Unit	Quantity	Rate	Amount
1	Excavation in Foundation of building, bridges and other structures including dibbling dressing, refilling around structures with excavated earth, water and ramming lead up to 30 m and lift up to 1.5 m in ordinary Soil WS- 2022 P/2-5 I-22(b)	Cu m	56.03	402.87	22,571
2	Dismantling brick work in cement mortar WS-2022 P/3-1 I-9	Cu m	531.42	1569.30	833,955
3	Dismantling cement concrete plain 1:4:8 WS-2022 P/3-2 I-14 (a)	Cu m	35.49	2030.36	72,062
4	Dismantling cement concrete plain 1:2:4 WS-2022 P/3-2 I-14 (c)	Cu m	50.78	4061.77	206,239
5	Dismantling rolled beams, Iron Grill or iron rail etc WS-2022 P/3-4 I-33	Kg	1145.50	8.40	9,622
6	Dismantling all type of wire fencing including rolling wires into bundles and collection materials. WS-2022 P/3-4 I-35	m	1880.00	30.47	57,284
7	Carriage of 3.0 cum or 5 Metric Tons of all material like earth, silt, sand, stone, lime, surkhi, steel, girders, M.S. Sheets, M.S. Bars etc or 4.25 cum of timber or 3.75 metric tons of fuel, wood by truck or any other measure up to 2nd Km. WS-2022/P1-1 I-1(vi)	cu m	617.69	241.66	149,375
8	Cement concrete plain including placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ration 1:4:8 WS-2022/P/5-1 I-2(d)	Cu m	28.71	8665.60	248,807
9	Brick Work in foundation and plinth in cement sand mortar Ratio 1:4 WS-2022/P/6-1 I-1-3	Cu m	116.21	11507.99	1,337,381
10	Filling watering and ramming earth under floors with surplus earth from foundation WS-2022/P/2-5 I-25	Cu m	1033.38	194.61	201,106
11	Brick Work Other than building including striking of Joints up to 3 m height in cement sand mortar Ratio 1:4 WS-2022/P/6-1 I-4(c)	Cu m	242.45	11970.81	2,902,275
12	Extra Labour for profile and flared walls WS-2022 P/6-2 I-10	Cu m	242.45	981.69	238,007
13	Cutting Holes 100x150 mm in stone or brick or concrete wall with chisel repairing masonry and removing debris within 30m lead WS-2022/P-2022 I-170	Per Hole	173.00	556.20	96,223
14	Cement concrete plain including placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ration 1:2:4 WS-2022/P/5-1 I-2(b)	Cu m	7.29	11363.05	82,878
15	Erection and removal of centering for R.C.C. or plain cement concrete work (ii) vertical WS-2022/ P/5-5 I-21	Sq m	311.80	1001.34	312,216
16	M.S. Deformed Bars 60 Grade (Tensile Strength 420 MPa) WS-2022 P/22-10 I-369	M.Ton	1.394	181,100	252,418

17	Reinforced Cement concrete work using coarse sand except the cost of steel reinforcement and its labour for bending and binding. This rate also includes all kind of forms, moulds, lifting shuttering, curing, rendering and finishing the exposed surface (including screening and washing of shingle) Ration 1:2:4 WS-2022/P/5-2 I-3(i)	Cu m	23.28	23643.87	550,323
18	Cement Plaster 1:4 upto 1st Floor Height 20mm WS-2022 P/10-1 I-5(c)	Sq m	3182.81	500.67	1,593,537
19	Providing and fixing G.I 1.5m length 50x50x6 mm angle iron post for barbed wire fencing around switch yard duly fixed in position (Dwg No. PD-W/TB-126) WS-2022 P/20-6 I-58	Each	173.00	2845.01	492,187
20	Providing and fixing 4 rows barbed wire fencing around switch yard G.I. barbed wire 14 SWG 2 Ply 4 Points fixed on G.I. angle iron 50x50x6 mm post excluding cost of angle iron post WS-2022 P/20-9 I-81	R.m	470.00	397.81	186,971
21	Weather shield paint three coats on new cement plaster surface WS-2022 P/10-3 I-24	Sq m	3176.79	357.87	1,136,877
22	Painting new surface (d) preparing surface and painting of guard bars, gates of iron bars, gratings railing i/c standards braces (etc) and similar open work WS-2022/P-12-3 1-5(d) i+ii	Sq m	132.42	263.05	34,834
23	Jungle Clearance and removing with 30 m WS-2022 P/-20-1 I-1-3				-
	(a) Light	100 sqm	423.00	170.2	720
	(b) Thick	100 sqm	987.00	396.08	3,909
	Total Amount as per WAPDA Schedule Rate 2022				11,021,775
	Add Market Rate Item				
24	Iron Sheet for Safety Purpose (Rate analysis mentioned below)	Complete Job	1	2,201,053.0	2,201,053
	Total Amount				13,222,828
	Add 15% SRB				1,983,424
	Grand Total Amount				15,206,253

4.1.2. Rate Analysis

Item. No	Description	Nos	Length	Width	Height	Qty
1	Excavation in Foundation of building, bridges and other structures including dibbling dressing, refilling around structures with excavated earth, water and ramming lead upto 30 m and lift upto 1.5 m in ordinary Soil WS-2022 P/2-5 I-22(b)					
	Boundary Wall	1.00	470.00	0.75	0.15	52.88
	Material Gate Column	2.00	1.50	1.50	0.70	3.15
	Total Cum					56.03
2	Dismantling brick work in cement mortar WS-2022 P/3-1 I-9					
	Exsiting Boundary Wall	1.00	470.00	0.225	3.66	386.77
	Existing Columns	458.00	0.08	0.080	3.66	10.73
	Existing Brick Foundation	1.00	470.00	0.45	0.60	126.90
	Existing Materail Gate Column	2.00	1.10	1.10	2.90	7.02

						Total Cum	531.42
3	Dismantling cement concrete plain 1:4:8 WS-2022 P/3-2 I-14 (a)						
	Existing Foundation	1.00	470.00	0.75	0.10		35.25
	Materail Gate Column Foundation	2.00	1.10	1.10	0.10		0.24
	Total Cum						35.49
4	Dismantling cement concrete plain 1:2:4 WS-2022 P/3-2 I-14 (c)						
	Existing Boundary Wall Couping	1.00	470.00	0.23	0.08		7.93
	Existing Foundation DPC	1.00	470.00	0.60	0.15		42.30
	Existing Materail Gate Column Top Portion Couping	2.00	1.10	1.10	0.08		0.18
	Existing Materail Gate Column DPC Portion	2.00	1.10	1.10	0.15		0.36
Total Cum						50.78	
5	Dismantling rolled beams, Iron Grill or iron rail etc WS-2022 P/3-4 I-33						
	Exsitng Boundary wall Column	158.00	7.25				1145.50
Total Kg							1145.50
6	Dismantling all type of wire fencing including rolling wires into bundles and collection materials. WS-2022 P/3 4 I-35						
	Exisitng Boundary Wall	4.00	470.00				1880.00
Total m							1880.00
7	Carraige of 3.0 cum or 5 Metric Tons of all material like earth, silt, sand, stone, lime, surkhi, steel, grids, M.S. Sheets, M.S. Bars etc or 4.25 cum of timber or 3.75 metric tons of fuel, wood by truck or any other measure upto 2nd Km. WS-2022/P1-1 I-1(vi)						
	Same quantity as per Item S. No. 2						531.42
	Same quantity as per Item S. No. 3						35.49
	Same quantity as per Item S. No. 4						50.78
	Total cu m						617.69
8	Cement concrete plain including placing compacting finishing and curing complete i/c screening and washing of stone aggregate with out shuttering Ration 1:4:8 WS-2022/P/5-1 I-2(d)						
	PCC 1:4:8 Boundary Wall	1.00	470.00	0.60	0.10		28.20
	PCC 1:4:8 (2 No. Materail Gate Columns)	2.00	1.60	1.60	0.10		0.51
Total Cum							28.71
	Brick Work in foundation and plinth in cement sand mortar Ratio 1:4 WS-2022/P/6-1 I-1-3						
	Foundation masnary (0-0.3 m)	1.00	470.00	0.48	0.30		66.98
	Foundation masnary (0.3-0.6 m)	1.00	470.00	0.33	0.30		45.83

9	Foundation Masnary (0-0.3 m) (Material Gate)	2.00	1.45	1.45	0.45	1.89
	Foundation masnary (0.3-0.6 m) (Material Gate)	2.00	1.30	1.30	0.45	1.52
Total Cum						116.21
10	Filling watering and ramming earth under floors with surplus earth from foundation WS-2022/P/2-5 I-25					
	DPC Boundary Wall	2.00	470.00	1.37	0.80	1031.39
	DPC Materail Gate	8.00	0.48	0.48	1.10	1.99
	Total Cum					
11	Brick Work Other than building including striking of Joints upto 3 m height in cement sand mortar Ratio 1:4 WS-2022/P/6-1I-4(c)					
	Boundary Wall	1.00	422.60	0.15	3.00	190.17
	Boundary Wall Columns	173.00	0.30	0.30	3.00	46.71
	Material Gate Columns	2.00	1.10	1.10	2.30	5.57
	Total Cum					
12	Extra Labour for profile and flared walls WS-2022 P/6-2 I-10					
	Same quantity of Item No. 12					242.45
	Total Cum					
13	Cutting Holes 100x150 mm in stone or brick or concrete wall with chisel repairing masonry and removing debris within 30m lead WS-2022/P-2022 I-170					
	Total No. of Boundary Wall Column	1.00	173.00			173.00
	Total Per Hole					
14	Cement concrete plain including placing compacting finishing and curing complete i/c screening and washing of stone aggregate with out shuttering Ration 1:2:4 WS-2022/P/5-1I-2(b)					
	Boundary Wall	1.00	470.00	0.15	0.08	5.29
	Boundary Wall Columns	173.00	0.38	0.38	0.08	1.82
	Material Gate Columns	2.00	1.10	1.10	0.08	0.18
	Total Cum					
15	Erection and removal of centering for R.C.C. or plain cement concrete work (ii) vertical WS-2022/ P/5-5 I-21					
	PCC 1:4:8 Boundary Wall	2.00	470.00		0.10	94.00
	PCC 1:4:8 Boundary Wall Stopper	2.00	0.60		0.10	0.12
	RCC 1:2:4 Dpc Boundary Wall	2.00	470.00		0.15	141.00
	RCC 1:2:4 Stopper Dpc Boundary Wall	2.00	0.33		0.15	0.10
	PCC 1:2:4 Couping Boundary Wall	2.00	422.60		0.08	63.39
	PCC 1:2:4 Couping Boundary Wall Stopper	2.00	0.50		0.08	0.08
	RCC 1:2:4 Couping Boundary Wall Column	346.00	0.30		0.08	8.30
	RCC 1:2:4 Couping Stopper Boundary Wall Column	692.00	0.08		0.08	4.15

						Total Rm	470.00
21	Weather shield paint three coats on new cement plaster surface WS-2022 P/10-3 I-24						
	Boundary Wall Sides	2.00	422.60			3.08	2598.99
	Boundary Wall Top	1.00	422.60			0.15	63.39
	Boundary Wall Columns Sides	346.00	0.45			3.08	478.78
	Boundary Wall Columns Sides	171.00	0.30			0.30	15.39
	Material Gate Columns	8.00	1.10			2.30	20.24
	Total Sqm						3176.79
22	Painting new surface (d) preparing surface and painting of guard bars, gates of iron bars, gratings railing i/c standards braces (etc) and similar open work WS-2022/ P-12-3 1-5(d) i+ii						
	Angle Iron	173.00	1.50			0.20	51.90
	Materai Gate	2.00	7.30			2.26	33.00
	Railway Gate	2.00	9.14			2.60	47.53
Total Sqm						132.42	
23	Jungle Clearance and removing with 30 m WS-2022 P/- 20-1 I-1-3						
	(a) Light	2.00	470.00	1.50			1410.00
	Assume 30% Light Qty						423.00
	Total 100 Sqm						423.00
	(b) Thick	2.00	470.00	1.50			1410.00
	Assume 70% Light Qty						987.00
	Total 100 Sqm						987.00
24	Iron Sheet for Safety Purpose						
	Rate Analysis given Below						2,201,053
						Total for Complete Job	2,201,053

Rate Analysis Item No 24

Fixing of Iron sheets for safety purpose at JPCL Boundary Wall

(The required material will be purchased with the approval of Employer and shall remain the property of the Employer and the same will be inspected by Employer and at conclusion of project, the material shall be dismantled with due care and handed over to Employer)

Description		Unit
Area/ Sheets Required Detail		
Total Length = A	470	m
Total Height = B	3.657	m
Total Area = (A x B) = C	1718.79	sq m

