

APPENDIX – 04:
MISCELLANEOUS DATA

LOT 1: GTPS KOTRI (174MW)

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
	Gas Turbine No.		1		
1	Gas Turbine No. Make: CIE Electro Mecaique France	Type: 9D reaction type Simple cycle, Industrial Heavy Duty ,4 stage, 15MW, Speed: 4473 rpm	1	Mechanical	Turbine: 58000 kg Combustion chamber : 10000 kg Reduction gear block : 34000 kg Length of Block 5.5 meter width of Block 3.2 meter Height of Block 3.7 meter
2	Compressor Unit	Type:9 ,Stages 15	1		Total wt: 59000
3	Generator Make: CIE Electro Mecaique France	Type: WY 14 L-061 LL 4 Manufac: No. 632381163281-1 Capacity: 30250kVA Rated Speed: 3000 rpm Rated Voltage: 11.5 kV ± 5% Output: 38,800 kVA Cylindrecal Rotor type with Air Cooled	1	Electrical	Stator:47500 kg Rotor: 12300 kg Wt of accessories (coolers & bearings) : 36000 kg Total wt: 63900 kg Length : 5.86 meter widht : 2.45 meter Height: 3.10 meter
4	Unit Transformer Make: CEM FRANCE	Type: 1STHP3 Rating 500kVA Phase.	03 1	Electrical	Core & Winding: 25000 Tank and Accessories:20000
5	Aux: Transformer Make: CEM FRANCE	Rating 15/20 MVA Voltage: 132/10.5 KV	1	Electrical	Total wt:2500
6	Exciter	Type : WBT 74/8-20 A 2 output: 160kw continues	1	Electrical	Total wt: 1200kg
7	Starting Motor	Type Squral Cage Output:600kw	1	Electrical	Total wt: 3600kg
8	Fuel Forwarding Motor Pump	Type Centrifugal , Stage-1 Power 14.8kw	1	Electrical	Total wt: 390kg
9	Turbine Fuel Feeding Motor Pump	Type Screw IMO Power :78kw	1	Electrical	Total wt: 1800kg
10	Fuel Leakage Motor Pump	Type Screw IMO Power :1.3kw	1	Electrical	Total wt: 52kg
11	Lube oil piping		1	Mechanical	Total wt: 1540kg
12	Auxiliary oil Motor pump		1	Electrical	
13	Motor Lube Oil (AC)	Type: 03 phase induction motor Output:22.8kW	1	Electrical	Total wt: 300kg
14	Motor Lube Oil (DC) Generator Side	Type: MC 168454, 03 phase induction motor Output:2.6kW	1	Electrical	Total wt: 78kg
15	Motor Lube Oil (DC) Turbine Side	Type: MC 168454, 03 phase induction motor Output:2.6kW	1	Electrical	Total wt: 78kg
16	Condenser Lube Oil Motor	Type: L 514607, 03 phase induction motor Output:2.6kW	1	Electrical	Total wt: 51kg
17	Barring Gear Motor	Type: 4N2856, 03 phase induction motor Output:1.88kW	1	Electrical	Total wt: 68kg
18	Gas valves Motor	Type: 03 phase induction motor Output:.0.5HP	1	Electrical	Total wt: 10kg

GAS TURBINE POWER STATION KOTRI

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19	Falme Detector Fan Motor	Type: 03 phase induction motor Output:.0.5HP	1	Electrical	Total wt: 10kg
20	Ignition Rod Motor	Type: 03 phase induction motor Output:.0.115HP	1	Electrical	Total wt: 03kg
21	HP Pump Motor	Type: 03 phase induction motor Output:10HP	1	Electrical	Total wt: 30kg
22	Rotor Cooling Fan Motor	Type: 03 phase induction motor Output:10HP	1	Electrical	Total wt: 30kg
23	CW Pump Motor	Type: 03 phase induction motor Output:40HP	1	Electrical	Total wt: 350kg
24	HSD Valve Opening / Closing Motor	Type: 03 phase induction motor Output:0.32kw	1	Electrical	Total wt: 06kg
25	HSD Return Pump Motor	Type: 03 phase induction motor Output:0.70kw	1	Electrical	Total wt: 08kg
26	Filter Rolling Motor	Type: 03 phase induction motor Output:03HP Qty:02	1	Electrical	Total wt: 25kg
27	CW Cooling Fan Motor	Type: 03 phase induction motor Output:10.3HP	1	Electrical	Total wt: 38kg
28	Main Oil Pump (Shaft Driving)		1	Electrical	Total wt: 1800kg
29	Auxiliary Equipment for Generator		1	Electrical	
30	Motor Main Lube Oil Pump	Type: 03 phase induction motor Sr No.L497371 Output:12kW		Electrical	Total wt: 240kg
31	Load Reduction Gear	Type & Model: Single Hermal VF 56R (Vertically off-set) Manufact: No. Unit No.5 2529 Unit. No.06 2530 Power to be Transmitted: 28000kW Max Power: 31000kW Primar Speed: 5100RPM Secondary Speed: 3000RPM Exact Reducion : 1/1.7115 Make: CIT ALCATEL, FRANCE	1	Mechanical	Total wt: 8000kg
32	Air intake		1	Mechanical	Total wt:
33	SSS CLUTCH	Type & Model: SL13858 Make: SSS Gear Ltd England	1	Mechanical	Total wt: 5000kg
34	Barring Gear Device		1	Mechanical	Total wt: 600kg
35	Hydrolic Converter Make:Voith, Germany	R(L) 16xyFG	1	Mechanical	Total wt: 3500kg
36	Exhaust Gas Duct		1	Mechanical	Total wt: 3000kg
37	Exhuast Diffuser		1	Mechanical	Total wt: 6050kg
38	Exhuast Stake (Under part)		1	Mechanical	Total wt: 13390kg
39	Exhuast Stake (Middle part)		1	Mechanical	Total wt: 8200kg
40	Exhuast Stake (Upper part)		1	Mechanical	Total wt: 13460kg
41	Piping & Instrumentaion		1	Mechanical	Total wt: 100000kg
42	Steel Structure (Column)	Qty: 30	1	Mechanical	Total wt: 250000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
43	Beam	Qty: 40	1	Mechanical	Total wt: 200000kg
44	Roof Structure		1	Mechanical	Total wt: 150000kg
45	Overhead Crane (Accessories)	Qty: 01 Capacity:16000kg	1	Mechanical	Total wt: 25000kg
46	Overhead Crane Track (Column & Beam)		1	Mechanical	Total wt: 100000kg
47	Control Panels		1	Mechanical	Total wt:10000kg
48	Foundation		1	Mechanical	Total wt:350000kg

GAS TURBINE POWER STATION KOTRI

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	Gas Turbine No.				
1	Gas Turbine No. Make: CIE Electro Mecaique France	Type: 9D reaction type Simple cycle, Industrial Heavy Duty ,4 stage, 15MW, Speed: 4473 rpm	2	Mechanical	Turbine: 58000 kg Combustion chamber : 10000 kg Reduction gear block : 34000 kg Length of Block 5.5 meter width of Block 3.2 meter Height of Block 3.7 meter
2	Compressor Unit	Type:9 ,Stages 15	2		Total wt: 59000
3	Generator Make: CIE Electro Mecaique France	Type: WY 14 L-061 LL 4 Manufac: No. 632381163281-1 Capacity: 30250kVA	2	Electrical	Stator:47500 kg Rotor: 12300 kg Wt of accessories (coolers
4	Unit Transformer Make: CEM FRANCE	Type: 1STHP3 Rating 500kVA Phase.	2	Electrical	Core & Winding: 25000 Tank and Accessories:20000
5	Aux: Transformer Make: CEM FRANCE	Rating 15/20 MVA Voltage: 132/10.5 KV	2	Electrical	Total wt:2500
6	Exciter	Type : WBT 74/8-20 A 2 output: 160kw continues	2	Electrical	Total wt: 1200kg
7	Starting Motor	Type Squral Cage Output:600kw	2	Electrical	Total wt: 3600kg
8	Fuel Forwarding Motor Pump	Type Centrifugal , Stage-1 Power 14.8kw	2	Electrical	Total wt: 390kg
9	Turbine Fuel Feeding Motor Pump	Type Screw IMO Power :78kw	2	Electrical	Total wt: 1800kg
10	Fuel Leakage Motor Pump	Type Screw IMO Power :1.3kw	2	Electrical	Total wt: 52kg
11	Lube oil piping		2	Mechanical	Total wt: 1540kg
12	Auxiliary oil Motor pump		2	Electrical	
13	Motor Lube Oil (AC)	Type: 03 phase induction motor Output:22.8kW	2	Electrical	Total wt: 300kg
14	Motor Lube Oil (DC) Generator Side	Type: MC 168454, 03 phase induction motor Output:2.6kW	2	Electrical	Total wt: 78kg
15	Motor Lube Oil (DC) Turbine Side	Type: MC 168454, 03 phase induction motor Output:2.6kW	2	Electrical	Total wt: 78kg
16	Condenser Lube Oil Motor	Type: L 514607, 03 phase induction motor Output:2.6kW	2	Electrical	Total wt: 51kg
17	Barring Gear Motor	Type: 4N2856, 03 phase induction motor Output:1.88kW	2	Electrical	Total wt: 68kg
18	Gas valves Motor	Type: 03 phase induction motor Output:.0.5HP	2	Electrical	Total wt: 10kg
19	Falme Detector Fan Motor	Type: 03 phase induction motor Output:.0.5HP	2	Electrical	Total wt: 10kg
20	Ignition Rod Motor	Type: 03 phase induction motor Output:.0.115HP	2	Electrical	Total wt: 03kg

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21	HP Pump Motor	Type: 03 phase induction motor Output:10HP	2	Electrical	Total wt: 30kg
22	Rotor Cooling Fan Motor	Type: 03 phase induction motor Output:10HP	2	Electrical	Total wt: 30kg
23	CW Pump Motor	Type: 03 phase induction motor Output:40HP	2	Electrical	Total wt: 350kg
24	HSD Valve Opening / Closing Motor	Type: 03 phase induction motor Output:0.32kw	2	Electrical	Total wt: 06kg
25	HSD Return Pump Motor	Type: 03 phase induction motor Output:0.70kw	2	Electrical	Total wt: 08kg
26	Filter Rolling Motor	Type: 03 phase induction motor Output:03HP Qty:02	2	Electrical	Total wt: 25kg
27	CW Cooling Fan Motor	Type: 03 phase induction motor	2	Electrical	Total wt: 38kg
28	Main Oil Pump (Shaft Driving)		2	Electrical	Total wt: 1800kg
29	Auxiliary Equipment for Generator		2	Electrical	
30	Motor Main Lube Oil Pump	Type: 03 phase induction motor Sr No.L497371 Output:12kW	2	Electrical	Total wt: 240kg
31	Load Reduction Gear	Type & Model: Single Hermal VF 56R (Vertically off-set) Manufact: No. Unit No.5 2529 Unit. No.06 2530 Power to be Transmitted: 28000kW Max Power: 31000kW Primar Speed: 5100RPM Secondary Speed: 3000RPM Exact Reducion : 1/1.7115 Make: CIT ALCATEL, FRANCE	2	Mechanical	Total wt: 8000kg
32	Air intake		2	Mechanical	Total wt:
33	SSS CLUTCH	Type & Model: SL13858 Make: SSS Gear Ltd England	2	Mechanical	Total wt: 5000kg
34	Barring Gear Device		2	Mechanical	Total wt: 600kg
35	Hydrolic Converter Make:Voith, Germany	R(L) 16xyFG	2	Mechanical	Total wt: 3500kg
36	Exhaust Gas Duct		2	Mechanical	Total wt: 3000kg
37	Exhuast Diffuser		2	Mechanical	Total wt: 6050kg
38	Exhuast Stake (Under part)		2	Mechanical	Total wt: 13390kg
39	Exhuast Stake (Middle part)		2	Mechanical	Total wt: 8200kg
40	Exhuast Stake (Upper part)		2	Mechanical	Total wt: 13460kg
41	Piping & Instrumentaion		1	Mechanical	Total wt: 100000kg
42	Steel Structure (Column)	Qty: 30	2	Mechanical	Total wt: 250000kg
43	Beam	Qty: 40	2	Mechanical	Total wt: 200000kg
44	Roof Structure		2	Mechanical	Total wt: 150000kg
45	Overhead Crane (Accessories)	Qty: 01 Capacity:16000kg	2	Mechanical	Total wt: 25000kg
46	Overhead Crane Track (Column & Beam)		2	Mechanical	Total wt: 100000kg
47	Control Panels		2	Mechanical	Total wt:10000kg
48	Foundation		2	Mechanical	Total wt:350000kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
1	Gas Turbine No.244870 Make: Thomassen Holland B.V	Model:PG.5341P Simple Cycle Industrial Heavy Duty 2 stage 25MW	3	Mechanical	Total wt:85000kg
2	Generator Make: Smit Slikkerveer Holland B.V	Type: DTG.175/200/80 Rated Voltage: 11kV Rated Amp: 1404A Rated Power: 11kW Rated Powerfactor: 0.8 Air Cooled with Brushless Excitation System	3	Electrical	Stator:37000kg Rotor: 11500kg Dimension: Stator Overall: Length: 9800mm Width: 3350mm Height: 3820mm Rotor: 800x2000 mm
3	Brushless Exciter with PMG Make: Brush Electric Machine Ltd Thomassen Holland B.V	Rect: DC kW = 150 Max: Rect: DC Volts = 205 Rect: DC Amps = 497 RPM = 3000 Exct : Volts = 28 Exct: Amp: = 61 Phases : 03 Frame = BXJ Dated: 1978 Machine No. = 7578 Ratiung = Continuous Spec: = IEC 3Z - 1 Amb: Temp: = 15°C. Altitude = upto 1000 m	3	Electrical	Exciter stator: 800 kg Bearing pedestal:800 kg
4	UNIT TRANSFORMER (MAKE: SMIT HOLLAND)	Rating: 25/31.5 MVA Voltage: 132/11 KV	3	Electrical	Winding: 45000 kg Tank & Acc:20000 kg T/F Oil.10000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
5	Unit Auxiliary Transformer Make: Lepper-Dominit	Type: DOH 630/11 Rating: 630kVA Ratio: 11000/420 with $\pm 2\frac{1}{2}$ % and ± 5 % Taps Nominal Freq:50Hz Cooling: ONAN	3	Electrical	Dimensions: Length: 1680mm Width: 980mm Height: 1650mm Total Weight 3500kg
6	OIL FILTER HILCO HYFLOW.	Model No.: 19 & 12. Serial No. : 570930-6-754- 6876. G.E Part No. : 26A1255-5 Max Working Pressure : 120 PSI. Use Converter Gasket : FB- 4635-11 Qty: 02 Nos Made by VC 08192 : HILLIARD Corp: Elmira, New York, USA	3	Mechanical	Total Weight 15kg
7	OIL FILTER TRANSFER VALVE.	Model No.: 140188.. Serial No. : 77-160. Pressure : 120 Psi. Maximum Temperature : 250°C. No. : CE2/215794P022. Qty: 02 Nos Company : NEMCO.	3	Mechanical	Total Weight 50kg
8	HYDRAULIC TORQUE CONVERTER	Model No.: 4 SGE-1607-2 Serial No. : 282443 Specific Torque: 600. Spec. No. 62940. Qty: 02 Nos Make: TWIN DISC Incorporated USA.	3	Mechanical	Total Weight 5000kg
8	OIL FILTER HILCO HYFLOW.	Model No.: F1-3ESS Serial No. : 486053-6N- 8736977-1 G.E Part No. : 718C413-63 Max Working Pressure : 150 PSI. Use Converter Gasket : FB- 4635-11 Qty: 02 Nos Made by: VC 08192 : HILLIARD Corp: Elmira, New York, USA.	3	Mechanical	Total Weight 15kg
9	CARLSON / HILCO MICRONIC FILTER	Type.: F1-1E Serial No. : F-602 Cartridge: PL-718-B6 Cover Bolt Torque: 75 FT-LBS Qty: 02 Nos Made by: CARLSON FORD LTD, USA.	3	Mechanical	Total Weight 10kg
10	FUEL OIL PUMP.	G.E Drawing No. : 235A5998 Part No. : 01 Serial No. : V495. Type : 04 Qty: 02 Nos Speed : 2951 rpm (Make : USA)	3	Mechanical	Total Weight 700kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
11	ACCESSORY GEAR BOX.	Reference : Thomson 3030 Type : A519AA1EJ No. : 1944 Year 1977. Power : 120 kW Speed: 5100 / 3582.6 rpm. Qty: 02 Nos Pressure : 1.7 Bar.	3	Mechanical	Total Weight 3000kg
12	GT COOLER LINE (INLET/OUTLET VALVES (DISTEL WATER).	DN : 150 mm PN : 10 bar Qty: 02 Nos Make : China	3	Mechanical	Total Weight 50kg
13	RAW WATER COOLING LINE WATER	DN : 150 mm PN : 10 bar Qty: 02 Nos Make : China	3	Mechanical	Total Weight 150kg
14	BLEED VALVE ASSEMBLY.	Size : 6" (150 mm) Maximum Temperature : 350°C. Minimum Temperature : 200 °C. Operating Pressure : 9.5 Kgf / cm ² . Maximum Pressure : 11.6 Kgf / cm ² . Serial No. : 3G9218-2. Qty: 04 Nos Make : YAKAKITO, SEISAKOSHO, Japan.	3	Mechanical	Total Weight 200kg
15	Radiator Cooling Fan	Equipment No. HX-02 New Project No. S-0160 New DRG No.E-0167.REV.1 Shell Pressure: 793KPa at 80°C Tube Pressure: 483KPa Qty: 03 Nos on each GT. Make. Pakistan Atomic Energy Commission Pakistan.	3	Mechanical	Total Weight 600kg
16	Air cooler	Single tube type		Mechanical	Total wt:1600 kg
17	Acoustic enclosure			Mechanical	Total wt:6500 kg Dimesnion: L = 11 meter w = 3.855 meter h = 3.3/5.32 meter
18	Base plate of Alternator		3		Total wt:19000 kg
19	Reduction Gear Box (including SSS clutch)	Type: Single reduction gear box Speed Ratio : 5100/3000 rpm provided with 04 doors, CO2 nozzels	3	Mechanical	Total wt:9000 kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
20	BLOW DOWN TANK (HRSG No.3,4, 5&6)	Volume: 22m Design Pressure: 9 bar Working Pressure: 0.2bar Test pressure: 12bar Design Temperature: 480C Working Medium: Water & Steam Manufacturing date: 12/1992 Serial No.Z-021 Qty: 02 Nos Make: Harbin Boiler Works,	3	Mechanical	Total weight 15000kg
21	Piping and instrumentation		3		Total wt:60000kg
22	Control Panels		3		Total wt:15000kg
23	Accessories of Blow Down Tank		3		Total Wt:706.53kg
24	HEAT RECOVERY STEAM GENERATOR (HRSG).	Type : HG-f16968-GT1. Maximum Allowable Working Pressure : 54.3 BarA. Heating Surface Area : 16968 m ² . Rated Steam Generating Capacity : 44.88 Ton/hr. Design Temperature : 515°C. Manufacturing Serial No. 2169. Built Date : 05/1993 Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	3	Mechanical	Total Wt:
25	BOILER DRUM (HRSG).	Service Pressure : 50 Bar A. Design Pressure : 54.3 Bar. Test Pressure : 81 Bar A Design Temperature : 269°C Service Temperature : 264°C Test Temperature : 81°C Code : ASMI 70002/2168/9/1992. Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	3	Mechanical	Total Weight 150000kg
26	HP Economizer Assembly		3	Mechanical	
27	Header HP Economizer inlet and outlet	Qty: 02 Nos DRG: NO.U301.150K	3	Mechanical	Total wt:436 kg
28	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 576 Nos	3	Mechanical	Total wt:22694.4 kg
29	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 12 Nos	3	Mechanical	Total wt:2851.2kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
30	TUBE SHEETS	DRG: NO. U301.140K Qty: 12 Nos	3	Mechanical	Total wt:2524.8 kg
31	LP Evaporator Assembly	Drawing No. 70002/K/21790 In header LP Evaporator, Out header LP Evaporator, finned tubes, Return Bands, Head Lock, Header Connection, Plate Qty (1+1+216+108+12+72+72 +72+1+1+1+1+32)	3	Mechanical	Total wt:15760.88 kg
32	Header Connection, Lock, Tube Bend, Plate		3	Mechanical	Total wt:712.08 kg
33	HP 2 Evaporator Assembly		3	Mechanical	
34	Out Header HP Evaporator	DRG: NO. U301-149K Qty: 01 No	3	Mechanical	Total wt:403 kg
35	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 432 Nos	3	Mechanical	Total wt:18187.2 kg
36	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	3	Mechanical	Total wt:4568.4 kg
37	Header Connection, Tube Sheets, Return bends		3	Mechanical	Total wt:2872.88 kg
38	HP 1 Evaporator Assembly		3	Mechanical	
39	In Header HP Evaporator	Dia: 219mm, Thickness:15mm, Qty: 01 No. DRG NO-U301- 148K	3	Mechanical	Total wt:413.5kg
40	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	3	Mechanical	Total wt:4568.4kg
41	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 540 Nos	3	Mechanical	Total wt:22734kg
42	Return bends	Dia: 31.8mm, Thickness: 3.2mm, Qty.(36+36+36+180+180+1 80) Nos	3	Mechanical	Total wt:1231.2kg
43	Header Connection, Lock, Tube Sheets, Plate	Qty: (1+1+12+3+32)	3	Mechanical	Total wt:4847.88kg
44	Situation Boxes and Expansion Joints		3	Mechanical	Total wt:500kg
45	Closed boxe and Expansion Joints	DRG: NO. U301.539K Qty: (1+3+3+1+2) Nos	3	Mechanical	Total wt:501.3kg
46	Closed boxe	Qty: 04 Nos	3	Mechanical	Total wt:316.6kg
47	Inlet Header HP Evaporator		3	Mechanical	
48	Shell	Dia: 29x15 Length.3018mm. Qty: 01 No	3	Mechanical	Total wt:227.8kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
49	Fixed plate	Length into Breadth: 50x70 Qty: 04 Nos	3	Mechanical	Total wt:02kg
50	Tube	Dia.31.8x3.2 Qty:108 Nos	3	Mechanical	Total wt:162kg
51	Flat	Qty: 01 No, DRG No.U301.184K	3	Mechanical	Total wt:10.7kg
52	Outlet Header LP Evaporator	DRG No 70002/k/21789			
53	Shell	Dia: 325x13, Length:3818 mm Qty: 1	3	Mechanical	Total wt:301.9 kg
54	Flat	Qty : 1	3	Mechanical	Total wt:16.9 kg
55	Tube	Dia 38x2.9 mm Qty : 108	3	Mechanical	Total wt:147.6 kg
56	Internal of Drum (Section E-E)	Drawing No. 70002/K/21713	3	Mechanical	Total wt:500.34 kg
57	Internal of Drum (Section A-A, B-B, D-D)	Drawing No. 70002/K/21714	3	Mechanical	Total wt:400kg
58	General Arrangement of Steam Drum	Drawing No. 70002/K/21700	3	Mechanical	
59	Shell	Dia 1876x38 Length : 2250 m Qty: 02	3	Mechanical	Total wt:7671 kg
60	Head, Access Door Anti-seismic Block	DRG No. U301.018K (Qty : 1+3+1+1+1+3+11+1+1+1+1 +2)	3	Mechanical	Total wt:3612 kg
61	Nozzels		3	Mechanical	Total wt:338.54 kg
62	Drum Hanger & Guide	Drawing No. 70002/K/21813 (Clamping, Pin, Tie Plate, Hanger, Cone wahser, Spherical Washer, Nutt, Guide-1&2)	3	Mechanical	Total wt:680.704 kg
63	Closed Boxe & Expension Joints	Drawing No. 70002/K/16179 Closed plate, plate, web, plate, plate, expension joits, screws	3	Mechanical	Total wt:49.73 kg
64	Closed Boxe & Expension Joints	Drawing No. 70002/K/16180 Closed plate, plate, web, plate, plate, expension joints, screws	3	Mechanical	Total wt:53.33 kg
65	Closed Boxe & Expension Joints	Drawing No. 70002/K/16181 Closed plate, plate, web, plate, plate, expension joints, screws	3	Mechanical	Total wt:57.57 kg
66	Closed Boxe & Expension Joints	Drawing No. 70002/K/16178 Closed plate, plate, web, plate, plate, expension joints, screws	3	Mechanical	Total wt:46.02 kg