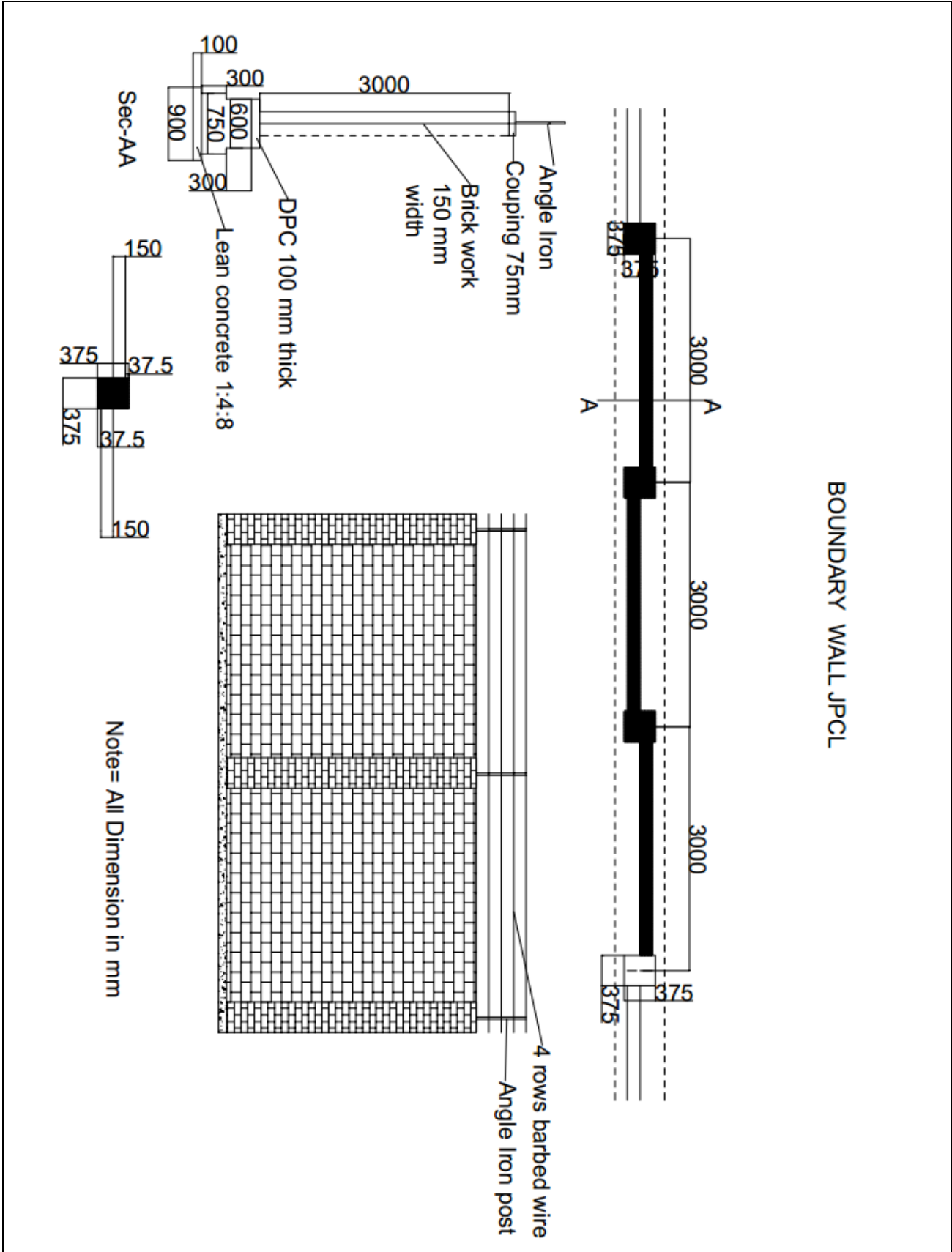
Assume 1/3 Area Will be provided = D	572.93	sq m
Sheet Size 3.657x3 = E	10.971	sq m
No. of sheets Reqd (D / E) = F	52.22	No.
Say	52	No.
Sheet Size 3.657*3 = E	10.971	sq m
Total Area Required = D	572.93	sq m
Rate of Sheet per Sq m = G	1545	Rs.
Total Amount of Iron sheet = (D X G) = H	885,177	Rs.
Sub Total - (I)	885,177	Rs.
Material for Fixing Sheets (Nut Bolt)		
Nut Bolts for Each Sheet = A	6	No.
No of Sheet = B	52	No.
Total Nut Bolts = (A x B) = C	312	No.
Rate for each Nut Bolt = D	200	No.
Total Amount of Nut Bolt = (C x D) = E	62,400	Rs.
Sub Total - (II)	62,400	Rs.
Iron Plate for Jointing Nut Bols		
No. of Pieces of Steel Patti = A	2	No.
No. of Sheet = B	52	No.
Total Iron Pieces reqd = (A X B) = C	104	No.
Rate per Piece = D	400	Rs
Total Amount for Iron Patti = (C x D) = E	41,600	Rs
Sub Total - (III)	41,600	Rs.
Scaffolding Pipe for Supporting of Sheet		
Scaffolding Pipes for sheet = A	1	No.
Length of Each Pipe = B	9.753	m
Total No. of Sheets Required = C	52	No.
Total Length of Pipes = (A x B x C) = D	507.156	m
Rate of Pipe per Meter = E	1,450	Rs.

Total Amount of Scaffolding Pipe = $(D \times E) = F$	735,376	Rs.
Sub Total - (IV)	735,376	Rs.
Joints for Scaffolding Pipe		
Scaffolding Pipes per Sheet = A	3	No.
Total No. of Sheets Required = B	52	No.
Total No. of Joints Required = $(A \times B) = C$	156	No.
Rate per Joint = D	700	Rs.
Total Amount = $(C \times D) = E$	109,200	Rs.
Sub Total - (V)	109,200	Rs.
Labour Charges for Fixing		
Excavation 0.3 m in the earth & Backfilling		
Rate per Meter = A	350	Rs
Total Length = B	156.67	m
Total Amount = $(A \times B) = C$	54,833	Rs
Sub Total - (VI)	54,833	Rs.
Fixing, Jointing and supporting of Sheet		
Rate per Sheet = A	700	Rs.
No. of Sheets = B	52	No
Total Amount = $(A \times B) = C$	36,400	Rs.
Sub Total - (VII)	36,400	Rs.
Dismantling Sheets		
Rate per Sheet = A	600	Rs.
No. of Sheets = B	52	No
Total Amount = $(A \times B) = C$	31,200	Rs.
Sub Total - (VIII)	31,200	Rs.
SUMMARY OF EXPENDITURE		
Iron sheet (Sub Total - I)	885,177	Rs.
Nut Bolts (Sub Total - II)	62,400	Rs.
Iron Piece (Sub Total - III)	41,600	Rs.

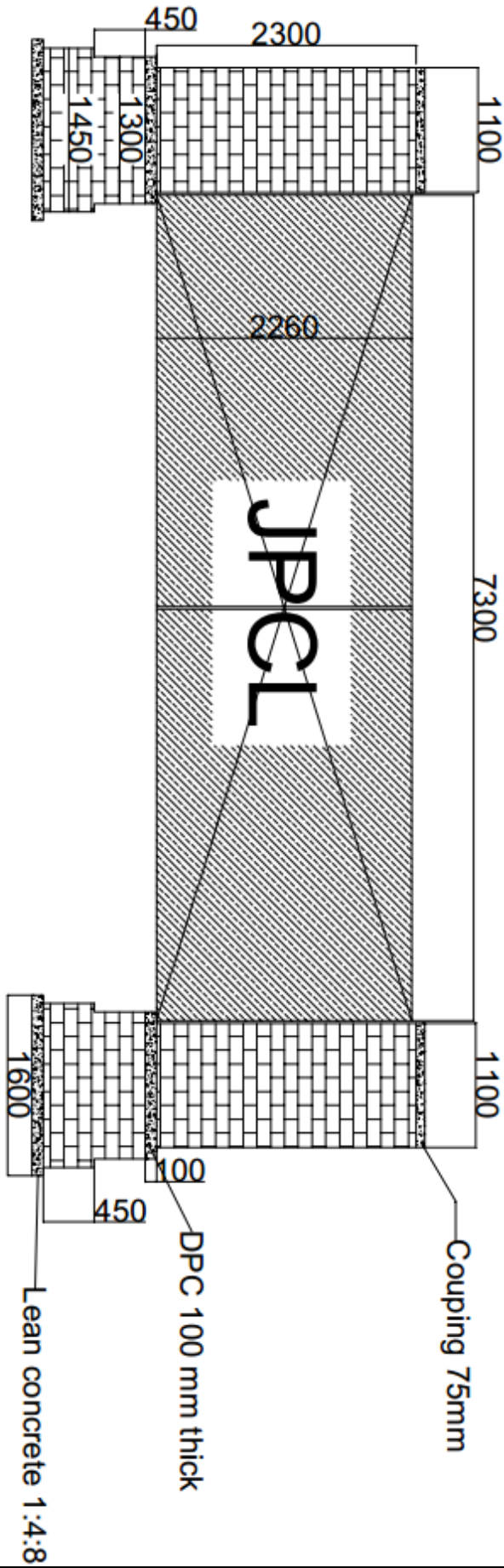
Folding Pipe (Sub Total - IV)	735,376	Rs.
Joints for Scaffolding Pipes (Sub Total - V)	109,200	Rs.
Excavation (Sub Total - VI)	54,833	Rs.
Fixing Labour Charges (Sub Total - VII)	36,400	Rs.
Dismantling Labour Charges (Sub Total - VIII)	31,200	Rs.
Total Amount for 1/3 Portion	1,956,186	Rs.
Add amount for remaining portion 2/3 Portion (Only Fixing & Dismantling) = (VI+VII+VIII)*2	244,867	Rs.
Total Amount for Complete Job	2,201,053	Rs.

4.1.3. DRAWINGS

(Insert reference to the drawing of the Construction works to be carried out under this contract)



MATERIAL GATE



Note= All Dimension in mm

4.2 Technical Proposal

(To be filled by the contractor / bidder and must be attached with Form T-1 as Annexure including all following information/ detail)

- A. Site Organization**
- B. Method Statement**
- C. Mobilization Schedule**
- D. Construction Schedule**
- E. Form of Equipment detail**
- F. Supplementary Information**

A. Site Organization

Organization chart indicating head office & field office personnel involved in management, supervision and engineering of the Works to be done under the Contract.

B. Method Statement/ Method of Performing Works

The bidder is required to submit a narrative outlining the method of performing the Works. 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 Works, including the number of shifts per day and hours per shift, he expects to work.
- A list of all major items of constructional and erection plant, tools and vehicles proposed to be used in delivering / carrying out the Works at Site
- The procedure for installation of equipment and transportation of equipment and materials to the site.

C. Mobilization Schedule

The Contractor shall mobilize to Site immediate after issuance of notice to commence "NTC" but not later than three (3) days.

D. Construction Schedule /Proposed Program of Works

The Bidder shall provide a work program in the form of a Bar chart Achievable milestone with timelines must be fixed to monitor and measure progress of work. Each work activity must be loaded with resources in terms of workforce, cash flow required, material flow etc. The program should indicate all the activities to be completed under the Contract like:

- a. Designing of the work where required
- b. Schedule of submittal of drawings
- c. Ordering and procurement of materials
- d. Manufacturing of parts where required
- e. Delivering at site of work Tools, Plants, and Materials etc.
- f. Construction of civil works
- g. Erection of works
- h. Lab Testing of Works/material from reputed lab

4.2.1. Form of Equipment Details

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section V, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by 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 <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

Omit the following information regarding 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	

4.2.2. Supplementary Information

(Insert any other supplement information related to the procurement of works)

The contractors are persuaded to take care of item rates while quoting the rates. These are WAPDA schedule rates notified in 2022. The item rates may be quoted below or above, but the cost will be considered aggregate of all items.

SECTION VI: STANDARD BIDDING FORMS

(Single Stage Two Envelope Procedure)

Table of Forms

SN	Form No.	Description	Proposal Part
Forms T1 to T-16 are to be enclosed with Technical Proposal			
20.	Form T-1	Letter of Bid –along with Annexure of Technical Proposal	Technical Proposal
21.	Form T-2	Bidder Information Form	Technical Proposal
22.	Form T-3	Contractor’s Representative and Key Personnel Schedule	Technical Proposal
23.	Form T-4	Resume and Declaration of Contractor’s Representative and Key Personnel	Technical Proposal
24.	Form T-5	Historical Contract Non-Performance, Pending Litigation and Litigation History	Technical Proposal
25.	Form T-6	Financial Situation and Performance	Technical Proposal
26.	Form T-7	Average Annual Turnover	Technical Proposal
27.	Form T-8	Financial Resources	Technical Proposal
28.	Form T-9	Current Contract Commitments / Works in Progress	Technical Proposal
29.	Form T-10	Self-Assessment Tool for Bidder’s Compliance to Financial Resources	Technical Proposal
30.	Form T-11	General Construction Experience	Technical Proposal
31.	Form T-12	Specific Construction and Contract Management Experience	Technical Proposal
32.	Form T-13	Construction Experience in Key categories	Technical Proposal
33.	Form T-14	Form of Bid Security (no need in case of Pay order /CDR	Technical Proposal
34.	Form T-15	Affidavit for Bidder’s Blacklisting / Eligibility Status	Technical Proposal
35.	Form T-16	Power of Attorney	Technical Proposal
Forms F1 & F2 to be enclosed with Financial Proposal			
36.	Form F1	Letter of Bid – Financial Proposal	Financial Proposal
37.	Form F2	Bill of Quantities Please Fill in all Five (05) Bill of Quantities and Grand Summary and should be attach in Financial Proposal	Financial Proposal

FORM T-1. Letter of Bid – Technical Proposal

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid in the first envelope "TECHNICAL PROPOSAL".

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text in black font is to help Bidders in preparing this form and Bidders shall delete it from the final document.

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: TNCB-16/CIVIL/CFPP/JPCL/2024-25

Title of Procurement: *"Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document"*

To: Jamshoro Power Company Limited (JPCL), Jamshoro

We, the undersigned Bidder, hereby submit the first part of our Bid, the Technical Proposal

In submitting our Bid, we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda issued in accordance with Instructions to Bidders (ITB 9);
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3;
- (c) **Bid/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the Procuring Agency based on execution of a Bid Securing Declaration or Bid Securing Declaration in the Procuring Agency's country in accordance with ITB 3;

Conformity: We offer to execute works, in conformity with the bidding document and in accordance with the works requirements: *"Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document"*

- (d) **Bid Validity Period:** Our Bid shall be valid for the period specified in **BDS 18.1** (as amended, if applicable) from the date fixed for the Bid submission deadline specified in **BDS 24.1** (as amended, if applicable), and it shall remain binding upon us, and may be accepted at any time before the expiration of that period;
- (e) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
- (f) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with **ITB 20**;
- (g) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a

temporary suspension or a debarment imposed by the Procuring Agency. Further, we are not ineligible under Pakistan laws;

- (h) **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution];*
- (i) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (j) **Not Bound to Accept:** We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and
- (k) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

Name of the Bidder: **[insert complete name of Bidder]*

Country of Origin of the Bidder: *[insert country of origin, in case of JV country of origin of lead member]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: *** [insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month], [insert year]*

****:** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Annexure of Form T-1 (Technical Proposal)

These Annexures must be attached with technical proposal by providing all the requisite information as per details mentioned in "Scope of Work" of Section V- Schedule of requirement under the following titles

- A. Site Organization**
- B. Method Statement**
- C. Mobilization Schedule**
- D. Construction Schedule**
- E. Form of Equipment Detail**
- F. Supplementary Information**

FORM T-2. Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: TNCB-16/CIVIL/CFPP/JPCL/2024-25

Title of Procurement: *"Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document"*

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member: <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. <input type="checkbox"/> Establishing that the Bidder is not under the supervision of the Procuring Agency in case of subsidiaries]
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

FORM T-3. Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using this Form below for each candidate.