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67	Closed Boxe	Drawing No. 70002/K/16186 Closed plate, plate, web, plate, screws	3	Mechanical	Total wt:47.4 kg
68	Closed Plate	Drawing No. 70002/K/16182 Guide plate, plate, web, plate	3	Mechanical	Total wt:10.99 kg
69	Closed Boxe	Drawing No. 70002/K/16187 Closed plate, plate, web, plate, screws	3	Mechanical	Total wt:47kg
70	Seal Plate	Drawing No. 70002/K/16239 Sheet, Sheet, Bull tray, Gusset Qty: (18+3+3+12+2+2+36+12)	3	Mechanical	Total wt:565.76 kg
71	Deflectors	Drawing No. 70002/K/16240 Steel Plate Qty: (12+12+18+12)	3	Mechanical	Total wt:688 kg
72	Anti Vibration Sheet Assembly	Drawing No. 70002/K/16091 Sheet,Door,Screw,nut,blade Qty: (3+2+1+2+1+2+1+1+4+2+3 6+36+36+36+4+3)	3	Mechanical	Total wt:1933.724 kg
73	Inlet and outlet header of Economiser	Drawing No. 70002/K/21795 Shell, Flat, tube, fixing plate Qty (1+1+18+18+4)	3	Mechanical	Total wt:213.4 kg
74	Outled Header of HP Evaporator	Drawing No. 70002/K/21794 Shell, Fixing Plate, tube, plate Qty (1+4+18+18+18+18+18+18)	3	Mechanical	Total wt:391.8 kg
75	Complete Suspension	Drawing No. 70002/K/16276 Pin, Strap, Nutt, Suspension, Pin, Washer Qty (2+1+1+1+1+1+2+2)	3	Mechanical	Total wt:18.295 kg
76	Support for suit blowers	Drawing No. 70002/K/21852 Tole, Plate, Screw, Nutt Qty (1+2+2+8+8)	3	Mechanical	Total wt:16 kg
77	Flange of Roof	Drawing No. 70002/K/21812 Plate of roof, stiffner, flange, plate Qty (2+4+6+24)	3	Mechanical	Total wt:744.32 kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
78	Guide-I	Drawing No. 70002/K/21821 Plate, web, Qty (2+6+1+2)	3	Mechanical	Total wt:51.04 kg
79	Guide-II	Drawing No. 70002/K/21822 Plate, web, Qty (2+2+1+2+4)	3	Mechanical	Total wt:50.76 kg
80	Heating Surface Hanging Assembly	Drawing No. 70002/K/16159 Tightening, Screw, Plate, Complete Suspension & Nutt Qty (18+96+96+96+24+48+24+6 +24+192)	3	Mechanical	Total wt:1662.94 kg
81	Tube Sheet	Drawing No. 70002/K/21854 Tube Sheet, Web, Plate Qty (1+2+4)	3	Mechanical	Total wt:104.36 kg
82	Electric Heater	Model: HER-200(RAK) Vessel Category: 1 Design Pressure: 0.1 MPA Design Temp: 150C Product No. 92H-002 Make: HN Revet welding vessel Factory China	3	Electrical	Total wt:469kg
83	Boiler Structure		3	Mechanical	
84	Vertical Brace	DRG NO. 70002/k/16439 B-V2-7 (k), B-VB-7(k) Qty:04	3	Mechanical	Total wt:1077.6kg
85	Brace	Qty: 02	3	Mechanical	Total wt:607kg
86	Steel plate	Qty: 10	3	Mechanical	Total wt:828.4kg
87	Connection Plate of joint (i) & (iv)	Qty: 20	3	Mechanical	Total wt:605.8kg
88	Pad Type (iv) & (v)	Qty: 16	3	Mechanical	Total wt:12kg
89	Vertical Brace	DRG NO. 70002/k/16440 B-V2-8.9 (k), B-V8-8.9(k) Qty:04	3	Mechanical	Total wt:1129.6kg
90	Brace	Qty: 02	3	Mechanical	Total wt:437kg
91	Steel plate	Qty: 16	3	Mechanical	Total wt:895.2kg
92	Connection Plate of joint (i) & (iv)	Qty: 16	3	Mechanical	Total wt:96.8kg
93	Pad Type (iv) & (v)	Qty: 16	3	Mechanical	Total wt:17.6kg
94	Connection angle type (iv)	Qty: 16	3	Mechanical	Total wt:76kg
95	Vertical Brace	DRG NO. 70002/k/16441 B-V3-1~ 4(k), B-V7-1~ 4 (k) Qty:08	3	Mechanical	Total wt:2702.4
96	Brace	Qty: 08	3	Mechanical	Total wt:2332
97	Steel plate	Qty: 28	3	Mechanical	Total wt:2339.8
98	Connection Plate of joint	Qty: 36	3	Mechanical	Total wt:1437.4kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
99	Vertical Brace	DRG NO. 70002/k/16442 B-V3-5,4(k), B-V7-5, 6 (k) Qty:04	3	Mechanical	Total wt:1797.2kg
100	Brace	Qty: 06	3	Mechanical	Total wt:1334kg
101	Steel plate	Qty: 14	3	Mechanical	Total wt:2339.8
102	Connection Plate of joint	Qty: 48	3	Mechanical	Total wt:560.8kg
103	Pad Type (iv) & (v)	Qty: 32	3	Mechanical	Total wt:26.4kg
104	Vertical Brace	DRG NO. 70002/k/16443 B-V3-7(k), B-V7-7 (k) Qty:02	3	Mechanical	Total wt:1069.6kg
105	Brace	Qty: 02	3	Mechanical	Total wt:607kg
106	Steel plate	Qty: 10	3	Mechanical	Total wt:826.4kg
107	Connection Plate Type-I	Qty: 32	3	Mechanical	Total wt:191kg
108	Pad Type (iv) & (v)	Qty: 16	3	Mechanical	Total wt:8.8kg
109	Vertical Brace	DRG NO. 70002/k/16444 B-V3-8(k), B-V7-8 (k) , B-V3-9(k),B-V7-9 (k) Qty:04	3	Mechanical	Total wt:1129.6kg
110	Brace	Qty: 02	3	Mechanical	Total wt:437kg
111	Steel plate	Qty: 16	3	Mechanical	Total wt:901.2kg
112	Connection Plate Type-I	Qty: 32	3	Mechanical	Total wt:192kg
113	Pad Type (iv) & (v)	Qty: 16	3	Mechanical	Total wt:8.8kg
114	Vertical Brace	DRG NO. 70002/k/16445 B-V3-8(k), B-V7-8 (k) , B-V3-9(k),B-V7-9 (k) Qty:04	3	Mechanical	Total wt:1129.6kg
115	Brace	Qty: 02	3	Mechanical	Total wt:437kg
116	Steel plate	Qty: 16	3	Mechanical	Total wt:901.2kg
117	Connection Plate Type-I	Qty: 32	3	Mechanical	Total wt:192kg
118	Pad Type (iv) & (v)	Qty: 16	3	Mechanical	Total wt:8.8kg
119	Horizontal Brace	DRG NO. 70002/k/16449 B-23HB-1(k), B-23HB-1(k) , B-23HB-2(k), B-23HB-2(k) , B-23HB-3(k), B- 23HB-3(k) , B-23HB-4(k), B-23HB-4(k) , Qty:08	3	Mechanical	Total wt:1132kg
120	Steel plate	Qty: 24	3	Mechanical	Total wt:157.8kg
121	Angle iron	Qty: 16	3	Mechanical	Total wt:862.8kg
122	Horizontal Brace	DRG NO. 70002/k/16450 B-27HA-1(k), B-27HA-4(k) B-27HA- 17(k),B-27HA-20(k) , Qty:08	3	Mechanical	Total wt:424kg
123	Steel plate	Qty: 16	3	Mechanical	Total wt:102.8kg
124	Angle iron	Qty: 16	3	Mechanical	Total wt:276kg
125	Horizontal Brace	DRG NO. 70002/k/16452 B-27HA-5(k), B-27HA-8(k) B-27HA- 21(k),B-27HA-24(k) , Qty:08	3	Mechanical	Total wt:536kg
126	Steel plate	Qty: 24	3	Mechanical	Total wt:220kg
127	Angle iron	Qty: 16	3	Mechanical	Total wt:188.8kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
128	Horizontal Brace	DRG NO. 70002/k/16453 B-27HA-9(k), B-27HA-12(k) , B-27HA-25(k),B-27HA-28(k) , Qty:08	3	Mechanical	Total wt:444kg
129	Steel plate	Qty: 16	3	Mechanical	Total wt:104.4kg
130	Angle iron	Qty: 16	3	Mechanical	Total wt:276kg
131	Horizontal Brace	DRG NO. 70002/k/16454 B-27HA-13(k), B-27HA-14(k) , B-27HA-15(k),B-27HA-16(k) , Qty:04	3	Mechanical	Total wt:203.1kg
132	Steel plate	Qty: 10	3	Mechanical	Total wt:43.4kg
133	Angle iron	Qty: 04	3	Mechanical	Total wt:956.4kg
134	Beam YT15-502	DRG NO. 70002/k/16455 B-16BA-4(k), B-16BA-1(k) , B-16BA-2(k), B-16BA-3(k) , B-16BA-6(k) Qty:04	3	Mechanical	Total wt:1584kg
135	Steel plate	Qty: 15	3	Mechanical	Total wt:2775.9kg
136	Beam YT15-502	DRG NO. 70002/k/16456 B-16BB-5(k) Qty:01	3	Mechanical	Total wt:1413kg
137	Steel plate	Qty: 07	3	Mechanical	Total wt:1385kg
138	Beam YT15-502	DRG NO. 70002/k/16457 B-19BA-8(k) , B-19BA-9(k) B-19BA-14(k) B-19BA-10(k) B-19BA-11(k) B-19BA-12(k) B-19BA-3(k) B-19BA-1(k) Qty:08	3	Mechanical	Total wt:3486kg
139	Steel plate	Qty: 40	3	Mechanical	Total wt:3297.8kg
140	Beam YT15-502	DRG NO. 70002/k/16458 B-19BA-4(k) , B-19BA-7(k) B-19BA-2(k) Qty:03	3	Mechanical	Total wt:3235kg
141	Steel plate	Qty: 17	3	Mechanical	Total wt:3153kg
142	Beam YT15-503	DRG NO. 70002/k/16459 B-19BA-5(k) , B-19BA-6(k) B-19BA-13(k) Qty:03	3	Mechanical	Total wt:3260kg
143	Steel plate	Qty: 17	3	Mechanical	Total wt:3953kg
144	Beam YT15-502	DRG NO. 70002/k/16460 B-19BB-15(k) , B-19BB-18(k) B-19BB-19(k) Qty:03	3	Mechanical	Total wt:4106kg
145	Steel plate	Qty: 25	3	Mechanical	Total wt:3248.7kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
146	Beam YT15-502	DRG NO. 70002/k/16461 B-19BB-16(k) , B-19BB-17(k) Qty:02	3	Mechanical	Total wt:3156kg
147	Steel plate	Qty: 22	3	Mechanical	Total wt:3101kg
148	Beam YT15-503	DRG NO. 70002/k/16462 B-19BC-20(k) , B-19BC-21(k) B-19BC-22(k) , B-21BC-1(k) B-25BC-1(k) Qty:05	3	Mechanical	Total wt:4345kg
149	Steel plate	Qty: 15	3	Mechanical	Total wt:4220.9kg
150	Beam YT15-503	DRG NO. 70002/k/16463 B-23BA-1(k) , B-23BB-18(k) B-23BB-3(k) , B-23BB-19(k) B-23BC-17(k) , B-23BC-24(k) B-23BB-5(k) Qty:07	3	Mechanical	Total wt:2776kg
151	Steel plate	Qty: 21	3	Mechanical	Total wt:2674.2kg
152	Beam YT15-502	DRG NO. 70002/k/16464 B-23BA-2(k) Qty:01	3	Mechanical	Total wt:1416kg
153	Steel plate	Qty: 08	3	Mechanical	Total wt:1388.3kg
154	Beam YT15-502	DRG NO. 70002/k/16465 B-23BB-4(k) Qty:01	3	Mechanical	Total wt:1456kg
155	Steel plate	Qty: 07	3	Mechanical	Total wt:1381.1kg
156	Beam YT15-502	DRG NO. 70002/k/16466 B-23BB-12(k) ,B-23BB-13(k) B-23BB-14(k) , B-23BB-06(k) B-23BB-20(k) Qty:05	3	Mechanical	Total wt:691kg
157	Steel plate	Qty: 15	3	Mechanical	Total wt:625.6kg
158	Beam YT15-502	DRG NO. 70002/k/16467 B-23BB-10(k) ,B-23BB-09(k) B-23BB-07(k) Qty:03	3	Mechanical	Total wt:1893kg
159	Steel plate	Qty: 15	3	Mechanical	Total wt:1541.9kg
160	Beam YT15-502	DRG NO. 70002/k/16468 B-23BB-8(k) ,B-23BB-25(k) B-23BC-16(k) Qty:03	3	Mechanical	Total wt:3995kg
161	Steel plate	Qty: 09	3	Mechanical	Total wt:3897.1kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
162	Beam YT15-502	DRG NO. 70002/k/16469 B-23BB-15(k) ,B-23BB-26(k) B-23BC-11(k), B-23BC-23(k) Qty:04	3	Mechanical	Total wt:3171kg
163	Steel plate	Qty: 12	3	Mechanical	Total wt:3003kg
164	Beam YT15-502	DRG NO. 70002/k/16470 B-23BB-21(k) ,B-23BB-22(k) Qty:02	3	Mechanical	Total wt:640kg
165	Steel plate	Qty: 11	3	Mechanical	Total wt:301.3kg
166	Beam YT15-502,503	DRG NO. 70002/k/16471 B-27BA-1(k) ,B-27BA-3(k) B-27BB-33(k),B-35BB-1(k) B-27BA-6(k) Qty:05	3	Mechanical	Total wt:2357kg
167	Steel plate	Qty: 17	3	Mechanical	Total wt:4465.6kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
168	Beam YT15-502	DRG NO. 70002/k/16472 B-27BC-40(k) ,B-27BC-42(k) B-27BA-2(k),B-35BB-34(k) Qty:04	3	Mechanical	Total wt:2973kg
169	Steel plate	Qty: 12	3	Mechanical	Total wt:2892.7kg
170	Beam YT15-502	DRG NO. 70002/k/16473 B-27BA-5(k) ,B-27BA-7(k) B-27BA-4(k),B-27BA-08(k), B-27BA-10(k)B-27BA-11(k), B-27BA-22(k), B-27BA-23(k) Qty:08	3	Mechanical	Total wt:4624kg
171	Steel plate	Qty: 12	3	Mechanical	Total wt:3692.6kg
172	Beam YT15-502	DRG NO. 70002/k/16474 B-27BA-9(k) ,B-27BA-12(k) B-27BA-21(k),B-27BA-24(k), B-27BA-14(k)B-27BA-15(k), B-27BA-26(k), B-27BA-13(k), B-27BA-25(k) B-27BA-16(k), B-27BA-28(k) Qty:12	3	Mechanical	Total wt:4806kg
173	Steel plate	Qty: 84	3	Mechanical	Total wt:4994.4kg
174	Beam YT15-502	DRG NO. 70002/k/16475 B-27BA-17(k) ,B-27BA-20(k) B-27BA-29(k),B-27BA-32(k), Qty:04	3	Mechanical	Total wt:884kg
175	Steel plate	Qty: 62	3	Mechanical	Total wt:1484kg
176	Beam YT15-502	DRG NO. 70002/k/16476 B-27BB-36(k) ,B-27BB-37(k) B-27BB-38(k),B-27BB-39(k) B-27BC-41(k) Qty:05	3	Mechanical	Total wt:6623kg
177	Steel plate	Qty: 13	3	Mechanical	Total wt:5682.9kg
178	Beam (steel plate,channel etc)	DRG NO. 70002/k/16470 B-TB-9(k) B-TB-12(k) B-TB-11(k) Qty:03	3	Mechanical	Total wt:5238kg
179	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16371 B-TB-10(k) Qty:01	3	Mechanical	Total wt:7024kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
180	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16372 B-TB-16(k) B-TB-17(k) B-TB-18(k) B-TB-19(k) B- TB-21(k) B-TB-24(k) Qty:06	3	Mechanical	Total wt: 930 kg
181	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16377 B-TB-20(k) B-TB-23(k) B-TB-26(k) B-TB-28(k) B- TB-22(k) B-TB-25(k) B-TB- 27(k) B-TB-29(k) Qty:08	3	Mechanical	Total wt: 1246 kg
182	Packing Bar (Top Beam) No.1	DRG NO. 70002/k/16374			Total wt: 18.9 kg
183	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16369 B-TB-8(k) Qty:01	3	Mechanical	Total wt:7024 kg
184	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16368 B-TB-5(k) B-TB-7(k) B-TB-14(k) B-TB-6(k) B- TB-13(k) B-TB-15(k) Qty:06	3	Mechanical	Total wt: 8776.5 kg
185	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16367 B-TB-3(k) B-TB-2(k) Qty:01	3	Mechanical	Total wt: 27072kg
186	Horizontal Brace (Top Beam) Angle Iron, Steel plate, Channel	DRG NO. 70002/k/16364 B-28HB-5(k) ,B-28HB-6(k) B-28HB7(k) B-28HB-8(k) Qty:04	3	Mechanical	Total wt: 4kg
187	Horizontal Brace (Top Beam) Angle Iron, Steel plate, Channel	DRG NO. 70002/k/16365 B-28HB-5(k) ,B-28HB-6(k) B-28HB-7(k) B-28HB-8(k) B-28HB-9(k) ,B-28HB-10(k) B-28HB-11(k) B-28HB- 12(k) Qty: 08	3	Mechanical	Total wt: 3045kg
188	Horizontal Brace (Top Beam) Angle Iron, Steel plate, Channel	DRG NO. 70002/k/16366 B-TB-1(k) , B-TB-4(k) Qty: 02	3	Mechanical	Total wt: 26854kg
189	Access Door with Ladder and Ladding Platform	Drg 70002/K/16723	3	Mechanical	
190	Steel plate	Qty 22	3	Mechanical	Total wt:147.64 kg
191	Steiffner, Nut, Bolt, Washer, Angle Plaatte, Handle , Bar & Seal plate		3	Mechanical	Total wt:42.83kg
192	Outled duct of Gas Turbine	Drg 70002/K/16057	3	Mechanical	Total wt:7581kg
193	Chimney of Boiler	Drg 70002/K/16053	3	Mechanical	Total wt:8105.97kg
194	Inlet Duct of Boiler	Drg 70002/K/16046	3	Mechanical	Total wt:11351 kg
195	Bypass of Chimney (Outer Part)	Drg 70002/K/16052	3	Mechanical	Total wt:9091 kg
196	Bypass of Chimney (Inside Part)		3	Mechanical	Total wt:4506kg
197	Lower Ouled Duct	Drg 70002/K/16251	3	Mechanical	Total wt:2127kg
198	Column	DRG No.70002/k/16426 B-C-C2 (k) , B-C-C8 (k) Qty: 02	3	Mechanical	Total wt:3696kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
199	Angle iron+Steel plate	Qty:8+26	3	Mechanical	Total wt:1458kg
200	Column	DRG No.70002/k/16425 B-C-C3 (k) , B-C-B7 (k) Qty: 02	3	Mechanical	Total wt:5779kg
201	Angle iron	Qty:04	3	Mechanical	Total wt:82.4kg
202	Steel plate (Off sizes)	Qty:26	3	Mechanical	Total wt:5676kg
203	Column	DRG No.70002/k/16424 B-C-B2 (k) , B-C-B8 (k) Qty: 02	3	Mechanical	Total wt:3575kg
204	Angle iron	Qty:04	3	Mechanical	Total wt:20.8kg
205	Steel plate (Off sizes)	Qty:24	3	Mechanical	Total wt:3554.8kg
206	Column	DRG No.70002/k/16423 B-C-A3 (k) , B-C-A7 (k) Qty: 02	3	Mechanical	Total wt:1998kg
207	Angle iron	Qty:04	3	Mechanical	Total wt:16kg
208	Steel plate (Off sizes)	Qty:10	3	Mechanical	Total wt:1981.5kg
209	Column	DRG No.70002/k/16422 B-C-A2 (k) , B-C-A8 (k) Qty: 02	3	Mechanical	Total wt:1901kg
210	Steel plate (Off sizes)	Qty:08	3	Mechanical	Total wt:1901kg
211	Column	DRG No.70002/k/16487 B-C-C3 (k) , B-C-C7 (k) Qty: 02	3	Mechanical	Total wt:4270kg
212	Angle iron	Qty:08	3	Mechanical	Total wt:71.2kg
213	Steel plate (Off sizes)	Qty:24	3	Mechanical	Total wt:4198kg
214	Vertical Brace	DRG NO. 70002/k/16439 B-VA-1 (k) , B-VA-2 (k) Qty:02	3	Mechanical	Total wt:968.2kg
215	Brace	Qty: 02	3	Mechanical	Total wt:845kg
216	Steel plate	Qty: 06	3	Mechanical	Total wt:845kg
217	Miscellence :	Qty: 20	3	Mechanical	Total wt:246.4
218	Vertical Brace	DRG NO. 70002/k/16439 B-VA-3 (k) , B-VA-4 (k) Qty:02	3	Mechanical	Total wt:664.2kg
219	Brace	Qty: 02	3	Mechanical	Total wt:422kg
220	Steel plate	Qty: 08	3	Mechanical	Total wt:490kg
221	Miscellence :	Qty: 20	3	Mechanical	Total wt:418kg
222	Vertical Brace	DRG NO. 70002/k/16430 B-VA-5 (k) , B-VA-6 (k) Qty:02	3	Mechanical	Total wt:597.2kg
223	Brace	Qty: 02	3	Mechanical	Total wt:329kg
224	Steel plate	Qty: 08	3	Mechanical	Total wt:417kg
225	Miscellence :	Qty: 20	3	Mechanical	Total wt:289
226	Vertical Brace	DRG NO. 70002/k/16431 B-VB-1 (k) , B-VB-2 (k) B-VB-3 (k) , B-VB-4 (k)Qty:04	3	Mechanical	Total wt:1167kg
227	Brace	Qty: 04	3	Mechanical	Total wt:921kg
228	Steel plate	Qty: 12	3	Mechanical	Total wt:807kg
229	Miscellence :	Qty: 20	3	Mechanical	Total wt:496kg
230	Vertical Brace	DRG NO. 70002/k/16432 B-VB-5 (k) , B-VB-6 (k) Qty:02	3	Mechanical	Total wt:1122kg
231	Brace	Qty: 02	3	Mechanical	Total wt:898.6kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
232	Steel plate	Qty: 08	3	Mechanical	Total wt:807kg
233	Miscellence :	Qty: 20	3	Mechanical	Total wt:439kg
234	Vertical Brace	DRG NO. 70002/k/16433 B-VB-7 (k), B-VB-8 (k) Qty:02	3	Mechanical	Total wt:591.2kg
235	Brace	Qty: 02	3	Mechanical	Total wt:329kg
236	Steel plate	Qty: 08	3	Mechanical	Total wt:417
237	Miscellence :		3	Mechanical	Total wt:441
238	Vertical Brace	DRG NO. 70002/k/16434 B-VC-1 (k), B-VC-2 (k) , B-VC-11 (k), B-VC-12 (k) , B-VC-12 (k), Qty:06	3	Mechanical	Total wt:3067kg
239	Brace	Qty: 06	3	Mechanical	Total wt:2608kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
240	Steel plate	Qty: 30	3	Mechanical	Total wt:2625kg
241	Miscellence :	Qty: 20	3	Mechanical	Total wt:1260kg
242	Vertical Brace	DRG NO. 70002/k/16435 B-VC-13 (k), B-VC-15 (k) , B-VC-05 (k), B-VC-04 (k) , B-VC-14 (k), B-VC-06 (k), Qty:06	3	Mechanical	Total wt:2176kg
243	Brace	Qty: 06	3	Mechanical	Total wt:1546kg
244	Steel plate	Qty: 26	3	Mechanical	Total wt:1765kg
245	Miscellence :		3	Mechanical	Total wt:1058kg
246	Vertical Brace	DRG NO. 70002/k/16435 B-VC-13 (k), B-VC-15 (k) , B-VC-05 (k), B-VC-04 (k) , B-VC-14 (k), B-VC-06 (k), Qty:06	3	Mechanical	Total wt:2176kg
247	Brace	Qty: 06	3	Mechanical	Total wt:1546kg
248	Steel plate	Qty: 26	3	Mechanical	Total wt:1765kg
249	Miscellence :		3	Mechanical	Total wt:1058kg
250	Vertical Brace	DRG NO. 70002/k/16436 B-VC-8 (k), B-VC-7 (k) , B-VC-9 (k), B-VC-16 (k) , B-VC-17 (k), B-VC-18 (k), Qty:06	3	Mechanical	Total wt:1661kg
251	Brace	Qty: 06	3	Mechanical	Total wt:428.5kg
252	Angle Iron	Qty:08	3	Mechanical	Total wt:436kg
253	Steel plate	Qty: 22	3	Mechanical	Total wt:681kg
254	Miscellence :		3	Mechanical	Total wt:1058kg
255	Vertical Brace	DRG NO. 70002/k/16436 B-VC-8 (k), B-VC-7 (k) , B-VC-9 (k), B-VC-16 (k) , B-VC-17 (k), B-VC-18 (k), Qty:06	3	Mechanical	Total wt:1661kg
256	Brace	Qty: 06	3	Mechanical	Total wt:428.5kg
257	Angle Iron	Qty:08	3	Mechanical	Total wt:436kg
258	Steel plate	Qty: 22	3	Mechanical	Total wt:681kg
259	Miscellence :		3	Mechanical	Total wt:1058kg
260	Vertical Brace	DRG NO. 70002/k/16437 B-V2-1-4 (k), B-VB-1-4 (k) Qty:08	3	Mechanical	Total wt:2700kg
261	Brace	Qty: 08	3	Mechanical	Total wt:2340kg
262	Steel plate	Qty: 28	3	Mechanical	Total wt:2214kg
263	Miscellence :		3	Mechanical	Total wt:493kg
264	Vertical Brace	DRG NO. 70002/k/16438 B-V2-5-6 (k), B-VB-5-6 (k) Qty:04	3	Mechanical	Total wt:1801.2kg
265	Brace	Qty: 04	3	Mechanical	Total wt:1336kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
266	Steel plate	Qty: 16	3	Mechanical	Total wt:1438kg
267	Miscellence :		3	Mechanical	Total wt:718kg
268	Sheet	DRG NO. 70002/k/16095 Qty: 03	3	Mechanical	Total wt:2.26kg
269	Stifner	Qty: 03	3	Mechanical	Total wt:3.41kg
270	Sheet	DRG NO. 70002/k/16096 Qty: 01	3	Mechanical	Total wt:129.2kg
271	Stifner	Qty: 03	3	Mechanical	Total wt:4.8kg
272	Cotner II	Comer plate I& II, Plate , connecting plate, DRG No: 70000/k/21809	3	Mechanical	Total wt:24kg
273	Guide I(Plate,Web)	Qty: plate 5, Web 6 DRG No: 7000/k/21821	3	Mechanical	Total wt:51.04kg
274	Guide II (Plate,Web)	Qty: plate 5, Web 6 DRG No: 7000/k/21822	3	Mechanical	Total wt:50.76kg
275	Overhead Crane (Accessories)	DRG NO. 70002/k/10950 Qty: 01 Capacity:16ton+2.5ton	3	Mechanical	Total wt:25000kg
276	Overhead Crane Track (Column & Beam)	DRG NO. 70002/k/10951	3	Mechanical	Total wt:100000kg
277	Bypass inlet duct (Accessories)	DRG NO. 70002/k/16059	3	Mechanical	Total wt:4721kg
278	Tran asion Duct (Accessories)	DRG NO. 70002/k/16293	3	Mechanical	Total wt:1317kg
279	Duck : Casing , Steel Plates	DRG NO. 70002/k/16334	3	Mechanical	Total wt:5848kg
280	Hanger Fitting	DRG NO. 70002/k/16307	3	Mechanical	Total wt:80kg
281	Hanger Fitting	DRG NO. 70002/k/16308	3	Mechanical	Total wt:86kg
282	Foundation structure	DRG NO. 70002/k/16059	3	Mechanical	Total wt: 600000kg
283	Horizontal Brace, angle Iron, Steel plates stc	F-12HB-43(k), F-12HB-44(k) F-12HB-42(k), F-12HB-45(k) DRG NO. 70002/k/16275	3	Mechanical	Total wt:2499.7kg
284	Horizontal Brace, angle Iron, Steel plates stc	F-12HB-28-33(k), F-12HB-52-57(k) DRG NO. 70002/k/16276	3	Mechanical	Total wt:3652.4kg
285	Beam	F-6BA-1-4(k) F-6BD-(k) DRG NO. 70002/k/16279	3	Mechanical	Total wt:4380kg
286	Beam	F-6BA-5(k) F-6BB-6(k) DRG NO. 70002/k/16280	3	Mechanical	Total wt:1658kg
287	Bypass Chimney (Inside parts)	DRG NO. 70002/k/16051	3	Mechanical	Total wt:4505.53kg
288	Middle Chimney (Inside parts)	DRG NO. 70002/k/16033	3	Mechanical	Total wt:941.14kg
289	Upper Chimney (Inside parts)	DRG NO. 70002/k/16034	3	Mechanical	Total wt:985.6kg
290	Lower Chimney (Inside parts)	DRG NO. 70002/k/16035	3	Mechanical	Total wt:733.84kg
291	Bypass Chimney (out side parts)	DRG NO. 70002/k/16052	3	Mechanical	Total wt:8465.1kg
292	Upper Bypass Chimney (Out side parts)	DRG NO. 70002/k/16036	3	Mechanical	Total wt:3409.7kg
293	Bypass Chimney (Lower)	DRG NO. 70002/k/16037	3	Mechanical	Total wt:5108.5kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
294	Supporter	DRG NO. 70002/k/16038	3	Mechanical	Total wt:1034kg
295	Horizontal Brace(Steel plate, Angle iron)	DRG NO. 70002/k/16274 F-12HB-38--41 (k), F-12HB-48--51 (k) Qty:08	3	Mechanical	Total wt:4313.6kg
296	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16273 F-12HB-24--27 (k), F-12HB-62--62 (k) Qty:08	3	Mechanical	Total wt:1976kg
297	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16272 F-12HB-46--47 (k), F-12HB-9 (k) , F-12HB-14 (k) , Qty:04	3	Mechanical	Total wt:752kg
298	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16271 F-12HA-10--15 (k), F-12HB-34-35 (k) , F-12HB-58-59 (k) , Qty:06	3	Mechanical	Total wt:1661.36kg
299	Column	DRG NO. 70002/k/16262 F-C-A1(k) , F-C-A9(k) , Qty:02	3	Mechanical	Total wt:5522kg
300	Column	DRG NO. 70002/k/16263 F-C-A6(k) , F-C-A4(k) , Qty:02	3	Mechanical	Total wt:5708kg
301	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16268 F-12HA-1--4 (k) F-12HA-20-23 (k) Qty:08	3	Mechanical	Total wt:867kg
302	Column	DRG NO. 70002/k/16267 F-C-D4 (k) F-C-D6(k) , Qty:02	3	Mechanical	Total wt:9624kg
303	Column	DRG NO. 70002/k/16266 F-C-D1 (k) F-C-D9(k) , Qty:02	3	Mechanical	Total wt:14562.4kg
304	Column	DRG NO. 70002/k/16265 F-C-84 (k) F-C-86(k) , Qty:02	3	Mechanical	Total wt:10834kg
305	Column	DRG NO. 70002/k/16264 F-C-b1 (k) F-C-b9(k) , Qty:02	3	Mechanical	Total wt:8840kg
306	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16269 F-12HA-5-8 (k), F-12HA-16-19 (k) , F-12HB-36-37 (k) , F-12HB-60-61 (k) , Qty:12	3	Mechanical	Total wt:2872kg
307	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16270 F-12HA-11-13 (k), Qty:03	3	Mechanical	Total wt:3172kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
308	Beam F-12BA-1(k) , F-27BA-3(k) 12BA-2(k) , F-27BB-17(k) F-12BD-50(k) , F-12BA-5(k) F- 12BA-6(k), F-12BA-9(k), F-12BA-10(k), F-12BA-7-8(k), F- 12BA-4-11(k), F- 12BB-43(k), F-12BA-12-15(k), F- 12BB-27-31(k) F-12BB- 35-39(k) F- 12BB-16(k), F-12BB-18(k), F-12BB- 19-26(k), F-12BB-22-13(k), F- 12BB-20(k), F-12BB-25(k), F-12BB-21(k), F-12BB-24(k), F-12BB- 32-34(k), F-12BB-52- 53(k), F-12BB-40-42(k), F-12BB-44- 48(k), F-12BB-16(k), F-12BD-49(k), F-12BD-51(k)	DRG NO. 70002/k/16281, DRG NO. 70002/k/16282, DRG NO. 70002/k/16283, DRG NO. 70002/k/16284, DRG NO. 70002/k/16285, DRG NO. 70002/k/16286, DRG NO. 70002/k/16287, DRG NO. 70002/k/16288, DRG NO. 70002/k/16289, DRG NO. 70002/k/16290, DRG NO. 70002/k/16291, DRG NO. 70002/k/16292,	3	Mechanical	Total wt:151663.64kg
309	Boiler Outlet Silencer	DRG NO. 70002/k/10920 Splitters , Quantity: 07	3	Mechanical	Total weight: 2600kg
310	Superheater Relief Valves				Total weight: 100kg
311	Assembly of Exhaust Silencer	DRG NO. 70002/k/10923 Splitters , Bracket & sheets	3	Mechanical	Total weight: 7554kg
312					
313	Outlet Gas Turbine / Inlet Diverter	DRG NO. 70002/k/10954 Name: MJ/jf Medium: Flue gas Temperature: 525°C Pressure: 400mm WG, Velocity: 31.2 m/sec, Drawing No: 64109-011-1	3	Mechanical	Total wt: 10000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
1	Gas Turbine No.244870 Make: Thomassen Holland B.V	Model:PG.5341P Simple Cycle Industrial Heavy Duty 2 stage 25MW	4	Mechanical	Total wt:85000kg
2	Generator Make: Smit Slikkerveer Holland B.V	Type: DTG.175/200/80 Rated Voltage: 11kV Rated Amp: 1404A Rated Power: 11kW Rated Powerfactor: 0.8 Air Cooled with Brushless Excitation System	4	Electrical	Stator:37000kg Rotor: 11500kg Dimension: Stator Overall: Length: 9800mm Width: 3350mm Height: 3820mm Rotor: 800x2000 mm
3	Brushless Exciter with PMG Make: Brush Electric Machine Ltd	Rect: DC kW = 150 Max: Rect: DC Volts = 205	4	Electrical	Exciter stator: 800 kg Bearing pedestal:800 kg
4	UNIT TRANSFORMER (MAKE: SMIT HOLLAND)	Rating: 25/31.5 MVA Voltage: 132/11 KV	4	Electrical	Winding: 45000 kg Tank & Acc:20000 kg T/F Oil.10000kg
5	Unit Auxiliary Transformer Make: Lepper-Dominit	Type: DOH 630/11 Rating: 630kVA Ratio: 11000/420 with $\pm 2\frac{1}{2}$ % and ± 5 % Taps Nominal Freq:50Hz Cooling: ONAN	4	Electrical	Dimensions: Length: 1680mm Width: 980mm Height: 1650mm Total Weight 3500kg
6	OIL FILTER HILCO HYFLOW.	Model No.: 19 & 12. Serial No. : 570930-6-754- 6876. G.E Part No. : 26A1255-5 Max Working Pressure : 120 PSI. Use Converter Gasket : FB- 4635-11 Qty: 02 Nos Made by VC 08192 : HILLIARD Corp: Elmira, New York, USA	4	Mechanical	Total Weight 15kg
7	OIL FILTER TRANSFER VALVE.	Model No.: 140188.. Serial No. : 77-160. Pressure : 120 Psi. Maximum Temperature : 250°C. No. : CE2/215794P022. Qty: 02 Nos Company : NEMCO.	4	Mechanical	Total Weight 50kg
8	HYDRAULIC TORQUE CONVERTER	Model No.: 4 SGE-1607-2 Serial No. : 282443 Specific Torque: 600. Spec. No. 62940. Qty: 02 Nos Make: TWIN DISC Incorporated USA.	4	Mechanical	Total Weight 5000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
8	OIL FILTER HILCO HYFLOW.	Model No.: F1-3ESS Serial No. : 486053-6N- 8736977-1 G.E Part No. : 718C413-63 Max Working Pressure : 150 PSI. Use Converter Gasket : FB- 4635-11 Qty: 02 Nos Made by: VC 08192 : HILLIARD Corp: Elmira, New York, USA.	4	Mechanical	Total Weight 15kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
9	CARLSON / HILCO MICRONIC FILTER	Type.: F1-1E Serial No. : F-602 Cartridge: PL-718-B6 Cover Bolt Torque: 75 FT-LBS Qty: 02 Nos Made by: CARLSON FORD LTD, USA.	4	Mechanical	Total Weight 10kg
10	FUEL OIL PUMP.	G.E Drawing No. : 235A5998 Part No. : 01 Serial No. : V495. Type : 04 Qty: 02 Nos Speed : 2951 rpm (Make : USA)	4	Mechanical	Total Weight 700kg
11	ACCESSORY GEAR BOX.	Reference : Thomson 3030 Type : A519AA1EJ No. : 1944 Year 1977. Power : 120 kW Speed: 5100 / 3582.6 rpm. Qty: 02 Nos Pressure : 1.7 Bar.	4	Mechanical	Total Weight 3000kg
12	GT COOLER LINE (INLET/OUTLET VALVES (DISTEL WATER).	DN : 150 mm PN : 10 bar Qty: 02 Nos Make : China	4	Mechanical	Total Weight 50kg
13	RAW WATER COOLING LINE WATER	DN : 150 mm PN : 10 bar Qty: 02 Nos Make : China	4	Mechanical	Total Weight 150kg
14	BLEED VALVE ASSEMBLY.	Size : 6" (150 mm) Maximum Temperature : 350°C. Minimum Temperature : 200 °C. Operating Pressure : 9.5 Kgf / cm². Maximum Pressure : 11.6 Kgf / cm². Serial No. : 3G9218-2. Qty: 04 Nos Make : YAKAKITO, SEISAKOSHO, Japan.	4	Mechanical	Total Weight 200kg
15	Radiator Cooling Fan	Equipment No. HX-02 New Project No. S-0160 New DRG No.E-0167.REV.1 Shell Pressure: 793KPa at 80°C Tube Pressure: 483KPa Qty: 03 Nos on each GT. Make. Pakistan Atomic Energy Commission Pakistan.	4	Mechanical	Total Weight 600kg
16	Air cooler	Single tube type	4	Mechanical	Total wt:1600 kg
17	Acoustic enclosure		4	Mechanical	Total wt:6500 kg Dimesnion: L = 11 meter w = 3.855 meter h = 3.3/5.32 meter
18	Base plate of Alternator		4		Total wt:19000 kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
19	Reduction Gear Box (including SSS clutch)	Type: Single reduction gear box Speed Ratio : 5100/3000 rpm provided with 04 doors, CO2 nozzels	4	Mechanical	Total wt:9000 kg
20	BLOW DOWN TANK (HRSG No.3,4, 5&6)	Drg No. 70002/K/16154 Volume: 22m Design Pressure: 9 bar Working Pressure: 0.2bar Test pressure: 12bar Design Temperature: 480C Working Medium: Water & Steam Manufacturing date: 12/1992 Serial No.Z-021 Qty: 02 Nos Make: Harbin Boiler Works, China	4	Mechanical	Total weight 15000kg
21	Piping and instrumentation		4		Total wt:60000kg
22	Control Panels		4		Total wt:15000kg
23	Accessories of Blow Down Tank		4		Total Wt:706.53kg
24	HEAT RECOVERY STEAM GENERATOR (HRSG).	Type : HG-f16968-GT1. Maximum Allowable Working Pressure : 54.3 BarA. Heating Surface Area : 16968 m ² . Rated Steam Generating Capacity : 44.88 Ton/hr. Design Temperature : 515°C. Manufacturing Serial No. 2169. Built Date : 05/1993 Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	4	Mechanical	Total Wt:
25	BOILER DRUM (HRSG).	Service Pressure : 50 Bar A. Design Pressure : 54.3 Bar. Test Pressure : 81 Bar A Design Temperature : 269°C Service Temperature : 264°C Test Temperature : 81°C Code : ASMI 70002/2168/9/1992. Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	4	Mechanical	Total Weight 150000kg
26	HP Economizer Assembly		4	Mechanical	

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
27	Header HP Economizer inlet and outlet	Qty: 02 Nos DRG: NO.U301.150K	4	Mechanical	Total wt:436 kg
28	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 576 Nos	4	Mechanical	Total wt:22694.4 kg
29	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 12 Nos	4	Mechanical	Total wt:2851.2kg
30	TUBE SHEETS	DRG: NO. U301.140K Qty: 12 Nos	4	Mechanical	Total wt:2524.8 kg
31	LP Evaporator Assembly	Drawing No. 70002/K/21790 In header LP Evaporator, Out header LP Evaporator, finned tubes, Return Bands, Head Lock, Header Connection, Plate Qty (1+1+216+108+12+72+72 +72+1+1+1+1+32)	4	Mechanical	Total wt:15760.88 kg
32	Header Connection, Lock, Tube Bend, Plate		4	Mechanical	Total wt:712.08 kg
33	HP 2 Evaporator Assembly		4	Mechanical	
34	Out Header HP Evaporator	DRG: NO. U301-149K Qty: 01 No	4	Mechanical	Total wt:403 kg
35	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 432 Nos	4	Mechanical	Total wt:18187.2 kg
36	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	4	Mechanical	Total wt:4568.4 kg
37	Header Connection, Tube Sheets, Return bends		4	Mechanical	Total wt:2872.88 kg
38	HP 1 Evaporator Assembly		4	Mechanical	
39	In Header HP Evaporator	Dia: 219mm, Thickness: 15mm, Qty: 01 No. DRG NO-U301-148K	4	Mechanical	Total wt:413.5kg
40	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	4	Mechanical	Total wt:4568.4kg
41	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 540 Nos	4	Mechanical	Total wt:22734kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
42	Return bends	Dia: 31.8mm, Thickness: 3.2mm, Qty.(36+36+36+180+180+180) Nos	4	Mechanical	Total wt:1231.2kg
43	Header Connection, Lock, Tube Sheets, Plate	Qty: (1+1+12+3+32)	4	Mechanical	Total wt:4847.88kg
44	Situation Boxes and Expansion Joints		4	Mechanical	Total wt:500kg
45	Closed boxe and Expansion Joints	DRG: NO. U301.539K Qty: (1+3+3+1+2) Nos	4	Mechanical	Total wt:501.3kg
46	Closed boxe	Qty: 04 Nos	4	Mechanical	Total wt:316.6kg
47	Inlet Header HP Evaporator		4	Mechanical	
48	Shell	Dia: 29x15 Length.3018mm. Qty: 01 No	4	Mechanical	Total wt:227.8kg
49	Fixed plate	Length into Breadth: 50x70 Qty: 04 Nos	4	Mechanical	Total wt:02kg
50	Tube	DRG No 70002/k/21789			
51	Flat	Qty: 01 No, DRG No.U301.184K	4	Mechanical	Total wt:10.7kg
52	Outlet Header LP Evaporator	Qty : 1	4	Mechanical	Total wt:16.9 kg
53	Shell	Dia: 325x13, Length:3818 mm Qty: 1	4	Mechanical	Total wt:301.9 kg
54	Flat	Qty : 1	4	Mechanical	Total wt:16.9 kg
55	Tube	Dia 38x2.9 mm Qty : 108	4	Mechanical	Total wt:147.6 kg
56	Internal of Drum (Section E-E)	Drawing No. 70002/K/21713	4	Mechanical	Total wt:500.34 kg
57	Internal of Drum (Section A-A, B-B, D-D)	Drawing No. 70002/K/21714	4	Mechanical	Total wt:400kg
58	General Arrangement of Steam Drum	Drawing No. 70002/K/21700	4	Mechanical	
59	Shell	Dia 1876x38 Length : 2250 m Qty: 02	4	Mechanical	Total wt:7671 kg
60	Head, Access Door Anti-seismic Block	DRG No. U301.018K (Qty : 1+3+1+1+1+3+11+1+1+1+1+2)	4	Mechanical	Total wt:3612 kg
61	Nozzels		4	Mechanical	Total wt:338.54 kg
62	Drum Hanger & Guide	Drawing No. 70002/K/21813 (Clamping, Pin, Tie Plate, Hanger, Cone wahser, Spherical Washer, Nutt, Guide-1&2)	4	Mechanical	Total wt:680.704 kg
63	Closed Boxe & Expension Joints	Drawing No. 70002/K/16179 Closed plate, plate, web, plate, plate, expansion joits, screws	4	Mechanical	Total wt:49.73 kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
64	Closed Boxe & Expension Joints	Drawing No. 70002/K/16180 Closed plate, plate, web, plate, plate, expansion joints, screws	4	Mechanical	Total wt:53.33 kg
65	Closed Boxe & Expension Joints	Drawing No. 70002/K/16181 Closed plate, plate, web, plate, plate, expansion joints, screws	4	Mechanical	Total wt:57.57 kg
66	Closed Boxe & Expension Joints	Drawing No. 70002/K/16178 Closed plate, plate, web, plate, plate, expansion joints, screws	4	Mechanical	Total wt:46.02 kg
67	Closed Boxe	Drawing No. 70002/K/16186 Closed plate, plate, web, plate, screws	4	Mechanical	Total wt:47.4 kg
68	Closed Plate	Drawing No. 70002/K/16182 Guide plate, plate, web, plate	4	Mechanical	Total wt:10.99 kg
69	Closed Boxe	Drawing No. 70002/K/16187 Closed plate, plate, web, plate, screws	4	Mechanical	Total wt:47kg
70	Seal Plate	Drawing No. 70002/K/16239 Sheet, Sheet, Bull tray, Gusset Qty: (18+3+3+12+2+2+36+12)	4	Mechanical	Total wt:565.76 kg
71	Deflectors	Drawing No. 70002/K/16240 Steel Plate Qty: (12+12+18+12)	4	Mechanical	Total wt:688 kg
72	Anti Vibration Sheet Assembly	Drawing No. 70002/K/16091 Sheet,Door,Screw,nut,blade Qty: (3+2+1+2+1+2+1+1+4+2+3 6+36+36+36+4+3)	4	Mechanical	Total wt:1933.724 kg
73	Inlet and outlet header of Economiser	Drawing No. 70002/K/21795 Shell, Flat, tube, fixing plate Qty (1+1+18+18+4)	4	Mechanical	Total wt:213.4 kg
74	Outled Header of HP Evaporator	Drawing No. 70002/K/21794 Shell, Fixing Plate, tube, plate Qty (1+4+18+18+18+18+18)	4	Mechanical	Total wt:391.8 kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
75	Complete Suspension	Drawing No. 70002/K/16276 Pin, Strap, Nutt, Suspension, Pin, Washer Qty (2+1+1+1+1+1+2+2)	4	Mechanical	Total wt:18.295 kg
76	Support for suit blowers	Drawing No. 70002/K/21852 Tole, Plate, Screw, Nutt Qty (1+2+2+8+8)	4	Mechanical	Total wt:16 kg
77	Flange of Roof	Drawing No. 70002/K/21812 Plate of roof, stiffner, flange, plate Qty (2+4+6+24)	4	Mechanical	Total wt:744.32 kg
78	Guide-I	Drawing No. 70002/K/21821 Plate, web, Qty (2+6+1+2)	4	Mechanical	Total wt:51.04 kg
79	Guide-II	Drawing No. 70002/K/21822 Plate, web, Qty (2+2+1+2+4)	4	Mechanical	Total wt:50.76 kg
80	Heating Surface Hanging Assembly	Drawing No. 70002/K/16159 Tightening, Screw, Plate, Complete Suspension & Nutt Qty (18+96+96+96+24+48+24+6 +24+192)	4	Mechanical	Total wt:1662.94 kg
81	Tube Sheet	Drawing No. 70002/K/21854 Tube Sheet, Web, Plate Qty (1+2+4)	4	Mechanical	Total wt:104.36 kg
82	Electric Heater	Model: HER-200(RAK) Vessel Category: 1 Design Pressure: 0.1 MPA Design Temp: 150C Product No. 92H-002 Make: HN Revet welding vessel Factory China	4	Electrical	Total wt:469kg
83	Boiler Structure		4	Mechanical	
84	Vertical Brace	DRG NO. 70002/k/16439 B-V2-7 (k), B-VB-7(k) Qty:04	4	Mechanical	Total wt:1077.6kg
85	Brace	Qty: 02	4	Mechanical	Total wt:607kg
86	Steel plate	Qty: 10	4	Mechanical	Total wt:828.4kg
87	Connection Plate of joint (i) & (iv)	Qty: 20	4	Mechanical	Total wt:605.8kg
88	Pad Type (iv) & (v)	Qty: 16	4	Mechanical	Total wt:12kg
89	Vertical Brace	DRG NO. 70002/k/16440 B-V2-8.9 (k), B-V8-8.9(k) Qty:04	4	Mechanical	Total wt:1129.6kg
90	Brace	Qty: 02	4	Mechanical	Total wt:437kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
91	Steel plate	Qty: 16	4	Mechanical	Total wt:895.2kg
92	Connection Plate of joint (i) & (iv)	Qty: 16	4	Mechanical	Total wt:96.8kg
93	Pad Type (iv) & (v)	Qty: 16	4	Mechanical	Total wt:17.6kg
94	Connection angle type (iv)	Qty: 16	4	Mechanical	Total wt:76kg
95	Vertical Brace	DRG NO. 70002/k/16441 B-V3-1~ 4(k), B-V7-1~ 4 (k) Qty:08	4	Mechanical	Total wt:2702.4
96	Brace	Qty: 08	4	Mechanical	Total wt:2332
97	Steel plate	Qty: 28	4	Mechanical	Total wt:2339.8
98	Connection Plate of joint	Qty: 36	4	Mechanical	Total wt:1437.4kg
99	Vertical Brace	DRG NO. 70002/k/16442 B-V3-5,4(k), B-V7-5, 6 (k) Qty:04	4	Mechanical	Total wt:1797.2kg
100	Brace	Qty: 06	4	Mechanical	Total wt:1334kg
101	Steel plate	Qty: 14	4	Mechanical	Total wt:2339.8
102	Connection Plate of joint	Qty: 48	4	Mechanical	Total wt:560.8kg
103	Pad Type (iv) & (v)	Qty: 32	4	Mechanical	Total wt:26.4kg
104	Vertical Brace	DRG NO. 70002/k/16443 B-V3-7(k), B-V7-7 (k) Qty:02	4	Mechanical	Total wt:1069.6kg
105	Brace	Qty: 02	4	Mechanical	Total wt:607kg
106	Steel plate	Qty: 10	4	Mechanical	Total wt:826.4kg
107	Connection Plate Type-I	Qty: 32	4	Mechanical	Total wt:191kg
108	Pad Type (iv) & (v)	Qty: 16	4	Mechanical	Total wt:8.8kg
109	Vertical Brace	DRG NO. 70002/k/16444 B-V3-8(k), B-V7-8 (k) , B-V3-9(k),B-V7-9 (k) Qty:04	4	Mechanical	Total wt:1129.6kg
110	Brace	Qty: 02	4	Mechanical	Total wt:437kg
111	Steel plate	Qty: 16	4	Mechanical	Total wt:901.2kg
112	Connection Plate Type-I	Qty: 32	4	Mechanical	Total wt:192kg
113	Pad Type (iv) & (v)	Qty: 16	4	Mechanical	Total wt:8.8kg
114	Vertical Brace	DRG NO. 70002/k/16445 B-V3-8(k), B-V7-8 (k) , B-V3-9(k),B-V7-9 (k) Qty:04	4	Mechanical	Total wt:1129.6kg
115	Brace	Qty: 02	4	Mechanical	Total wt:437kg
116	Steel plate	Qty: 16	4	Mechanical	Total wt:901.2kg
117	Connection Plate Type-I	Qty: 32	4	Mechanical	Total wt:192kg
118	Pad Type (iv) & (v)	Qty: 16	4	Mechanical	Total wt:8.8kg
119	Horizontal Brace	DRG NO. 70002/k/16449 B-23HB-1(k), B-23HB-1(k) , B-23HB-2(k), B-23HB-2(k) , B-23HB-3(k), B- 23HB-3(k) , B-23HB-4(k), B-23HB-4(k) , Qty:08	4	Mechanical	Total wt:1132kg
120	Steel plate	Qty: 24	4	Mechanical	Total wt:157.8kg
121	Angle iron	Qty: 16	4	Mechanical	Total wt:862.8kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
122	Horizontal Brace	DRG NO. 70002/k/16450 B-27HA-1(k), B-27HA-4(k) , B-27HA-17(k),B-27HA-20(k) , Qty:08	4	Mechanical	Total wt:424kg
123	Steel plate	Qty: 16	4	Mechanical	Total wt:102.8kg
124	Angle iron	Qty: 16	4	Mechanical	Total wt:276kg
125	Horizontal Brace	DRG NO. 70002/k/16452 B-27HA-5(k), B-27HA-8(k) , B-27HA-21(k),B-27HA-24(k) , Qty:08	4	Mechanical	Total wt:536kg
126	Steel plate	Qty: 24	4	Mechanical	Total wt:220kg
127	Angle iron	Qty: 16	4	Mechanical	Total wt:188.8kg
128	Horizontal Brace	DRG NO. 70002/k/16453 B-27HA-9(k), B-27HA-12(k) , B-27HA-25(k),B-27HA-28(k) , Qty:08	4	Mechanical	Total wt:444kg
129	Steel plate	Qty: 16	4	Mechanical	Total wt:104.4kg
130	Angle iron	Qty: 16	4	Mechanical	Total wt:276kg
131	Horizontal Brace	DRG NO. 70002/k/16454 B-27HA-13(k), B-27HA-14(k) , B-27HA-15(k),B-27HA-16(k) , Qty:04	4	Mechanical	Total wt:203.1kg
132	Steel plate	Qty: 10	4	Mechanical	Total wt:43.4kg
133	Angle iron	Qty: 04	4	Mechanical	Total wt:956.4kg
134	Beam YT15-502	DRG NO. 70002/k/16455 B-16BA-4(k), B-16BA-1(k) , B-16BA-2(k), B-16BA-3(k) , B-16BA-6(k) Qty:04	4	Mechanical	Total wt:1584kg
135	Steel plate	Qty: 15	4	Mechanical	Total wt:2775.9kg
136	Beam YT15-502	DRG NO. 70002/k/16456 B-16BB-5(k) Qty:01	4	Mechanical	Total wt:1413kg
137	Steel plate	Qty: 07	4	Mechanical	Total wt:1385kg
138	Beam YT15-502	DRG NO. 70002/k/16457 B-19BA-8(k) , B-19BA-9(k) B-19BA-14(k) B-19BA-10(k) B-19BA-11(k) B-19BA-12(k) B-19BA-3(k) B-19BA-1(k) Qty:08	4	Mechanical	Total wt:3486kg
139	Steel plate	Qty: 40	4	Mechanical	Total wt:3297.8kg
140	Beam YT15-502	DRG NO. 70002/k/16458 B-19BA-4(k) , B-19BA-7(k) B-19BA-2(k) Qty:03	4	Mechanical	Total wt:3235kg
141	Steel plate	Qty: 17	4	Mechanical	Total wt:3153kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
142	Beam YT15-503	DRG NO. 70002/k/16459 B-19BA-5(k) , B-19BA-6(k) B-19BA-13(k) Qty:03	4	Mechanical	Total wt:3260kg
143	Steel plate	Qty: 17	4	Mechanical	Total wt:3953kg
144	Beam YT15-502	DRG NO. 70002/k/16460 B-19BB-15(k) , B-19BB- 18(k) B-19BB- 19(k) Qty:03	4	Mechanical	Total wt:4106kg
145	Steel plate	Qty: 25	4	Mechanical	Total wt:3248.7kg
146	Beam YT15-502	DRG NO. 70002/k/16461 B-19BB-16(k) , B-19BB- 17(k) Qty:02	4	Mechanical	Total wt:3156kg
147	Steel plate	Qty: 22	4	Mechanical	Total wt:3101kg
148	Beam YT15-503	DRG NO. 70002/k/16462 B-19BC-20(k) , B-19BC- 21(k) B-19BC- 22(k) , B-21BC-1(k) B-25BC-1(k) Qty:05	4	Mechanical	Total wt:4345kg
149	Steel plate	Qty: 15	4	Mechanical	Total wt:4220.9kg
150	Beam YT15-503	DRG NO. 70002/k/16463 B-23BA-1(k) , B-23BB- 18(k) B-23BB-3(k) , B-23BB-19(k) B-23BC-17(k) , B-23BC- 24(k) B-23BB-5(k) Qty:07	4	Mechanical	Total wt:2776kg
151	Steel plate	Qty: 21	4	Mechanical	Total wt:2674.2kg
152	Beam YT15-502	DRG NO. 70002/k/16464 B-23BA-2(k) Qty:01	4	Mechanical	Total wt:1416kg
153	Steel plate	Qty: 08	4	Mechanical	Total wt:1388.3kg
154	Beam YT15-502	DRG NO. 70002/k/16465 B-23BB-4(k) Qty:01	4	Mechanical	Total wt:1456kg
155	Steel plate	Qty: 07	4	Mechanical	Total wt:1381.1kg
156	Beam YT15-502	DRG NO. 70002/k/16466 B-23BB-12(k) ,B-23BB- 13(k) B-23BB-14(k) , B-23BB- 06(k) B-23BB-20(k) Qty:05	4	Mechanical	Total wt:691kg
157	Steel plate	Qty: 15	4	Mechanical	Total wt:625.6kg
158	Beam YT15-502	DRG NO. 70002/k/16467 B-23BB-10(k) ,B-23BB- 09(k) B-23BB-07(k) Qty:03	4	Mechanical	Total wt:1893kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
159	Steel plate	Qty: 15	4	Mechanical	Total wt:1541.9kg
160	Beam YT15-502	DRG NO. 70002/k/16468 B-23BB-8(k) ,B-23BB-25(k) B-23BC-16(k) Qty:03	4	Mechanical	Total wt:3995kg
161	Steel plate	Qty: 09	4	Mechanical	Total wt:3897.1kg
162	Beam YT15-502	DRG NO. 70002/k/16469 B-23BB-15(k) ,B-23BB-26(k) B-23BC-11(k), B-23BC-23(k) Qty:04	4	Mechanical	Total wt:3171kg
163	Steel plate	Qty: 12	4	Mechanical	Total wt:3003kg
164	Beam YT15-502	DRG NO. 70002/k/16470 B-23BB-21(k) ,B-23BB-22(k) Qty:02	4	Mechanical	Total wt:640kg
165	Steel plate	Qty: 11	4	Mechanical	Total wt:301.3kg
166	Beam YT15-502,503	DRG NO. 70002/k/16471 B-27BA-1(k) ,B-27BA-3(k) B-27BB-33(k),B-35BB-1(k) B-27BA-6(k) Qty:05	4	Mechanical	Total wt:2357kg
167	Steel plate	Qty: 17	4	Mechanical	Total wt:4465.6kg
168	Beam YT15-502	DRG NO. 70002/k/16472 B-27BC-40(k) ,B-27BC-42(k) B-27BA-2(k),B-35BB-34(k) Qty:04	4	Mechanical	Total wt:2973kg
169	Steel plate	Qty: 12	4	Mechanical	Total wt:2892.7kg
170	Beam YT15-502	DRG NO. 70002/k/16473 B-27BA-5(k) ,B-27BA-7(k) B-27BA-4(k),B-27BA-08(k), B-27BA-10(k)B-27BA-11(k), B-27BA-22(k), B-27BA-23(k) Qty:08	4	Mechanical	Total wt:4624kg
171	Steel plate	Qty: 12	4	Mechanical	Total wt:3692.6kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
172	Beam YT15-502	DRG NO. 70002/k/16474 B-27BA-9(k) ,B-27BA-12(k) B-27BA-21(k),B-27BA-24(k), B-27BA-14(k)B-27BA-15(k), B-27BA-26(k), B-27BA-13(k), B-27BA-25(k) B-27BA-16(k), B-27BA-28(k) Qty:12	4	Mechanical	Total wt:4806kg
173	Steel plate	Qty: 84	4	Mechanical	Total wt:4994.4kg
174	Beam YT15-502	DRG NO. 70002/k/16475 B-27BA-17(k) ,B-27BA-20(k) B-27BA-29(k),B-27BA-32(k), Qty:04	4	Mechanical	Total wt:884kg
175	Steel plate	Qty: 62	4	Mechanical	Total wt:1484kg
176	Beam YT15-502	DRG NO. 70002/k/16476 B-27BB-36(k) ,B-27BB-37(k) B-27BB-38(k),B-27BB-39(k) B-27BC-41(k) Qty:05	4	Mechanical	Total wt:6623kg
177	Steel plate	Qty: 13	4	Mechanical	Total wt:5682.9kg
178	Beam (steel plate,channel etc)	DRG NO. 70002/k/16470 B-TB-9(k) B-TB-12(k) B-TB-11(k) Qty:03	4	Mechanical	Total wt:5238kg
179	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16371 B-TB-10(k) Qty:01	4	Mechanical	Total wt:7024kg
180	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16372 B-TB-16(k) B-TB-17(k) B-TB-18(k) B-TB-19(k) B-TB-21(k) B-TB-24(k) Qty:06	4	Mechanical	Total wt: 930 kg
181	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16377 B-TB-20(k) B-TB-23(k) B-TB-26(k) B-TB-28(k) B-TB-22(k) B-TB-25(k) B-TB-27(k) B-TB-29(k) Qty:08	4	Mechanical	Total wt: 1246 kg
182	Packing Bar (Top Beam) No.1	DRG NO. 70002/k/16374	4		Total wt: 18.9 kg
183	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16369 B-TB-8(k) Qty:01	4	Mechanical	Total wt:7024 kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
184	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16368 B-TB-5(k) B-TB-7(k) B-TB-14(k) B-TB-6(k) B- TB-13(k) B-TB-15(k) Qty:06	4	Mechanical	Total wt: 8776.5 kg
185	Beam (steel plate,channel etc) TOP BEAM	DRG NO. 70002/k/16367 B-TB-3(k) B-TB-2(k) Qty:01	4	Mechanical	Total wt: 27072kg
186	Horizontal Brace (Top Beam) Angle Iron, Steel plate, Channel	DRG NO. 70002/k/16364 B-28HB-5(k) ,B-28HB-6(k) B-28HB7(k) B-28HB-8(k) Qty:04	4	Mechanical	Total wt: 4kg
187	Horizontal Brace (Top Beam) Angle Iron, Steel plate, Channel	DRG NO. 70002/k/16365 B-28HB-5(k) ,B-28HB-6(k) B-28HB-7(k) B-28HB-8(k) B-28HB-9(k) ,B-28HB-10(k) B-28HB-11(k) B-28HB- 12(k) Qty: 08	4	Mechanical	Total wt: 3045kg
188	Horizontal Brace (Top Beam) Angle Iron, Steel plate, Channel	DRG NO. 70002/k/16366 B-TB-1(k) , B-TB-4(k) Qty: 02	4	Mechanical	Total wt: 26854kg
189	Access Door with Ladder and Ladding Platform	Drg 70002/K/16723	4	Mechanical	
190	Steel plate	Qty 22	4	Mechanical	Total wt:147.64 kg
191	Steiffner, Nut, Bolt, Washer, Angle Plaate, Handle , Bar & Seal plate		4	Mechanical	Total wt:42.83kg
192	Outled duct of Gas Turbine	Drg 70002/K/16057	4	Mechanical	Total wt:7581kg
193	Chimney of Boiler	Drg 70002/K/16053	4	Mechanical	Total wt:8105.97kg
194	Inlet Duct of Boiler	Drg 70002/K/16046	4	Mechanical	Total wt:11351 kg
195	Bypass of Chimney (Outer Part)	Drg 70002/K/16052	4	Mechanical	Total wt:9091 kg
196	Bypass of Chimney (Inside Part)		4	Mechanical	Total wt:4506kg
197	Lower Ouled Duct	Drg 70002/K/16251	4	Mechanical	Total wt:2127kg
198	Column	DRG No.70002/k/16426 B-C-C2 (k) , B-C-C8 (k) Qty: 02	4	Mechanical	Total wt:3696kg
199	Angle iron+Steel plate	Qty:8+26	4	Mechanical	Total wt:1458kg
200	Column	DRG No.70002/k/16425 B-C-C3 (k) , B-C-B7 (k) Qty: 02	4	Mechanical	Total wt:5779kg
201	Angle iron	Qty:04	4	Mechanical	Total wt:82.4kg
202	Steel plate (Off sizes)	Qty:26	4	Mechanical	Total wt:5676kg
203	Column	DRG No.70002/k/16424 B-C-B2 (k) , B-C-B8 (k) Qty: 02	4	Mechanical	Total wt:3575kg
204	Angle iron	Qty:04	4	Mechanical	Total wt:20.8kg
205	Steel plate (Off sizes)	Qty:24	4	Mechanical	Total wt:3554.8kg
206	Column	DRG No.70002/k/16423 B-C-A3 (k) , B-C-A7 (k) Qty: 02	4	Mechanical	Total wt:1998kg
207	Angle iron	Qty:04	4	Mechanical	Total wt:16kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
208	Steel plate (Off sizes)	Qty:10	4	Mechanical	Total wt:1981.5kg
209	Column	DRG No.70002/k/16422 B-C-A2 (k) , B-C-A8 (k) Qty: 02	4	Mechanical	Total wt:1901kg
210	Steel plate (Off sizes)	Qty:08	4	Mechanical	Total wt:1901kg
211	Column	DRG No.70002/k/16487 B-C-C3 (k) , B-C-C7 (k) Qty: 02	4	Mechanical	Total wt:4270kg
212	Angle iron	Qty:08	4	Mechanical	Total wt:71.2kg
213	Steel plate (Off sizes)	Qty:24	4	Mechanical	Total wt:4198kg
214	Vertical Brace	DRG NO. 70002/k/16439 B-VA-1 (k), B-VA-2 (k) Qty:02	4	Mechanical	Total wt:968.2kg
215	Brace	Qty: 02	4	Mechanical	Total wt:845kg
216	Steel plate	Qty: 06	4	Mechanical	Total wt:845kg
217	Miscellence :	Qty: 20	4	Mechanical	Total wt:246.4
218	Vertical Brace	DRG NO. 70002/k/16439 B-VA-3 (k), B-VA-4 (k) Qty:02	4	Mechanical	Total wt:664.2kg
219	Brace	Qty: 02	4	Mechanical	Total wt:422kg
220	Steel plate	Qty: 08	4	Mechanical	Total wt:490kg
221	Miscellence :	Qty: 20	4	Mechanical	Total wt:418kg
222	Vertical Brace	DRG NO. 70002/k/16430 B-VA-5 (k), B-VA-6 (k) Qty:02	4	Mechanical	Total wt:597.2kg
223	Brace	Qty: 02	4	Mechanical	Total wt:329kg
224	Steel plate	Qty: 08	4	Mechanical	Total wt:417kg
225	Miscellence :	Qty: 20	4	Mechanical	Total wt:289
226	Vertical Brace	DRG NO. 70002/k/16431 B-VB-1 (k), B-VB-2 (k) B-VB-3 (k), B-VB-4 (k)Qty:04	4	Mechanical	Total wt:1167kg
227	Brace	Qty: 04	4	Mechanical	Total wt:921kg
228	Steel plate	Qty: 12	4	Mechanical	Total wt:807kg
229	Miscellence :	Qty: 20	4	Mechanical	Total wt:496kg
230	Vertical Brace	DRG NO. 70002/k/16432 B-VB-5 (k), B-VB-6 (k) Qty:02	4	Mechanical	Total wt:1122kg
231	Brace	Qty: 02	4	Mechanical	Total wt:898.6kg
232	Steel plate	Qty: 08	4	Mechanical	Total wt:807kg
233	Miscellence :	Qty: 20	4	Mechanical	Total wt:439kg
234	Vertical Brace	DRG NO. 70002/k/16433 B-VB-7 (k), B-VB-8 (k) Qty:02	4	Mechanical	Total wt:591.2kg
235	Brace	Qty: 02	4	Mechanical	Total wt:329kg
236	Steel plate	Qty: 08	4	Mechanical	Total wt:417
237	Miscellence :		4	Mechanical	Total wt:441
238	Vertical Brace	DRG NO. 70002/k/16434 B-VC-1 (k), B-VC-2 (k) , B-VC-11 (k), B-VC-12 (k) , B-VC-12 (k), Qty:06	4	Mechanical	Total wt:3067kg
239	Brace	Qty: 06	4	Mechanical	Total wt:2608kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
240	Steel plate	Qty: 30	4	Mechanical	Total wt:2625kg
241	Miscellence :	Qty: 20	4	Mechanical	Total wt:1260kg
242	Vertical Brace	DRG NO. 70002/k/16435 B-VC-13 (k), B-VC-15 (k) , B-VC-05 (k), B-VC-04 (k) , B-VC-14 (k), B-VC-06 (k), Qty:06	4	Mechanical	Total wt:2176kg
243	Brace	Qty: 06	4	Mechanical	Total wt:1546kg
244	Steel plate	Qty: 26	4	Mechanical	Total wt:1765kg
245	Miscellence :		4	Mechanical	Total wt:1058kg
246	Vertical Brace	DRG NO. 70002/k/16435 B-VC-13 (k), B-VC-15 (k) , B-VC-05 (k), B-VC-04 (k) , B-VC-14 (k), B-VC-06 (k), Qty:06	4	Mechanical	Total wt:2176kg
247	Brace	Qty: 06	4	Mechanical	Total wt:1546kg
248	Steel plate	Qty: 26	4	Mechanical	Total wt:1765kg
249	Miscellence :		4	Mechanical	Total wt:1058kg
250	Vertical Brace	DRG NO. 70002/k/16436 B-VC-8 (k), B-VC-7 (k) , B-VC-9 (k), B-VC-16 (k) , B-VC-17 (k), B-VC-18 (k), Qty:06	4	Mechanical	Total wt:1661kg
251	Brace	Qty: 06	4	Mechanical	Total wt:428.5kg
252	Angle Iron	Qty:08	4	Mechanical	Total wt:436kg
253	Steel plate	Qty: 22	4	Mechanical	Total wt:681kg
254	Miscellence :		4	Mechanical	Total wt:1058kg
255	Vertical Brace	DRG NO. 70002/k/16436 B-VC-8 (k), B-VC-7 (k) , B-VC-9 (k), B-VC-16 (k) , B-VC-17 (k), B-VC-18 (k), Qty:06	4	Mechanical	Total wt:1661kg
256	Brace	Qty: 06	4	Mechanical	Total wt:428.5kg
257	Angle Iron	Qty:08	4	Mechanical	Total wt:436kg
258	Steel plate	Qty: 22	4	Mechanical	Total wt:681kg
259	Miscellence :		4	Mechanical	Total wt:1058kg
260	Vertical Brace	DRG NO. 70002/k/16437 B-V2-1-4 (k), B-VB-1-4 (k) Qty:08	4	Mechanical	Total wt:2700kg
261	Brace	Qty: 08	4	Mechanical	Total wt:2340kg
262	Steel plate	Qty: 28	4	Mechanical	Total wt:2214kg
263	Miscellence :		4	Mechanical	Total wt:493kg
264	Vertical Brace	DRG NO. 70002/k/16438 B-V2-5-6 (k), B-VB-5-6 (k) Qty:04	4	Mechanical	Total wt:1801.2kg
265	Brace	Qty: 04	4	Mechanical	Total wt:1336kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
266	Steel plate	Qty: 16	4	Mechanical	Total wt:1438kg
267	Miscellence :		4	Mechanical	Total wt:718kg
268	Sheet	DRG NO. 70002/k/16095 Qty: 03	4	Mechanical	Total wt:2.26kg
269	Stifner	Qty: 03	4	Mechanical	Total wt:3.41kg
270	Sheet	DRG NO. 70002/k/16096 Qty: 01	4	Mechanical	Total wt:129.2kg
271	Stifner	Qty: 03	4	Mechanical	Total wt:4.8kg
272	Cotner II	Corner plate I& II, Plate , connecting plate, DRG No: 70000/k/21809	4	Mechanical	Total wt:24kg
273	Guide I(Plate,Web)	Qty: plate 5, Web 6 DRG No: 7000/k/21821	4	Mechanical	Total wt:51.04kg
274	Guide II (Plate,Web)	Qty: plate 5, Web 6 DRG No: 7000/k/21822	4	Mechanical	Total wt:50.76kg
275	Overhead Crane (Accessories)	DRG NO. 70002/k/10950 Qty: 01 Capacity:16ton+2.5ton	4	Mechanical	Total wt:25000kg
276	Overhead Crane Track (Column & Beam)	DRG NO. 70002/k/10951	4	Mechanical	Total wt:100000kg
277	Bypass inlet duct (Accessories)	DRG NO. 70002/k/16059	4	Mechanical	Total wt:4721kg
278	Tran asion Duct (Accessories)	DRG NO. 70002/k/16293	4	Mechanical	Total wt:1317kg
279	Duck : Casing , Steel Plates	DRG NO. 70002/k/16334	4	Mechanical	Total wt:5848kg
280	Hanger Fitting	DRG NO. 70002/k/16307	4	Mechanical	Total wt:80kg
281	Hanger Fitting	DRG NO. 70002/k/16308	4	Mechanical	Total wt:86kg
282	Foundation structure	DRG NO. 70002/k/16059	4	Mechanical	Total wt: 600000kg
283	Horizontal Brace, angle Iron, Steel plates stc	F-12HB-43(k), F-12HB-44(k) F-12HB-42(k), F-12HB-45(k) DRG NO. 70002/k/16275	4	Mechanical	Total wt:2499.7kg
284	Horizontal Brace, angle Iron, Steel plates stc	F-12HB-28-33(k), F-12HB-52-57(k) DRG NO. 70002/k/16276	4	Mechanical	Total wt:3652.4kg
285	Beam	F-6BA-1-4(k) F-6BD-(k) DRG NO. 70002/k/16279	4	Mechanical	Total wt:4380kg
286	Beam	F-6BA-5(k) F-6BB-6(k) DRG NO. 70002/k/16280	4	Mechanical	Total wt:1658kg
287	Bypass Chimney (Inside parts)	DRG NO. 70002/k/16051	4	Mechanical	Total wt:4505.53kg
288	Middle Chimney (Inside parts)	DRG NO. 70002/k/16033	4	Mechanical	Total wt:941.14kg