Contractor's Representative and Key Personnel:

1.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
3.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
5.	Title of position:	
	Name of candidate:	

	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
6.	Title of position: <i>[insert title]</i>	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

FORM T-4. Resume and Declaration of Contractor's Representative and Key Personnel

Name of Bidder

Position [1]: [title of position from Form PER-1]											
Personnel information	<table border="1"> <tr> <td>Name:</td> <td>Date of birth:</td> </tr> <tr> <td>Address:</td> <td>E-mail:</td> </tr> <tr> <td colspan="2">Professional qualifications:</td> </tr> <tr> <td colspan="2">Academic qualifications:</td> </tr> <tr> <td colspan="2">Language proficiency: [language and levels of speaking, reading and writing skills]</td> </tr> </table>	Name:	Date of birth:	Address:	E-mail:	Professional qualifications:		Academic qualifications:		Language proficiency: [language and levels of speaking, reading and writing skills]	
Name:	Date of birth:										
Address:	E-mail:										
Professional qualifications:											
Academic qualifications:											
Language proficiency: [language and levels of speaking, reading and writing skills]											
details	<table border="1"> <tr> <td colspan="2">Address of Procuring Agency:</td> </tr> <tr> <td>Telephone:</td> <td>Contact (manager / personnel officer):</td> </tr> <tr> <td>Fax:</td> <td></td> </tr> <tr> <td>Job title:</td> <td>Years with present Procuring Agency:</td> </tr> </table>	Address of Procuring Agency:		Telephone:	Contact (manager / personnel officer):	Fax:		Job title:	Years with present Procuring Agency:		
Address of Procuring Agency:											
Telephone:	Contact (manager / personnel officer):										
Fax:											
Job title:	Years with present Procuring Agency:										

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
<i>[main project details]</i>	<i>[role and responsibilities on the project]</i>	<i>[time in role]</i>	<i>[describe the experience relevant to this position]</i>

Declaration

I, the undersigned [insert either "Contractor's Representative" or "Key Personnel" as applicable], certify that, to the best of my knowledge and belief, the information contained in this Form T-4 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified on the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	Details
Commitment to duration of contract:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Bid evaluation.
- (b) result in my disqualification from participating in the Bid.
- (c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel: *[insert name]*

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day: month: year): _____

FORM T-5. Historical Contract Non-Performance, Pending Litigation and Litigation History

Bidder's Name: _____

Date: _____

JV Member Name _____

ICB/NCB No. and title: _____

Page _____ of _____ pages

Non-Performed Contracts in accordance with Qualification Criteria			
<input type="checkbox"/> Contract non-performance did not occur January 2022 <input type="checkbox"/> Contract(s) not performed since 2022			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and PKR equivalent)
		Contract Identification: Name of Procuring Agency (PA): Address of PA: Reason(s) for nonperformance:	
Pending Litigation, in accordance with Qualification Criteria			
<input type="checkbox"/> No pending litigation <input type="checkbox"/> Pending litigation			
Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount
		Contract Identification: _____ Name of PA: _____ Address of PA: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
Litigation History in accordance with Section III, Evaluation and Qualification Criteria of the Prequalification document			
<input type="checkbox"/> No Litigation History <input type="checkbox"/> Litigation History			
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), PKR Equivalent (exchange rate)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: <i>[indicate complete contract name, number, and any other identification]</i> Name of PA: <i>[insert full name]</i> Address of PA: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i>	<i>[insert amount]</i>

		Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Contractor"]</i> Reason(s) for Litigation and award decision <i>[indicate main reason(s)]</i>	
--	--	---	--

FORM T-6. Financial Situation and Performance

Bidder's Name: _____

Date: _____

JV Member's Name _____

ICB No. and title: _____

Page _____ of _____ pages

1. Financial data

Type of Financial information in (currency)	Historic information for last three (3) years, _____				
	(amount in currency, currency, exchange rate*, PKR equivalent)				
	Year 1	Year 2	Year 3	Year4	Year 5
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

*Refer to ITB 16 for the exchange rate

2. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	Amount (PKR)
1		
2		

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for the last three (3) years pursuant to Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder and not an affiliated entity (such as parent company or group member).
- (b) be independently audited or certified in accordance with local legislation.
- (c) be complete, including all notes to the financial statements.
- (d) Correspond to accounting periods already completed and audited.

Attached are copies of financial statements for the last three (3) years required above; and complying with the requirements

FORM T-7. Average Annual Turnover

Bidder's Name: _____

Date: _____

JV Member's Name _____

ICB/NCB No. and title: _____

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		Annual turnover data	
Year	Amount Currency	Exchange rate	PKR equivalent
<i>[indicate year]</i>	<i>[insert amount and indicate currency]</i>		
Average Annual Turnover *			

* See Section V, Evaluation and Qualification Criteria.

FORM T-8. Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Section (Evaluation and Qualification Criteria)

Financial Resources		
No.	Source of financing	Amount
1		
2		
3		

FORM T-9. Current Contract Commitments / Works in Progress

Bidders should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	Name of Contract	Procuring Agency's Contact Address, Tel, Fax	Value of Outstanding Work [PKR Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [PKR/month]
1					
2					
3					
4					
5					

FORM T-10. Self-Assessment Tool for Bidder’s Compliance with Financial Resources

This form requires the same information submitted in Forms 6 and 9. All conditions of “Available Financial Resources Net of CCC \geq Requirement for the Subject Contract” must be satisfied to qualify.

For Single Entities: (A)	Total Available Financial Resources from Form T-6	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from Form T-9	Available Financial Resources Net of CCC $D = (B - C)$	Requirement for the Subject Contract (E)	Results: Yes or No [<i>D must be greater than or equal to E</i>] (F)
_____ (Name of Bidder)					

This Form is made available for use by the bidder as a self-assessment tool, and by the employer as an evaluation work sheet, to determine compliance with the financial resources requirement as stated earlier. Failure to submit this Form by the Bidder shall not lead to bid rejection.

FORM T-11. General Construction Experience

Bidder's Name: _____

Date: _____

JV Member's Name _____

ICB/NCB No. and title: _____

Page _____ of _____ pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of PA: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of PA: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of PA: _____ Address: _____	

Specific Construction and Contract Management Experience

Bidder's Name: _____

Date: _____

JV Member's Name _____

ICB/NCB No. and title: _____

Page _____ of _____ pages

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Sub-contractor <input type="checkbox"/>
Total Contract Amount			PKR equivalent	
If member in a JV or sub-contractor, specify participation in total Contract amount				
PA's Name:				
Address:				
Telephone/fax number				
E-mail:				
Similar Contract No.	Information			
Description of the similarity in accordance				
1. Amount				
2. Physical size of required works items				
3. Complexity				
4. Methods/Technology				
5. Construction rate for key activities				
6. Other Characteristics				

Construction Experience in Key Activities

Bidder's Name: _____

Date: _____

Bidder's JV Member Name: _____

Sub-contractor's Name¹ (as per ITB 34.2 and 34.3): _____

ICB/NCB No. and title: _____

Page _____ of _____ pages

All Sub-contractors for key activities must complete the information in this form as per ITB 38 and Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

Information				
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Sub-contractor <input type="checkbox"/>
Total Contract Amount	PKR equivalent			
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage Participation (ii)	Actual Quantity Performed (i) x (ii)	
Year 1				
Year 2				
Year 3				
Year 4				
PA's Name:				
Address:				
Telephone/fax number				
E-mail:				

¹ If applicable

2. Activity No. Two

3.

	Information
Description of the key activities in accordance with Section III:	

FORM T-14. Form of Bid Security
(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated. No need of this form if Security Amount will be submitted in shape of CDR / Pay Order]

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: Jamshoro Power Company Limited (JPCL), Mohra Jabal, Sehwan Dadu Road, Indus Highway, Jamshoro

No.: TNCB-16/CIVIL/CFPP/JPCL/2024-25

Title of Procurement: "Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document"

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of "*The Rehabilitation of existing asphalt road to the thickness of 50mmwearing course, walkways both sides, median including providing and fixing of kerb stones along O&M staff residence (Chinese Living Camp) at JPCL as per Schedule of Requirement, Section-V of this Tender Document*" under Request for Bids No. **TNCB-16/CIVIL/CFPP/JPCL/2024-25** ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of **Rs.760,313/-** (in words Rupees: Seven Hundred Sixty Thousand Three Hundred Thirteen only) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to furnish the performance security, in

accordance with the Instructions to Bidders (“ITB”) of the Beneficiary’s bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary’s notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

FORM T-15. Affidavit for Bidder's Blacklisting / Eligibility Status

[The Bidder shall attach original affidavit duly authenticated by the relevant government agency on stamp paper of at least PKR 200/-]

ITB No: **TNCB-16/CIVIL/CFPP/JPCL/2024-25**

Title: *"Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document"*

Bidder: [Name of Applicant / Entity]

Jamshoro Power Company Limited
Mohra Jabal, Dadu Road, Jamshoro, Sindh, Pakistan.

Date:

We, [name of the Bidder] registered under incorporation / registration number [•] under the laws of [•], (the "**Bidder**"), do hereby solemnly declare and submit this undertaking of eligibility that we have not been blacklisted by the Government of Pakistan as of the date of the submission of the Bid.

We also solemnly declare that we have not been declared ineligible/blacklisted by any Governmental/Semi-Governmental agency/department including any of its employer(s) / client(s) till date due to the reasons including but not limited to corrupt practices influencing the Procuring Agency in evaluation of the Bids or contract award decisions etc.

We also solemnly declare that we will continue to be eligible for the Bidding for this Plant in accordance with the Bidding Documents and shall notify the Procuring Agency immediately, in writing, of any change in the structure, formation, personnel or qualifications reflected in our Bid for Bidding that could affect our eligibility under the Bidding Document.

We acknowledge and accept that failure to notify the Procuring Agency of such changes in a timely manner may result in disqualification at any point in time.

We also understand that all capitalized but undefined terms shall have the meaning given to such terms under the Bidding Documents **TNCB-16/CIVIL/CFPP/JPCL/2024-25**

Very truly yours,

[Name of authorized signatory] [Signature of authorized signatory] [Seal of the Company]

Witnesses by:

Signature	_____	Signature	_____
Name:	_____	Name:	_____
Address:	_____	Address:	_____
CNIC/Passport No.	_____	CNIC/Passport No.	_____

FORM T-16. Power of Attorney

[The Bidder shall attach original affidavit duly authenticated by the relevant government agency on stamp paper of at least PKR 200/-]

KNOWN BY ALL THAT by this Power of Attorney [*insert name of Bidder*] (the “**Bidder Company**”) having its head office situated at [•], does hereby nominate, appoint & authorize Mr. [•] S/o Mr. [•] and Mr. [•] S/o Mr. [•] (both of whose specimen signatures are appended below), on behalf of the Bidder Company, hereinafter referred to as the attorney, to sign the Bid, the ancillary documents, the Acceptance of Notice of Award and the Contract for supply of Complete Unit of Firefighting Vehicle (if awarded the Notice of Award) and to act for and on behalf of the Bidder Company and to bind the Bidder Company in relation to the bidding process and all ancillary documents, instruments and evidences submitted pursuant thereto.

The Bidder Company does hereby ratify & confirm whatever the attorney shall do by virtue of these presents.

Specimen signature of Mr. [*name of the nominee*]

Specimen signature of Mr. [*name of the nominee*]

Signature
Name:
Designation:
Company:

Witnesses

1	Signature	_____	2	Signature	_____
	Name:	_____		Name:	_____
	Address:	_____		Address:	_____
	CNIC/Passport No.	_____		CNIC/Passport No.	_____

FORM F-1. Letter of Bid - Financial Proposal

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid - Financial Proposal in the second envelope marked "FINANCIAL PROPOSAL".

The Bidder must prepare the Letter of Bid - Financial Proposal on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text is to help Bidders in preparing this form.

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: TNCB-16/CIVIL/CFPP/JPCL/2024-25

Title of Procurement: *"Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document"*

To: Jamshoro Power Company Limited (JPCL), Jamshoro

We, the undersigned Bidder, hereby submit the second part of our Bid, the Financial Proposal

In submitting our Financial Proposal, we make the following additional declarations:

- (a) **Bid Validity Period:** Our Bid shall be valid for the period specified in **BDS 18.1** (as amended, if applicable) from the date fixed for the bid submission deadline specified in **BDS 24.1** (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (b) **Total Price:** The total price of our Bid is: PKR xxxx (in words Rupees: xxxx) In case of multiple lots as a "Package", total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;
- (c) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*.

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

- (d) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed.

Name of the Bidder: **[insert complete name of the Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: *** [insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

STAMP

****:** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

FORM F-2. Bill of Quantities

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Particular Conditions of Contract, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the engineer/employer and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the engineer/employer may fix within the terms of the Contract.
3. The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate, or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
7. The method of measurement of completed work for payment shall be in accordance with *[insert the name of a standard reference guide, or full details of the methods to be used]*. The method of measurement in package for completed works refers to the system or guidelines used to quantify, value, and evaluate completed construction works as part of a contract. It defines how completed tasks or work items are measured, assessed, and paid for. This is common in engineering, construction, and project management fields. Here are key aspects of the method:

1. Bills of Quantities (BOQ)

A detailed document listing all work items in measurable terms (e.g., square meters, cubic meters, or linear meters).

The contractor is paid based on the quantities of work completed, measured according to the BOQ.

2. Unit of Measurement

Specifies the standard measurement units to be used for various components (e.g., m² for plastering, m³ for concrete, kg for reinforcement).

These units align with industry standards such as ISO or national guidelines.

3. Inspection and Verification

Completed works are inspected to ensure they meet the required specifications.

Measurements are taken on-site, typically using tools like measuring tapes, total stations, or surveying instruments.

4. Documentation

Measurement records are documented through site reports, interim payment certificates, or progress reports.

Contractors and Client agree on the documented quantities.

5. Milestone or Activity-Based Measurement

Payments are sometimes linked to milestones or specific activities completed, based on percentage completion rather than exact quantities

BILL OF QUANTITIES

Contract No. TNCB-16/CIVIL/CFPP/JPCL/2024-25

Client/Company: JAMSHORO POWER COMPANY LIMITED

Name of Work		<i>“ Reconstruction of existing boundary wall along Indus Highway N-55 JPCL, Jamshoro as per schedule of requirement, section-v of this tender document”</i>			
BILL OF QUANTITIES					
S. No.	Description	Unit	Quantity	Rate	Amount
1	Excavation in Foundation of building, bridges and other structures including dibbling dressing, refilling around structures with excavated earth, water and ramming lead up to 30 m and lift up to 1.5 m in ordinary Soil WS- 2022 P/2-5 I-22(b)	Cu m	56.03		
2	Dismantling brick work in cement mortar WS-2022 P/3-1 I-9	Cu m	531.42		
3	Dismantling cement concrete plain 1:4:8 WS-2022 P/3-2 I-14 (a)	Cu m	35.49		
4	Dismantling cement concrete plain 1:2:4 WS-2022 P/3-2 I-14 (c)	Cu m	50.78		
5	Dismantling rolled beams, Iron Grill or iron rail etc WS-2022 P/3-4 I-33	Kg	1145.50		
6	Dismantling all type of wire fencing including rolling wires into bundles and collection materials. WS-2022 P/3-4 I-35	m	1880.00		
7	Carriage of 3.0 cum or 5 Metric Tons of all material like earth, silt, sand, stone, lime, surkhi, steel, girders, M.S. Sheets, M.S. Bars etc or 4.25 cum of timber or 3.75 metric tons of fuel, wood by truck or any other measure up to 2nd Km. WS-2022/P1-1 I-1(vi)	cu m	617.69		
8	Cement concrete plain including placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ration 1:4:8 WS-2022/P/5-1 I-2(d)	Cu m	28.71		
9	Brick Work in foundation and plinth in cement sand mortar Ratio 1:4 WS-2022/P/6-1 I-1-3	Cu m	116.21		
10	Filling watering and ramming earth under floors with surplus earth from foundation WS-2022/P/2-5 I-25	Cu m	1033.38		
11	Brick Work Other than building including striking of Joints up to 3 m height in cement sand mortar Ratio 1:4 WS-2022/P/6-1 I-4(c)	Cu m	242.45		
12	Extra Labour for profile and flared walls WS-2022 P/6-2 I-10	Cu m	242.45		
13	Cutting Holes 100x150 mm in stone or brick or concrete wall with chisel repairing masonry and removing debris within 30m lead WS-2022/P-2022 I-170	Per Hole	173.00		
14	Cement concrete plain including placing compacting finishing and curing complete i/c screening and washing of stone aggregate without shuttering Ration 1:2:4 WS-2022/P/5-1 I-2(b)	Cu m	7.29		
15	Erection and removal of centering for R.C.C. or plain cement concrete work (ii) vertical WS-2022/ P/5-5 I-21	Sq m	311.80		
16	M.S. Deformed Bars 60 Grade (Tensile Strength 420 MPa) WS-2022 P/22-10 I-369	M.Ton	1.394		

17	Reinforced Cement concrete work using coarse sand except the cost of steel reinforcement and its labour for bending and binding. This rate also includes all kind of forms, moulds, lifting shuttering, curing, rendering and finishing the exposed surface (including screening and washing of shingle) Ration 1:2:4 WS-2022/P/5-2 I-3(i)	Cu m	23.28		
18	Cement Plaster 1:4 upto 1st Floor Height 20mm WS-2022 P/10-1 I-5(c)	Sq m	3182.81		
19	Providing and fixing G.I 1.5m length 50x50x6 mm angle iron post for barbed wire fencing around switch yard duly fixed in position (Dwg No. PD-W/TB-126) WS-2022 P/20-6 I-58	Each	173.00		
20	Providing and fixing 4 rows barbed wire fencing around switch yard G.I. barbed wire 14 SWG 2 Ply 4 Points fixed on G.I. angle iron 50x50x6 mm post excluding cost of angle iron post WS-2022 P/20-9 I-81	R.m	470.00		
21	Weather shield paint three coats on new cement plaster surface WS-2022 P/10-3 I-24	Sq m	3176.79		
22	Painting new surface (d) preparing surface and painting of guard bars, gates of iron bars, gratings railing i/c standards braces (etc) and similar open work WS-2022/P-12-3 1-5(d) i+ii	Sq m	132.42		
23	Jungle Clearance and removing with 30 m WS-2022 P/-20-1 I-1-3				
	(a) Light	100 sqm	423.00		
	(b) Thick	100 sqm	987.00		
	Total Amount as per WAPDA Schedule Rate 2022				
	Add Market Rate Item				
24	Iron Sheet for Safety Purpose	Complete Job	1		
			Total Amount		
			Add 15% SRB		
			Grand Total Amount		
			_____ % Above / Below		
Total Amount in Words Pak Rs. _____					

Section VII. General Conditions (GC)

Red Book:

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The Conditions of Contract are the “General Conditions” which form part of the “Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer (“Red book”) Second edition 2017” published by the Federation Internationale Des Ingenieurs Conseils (FIDIC) and the following “Particular Conditions” which shall complement the General Conditions of the Contract.