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Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
289	Upper Chimney (Inside parts)	DRG NO. 70002/k/16034	4	Mechanical	Total wt:985.6kg
290	Lower Chimney (Inside parts)	DRG NO. 70002/k/16035	4	Mechanical	Total wt:733.84kg
291	Bypass Chimney (out side parts)	DRG NO. 70002/k/16052	4	Mechanical	Total wt:8465.1kg
292	Upper Bypass Chimney (Out side parts)	DRG NO. 70002/k/16036	4	Mechanical	Total wt:3409.7kg
293	Bypass Chimney (Lower)	DRG NO. 70002/k/16037	4	Mechanical	Total wt:5108.5kg
294	Supporter	DRG NO. 70002/k/16038	4	Mechanical	Total wt:1034kg
295	Horizontal Brace(Steel plate, Angle iron)	DRG NO. 70002/k/16274 F-12HB-38--41 (k), F-12HB-48--51 (k) Qty:08	4	Mechanical	Total wt:4313.6kg
296	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16273 F-12HB-24--27 (k), F-12HB-62--62 (k) Qty:08	4	Mechanical	Total wt:1976kg
297	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16272 F-12HB-46--47 (k), F-12HB-9 (k) , F-12HB-14 (k) , Qty:04	4	Mechanical	Total wt:752kg
298	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16271 F-12HA-10--15 (k), F-12HB-34-35 (k) , F-12HB-58-59 (k) , Qty:06	4	Mechanical	Total wt:1661.36kg
299	Column	DRG NO. 70002/k/16262 F-C-A1(k) , F-C-A9(k) , Qty:02	4	Mechanical	Total wt:5522kg
300	Column	DRG NO. 70002/k/16263 F-C-A6(k) , F-C-A4(k) , Qty:02	4	Mechanical	Total wt:5708kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight					
Sr#	Equipment	Description	Unit	Department	Weight
301	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16268 F-12HA-1--4 (k) F-12HA-20-23 (k) Qty:08	4	Mechanical	Total wt:867kg
302	Column	DRG NO. 70002/k/16267 F-C-D4 (k) F-C-D6(k) , Qty:02	4	Mechanical	Total wt:9624kg
303	Column	DRG NO. 70002/k/16266 F-C-D1 (k) F-C-D9(k) , Qty:02	4	Mechanical	Total wt:14562.4kg
304	Column	DRG NO. 70002/k/16265 F-C-84 (k) F-C-86(k) , Qty:02	4	Mechanical	Total wt:10834kg
305	Column	DRG NO. 70002/k/16264 F-C-b1 (k) F-C-b9(k) , Qty:02	4	Mechanical	Total wt:8840kg
306	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16269 F-12HA-5-8 (k) , F-12HA-16-19 (k) , F-12HB-36-37 (k) , F-12HB-60-61 (k) , Qty:12	4	Mechanical	Total wt:2872kg
307	Horizontal Brace (Steel plate, Angle iron)	DRG NO. 70002/k/16270 F-12HA-11-13 (k) , Qty:03	4	Mechanical	Total wt:3172kg
308	Beam F-12BA-1(k) , F-27BA-3(k) 12BA-2(k) , F-27BB-17(k) F-12BD-50(k) , F-12BA-5(k) F- 12BA-6(k) , F-12BA-9(k) , F-12BA-10(k) , F-12BA-7-8(k) , F- 12BA-4-11(k) , F- 12BB-43(k) , F-12BA-12-15(k) , F- 12BB-27-31(k) F-12BB- 35-39(k) F- 12BB-16(k) , F-12BB-18(k) , F-12BB- 19-26(k) , F-12BB-22-13(k) , F- 12BB-20(k) , F-12BB-25(k) , F-12BB-21(k) , F-12BB-24(k) , F-12BB- 32-34(k) , F-12BB-52- 53(k) , F-12BB-40-42(k) , F-12BB-44- 48(k) , F-12BB-16(k) , F-12BD-49(k) , F-12BD-51(k)	DRG NO. 70002/k/16281, DRG NO. 70002/k/16282, DRG NO. 70002/k/16283, DRG NO. 70002/k/16284, DRG NO. 70002/k/16285, DRG NO. 70002/k/16286, DRG NO. 70002/k/16287, DRG NO. 70002/k/16288, DRG NO. 70002/k/16289, DRG NO. 70002/k/16290, DRG NO. 70002/k/16291, DRG NO. 70002/k/16292,	4	Mechanical	Total wt:151663.64kg
309	Boiler Outlet Silencer	DRG NO. 70002/k/10920 Splitters , Quantity: 07	4	Mechanical	Total weight: 2600kg
310	Superheater Relief Valves		4		Total weight: 100kg
311	Assembly of Exhaust Silencer	DRG NO. 70002/k/10923 Splitters , Bracket & sheets	4	Mechanical	Total weight: 7554kg
312			4		
313	Outlet Gas Turbine / Inlet Diverter	DRG NO. 70002/k/10954 Name: MJ/jf Medium: Flue gas Temperature: 525°C Pressure: 400mm WG, Velocity: 31.2 m/sec, Drawing No: 64109-011-1	4	Mechanical	Total wt: 10000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
1	Gas Turbine No.965031 Make: Hitachi Japan	Model:PG.5341P Simple Cycle, Industrial Heavy Duty 2 stage 25MW, Speed: 5143rpm	5	Mechanical	(Turbine Package) 90600kg
2	Generator Hitachi Japan No.IOPO85-692	Make: Hitachi DRG Type: TFB1 LAW-K Manufac: No. 632381163281-1 Capacity: 30250kVA Rated Speed: 3000rpm Rated Voltage: 11kV Cylindrecal Rotor type with Air Cooled	5	Electrical	Stator:50000kg Rotor: 13900kg Dimension: Stator Outside Dimension : 1800mm Rotor Dimension: 786x5128mm
3	UNIT TRANSFORMER (MAKE :HITACHI JAPAN)	Rating:22/29 MVA Voltage: 132/11 KV	5	Electrical	Winding: 45000 kg Tank and Accessories:20000 kg T/F Oil.10000kg
	Auxiliary Equipment for Generator		5	Mechanical	
4	INLET PLENUM		5	Mechanical	Total wt:1200kg
5	Enclosure		5	Mechanical	Total wt:7000kg
6	Atomizing Air Compressor & Piping		5	Mechanical	Total wt:1300kg
7	Coolers	Qty:02	5	Mechanical	Total wt:1500kg
8	Load Reduction Gear	Type & Model: Single Heral VF 56R (Vertically off-set) Manufact: No. Unit No.5 2529 Unit. No.06 2530 Power to be Transmitted: 28000kW Max Power: 31000kW Primar Speed: 5100RPM Secondary Speed: 3000RPM Exact Reducion : 1/1.7115 Make: CIT ALCATEL, FRANCE	5	Mechanical	Total Weight:8000kg
9	Pedestal		5	Mechanical	Total weight is 1200kg
10	Mounting Base		5	Mechanical	Total weight 18200kg
11	Housing		5	Mechanical	Total wt:8000kg
12	Miscellances		5	Mechanical	Total wt:2700kg
13	SSS CLUTCH	Type & Model: SL13858 Make: SSS Gear Ltd England	5	Mechanical	Total weight is 2550
14	Exciter	Type: Static Rating: Capacity 120kW Voltage: 370V Make: Hitachi Ltd Japan	5	Electrical	Total weight 3000
15	Fuel System		5	Mechanical	Total wt:5000kg
16	Fuel Forwarding Skid Pump DRG No. IOQ132-218	Flue: 190 l/min Discharge pressure: 5.5cm ² Design Temp: 4-43c° Bore: Inlet : 50mm Outlet: 40mm Make: Shimadzu Seikusho Ltd. Japan	5	Mechanical	Total wt:1500kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
17	AC Motor	Type & Form :TFOA-KK Totally enclosed Rated output: 7.5kW Rated Voltage: 380V Speed: 3000rpm Make: Hitachi Ltd Japan	5	Electrical	Total weight 100kg
18	D.C Motor	Type & Form :GEER-O Totally enclosed Rated output: 5kW Rated Voltage: 125V D.C Speed: 2500rpm Make: Yasukawa Co Ltd Japan	5	Electrical	Total weight 120
19	Gas Scrubber Skid	Type: Vertical and Cylindrical Vessel Flow rate: 11400 Nm ³ Gas Pressure: 17.58kg/cm ² Gas Temp: 0-65°c Bore: 100mm	5	Mechanical	Total wt:3000kg
20	Gas Flue meter	Flue Rate: 12000 Nm ³ /Hr Normal: 9000 Nm ³ /Hr Min: 1460 Gas Pressure: 17.58kg/cm ² Gas Temp: 0-65°c Bore: 150mm Power Source: A.C 110V,50Hz Make: Okkura Electric Co ltd Japan	5	Mechanical	Total wt:150
21	Gas Strainer	Type: Y Type Screen: 40mesh Bore: 80mm Make: Hitachi Japan	5	Mechanical	Total wt:800kg
22	Unit Auxiliary Transformer Make: HITACHI LTD TOKYO JAPAN	No of Phases:3 Rated Power:22/29MVA Voltage:132kV/11kV Rated Current: 127/1520A Cooling: ONAN, ONAF Insulation Level:650kV Impedance Voltage: 7.95%	5	Electrical	Core (Iron/Steel): 30,000 kg Windings (Copper): 12,000 kg Oil: 6,000 kg Tank and Accessories: 5,000 kg
23	Starting System (Induction Motor)	Type: EFOU-KK output:300kW Speed: 2955rpm Voltage: 3phase, 380v, 50Hz, Ampere.548A	5	Electrical	Total wt:1600kg
24	Pony Motor Make: Hitachi Japan	Type: EFL-Da Rated output: 5000kW Rated Voltage: 380 Frequ:50hz Speed: 2950rpm	5	Electrical	Total wt:3500kg
25	BLOWER FAN	Type & Model: PAW_RH (Single Suction Type) Rated Airflow:290m ³ /min Speed: 980 r.p.m Make: NAKA Shima Seisakusho Japan	5	Mechanical	Iron/Steel: = 1,800 kg Copper (Motor Windings): = 200 kg Other Materials (Aluminum, Bearings, etc.): = 100 kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
26	BIOWER FAN MOTOR	Output: 11kW Speed: 1000 r.p.m Pole: 06 380 v, 50 Hz Electric Co Ltd Japan No of 3 phase, Make: Fuji	5	Electrical	Total weight 200kg
27	LUBRICATING OIL HEATERS	Rating: 2kW x2	5	Mechanical	Total weight 80kg
28	Auxiliary Lube Oil Pump	Type: SVB100 Bore. 100mm Capacity: 14951/min (395 GPM) Discharge Pressure: 4.6kg/cm ² Make: Hitachi	5	Mechanical	Total weight is 400kg
29	ACCESSORY DRIVE GEAR,	Type : F5-B. Power : 556HP. Shaft Speed : 1.F-1R =5100 rpm. 2.F-2R =3600 rpm. 3.AF = 1800 rpm 4.F-4R = 1432 rpm Manufacturing No. : 014 Manufacturing Date : 20 June, 1980. Make : NIPON Gear Co. Ltd, Japan.	5	Mechanical	Total weight 3000kg
30	MAIN C.W.PUMP,GT-5 & 6 (CENTRIFUGAL PUMP).	Type.: HOV Form. CH. Model No. C150 x 125V4-575 Quantity : 4.34 m ³ /min Head : 57 m Speed : 1455 Rpm Power : 75 kW, Manufacturing No. H27506002 Qty: 04 Nos Make Hitachi, Tokyo Japan.	5	Mechanical	Total weight is 1500kg
31	CLUTCH UNIT (MAGNETIC)	Type : NCWO-20SK1 Voltage : 125 DC. Power : 48 Watt. Manufacturing No. 097 Y6R-2 Manufacturing Date : 1980. Make : SHINKO Electric Co, Ltd, Japan.	5	Mechanical	Total weight is 35kg
32	HYDRAULIC TORQUE CONVERTER.	Model : USGN1601-MS600 Spec. No. : 2Z-2467 Serial No. : USGN16022, Manufacturing Date : August, 1978 Make : NIGATA Converter Co, Ltd, Tokyo, Japan.	5	Mechanical	Total weight is 3000kg
33	FUEL OIL PUMP .	Type : FP 132 m-202D2 O No. : 050037 Shimadzu Serial No. : G 83-07 Manufacturing Date : June, 1983. Make : Shimadzu Corporation, KYOTO, Japan.	5	Mechanical	Total weight is 630kg
34	LUBE OIL COOLER	Type : F-2 Form : GTO-135. Cooling Surface Area : 135 m ² . Manufacturing No. U25014 Qty:02 Manufacturing Date : 1980. (Make : HITACHI LTD. TOKYO, Japan)	5	Mechanical	Total weight: 3300kg
35	AIR FILTER FAN.	Type : NV-BD. Capacity : 290 m ³ / min. Speed : 965 rpm. Static Pressure : -110 mmAq. Gas Temperature : 20°C. Item No. : R80-1693, Serial No. : 801188-4. Manufacturing Date : September, 1980. Make:NAKASHIMA Manufac: Co Ltd, Osaka, Japan.	5	Mechanical	Total weight:1650kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
36	MAIN LUBE OIL FILTER.	Type : COF-100SM. Pressure : 120 PSI. Filtration : 5 μ Capacity : 360 Gallon / min. Element Size : 6.1 Pipe Size : 4 B. Element No. : 09. Nitto Drawing No. : CF-0138-2. Manufacturing No. : F-80100 10 Manufacturing Date : 09/09/1980. Make : NITTO Oil Manufacturing Co. Limited, TOKYO, Japan.	5	Mechanical	Total weight:880
37	FUEL H.P FILTER.	Model No. : IMCS3J-H. Design Pressure : 95 kg / cm ² g. Design Temperature : 50°C. Serial No. : V-80060-5. Code : JIS. Fluid Flow Rate : 160 Lit/min. Hydrostatic Test Pressure : 142 kg / cm ² g. Pneumatic Gauge Pressure : Cartridge. Part No. : WHM-003-0. Quantity : 03 each. Design & Fabr: WAKO Industrial Co, Ltd Tokyo, Japan.	5	Mechanical	Total weight:440kg*3=1320kg
38	CONTROL OIL FILTER.	Type : COF-20. Pressure : 120 Psi. Capacity : 8.6 GPM (33 Lit/min). Filtration : 5 μ. Element Size : 4.53 x 11/115 x 280. Element No. : 01. Pipe Size : NPT3/4. Manufacturing No. F-8010043. Date : 20.09.1980. Make : NITTO Oil Machinery Co, Ltd. Tokyo, Japan.	5	Mechanical	Total weight :55kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
39	MAIN LUBE OIL PUMP.	Model No.: PV 320 R-AV1-A10. Serial No. : 38455-82002-40 Manufacturer : DELAVAN TOKYO, Japan.	5	Mechanical	Total weight : 550kg
40	COUPLING OIL FILTER	Type: COF-38-05-25W Capacity: 38 l/min Operating Pressure: Max 8.75 kg/cm ² (125PSI) Filtration: 0.5 Micron Bore: 25mm Qty:02 Nos. Make: Nitto Oil Machinery Co., Ltd Japan	5	Mechanical	Total weight : 50 * 2 = 100kg
41	FUEL OIL L.P FILTER UNIT.	Model No. : FA-2 F11 GJ. Code No. : JIS Serial No. : V-80113-2 Design Pressure : 7 kg / cm ² g. Capacity : 190 Lit/min. Hydrostatic pressure : 105 kg / cm ² g. Fluid : Distilled Oil. Design Temperature : 50°C. Cartridge Part No. : BP-7-18J. Pneumatic Test Pressure : 7 kg / cm ² g. Quantity : 4 x 2 each. Date Built : November, 1980. Designed & Fabricated : WAKO Industrial Co. Ltd. TOKYO, Japan	5	Mechanical	Total weight:730kg*4
42	FTC OIL COOLERS.	Built No. : S-2327. Test Pressure : 15 kg / cm ² . Year Built : 03.10.1980. Make : TAISI, Kogyo Co, Ltd. TOKYO, Japan.	5	Mechanical	Total WEIGHT:500KG
43	LOAD GEAR.	Model No. : VF56RC. Power : 2800 kW. Speed : 5334/3000 rpm. Ratio : 1.7115 Serial No. : 2530. Contract : ZK12200B. Manufacturing Date : 1980. Make : GRAFFENSTADEN Japan.	5	Mechanical	Total weight :7300

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
44	SPEED-UP GEAR.	Type : HCS-025 X. Power Rating : 500 kW. Input Speed : 3000 rpm. Output Speed : 3187 rpm. Ratio : 1.063. Manufacturing No. : 80K31806-2. Technial Drawing No. 350-122030 Manufacturing Date : 1980. Make : Hitachi Limited, Tokyo Japan.	5	Mechanical	Total weight :1200
45	FUEL OIL HEATER.	Type : Package Type. Flow : 170 / min. Design Pressure : 7 kg / cm ² g. Design Control Temperature : 25 ° C to 32 ° C. Power : 75 Kw. Make : SUKEGAWA Electric Co, Ltd. Japan.	5	Mechanical	Appox: 1000kg (Dry)
46	MAIN LUBE OIL PUMP.	Type : Gear Type. Capacity : 380 Lit./min. Discharge Pressure : 8.5 kg / cm ² g. Bore : 100 mm. (Make : DAITO KOGYO Co. Limited, Japan).	5	Mechanical	Total weight : 700kg
47	A.C Motor	Type & Model: FEF-O Totally Enclosed Rated Output: 5.5kW Rated Voltage: 380V Freq: 50Hz No of Poles. 04 Speed: 1500rpm Make: Yasukawa Electro Co ltd Japan	5	Electrical	Total weight : 70kg
48	MAIN LUBE OIL TANK	Capacity : Normal 2 m ³ . Dimensions : 1.8 m x 2.3 x 1 m. Immersion Heater : 5 kW, AC 380 V. Make: Hitachi Japan	5	Mechanical	Total weight : 850kg
49	EMERGENCY LUBE OIL PUMP.	Type : Gear Type. Capacity : 380 Lit./min. Discharge Pressure : 8.5 kg / cm ² g. Bore : 100 mm. Make : DAITO KOGYO Co. Limited, Japan.	5	Mechanical	Total weight:450kg
50	D.C Motor for LO PUMP	Type. DMFX1-5.5 Power: 5.5kW Voltage: 125v (D.C) Speed: 1450rpm Make:	5	Electrical	Total weight:150
51	LUBE OIL HEAT EXCHANGER (DOUBLE).	Type : Multi Tubes Type. Bore for Cooling Water : 65 mm. Bore for Lube Oil : 100 mm. Make : TAISEI KOGYO Co. Limited, Japan.	5	Mechanical	Total weight:800kg
52	CO ₂ Fire Fighting System		5		
53	CO ₂ Cylender	45kg / 681x12	5		
54	Cooling Water System		5		
55	COOLING TOWERS.	Types & Model : VI-100-2 (Wet Type) Manufac No. : 80-0198 to 80-0203 Wet Bulb Temperature : Max: 33°C. Cooling Tower Outlet Water Temp : 38°C. Make : BAC Japan Co, Limited. Manufacturing No Unit: 5 80-0198 80- 0199 80- 0200	5	Mechanical	Total Weight 7800

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
56	SPRAY WATER PUMP	Type : MVL (Centrifugal Type) Capacity : 1135 Liter / min. Head : 3.66 m Aq. Speed : 2860 rpm. Bore : 10/80 MM. Make : DAITO KOGYO Co. Limited, Japan	5	Mechanical	Total weight : 400kg
57	MOTOR	TYPE & FORM: FCKLW/1K Rated output: 2.2kW Voltage: 3phase , 380V, 50Hz Speed: 2860rpm Make: Toshiba Co. ltd Japan	5	Electrical	Total weight : 60kg
58	COOLING WATER CIRCULATING PUMP.	Type & Form : HOV-CH Capacity : 4.340 m ³ /min. Head : 57 m Aq. Speed : 1433 rpm. Bore : 150/125 MM. Make : HITACHI Limited, Japan	5	Mechanical	Total weight : 2500kg
59	Motor	Type & Form: TFOA-KK Rated output: 75kW Rated voltage: 3phase , 380V, 50Hz Speed: 1500rpm Make: Hitachi Co. ltd Japan	5	Electrical	Total weight : 500kg
60	Makeup Water Pump	Centrifugal Type Capacity: 0.38 m ³ /min. Head: 25mtr Bore: 40mm Make: Hitachi Co, Ltd Japan	5	Mechanical	Total weight : 250kg
61	Motor	Type & Form:TFOA-K Rated Output: 2.2kW Volt: 3-ph,380v, 50hz Speed: 3000rpm	5	Electrical	Total weight :45kg
62	Pressure Tank	Capacity: 1.2 m ² Design Pressure: 10kg/cm ²	5	Mechanical	Total weight :3500kg
63	Distillate Water Storage Tank	Capacity : 4m ³	5	Mechanical	Total weight :6000kg
64	Lift Up pump	Type & Form: JOV-CH Capacity: 0.061 m ³ /min. Head: 12m Speed: 1420rpm Make: Hitachi Co Ltd Japan	5	Mechanical	Total weight : 400kg
65	Motor	Type & Form: TFOA-K Rated output: 75kW Rated voltage: 3phase , 380V, 50Hz Speed: 1500rpm Make: Hitachi Co. ltd Japan	5	Electrical	Total weight : 400kg
66	Expantion Tank	Capacity: 1.2 m ²	5	Mechanical	Total weight : 350kg
67	Piping & Instumentation				Total weight :60000kg
68	Control Panels				Total weight :15000kg
69	Foundation Structure				Total weight :60000kg
70	Air inlet System (Air Inlet House)	Type & Model: TSD20-8110 Air flow: 5800 m ³ /min. Pressure drop: 34 ± 5mm Aq Efficiency: 98±2% (ACC DUST) Make: Vilene Japan	5	Mechanical	Total wt:7000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
71	HEAT RECOVERY STEAM GENERATOR (HRSG).	Type : HG-f16968-GT1. Maximum Allowable Working Pressure : 54.3 BarA. Heating Surface Area : 16968 m ² . Rated Steam Generating Capacity : 44.88 Ton/hr. Design Temperature : 515°C. Manufacturing Serial No. 2169. Built Date : 05/1993 Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	5	Mechanical	
72	BOILER DRUM (HRSG).	Service Pressure : 50 Bar A. Design Pressure : 54.3 Bar. Test Pressure : 81 Bar A Design Temperature : 269°C Service Temperature : 264°C Test Temperature : 81°C Code : ASMI 70002/2168/9/1992. Qty: 04 Nos Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	5	Mechanical	Total wt of each:55,578*4=222,312
73	FEED WATER STOP VALVE	Type : J61H-20 PN : 196 Bar DN : 100 mm. Maximum Temperature : 450°C Manufacturing date : 08/1992 Serial No : T9. Make : Harbin Boiler Works, China.	5	Mechanical	Total wt: 100kg
74	MOTORIZED FEED WATER (GLOBE VALVE)	Type : J961a-20 PN : 196 Bar DN : 100 mm. Maximum Temperature : 450°C Manufacturing date : 08/1992 Serial No : T5. Body Material : WCB. Make : Harbin Boiler Works, China.	5	Electro/Mec	Total wt:180kg
75	ECONOMIZER STOP VALVE	Type : J61H-20 PN : 186 Bar DN : 100 mm. Maximum Temperature : 450°C Manufacturing date : 08/1992 Serial No : T8. Body Material : WCB. Qty: 04 Nos Make : Harbin Boiler Works, China.	5	Mechanical	Total wt: 100*4=400
76	L.P. OUTLET CHECK VAVE (N.R.V)	PN : 25 Bar DN : 300 mm. Qty: 04 Nos Manufacturing date : 08/1992 Make : Harbin Boiler Works, China.	5	Mechanical	Total wt: 250*4=1000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
77	DEARATOR Valve (N.R.V)	PN : 25 Bar DN : 300 mm. Manufacturing date : 08/1992 Make : Harbin Boiler Works, China.	5	Mechanical	Total wt: 250kg
78	DEARATOR	DRG No: 70002/k/87451 Make: Harbin Marine Boiler & Turbine research institute work China	5	Mechanical	Total wt: 10953.0
79	STEAM TRAP	Type : HRW150. Code : LRA61AA201. Maximum Temperature : 550°C. Maximum Pressure : 15 MPa. DN : 25 mm. Manufacturing date : 06/1992 Make : Beijing Valve Qty: 08 Nos Manufacturing, China.	5	Mechanical	Total weight : 15x8=120
80	EMERGENCY BLOWDOWN VALVE (MOTOR OPERATED)	PN : 25 Bar DN : 300 mm. Manufacturing date : 08/1992 Make : Harbin Boiler Works, China.	5	Electro/Mec	Total weight :600kg
81	HP Economizer Assembly		5		
82	Header HP Economizer inlet and outlet	Qty: 02 Nos DRG: NO.U301.150K	5	Mechanical	Total wt:436kg
83	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 576 Nos	5	Mechanical	Total wt:22694.4kg
84	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 12 Nos	5	Mechanical	Total wt:2851.2kg
85	TUBE SHEETS	DRG: NO. U301.140K Qty: 12 Nos	5	Mechanical	Total wt:2524.8kg
86	LP Evaporator Assembly	Drawing No. 70002/K/21790 In header LP Evaporator, Out header LP Evaporator, finned tubes, Return Bands, Head Lock, Header Connection, Plate Qty (1+1+216+108+12+72+72+72+1+1+1+1+3 2)	5	Mechanical	Total wt:15760.88
87	Header Connection, Lock, Tube Bend, Plate		5	Mechanical	Total wt:712.08kg
	HP 2 Evaporator Assembly		5	Mechanical	
88	Out Header HP Evaporator	DRG: NO. U301-149K Qty: 01 No	5	Mechanical	Total wt:403kg
89	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 432 Nos	5	Mechanical	Total wt:18187.2kg
90	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	5	Mechanical	Total wt:4568.4kg
91	Header Connection, Tube Sheets, Return bends		5	Mechanical	Total wt:2872.88kg
	HP 1 Evaporator Assembly		5	Mechanical	
92	In Header HP Evaporator	Dia: 219mm, Thickness:15mm, Qty: 01 No. DRG NO-U301-148K	5	Mechanical	Total wt:413.5kg
93	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	5	Mechanical	Total wt:4568.4kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
94	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 540 Nos	5	Mechanical	Total wt:22734kg
95	Return bends	Dia: 31.8mm, Thickness: 3.2mm, Qty.(36+36+36+180+180+180) Nos	5	Mechanical	Total wt:1231.2kg
96	Header Connection, Lock, Tube Sheets, Plate	Qty: (1+1+12+3+32)	5	Mechanical	Total wt:4847.88kg
	Situation Boxes and Expansion Joints		5	Mechanical	
97	Closed boxe and Expansion Joints	DRG: NO. U301.539K Qty: (1+3+3+1+2) Nos	5	Mechanical	Total wt:501.3kg
98	Closed boxe	Qty: 04 Nos	5	Mechanical	Total wt:316.6kg
	Inlet Header HP Evaporator		5	Mechanical	
99	Shell	Dia: 29x15 Length.3018mm. Qty: 01 No	5	Mechanical	Total wt:227.8kg
100	Fixed plate	Length into Breadth: 50x70 Qty: 04 Nos	5	Mechanical	Total wt:02kg
101	Tube	Dia.31.8x3.2 Qty:108 Nos	5	Mechanical	Total wt:162kg
102	Flat	Qty: 01 No, DRG No.U301.184K	5	Mechanical	Total wt:10.7kg
	Outlet Header LP Evaporator	DRG No 70002/k/21789	5	Mechanical	
103	Shell	Dia: 325x13, Length:3818 mm Qty: 1	5	Mechanical	Total wt:301.9 kg
104	Flat	Qty : 1	5	Mechanical	Total wt:16.9 kg
105	Tube	Dia 38x2.9 mm Qty : 108	5	Mechanical	Total wt:147.6 kg
106	Internal of Drum (Section E)	Drawing No. 70002/K/21713	5	Mechanical	Total wt:500.34 kg
107	Internal of Drum (Section A-A, B-B, D-D)	Drawing No. 70002/K/21714	5	Mechanical	Total wt:
108	General Arrangement of Steam Drum	Drawing No. 70002/K/21700	5	Mechanical	Total wt:
109	Shell	Dia 1876x38 Length : 2250 m Qty: 02	5	Mechanical	Total wt:7671 kg
110	Head, Access Door Anti-seismic Block	DRG No. U301.018K (Qty : 1+3+1+1+1+3+11+1+1+1+2)	5	Mechanical	Total wt:3612 kg
111	Nozzels		5	Mechanical	Total wt:338.54 kg
112	Drum Hanger & Guide	Drawing No. 70002/K/21813 (Clamping, Pin, Tie Plate, Hanger, Cone wahser, Spherical Washer, Nutt, Guide-1&2)	5	Mechanical	Total wt:680.704 kg
113	Closed Boxe & Expansion Joints	Drawing No. 70002/K/16179 Closed plate, plate, web, plate, plate, expension joits, screws	5	Mechanical	Total wt:49.73 kg
114	Closed Boxe & Expansion Joints	Drawing No. 70002/K/16180 Closed plate, plate, web, plate, plate, expension joints, screws	5	Mechanical	Total wt:53.33 kg
115	Closed Boxe & Expansion Joints	Drawing No. 70002/K/16181 Closed plate, plate, web, plate, plate, expension joints, screws	5	Mechanical	Total wt:57.57 kg
116	Closed Boxe & Expansion Joints	Drawing No. 70002/K/16178 Closed plate, plate, web, plate, plate, expension joints, screws	5	Mechanical	Total wt:46.02 kg
117	Closed Boxe	Drawing No. 70002/K/16186 Closed plate, plate, web, plate, screws	5	Mechanical	Total wt:47.4kg
118	Closed Plate	Drawing No. 70002/K/16182 Guide plate, plate, web, plate	5	Mechanical	Total wt:10.99kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
119	Closed Boxe	Drawing No. 70002/K/16187 Closed plate, plate, web, plate, screws	5	Mechanical	Total wt:47.4kG
120	Seal Plate	Drawing No. 70002/K/16239 Sheet, Sheet, Bull tray, Gusset Qty: (18+3+3+12+2+2+36+12)	5	Mechanical	Total wt:565.76
121	Deflectors	Drawing No. 70002/K/16240 Steel Plate Qty: (12+12+18+12)	5	Mechanical	Total wt:688 kg
122	Anti Vibration Sheet Assembly	Drawing No. 70002/K/16091 Sheet,Door,Screw,nut,blade Qty: (3+2+1+2+1+2+1+1+4+2+36+36+36+36+4+3)	5	Mechanical	Total wt:1933.724 kg
123	Inlet and outlet header of Economiser	Drawing No. 70002/K/21795 Shell, Flat, tube, fixing plate Qty (1+1+18+18+4)	5	Mechanical	Total wt:213.4 kg
124	Outled Header of HP Evaporator	Drawing No. 70002/K/21794 Shell, Fixing Plate, tube, plate Qty (1+4+18+18+18+18+18+18)	5	Mechanical	Total wt:391.8 kg
125	Complete Suspension	Drawing No. 70002/K/16276 Pin, Strap, Nutt, Suspension, Pin, Washer Qty (2+1+1+1+1+1+2+2)	5	Mechanical	Total wt:18.295 kg
126	Support for suit blowers	Drawing No. 70002/K/21852 Tole, Plate, Screw, Nutt Qty (1+2+2+8+8)	5	Mechanical	Total wt:16 kg
127	Flange of Roof	Drawing No. 70002/K/21812 Plate of roof, stiffner, flange, plate Qty (2+4+6+24)	5	Mechanical	Total wt:744.32 kg
128	Guide-I	Drawing No. 70002/K/21821 Plate, web, Qty (2+6+1+2)	5	Mechanical	Total wt:51.04 kg
129	Guide-II	Drawing No. 70002/K/21822 Plate, web, Qty (2+2+1+2+4)	5	Mechanical	Total wt:50.76 kg
130	Heating Surface Hanging Assembly	Drawing No. 70002/K/16159 Tightening, Screw, Plate, Complete Suspension & Nutt Qty (18+96+96+96+24+48+24+6+24+192)	5	Mechanical	Total wt:1662.94 kg
	Boiler Structure	DRG No 70002/k/16593			
131	Beam	B-27BE 9(k), B-27BE-12(k) B- 27BE-2(k), B-27BE-24(k) B- 27BE-14(k), B-27BE-15(k) B- 27BE-26(k), B-27BE-27(k) B- 27BE-13(k), B-27BE-25(k) B- 27BE-16(k), B-27BE-28(k) Beam 04 Qty	5	Mechanical	Total wt:4806kg
132	Steel Plate	DRG No YT15-502 Qty: (4+4+4+8+12+4+4+4+28+2+2+2+2+2+2)	5	Mechanical	Total wt:4529.8kg
133	Beam	DRG No.70002/k/16594 B- 27BE 17(k), B-27BE-20(k) B- 27BE-29(k), B-27BE-32(k)	5	Mechanical	Total wt:884kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
134	Steel Plate	DRG No YT15-502 Qty: (16+16+8+8+8+16)	5	Mechanical	Total wt:872kg
135	Beam	DRG No.70002/k/16595 B- 27BF-36(k), B-27BF-37(k) B- 27BF-38(k), B-27BF-39(k) B- 27BG-41(k) Qty: (2+2+1)	5	Mechanical	Total wt:6622kg
136	Steel Plate	DRG No YT15-502 Qty: (8+2+2+2+2+2+2+1)	5	Mechanical	Total wt:5716.7kg
137	Beam	DRG No.70002/k/16592 B- 27BE-5(k), B-27BE-7(k) B- 27BE-4(k), B-27BE-8(k) B- 27BE-10(k),B-27BE-10(k), B-27BE-22(k),B-27BE-23(k) Qty: (2+2+1)	5	Mechanical	Total wt:6622kg
138	Steel Plate	DRG No YT15-502 Qty: (8+2+2+2+2+2+2+1)	5	Mechanical	Total wt:5716.7kg
139	Beam	DRG No.70002/k/16591 B- 27BG-40(k), B-27BG-42(k) B- 27BE-2(k), B-27BF-34(k) Qty: (2+1+1)	5	Mechanical	Total wt:2954kg
140	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+1+1+1+1)	5	Mechanical	Total wt:2892.7kg
141	Beam	DRG No.70002/k/16591 B- 27BG-40(k), B-27BG-42(k) B- 27BE-2(k), B-27BF-34(k) Qty: (2+1+1)	5	Mechanical	Total wt:2954kg
142	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+1+1+1+1)	5	Mechanical	Total wt:2892.7kg
143	Beam	DRG No.70002/k/16590 B- 27BE-1(k), B-27BE-3(k) B- 27BF-33(k), B-27BF-35(k), B- 27BE-6(k) Qty: (2+2+1)	5	Mechanical	Total wt:2356kg
144	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+2+2+1+1+2+1)	5	Mechanical	Total wt:2106.8kg
145	Beam	DRG No.70002/k/16589 B- 23BF-21(k), B-23BF-22(k) Qty: (1+1)	5	Mechanical	Total wt:640kg
146	Steel Plate	DRG No YT15-502 Qty: (1+1+1+1+1+1+3+2)	5	Mechanical	Total wt:301.3kg
147	Beam	DRG No.70002/k/16588 B- 23BF-15(k), B-23BF-26(k), B- 23BF-11(k), B-23BF-23(k) Qty: (2+2)	5	Mechanical	Total wt:3171kg
148	Steel Plate	DRG No YT15-502 Qty: (4+2+2+2+2)	5	Mechanical	Total wt:3003kg
149	Beam	DRG No.70002/k/16587 B- 23BF-8(k), B-23BF-25(k), B- 23BG-16(k) Qty: (2+1)	5	Mechanical	Total wt:1554.8kg
150	Steel Plate	DRG No YT15-502 Qty: (4+2+1+1+1)	5	Mechanical	Total wt:3897.1kg
151	Beam	DRG No.70002/k/16586 B- 23BF-10(k), B-23BF-09(k), B-23BF-7(k) Qty: (1+1+1)	5	Mechanical	Total wt:1893kg
152	Steel Plate	DRG No YT15-502 Qty: (2+2+5+1+1+1+2+1)	5	Mechanical	Total wt:1524.1kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
153	Beam	DRG No.70002/k/16585 B-23BF-12(k), B-23BF-13(k), B-23BF-14(k), B-23BF-20(k) B-23BF-6(k) Qty: (1+1+1+2)	5	Mechanical	Total wt:691kg
154	Steel Plate	DRG No YT15-502 Qty: (1+1+1+1+1+1+1+1+2+2+2)	5	Mechanical	Total wt:635.6kg
155	Beam	DRG No.70002/k/16584 B-23BF-4(k) Qty: (1)	5	Mechanical	Total wt:1456kg
156	Steel Plate	DRG No YT15-502 Qty: (2+1+2+1+1)	5	Mechanical	Total wt:1381.1kg
157	Beam	DRG No.70002/k/16583 B-23BE-2(k) Qty: (1)	5	Mechanical	Total wt:1416kg
158	Steel Plate	DRG No YT15-502 Qty: (2+1+2+1+2)	5	Mechanical	Total wt:1388.3kg
159	Beam	DRG No.70002/k/16582 B-23BE-1(k) , B-23BE-18(k), B-23BF-3(k) , B-23BF-19(k) , B-23BG-17(k), B-23BG-24(k), B-23BF-5(k) Qty: (2+2+2+1)	5	Mechanical	Total wt:2776kg
160	Steel Plate	DRG No YT15-503 Qty: (4+2+4+2+4+2+2+1)	5	Mechanical	Total wt:2656.6kg
161	Beam	DRG No.70002/k/16581 B-19BG-20(k) , B-19BG-19(k), B-21BG-1(k) , B-25BG-1(k) , Qty: (2+2)	5	Mechanical	Total wt:3070kg
162	Steel Plate	DRG No YT15-503 Qty: (2+2+2+4+2)	5	Mechanical	Total wt:2971kg
163	Beam	DRG No.70002/k/16580 B-19BF-16(k) , B-19BF-17(k), Qty: (2)	5	Mechanical	Total wt:3156kg
164	Steel Plate	DRG No YT15-503 Qty: (4+2+2+4+4+4+2)	5	Mechanical	Total wt:3101kg
165	Beam	DRG No.70002/k/16579 B-19BF-15(k) , B-19BF-18(k), Qty: (2)	5	Mechanical	Total wt:3148kg
166	Steel Plate	DRG No YT15-503 Qty: (4+2+2+4+4+4+2)	5	Mechanical	Total wt:2315.3kg
167	Beam	DRG No.70002/k/16578 B-19BE-5(k) , B-19BE-6(k), B-19BF-13(k), Qty: (2+1)		Mechanical	Total wt:3259kg
168	Steel Plate	DRG No YT15-503 Qty: (4+2+2+1+1+2+2+2+1)		Mechanical	Total wt:3149.8kg
169	Beam	DRG No.70002/k/16577 B-19BE-4(k) , B-19BE-7(k), B-19BE-2(k), Qty: (2+1)	5	Mechanical	Total wt:3235kg
170	Steel Plate	DRG No YT15-503 Qty: (4+2+2+2+2+1+1+2+1)	5	Mechanical	Total wt:3153.1kg
171	Beam	DRG No.70002/k/16576 B-19BE-8(k) , B-19BE-9(k), B-19BF-14(k), B-19BE-10(k), B-19BE-11(k), B-19BF-12(k), B-19BE-3(k), B-19BE-1(k), Qty: (4+2+2)	5	Mechanical	Total wt:3482kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
172	Steel Plate	DRG No YT15-503 Qty: (4+4+4+16+2+2+2+2+2+2)	5	Mechanical	Total wt:3294.4kg
173	Beam	DRG No.70002/k/16575 16BG-27(k) , B-16BF-28(k), Qty: (1+2)	B-5	Mechanical	Total wt:4319kg
174	Steel Plate	DRG No YT15-503 Qty: (2+1+4+8+2)	5	Mechanical	Total wt:4222.3kg
175	Beam	DRG No.70002/k/16574 16BF-22(k) , B-16BF-23(k), Qty: (1+1)	B-5	Mechanical	Total wt:4992kg
176	Steel Plate	DRG No YT15-503 Qty: (2+1+1+4+1+2+1+1+4+1+1)	5	Mechanical	Total wt:4868.8kg
177	Beam	DRG No.70002/k/16573 16BF-21(k) , B-16BF-24(k), Qty: (1+1)	B-5	Mechanical	Total wt:2455kg
178	Steel Plate	DRG No YT15-503 Qty: (1+1+1+6+2+1)	5	Mechanical	Total wt:2398.6kg
179	Beam	DRG No.70002/k/16572 16BF-19~14(k) , 16BF-18~20(k), 16BF-25,26(k) Qty: (2+2)	B-5 B- B-	Mechanical	Total wt:360kg
180	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+2+2)	5	Mechanical	Total wt:321.2kg
181	Beam	DRG No.70002/k/16571 16BF-5(k) , Qty: (1)	B-5	Mechanical	Total wt:3632kg
182	Steel Plate	DRG No YT15-503 Qty: (2+1+8+4)	5	Mechanical	Total wt:3534.6kg
183	Beam	DRG No.70002/k/16570 16BE-1(k) , B-16BE-4(k), 16BF-6(k) , B-16BE-8(k), 16BE-15(k) , B-16BE-17(k), Qty: (2+2+2)	B-5 B- B-	Mechanical	Total wt:2003kg
184	Steel Plate	DRG No YT15-503 Qty: (4+2+4+2+2+2+2)	5	Mechanical	Total wt:1926.6kg
185	Horizontal Brace	DRG No.70002/k/16569 B-27HE-13(K), B-27HE-14(K) , B- 27HE-15(K) , B-27HE-16(K) Qty: (2+2)	5	Mechanical	Total wt:2031kg
186	Angle Iron + Steel Plate	Qty: (4+) + (2+8)	5	Mechanical	Total wt:951.4kg + 43.4kg
187	Horizontal Brace	DRG No.70002/k/16568 B-27HE-9(K), B-27HE-12(K) , B- 27HE-25(K) , B-27HE-28(K) Qty: (4+4)	5	Mechanical	Total wt:444kg
188	Angle Iron + Steel Plate	Qty: (8+8) + (4+4+4+4)	5	Mechanical	Total wt:276kg + 136.8kg
189	Horizontal Brace	DRG No.70002/k/16567 B-27HE-5(K), B-27HE-8(K) , B- 27HE-21(K) , B-27HE-24(K) Qty: (8)	5	Mechanical	Total wt:536kg
190	Angle Iron + Steel Plate	Qty: (16) + (8+8+8)	5	Mechanical	Total wt:188.8kg + 220kg
191	Horizontal Brace	DRG No.70002/k/16566 B-27HE-1(K), B-27HE-4(K) , B- 27HE-17(K) , B-27HE-20(K) Qty: (4+4)	5	Mechanical	Total wt:424kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
192	Angle Iron + Steel Plate	Qty: (8+8) + (4+4+4+4)	5	Mechanical	Total wt:276kg + 102.8kg
193	Horizontal Brace	DRG No.70002/k/16565 B-23HF-5(K), B-23HF-5(K) , B-23HF-6(K) , B-23HF-6(K) Qty: (2+2)	5	Mechanical	Total wt:989kg
194	Angle Iron + Steel Plate	Qty: (4+4) + (2+2+6+6+2+2)	5	Mechanical	Total wt:276kg + 113.2kg
195	Horizontal Brace	DRG No.70002/k/16564 B-23HF-1(K), B-23HF-1(K) B-23HF-2(K), B-23HF-2(K) , B-23HF-3(K) , B-23HF-3(K) B-23HF-4(K), B-23HF-24K) Qty: (2+2+4)	5	Mechanical	Total wt:1132kg
196	Angle Iron + Steel Plate	Qty: (4+4+8) + (2+2+4+4+2+2+4+4)	5	Mechanical	Total wt:862.8kg + 157.8kg
197	Horizontal Brace	DRG No.70002/k/16563 B-16HF-15(K), B-16HF-19(K) B-16HF-20(K), Qty: (1+1+1)	5	Mechanical	Total wt:289kg
198	Angle Iron + Steel Plate	Qty: (2+2+2) + (1+1+1+1+1+1+1+1)	5	Mechanical	Total wt:181kg + 66.6kg
199	Horizontal Brace	DRG No.70002/k/16562 B-16HF-8(K), B-16HF-9(K) B-16HF-10(K), Qty: (1+1)	5	Mechanical	Total wt:179kg
200	Angle Iron + Steel Plate	Qty: (2+2) + (4)	5	Mechanical	Total wt:105.4kg + 53.2kg
201	Horizontal Brace	DRG No.70002/k/16561 B-16HF-6(K), B-16HF-7(K) B-16HF-11(K), B-16HF-12(K), B-16HF-13(K), B-16HF-14(K), Qty: (6)	5	Mechanical	Total wt:582kg
202	Angle Iron + Steel Plate	Qty: (12) + (16)	5	Mechanical	Total wt:373.6kg + 136.2kg
203	Horizontal Brace	DRG No.70002/k/16560 B-16HF-1~5(K), B-16HF-16~18(K) Qty: (8)	5	Mechanical	Total wt:771kg
204	Angle Iron + Steel Plate	Qty: (12) + (29)	5	Mechanical	Total wt:496.4kg + 188.6kg
205	Horizontal Brace	DRG No.70002/k/16560 B-16HF-1~5(K), B-16HF-16~18(K) Qty: (8)	5	Mechanical	Total wt:771kg
206	Angle Iron + Steel Plate	Qty: (12) + (29)	5	Mechanical	Total wt:496.4kg + 188.6kg
207	Column	DRG No.70002/k/16553 B-C-F13 (k) , B-C-F17 (k) Qty: 02	5	Mechanical	Total wt:8135kg
208	Angle Iron + Steel Plate	Qty: (8) + (24)	5	Mechanical	Total wt:82.4kg + 7994.4kg
209	Column	DRG No.70002/k/16552 B-C-F12 (k) , B-C-F18 (k) Qty: 02	5	Mechanical	Total wt:3575kg
210	Angle Iron + Steel Plate	Qty: (4) + (20)	5	Mechanical	Total wt:20.8 + 3525.2kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
211	Column	DRG No.70002/k/16554 B-C-G12 (k) , B-C-G18 (k) Qty: 02	5	Mechanical	Total wt:3696kg
212	Angle Iron + Steel Plate	Qty: (8) + (24)	5	Mechanical	Total wt:41.6 kg + 3619.2kg
213	Column	DRG No.70002/k/16553 B-C-G13 (k) , B-C-G17 (k) Qty: 02	5	Mechanical	Total wt:4270kg
214	Angle Iron + Steel Plate	Qty: (8) + (24)	5	Mechanical	Total wt:71.2kg + 4162.6kg
215	Tube Sheet	Drawing No. 70002/K/21854 Tube Sheet, Web, Plate Qty (1+2+4)	5	Mechanical	Total wt:104.36 kg
216	Feed Water Deaerator	Type: GC-175	5	Mechanical	Total wt:25775 kg
217	Boiler Outlet Silencer	DRG No 70002/k/10920	5	Mechanical	Total wt:2600 kg
218	Exhaust Silencer	DRG No 7002/k/10922	5	Mechanical	Total wt:7900 kg
219	Swing Check valve	DN: 150mm , PN: 90mbar 04 Nos	Qty: 5	Mechanical	Total wt:07 kg each
220	Horizontal Brace	DRG No.70002/k/16356 F- 12HE-6 (K), F-12HE-5 (K), F- 12HE-8 (K),F-12HE-17 (K), F- 12HE-16 (K), F-12HE-19 (K) Qty: (6)	5	Mechanical	Total wt:502kg
221	Angle Iron + Steel Plate	Qty: (50)	5	Mechanical	Total wt:535.8
222	Horizontal Brace	DRG No.70002/k/16355 F- 12HE-1 (K), F-12HE-2 (K), F- 12HE-3 (K),F-12HE-4 (K), F- 12HE-7 (K), F-12HE-18 (K) Qty: (6)	5	Mechanical	Total wt:775kg
223	Angle Iron + Steel Plate	Qty: (38)	5	Mechanical	Total wt:321.8
224	Horizontal Brace	DRG No.70002/k/16359 F- 12HF-37 (K), F-12HF-20 (K), F-12HF-36 (K), F-12HF-21 (K), F-12HF-39 (K), F-12HF-22 (K) F- 12HF-38 (K), F-12HF-23 (K) Qty: (8)	5	Mechanical	Total wt:1386kg
225	Angle Iron + Steel Plate	Qty: (92)	5	Mechanical	Total wt:1386kg
226	Column	DRG No.70002/k/16353 F-C- H 14 (K), F-C-H 16 (K), Qty: (2)	5	Mechanical	Total wt:5267kg
227	Angle Iron + Steel Plate	Qty: (10)	5	Mechanical	Total wt:5267kg
228	Horizontal Brace	DRG No.70002/k/16357 F- 12HE-9 (K), F-12HE-10 (K), F- 12HE-11 (K), Qty: (1)	5	Mechanical	Total wt:853kg
229	Angle Iron + Steel Plate	Qty: (11)	5	Mechanical	Total wt:842.2kg
230	Beam	DRG No.70002/k/16381 F- 12BF-16(k) , F-12BF-28(k), Qty: (2)	5	Mechanical	Total wt:2805kg
231	Steel Plate	DRG No YT15-503 Qty: (15)	5	Mechanical	Total wt:2813kg
232	Beam	DRG No.70002/k/16382 F- 12BF-17(k) , F-12BF-27(k), Qty: (2)	5	Mechanical	Total wt:7534kg
233	Steel Plate	DRG No YT15-503 Qty: (26)	5	Mechanical	Total wt:7534kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
234	Beam	DRG No.70002/k/16380 F-12BE-13(k) Qty:	5	Mechanical	Total wt:7534
235	Steel Plate	DRG No YT15-503 Qty: (14)	5	Mechanical	Total wt:3124kg
236	Beam	DRG No.70002/k/16379 F-12BE-9(k) Qty:	5	Mechanical	Total wt:
237	Steel Plate	DRG No YT15-503 Qty: (16)	5	Mechanical	Total wt:3612.9kg
238	Beam	DRG No.70002/k/16378 F-12BE-7(k) , F-12BE-6(k), Qty: (2)	5	Mechanical	Total wt:2402kg
239	Steel Plate	DRG No YT15-503 Qty: (22)	5	Mechanical	Total wt:2051kg
240	Beam	DRG No.70002/k/16375 F-12BE-2(k) , F-12BE-1(k), Qty: (2)	5	Mechanical	Total wt:1702kg
241	Steel Plate	DRG No YT15-503 Qty: (17)	5	Mechanical	Total wt:1662kg
242	Beam	DRG No.70002/k/16377 F-12BE-12(k) , F-12BE-8(k), F-12BE-4(k), Qty: (2)	5	Mechanical	Total wt:1085kg
243	Steel Plate	DRG No YT15-503 Qty: (12)	5	Mechanical	Total wt:791kg
244	Beam	DRG No.70002/k/16376 F-12BE-5(k) , F-12BE-3(k), Qty: (2)	5	Mechanical	Total wt:1690kg
245	Steel Plate	DRG No YT15-503 Qty: (21)	5	Mechanical	Total wt:1564kg
246	Horizontal Brace	DRG No.70002/k/16360 F-12HF-26 (K), F-12HF-43 (K), F-12HF-27 (K), F-12HF-42 (K), F-12HF-24 (K), F-12HF-41 (K) F-12HF-25 (K), F-12HF-40 (K) Qty: (8)	5	Mechanical	Total wt:1394kg
247	Angle Iron + Steel Plate	Qty: (85)	5	Mechanical	Total wt:1627.8kg
248	Horizontal Brace	DRG No.70002/k/16362 F-12HF-35 (K), F-12HF-31 (K) F-12HF-34 (K), F-12HF-30 (K) Qty: (4)	5	Mechanical	Total wt:1556kg
249	Angle Iron + Steel Plate	Qty: (42)	5	Mechanical	Total wt:776.8kg
250	Horizontal Brace	DRG No.70002/k/16361 F-12HF-29 (K), F-12HF-33 (K) F-12HF-28 (K), F-12HF-32 (K) Qty: (2)	5	Mechanical	Total wt:441kg
251	Angle Iron + Steel Plate	Qty: (21)	5	Mechanical	Total wt:234.3kg
252	Beam	DRG No.70002/k/16383 F-12BF-19 k) , F-12BF-25 (k), Qty: (2)	5	Mechanical	Total wt:12617kg
253	Steel Plate	DRG No YT15-503 Qty: (24)	5	Mechanical	Total wt:12523.6kg
254	Beam	DRG No.70002/k/16384 F-12BF-20 k) , F-12BF-24 (k), Qty: (2)	5	Mechanical	Total wt:3178kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
255	Steel Plate	DRG No YT15-503 Qty: (11)	5	Mechanical	Total wt:3147.76kg
256	Beam	DRG No.70002/k/16385 F- 12BF-21 k) , F-12BF-18.26 (k), F- 12BF-23 k) Qty: (3)	5	Mechanical	Total wt:1657kg
257	Steel Plate	DRG No YT15-503 Qty: (13)	5	Mechanical	Total wt:1571kg
258	Beam	DRG No.70002/k/16386 F- 12BF-22 k) , F-12BF-64 k) Qty: (2)	5	Mechanical	Total wt:3104kg
259	Steel Plate	DRG No YT15-503 Qty: (6)	5	Mechanical	Total wt:3058.4kg
260	Beam	DRG No.70002/k/16387 F- 12BF-16 k) , Qty: (1)	5	Mechanical	Total wt:8080
261	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (17)	5	Mechanical	Total wt:8079.1kg
262	Beam	DRG No.70002/k/16388 F- 12BF-38 ,58 k) , F-12BF-30,32,59,61 (k), F-12BF-33,62 k), F-12BF-31,60, k) , F-12BF-39,40,41) , F-12BF- 50,51, 52) ,F-12BF-42,53 Qty: (18)	5	Mechanical	Total wt:1129kg
263	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (142)	5	Mechanical	Total wt:1117.4kg
264	Beam	DRG No.70002/k/16389 F- 12BF-34,54 k) , F-12BF-37,57 k) Qty: (4)	5	Mechanical	Total wt:1855kg
265	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (34)	5	Mechanical	Total wt:1528.4kg
266	Beam	DRG No.70002/k/16390 F- 12BF-35,56 k) , F-12BF-36,55 k) , F- 12BF-48 k) Qty: (5)	5	Mechanical	Total wt:1044kg
267	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (37)	5	Mechanical	Total wt:1028.6kg
268	Beam	DRG No.70002/k/16391 F- 12BF-43 k) , F-12BF-47 k) Qty: (2)	5	Mechanical	Total wt:1622kg
269	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (15)	5	Mechanical	Total wt:1573.9kg
270	Beam	DRG No.70002/k/16392 F- 12BF-46 k) , F-12BF-44 k) , F- 12BF-45 k) Qty: (3)	5	Mechanical	Total wt:1622kg
271	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (15)	5	Mechanical	Total wt:1573.9kg
272	Beam	DRG No.70002/k/16393 F- 12BF-49 k) , Qty: (1)	5	Mechanical	Total wt:344
273	Angle Iron	Qty: (4)	5	Mechanical	Total wt:321.6kg
274	Steel Plate	DRG No YT15-503 Qty: (13)	5	Mechanical	Total wt:7422.2kg
275	Beam	DRG No.70002/k/16394 F- 12BH-63 k) , F-12BH-65 k) , Qty: (2)	5	Mechanical	Total wt:8222kg
276	Angle Iron	Qty: (8)	5	Mechanical	Total wt:482kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
277	Steel Plate	DRG No YT15-503 Qty: (16)	5	Mechanical	Total wt:9853.6kg
278	Beam	DRG No.70002/k/16395 F- 12BE-10 k), F-12BE-14 k), F- 12BE-11 k), F-12BE-15 k) Qty: (4)	5	Mechanical	Total wt:1066kg
279	Angle Iron	Qty: (16)	5	Mechanical	Total wt:131.2kg
280	Steel Plate	DRG No YT15-503 Qty: (12)	5	Mechanical	Total wt:934.8kg
281	Beam	DRG No.70002/k/16398 F- 6BE-1-4 k), Qty: (4)	5	Mechanical	Total wt:2198kg
282	Angle Iron	Qty: (16)	5	Mechanical	Total wt:33.6kg
283	Steel Plate	DRG No YT15-503 Qty: (44)	5	Mechanical	Total wt:1803.2kg
284	Beam	DRG No.70002/k/16399 F- 6BF-6 k), Qty: (1)	5	Mechanical	Total wt:620kg
285	Angle Iron	Qty: (5)	5	Mechanical	Total wt:8.4kg
286	Steel Plate	DRG No YT15-503 Qty: (15)	5	Mechanical	Total wt:599kg
287	Beam	DRG No.70002/k/16400 F- 6BH-7 k), Qty: (1)	5	Mechanical	Total wt:615kg
288	Angle Iron	Qty: (4)	5	Mechanical	Total wt:8.4kg
289	Steel Plate	DRG No YT15-503 Qty: (15)	5	Mechanical	Total wt:593.1kg
290	Beam	DRG No.70002/k/16400 F- 6BE-5 k), Qty: (1)	5	Mechanical	Total wt:452kg
291	Angle Iron	Qty: (4)	5	Mechanical	Total wt:8.4kg
292	Steel Plate	DRG No YT15-503 Qty: (12)	5	Mechanical	Total wt:522.5kg
293	INLET Duct Right and Left face	DRG No.70002/k/16046 Qty: (02)	5	Mechanical	Total wt:6234kg
294	INLET Duct Bottom plate	Qty:(1)	5	Mechanical	Total wt:2107kg
295	INLET Duct roof	Qty:(1)	5	Mechanical	Total wt:629kg
296	INLET Duct front face	Qty:(1)	5	Mechanical	Total wt:808.5kg
297	Corner I,II,III	Qty:(22)	5	Mechanical	Total wt:317kg
298	Fixed Point	Qty:(1)	5	Mechanical	Total wt:1143kg
299	Nut &Bolts, M16X35	Qty:(99)	5	Mechanical	Total wt:13kg
300	INLET Duct Left and right face	DRG No.70002/k/16047 Qty: (02)	5	Mechanical	Total wt:3100
301	Casing I,II,III,IV,V	Qty:(5)	5	Mechanical	Total wt:3114.1kg
302	Casing I	DRG No.70002/k/16025	5	Mechanical	
303	Steel plate	Qty:(1)	5	Mechanical	Total wt:588.8kg
304	Stiffener 366x80 Γ 8mm	Qty:(30)	5	Mechanical	Total wt:166.7
305	Connected Plate	Qty:(3)	5	Mechanical	Total wt:1kg
306	Casing II	DRG No.70002/k/16026	5	Mechanical	
307	Steel plate	Qty:(1)	5	Mechanical	Total wt:620kg
308	Stiffener 366x80 Γ 8mm	Qty:(48)	5	Mechanical	Total wt:170kg
309	Connected Plate	Qty:(3)	5	Mechanical	Total wt:1kg
310	Casing III	DRG No.70002/k/16027	5	Mechanical	Total wt:
311	Steel plate	Qty:(1)	5	Mechanical	Total wt:625.3kg
312	Stiffener 366x80 Γ 8mm	Qty:(44)	5	Mechanical	Total wt:190.8kg
313	Connected Plate	Qty:(3)	5	Mechanical	Total wt:1kg
314	Casing IV	DRG No.70002/k/16028	5	Mechanical	Total wt:
315	Steel plate	Qty:(1)	5	Mechanical	Total wt:239.9kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
316	Stiffener 366x80 Γ 8mm	Qty:(17)	5	Mechanical	Total wt:52.7kg
317	Connected Plate	Qty:(3)	5	Mechanical	Total wt:1kg
318	INLET Duct Bottom plate	DRG No.70002/k/16048 (02) Qty:	5	Mechanical	Total wt:
319	Casing I,II,III,IV,V	Qty:(4)	5	Mechanical	Total wt:2105.1kg
320	Casing I	DRG No.70002/k/16029	5	Mechanical	Total wt:
321	Steel plate	Qty:(1)	5	Mechanical	Total wt:711.2kg
322	Stiffener 366x80 Γ 8mm	Qty:(28)	5	Mechanical	Total wt:190
323	Bent plate	Qty:(14)	5	Mechanical	Total wt:5.4kg
324	Connected Plate	Qty:(6)	5	Mechanical	Total wt:3.08kg
325	Casing II	DRG No.70002/k/16030	5	Mechanical	Total wt:
326	Steel plate	Qty:(1)	5	Mechanical	Total wt:661.5kg
327	Stiffener 366x80 Γ 8mm	Qty:(36)	5	Mechanical	Total wt:215.2
328	Bent plate	Qty:(10)	5	Mechanical	Total wt:3.4kg
329	Plate dia, 32/70 , 8mm	Qty:04			Total wt:0.6kg
330	Connected Plate	Qty:(7)	5	Mechanical	Total wt:3.4kg
331	Steel plate	Qty:(1)	5	Mechanical	Total wt:625.3kg
332	INLET Duct Roof	DRG No.70002/k/16049 (02) Qty:	5	Mechanical	Total wt:
333	Casing I,III,IV	Qty:(3)	5	Mechanical	Total wt:627.3kg
334	Casing	DRG No.70002/k/16032 (02) Qty:	5	Mechanical	Total wt:
335	Plate dia, 32/70 , 8mm	Qty:(1)	5	Mechanical	Total wt:237.5kg
336	Stiffener 366x80 Γ 8mm	Qty:(16)	5	Mechanical	Total wt:83
337	Bent plate	Qty:(2)	5	Mechanical	Total wt:0.6kg
338	Connected Plate	Qty:(7)	5	Mechanical	Total wt:3.42kg
339	INLET Duct front face	DRG No.70002/k/16031 (01) Qty:	5	Mechanical	Total wt:609.5kg
340	Stiffener 366x80 Γ 8mm	Qty:(32)	5	Mechanical	Total wt:191kg
341	Bent plate	Qty:(19)	5	Mechanical	Total wt:6.5kg
342	Column	DRG No.70002/k/16351 F 20 (K), Qty: (1) F-C-	5	Mechanical	Total wt:2486kg
343	Steel plate	Qty: (4)	5	Mechanical	Total wt:2465kg
344	Column	DRG No.70002/k/16352 H 11 (K), F-C-H 19 (K), Qty: (2) F-C-	5	Mechanical	Total wt:5182kg
345	Steel plate	Qty: (8)	5	Mechanical	Total wt:6161kg
346	Fixed Point	DRG No.70002/k/16355 Qty: (20)	5	Mechanical	Total wt:712kg
347	T Bar	Qty: (1)	5	Mechanical	Total wt:92kg
348	Un-readble item dia 508x26 Length=192mm	Qty: (1)	5	Mechanical	Total wt:337.4
	Foundation Structure		5		
349	Vertical Brace	DRG No.70002/k/16776 VE- 1 (K), F-VE- 2 (K), Qty: (2) F-	5	Mechanical	Total wt:616kg
350	Brace	Qty: (2)	5	Mechanical	Total wt:408kg
351	Steel plates	Qty: (12)	5	Mechanical	Total wt:474.8kg
352	Connection Plate of Joint	Qty: (2)	5	Mechanical	Total wt:208kg
353	Connection angle type 4, backing bar / connection plate	Qty: (40)	5	Mechanical	Total wt:134kg
354	Vertical Brace	DRG No.70002/k/16337 VF- 1 (K), F-VF- 2 (K), Qty: (2) Assembly F-	5	Mechanical	Total wt:1526.4kg
355	Brace	Qty: (2) Assembly	5	Mechanical	Total wt:1240kg
356	Steel plates	Qty: (6)	5	Mechanical	Total wt:1024.8kg
357	Part of Joint	Qty: (2)	5	Mechanical	Total wt:286.4kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
358	Connection angle-II type , backing bar IV Type / connection plate-I Type	Qty: (40)	5	Mechanical	Total wt:286.4kg
359	Vertical Brace	DRG No.70002/k/16338 F-VF- 3 (K), F-VF- 4 (K), Qty: (2) Assembly	5	Mechanical	Total wt:1631.4kg
360	Brace	Qty: (2) Assembly	5	Mechanical	Total wt:1194kg
361	Steel plates	Qty: (8)	5	Mechanical	Total wt:1302kg
362	Connection plate of Joint	Qty: (2)	5	Mechanical	Total wt:151kg
363	Connection plate -I type , Connection plate-II Type / Commonal used part of joint t / backing bar I & IV Type / Connection Plate I & ii Type	Qty: (16+8+8+8)	5	Mechanical	Total wt:553.8kg
364	Vertical Brace	DRG No.70002/k/16334 F-VH- 1 (K), F-VH- 2 (K), Qty: (2) Assembly	5	Mechanical	Total wt:1480.6kg
365	Brace	Qty: (2) Assembly	5	Mechanical	Total wt:1306.2kg
366	Steel plates	Qty: (6)	5	Mechanical	Total wt:1302kg
367	Commonly used of Joint	Qty: ()	5	Mechanical	Total wt:161.6kg
368	Connection plate -I type , Connection angle-I Type / backing bar I & IV Type / Connection Plate I Type	Qty: (16+8+8+8)	5	Mechanical	Total wt:161.1kg
369	Vertical Brace	DRG No.70002/k/16340 F-VH- 3 (K), F-VH- 4 (K), Qty: (2) Assembly	5	Mechanical	Total wt:1509kg
370	Brace	Qty: (2) Assembly	5	Mechanical	Total wt:1286kg
371	Steel plates	Qty: (12)	5	Mechanical	Total wt:1374kg
372	connection plate of Joint	Qty: (2) Assembly	5	Mechanical	Total wt:103kg
373	Commonly used of Joint , Connection plate-I Type / Connection Angle- IV type/ backing bar IV Type /	Qty: (8+16+8+8)	5	Mechanical	Total wt:120kg
374	Vertical Brace	DRG No.70002/k/16341 F-VH- 1 (K), F-V 20-1 (K), F-VH- 2 (K) , F-V 20-2 (K), Qty: (4) Assembly	5	Mechanical	Total wt:2398.8kg
375	Brace	Qty: (4) Assembly	5	Mechanical	Total wt:1850kg
376	Steel plates	Qty: (20)	5	Mechanical	Total wt:1962.2kg
377	connection plate of Joint	Qty: (4) Assembly	5	Mechanical	Total wt:292kg
378	Commonly used part ,	Qty: (2)	5	Mechanical	Total wt:130.8kg
379	Connection plate-I Type / Connection Angle- IV type/ backing bar IV&V Type /	Qty: (8+16+8+8)	5	Mechanical	Total wt:295.2kg
380	Vertical Brace	DRG No.70002/k/16342 F-VII- 1 (K), F-V 20-3 (K), F-VII- 4 (K) , F-V 20-4 (K), Qty: (4) Assembly	5	Mechanical	Total wt:2141.8kg
381	Brace	Qty: (4) Assembly	5	Mechanical	Total wt:1880kg
382	Steel plates	Qty: (12)	5	Mechanical	Total wt:1193.4kg
383	Commonly used part ,	Qty: (2)	5	Mechanical	Total wt:261.6kg
384	Connection plate-I Type / Connection Angle- IV type/ backing bar IV&V Type /	Qty: (8+16+8+8)	5	Mechanical	Total wt:261.6kg
385	Vertical Brace	DRG No.70002/k/16343 F-V15- 1 (K), F-V 16-3 (K), Qty: (2) Assembly	5	Mechanical	Total wt:1541.6kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
386	Brace	Qty: (2) Assembly	5	Mechanical	Total wt:1414kg
387	Steel plates	Qty: (6)	5	Mechanical	Total wt:1396kg
388	Commonly used part ,	Qty: (2)	5	Mechanical	Total wt:127.6kg
389	Connection plate-I Type / Connection Angle- IV type/ backing bar IV&V Type /	Qty: (4+12+8+8)	5	Mechanical	Total wt:127.6kg
390	Vertical Brace	DRG No.70002/k/16344 F-V15- 2 (K), F-V 16-4 (K), F-V15- 2 (K), F-V 16-4 (K), Qty: (4) Assembly	5	Mechanical	Total wt:2404.4kg
391	Brace	Qty: (4) Assembly	5	Mechanical	Total wt:1844kg
392	Steel plates	Qty: (16)	5	Mechanical	Total wt:2040kg
393	Commonly plat of joint ,	Qty: (4) Assembly	5	Mechanical	Total wt:299
394	Commenly used of joint/	Qty: (4)	5	Mechanical	Total wt:261.2kg
395	Connection Angle- IV type/ backing bar IV Type / Connection plate I Type	Qty: (4+12+8+8)	5	Mechanical	Total wt:335kg
396	Column	DRG No.70002/k/16345 F-C-E 11 (k) , F-C-E 20 (k) Qty: 02 Assembly	5	Mechanical	Total wt:2989kg
397	Steel Plate	Qty: (8)	5	Mechanical	Total wt:2976.6kg
398	Column	DRG No.70002/k/16350 F-C-F 16 (k) Qty: 01 Assembly	5	Mechanical	Total wt:3257kg
399	Steel Plate	Qty: (5)	5	Mechanical	Total wt:3150.6kg
400	Column	DRG No.70002/k/16349 F-C-F 15 (k) Qty: 01 Assembly	5	Mechanical	Total wt:3247kg
401	Steel Plate	Qty: (5)	5	Mechanical	Total wt:3217.6kg
402	Column	DRG No.70002/k/16348 F-C-F 11 (k) Qty: 01 Assembly	5	Mechanical	Total wt:2486kg
403	Steel Plate	Qty: (4)	5	Mechanical	Total wt:2465kg
404	Vertical Brace	DRG No.70002/k/16532 B-VE-1 (K), B-VE-2 (K), Qty: (2) Assembly	5	Mechanical	Total wt:968.2
405	Brace	Qty: 2 asse'y	5	Mechanical	Total wt:485
406	Vertical Brace	DRG No.70002/k/16533 B-VE-3 (K), B-VE-4 (K), Qty: (2) Assembly	5	Mechanical	Total wt:664.2
407	Brace	Qty: 2 asse'y	5	Mechanical	Total wt:422
408	Steel Plate	Qty: (8)		Mechanical	Total wt:482
409	Miscellaneous			Mechanical	Total wt:424.2
410	Vertical Brace	DRG No.70002/k/16534 B-VE-5 (K), B-VE-6(K), Qty: (2) Assembly	5	Mechanical	Total wt:597.2
411	Brace	Qty: 2 asse'y	5	Mechanical	Total wt:329
412	Steel Plate	Qty: (8)		Mechanical	Total wt:411
413	Miscellaneous			Mechanical	Total wt:454
414	Vertical Brace	DRG No.70002/k/16535 B-VF-1.2.3.4 (K), Qty: (4) Assembly	5	Mechanical	Total wt:1011
415	Brace	Qty: 2 asse'y	5	Mechanical	Total wt:329
416	Steel Plate	Qty: (8)		Mechanical	Total wt:411
417	Miscellaneous			Mechanical	Total wt:454
418	Steel Plate	Qty: (3)	5	Mechanical	Total wt:1952kg
419	Lifting Plates	DRG No.70002/k/21778	5	Mechanical	
420	Clevis	Qty: (1)	5	Mechanical	Total wt:50.5