An original copy of the above FIDIC publication i.e. “*Conditions of Contract for Building and Engineering Works Designed by the Employer*” must be obtained from FIDIC.

International Federation of Consulting Engineers (FIDIC)

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www.fidic.org

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Section VIII. Special Conditions of the Contract

Special Conditions of the Contract

The Special Conditions of Contract (SCC) complement the General Conditions of Contract (GCC) to specify data and contractual requirements of the Procuring Agency/ Employer, the engineer/employer, the sector, the overall project, and the works. In the event of a conflict, the provisions herein shall prevail over those in the GCC.

Part A – Contract Data

Contract data of the SCC includes data to complement the GCC in a manner similar to the way in which the Bid Data Sheet complements the Instructions to Bidders.

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
General Provision (GCC 1)		
1.	1.3	<p>For notices</p> <p>Procuring Agency/ Engineer’s Authorized representatives name and address:</p> <p>Engr. Bashir Ahmed Babar CE/Project Director PIU 660MW, CFPP Jamshoro Phone: 022 9213744 Email: pdpiu@jpcl.com.pk</p> <p>Engr. Faique Ali Domki, Director Civil PIU, 660MW, CFPP Jamshoro Mobile: 03337141457 Email:faiqueali80@gmail.com</p> <p>Contractors Authorized representatives name and address:</p> <p>The address of the most Advantageous Bidder will be utilized as mentioned in the bidding document</p>
2.	1.4	<p>Governing Law;</p> <p>The Applicable Law shall be the Laws of Pakistan</p>
3.	1.4	<p>Communication Language:</p> <p>The Communication Language shall be English</p>
4.	1.5	<p>Documents forming the contract listed:</p> <ol style="list-style-type: none"> 1. The Contract Agreement/Work Order 2. Letter of Acceptance 3. The completed Form of Bid 4. Contract Data 5. Conditions of Contract 6. The completed Schedules to Bid including Schedule of Prices 7. The Drawings, if any 8. Specifications

The Employer/ Procuring Agency (GCC Clause 2)		
5.	2.1	Time for access to the Site: There (3) days after issuance of Notice to Commence “NTC”
The engineer/employer (GCC Clause 3)		
6.	3.2	Engineer/Employer’s Duties and Authority: <i>The following paragraph is added after duties:</i> Procuring agency shall ensure that the engineer/employer’s Representative/ Staff is a professional engineer as defined in the Pakistan Engineering Council Act 1975. The Variations resulting in an increase of the Accepted Contract Amount in excess but not exceeding 15%, shall require approval of the Procuring agency/ Employer.
The Contractor (GCC Clause 4)		
7.	4.2	Performance guarantee/ security will be in the form of a CDR/unconditional Bank Guarantee in the amount of Ten Percentage (10%) of the Contract Price, valid up to defects notice period “DNP”/defects liability period “DLP”
8.	4.7.2	Setting out <i>Period for notification of errors in the items of reference:</i> As soon as practicable, after receiving the items of reference <i>not less than 5 days</i> , the contractor shall be responsible for the contract and proper setting out of the works and correctness of the position, reduced levels, dimensions and alignment of all parts of the work including marking out the correct lay out in reference to the permanent benchmark and reference points. Only one permanent benchmark and basic reference lines shall be marked and shown to the contractor as basic data. The contractor shall have all necessary instruments, appliances and labour in connection therewith. If at any time during the progress of work, any error is detected in respect of the position, levels, dimensions or alignment of any part of the work, the contractor will be required to do so by the engineer/employer-in-Charge or his representative, at the expenses of the contractor, shall rectify such errors to the satisfaction of Engineer-in-Charge/Employer unless such error is due to incorrect data supplied by the engineer/employer-in-Charge.
9.	4.22	Contractor’s Operations on site The work site and Plant & Machinery parking site will be cordoned, displaying caution and safety sign boards, keeping unauthorized people off the site. Workers should wear safety PPEs as per requirement of site.
Sub-Contracting (GCC Clause 5)		
10.	5.1(a)	Maximum allowable accumulated value of work subcontracted Subcontracting may be allowed with prior written permission of Procuring Agency for <ul style="list-style-type: none"> • Non-critical Materials • Materials outside WAPDA composite rates • Specialized Machinery • Skilled labour (Roughly 25% percentage of the Accepted Contract Amount) Not Applicable

11.	5.1 (b)	<p>Works for which sub-contracting is not permitted.</p> <ul style="list-style-type: none"> • Management and supervision of the contract • Regulatory compliance /Statutory approvals, licensing, NOCs, compliance with Social Safeguard Regulations • Surveying and setting out which must be performed under the main contractor's strict supervision • Quality Control and Testing such as soil compaction and concrete strength • Key Earthworks • Boundary Wall Construction which requires tight control <p>Sub-contracting related to core structural integrity is not permitted.</p>
Staff and Labour (GCC Clause 6)		
12.	6.5	Work will be carried out in normal working hours: 08 am to 06pm with prayer /rest/ lunch breaks
Plant, Material and Workmanship (GCC Clause 7)		
13.	7.2	Samples are required for A Class Bricks, Cement, Sand (Fine aggregate), Water etc.
Commencement, Delays and Suspension (GCC Clause 8)		
14.	8.3	The contractor shall submit the work execution program within five days from issuance of Work Order
15.	8.8	Delay damages shall be payable for each day of delay shall be 0.1% of the Contract Price per day, in the currency and proportions in which the Contract Price is payable. Maximum amount of delay damages is 10 % of the Contract Price
Measurement and Valuation (GCC Clause 12)		
16.	12.2	<p>Method of measurement shall be</p> <p>Measurement of quantities will be conducted as per actual using standard methods of measurement against estimated /bid quantities as mentioned in the schedule of prices/BoQ</p>
17.	12.3	<p>The engineer/employer shall value each item of work on an actual basis in manner;</p> <ul style="list-style-type: none"> • the appropriate rate or price for the item shall be the rate or price specified for such item in the Bill of Quantities or other schedules • If items of work not specified in BoQ, or other schedule of prices, the rates will be derived from prevailing market rates with applicable percentage of profit not exceeding 5%
Variations and Adjustments (GCC Clause 13)		
18.	13.4 (b)(ii)	The percentage rate/Item rate to be applied to Provisional Sums for overhead charges and profit shall be in accordance with variation in BoQ or schedule of prices.
19.	13.7	Adjustments for Changes in Cost: The Contract Price shall be fixed during Contract Execution.

Contract Price and Payment (GCC Clause 14)		
20.	14.2	Not Applicable The advance payment shall not be admissible
21.	14.2.3	Not Applicable Repayment of Advance payment:
22.	14.3(iii)	Not Applicable Percentage of retention: Limits of Retention Money
23.	14.5(b)(i)	Plant and Materials: If Sub-Clause 14.5 applies: Plant and Materials for payment when shipped _____ Not Applicable
24.	14.5(c)(i)	Plant and Materials: Plant and Materials for payment when delivered to the Site _____ Not Applicable
25.	14.6.2	Not Applicable Withholding (amounts in) an IPC
26.	14.7(a)	Not Applicable Period of payment of Advance Payment to the Contractor Advance Payment will be made to the contractor up to five working days after submission of Proforma Invoice
27.	14.7b(i)	Period for the Procuring Agency to make interim payments to the Contractor under Sub-Clause 14.6 (interim Payment) The payment against IPC will be made within 30 days after submission of Invoice with all supporting documents of performance of work duly verified and certified by engineer in charge through Project Director based on conformance to all the specifications, direction and scope of work, when the quantum of work exceeds 25%, 50%, 75% of work order. (Three IPCs will be allowed before Final Payment Certificate)
28.	14.7b(ii)	Period for the Procuring Agency to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment) The Final Payment Certificate (FPC) shall be paid within 30 days of submission of the Invoice with following Documents <ol style="list-style-type: none"> 1. Final Payment Certificate (FPC) Invoice 2. Substantial Completion Certificate issued by PA 3. Lab Reports in original performed as per contract 4. Actualized measured quantities Certificate 5. Adjustment of deviations in agreed contract quantities and Claimed IPCs
29.	14.7(c)	Period for the Procuring Agency to make final payment to the Contractor

		Within 30 days of submission of Verified Invoice with all supporting documents and recommendation by the engineer in charge and recommended/approved by Project Director PIU, as the case may be.
30.	14.8	<p>Financing charges for delayed payment (percentage points above the average bank short-term lending rate as referred to under subparagraph (a))</p> <p>One-month KIBOR (ask)</p>
31.	14.11.1(b)	<p>Number of additional paper copies of draft Final Statement</p> <p>03 Sets of draft Final Statement shall be submitted with PA</p> <p>In a Boundary Wall construction contract, the Draft Final Statement is a formal document prepared by the contractor near the end of the project. It summarizes all financial aspects of the contract, including the final costs, payments received, and outstanding claims. This document is often submitted to the client or the employer for review before the final account is agreed upon. It is a critical step in concluding the financial side of the project.</p> <p>Key Elements of a Draft Final Statement:</p> <ol style="list-style-type: none"> 1. Contract Sum: The original contract price agreed upon at the start of the project. 2. Adjustments: Changes due to variations, additional works, or omissions made during the project. 3. Payments Received: Details of payments made by the client throughout the project, including interim payments. 4. Claims: Outstanding claims, such as delays, disruptions, or unforeseen costs. 5. Deductions: Retention amounts, penalties for delays (if applicable), or other deductions. 6. Outstanding Balance: The remaining amount (if any) to be paid to the contractor. 7. Supporting Documents: Records like measurement sheets, change orders, and approved variations to substantiate the claims. <p>Purpose of the Draft Final Statement:</p> <p>Reconciliation: Ensures both parties agree on the financials before finalizing the project.</p> <p>Transparency: Provides a clear overview of the financial position and any disputes.</p> <p>Closure: Serves as the basis for the final payment and the issuance of the Final Certificate.</p> <p>Once the client reviews and approves the Draft Final Statement (with or without modifications), it may lead to the Final Account and the formal closure of the contract.</p>
32.	14.15	<p>Currencies of Payment</p> <p>Payment for the Accepted Contract Amount will be made in <i>Pakistani Rupee only</i>.</p>

33.	14.15 (a)(i)	The proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchange to be used for calculating the payments, shall be as stated in the Contract Data, except as otherwise agreed by both parties. Not Applicable
34.	14.15 (c)	Payment of Delay Damages shall be made in the currencies and proportions specified in the Contract Data. Payment of Delay Damages shall be made in PKR one-month KIBOR (ask)
35.	14.15 (f)	If no rates of exchange are stated in the Contract Data, they shall be those prevailing on the Base Date and published by the central bank of the Country. Not Applicable
36.	17.2 (d)	Liability for Care of the Works Any operation of the forces of nature (other than those allocated to the Contractor in the Contract Data) which is Unforeseeable or against which an experienced contractor could not reasonably have been expected to have taken adequate preventative precautions.
Insurance (GCC Clause 19)		
37.	19.1	Permitted deductible limits The contractor shall take full responsibility to take all precautions to prevent loss or damage to the works or part thereof for any reasons whatsoever (except for reasons which are beyond control of the contractor or act of God, e.g. flood, riots, war, earthquake, etc.) and shall at his own cost repair and make good the loss/damage to the work so that on completion, the work shall be in good order and condition and in conformity with the requirements of the contract and instructions of the engineer/employer-in-charge/Employer.
38.	19.2.1(b)	Additional amount to be insured (as a percentage of the replacement value, if less or more than 15%) Not Applicable
39.	19.2.1(iv)	List of Exceptional Risks which shall not be excluded from the insurance cover for the Works
40.	19.2.2	Extent of insurance required for Goods The amount of insurance required for Goods shall be for full replacement value of the Goods
41.	19.2.3(a)	Amount of insurance required for liability for breach of professional duty- Not Applicable
42.	19.2.3(b)	Insurance required against liability for fitness for purpose Not Applicable
43.	19.2.3	Period of insurance required for liability for breach of professional duty Not Applicable

44.	19.2.4	Amount of insurance required for injury to persons and damage to property: PKR 1,500,000/-
45.	19.2.6	<p>Insurance</p> <p><u>Other insurances required by Laws and by local practice</u></p> <p>The contractor shall provide all other insurances required by the Laws of the countries where (any part of) the Works are being carried out, at the Contractor's own cost. Other insurance required by local practice (if any) shall be detailed in the Contract Data and the Contractor shall provide such insurance in compliance with the details given at the Contractor's own cost. Not Applicable</p>
Dispute Avoidance/ Adjudication Board (GCC Clause 21)		
46.	21.1	<p>Time for appointment of DAAB</p> <p>The appointment of DAAB members will be conducted soon after issuance of LOA/Work Order</p>
47.	21.1	The DAAB shall comprise three (3) <i>members</i>
48.	21.1	<p>List of proposed members of DAAB</p> <ul style="list-style-type: none"> - Proposed by Employer/ Procuring Agency One Member proposed by PA - Proposed by Contractor One Member proposed by Contractor - Proposed with mutual consent of Employer and Contractor One Independent Member who shall act as Convener /Chairman of the DAAB
49.	21.2	<p>Appointing entity (official) for DAAB members</p> <p>CEO JPCL/PD PIU and the Contractor shall appoint DAAB members</p>