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
421	Plate	Qty: (3)	5	Mechanical	Total wt:294kg
422	Rot , TIE Rod, Wing Nut	Qty: (3)	5	Mechanical	Total wt:8kg
423	Outled duct of Gas Turbine	DRG No.70002/k/16058	5	Mechanical	Total wt:7483kg
424	Access Door with Ladder and Ladding Platform	DRG No.70002/k/16723	5	Mechanical	Total wt:190kg
425	Bottom outlet duct	DRG No.70002/k/16252	5	Mechanical	Total wt:260.2kg
426	Hanger II	DRG No.70002/k/16254	5	Mechanical	Total wt:70.2kg
427	Hanger I	DRG No.70002/k/16253	5	Mechanical	Total wt:5.9kg
428	Bottom outlet duct	DRG No.70002/k/16250	5	Mechanical	Total wt:261.6kg
429	Lower Outlet Duct	DRG No.70002/k/16249	5	Mechanical	Total wt:2210.2kg
430	Left and right face casing	DRG No.70002/k/16247	5	Mechanical	Total wt:597kg
431	Front and rare face casing	DRG No.70002/k/16248	5	Mechanical	Total wt:592.4kg
432	Middle Outlet Duct	DRG No.70002/k/16246	5	Mechanical	Total wt:2671kg
433	Front and rare face Duct	DRG No.70002/k/16245	5	Mechanical	Total wt:418.07kg
434	Left and right face casing	DRG No.70002/k/16244	5	Mechanical	Total wt:423.2kg
435	Upper outlet Duct	DRG No.70002/k/16243	5	Mechanical	Total wt:1879kg
436	Floor Drain Effulent Sump Piping	DRG No.70002/k/19170A	5	Mechanical	Total wt:V2.33kg
437	Waste Effulent Pump	DRG No.70002/k/16609 Type Tan1110D-2.2.2-G Speed 2900 rpm Head 17, Flow 30m ³ /HR	5	Mechanical	Total wt:70kg
438	Motor Waste Effulent Pump	Type: VI32S1-2 Power 5.5 KW Volt 400V Speed 2955 rpm	5	Electrical	Total wt:60kg
439	Waste oil Tank	DRG No.70002/k/19165	5	Mechanical	Total wt:194.7kg
440	Discharge of Effulent Pump (Channel, Gas Kit, Nut Bolt)	DRG No.70002/k/19162	5	Mechanical	Total wt:55kg
441	Vertical Brace	DRG NO. 70002/k/16536 B-VF-5 (k), B-VF-6 (k) , Qty:02	5	Mechanical	Total wt:1112.8kg
442	Brace	Qty: 02	5	Mechanical	Total wt:886kg
443	Steel plate	Qty: 08	5	Mechanical	Total wt:943.6KG
444	Miscellence :		5	Mechanical	Total wt:420kg
445	Vertical Brace	DRG NO. 70002/k/16538 B-VG-1 (k), B-VG-2 (k) , B -VG-3 (k), B-VG-11 (k) , B-VG-12 (k), B-VG-10 (k) , Qty:06	5	Mechanical	Total wt:3067.6kg
446	Brace	Qty: 06	5	Mechanical	Total wt:2608kg
447	Steel plate	Qty: 22	5	Mechanical	Total wt:2605KG
448	Miscellence :		5	Mechanical	Total wt:894kg
449	Vertical Brace	DRG NO. 70002/k/16539 B-VG-13 (k), B-VG-15 (k) , B -VG-5 (k), B-VG-04 (k) , B-VG-14 (k), B-VG-16 (k) , Qty:06	5	Mechanical	Total wt:2176kg
450	Brace	Qty: 06	5	Mechanical	Total wt:1546Kg
451	Steel plate	Qty: 22	5	Mechanical	Total wt:3677KG
452	Miscellence :		5	Mechanical	Total wt:994kg
453	Vertical Brace	DRG NO. 70002/k/16540 B-VG-8 (k), B-VG-7 (k) , B -VG-9 (k), B-VG-16 (k) , B-VG-17 (k), B-VG-18 (k) , Qty:06	5	Mechanical	Total wt:1662kg
454	Brace	Qty: 06	5	Mechanical	Total wt:919Kg
455	Steel plate	Qty: 16	5	Mechanical	Total wt:553.4KG
456	Miscellence :		5	Mechanical	Total wt:1465kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
457	Vertical Brace	DRG NO. 70002/k/16541 B-V12-1~4 (k), B-V18-1~4 (k) , Qty:08	5	Mechanical	Total wt:2698.4kg
458	Brace	Qty: 08	5	Mechanical	Total wt:2340kg
459	Steel plate	Qty: 28	5	Mechanical	Total wt:2334.4KG
460	Miscellence :		5	Mechanical	Total wt:655kg
461	Vertical Brace	DRG NO. 70002/k/16543 B-V12-7 (k), B-V18-7 (k) , Qty:02	5	Mechanical	Total wt:1077.6kg
462	Brace	Qty: 02 Nos	5	Mechanical	Total wt:607kg
463	Steel plate	Qty: 10	5	Mechanical	Total wt:828.4KG
464	Miscellence :		5	Mechanical	Total wt:1065.4kg
465	Vertical Brace	DRG NO. 70002/k/16544 B-V12-8.9 (k), B-V18-8.9 (k) , Qty:04	5	Mechanical	Total wt:1130kg
466	Brace	Qty: 02 Nos	5	Mechanical	Total wt:437kg
467	Steel plate	Qty: 16	5	Mechanical	Total wt:901.4KG
468	Miscellence :		5	Mechanical	Total wt:658kg
469	Vertical Brace	DRG NO. 70002/k/16545 B-V13-1.3.10 (k), B-V17-1.3.10 (k) , Qty:06	5	Mechanical	Total wt:1881kg
470	Brace	Qty: 06 Nos	5	Mechanical	Total wt:1640kg
471	Steel plate	Qty: 20	5	Mechanical	Total wt:1525KG
472	Miscellence :		5	Mechanical	Total wt:466kg
473	Vertical Brace	DRG NO. 70002/k/16546 B-V13-5.6 (k), B-V17-1.5.6 (k) , Qty:04	5	Mechanical	Total wt:1600kg
474	Brace	Qty: 04 Nos	5	Mechanical	Total wt:1334kg
475	Steel plate	Qty: 16	5	Mechanical	Total wt:1438KG
476	Miscellence :		5	Mechanical	Total wt:687kg
477	Vertical Brace	DRG NO. 70002/k/16547 B-U13-7 (k), B-U17-7 (k) , Qty:02	5	Mechanical	Total wt:1069.6kg
478	Brace	Qty: 04 Nos	5	Mechanical	Total wt:607kg
479	Steel plate	Qty: 10	5	Mechanical	Total wt:838.2KG
480	Miscellence :		5	Mechanical	Total wt:726kg
481	Vertical Brace	DRG NO. 70002/k/16548 B-V13-8 (k), B-V13-9 (k), B-V17-8 (k) , B-V17-9 (k) , Qty:04	5	Mechanical	Total wt:1129kg
482	Brace	Qty: 02 Nos	5	Mechanical	Total wt:437kg
483	Steel plate	Qty: 16	5	Mechanical	Total wt:901KG
484	Miscellence :		5	Mechanical	Total wt:561kg
485	Vertical Brace	DRG NO. 70002/k/16549 B-V13-2.4.11 (k), B-V17-2.4.11 (k) , Qty:06	5	Mechanical	Total wt:1884kg
486	Brace	Qty: 06Nos	5	Mechanical	Total wt:1641kg
487	Steel plate	Qty:22	5	Mechanical	Total wt:1445.6KG
488	Miscellence :		5	Mechanical	Total wt:470kg
489	Column	DRG NO. 70002/k/16550 B-C-E-12 (k), B-B-C-E-18 (k) , Qty:02	5	Mechanical	Total wt:1900kg
490	Steel plate	Qty:8	5	Mechanical	Total wt:1886KG
491	Miscellence :		5	Mechanical	Total wt:14.6kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
492	Column	DRG NO. 70002/k/16551 B-C- E-13 (k), B-B-C-E- 17 (k), , Qty:02	5	Mechanical	Total wt:1998kg
493	Steel plate	Qty:10	5	Mechanical	Total wt:589KG
494	Miscellence :		5	Mechanical	Total wt:29.2kg
495	Overhead Crane (Accessories)	DRG NO. 70002/k/10950 Qty: 01 Capacity:16ton+2.5ton	5	Mechanical	Total wt:25000kg
496	Overhead Crane Track (Column & Beam)		5	Mechanical	Total wt: 100000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
1	Gas Turbine No.965031 Make: Hitachi Japan	Model:PG.5341P Simple Cycle, Industrial Heavy Duty 2 stage 25MW, Speed: 5143rpm	6	Mechanical	(Turbine Package) 90600kg
2	Generator Hitachi Japan No.IOPO85-692 Make: Hitachi DRG	Type: TFB1 LAW-K Manufac: No. 632381163281-1 Capacity: 30250kVA Rated Speed: 3000rpm Rated Voltage: 11kV Cylindrecal Rotor type with Air Cooled	6	Electrical	Stator:50000kg Rotor: 13900kg Dimension: Stator Outside Dimension : 1800mm Rotor Dimension: 786x5128mm
3	UNIT TRANSFORMER (MAKE :HITACHI JAPAN)	Rating:22/29 MVA Voltage: 132/11 KV	6	Electrical	Winding: 45000 kg Tank and Accessories:20000 kg T/F Oil.10000kg
	Auxiliary Equipment for Generator		6	Mechanical	
4	INLET PLENUM		6	Mechanical	Total wt:1200kg
5	Enclosure		6	Mechanical	Total wt:7000kg
6	Atomizing Air Compressor & Piping		6	Mechanical	Total wt:1300kg
7	Coolers	Qty:02	6	Mechanical	Total wt:1500kg
8	Load Reduction Gear	Type & Model: Single Heral VF 56R (Vertically off-set) Manufact: No. Unit No.5 2529 Unit. No.06 2530 Power to be Transmitted: 28000kW Max Power: 31000kW Primar Speed: 5100RPM Secondary Speed: 3000RPM Exact Reducion : 1/1.7115 Make: CIT ALCATEL, FRANCE	6	Mechanical	Total Weight:8000kg
9	Pedestal		6	Mechanical	Total weight is 1200kg
10	Mounting Base		6	Mechanical	Total weight 18200kg
11	Housing		6	Mechanical	Total wt:8000kg
12	Miscellances		6	Mechanical	Total wt:2700kg
13	SSS CLUTCH	Type & Model: SL13858 Make: SSS Gear Ltd England	6	Mechanical	Total weight is 2550
14	Exciter	Type: Static Rating: Capacity 120kW Voltage: 370V Make: Hitachi Ltd Japan	6	Electrical	Total weight 3000
15	Fuel System		6	Mechanical	Total wt:5000kg
16	Fuel Forwarding Skid Pump DRG No. IOQ132-218	Flue: 190 l/min Discharge pressure: 5.5cm ² Design Temp: 4-43c° Bore: Inlet : 50mm Outlet: 40mm Make: Shimadzu Seikusho Ltd. Japan	6	Mechanical	Total wt:1500kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
17	AC Motor	Type & Form :TFOA-KK Totally enclosed Rated output: 7.5kW Rated Voltage: 380V Speed: 3000rpm Make: Hitachi Ltd Japan	6	Electrical	Total weight 100kg
18	D.C Motor	Type & Form :GEER-O Totally enclosed Rated output: 5kW Rated Voltage: 125V D.C Speed: 2500rpm Make: Yasukawa Co Ltd Japan	6	Electrical	Total weight 120
19	Gas Scrubber Skid	Type: Vertical and Cylindrical Vessel Flow rate: 11400 Nm ³ Gas Pressure: 17.58kg/cm ² Gas Temp: 0-65°c Bore: 100mm	6	Mechanical	Total wt:3000kg
20	Gas Flue meter	Flue Rate: 12000 Nm ³ /Hr Normal: 9000 Nm ³ /Hr Min: 1460 Gas Pressure: 17.58kg/cm ² Gas Temp: 0-65°c Bore: 150mm Power Source: A.C 110V,50Hz Make: Okkura Electric Co ltd Japan	6	Mechanical	Total wt:150
21	Gas Strainer	Type: Y Type Screen: 40mesh Bore. 80mm Make: Hitachi Japan	6	Mechanical	Total wt:800kg
22	Unit Auxiliary Transformer Make: HITACHI LTD TOKYO JAPAN	No of Phases:3 Rated Power:22/29MVA Voltage:132kV/11kV Rated Current: 127/1520A Cooling: ONAN, ONAF Insulation Level:650kV Impedance Voltage: 7.95%	6	Electrical	Core (Iron/Steel): 30,000 kg Windings (Copper): 12,000 kg Oil: 6,000 kg Tank and Accessories: 5,000 kg
23	Starting System (Induction Motor)	Type: EFOU-KK output:300kW Speed: 2955rpm Voltage: 3phase, 380v, 50Hz, Ampere.548A	6	Electrical	Total wt:1600kg
24	Pony Motor Make: Hitachi Japan	Type: EFL-Da Rated output: 5000kW Rated Voltage: 380 Frequ:50hz Speed: 2950rpm	6	Electrical	Total wt:3500kg
25	BLOWER FAN	Type & Model: PAW_RH (Single Suction Type) Rated Airflow:290m ³ /min Speed: 980 r.p.m Make: NAKA Shima Seisakusho Japan	6	Mechanical	Iron/Steel: = 1,800 kg Copper (Motor Windings): = 200 kg Other Materials (Aluminum, Bearings, etc.): = 100 kg
26	BLOWER FAN MOTOR	Output: 11kW Speed: 1000 r.p.m No of Pole: 06 3 phase, 380 v, 50 Hz Make: Fuji Electric Co Ltd Japan	6	Electrical	Total weight 200kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
27	LUBRICATING OIL HEATERS	Rating: 2kW x2	6	Mechanical	Total weight 80kg
28	Auxiliary Lube Oil Pump	Type: SVB100 Bore. 100mm Capacity: 1495l/min (395 GPM) Discharge Pressure: 4.6kg/cm ² Make: Hitachi	6	Mechanical	Total weight is 400kg
29	ACCESSORY DRIVE GEAR,	Type : F5-B. Power : 556HP. Shaft Speed : 1.F-1R =5100 rpm. 2.F-2R =3600 rpm. 3.AF = 1800 rpm 4.F-4R = 1432 rpm Manufacturing No. : 014 Manufacturing Date : 20 June, 1980. Make : NIPON Gear Co. Ltd. Japan.	6	Mechanical	Total weight 3000kg
30	MAIN C.W.PUMP,GT-5 & 6 (CENTRIFUGAL PUMP).	Type.: HOV Form. CH. Model No. C150 x 125V4-575 Quantity : 4.34 m ³ /min Head : 57 m Speed : 1455 Rpm Power : 75 kW, Manufacturing No. H27506002 Qty: 04 Nos Make Hitachi, Tokyo Japan.	6	Mechanical	Total weight is 1500kg
31	CLUTCH UNIT (MAGNETIC)	Type : NCWO-20SK1 Voltage : 125 DC. Power : 48 Watt. Manufacturing No. 097 Y6R-2 Manufacturing Date : 1980. Make : SHINKO Electric Co, Ltd, Japan.	6	Mechanical	Total weight is 35kg
32	HYDRAULIC TORQUE CONVERTER.	Model : USGN1601-MS600 Spec. No. : 2Z-2467 Serial No. : USGN16022, Manufacturing Date : August, 1978 Make : NIGATA Converter Co, Ltd, Tokyo, Japan.	6	Mechanical	Total weight is 3000kg
33	FUEL OIL PUMP .	Type : FP 132 m-202D2 O No. : 050037 Shimadzu Serial No. : G 83-07 Manufacturing Date : June, 1983. Make : Shimadzu Corporation, KYOTO, Japan.	6	Mechanical	Total weight is 630kg
34	LUBE OIL COOLER	Type : F-2 Form : GTO-135. Cooling Surface Area : 135 m ² . Manufacturing No. U25014 Qty:02 Manufacturing Date : 1980. (Make : HITACHI LTD. TOKYO, Japan)	6	Mechanical	Total weight: 3300kg
35	AIR FILTER FAN.	Type : NV-BD. Capacity : 290 m ³ / min. Speed : 965 rpm. Static Pressure : -110 mmAq. Gas Temperature : 20°C. Item No. : R80-1693, Serial No. : 801188-4. Manufacturing Date : September, 1980. Make:NAKASHIMA Manufac: Co Ltd, Osaka, Japan.	6	Mechanical	Total weight:1650kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
36	MAIN LUBE OIL FILTER.	Type : COF-100SM. Pressure : 120 PSI. Filtration : 5 μ Capacity : 360 Gallon / min. Element Size : 6.1 Pipe Size : 4 B. Element No. : 09. Nitto Drawing No. : CF-0138-2. Manufacturing No. : F-80100 10 Manufacturing Date : 09/09/1980. Make : NITTO Oil Manufacturing Co. Limited, TOKYO, Japan.	6	Mechanical	Total weight:880
37	FUEL H.P FILTER.	Model No. : IMCS3J-H. Design Pressure : 95 kg / cm ² g. Design Temperature : 50°C. Serial No. : V-80060-5. Code : JIS. Fluid Flow Rate : 160 Lit/min. Hydrostatic Test Pressure : 142 kg / cm ² g. Pneumatic Gauge Pressure : Cartridge. Part No. : WHM-003-0. Quantity : 03 each. Design & Fabr: WAKO Industrial Co, Ltd Tokyo, Japan.	6	Mechanical	Total weight:440kg*3= 1320kg
38	CONTROL OIL FILTER.	Type : COF-20. Pressure : 120 Psi. Capacity : 8.6 GPM (33 Lit/min). Filtration : 5 μ. Element Size : 4.53 x 11/115 x 280. Element No. : 01. Pipe Size : NPT3/4. Manufacturing No. F-8010043. Date : 20.09.1980. Make : NITTO Oil Machinery Co, Ltd. Tokyo, Japan.	6	Mechanical	Total weight :55kg
39	MAIN LUBE OIL PUMP.	Model No.: PV 320 R-AV1-A10. Serial No. : 38455-82002-40 Manufacturer : DELAVAN TOKYO, Japan.	6	Mechanical	Total weight : 550kg
40	COUPLING OIL FILTER	Type: COF-38-05-25W Capacity: 38 l/min Operating Pressure: Max 8.75 kg/cm ² (125PSI) Filtration: 0.5 Micron Bore: 25mm Qty:02 Nos. Make: Nitto Oil Machinery Co., Ltd Japan	6	Mechanical	Total weight : 50 * 2 = 100kg
41	FUEL OIL L.P FILTER UNIT.	Model No. : FA-2 F11 GJ. Code No. : JIS Serial No. : V-80113-2 Design Pressure : 7 kg / cm ² g. Capacity : 190 Lit/min. Hydrostatic pressure : 105 kg / cm ² g. Fluid : Distilled Oil. Design Temperature : 50°C. Cartridge Part No. : BP-7-18J. Pneumatic Test Pressure : 7 kg / cm ² g. Quantity : 4 x 2 each. Date Built : November, 1980. Designed & Fabricated : WAKO Industrial Co. Ltd, TOKYO, Japan.	6	Mechanical	Total weight:730kg*4

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
42	FTC OIL COOLERS.	Built No. : S-2327. Test Pressure : 15 kg / cm ² . Year Built : 03.10.1980. Make : TAISI, Kogyo Co, Ltd. TOKYO, Japan.	6	Mechanical	Total WEIGHT:500KG
43	LOAD GEAR.	Model No. : VF56RC. Power : 2800 kW. Speed : 5334/3000 rpm. Ratio : 1.7115 Serial No. : 2530. Contract : ZK12200B. Manufacturing Date : 1980. Make : GRAFFENSTADEN Japan.	6	Mechanical	Total weight :7300
44	SPEED-UP GEAR.	Type : HCS-025 X. Power Rating : 500 kW. Input Speed : 3000 rpm. Output Speed : 3187 rpm. Ratio : 1.063. Manufacturing No. : 80K31806-2. Technial Drawing No. 350-122030 Manufacturing Date : 1980. Make : Hitachi Limited, Tokyo Japan.	6	Mechanical	Total weight :1200
45	FUEL OIL HEATER.	Type : Package Type. Flow : 170 / min. Design Pressure : 7 kg / cm ² g. Design Control Temperature : 25 ° C to 32 ° C. Power : 75 Kw. Make : SUKEGAWA Electric Co, Ltd. Japan.	6	Mechanical	Appox: 1000kg (Dry)
46	MAIN LUBE OIL PUMP.	Type : Gear Type. Capacity : 380 Lit./min. Discharge Pressure : 8.5 kg / cm ² g. Bore : 100 mm. (Make : DAITO KOGYO Co. Limited, Japan).	6	Mechanical	Total weight : 700kg
47	A.C Motor	Type & Model: FEF-O Totally Enclosed Rated Output: 5.5kW Rated Voltage: 380V Freq: 50Hz No of Poles. 04 Speed: 1500rpm Make: Yasukawa Electro Co ltd Japan	6	Electrical	Total weight : 70kg
48	MAIN LUBE OIL TANK	Capacity : Normal 2 m ³ . Dimensions : 1.8 m x 2.3 x 1 m. Immersion Heater : 5 kW, AC 380 V. Make: Hitachi Japan	6	Mechanical	Total weight : 850kg
49	EMERGENCY LUBE OIL PUMP.	Type : Gear Type. Capacity : 380 Lit./min. Discharge Pressure : 8.5 kg / cm ² g. Bore : 100 mm. Make : DAITO KOGYO Co. Limited, Japan.	6	Mechanical	Total weight:450kg
50	D.C Motor for LO PUMP	Type. DMFX1-5.5 Power: 5.5kW Voltage: 125v (D.C) Speed: 1450rpm Make:	6	Electrical	Total weight:150
51	LUBE OIL HEAT EXCHANGER (DOUBLE).	Type : Multi Tubes Type. Bore for Cooling Water : 65 mm. Bore for Lube Oil : 100 mm. Make : TAISEI KOGYO Co. Limited, Japan.	6	Mechanical	Total weight:800kg
52	CO ₂ Fire Fighting System		6		