SPECIAL STIPULATIONS

Clause Conditions of Contract

1.	The procuring agency reserves the right to issue variation in case of emergency.	Up to 15% of the contract price stated in the Letter of Acceptance/Work Order.
2.	Handing Over of Site by the contractor on completion of work	On completion of the work all rubbish, debris, brick bats etc. shall be removed by the contractor(s) at his own expense and the site cleaned and handed over to the company and he shall intimate officially of having completed the work as per contract
3.	Canvassing in Tender:	Canvassing in connection with the tenders in any shape or form is strictly prohibited and tenders submitted by such tenderers who resort to canvassing shall be liable for rejection.
4.	Final Inspection of Work	<p>The engineer/employer-in-charge and any other officer nominated by the JPCL for the purpose shall make final inspection of all work included in the contract/work order, or any portion thereof, or any completed structure forming part of the work of the contract, as soon as practicable after notification by the contractor that the work has been completed and ready for acceptance. If the work is not acceptable to the engineer/employer-in-charge/Employer at the time of such inspection, he shall inform the contractor in writing as to the particular defects to be remedied before final acceptance can be made.</p> <p>Defects appearing after acceptance:</p> <p>Any defects which may appear within the defect liability period and arising, in the opinion of the engineer/employer-in-charge/Employer, from lack of conformance with the drawings and specifications, shall, if so required by the engineer/employer-in-charge in writing, be remedied by the contractor at his own cost within the time stipulated by the engineer/employer-in-charge. If the contractor fails to comply, the engineer/employer-in-charge/Employer may employ other people to remedy the defects and recover the cost thereof from the dues of the contractor.</p>
5.	Measurement and Payments	<p>Except where any general or detailed description of the work in the Bill of Quantities or specifications of the contract/ work order provides otherwise, measurement of work done shall be taken in accordance with the relevant standard method of measurement as per the instructions of the engineer -in-Charge /employer</p> <p>All items of work carried out by the contractor in accordance with the provision of the contract having a financial value, shall be entered in the Measurement Book as prescribed by the JPCL so that a complete record of the measurements is available for all the works executed under the contract and the value of the work executed can be ascertained and determined therefrom. Measurements of completed work / portion of completed work shall be recorded only in the</p>

		Measurement Books. Measurement shall be taken jointly by the engineer/employer-in-Charge or his authorized representative and by the contractor or his authorized representative.
6.	Below Specification Works	The contractors are required to execute all the work satisfactorily and according to the specifications laid down in the contract/ work order. If certain items of work, executed by the contractor, are below specifications, the contractor should re-do them according to the specifications and instructions of engineer in charge (EIC) and if the contractor fails to rectify the defect within the time and in the manner specified by the EIC, the work shall be got re-done or rectified by the JPCL at the risk and cost of the contractor.
7.	Work execution under supervision of Civil Engineer	The contractor/contractors shall keep on the work site during the progress a competent and experienced Civil Engineer exclusively for the work and necessary assistants who shall represent the contractor. The contractor shall employ, on the site in connection with the execution and maintenance of the work, technical and managerial staff.
8.	Safety and security of material and personnel	The contractor shall, in connection with works, provide and maintain, at his own cost, all lights, security guards, fencing when and where necessary as required by the engineer -in-Charge/employer for the purpose of protection of the works, materials at site, safety of workmen and convenience of the public.
9.	Defects Liability Period	In addition to the defects to be rectified by the contractor as per terms of the contract/ work order, the contractor shall be responsible to make good and remedy at his own expense the defects mentioned hereunder within such period as may be stipulated by the engineer/employer-in-Charge in writing: Any defect in the work detected by the engineer/employer-in-Charge within a period of Six (6) months from the date of issue of Defect Liability certificate / completion certificate.
10.	Time for Furnishing Program	Within 05 days from the date of issuance of work order/signing of contract agreement.
11.	Time for Commencement	Three (3) days after the issuance of Engineer's/Employer's Notice to Commence "NTC".
12.	Time for Completion (works & sections)	02 Months (120 Calendar days) from the Engineer's Notice to Commence "NTC" which will be effective after three days.
13.	Amount of Liquidity Damages/Delay Damages/Penalties	0.1% Damages per day but the total amount will not be more than 10% of contract Price.
14.	Time of Payment from delivery of Engineer's Interim/Running Payment Certificate to the procuring agency.	Not later than 30 days.
15.	Mobilization Advance.	Not Allowed.
16.	Escalation	NOT APPLICABLE
17.	J.V/Consortium/ Association	Not Allowed

SECTION IX: CONTRACT FORMS

Notification of Award

(On Procuring Agency's letterhead)

Letter of Acceptance

[Date].

To:[Name and address of the contractor]

Subject:[Notification of Award Contract No.]

This is to notify you that your Bid dated[date]. for execution of the[name of the contract and identification number, as given in the Bid Data Sheet] for the Accepted Contract Amount of the equivalent of [amount in words and figures and name of currency]., as corrected and modified in accordance with the Instructions to Bidders, is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract, using for that purpose the Performance Security Form included in Section 9 (Contract Forms) of the Bidding Document.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract Agreement

Form of Contract

THIS AGREEMENT made the _____ day of _____ 20____ between [name and address of Procuring Agency] of Pakistan (hereinafter called "the Procuring Agency") of the one part and [name of Contractor] of [city and country of Contractor] (hereinafter called "the Contractor" of other part:

WHEREAS the Procuring Agency desired that the works [brief description of works] should be executed by the contractor and has accepted a Bid by the contractor for the execution and completion of these works and remedying of any defects therein, in the sum of [contract price in words and figures] (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below: -

The Contractor is bound to execute and realize the Project works covered under these contract documents.

- (a) This form of Contract;
 - (b) Letter of Acceptance;
 - (c) the Form of Bid and the Price Schedule submitted by the Bidder;
 - (d) the Works Requirements;
 - (e) the Technical Specifications;
 - (f) the Drawings.
 - (g) General Conditions of the Contract
 - (h) the Special Conditions of Contract,
 - (i) the completed schedule including Bill of Quantities; and
 - (j) [Work Order]
 - (k) All site instructions made in the site order book or logbook by the Employer/ Engineer.
 - (l) All instructions given to the contractor by the Employer/ Engineer which may be in the form of sketches, directions along with requests for additional data, shop drawings, measurements details etc. from the contract related of this work.
 - (m) All shop drawings and samples approved by the Employer/ Engineer.
 - (n) All manufacturer's specifications, data brochures information etc. approved by the Employer/ Engineer.
 - (o) All aspects of work checked and approved by the Employer/ Engineer either on, or off, the project site.
 - (p) All samples and guidelines that the Employer/ Engineer shall instruct the Contractor to follow.
3. In consideration of the payments to be made by the Procuring Agency to the contractor as mentioned in this contract, the contractor hereby covenants with Procuring Agency to execute the works to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)	Signed, sealed, delivered by _____ the _____ (for the Contractor)
Witness to the signatures of the Procuring Agency	Witness to the signatures of the Contractor

Performance Guarantee Form

To: *[name of Procuring Agency]*

WHEREAS *[name of Contractor]* (hereinafter called "the contractor") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for the execution of *[insert name of the works and its brief description]* (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the contractor shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractor a guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Contractor, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

Integrity Pact

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

Contract Number: _____

Dated: _____

Contract Value: _____

Contract Title: _____

[Name of 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 or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fee 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 consultations 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 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, representative or warranty.

[Name of Contractor] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact 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 right 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 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 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.

[Procuring Agency]

[Contractor]

SECTION -X: GENERAL SPECIFICATION FOR CIVIL WORKS

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BOUNDARY WALL SPECIFICATION

1. GENERAL NOTES

This specification covers the general requirements for exploration, design, supply, construction and field testing of substructure and superstructure of compound wall and main gate works on the Coal Fired Power Plant, Jamshoro.

The Contractor shall perform all the works to meet the requirements of these Specifications, the attached drawings and all the relevant Articles in these Contract Documents.

1.1 Standard and References

All equipment, materials, fabrication and tests under these Specifications shall conform to the latest applicable standards, manuals and Specifications contained in the following list or, to equivalent applicable standards, manuals and Specifications, established and approved in the country of manufacturer, and approved as equal by Employer.

ACI American Concrete Institute

AISC American Institute of Steel Construction ANSI American National
Standard Institute

ASCE American Society of Civil Engineers ASTM American Society for
Testing Materials AWS American Welding Society

BS British Standard Codes

National Building Code of Pakistan

Any details not specifically covered by these standards and specifications shall be subject to approval of Employer. In the event of contradictory requirements between the standards and these Specification requirements, the terms of the Specifications shall apply.

Unless specifically mentioned, reference to standards and specifications or to equipment and materials of the particular manufacture, shall be considered as followed by "or equivalent". The Contractor may propose equivalent specifications, materials or equipment, which shall be equal in every respect to that specified. If the Contractor, for any reason, proposes equivalents to or deviates from, the above standard, he shall state the exact nature of the change and shall submit complete specifications of the materials, as well as copies of pertinent standards, for the approval of Employer and decision of Employer in the matter of quality shall be final.

1.2 Scope of works

The following works shall be carried out at 660MW, CFPP Jamshoro to complete the Compound Wall with main gate in all respects, as required for the proper functioning of the power plant.

- Dismantling and removing materials of already available wall.
- Exploration works for soil strength for foundations works for main gate and walls.
- Site Installation
- As there is a permanent access highway to reach the construction area, it won't be difficult for the contractor to make any arrangement for the transportation facilities.
- A final layout for site installation for related works shall be prepared by the Contractor and approved by Employer, before any construction work takes place at the plant site.
- Site clearing and stripping for related works.
- Site grading for related works
- Design, Supply and Installation for compound boundary wall and gate.

1.3 Working Schedule

A binding graphical working schedule shall be submitted before the construction period. The working schedule and any amendments to it during the construction period will require Employer's approval.

1.4 General Notes for contractors and Definitions

a) The work shall be carried out according to the specifications whether specifically mentioned in it or not. No extra in any form shall be paid unless it is definitely stated as an item in the Bill of Quantities. Whenever the specifications are not given or ambiguous, the relevant International Standards and further amendments or decisions of the Employer/Engineer shall be considered as final and binding.

b) The work shall be carried on till it is completed satisfactorily. The contractor shall keep the other contractors informed well in advance of the proposed program of the work so that the proposed work is not hindered. The contractor shall further cooperate with other contractors in respect of any facilities required by them. However, nothing extra shall be admissible to him for such reasonable assistance and facilities afforded to other contractors and the contractor shall be deemed to have taken factor into consideration while quoting his rates.

c) The source of materials stated in the specifications is those from which materials are generally available. However, materials not conforming to the specifications shall be rejected even if they come from the stated sources. The contractor should satisfy himself that enough material of acceptable specification is available from the stated or other sources.

d) The requirements of specifications for the materials shall be fulfilled by the Contractor without extra charge including transportation or any other taxes involved that is the item rates quoted shall be deemed to have taken these into account.

2. GENERAL OFFICIAL ACCESSORIES

2.1 Office Accommodation

The contractor shall provide at his own expense adequate temporary accommodation and toilet facilities for his workers as well as office space for his staff on duty for construction supervision and keep the same in good order. This may be done to suit site conditions with the approval of the Employer / Engineer. The above-mentioned temporary structures shall be removed on the completion of work at the contractors' own cost.

2.2 Boards

A board of size of 1.5m x 1.0m, shall be made and put at an approved place on the site. This board shall be painted in approved color with names of (a) The proposed construction and owner (b) The Contractor (c) The engineer/employer/Employer and (d) any other specialist consultant, as directed by the Employer/ Engineer.

2.3 Drawing, Instructions, Measurements

All the work shall be done according to the drawings and instructions of the Employer/ Engineer and the Contractor shall arrange to test materials and/or portions of the works at his own cost to prove their soundness and sufficiency. If after any such test and in the opinion of the Employer/ Engineer any work or portion of work is found to be defective or unsound, the Contractor shall pull down and re-execute the same at his own cost. Defective materials shall be removed from the site.

2.4 Preparing and Clearing the site

The site described and shown on the plans shall be cleared of all obstructions, loose stones and materials, rubbish of all kinds as well as brushwood. All holes or hollows, whether originally existing or produced shall be well rammed and leveled off as directed.

2.5 Measuring Materials

Materials requiring measuring shall be measured separately in boxes of appropriate sizes before being mixed. They should be calculated and marked with red if necessary, in presence of the Employer/Engineer.

2.6 Temporary Protection

All trenches, walls, newly laid concrete or other work requiring protection from weather or accidental injury shall be protected by means of tarpaulin or in any other way to keep the work safe. Nothing extra shall be paid for this matter.

2.7 Quality of Work

Materials, tools and plants and workmanship shall be the best of several kinds obtainable in the market and as approved by the Employer/ Engineer.

2.8 Leave Clean

On completion, all works must be cleaned, rubbish removed, and the works and land cleaned of surplus materials, debris and other accumulations and everything left in clean and orderly condition.

2.9 Samples

Samples of each class of work required, shall be submitted by the Contractor for the approval of the Employer/ Engineer and after such approval these samples shall be deposited at a place chosen by the Employer/ Engineer. The Contractor will be required to perform all works under the contract in accordance with these approved samples.

2.10 Storage

Safe, dry and proper storage shall be provided for all materials, particularly for cement. The capacity of the cement storage shall be equal to one-fourth of the total quantity to be used but may not exceed 200 tones at the site of work.

2.11 Contractor's Laboratory/Lab Tests

The Contractor shall provide a laboratory with equipment at his own cost or, if the Contractor is unable to provide the laboratory, the testing of construction materials shall be done in another laboratory with prior approval of the employer.

2.12 Surveying Equipment

The Contractor should supply the following surveying instrument if necessary and required for above for checking of contractor's work to the Employer/ Engineer.

- | | | |
|----|--|-------------------------|
| a) | Theodolite (least count 10") | -1 set. |
| b) | Level (Dumpy level) | -1 set. |
| c) | Measuring tape (Tazima Standard) | -2 sets. |
| d) | DGPS | -1 Set |
| d) | Necessary staff and other equipment. | |
| e) | Universal testing machine 100 tons with
Compression and tension | -1 set |
| f) | Standard Sieves for testing sand and
aggregates up to 40mm. | -2 set. |
| g) | Slump Cone | -2 set. |
| h) | Cube Moulds | -6 nos, for one casting |

The Contractor shall maintain the equipment in a serviceable condition and immediately corrected or replaced if it is found to be inaccurate. The contractor must perform the concrete cube casting and testing in the presence of Employer/ Engineer and as directed by him. All casting of testing cubes should be carried out at actual site condition and should be cured according to the main casted slab or beams. The Contractor shall perform tests on materials and concrete cubes as specified as presence of the Employer/ Engineer and as directed by him and shall submit to the Employer/ Engineer two copies of the results of each test, such results being entered on forms as approved by the Employer/ Engineer. The third copy of the result of each test shall be retained in the Contractor's Laboratory. Without relieving the Contractor any of his responsibilities for the testing of materials the Employer/ Engineer may, as and when desired, carry out any of the tests, using the facilities provided by the Contractor, for this work.

3. MATERIALS

3.1 General

The materials supplied and used in the works shall comply with the requirements of these Specifications. They shall be new, except as may be provided elsewhere in the Contract or permitted by the Employer/ Engineer in writing. The materials shall be manufactured, handled and used in a workmanlike manner to ensure completed work in accordance with the Contract.