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
71	HEAT RECOVERY STEAM GENERATOR (HRSG).	Type : HG-f16968-GT1. Maximum Allowable Working Pressure : 54.3 BarA. Heating Surface Area : 16968 m ² . Rated Steam Generating Capacity : 44.88 Ton/hr. Design Temperature : 515°C. Manufacturing Serial No. 2169. Built Date : 05/1993 Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	6	Mechanical	
72	BOILER DRUM (HRSG).	Service Pressure : 50 Bar A. Design Pressure : 54.3 Bar. Test Pressure : 81 Bar A Design Temperature : 269°C Service Temperature : 264°C Test Temperature : 81°C Code : ASMI 70002/2168/9/1992. Qty: 04 Nos Make : Cockerill Mechanica Industries, Harbin Boiler Works, China.	6	Mechanical	Total wt of each:55,578*4=222,312
73	FEED WATER STOP VALVE	Type : J61H-20 PN : 196 Bar DN : 100 mm. Maximum Temperature : 450°C Manufacturing date : 08/1992 Serial No : T9. Make : Harbin Boiler Works, China.	6	Mechanical	Total wt: 100kg
74	MOTORIZED FEED WATER (GLOBE VALVE)	Type : J961a-20 PN : 196 Bar DN : 100 mm. Maximum Temperature : 450°C Manufacturing date : 08/1992 Serial No : T5. Body Material : WCB. Make : Harbin Boiler Works, China.	6	Electro/Mec	Total wt:180kg
75	ECONOMIZER STOP VALVE	Type : J61H-20 PN : 186 Bar DN : 100 mm. Maximum Temperature : 450°C Manufacturing date : 08/1992 Serial No : T8. Body Material : WCB. Qty: 04 Nos Make : Harbin Boiler Works, China.	6	Mechanical	Total wt: 100*4=400
76	L.P. OUTLET CHECK VAVE (N.R.V)	PN : 25 Bar DN : 300 mm. Qty: 04 Nos Manufacturing date : 08/1992 Make : Harbin Boiler Works, China.	6	Mechanical	Total wt: 250*4=1000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
77	DEARATOR Valve (N.R.V)	PN : 25 Bar DN : 300 mm. Manufacturing date : 08/1992 Make : Harbin Boiler Works, China.	6	Mechanical	Total wt: 250kg
78	DEARATOR	DRG No: 70002/k/87451 Make: Harbin Marine Boiler & Turbine research institute work China	6	Mechanical	Total wt: 10953.0
79	STEAM TRAP	Type : HRW150. Code : LRA61AA201. Maximum Temperature : 550°C. Maximum Pressure : 15 MPa. DN : 25 mm. Manufacturing date : 06/1992 Make : Beijing Valve Qty: 08 Nos Manufacturing, China.	6	Mechanical	Total weight : 15x8=120
80	EMERGENCY BLOWDOWN VALVE (MOTOR OPERATED)	PN : 25 Bar DN : 300 mm. Manufacturing date : 08/1992 Make : Harbin Boiler Works, China.	6	Electro/Mec	Total weight :600kg
81	HP Economizer Assembly		6		
82	Header HP Economizer inlet and outlet	Qty: 02 Nos DRG: NO.U301.150K	6	Mechanical	Total wt:436kg
83	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 576 Nos	6	Mechanical	Total wt:22694.4kg
84	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 12 Nos	6	Mechanical	Total wt:2851.2kg
85	TUBE SHEETS	DRG: NO. U301.140K Qty: 12 Nos	6	Mechanical	Total wt:2524.8kg
86	LP Evaporator Assembly	Drawing No. 70002/K/21790 In header LP Evaporator, Out header LP Evaporator, finned tubes, Return Bands, Head Lock, Header Connection, Plate Qty (1+1+216+108+12+72+72+72+1+1+1+1+3 2)	6	Mechanical	Total wt:15760.88
87	Header Connection, Lock, Tube Bend, Plate		6	Mechanical	Total wt:712.08kg
	HP 2 Evaporator Assembly		6	Mechanical	
88	Out Header HP Evaporator	DRG: NO. U301-149K Qty: 01 No	6	Mechanical	Total wt:403kg
89	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 432 Nos	6	Mechanical	Total wt:18187.2kg
90	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	6	Mechanical	Total wt:4568.4kg
91	Header Connection, Tube Sheets, Return bends		6	Mechanical	Total wt:2872.88kg
	HP 1 Evaporator Assembly		6	Mechanical	
92	In Header HP Evaporator	Dia: 219mm, Thickness:15mm, Qty: 01 No. DRG NO-U301-148K	6	Mechanical	Total wt:413.5kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
93	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7932mm Qty. 108 Nos	6	Mechanical	Total wt:4568.4kg
94	FINNED TUBES	Dia: 31.8mm, Thickness: 3.2mm, Length: 7852mm Qty. 540 Nos	6	Mechanical	Total wt:22734kg
95	Return bends	Dia: 31.8mm, Thickness: 3.2mm, Qty.(36+36+36+180+180+180) Nos	6	Mechanical	Total wt:1231.2kg
96	Header Connection, Lock, Tube Sheets, Plate	Qty: (1+1+12+3+32)	6	Mechanical	Total wt:4847.88kg
	Situation Boxes and Expansion Joints		6	Mechanical	
97	Closed boxe and Expansion Joints	DRG: NO. U301.539K Qty: (1+3+3+1+2) Nos	6	Mechanical	Total wt:501.3kg
98	Closed boxe	Qty: 04 Nos	6	Mechanical	Total wt:316.6kg
	Inlet Header HP Evaporator		6	Mechanical	
99	Shell	Dia: 29x15 Length.3018mm. Qty: 01 No	6	Mechanical	Total wt:227.8kg
100	Fixed plate	Length into Breadth: 50x70 Qty: 04 Nos	6	Mechanical	Total wt:02kg
101	Tube	Dia.31.8x3.2 Qty:108 Nos	6	Mechanical	Total wt:162kg
102	Flat	Qty: 01 No, DRG No.U301.184K	6	Mechanical	Total wt:10.7kg
	Outlet Header LP Evaporator	DRG No 70002/k/21789	6	Mechanical	
103	Shell	Dia: 325x13, Length:3818 mm Qty: 1	6	Mechanical	Total wt:301.9 kg
104	Flat	Qty : 1	6	Mechanical	Total wt:16.9 kg
105	Tube	Dia 38x2.9 mm Qty : 108	6	Mechanical	Total wt:147.6 kg
106	Internal of Drum (Section E)	Drawing No. 70002/K/21713	6	Mechanical	Total wt:500.34 kg
107	Internal of Drum (Section A-A, B-B, D-D)	Drawing No. 70002/K/21714	6	Mechanical	Total wt:
108	General Arrangement of Steam Drum	Drawing No. 70002/K/21700	6	Mechanical	Total wt:
109	Shell	Dia 1876x38 Length : 2250 m Qty: 02	6	Mechanical	Total wt:7671 kg
110	Head, Access Door Anti-seismic Block	DRG No. U301.018K (Qty : 1+3+1+1+1+3+11+1+1+1+2)	6	Mechanical	Total wt:3612 kg
111	Nozzels		6	Mechanical	Total wt:338.54 kg
112	Drum Hanger & Guide	Drawing No. 70002/K/21813 (Clamping, Pin, Tie Plate, Hanger, Cone wahser, Spherical Washer, Nutt, Guide-1&2)	6	Mechanical	Total wt:680.704 kg
113	Closed Boxe & Expension Joints	Drawing No. 70002/K/16179 Closed plate, plate, web, plate, plate, expension joits, screws	6	Mechanical	Total wt:49.73 kg
114	Closed Boxe & Expension Joints	Drawing No. 70002/K/16180 Closed plate, plate, web, plate, plate, expension joints, screws	6	Mechanical	Total wt:53.33 kg
115	Closed Boxe & Expension Joints	Drawing No. 70002/K/16181 Closed plate, plate, web, plate, plate, expension joints, screws	6	Mechanical	Total wt:57.57 kg
116	Closed Boxe & Expension Joints	Drawing No. 70002/K/16178 Closed plate, plate, web, plate, plate, expension joints, screws	6	Mechanical	Total wt:46.02 kg
117	Closed Boxe	Drawing No. 70002/K/16186 Closed plate, plate, web, plate, screws	6	Mechanical	Total wt:47.4kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
118	Closed Plate	Drawing No. 70002/K/16182 Guide plate, plate, web, plate	6	Mechanical	Total wt:10.99kg
119	Closed Boxe	Drawing No. 70002/K/16187 Closed plate, plate, web, plate, screws	6	Mechanical	Total wt:47.4kG
120	Seal Plate	Drawing No. 70002/K/16239 Sheet, Sheet, Bull tray, Gusset Qty: (18+3+3+12+2+2+36+12)	6	Mechanical	Total wt:565.76
121	Deflectors	Drawing No. 70002/K/16240 Steel Plate Qty: (12+12+18+12)	6	Mechanical	Total wt:688 kg
122	Anti Vibration Sheet Assembly	Drawing No. 70002/K/16091 Sheet,Door,Screw,nut,blade Qty: (3+2+1+2+1+2+1+1+4+2+36+36+36+36+4+3)	6	Mechanical	Total wt:1933.724 kg
123	Inlet and outlet header of Economiser	Drawing No. 70002/K/21795 Shell, Flat, tube, fixing plate Qty (1+1+18+18+4)	6	Mechanical	Total wt:213.4 kg
124	Outled Header of HP Evaporator	Drawing No. 70002/K/21794 Shell, Fixing Plate, tube, plate Qty (1+4+18+18+18+18+18+18)	6	Mechanical	Total wt:391.8 kg
125	Complete Suspension	Drawing No. 70002/K/16276 Pin, Strap, Nutt, Suspension, Pin, Washer Qty (2+1+1+1+1+1+2+2)	6	Mechanical	Total wt:18.295 kg
126	Support for suit blowers	Drawing No. 70002/K/21852 Tole, Plate, Screw, Nutt Qty (1+2+2+8+8)	6	Mechanical	Total wt:16 kg
127	Flange of Roof	Drawing No. 70002/K/21812 Plate of roof, stiffner, flange, plate Qty (2+4+6+24)	6	Mechanical	Total wt:744.32 kg
128	Guide-I	DRG No 70002/k/16593			
129	Guide-II	Drawing No. 70002/K/21822 Plate, web, Qty (2+2+1+2+4)	6	Mechanical	Total wt:50.76 kg
130	Heating Surface Hanging Assembly	Drawing No. 70002/K/16159 Tightening, Screw, Plate, Complete Suspension & Nutt Qty (18+96+96+96+24+48+24+6+24+192)	6	Mechanical	Total wt:1662.94 kg
	Boiler Structure	B-27BE 9(k), B-27BE-12(k) B- 27BE-2(k), B-27BE-24(k) B- 27BE-14(k), B-27BE-15(k) B- 27BE-26(k), B-27BE-27(k) B- 27BE-13(k), B-27BE-25(k) B- 27BE-16(k), B-27BE-28(k) Beam 04 Qty	6	Mechanical	Total wt:4806kg
131	Beam	B-27BE 9(k), B-27BE-12(k) B- 27BE-2(k), B-27BE-24(k) B- 27BE-14(k), B-27BE-15(k) B- 27BE-26(k), B-27BE-27(k) B- 27BE-13(k), B-27BE-25(k) B- 27BE-16(k), B-27BE-28(k) Beam 04 Qty	6	Mechanical	Total wt:4806kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
132	Steel Plate	DRG No YT15-502 Qty: (4+4+4+8+12+4+4+4+28+2+2+2+2+2+2)	6	Mechanical	Total wt:4529.8kg
133	Beam	DRG No.70002/k/16594 B-27BE 17(k), B-27BE-20(k) B-27BE-29(k), B-27BE-32(k)	6	Mechanical	Total wt:884kg
134	Steel Plate	DRG No YT15-502 Qty: (16+16+8+8+8+16)	6	Mechanical	Total wt:872kg
135	Beam	DRG No.70002/k/16595 B-27BF-36(k), B-27BF-37(k) B-27BF-38(k), B-27BF-39(k) B-27BG-41(k) Qty: (2+2+1)	6	Mechanical	Total wt:6622kg
136	Steel Plate	DRG No YT15-502 Qty: (8+2+2+2+2+2+2+1)	6	Mechanical	Total wt:5716.7kg
137	Beam	DRG No.70002/k/16592 B-27BE-5(k), B-27BE-7(k) B-27BE-4(k), B-27BE-8(k) B-27BE-10(k), B-27BE-10(k), B-27BE-22(k), B-27BE-23(k) Qty: (2+2+1)	6	Mechanical	Total wt:6622kg
138	Steel Plate	DRG No YT15-502 Qty: (8+2+2+2+2+2+2+1)	6	Mechanical	Total wt:5716.7kg
139	Beam	DRG No.70002/k/16591 B-27BG-40(k), B-27BG-42(k) B-27BE-2(k), B-27BF-34(k) Qty: (2+1+1)	6	Mechanical	Total wt:2954kg
140	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+1+1+1+1)	6	Mechanical	Total wt:2892.7kg
141	Beam	DRG No.70002/k/16591 B-27BG-40(k), B-27BG-42(k) B-27BE-2(k), B-27BF-34(k) Qty: (2+1+1)	6	Mechanical	Total wt:2954kg
142	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+1+1+1+1)	6	Mechanical	Total wt:2892.7kg
143	Beam	DRG No.70002/k/16590 B-27BE-1(k), B-27BE-3(k) B-27BF-33(k), B-27BF-35(k), B-27BE-6(k) Qty: (2+2+1)	6	Mechanical	Total wt:2356kg
144	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+2+2+1+1+2+1)	6	Mechanical	Total wt:2106.8kg
145	Beam	DRG No.70002/k/16589 B-23BF-21(k), B-23BF-22(k) Qty: (1+1)	6	Mechanical	Total wt:640kg
146	Steel Plate	DRG No YT15-502 Qty: (1+1+1+1+1+1+3+2)	6	Mechanical	Total wt:301.3kg
147	Beam	DRG No.70002/k/16588 B-23BF-15(k), B-23BF-26(k), B-23BF-11(k), B-23BF-23(k) Qty: (2+2)	6	Mechanical	Total wt:3171kg
148	Steel Plate	DRG No YT15-502 Qty: (4+2+2+2+2)	6	Mechanical	Total wt:3003kg
149	Beam	DRG No.70002/k/16587 B-23BF-8(k), B-23BF-25(k), B-23BG-16(k) Qty: (2+1)	6	Mechanical	Total wt:1554.8kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
150	Steel Plate	DRG No YT15-502 Qty: (4+2+1+1+1)	6	Mechanical	Total wt:3897.1kg
151	Beam	DRG No.70002/k/16586 B- 23BF-10(k), B-23BF-09(k), B-23BF-7(k) Qty: (1+1+1)	6	Mechanical	Total wt:1893kg
152	Steel Plate	DRG No YT15-502 Qty: (2+2+5+1+1+1+2+1)	6	Mechanical	Total wt:1524.1kg
153	Beam	DRG No.70002/k/16585 B- 23BF-12(k), B-23BF-13(k), B-23BF-14(k), B-23BF-20(k) B- 23BF-6(k) Qty: (1+1+1+2)	6	Mechanical	Total wt:691kg
154	Steel Plate	DRG No YT15-502 Qty: (1+1+1+1+1+1+1+1+2+2+2)	6	Mechanical	Total wt:635.6kg
155	Beam	DRG No.70002/k/16584 B- 23BF-4(k) Qty: (1)	6	Mechanical	Total wt:1456kg
156	Steel Plate	DRG No YT15-502 Qty: (2+1+2+1+1)	6	Mechanical	Total wt:1381.1kg
157	Beam	DRG No.70002/k/16583 B- 23BE-2(k) Qty: (1)	6	Mechanical	Total wt:1416kg
158	Steel Plate	DRG No YT15-502 Qty: (2+1+2+1+2)	6	Mechanical	Total wt:1388.3kg
159	Beam	DRG No.70002/k/16582 B- 23BE-1(k), B-23BE-18(k), B- 23BF-3(k), B-23BF-19(k), B- 23BG-17(k), B-23BG-24(k), B- 23BF-5(k) Qty: (2+2+2+1)	6	Mechanical	Total wt:2776kg
160	Steel Plate	DRG No YT15-503 Qty: (4+2+4+2+4+2+2+1)	6	Mechanical	Total wt:2656.6kg
161	Beam	DRG No.70002/k/16581 B- 19BG-20(k), B-19BG-19(k), B- 21BG-1(k), B-25BG-1(k), Qty: (2+2)	6	Mechanical	Total wt:3070kg
162	Steel Plate	DRG No YT15-503 Qty: (2+2+2+4+2)	6	Mechanical	Total wt:2971kg
163	Beam	DRG No.70002/k/16580 B- 19BF-16(k), B-19BF-17(k), Qty: (2)	6	Mechanical	Total wt:3156kg
164	Steel Plate	DRG No YT15-503 Qty: (4+2+2+4+4+4+2)	6	Mechanical	Total wt:3101kg
165	Beam	DRG No.70002/k/16579 B- 19BF-15(k), B-19BF-18(k), Qty: (2)	6	Mechanical	Total wt:3148kg
166	Steel Plate	DRG No YT15-503 Qty: (4+2+2+4+4+4+2)	6	Mechanical	Total wt:2315.3kg
167	Beam	DRG No.70002/k/16578 B- 19BE-5(k), B-19BE-6(k), B- 19BF-13(k), Qty: (2+1)	6	Mechanical	Total wt:3259kg
168	Steel Plate	DRG No YT15-503 Qty: (4+2+2+1+1+2+2+2+1)	6	Mechanical	Total wt:3149.8kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight	
169	Beam	DRG No.70002/k/16577 19BE-4(k) , B-19BE-7(k), 19BE-2(k), Qty: (2+1)	B- B-	6	Mechanical	Total wt:3235kg
170	Steel Plate	DRG No YT15-503 Qty: (4+2+2+2+2+1+1+2+1)		6	Mechanical	Total wt:3153.1kg
171	Beam	DRG No.70002/k/16576 19BE-8(k) , B-19BE-9(k), 19BF-14(k), B-19BE-10(k), B- 19BE-11(k), B-19BF-12(k), B- 19BE-3(k), B-19BE-1(k), Qty: (4+2+2)	B- B- B- B-	6	Mechanical	Total wt:3482kg
172	Steel Plate	DRG No YT15-503 Qty: (4+4+4+16+2+2+2+2+2+2)		6	Mechanical	Total wt:3294.4kg
173	Beam	DRG No.70002/k/16575 16BG-27(k) , B-16BF-28(k), Qty: (1+2)	B-	6	Mechanical	Total wt:4319kg
174	Steel Plate	DRG No YT15-503 Qty: (2+1+4+8+2)		6	Mechanical	Total wt:4222.3kg
175	Beam	DRG No.70002/k/16574 16BF-22(k) , B-16BF-23(k), Qty: (1+1)	B-	6	Mechanical	Total wt:4992kg
176	Steel Plate	DRG No YT15-503 Qty: (2+1+1+4+1+2+1+1+4+1+1)		6	Mechanical	Total wt:4868.8kg
177	Beam	DRG No.70002/k/16573 16BF-21(k) , B-16BF-24(k), Qty: (1+1)	B-	6	Mechanical	Total wt:2455kg
178	Steel Plate	DRG No YT15-503 Qty: (1+1+1+6+2+1)		6	Mechanical	Total wt:2398.6kg
179	Beam	DRG No.70002/k/16572 16BF-19~14(k) , 16BF-18~20(k), 16BF-25,26(k) Qty: (2+2)	B- B- B-	6	Mechanical	Total wt:360kg
180	Steel Plate	DRG No YT15-502 Qty: (2+2+2+2+2+2)		6	Mechanical	Total wt:321.2kg
181	Beam	DRG No.70002/k/16571 16BF-5(k) , Qty: (1)	B-	6	Mechanical	Total wt:3632kg
182	Steel Plate	DRG No YT15-503 Qty: (2+1+8+4)		6	Mechanical	Total wt:3534.6kg
183	Beam	DRG No.70002/k/16570 16BE-1(k) , B-16BE-4(k), 16BF-6(k), B-16BE-8(k), 16BE-15(k), B-16BE-17(k), Qty: (2+2+2)	B- B- B-	6	Mechanical	Total wt:2003kg
184	Steel Plate	DRG No YT15-503 Qty: (4+2+4+2+2+2+2)		6	Mechanical	Total wt:1926.6kg
185	Horizontal Brace	DRG No.70002/k/16569 B-27HE-13(K), B-27HE-14(K) , B- 27HE-15(K) , B-27HE-16(K) Qty: (2+2)	B-	6	Mechanical	Total wt:2031kg
186	Angle Iron + Steel Plate	Qty: (4+) + (2+8)		6	Mechanical	Total wt:951.4kg + 43.4kg
187	Horizontal Brace	DRG No.70002/k/16568 B-27HE-9(K), B-27HE-12(K) , B- 27HE-25(K) , B-27HE-28(K) Qty: (4+4)	B-	6	Mechanical	Total wt:444kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
188	Angle Iron + Steel Plate	Qty: (8+8) + (4+4+4+4)	6	Mechanical	Total wt:276kg + 136.8kg
189	Horizontal Brace	DRG No.70002/k/16567 B-27HE-5(K), B-27HE-8(K) , B-27HE-21(K) , B-27HE-24(K) Qty: (8)	6	Mechanical	Total wt:536kg
190	Angle Iron + Steel Plate	Qty: (16) + (8+8+8)	6	Mechanical	Total wt:188.8kg + 220kg
191	Horizontal Brace	DRG No.70002/k/16566 B-27HE-1(K), B-27HE-4(K) , B-27HE-17(K) , B-27HE-20(K) Qty: (4+4)	6	Mechanical	Total wt:424kg
192	Angle Iron + Steel Plate	Qty: (8+8) + (4+4+4+4)	6	Mechanical	Total wt:276kg + 102.8kg
193	Horizontal Brace	DRG No.70002/k/16565 B-23HF-5(K), B-23HF-5(K) , B-23HF-6(K) , B-23HF-6(K) Qty: (2+2)	6	Mechanical	Total wt:989kg
194	Angle Iron + Steel Plate	Qty: (4+4) + (2+2+6+6+2+2)	6	Mechanical	Total wt:276kg + 113.2kg
195	Horizontal Brace	DRG No.70002/k/16564 B-23HF-1(K), B-23HF-1(K) B-23HF-2(K), B-23HF-2(K) , B-23HF-3(K) , B-23HF-3(K) B-23HF-4(K), B-23HF-24K) Qty: (2+2+4)	6	Mechanical	Total wt:1132kg
196	Angle Iron + Steel Plate	Qty: (4+4+8) + (2+2+4+4+2+2+4+4)	6	Mechanical	Total wt:862.8kg + 157.8kg
197	Horizontal Brace	DRG No.70002/k/16563 B-16HF-15(K), B-16HF-19(K) B-16HF-20(K), Qty: (1+1+1)	6	Mechanical	Total wt:289kg
198	Angle Iron + Steel Plate	Qty: (2+2+2) + (1+1+1+1+1+1+1+1)	6	Mechanical	Total wt:181kg + 66.6kg
199	Horizontal Brace	DRG No.70002/k/16562 B-16HF-8(K), B-16HF-9(K) B-16HF-10(K), Qty: (1+1)	6	Mechanical	Total wt:179kg
200	Angle Iron + Steel Plate	Qty: (2+2) + (4)	6	Mechanical	Total wt:105.4kg + 53.2kg
201	Horizontal Brace	DRG No.70002/k/16561 B-16HF-6(K), B-16HF-7(K) B-16HF-11(K), B-16HF-12(K), B-16HF-13(K), B-16HF-14(K), Qty: (6)	6	Mechanical	Total wt:582kg
202	Angle Iron + Steel Plate	Qty: (12) + (16)	6	Mechanical	Total wt:373.6kg + 136.2kg
203	Horizontal Brace	DRG No.70002/k/16560 B-16HF-1~5(K), B-16HF-16~18(K) Qty: (8)	6	Mechanical	Total wt:771kg
204	Angle Iron + Steel Plate	Qty: (12) + (29)	6	Mechanical	Total wt:496.4kg + 188.6kg
205	Horizontal Brace	DRG No.70002/k/16560 B-16HF-1~5(K), B-16HF-16~18(K) Qty: (8)	6	Mechanical	Total wt:771kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
206	Angle Iron + Steel Plate	Qty: (12) + (29)	6	Mechanical	Total wt:496.4kg + 188.6kg
207	Column	DRG No.70002/k/16553 B-C-F13 (k) , B-C-F17 (k) Qty: 02	6	Mechanical	Total wt:8135kg
208	Angle Iron + Steel Plate	Qty: (8) + (24)	6	Mechanical	Total wt:82.4kg + 7994.4kg
209	Column	DRG No.70002/k/16552 B-C-F12 (k) , B-C-F18 (k) Qty: 02	6	Mechanical	Total wt:3575kg
210	Angle Iron + Steel Plate	Qty: (4) + (20)	6	Mechanical	Total wt:20.8 + 3525.2kg
211	Column	DRG No.70002/k/16554 B-C-G12 (k) , B-C-G18 (k) Qty: 02	6	Mechanical	Total wt:3696kg
212	Angle Iron + Steel Plate	Qty: (8) + (24)	6	Mechanical	Total wt:41.6 kg + 3619.2kg
213	Column	DRG No.70002/k/16553 B-C-G13 (k) , B-C-G17 (k) Qty: 02	6	Mechanical	Total wt:4270kg
214	Angle Iron + Steel Plate	Qty: (8) + (24)	6	Mechanical	Total wt:71.2kg + 4162.6kg
215	Tube Sheet	Drawing No. 70002/K/21854 Tube Sheet, Web, Plate Qty (1+2+4)	6	Mechanical	Total wt:104.36 kg
216	Feed Water Deaerator	Type: GC-175	6	Mechanical	Total wt:25775 kg
217	Boiler Outlet Silencer	DRG No 70002/k/10920	6	Mechanical	Total wt:2600 kg
218	Exhaust Silencer	DRG No 7002/k/10922	6	Mechanical	Total wt:7900 kg
219	Swing Check valve	DN: 150mm , PN: 90mbar 04 Nos Qty:	6	Mechanical	Total wt:07 kg each
220	Horizontal Brace	DRG No.70002/k/16356 F-12HE-6 (K), F-12HE-5 (K), F-12HE-8 (K),F-12HE-17 (K), F-12HE-16 (K), F-12HE-19 (K) Qty: (6)	6	Mechanical	Total wt:502kg
221	Angle Iron + Steel Plate	Qty: (50)	6	Mechanical	Total wt:535.8
222	Horizontal Brace	DRG No.70002/k/16355 F-12HE-1 (K), F-12HE-2 (K), F-12HE-3 (K),F-12HE-4 (K), 12HE-7 (K), F-12HE-18 (K) Qty: (6)	6	Mechanical	Total wt:775kg
223	Angle Iron + Steel Plate	Qty: (38)	6	Mechanical	Total wt:321.8
224	Horizontal Brace	DRG No.70002/k/16359 F-12HF-37 (K), F-12HF-20 (K), F-12HF-36 (K), F-12HF-21 (K), F-12HF-39 (K), F-12HF-22 (K) F-12HF-38 (K), F-12HF-23 (K) Qty: (8)	6	Mechanical	Total wt:1386kg
225	Angle Iron + Steel Plate	Qty: (92)	6	Mechanical	Total wt:1386kg
226	Column	DRG No.70002/k/16353 F-C-H 14 (K), F-C-H 16 (K), Qty: (2)	6	Mechanical	Total wt:5267kg
227	Angle Iron + Steel Plate	Qty: (10)	6	Mechanical	Total wt:5267kg
228	Horizontal Brace	DRG No.70002/k/16357 F-12HE-9 (K), F-12HE-10 (K), F-12HE-11 (K), Qty: (1)	6	Mechanical	Total wt:853kg
229	Angle Iron + Steel Plate	Qty: (11)	6	Mechanical	Total wt:842.2kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
230	Beam	DRG No.70002/k/16381 F- 12BF-16(k) , F-12BF-28(k), Qty: (2)	6	Mechanical	Total wt:2805kg
231	Steel Plate	DRG No YT15-503 Qty: (15)	6	Mechanical	Total wt:2813kg
232	Beam	DRG No.70002/k/16382 F- 12BF-17(k) , F-12BF-27(k), Qty: (2)	6	Mechanical	Total wt:7534kg
233	Steel Plate	DRG No YT15-503 Qty: (26)	6	Mechanical	Total wt:7534kg
234	Beam	DRG No.70002/k/16380 F- 12BE-13(k) Qty:	6	Mechanical	Total wt:7534
235	Steel Plate	DRG No YT15-503 Qty: (14)	6	Mechanical	Total wt:3124kg
236	Beam	DRG No.70002/k/16379 F- 12BE-9(k) Qty:	6	Mechanical	Total wt:
237	Steel Plate	DRG No YT15-503 Qty: (16)	6	Mechanical	Total wt:3612.9kg
238	Beam	DRG No.70002/k/16378 F- 12BE-7(k) , F-12BE-6(k), Qty: (2)	6	Mechanical	Total wt:2402kg
239	Steel Plate	DRG No YT15-503 Qty: (22)	6	Mechanical	Total wt:2051kg
240	Beam	DRG No.70002/k/16375 F- 12BE-2(k) , F-12BE-1(k), Qty: (2)	6	Mechanical	Total wt:1702kg
241	Steel Plate	DRG No YT15-503 Qty: (17)	6	Mechanical	Total wt:1662kg
242	Beam	DRG No.70002/k/16377 F- 12BE-12(k) , F-12BE-8(k), F- 12BE-4(k), Qty: (2)	6	Mechanical	Total wt:1085kg
243	Steel Plate	DRG No YT15-503 Qty: (12)	6	Mechanical	Total wt:791kg
244	Beam	DRG No.70002/k/16376 F- 12BE-5k) , F-12BE-3(k), Qty: (2)	6	Mechanical	Total wt:1690kg
245	Steel Plate	DRG No YT15-503 Qty: (21)	6	Mechanical	Total wt:1564kg
246	Horizontal Brace	DRG No.70002/k/16360 F- 12HF-26 (K), F-12HF-43 (K), F-12HF-27 (K), F-12HF-42 (K), F-12HF-24 (K), F-12HF-41 (K) F- 12HF-25 (K), F-12HF-40 (K) Qty: (8)	6	Mechanical	Total wt:1394kg
247	Angle Iron + Steel Plate	Qty: (85)	6	Mechanical	Total wt:1627.8kg
248	Horizontal Brace	DRG No.70002/k/16362 F- 12HF-35 (K), F-12HF-31 (K) F- 12HF-34 (K), F-12HF-30 (K) Qty: (4)	6	Mechanical	Total wt:1556kg
249	Angle Iron + Steel Plate	Qty: (42)	6	Mechanical	Total wt:776.8kg
250	Horizontal Brace	DRG No.70002/k/16361 F- 12HF-29 (K), F-12HF-33 (K) F- 12HF-28 (K), F-12HF-32 (K) Qty: (2)	6	Mechanical	Total wt:441kg
251	Angle Iron + Steel Plate	Qty: (21)	6	Mechanical	Total wt:234.3kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
252	Beam	DRG No.70002/k/16383 F-12BF-19 k) , F-12BF-25 (k), Qty: (2)	6	Mechanical	Total wt:12617kg
253	Steel Plate	DRG No YT15-503 Qty: (24)	6	Mechanical	Total wt:12523.6kg
254	Beam	DRG No.70002/k/16384 F-12BF-20 k) , F-12BF-24 (k), Qty: (2)	6	Mechanical	Total wt:3178kg
255	Steel Plate	DRG No YT15-503 Qty: (11)	6	Mechanical	Total wt:3147.76kg
256	Beam	DRG No.70002/k/16385 F-12BF-21 k) , F-12BF-18.26 (k), F-12BF-23 k) Qty: (3)	6	Mechanical	Total wt:1657kg
257	Steel Plate	DRG No YT15-503 Qty: (13)	6	Mechanical	Total wt:1571kg
258	Beam	DRG No.70002/k/16386 F-12BF-22 k) , F-12BF-64 k) Qty: (2)	6	Mechanical	Total wt:3104kg
259	Steel Plate	DRG No YT15-503 Qty: (6)	6	Mechanical	Total wt:3058.4kg
260	Beam	DRG No.70002/k/16387 F-12BF-16 k) , Qty: (1)	6	Mechanical	Total wt:8080
261	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (17)	6	Mechanical	Total wt:8079.1kg
262	Beam	DRG No.70002/k/16388 F-12BF-38 ,58 k) , F-12BF-30,32,59,61 (k), F-12BF-33,62 k), F-12BF-31,60, k) , F-12BF-39,40,41) , F-12BF-50,51, 52) ,F-12BF-42,53 Qty: (18)	6	Mechanical	Total wt:1129kg
263	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (142)	6	Mechanical	Total wt:1117.4kg
264	Beam	DRG No.70002/k/16389 F-12BF-34,54 k) , F-12BF-37,57 k) Qty: (4)	6	Mechanical	Total wt:1855kg
265	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (34)	6	Mechanical	Total wt:1528.4kg
266	Beam	DRG No.70002/k/16390 F-12BF-35,56 k) , F-12BF-36,55 k) , F-12BF-48 k) Qty: (5)	6	Mechanical	Total wt:1044kg
267	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (37)	6	Mechanical	Total wt:1028.6kg
268	Beam	DRG No.70002/k/16391 F-12BF-43 k) , F-12BF-47 k) Qty: (2)	6	Mechanical	Total wt:1622kg
269	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (15)	6	Mechanical	Total wt:1573.9kg
270	Beam	DRG No.70002/k/16392 F-12BF-46 k) , F-12BF-44 k) , F-12BF-45 k) Qty: (3)	6	Mechanical	Total wt:1622kg
271	Angle Iron + Steel Plate	DRG No YT15-503 Qty: (15)	6	Mechanical	Total wt:1573.9kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
272	Beam	DRG No.70002/k/16393 F-12BF-49 k), Qty: (1)	6	Mechanical	Total wt:344
273	Angle Iron	Qty: (4)	6	Mechanical	Total wt:321.6kg
274	Steel Plate	DRG No YT15-503 Qty: (13)	6	Mechanical	Total wt:7422.2kg
275	Beam	DRG No.70002/k/16394 F-12BH-63 k), F-12BH-65 k), Qty: (2)	6	Mechanical	Total wt:8222kg
276	Angle Iron	Qty: (8)	6	Mechanical	Total wt:482kg
277	Steel Plate	DRG No YT15-503 Qty: (16)	6	Mechanical	Total wt:9853.6kg
278	Beam	DRG No.70002/k/16395 F-12BE-10 k), F-12BE-14 k), F-12BE-11 k), F-12BE-15 k) Qty: (4)	6	Mechanical	Total wt:1066kg
279	Angle Iron	Qty: (16)	6	Mechanical	Total wt:131.2kg
280	Steel Plate	DRG No YT15-503 Qty: (12)	6	Mechanical	Total wt:934.8kg
281	Beam	DRG No.70002/k/16398 F-6BE-1-4 k), Qty: (4)	6	Mechanical	Total wt:2198kg
282	Angle Iron	Qty: (16)	6	Mechanical	Total wt:33.6kg
283	Steel Plate	DRG No YT15-503 Qty: (44)	6	Mechanical	Total wt:1803.2kg
284	Beam	DRG No.70002/k/16399 F-6BF-6 k), Qty: (1)	6	Mechanical	Total wt:620kg
285	Angle Iron	Qty: (5)	6	Mechanical	Total wt:8.4kg
286	Steel Plate	DRG No YT15-503 Qty: (15)	6	Mechanical	Total wt:599kg
287	Beam	DRG No.70002/k/16400 F-6BH-7 k), Qty: (1)	6	Mechanical	Total wt:615kg
288	Angle Iron	Qty: (4)	6	Mechanical	Total wt:8.4kg
289	Steel Plate	DRG No YT15-503 Qty: (15)	6	Mechanical	Total wt:593.1kg
290	Beam	DRG No.70002/k/16400 F-6BE-5 k), Qty: (1)	6	Mechanical	Total wt:452kg
291	Angle Iron	Qty: (4)	6	Mechanical	Total wt:8.4kg
292	Steel Plate	DRG No YT15-503 Qty: (12)	6	Mechanical	Total wt:522.5kg
293	INLET Duct Right and Left face	DRG No.70002/k/16046 Qty: (02)	6	Mechanical	Total wt:6234kg
294	INLET Duct Bottom plate	Qty:(1)	6	Mechanical	Total wt:2107kg
295	INLET Duct roof	Qty:(1)	6	Mechanical	Total wt:629kg
296	INLET Duct front face	Qty:(1)	6	Mechanical	Total wt:808.5kg
297	Corner I,II,III	Qty:(22)	6	Mechanical	Total wt:317kg
298	Fixed Point	Qty:(1)	6	Mechanical	Total wt:1143kg
299	Nut & Bolts, M16X35	Qty:(99)	6	Mechanical	Total wt:13kg
300	INLET Duct Left and right face	DRG No.70002/k/16047 Qty: (02)	6	Mechanical	Total wt:3100
301	Casing I,II,III,IV,V	Qty:(5)	6	Mechanical	Total wt:3114.1kg
302	Casing I	DRG No.70002/k/16025	6	Mechanical	
303	Steel plate	Qty:(1)	6	Mechanical	Total wt:588.8kg
304	Stiffener 366x80 8mm	Qty:(30)	6	Mechanical	Total wt:166.7
305	Connected Plate	Qty:(3)	6	Mechanical	Total wt:1kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
306	Casing II	DRG No.70002/k/16026	6	Mechanical	
307	Steel plate	Qty:(1)	6	Mechanical	Total wt:620kg
308	Stiffener 366x80 r 8mm	Qty:(48)	6	Mechanical	Total wt:170kg
309	Connected Plate	Qty:(3)	6	Mechanical	Total wt:1kg
310	Casing III	DRG No.70002/k/16027	6	Mechanical	Total wt:
311	Steel plate	Qty:(1)	6	Mechanical	Total wt:625.3kg
312	Stiffener 366x80 r 8mm	Qty:(44)	6	Mechanical	Total wt:190.8kg
313	Connected Plate	Qty:(3)	6	Mechanical	Total wt:1kg
314	Casing IV	DRG No.70002/k/16028	6	Mechanical	Total wt:
315	Steel plate	Qty:(1)	6	Mechanical	Total wt:239.9kg
316	Stiffener 366x80 r 8mm	Qty:(17)	6	Mechanical	Total wt:52.7kg
317	Connected Plate	Qty:(3)	6	Mechanical	Total wt:1kg
318	INLET Duct Bottom plate	DRG No.70002/k/16048 (02) Qty:	6	Mechanical	Total wt:
319	Casing I,II,III,IV,V	Qty:(4)	6	Mechanical	Total wt:2105.1kg
320	Casing I	DRG No.70002/k/16029	6	Mechanical	Total wt:
321	Steel plate	Qty:(1)	6	Mechanical	Total wt:711.2kg
322	Stiffener 366x80 r 8mm	Qty:(28)	6	Mechanical	Total wt:190
323	Bent plate	Qty:(14)	6	Mechanical	Total wt:5.4kg
324	Connected Plate	Qty:(6)	6	Mechanical	Total wt:3.08kg
325	Casing II	DRG No.70002/k/16030	6	Mechanical	Total wt:
326	Steel plate	Qty:(1)	6	Mechanical	Total wt:661.5kg
327	Stiffener 366x80 r 8mm	Qty:(36)	6	Mechanical	Total wt:215.2
328	Bent plate	Qty:(10)	6	Mechanical	Total wt:3.4kg
329	Plate dia, 32/70 , 8mm	Qty:04	6		Total wt:0.6kg
330	Connected Plate	Qty:(7)	6	Mechanical	Total wt:3.4kg
331	Steel plate	Qty:(1)	6	Mechanical	Total wt:625.3kg
332	INLET Duct Roof	DRG No.70002/k/16049 (02) Qty:	6	Mechanical	Total wt:
333	Casing I,III,IV	Qty:(3)	6	Mechanical	Total wt:627.3kg
334	Casing	DRG No.70002/k/16032 (02) Qty:	6	Mechanical	Total wt:
335	Plate dia, 32/70 , 8mm	Qty:(1)	6	Mechanical	Total wt:237.5kg
336	Stiffener 366x80 r 8mm	Qty:(16)	6	Mechanical	Total wt:83
337	Bent plate	Qty:(2)	6	Mechanical	Total wt:0.6kg
338	Connected Plate	Qty:(7)	6	Mechanical	Total wt:3.42kg
339	INLET Duct front face	DRG No.70002/k/16031 (01) Qty:	6	Mechanical	Total wt:609.5kg
340	Stiffener 366x80 r 8mm	Qty:(32)	6	Mechanical	Total wt:191kg
341	Bent plate	Qty:(19)	6	Mechanical	Total wt:6.5kg
342	Column	DRG No.70002/k/16351 F 20 (K), Qty: (1) F-C-	6	Mechanical	Total wt:2486kg
343	Steel plate	Qty: (4)	6	Mechanical	Total wt:2465kg
344	Column	DRG No.70002/k/16352 H 11 (K), F-C-H 19 (K), Qty: (2) F-C-	6	Mechanical	Total wt:5182kg
345	Steel plate	Qty: (8)	6	Mechanical	Total wt:6161kg
346	Fixed Point	DRG No.70002/k/16355 Qty: (20)	6	Mechanical	Total wt:712kg
347	T Bar	Qty: (1)	6	Mechanical	Total wt:92kg
348	Un-readble item dia 508x26 Length=192mm	Qty: (1)	6	Mechanical	Total wt:337.4
	Foundation Structure		6		
349	Vertical Brace	DRG No.70002/k/16776 VE- 1 (K), F-VE- 2 (K), Qty: (2) F-	6	Mechanical	Total wt:616kg
350	Brace	Qty: (2)	6	Mechanical	Total wt:408kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
351	Steel plates	Qty: (12)	6	Mechanical	Total wt:474.8kg
352	Connection Plate of Joint	Qty: (2)	6	Mechanical	Total wt:208kg
353	Connection angle type 4, backing bar / connection plate	Qty: (40)	6	Mechanical	Total wt:134kg
354	Vertical Brace	DRG No.70002/k/16337 F-VF- 1 (K), F-VF- 2 (K), Qty: (2) Assembly	6	Mechanical	Total wt:1526.4kg
355	Brace	Qty: (2) Assembly	6	Mechanical	Total wt:1240kg
356	Steel plates	Qty: (6)	6	Mechanical	Total wt:1024.8kg
357	Part of Joint	Qty: (2)	6	Mechanical	Total wt:286.4kg
358	Connection angle-II type , backing bar IV Type / connection plate-I Type	Qty: (40)	6	Mechanical	Total wt:286.4kg
359	Vertical Brace	DRG No.70002/k/16338 F-VF- 3 (K), F-VF- 4 (K), Qty: (2) Assembly	6	Mechanical	Total wt:1631.4kg
360	Brace	Qty: (2) Assembly	6	Mechanical	Total wt:1194kg
361	Steel plates	Qty: (8)	6	Mechanical	Total wt:1302kg
362	Connection plate of Joint	Qty: (2)	6	Mechanical	Total wt:151kg
363	Connection plate -I type , Connection plate-II Type / Commonal used part of joint / backing bar I & IV Type / Connection Plate I & ii Type	Qty: (16+8+8+8)	6	Mechanical	Total wt:553.8kg
364	Vertical Brace	DRG No.70002/k/16334 F-VH- 1 (K), F-VH- 2 (K), Qty: (2) Assembly	6	Mechanical	Total wt:1480.6kg
365	Brace	Qty: (2) Assembly	6	Mechanical	Total wt:1306.2kg
366	Steel plates	Qty: (6)	6	Mechanical	Total wt:1302kg
367	Commonly used of Joint	Qty: ()	6	Mechanical	Total wt:161.6kg
368	Connection plate -I type , Connection angle-I Type / backing bar I & IV Type / Connection Plate I Type	Qty: (16+8+8+8)	6	Mechanical	Total wt:161.1kg
369	Vertical Brace	DRG No.70002/k/16340 F-VH- 3 (K), F-VH- 4 (K), Qty: (2) Assembly	6	Mechanical	Total wt:1509kg
370	Brace	Qty: (2) Assembly	6	Mechanical	Total wt:1286kg
371	Steel plates	Qty: (12)	6	Mechanical	Total wt:1374kg
372	connection plate of Joint	Qty: (2) Assembly	6	Mechanical	Total wt:103kg
373	Commonly used of Joint , Connection plate-I Type / Connection Angle- IV type/ backing bar IV Type /	Qty: (8+16+8+8)	6	Mechanical	Total wt:120kg
374	Vertical Brace	DRG No.70002/k/16341 F-VH- 1 (K), F-V 20-1 (K), F-VH- 2 (K) , F-V 20-2 (K), Qty: (4) Assembly	6	Mechanical	Total wt:2398.8kg
375	Brace	Qty: (4) Assembly	6	Mechanical	Total wt:1850kg
376	Steel plates	Qty: (20)	6	Mechanical	Total wt:1962.2kg
377	connection plate of Joint	Qty: (4) Assembly	6	Mechanical	Total wt:292kg
378	Commonly used part ,	Qty: (2)	6	Mechanical	Total wt:130.8kg
379	Connection plate-I Type / Connection Angle- IV type/ backing bar IV&V Type /	Qty: (8+16+8+8)	6	Mechanical	Total wt:295.2kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
380	Vertical Brace	DRG No.70002/k/16342 F-VII- 1 (K), F-V 20-3 (K), F-VII- 4 (K) , F-V 20-4 (K), Qty: (4) Assembly	6	Mechanical	Total wt:2141.8kg
381	Brace	Qty: (4) Assembly	6	Mechanical	Total wt:1880kg
382	Steel plates	Qty: (12)	6	Mechanical	Total wt:1193.4kg
383	Commonly used part ,	Qty: (2)	6	Mechanical	Total wt:261.6kg
384	Connection plate-I Type / Connection Angle- IV type/ backing bar IV&V Type /	Qty: (8+16+8+8)	6	Mechanical	Total wt:261.6kg
385	Vertical Brace	DRG No.70002/k/16343 F-V15- 1 (K), F-V 16-3 (K), Qty: (2) Assembly	6	Mechanical	Total wt:1541.6kg
386	Brace	Qty: (2) Assembly	6	Mechanical	Total wt:1414kg
387	Steel plates	Qty: (6)	6	Mechanical	Total wt:1396kg
388	Commonly used part ,	Qty: (2)	6	Mechanical	Total wt:127.6kg
389	Connection plate-I Type / Connection Angle- IV type/ backing bar IV&V Type /	Qty: (4+12+8+8)	6	Mechanical	Total wt:127.6kg
390	Vertical Brace	DRG No.70002/k/16344 F-V15- 2 (K), F-V 16-4 (K), F-V15- 2 (K), F-V 16-4 (K), Qty: (4) Assembly	6	Mechanical	Total wt:2404.4kg
391	Brace	Qty: (4) Assembly	6	Mechanical	Total wt:1844kg
392	Steel plates	Qty: (16)	6	Mechanical	Total wt:2040kg
393	Commonly plat of joint ,	Qty: (4) Assembly	6	Mechanical	Total wt:299
394	Commenly used of joint/	Qty: (4)	6	Mechanical	Total wt:261.2kg
395	Connection Angle- IV type/ backing bar IV Type / Connection plate I Type	Qty: (4+12+8+8)	6	Mechanical	Total wt:335kg
396	Column	DRG No.70002/k/16345 F-C-E 11 (k) , F-C-E 20 (k) Qty: 02 Assembly	6	Mechanical	Total wt:2989kg
397	Steel Plate	Qty: (8)	6	Mechanical	Total wt:2976.6kg
398	Column	DRG No.70002/k/16350 F-C-F 16 (k) Qty: 01 Assembly	6	Mechanical	Total wt:3257kg
399	Steel Plate	Qty: (5)	6	Mechanical	Total wt:3150.6kg
400	Column	DRG No.70002/k/16349 F-C-F 15 (k) Qty: 01 Assembly	6	Mechanical	Total wt:3247kg
401	Steel Plate	Qty: (5)	6	Mechanical	Total wt:3217.6kg
402	Column	DRG No.70002/k/16348 F-C-F 11 (k) Qty: 01 Assembly	6	Mechanical	Total wt:2486kg
403	Steel Plate	Qty: (4)	6	Mechanical	Total wt:2465kg
404	Vertical Brace	DRG No.70002/k/16532 B-VE-1 (K), B-VE-2 (K), Qty: (2) Assembly	6	Mechanical	Total wt:968.2
405	Brace	Qty: 2 asse'y	6	Mechanical	Total wt:485
406	Vertical Brace	DRG No.70002/k/16533 B-VE-3 (K), B-VE-4 (K), Qty: (2) Assembly	6	Mechanical	Total wt:664.2
407	Brace	Qty: 2 asse'y	6	Mechanical	Total wt:422
408	Steel Plate	Qty: (8)	6	Mechanical	Total wt:482
409	Miscellaneous		6	Mechanical	Total wt:424.2