3.2 Sources

The source of materials should be selected and notified to the Employer/ Engineer and approved by him. The use of any one kind or class of material from more than one source is prohibited, except by written permission of the Employer/ Engineer. Such permission, if granted, will set forth the conditions under which the change may be made. The source or kind of materials shall not be changed at any time without written permission of the Employer/ Engineer. If the product from any source proves unacceptable at any time, the Contractor shall make such arrangements as may be necessary to assure acceptable material, either by alterations in plant operations or by a change of source. Claims for increased costs which may be occasioned by such alterations or changes will not be given consideration, unless the source of the unacceptable material was designated in the Contract as a source of material.

When any manufactured product, either new or used, is furnished by the owner, the location at which such material will be delivered to the Contractor will be designated in the contract. In such cases, the contractor shall haul the materials from the designated delivery point to point of use, and compensation for such hauling will be considered to be included in the Contract unit price for placing the materials in the finished work.

3.3 Inspection and Acceptance of Materials

Final inspection and acceptance of materials will be made only at the site of the work. The Employer/ Engineer reserves the right to sample, inspect and test materials throughout the duration of the work, and to reject any materials which are found to be unsatisfactory at the time of use.

A preliminary inspection of materials may be made at the source for the convenience of the Contractor, but the presence of Employer/ Engineer at the source shall not relieve the Contractor of the responsibility of furnishing materials which comply with these specifications. The Employer/ Engineer shall have free entry at all times to those parts of any plant which concerns the manufacture or production of the materials ordered.

3.4 Samples and Tests

The Contractor shall submit sample of all materials for the approval of the Employer/ Engineer prior to commencement of work. The Contractor shall give immediate notification of the placing of orders for shipment of materials to permit testing. He shall furnish without charge all the samples required and he shall afford such facilities as the Employer/ Engineer requires for collecting and forwarding such samples.

The Contractor shall not make use of or incorporate into the work the materials represented by the samples until the tests have been made and the materials are found to comply with the requirements of the specifications, except that any materials which have a satisfactory record of compliance with the Specifications may, at the discretion of the Employer/ Engineer, be used until the tests are completed. If the material fails to pass the tests, no further use thereof shall be made until the Contractor has taken steps satisfactory to the Employer/ Engineer to correct the deficiencies.

When required by the Employer/ Engineer preliminary samples of the character and quantity prescribed shall be submitted by the Contractor or producer for examination and shall be tested in accordance with the methods referred to in this Specification. The acceptance of a preliminary sample, however, shall not be construed as acceptance of materials from the same source delivered later. Only the materials actually delivered for the work will be considered, and their acceptance or rejection will be based on the results of the tests and inspections prescribed in these Specifications.

3.5 Defective Materials

All materials which do not conform to the requirements of the Contract will be rejected whether in place or not. They shall be removed immediately or taken away from the site immediately thereafter. No rejected material, the defects of which have been subsequently corrected, shall be used in the work unless approval in writing has been given by the Employer/ Engineer. Upon failure of the Contractor to comply promptly with any order of the Employer/ Engineer given under this Clause, the Employer/ Engineer shall have authority to cause the removal and replacement of rejected material and to deduct the cost thereof from any monies due to the Contractor.

3.6 Trade Names and Alternatives

For convenience in designation in the Contract, certain articles or materials to be incorporated in the work may be designated under a trade name or the name of a manufacturer and his catalogue information. The use of an alternative article or material which is of equal quality and of the required characteristics for the purpose intended will be permitted, subject to the following requirements:

- a) The burden of proof as to the quality and suitability of alternatives shall be upon the Contractor and he shall furnish all information as required by the Employer/ Engineer. The

Employer/ Engineer shall be the sole judge as to the quality and suitability of all alternative articles or materials and his decision shall be final.

b) Whenever the specifications permit the substitution of a similar or equivalent material or article, no tests or action relating to the approval of such substitute material will be made until the request for substitution is made in writing by the Contractor accompanied by complete data as to the quality of the material or article proposed. Such a request shall be made in ample time to permit approval without delaying the work.

3.7 Contract Documents

The Contractor is bound to execute and realize the Project works covered under these contract documents.

These contract documents to cover the said work shall along with that is normally understood therein comprise of

- a) These Tender Documents.
- b) All Tender and Working Drawings issued by the owner prepared by this Employer/ Engineer.
- c) All site instructions made in the site order book or log book by the Employer/ Engineer.
- d) All instructions given to the contractor by the Employer/ Engineer be in the form of sketches, directions along with requests for additional data, shop drawings, measurements details etc. from the contractor related of this work.
- e) All shop drawings and samples approved by the Employer/ Engineer.
- f) All manufacturer's specifications, data brochures information etc. approved by the Employer/ Engineer.
- g) All aspects of work checked and approved by the Employer/ Engineer either on, or off, the project site.
- h) All samples and guidelines that the Employer/ Engineer shall instruct the Contractor to follow. In particular covering all works where the contractor shall follow the existing designs, decoration, methods of construction, finishes proportions, elevations etc. of the existing building.

4. EARTHWORKS AND EXCAVATIONS

4.1 Layout and Site Clearance

Laying and setting out of boundary wall including site clearance by removing grass, shrubs etc. maximum depth of excavation and filling 0.30 m. including dressing and leveling.

The Contractor is required to accurately lay out each structure and other facilities as per the instructions and guidance of the Employer/Engineer and his representative at site. For this the Contractor must establish points for foundations of the structures as shown in the drawings by establishing reference points fairly permanent to enable regular confirmations by the Employer/Engineer for their accuracy. Ground levels must be established near to each structure as well for common height control of the structures as per the specific instructions of the Employer/ Engineer.

The site described in the plan shall be cleared of all grass, shrubs etc. The maximum depth of excavation or filling shall be 0.3 m. The surplus excavated material shall be disposed within a lead of 200 m as directed.

No payment shall be made separately for site clearance. The unit price of layout and site clearance shall be incorporated in the unit bid price of earthwork in excavation and filling.

4.2 Earth work

Earthwork in excavation in trenches, raft foundation etc. in soil including dressing of sides, ramming of bottom, lift up to 2.0 m. stacking of excavated materials at least 2 m clear from

the edge of excavation and then returning the stacked soil in 0.15 m layer when required in plinth of foundations, laying and depositing the layer by watering and ramming and then disposing of all surplus excavated soil as directed within a lead of 200 m.

4.3 Excavation

The foundation rafts etc. shall be excavated to the dimensions shown on the drawings and to depth, at which in the opinion of the Employer/ Engineer stratum of good hard soil is observed.

The excavation shall be carefully carried out to the levels, shapes and dimensions as shown in the drawings or as directed by the Employer/ Engineer to receive the concrete work. Should any of the excavations be taken down below the specified levels, the Contractor shall fill in such excavation at his own expense with concrete well rammed in position until it is brought up to the proper levels. Filling in with excavated materials will not be allowed for this purpose. No extra charge will be given for the lift of the excavated materials up to 2.0 m. The excavated earth shall be stacked at least 4 m from the edge of foundation. The Contractor, at his own cost, shall dispose off all surplus excavated soil as directed by the Employer/ Engineer within a lead of 200 m.

If foundations are made broader or longer than directed, the extra length and breadth shall be filled in after the foundations are built with earth rammed hard, by the Contractor at his own cost. The Contractor shall at his own expense and without extra charge, make provision for all extra excavation in the slope, pumping, dredging or bailing out water and these trenches shall be kept free from water while the foundation work is in progress. The Contractor shall also at his own cost remove such portions of boulders or rocks, as are required to make the bottom of the trench horizontal and level. Nothing extra shall be admissible for pumping and/or bailing out water unless otherwise taken separately in the Bill of Quantities.

The trenches and rafts shall be inspected by the Employer/ Engineer before the concrete is laid therein, when the trench level shall be recorded. The filling in of trench excavations can be done in not more than 0.15 m layers. Each layer should be well watered and rammed hard before adding the next layer. Such fillings shall be brought up to the ground level without extra charge and shall form part of the item of excavation.

4.3.1 Timbering of Trenches for foundation and other works

When foundations are to be taken deep, the sides of the trenches shall be protected by erecting timber shoring and strutting. Timbering shall be close or open depending on the nature of the soil and work. The arrangement of timbering, sizes and spacing of members shall be as directed by the Employer/ Engineer. Nothing extra on this account shall be admissible unless otherwise taken separately in the Bill of Quantities.

4.3.2 Trimming and Leveling

The bottom of all foundation should be trimmed and leveled in accordance with the drawings.

4.3.3 Disposal

Disposal of the surplus earth shall be done within the site as directed by the Employer/ Engineer. Nothing extra shall be paid for such disposal within the lead of 200 m. The earth excavated shall be used for filling and terracing.

4.3.4 Measurement

Measurement shall be the product of the exact length and width of the lowest step of the footings according to the drawing or the Employer/ Engineer's instructions and the depth measured vertically. Where the ground is not level, average depth shall be taken. Rate shall be inclusive of all the works described above.

4.4 Plinth filling/ Back Filling

Filling in plinth with materials brought from outside in 0.15 m layers under floors including watering, ramming consolidation and dressing complete.

- a) Sand
- b) Earth
- c) Random rubble filling

The earth for filling shall be brought from within the site within a lead of 300 m, to be approved by the Employer/Engineer, prior to filling. If the earth from within the site is of unsuitable quality, earth shall be brought from outside the site. The sand shall be either pit sand or river sand as approved.

The work shall be done with earth/sand in 0.15 m layers, each layer being well watered and rammed thoroughly.

4.4.1 Measurement

The measurement shall be taken for the consolidated thickness of earth/sand and paid for in cubic meters. Pit or stack measurement shall not be done for payment. The quantity of earth fills under this item shall be calculated as the sum total of earth filling required in trenches around foundations, over raft, under floors or any other filling less the total quantity involved in foundation excavation. It shall include excavation of the earth/sand, transportation, screening if necessary, filling and the cost of labour etc. all complete.

5. CONCRETE WORK

5.1 Plain Cement Concrete (P.C.C.) Works

Providing and laying plain cement concrete excluding cost of formwork complete as required

- i) M10, PCC 1:3:6 (1 cement: 3 sands: 6 stone aggregate)
- ii) M15, PCC 1:2:4 (1 cement: 2 sands: 4 stone aggregate)

5.1.1 Materials

Cement, sand and stone aggregate shall conform to the specifications as under plain Cement Concrete work for RCC works.

5.1.2 Mixing

All proportions shall be by volume except cement which shall be proportioned by weight and as specified. Mixing shall be done in a mechanical mixer as per specifications of reinforced cement concrete work. However, in special cases, hand mixing may be allowed by the Employer/ Engineer when the following procedure shall be adopted. The several materials shall be accurately gauged in boxes and thoroughly mixed on a watertight platform of adequate size, being turned over at least thrice till the color is uniform and then twice wet. Water shall be added gradually and not more than necessary or specified by Employer/ Engineer that much concrete shall be mixed which can be used within half an hour. Each stack shall however be no larger than consuming one bag of cement. All such stacks shall be placed distinct from each other.

5.1.3 Laying

Concrete shall be laid in horizontal layers of not more than 0.15 m thick and gently rammed.

5.1.4 Curing

After laying, the concrete shall be kept wet for seven days constantly by ponding. If cast in hot weather, it shall be covered with gunny bags which shall be kept constantly wet. Other work on concrete shall not start until 3 days after laying of concrete. Concrete curing shall be done strictly for seven days. Any failure of keeping the concrete work in constant wet condition, the work will be done by Employer/ Engineer and cost of above work shall be deducted from Contractor's bill.

5.1.5 Measurement

Measurement shall be in cubic meter of exact length, breadth and depth. This shall be exclusive of any form of work required to complete the item. Rate shall include all materials and labour.

6. REINFORCED CEMENT CONCRETE (RCC)

Providing and laying PCC for RCC work with stone aggregate 20mm and down gauge well graded excluding the cost of formwork and the cost of the reinforcement

- i) M 15
- ii) M 20

6.1 Materials

The materials used in the works shall be of the qualities and kinds specified. Materials delivered to work shall be equal to the approved samples which shall be deposited with the Employer/ Engineer at least 7 days before it is required for use in work. The quantity of all necessary materials should be checked by the Employer/ Engineer for any casting. Delivery shall be made sufficiently in advance of constructional requirements to enable further samples to be selected and tested if so desired by the Employer/ Engineer. No material shall be used in the work until approved. Materials failing to comply with the approved samples and specifications shall be immediately removed from the works at the Contractor's Cost.

6.2 Water

Water used in mixing concrete shall be free from injurious amounts of oils, acids, alkalis, organic materials or other deleterious substances. It should be clean as drinking water.

6.2.1 Cement

The cement shall be ordinary Portland cement of approved brand for ordinary Portland Cement. It shall be delivered on the site in packages with an unbroken seal fixed by the manufacturer and plainly marked with the name of brand and the manufacture. It shall be stored in a dry place, in regular piles not exceeding six bags high and in such a manner that it will be efficiently protected from moisture and contamination, and that the consignments can be used up in the order in which they are received. Set cement shall be immediately removed from the work and replaced by the Contractor at his own expense. If desired, tests should be done by taking samples of cement from stores or elsewhere from work. The selection of samples and procedure for testing shall comply with appropriate specification.

6.2.2 Aggregate

All aggregates shall, where possible, be derived from a source that normally produces aggregate satisfactory for concrete, and if requested by the Employer/ Engineer, the Contractor shall supply evidence to this effect. If instructed to do so, the contractor shall

supply samples of the aggregate for the purpose of making preliminary concrete test cubes as herein-after specified.

Aggregate shall consist of naturally occurring sand and gravel or stone crushed or uncrushed, or a combination thereof. They shall be hard, strong, dense, durable, clean and free from veins and adherent coating. As far as possible, flaky and elongated pieces should be avoided.

Aggregate shall not contain any harmful materials, such as iron pyrites, coal, mica, shale or similar laminated materials, clay, alkali, soft fragments, organic impurities etc. in such quantity as to affect the strength or durability of the concrete or in addition to the above for reinforced concrete, any material which attacks the reinforcement. Aggregates which are chemically reactive with the alkalis of cement are harmful, as cracking concrete may take place. This aggregate shall be protected from spilling oils, mobiles, diesel over it on site.

6.2.3 Fine aggregates

The fine aggregate shall be natural sand or sand derived by crushing suitable gravel or stone and shall be free from coagulated lumps. Sand derived from a stone unsuitable for coarse aggregate shall not be used as the fine aggregate.

The fine aggregate shall not contain more than 3% of material removable by decantation test, nor more than 1% dry lumps. The total of coal, clay lumps, shale, soft fragments and other deleterious substance shall not be more than 5%.

The percentage of clay lumps shall be determined by examining the various fractions that remain after the material has been tested for grading. Any particles that can be broken with fingers shall be classified as clay lumps and the total percentage of clay lumps shall be determined based on the total original weight of the sample. The fine aggregate shall be well graded from fine to coarse and shall meet the following gradation requirements:

Table - 1 GRADATION FOR FINE AGGREGATE

Sieve designation Percentage by weight passing

Sieve size	Percentage Passing by Wt.
9.51mm (3/8 inch)	100
4.76 mm (No.4)	95 to 100
2.38 mm (No.8)	80 to 100
1.19 mm (No.16)	50 to 85
595 microns (No.30)	25 to 60
297 microns (No.50)	10 to 30
149 microns (No.100)	2 to 10

Blending will be permitted to meet the gradation requirements for the fine aggregate.

6.2.4 Coarse Aggregate

The coarse aggregate shall be crushed stone aggregate. The pieces of aggregates shall be angular. Friable, flaky and laminated pieces, mica, shale shall only be present in such quantities as not to affect adversely the strength and durability of the concrete as ascertained

by tests on concrete cubes. After twenty-four hours immersion in water, a previously dried sample shall not have gained weight more than 5% and not more than 10% if it is to be used in plain concrete or elsewhere as described. The percentage of wear at 500 revolutions of Los Angeles Rattler Test shall not be more than 50%. The coarse aggregate shall meet the gradation of Table-2. Moreover, it should conform to previous specification on coarse aggregate.

Table - 2 GRADATION FOR COARSE AGGREGATE.

Percentage by weight passing

Sieve Designation	50mm	40mm	25mm	20mm	10mm	No.4	No.8
40mm & down	100	90-100	20-25	0-15	0-5		
20mm & down			100	90-100	20-25	0-10	0-5

All R.C.C. work shall be carried out in strict accordance with this specification, and the working drawings. Any discrepancies in the dimensions on the drawings or any points not clear to the Contractor shall be brought to the notice of the Employer/ Engineer or clarified in advance before proceeding with the work.

The Contractor shall allow for all wastage in all materials. He shall also allow for all tests of concrete materials and if required produce manufacturer's certificate for cement and steel unless issued by the Owner.

- 1) All form work should be checked for leveling and dimensions as well as all necessary supporting spouts from the Employer/ Engineer.
- 2) Only after getting the formwork checked, reinforcement should be placed properly according to the drawing and detailing.
- 3) The date and time of any casting of concrete should be informed to the engineer/employer/ Employer's 2 days in advance.

No concrete work shall be cast in the absence of the Employer/ Engineer. The Contractor shall personally check that both the formwork and reinforcement have been correctly placed and fixed and satisfy himself that all work preparatory to casting is completely ready, before requesting the Employer/ Engineer for final inspection and approval.

6.2.5 Admixtures

The use of admixtures to improve workability is allowed only if there is proved evidence that neither the strength nor the other requisite qualities of concrete and/or Steel accessories grout, etc. are impaired by their use. The use of admixtures containing calcium chloride, fluorides, nitrates and sulphates is prohibited. The decision of the Employer/ Engineer on all matters relating to the use of admixtures shall be final.

Admixtures shall be stored in suitable waterproof buildings. Any material which has deteriorated, or which has been contaminated whether during transit to the site, at the site or otherwise, shall not be used in the work and shall be immediately removed from the site and replaced at the expense of the contractor.

6.2.6 Mix Design

Concrete mixes for various specified design strengths shall be worked out by the Contractor. The mix proportions shall be selected to ensure that the workability of the fresh concrete is suitable for the conditions of handling and placing, so that after compaction it surrounds all reinforcement or tendons and ducts and completely fills the formwork. When the concrete is

hardened, its quality shall be such as to comply with the strength, durability and other requirements taking into account the conditions to which it will be exposed.

Any standard method of mix design may be used. For determining the "required average strength" the specified minimum shall be taken as one in ten. Unless the Contractor can prove from his past experience that he is capable of achieving a high degree of control a "FAIR" control should be assumed in the initial mix design. Before arriving at the average strength values due regard shall be given to the criteria acceptance of site concrete.

The mixes designed by the Contractor shall be used on works only after obtaining a written approval of the Employer/ Engineer. It is to be understood that the mix design shall be entirely the responsibility of the Contractor and such approval by the Employer/ Engineer shall not relieve him of his responsibility in respect thereof. Sand shall be of an approved quality, clean, sharp and free from injurious amount of dust, mica, shells, soft and flaky particles, shale, alkali, organic matter, loam or other deleterious substances. The sand shall be taken from a source approved by the Employer/Engineer and if required by him it shall be thoroughly washed, screened and graded by the contractor at no extra cost and to the satisfaction of the Employer/ Engineer.

The whole of the ingredients of the coarse aggregate shall consist of hard stones and shall contain no soft or elongated pieces. If it is considered necessary, the Employer/ Engineer may instruct it to be washed, screened and graded at no extra cost.

6.2.7 Measurement and Proportioning of Concrete Materials

The aggregate shall be measured by volume in a gauge box of correct and approved size based on the weight of the material or by other approved accurate means. The gauge box or other container shall be filled with the aggregate without compacting to a predetermined uniform depth, accurate allowance being made for bulking due to moisture content of the fine aggregate, if required on site.

The cement shall be measured by weight, one or more complete bags containing 50 kgs. being used for a single batch of concrete and as the size of the mixer shall permit this to be done. One weighing machine shall be placed in standby condition on casting day and if the Employer/ Engineer feels that any concrete bag contains less than 50 kg, he can measure the weight of it and will direct the Contractor to fulfil necessary weight of cement from the contractor's side.

The normal proportions of cement and aggregate shall comply with the quantities specified below for the concrete described for each part of the work. The specified quantities shall be altered if instructed after examination of the aggregate materials in samples or in bulk in order to obtain the dense concrete with approved materials. Any such alterations within the range of 1 part of fine aggregate to 1½ parts of coarse aggregate and 1 part of fine aggregate to 2½ parts of coarse aggregate shall be made without any alteration in the charge made by the Contractor.

6.3 Properties of Concrete

6.3.1 Concrete Proportions

The minimum cement content of mixture shall be as below:

Grade	Minimum cement content in Kg/cu.m.
M 15	300
M 20	400
M 25	550

6.3.2 Water Cement (W/C) Ratio

In general, w/c ratio of the concrete mix shall be kept minimum during casting. Generally, one bag of cement concrete mix shall use 35.6 liters of water or as necessary. As moisture content of fine and coarse aggregate varies, for workability of concrete mix, the Employer/ Engineer may vary the water quantity and once the water quantity to be placed for one bag of cement concrete mix, is fixed by the Employer/ Engineer, the Contractor shall follow it strictly. As information to the Contractor, the Employer/ Engineer will depute one checking supervisor to the mixing batch, the quantity of water used shall be varied to suit the moisture content of the aggregate and shall be just sufficient to produce a dense concrete, consistent with practical workability.

6.3.3 Concrete Grade and Strength

The compressive strength (cube strength) for Portland cement concrete shall be.

Grade	Preliminary Test at 7days	Work Test at 28days M20
	135 Kg/cm ²	210 Kg/cm ²
M25	185 Kg/cm ²	285 Kg/cm ²

6.3.4 Control of Concrete

(i) Preliminary Tests

The Contractor shall be called upon to submit representative samples of materials to be used for concrete in order that they may be tested at a laboratory and the suitability of materials established. All expenses in connection with the above materials, tests shall be done by the Contractor.

(ii) Works Cube Tests

During the progress of the work, 15 cm cubes shall be made as necessary and tested.

6.3.5 Measurement of Consistency

The consistency shall be determined by making trial mixtures with dried aggregate. The consistency of the trial mixture of approved consistency shall be measured as instructed.

The slump of approved trial mixture shall be measured, and this slump shall not be exceeded throughout all batches of concrete made from the same materials mixed in the same proportions as the trial mixtures and used in these parts of the works as instructed. In no case, the slump shall exceed 50mm. for concrete in slabs or exceed 25 mm. for consolidated by mechanical vibration. The slump test shall be made on concrete actually being placed in the works at the commencement of each grade of concrete placing and such other times as instructed.

The apparatus used for the slump test shall be standard cone. When cone is filled, it shall be raised vertically clear of the concrete and the measurement of the slump shall be measured. Care shall be taken to prevent vibration of the sample being tested. If the Employer/ Engineer requires the use of other means for testing the consistency of the concrete it shall be done as instructed without any extra charge.

6.3.6 Concrete Mixing

The cement and aggregates shall be thoroughly mixed together in the specified proportions by volume or weight in a batch type mechanical mixer, unless another type of mixer is approved. The water shall be admitted to drum of the mixer only when all the cement and

aggregates constituting one batch be in the drum. The concrete shall be mixed until the mixer is of uniform color and in no case for less than one minute. If the drum rotates at lower speeds, the minimum period shall be increased inversely proportional to that speed. The period of mixing shall be measured from time when all the materials and water are in the drum. The entire contents of the drum shall be discharged before materials for the succeeding batch are fed into the drum. Materials spilled from the skip or other containers shall not be used. No partly set or frozen concrete shall be used in the work. Partly set concrete shall not be remixed with the cement or aggregate of the next batch.

6.3.7 Distribution of Concrete

The concrete shall be distributed from the mixers to the position of placing in the works by approved means that do not cause segregation or otherwise impair the quality of the concrete. While transporting concrete over slabs and over beams by any suitable means, the contractor shall conform that the tied bar i.e. upper bar and lower bar shall not get distorted or displaced from its original place.

6.3.8 Preparations For Placing Concrete

Before the concrete is placed, the shuttering shall be tied - up and any water accumulated therein shall be removed. All saw dust, chips, nails, and other debris shall be washed out or otherwise removed from within the formwork. The reinforcement shall then be inspected for accuracy of fixing. Immediately before placing the concrete, the formwork shall, except in frosty weather, be well wetted and inspection opening closed.

6.3.9 Placing Concrete

The interval between adding the water to the dry mix and completion of the concrete placing operation shall not exceed 20 minutes nor when an approved admixture that accelerates the initial setting of the cement be used, exceed ten minutes or as directed by the Employer/ Engineer.

Except where otherwise approved for slabs and large sections concrete shall be placed in the formwork by shovels or other approved implements and shall not be dropped from height more than 1.5m nor handled in a manner to cause segregation. Accumulations of hardened concrete dropping on the reinforcement shall be avoided. Concrete shall be sorted along with the formwork to that position.

Each layer of concrete while being placed shall be compacted by approved methods of ramming or mechanical vibrations to form a dense surface free from honey combing and tolerably free from water marks and air holes or other blemishes. The concrete shall be tamped against the face of the formwork so as to produce dense fair surface. The number and type of mechanical vibrations shall be approved before compacting by vibration. Placing and compaction of concrete shall be done in such a manner as not to disturb concrete already placed, and reinforcement projecting from concrete already placed shall not be vibrated or jarred. For concreting reinforced concrete walls and other structures having least lateral dimensions of 13mm. or under, each layer of concrete while being placed shall be properly compacted by approved methods of mechanical vibrations produced by internal or external mechanical vibration. The laying of concrete over slabs should be uniform thick of required thickness after vibration. This can be confirmed by dipping wooden pegs of required length. The level of all slabs should be in level unless otherwise specified and directed by the Employer/ Engineer. If required, the Employer/ Engineer will check the thickness and give order to the contractor to fill up the newly vibrated slab concrete surface. Any slab thickness after construction, if found less thickness than specified, the contractor will be responsible for the above job.

Any water accumulating on the surface of the newly placed concrete shall be removed by approved means and no further concrete shall be placed thereon until such water is removed. No fresh concrete shall be brought into contact with the concrete containing cement of different types. Unless otherwise approved or instructed, concrete shall be placed in a single operation to the full depth of slabs, beams, and members similar thereto and shall be placed in horizontal layers not exceeding 0.50m deep in walls, columns until completion of the part of the work between construction joints as specified hereafter or of a part of approved extent. At the completion of a specified or approved part of a construction, joints of the form and in the position herein after specified shall be made. If a temporary cessation of concrete placing be unavoidable elsewhere, a construction joint shall likewise be made.

6.3.10 Protection and Curing of Concrete

Immediately after placing or finishing, concrete surfaces not covered by forms shall be protected from loss of surface moisture for at least seven days when the average daily temperature is at least 21C⁰, where Portland cement has been used. Protection from loss of surface water shall be done by any of the following methods where applicable to the type of work involved:

- i) By water covering.
- ii) By covering surfaces with water impervious paper.
- iii) By application of approved impervious membrane.

Surfaces from which forms have been removed before the curing period has elapsed shall be protected as specified for surfaces not covered by forms. Membrane curing shall not be used on surfaces required to receive additional concrete or concrete fill, or on cement finish costs that are to receive dust proofing or hardening treatments, or during hot weather.

Water curing shall be performed by keeping the concrete surface wet by ponding, by continuous spraying or by covering the surface with an approved water-saturated covering such as 2.5 mm. of sand or sawdust, or by one or more layers of burlap. The exposed concrete surfaces shall be saturated with water throughout the full stipulated curing period. Where forms remain in place during the curing period, they shall be kept sufficiently wetted with clean water to reduce cracks and to prevent joints from opening in the forms.

7. BAR REINFORCEMENT

7.1 Installment of Reinforcement Steel

Supplying and fixing tor steel reinforcement in RCC work including bending, binding with GI wire, placing in position including the cost of binding wire, as per drawing

Reinforcement shall be free from pitting due to corrosion, loose rust, mill scale, paint, oil, grease, adhering earth, or other materials that may impair the bond between the concrete and the reinforcement or that may in the opinion of the Employer/ Engineer cause corrosion of the reinforcement or disintegration of the concrete.

7.2 Bar Reinforcement

Bar reinforcement described as "TOR steel" shall be hot rolled deformed bars or cold twisted steel bars. With respect to manufacture, quality, physical properties and related requirements and reinforcement of mild steel and tor steel.

7.3 Certificates and Tests for Reinforcement

For each consignment of bar reinforcement used in the works, the Contractor shall, if required, supply a certificate giving the ultimate strength, yield stress and elongation and the result of the cold bend test for each type and each size of bar.

The reinforcements supplied for which the Manufacturer's test sheets or other records are not available, or where in the opinion of the Employer/ Engineer has been subject to corrosion or other bad effects, the Employer/ Engineer shall select as many test pieces as he deems necessary, and the Contractor shall supply and deliver the test pieces free of cost without reimbursement and pay the cost of preparing and testing them as well. This test shall be performed in the presence of the Employer/ Engineer.

7.4 Dimensions of Reinforcement

The size of reinforcement bar described in the working drawings or elsewhere shall be the minimum and the rolling margin and other tolerances shall be wholly above this size. The length of a reinforcement bar shall not be less than the length on the drawing or elsewhere and shall not be more than 50 mm in excess of that length. Bar bending schedule shall be prepared by the Contractor and submitted for approval of the Employer/ Engineer. Such schedules should be prepared based on reinforcement details prior to the execution of the work. Nothing extra shall be paid for this.

7.5 Bending Reinforcement

Reinforcement bars shall be bent by approved means producing gradual and even motion. Bars shall comply with the dimensions described in the drawings. Overall dimensions of bent or internal dimensions of bending or the like shall be within a tolerance of 30 mm. Any discrepancies or inaccuracies found by the Contractor in the drawings or other documents shall be immediately reported to the Employer/ Engineer whose interpretation and requirements relating thereto shall be accepted. The internal radius of bends shall be not less than twice the size of the bars unless described to the contrary on the bending lists or elsewhere in the drawing. Hooks and other anchorage bends for tor steel shall be bent to an internal radius of the twice diameter of the bar. This internal radius of the bends of corners of binders or stirrups or links shall be half.

7.6 Fixing Reinforcement

Reinforcement shall be accurately fixed and by approved means maintained in the position described in the drawings. Bars intended to be in contact shall be securely wired together at all such points with 16-gauge soft iron tying wire. Binders, stirrups and links shall tightly embrace the bars with which they are intended to be in contact and shall be securely wired or, if approved, spot welded thereof.

Reinforcement shall be lapped, joined or spliced only at the positions described. Splices and the like found to be necessary elsewhere shall be formed only if and as instructed. Lapping shall be provided as shown in the drawing and as permitted. Where practicable bars in each member shall be assembled and fixed in the form of a rigid cage or skeleton before placing in the moulds or formwork. For this, all lapping bars on beams and slabs shall be scattered i.e. as far as possible minimum number of laps shall be permitted in one section of slab and only one lap will be permitted at one section in case of beams. In the case of columns, the lapping of bar shall be permitted only at the centre zone of column.

7.7 Lapping Length

- a) In the case of beams and slabs, lapping length shall be 57 dia. of designed bar.
- b) In the case of columns the lapping length shall be 47 dia. of the designed bar.

Immediately before concreting, the reinforcement shall be checked for position, cleanliness, free from rust or retarding liquid. Means shall be taken to ensure that reinforcement remains correctly in position with required cover during the placing and compacting of the concrete.

Reinforcement projecting from work being concreted or already concreted shall not be bent out or its correct position for any reason unless approved and shall be protected from deformation or other damage. Reinforcement left projecting for bending with future extensions shall be thoroughly coated with cement grout wash or encased in concrete or otherwise protected from corrosion as instructed.

8. BRICKWORK

8.1 Materials and Workmanship

8.1.1 Bricks

The bricks shall be table molded with sand from good brick earth and shall be of uniform size, unless otherwise specified. They shall be uniform deep red, cherry or copper color, thoroughly well burnt without being vitrified, regular in shape and size, and shall have sharp and square sides and edges and parallel faces to ensure uniformity in the thickness of the courses of brick work. The bricks shall be free from cracks, chips, flaws stones or humps of any kind. They shall not show appreciable signs of efflorescence either dry or subsequent to soaking in water. The bricks shall be sound, hard, and homogeneous in texture and produce a clear ringing sound when struck with a trowel. In no case, the minimum crushing strength of bricks shall be less than 1000 lbs/sq. inch. The bricks shall be provided with frogs. All bricks which absorb water more than one-sixth of their own dry weight after being soaked for one hour by immersion in water shall be rejected.

8.1.2 Brick Bats

Brick bats shall be well burnt and shall be obtained only from the bricks specified under 8.1.1.above.

8.1.3 Mortars

All brick work shall be laid with specified mortar of good workable consistency.

Cement mortar shall be prepared by mixing cement and sand in the specified proportions. The mixing shall be done in a mechanical mixer or by hand mixing as directed by Employer/ Engineer. Water shall be added as required during mixing. Care shall be taken not to add more water than what is actually needed to bring the mortar to the consistency of a stiff paste. Only the quantity of mortar, which can be used within 2 hours of its mixing shall be prepared at a time. Mortar unused for more than 2 hours shall be rejected and removed from the site of work.

8.1.4 Soaking of Bricks

All bricks required for masonry in cement mortars shall be thoroughly soaked in clean water for at least one hour in tanks of sufficient size immediately before use. The cessation of bubbles when the bricks are immersed in water is an indication of thorough soaking of bricks.

8.1.5 Laying

- a) Bricks shall be laid in English bond, unless otherwise specified. Half or cut bricks shall not be used except where necessary to complete the bond. Closer in such cases should be cut to the required size and used near the ends of the walls.
- b) The walls shall be taken up truly plumb. All courses shall be laid truly horizontal, and all vertical joints shall be truly vertical. Vertical joints in alternate courses shall come directly

one over the other. The thickness of brick courses shall be kept uniform and for this purpose straight edge with graduations showing the thickness of each brick course including joint shall be used. Bricks shall be laid with frogs upwards.

c) The walls of a structure shall be carried up regularly and nearly at one level and no portion of the work shall be left more than 3 ft. below the rest of the work. Where this is not possible, the work shall be raked back according to bond (and not left toothed) at an angle not exceeding 45 degrees.

d) All iron fixtures, pipes, outlets of water, hold fasts of doors and windows, etc. which are required to be built in walls, shall be embedded in cement mortar or in cement concrete bed as specified, in their correct positions as the work proceeds. Nothing extra shall be paid for such extra cement mortar or cement concrete to be used for embedding the fixtures of the nature stated above.

8.1.6 Joints

Bricks shall be so laid that joints are quite full of mortar. The thickness of the bed joints shall in no case exceed 10 mm unless otherwise specified. The face of joints shall be raked to a minimum depth of 10 mm by raking tool daily during the progress of work when the mortar is still green, so as to provide proper key for the plaster or pointing to be done. Where plastering or pointing is not required to be done, the joints shall be struck flush and finished at the time of laying. The face of brick work shall be cleaned daily and all mortar drippings removed.

Brick On Edge Coping

The top course of all plinths, parapets, steps and tops of walls below R.C.C. slabs or beams shall be laid with brick on edge, unless otherwise specified. Proper care shall be taken that the bricks forming the top corners and ends of walls shall be properly radiated and keyed into position.

8.1.7 Curing

Green work shall be protected from rain by suitable covering. Brick masonry with cement mortar shall be kept constantly moist on all faces for a minimum period of 7(seven) days.

8.1.8 Protection

Where exposed to weather, protect top of masonry with water tied material in such a way that it will protect the completed work. Masonry wall shall set for 48 hours before any load is applied on the completed work.

8.2 Brickwork in Foundation and Plinth

Chimney made brick work in foundation and plinths in cement mortar 1:4 (1cement:4 sand). All the work shall be done as per specification in clause 8.1

8.2.1 Measurements

The measurements of work shall be the product of the length, height and thickness. Deductions for doors, windows and other openings including lintels shall be made to arrive at the net quantity of work. Nothing shall be paid extra for forming such openings. However, no deductions shall be made for areas less than 0.1 sq.m. overall, bearing of lintels, beams, girders and holdfast blocks but nothing extra like formwork shall be paid for embedding these. Unless otherwise specified nothing extra shall be admissible for cutting in brickwork

or brick to suit RCC structures, walls in any shape other than straight or any cutting necessary for shaping the walls to the structural design. Rate shall be inclusive of providing weep holes of PVC pipes and all necessary scaffolding, watering, cutting of bricks, curing, materials and labour.

8.3 Brickwork in Superstructure

Chimney made first class brick work in super structure in cement mortar 1:4 (1 cement: 4 sand)

All the work shall be done as per specification in clause. 8.1.

8.3.1 Scaffolding

Double scaffolding having two sets of vertical supports shall be provided. The supports shall be sound and strong, tied together with horizontal pieces over which the scaffolding planks shall be fixed. In buildings up to two stories, single scaffolding shall be allowed. In this case, the inner end of the horizontal scaffolding pole shall rest in a hole provided in the header course only. Only one header for each pole shall be left out. The holes left in masonry work for supporting the scaffolding shall be filled and made good, before plastering. The contractor shall be responsible for providing and maintaining sufficiently strong scaffolding so as to withstand all loads likely to come upon it.

8.3.2 Measurement

It shall be done as specified in clause 8.1 inclusive of scaffolding.

9. CEMENT PLASTER WORKS

9.1 Cement Sand Plastering on Walls in Cement Sand (C/S) Mortar (1:4)

9.1.1 Scaffolding

For plastering work on walls, unless otherwise specified, double scaffolding having two sets of vertical support shall be provided. The Contractor shall be responsible for providing and maintaining sufficiently strong scaffolding so as to withstand all loads likely to come upon it.

9.1.2 Mortar

The type of mortar mix to be used shall be as specified in the description of the item.

9.1.3 Workmanship

All joints in the masonry shall be raked out properly to a minimum depth of 1/2". Dust and mortar shall be brushed out. The surface shall then be thoroughly washed with water, cleaned and kept wet before plastering commences. The thickness of the plaster shall be as specified. The plaster may be applied in 1, 2 or 3 coats as specified or as directed by the Employer/Engineer, but no single coat shall exceed 1/2" thickness.

Ceiling plaster shall be completed before the commencement of wall plaster. All wall plaster shall start from the top and work down towards floor.

Gauges of plaster 6" x 6" shall be first applied horizontally and vertically, at no more than 6 ft. intervals over the entire surface to serve as guides for plastering and to ensure even thickness and a true surface. The surfaces of these gauged areas shall be truly in the plane of the finished plaster surface. The surface shall be finally given the type of finish as specified in the description of the item or as directed by the Employer/ Engineer. All corners, arises, angles and junctions shall be truly vertical or horizontal as the case may be and shall be carefully finished. Rounding or chamfering corners, arises, junctions etc. where required shall be done without any extra payment.

In suspending work at the end of the day, the plaster shall be left, cut clean to line both horizontally and vertically. The work shall be closed on the body of the wall and not nearer than 6" to any corners on arises. When recommencing, the edge of the old work shall be scraped clean and wetted before plaster is applied to the adjacent areas.

Curing shall be started 24 hours after finishing the plaster. The plaster shall be kept wet for a minimum period of 7 days. The dates of plaster shall be legibly marked on the various sections of the wall so that curing for the specified period thereafter can be watched. Any cracks which appear in the surface and all portions, which sound hollow when tapped or are found to be soft or otherwise defective, shall be cut out in rectangular shape and redone as directed by the Employer/Engineer.

9.1.4 Measurement

It shall be done in square meters of the surface over which the plaster has been done. The thickness of the plaster shall not be considered except for independent columns where the measurement shall be of finished surface allowing 12mm over the designed dimensions. Opening shall be deducted in full, and jambs and soffits shall be allowed. Openings less than 1 sq.m shall not be deducted and nothing extra shall be paid for finishing jambs, soffits and the sides of such openings. Unless otherwise specified, nothing extra shall be allowed for plaster on independent columns and beams, short with or on curved surface.

10. PAINTING WORKS

10.1.General

All paints shall be approved by the Employer/ Engineer, ready mixed paints as received from the manufacturer without any admixture shall be used. If thinner is necessary in the case of ready mixed paints, the same shall be recommended by the manufacturers.

The Contractor shall bring all the approved paints to the site of work in their original containers in sealed condition. Paints which will be sufficient for the entire work or at least for a fortnight's work shall be brought in at a time. The empties shall be removed from the site only when the item of work has been completed and permission obtained from the Employer/ Engineer. Painting shall be started only when the Employer/ Engineer has inspected the items of work to be painted, satisfied himself with their proper quality and given his approval to commence the painting work. Painting, except the priming coat, shall be taken in hand only after all the other builder's work is practically completed. The rooms shall be thoroughly swiped out and the entire building cleaned up at least one day in advance of the paintwork being started.

The surface to be painted shall be thoroughly cleaned and dusted. All rust, dirt, scales, grease etc. shall be removed before painting is started. The prepared surface shall be approved by the Employer/ Engineer before painting work can commence.

The painting shall be thoroughly stirred in their original containers before pouring them into smaller tins for use. While applying also, the paint shall be continuously stirred in the smaller tins so that the consistency is kept uniform. If required, a thinner shall be used to bring the

paint to the required consistency. Two or more coats of painting shall be done either with brushes or by spraying as stipulated in the item of work.

Each coat shall be allowed to dry out thoroughly before the next coat is applied. Each coat except the last coat, shall be thoroughly rubbed down with sandpaper or fine pumice stone and cleaned of dust before the next coat is applied. The finished surface shall present a smooth and even surface without any hair marks from the brush or clogging of paint puddles. While painting doors and windows, the putty round the glass panes shall also be painted and care being taken to see that no paint stains etc. are left on the glass. Tops of shutters and other similar hidden locations shall not be left out in painting.

All painting work shall be measured in sq.m unless otherwise specified. In measuring painting of joinery and steel work, etc. Unless otherwise specified in the description of the item. All furniture, fixtures, glazing, floors etc. shall be protected by covering and stains, smears, splashing if any shall be removed and any damage done shall be made good by the Contractor at his own cost. The rate shall include the cost of all labour and materials involved in all the operations described above and any other specifications given under the relevant it.

10.2. Priming Coat

The priming coat shall be as specified in the description of the item. The primer shall be prepared at site or ready-made paint of approved brand and manufacture. At site, the surface shall be prepared to receive priming coat as follows:

10.2.1. Iron and Steel Works

All rust and scales be removed by scraping or by brushing with steel wire brushes. All dust and dirt shall be wiped away from the surface. If the surface is wet, it shall be dried before the priming coat is applied.

10.2.2. Plastered Surface

Ordinarily, the surface shall not be painted until it has dried completely. Trial patches or primers shall be laid at intervals and when drying is satisfactory, painting shall be taken in hand. Before primer is applied, all holes and undulations shall be filled up with plaster of Paris and rubbed smoothly. When the surface to be primed is finally Okayed, the primer shall be applied with brushes, worked well into the surface and spread even and smooth.

10.3. Weather Coat Paint

Painting two coats with Weather Coat paint on plastered surface including primer coat.

10.3.1. Material

The weather coat paint shall be of approved quality and make, and it shall be of approved quality and make and it shall be of approved color and shade. The contractor shall bring them to the site in original airtight containers with seals intact.

10.3.2. Workmanship

The dry cement paint shall be thoroughly mixed with clean fresh water so as to produce paint of the required consistency which for normal work shall be that of ordinary paint. In mixing and application, the Contractor shall follow the manufacturer's instructions. Paint for application by brush shall be strained through paint strainer. The paint shall be kept stirred and used within the specified time of the manufacturer. Hardened or damaged paint shall not be used.

The paint shall be applied by means of brushes and in the manner specified by the manufacturer. The number of coats shall be as mentioned in the item. The subsequent

coats shall be applied after the preceding coat is properly cured and has thoroughly hardened, inspected and approved and as per manufacturer's specification. Absorbent surface shall be evenly damped so as to give even suction. In dry weather, freshly painted surfaces shall be kept damp for at least two days and protected from direct sun.

10.3.3. Measurement

The work shall be measured in sq.m of the finished area. The rate shall include the cost of all labour and materials involved in all the operations described above.

Measurement shall be as follows:

Description of works	Measurement	Multiplying coefficient
Flush door	Flat including frame	1.0 each side
Fully paneled	Flat including frame	1.5 each side
Fully glazed	Flat including frame	0.5 each side
Part panel/part glazed	Flat including frame	1.4 each side
Railing with balusters, guard bars all over-		1.0 for painting

10.4. Ready Mixed Paint

All ready mixed paints shall be of approved brand and manufacture and of the required shades. The different surfaces to be painted shall be prepared in the same way as described under "Painting priming coat on wood, iron or plastered surface". The priming coat shall be dried up completely before painting is started. The number of coats to be applied shall be as stipulated in the description of the item. The painted surface shall present a uniform appearance and glossy finish, free from streaks, blisters, etc.

Measurement

Measurement shall be in accordance with clause 14.3.3. The rate shall include the cost of all labour and materials involved in all the operations described above.

10.5. Synthetic Enamel Paint

Approved make synthetic enamel paint with the required shade shall be used for the top coat and an under coat of shade to match the top coat as recommended by the manufacturer shall be used. The number of coats including the under cost shall be as stipulated in the description of the item.