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
410	Vertical Brace	DRG No.70002/k/16534 B-VE-5 (K), B-VE-6(K), Qty: (2) Assembly	6	Mechanical	Total wt:597.2
411	Brace	Qty: 2 asse'y	6	Mechanical	Total wt:329
412	Steel Plate	Qty: (8)	6	Mechanical	Total wt:411
413	Miscellaneous		6	Mechanical	Total wt:454
414	Vertical Brace	DRG No.70002/k/16535 B-VF-1.2.3.4 (K), Qty: (4) Assembly	6	Mechanical	Total wt:1011
415	Brace	Qty: 2 asse'y	6	Mechanical	Total wt:329
416	Steel Plate	Qty: (8)	6	Mechanical	Total wt:411
417	Miscellaneous		6	Mechanical	Total wt:454
418	Steel Plate	Qty: (3)	6	Mechanical	Total wt:1952kg
419	Lifting Plates	DRG No.70002/k/21778	6	Mechanical	
420	Clevis	Qty: (1)	6	Mechanical	Total wt:50.5
421	Plate	Qty: (3)	6	Mechanical	Total wt:294kg
422	Rot , TIE Rod, Wing Nut	Qty: (3)	6	Mechanical	Total wt:8kg
423	Outled duct of Gas Turbine	DRG No.70002/k/16058	6	Mechanical	Total wt:7483kg
424	Access Door with Ladder and Ladding Platform	DRG No.70002/k/16723	6	Mechanical	Total wt:190kg
425	Bottom outlet duct	DRG No.70002/k/16252	6	Mechanical	Total wt:260.2kg
426	Hanger II	DRG No.70002/k/16254	6	Mechanical	Total wt:70.2kg
427	Hanger I	DRG No.70002/k/16253	6	Mechanical	Total wt:5.9kg
428	Bottom outlet duct	DRG No.70002/k/16250	6	Mechanical	Total wt:261.6kg
429	Lower Outlet Duct	DRG No.70002/k/16249	6	Mechanical	Total wt:2210.2kg
430	Left and right face casing	DRG No.70002/k/16247	6	Mechanical	Total wt:597kg
431	Front and rare face casing	DRG No.70002/k/16248	6	Mechanical	Total wt:592.4kg
432	Middle Outlet Duct	DRG No.70002/k/16246	6	Mechanical	Total wt:2671kg
433	Front and rare face Duct	DRG No.70002/k/16245	6	Mechanical	Total wt:418.07kg
434	Left and right face casing	DRG No.70002/k/16244	6	Mechanical	Total wt:423.2kg
435	Upper outlet Duct	DRG No.70002/k/16243	6	Mechanical	Total wt:1879kg
436	Floor Drain Effulent Sump Piping	DRG No.70002/k/19170A	6	Mechanical	Total wt:V2.33kg
437	Waste Effulent Pump	DRG No.70002/k/16609 Type Tan1110D-2.2.2-G Speed 2900 rpm Head 17, Flow 30m ³ /HR	6	Mechanical	Total wt:70kg
438	Motor Waste Effulent Pump	Type: VI32S1-2 Power 5.5 KW Volt 400V Speed 2955 rpm	6	Electrical	Total wt:60kg
439	Waste oil Tank	DRG No.70002/k/19165	6	Mechanical	Total wt:194.7kg
440	Discharge of Effulent Pump (Channel, Gas Kit, Nut Bolt)	DRG No.70002/k/19162	6	Mechanical	Total wt:55kg
441	Vertical Brace	DRG NO. 70002/k/16536 B-VF-5 (k), B-VF-6 (k) , Qty:02	6	Mechanical	Total wt:1112.8kg
442	Brace	Qty: 02	6	Mechanical	Total wt:886kg
443	Steel plate	Qty: 08	6	Mechanical	Total wt:943.6KG
444	Miscellence :		6	Mechanical	Total wt:420kg
445	Vertical Brace	DRG NO. 70002/k/16538 B-VG-1 (k), B-VG-2 (k) , B-VG-3 (k), B-VG-11 (k) , B-VG-12 (k), B-VG-10 (k) , Qty:06	6	Mechanical	Total wt:3067.6kg
446	Brace	Qty: 06	6	Mechanical	Total wt:2608kg
447	Steel plate	Qty: 22	6	Mechanical	Total wt:2605KG
448	Miscellence :		6	Mechanical	Total wt:894kg

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
449	Vertical Brace	DRG NO. 70002/k/16539 B-VG-13 (k), B-VG-15 (k) , B-VG-5 (k), B-VG-04 (k) , B-VG-14 (k), B-VG-16 (k) , Qty:06	6	Mechanical	Total wt:2176kg
450	Brace	Qty: 06	6	Mechanical	Total wt:1546Kg
451	Steel plate	Qty: 22	6	Mechanical	Total wt:3677KG
452	Miscellence :		6	Mechanical	Total wt:994kg
453	Vertical Brace	DRG NO. 70002/k/16540 B-VG-8 (k), B-VG-7 (k) , B-VG-9 (k), B-VG-16 (k) , B-VG-17 (k), B-VG-18 (k) , Qty:06	6	Mechanical	Total wt:1662kg
454	Brace	Qty: 06	6	Mechanical	Total wt:919Kg
455	Steel plate	Qty: 16	6	Mechanical	Total wt:553.4KG
456	Miscellence :		6	Mechanical	Total wt:1465kg
457	Vertical Brace	DRG NO. 70002/k/16541 B-V12-1~4 (k), B-V18-1~4 (k) , Qty:08	6	Mechanical	Total wt:2698.4kg
458	Brace	Qty: 08	6	Mechanical	Total wt:2340kg
459	Steel plate	Qty: 28	6	Mechanical	Total wt:2334.4KG
460	Miscellence :		6	Mechanical	Total wt:655kg
461	Vertical Brace	DRG NO. 70002/k/16543 B-V12-7 (k), B-V18-7 (k) , Qty:02	6	Mechanical	Total wt:1077.6kg
462	Brace	Qty: 02 Nos	6	Mechanical	Total wt:607kg
463	Steel plate	Qty: 10	6	Mechanical	Total wt:828.4KG
464	Miscellence :		6	Mechanical	Total wt:1065.4kg
465	Vertical Brace	DRG NO. 70002/k/16544 B-V12-8.9 (k), B-V18-8.9 (k) , Qty:04	6	Mechanical	Total wt:1130kg
466	Brace	Qty: 02 Nos	6	Mechanical	Total wt:437kg
467	Steel plate	Qty: 16	6	Mechanical	Total wt:901.4KG
468	Miscellence :		6	Mechanical	Total wt:658kg
469	Vertical Brace	DRG NO. 70002/k/16545 B-V13-1.3.10 (k), B-V17-1.3.10 (k) , Qty:06	6	Mechanical	Total wt:1881kg
470	Brace	Qty: 06 Nos	6	Mechanical	Total wt:1640kg
471	Steel plate	Qty: 20	6	Mechanical	Total wt:1525KG
472	Miscellence :		6	Mechanical	Total wt:466kg
473	Vertical Brace	DRG NO. 70002/k/16546 B-V13-5.6 (k), B-V17-1.5.6 (k) , Qty:04	6	Mechanical	Total wt:1600kg
474	Brace	Qty: 04 Nos	6	Mechanical	Total wt:1334kg
475	Steel plate	Qty: 16	6	Mechanical	Total wt:1438KG
476	Miscellence :		6	Mechanical	Total wt:687kg
477	Vertical Brace	DRG NO. 70002/k/16547 B-U13-7 (k), B-U17-7 (k) , Qty:02	6	Mechanical	Total wt:1069.6kg
478	Brace	Qty: 04 Nos	6	Mechanical	Total wt:607kg
479	Steel plate	Qty: 10	6	Mechanical	Total wt:838.2KG
480	Miscellence :		6	Mechanical	Total wt:726kg
481	Vertical Brace	DRG NO. 70002/k/16548 B-V13-8 (k), B-V13-9 (k), B-V17-8 (k) , B-V17-9 (k) , Qty:04	6	Mechanical	Total wt:1129kg
482	Brace	Qty: 02 Nos	6	Mechanical	Total wt:437kg
483	Steel plate	Qty: 16	6	Mechanical	Total wt:901KG

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Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight
484	Miscellence :		6	Mechanical	Total wt:561kg
485	Vertical Brace	DRG NO. 70002/k/16549 B-V13-2.4.11 (k), B-V17-2.4.11 (k), Qty:06	6	Mechanical	Total wt:1884kg
486	Brace	Qty: 06Nos	6	Mechanical	Total wt:1641kg
487	Steel plate	Qty:22	6	Mechanical	Total wt:1445.6KG
488	Miscellence :		6	Mechanical	Total wt:470kg
489	Column	DRG NO. 70002/k/16550 B-C-E-12 (k), B-B-C-E-18 (k), Qty:02	6	Mechanical	Total wt:1900kg
490	Steel plate	Qty:8	6	Mechanical	Total wt:1886KG
491	Miscellence :		6	Mechanical	Total wt:14.6kg
492	Column	DRG NO. 70002/k/16551 B-C-E-13 (k), B-B-C-E-17 (k), Qty:02	6	Mechanical	Total wt:1998kg
493	Steel plate	Qty:10	6	Mechanical	Total wt:589KG
494	Miscellence :		6	Mechanical	Total wt:29.2kg
495	Overhead Crane (Accessories)	DRG NO. 70002/k/10950 Qty: 01 Capacity:16ton+2.5ton	6	Mechanical	Total wt:25000kg
496	Overhead Crane Track (Column & Beam)		6	Mechanical	Total wt: 100000kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
	STEAM TURBINE (CCPP)			Mechanical	
1	STEAM TURBINE (CCPP) Make: Herbin Turbine Works, P.R.China.	TYPE: N47-3.95 Rated Load : 47 MW Live Steam Pressure : 3.95 Mpa Live Steam Temp : 473°C Speed : 3000 rpm Back Pressure: 0.01 Mpa. Serial No. 106 No1 Manufacturing Date: 09/1992.	7	Mechanical	Total wt:75000kg
2	Diaphragm Carrier No.1	DRG: No106-037Z	7	Mechanical	Total wt:1495kg
3	Diaphragm Carrier No.2	DRG: No106-038Z	7	Mechanical	Total wt:1415kg
4	Diaphragm Carrier No.3	DRG: No106-039Z	7	Mechanical	Total wt:615kg
5	Diaphragm Carrier No.4	DRG: No106-040Z	7	Mechanical	Total wt:1355kg
6	Main Steam Stop Valve		7	Mechanical	Total wt:17kg
7	TURBO GENERATOR Make: Harbin Electric Machinery works China	Type: QFQ-5-2 Hydrogen Cooled Rated Capacity: 58.7500MVA Active Power: 50000kW Rated Voltage/ Current:11000V/3280A DRG NO:70002/K/33102	7	Electrical	Total wt:86970
8	UNIT TRANSFORMER OF CCP 63MVA (MAKE :)	Rated Power : 63000 kVA Voltage: 141 + 9 X 1.39 % /11 Kv	7	Electrical	Total weight: 85000kg
i	Rotor Assembly	Qty: 01	7		Total wt:25900kg
ii	Stator Assembly	Qty: 01	7		Total wt:102640kg
iii	Bearing Bracket (T-E)	Qty: 01	7		Total wt:6224.2kg
iv	Inner Bracket Assembly	Qty: 02	7		Total wt:282kg*2
v	Ornament Assembly	Qty:01	7		Total wt:1026kg
vi	Bearing Assembly	Qty:01	7		Total wt:930kg
vii	Gland Seal Assembly (T-E)	Qty:01	7		Total wt:155kg
viii	Seating plate layout	Qty:01	7		Total wt:5040kg
ix	Bearing Assembly	Qty: 01	7		Total wt:930kg
x	Bearing Bracket (C-E)	Qty: 01	7		Total wt:6224.4kg
xi	Hydrogen Cooler	Qty: 04	7		Total wt:850kg
xii	Bottom Cover	Qty: 04	7		Total wt:68.8kg
xiii	Top Cover	Qty: 04	7		Total wt:38.5kg
			7		
9	SURFACE CONDENSER (Shell + supporting structure etc)	Dr: No 70002/k/29102 Type: N-5500-1 Cooling Surface area : 5500 m ² Press: at steam side : 0.01 MPa (abs). Press: at water side : 0.255 MPa. Tube dia:25mm, t=1.25mm, Length: 7950mm Make : Herbin Turbine Works, P.R. China. DRG NO. 7000/k/13400	7	Mechanical	Total: wt: 142341kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
10	Cooling Water Tubes , Dia: 25x1.25mm, Length: 7950	DRG NO. 7000/k/13400 Qty: 8014	7	Mechanical	Total wt: 50333.3kg
11	Cooling Water Tubes , Dia: 25x1.25mm, Length: 7950	DRG NO. 7000/k/13400 Qty: 890	7	Mechanical	Total wt: 5876kg
10	Gland Condenser	Drawing No. 70002/k/13402 TYPE: LQ-50-1	7	Mechanical	Total wt:1603.5kg
11	Gland Fan Motor	Model : Y132S2-2-WTH Output : 7.5kW Qty:02	7	Electrical	Total wt:280
12	Flashing Tank of Condenser	Drawing No. 70002/k/13401 TYPE: SK-1-1	7	Mechanical	Total wt:715.764kg
13	Stop Valve	DN : 80 mm PN : 16 Bar	7	Mechanical	Total wt:194.91kg
14	Stop Valve	DN : 100 mm PN : 20 Bar	7	Mechanical	Total wt:162.36kg
15	Gate Valve	DN : 225 mm PN : 10 Bar	7	Mechanical	Total wt:641.004kg
16	Stop Check valve with motor operator device	DN : 200 mm DRG No. 2085.001	7	Mechanical	Total wt:637.53kg
17	Stop Check valve	DN : 150 mm PN : 10 DRG No. 2085.001	7	Mechanical	Total wt:243.234kg
18	Check valve	DN : 150 mm PN : 10 DRG No. 2144.0007	7	Mechanical	Total wt:200.21kg
19	Atmospheric Relief Valve	DRG No 7000/k/13119	7	Mechanical	Total wt:188.56kg
20	AUX. COOLING WATER COOLER (PLATE TYPE HEAT EXCHANGER).	TYPE: R13-J Design Pressure : 0.8 MPa. Testing Pressure : 1.2 MPa. Heating Surface area : 235 m ² . Design Temperature : 120°C. Qty: 02 Nos Manufacturing No. : 1005. Manufacturing Date : 04/1992. Make : Shanghai No.2 Chemical Machinery Works, P.R. China.	7	Mechanical	Total wt:5448kg
21	AUX. COOLING WATER PUMP	TYPE: LS125-100-200 (A). Capacity : 80 m ³ / hr. Head : 1.3 m. NPSH : 3.5 m. Power : 4.0 kW. Speed : 1450 RPM. Serial No : 33601 Qty: 03 Nos Make : Shanghai Pump Manufacturing, China.	7	Mechanical	Total wt:300kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
20	AIR COMPRESSOR (Non-Lubricated).	Model : 2Z-6/8-IA. Volume Flow : 6 m ³ / min.: Shaft Power : 37 kW. Discharge Pressure : 0.8 MPa. Serial No. : 005 Qty: 03 Nos Manufacturing Date : 11/1991. Make : Shangyan Gas Compressor, China.	7	Mechanical	Total wt:4500kg
22	Instrument AIR COMPRESSOR Motor	Model Y280S-8-WTH Power: 37kW Qty:02 Make: JIAMSUAI Electric Motor works China	7		Total wt:1020kg
23	Air Dryer	Sr No.06 2033 Capacity: 1.1m ³ Make: Shenyang Gas Compr: Works China	7		Total wt:229kg
24	SULLAIR AIR COMPRESSOR.	Model No : LS160-60HH/A. Rated Maximum Pressure : 150 / 160 PSIG. Serial No. : 003-136602. Qty: 01 Nos B.O.M No. : LS160/0200330. Make : Sullair Corporation, USA.	7	Mechanical	Total wt:1500kg
25	Control Box	Model: 2Z6/8-IA Dynamic Line: 400volt Amp:100 Make: Shenyang Explosian prof lenterns electric instruments factory China	7		Total wt:160kg
26	MAIN AUXILIARY LUBE OIL PUMP (Centrifugal Oil Pump)..	Type : 150 AY-150 X 2B. Head : 222 m. Capacity : 150 m ³ / hour. B.H.P. : 133 kW. Speed : 2950 rpm. Efficiency : 62%. NPSHr : 4 m. Serial No. : 220060. Manufacturing Date : 05/1992. Make : Shanyang Pump Manufactory China.	7	Mechanical	Total wt:2500kg
27	Turning Gear Motor	Model: YXJ132S-4 TH output: 5.5KW Make: Herbin 2 Electric Machinery Factory China	7	Electrical	Total wt:68

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
28	Main Lube oil Motor(A.C)	3ph-Induction Motor Rated Volt: 380v, 50hz ,71AMP Output: 38kW Speed: 2960rpm Make: Simens Germany	7	Electrical	Total wt:600kg
29	AUXILIARY AC/DC LUBE OIL PUMP (Process Pump)..	Type : SJ44 x 6 x 8½ L-C. Head : 31.2 m. Capacity : 132 m ³ / hour. B.H.P. : 15.1 kW. Speed : 2970 rpm. Efficiency : 73%. Serial No. : 220077-78. Manufacturing Date : 04/1992. Make : Shanyang Pump Manufactory China.	7	Mechanical	Total wt:500kg
30	AUXILIARY LUBE OIL PUMP (Motor)	Model: Y315MZ-2-WTH Power: 160kW Make: JIAMUSAI Electric Motor works P,R China	7		Total wt:1100
31	Bearing Auxiliary Lube Oil Pump Motor AC/DC	Model Y160L-2-WTH Power: 18.5kW	7		Total wt:=262*2
32	OIL PURIFIER MACHINE.	Type : YJ-4000. Purification Rate : 4000 L / hr. Serial No. : 4-007 Manufacturing Date : 12/1991. Make : Harbin Steam Turbine Works, China.	7	Mechanical	Total wt:1500kg
33	PURIFIER OIL CIRCULATING PUMP	Type : SB70. Flow Rate : 70 L/min: Pressure : 2.5 MPa. Speed : 1450 rpm. Make : Harbin Steam Turbine Works, China.	7	Mechanical	Total wt:150kg
34	LUBE OIL COOLERS.	Model : Type YL-2x235-1 Cooling Surface : 2x235 m ² . Cooling Water flow : 280 T/hr. Oil flow of Oil Cooler : 105.6 T/hr. Inlet Oil Temperature : 55°C Outlet Oil Temperature : 45°C Oil Press. in working condition : 0.245 MPa (g) Qty: 02 Nos Make : Harbin. China.	7	Mechanical	Total wt:=4700x2= 9400kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
35	Air Cleaner	Type: 6JU8(B) Capacity: 6m ³ / min DRG NO. 7000/k/87238 Make: Shenyang Gas Compr:works China	7	Mechanical	Total wt:870kg
36	THREE WAY VALVE	Type : FQ-200-1 Oil flow at Inlet : 158 T/hr. Oil Temperature at Inlet : 65°C. Design Pressure : 1.37 MPa Size : Dg200, Make : Harbin China.	7	Mechanical	Total wt:450kg
37	DE-SUPERHEATING AND REDUCING DEVICE	Type : WY-160-120. Design Steam Pressure (Before) : 0.59 MPa. Design Steam Temp (Before) : 160°C. Design Steam Pressure (After) : 0.017 MPa. Design Steam Temp (After) : 83.9°C. Steam Flow : 120 T/hr. Make Harbin, China.	7	Mechanical	Total wt:3000kg
38	JACKING OIL PUMP (A.C).	Drg: No 70002/k/29109 Model : 25 CCY. Flow Rate : 25 Power : 1500 kW. Head : 13.5 MPa / m. Serial No. : OC201606051-03304. Make : Wenzu Deffu Machinery Co, Ltd, China.	7	Mechanical	Total wt:586kg
39	Motor	Type: YB0M-4-WTH Output: 18.5 kW Rated Voltage: .04kV, 33A Make: IAMUSAI Electric Motor works China	7	Electrical	Total wt:180kg
40	JACKING OIL PUMP (D.C).	Model : CCY14-IB. Flow Rate : 25 ml/rev: Speed : 1500 rpm. Head : 31.5 MPa / m. Make: Wenzu DEFFU Machinery Co, Ltd,China.	7	Mechanical	Total wt:300kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
41	Feed Water Pump HRSG	Type: DGJ 85-80x9 Capacity: 105 m3/hr Head : 640 meter Input Power: 249kW Motor Power: 285kW Speed: 2967 rpm Efficiency: 68% QTY: 03 NO3 Make: Shenyang Pump Manufactory PR China	7	Mechanical	Total wt:3000kg
42	Motor Feed Water Pump	Type: YKK4001-2W-TH Output: 285kW Rated Voltage: 3.3 kV Rated Current : 61.4 Amp , 50HZ, Speed: 2980 rpm Make: Xian Tech Full SIMO Motor Co China	7	Electrical	Total wt:2823kg
43	Motor Condensate Pump	Type: Y315M-4-WTH Output : 132kW Rated Voltage : .4kV, 50HZ, 220A, Qty: 02 Nos. Make: JIAMUSAI Electric Motor works China	7	Electrical	Total wt:1100kg
44	CONDENSATE PUMP .	Type : 5DTN-14, Head : 120 m. Capacity : 256 m ³ / hr. NPSH : 3.5 m. Speed : 1480 rpm. Shaft Power : 117 kW. Efficiency : 71.5% Serial No. : 13601 Qty: 02 Nos. Manufacturing Date : 09/1992 Make : Shanyang Pump Manufactory China.	7	Mechanical	Total wt:2000x2= 4000 kg
45	Motor of CWPUMP	Type: Y630-8-WTH Output: 625kW Rated Voltage: 3.3kV, 135.9A Qty: 03 Nos Make: IAMUSAI Electric Motor works China	7	Electrical	Total wt:=11500*3
46	Auxiliary C.W Pump Motor	Model: Y20021-2-WTH Power: 30kW Qty:03 Make: JIAMUSAI Electric Motor works P,R China	7	Electrical	Total wt:=255*3
47	MAIN C.W.PUMP,(CENTRIFUGAL PUMP).	Type.: 32SHG-III-19-K Capacity : 6350 m ³ /hr Speed : 730 Rpm Power : 630 kW, Qty: 04 Nos Make Shenyang China,	7	Mechanical	total weight is 6509kg*4=

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
48	Motor Main C.W Pump		7	Mechanical	Total wt:1590
49	Air Storage Tank	Type: 91-C100 Capacity: 16m ³ Qty:02 Operating Pressure: 08bar Design Pressure: 8.8bar	7	Mechanical	total wt:11370
50	CENTRIFUGAL Pump	Type: LS-I -25100-200 Head: 13.5mtr Output Power :4kW NPSH. 3.5mtr Speed: 1450rpm Serial No: 3380 Make: Shenyang Pump Manufacturing works China QTY: 03	7	Mechanical	Total wt: 750kg
51	MAKE-UP PUMP (Centrifugal Pump).	Type : LS50-32-160. Head : 32 m. Capacity : 12.5 m ³ / hr. Shaft Power : 2.02 kW Speed : 2900 rpm. Efficiency : 54% Serial No. : 33577 Qty: 02 Nos. Manufacturing Date : 02/1992 Make : Shanyang Pump Manufactory China.	7	Mechanical	Total wt: 150kg
52	VACUUM PUMP (Water Ring Vacuum Pump).	Type : 2BEI-253-0. Capacity : 2330 m ³ / hr. Ultimate Vacuum : 3.3 KPa Speed : 740 rpm. Power : 75 kW Serial No. : 031 Manufacturing Date : 01/1991 Make : Shanyang Pump Manufactory China.	7	Mechanical	3000kg
53	Motor Vacuum Pump	Type: 315M1-8-WTH Output : 75kW Rated Voltage: 0.4kv, 142.5 A, 50 HZ, Qty: 02 Nos Make: JIAMUSAI Electric Motor works China	7	Electrical	Total wt:2200*2
54	SEAL OIL PUMP (AC/DC).	Type : 3G 50x2. Pressure : 0.6 MPa.. Flow Rate : 6.2 m ³ / hr. Speed : 1450 rpm. Shaft Power : 2.6 kW Serial No. : Manufacturing Date : 07/1991	7	Mechanical	Total wt:150kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
55	STRAINER / FILTER OIL COOLER.	Type : LS250-16. Inner Dia : 250 mm. Outer Dia : 250 mm. Working Pressure : 0.245 MPa. Serial No. : 106-001 Manufacturing Date : 07/1992 Make : Herbin Turbine Works, P.R. China.	7	Mechanical	Total wt:50kg
56	Condenser inlet/outlet valves (butterfly type)	Type : D941X-10. Nominal Pressure : 10 bar. Nominal Dia : 1000 mm. Temperaturte: 50°C Manufacturing Date : 05/1992 Make : ANSHAN CENTRAL WORKS. China	7	Mechanical	Total wt:800kg
57	Rubber Expansion Joint (Condenser inlet / outlet line)	Type : D941X-10. Nominal Pressure : 10 bar. Nominal Dia : 1000 mm.	7	Mechanical	Total wt:300kg
58	WATER SEAL GATE VALVE (HRSG bypass Line Towards Condenser)	Type : DSZ44H. Nominal Pressure : 16 barg Nominal Dia : 400 mm. Temperature: 425°C Medium: Water Vapor Air Rucion No. LBH21-AA001 Manufacturing Date : 07/1992 Make : SHANGTANG POWER STATION VALVE PLANT YANGUE ZHEUIANG. China	7	Mechanical	Total wt:500kg
59	ELECTRION WATER SEAL GATE VALVE (VACUUM BREAKER VALVE)	Type: ds/z964 h pn: 25barg dn: 100mm suitable temp ≤425CS Suitable Medium: water vapor air SHANGTANG POWER STATION VALVE PLNAT YONGJIA,ZHEJIANG, CHINA.	7	Mechanical	Total wt:50 kg
60	CENTRIFUGAL BLOWER.	Type : PQH-4 Volume of Flow : 550 m ³ /hr. Total Pressure : 9000 Pa. Operating Temperature : 60°C. Speed : 2900 rpm, Power : 7.5 kW. Model of Motor : YL625-2 Manufacturing Date : 02/1992. Make : JALING CITY AIR BLOWER FACTORY, CHINA.	7	Mechanical	Total wt:300kg
61	H.P GLAND SPRAY NOZZLE..	Model No. : DMA-AXI Serial No. : ATL914190-1 Pressure Class : ANSI150/150. Material : SA182GR/EO. P.O. No. : 91HTW-07001CH. Make : CON-TEK VALVES, ATLANTA, USA.	7	Mechanical	Total wt:145kg

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
77	Fan base frame	Code No.L92B-80 Qty: 01 No	7	Mechanical	Total wt:900kg
78	Main Steam and bypass steam pipes in SteamTurbine Building	DRG No 7000/k/2989	7	Mechanical	Total wt:16300
79	Main Steam and bypass steam pipes in SteamTurbine Building	DRG No 7000/k/29338	7	Mechanical	Total wt:36638
80	Assembly drawing of Cylinder	DRG No 7000/k/13103	7	Mechanical	Total wt:2262.0kg
81	Flange of Roof	DRG No 7000/k/21812	7	Mechanical	Total wt:744.32
82	Closed Box & Expansion Joints	DRG No 7000/k/16178	7	Mechanical	Total wt:45.82
83	Closed Box & Expansion Joints	DRG No 7000/k/16179, DRG No. 70000/k/16180, DRG No. 70000/k/16181	7	Mechanical	Total wt:106.42
84	Closed Plate	DRG No. 70000/k/16182,	7	Mechanical	Total wt:11.31
85	Closed Box & Expansion Joints	DRG No. 70000/k/16186, DRG No. 70000/k/16187,	7	Mechanical	Total wt:94.72
86	Closed Plate	DRG No. 70000/k/16188	7	Mechanical	Total wt:21.31
87	Seal Plate	DRG No. 70000/k/16239	7	Mechanical	Total wt:651.24
88	Deflectors	DRG No. 70000/k/16240	7	Mechanical	Total wt:68.9
	Demineralization Plant		7		
89	Pressure Media Filter	Type: GJX-1200/10 Working Pressure: 6Barg Operating Mediam: Water. Diameter: 1200mm Qty: 02	7	Mechanical	Total wt:1786kg each
90	Activated Carbon Filter	Type: GHT-1200/10 Working Pressure: 6Barg Operating Mediam: Water. Diameter: 1200mm Qty: 02	7	Mechanical	Total wt:1936 x 2= 3872kg
91	Booster Water Tank	Type: ZSX-1600/5 Capacity: 5ton Qty: 02	7	Mechanical	Total wt:1531kg each
92	Counter Current Regenration Anion Exchanger	Type: LSCY2-800/10 Working Pressure: 6barg Diameter: 800mm Qty: 02	7	Mechanical	Total wt:1209kg each
93	Thermal Water Tank	Type: SRX-1500/8 Serial No: 91-1 Pressure: Normal Pr Capacity : 8m ³ Make: Mudan Jiang Boiler Working Qty:01	7	Mechanical	T: wt: 1856kg
94	Mixed Bed Exchanger	Type: LHH-600/11 Working Pressure:6Barg Diameter: 600mm Qty:02	7	Mechanical	Total wt:1020kg each
95	Diaphragm Valves (off sizes)	DN50, PN 10 bar		Mechanical	
96	0.7 Tons Corrosion Inhibitor Mix Tank	Drq No. 70002/K/87327	7	Mechanical	T: wt: 492.89kg
97	1.5TonsHypochloride Mixed Tank	Drq No. 70002/K/87324	7	Mechanical	T: wt: 960kg
98	0.5 Tons Ammonia Mixed Tank	Drq No. 70002/K/87321	7	Mechanical	T: wt: 1308kg
99	0.5 Tons Phosphate Mixed Tank	Drq No. 70002/K/87322	7	Mechanical	T: wt: 1308kg
	Cooling Water Pump House	Section 1-1,2-2,3-3 Drq No. 70002/K/10612	7	Mechanical	
100	Puddle Flange	Qty 13	7	Mechanical	Total wt:261.349kg (CS)

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
101	Steel Pipe	Qty 80077 meter	7	Mechanical	Total wt:6091.264kg
102	Flange	DG 300 Pg 1 MPa	7	Mechanical	Total wt:3678.315kg
103	Eccentric Reducer	DN 400 DN 250 (off sizes)	7	Mechanical	Total wt:1050kg
104	Support for bell pipe		7	Mechanical	Total wt:442.27kg
105	Condensate water pipe in Stream Turbine Building	DN 80 Drg no. 70002/K/292	7	Mechanical	Total wt:8938kg
106	Condensate pipeline in Boiler Area	Drg no. 70002/K/29372	7	Mechanical	Total wt:3123kg
107	Opened Circuit Cooling Water Pipe And Steam Turbine Building	Drg no. 70002/K/17315	7	Mechanical	Total wt:46900kg
108	Auxiliary Closed Circuit Cooling Water Pipe	Drg no. 70002/K/17348	7	Mechanical	Total wt:8323kg
109	Orifise plate of SEW	Drg no. 70002/K/17331	7	Mechanical	Total wt:13kg
110	Support of Head Tank in Acid and Caustic Storage Room	Drg No. 70002/K/19607	7	Mechanical	Total wt: 14.84kg
111	Erection drawing of Emergency Shower	Drg No. 70002/K/19608	7	Mechanical	Total wt: 2.12kg
112	Erection drawing of Tank Waste Effluent Pump	Drg No. 70002/K/19609	7	Mechanical	Total wt: 38.43kg
113	Base of Waste Effluent Pump	Drg No. 70002/K/19610	7	Mechanical	Total wt: 34.44kg
114	Erection drawing of RB-50 Blower and CKM-50 Silencer in Neutralizing Pit	Drg No. 70002/K/19611	7	Mechanical	Total wt: 2.69kg
115	Erection drawing of T2-Md 25/0.6 Acid Dosing Pump	Drg No. 70002/K/19612	7	Mechanical	Total wt: 1.72kg
116	Erection drawing of Bulk Acid Unloading Pump & Bulk Caustic unloading Pump	Drg No. 70002/K/19613	7	Mechanical	Total wt: 1.49kg
117	Reduding Flange in Acid & Cautic Storage Room	Drg No. 70002/K/19614	7	Mechanical	Total wt: 5.77kg
118	Join Pipe in Acid and Caustic Storage Room	Drg No. 70002/K/19615	7	Mechanical	Total wt: 1.26kg
119	Join Pipe in Acid and Caustic Storage Room	Drg No. 70002/K/19616	7	Mechanical	Total wt: 4.35kg
120	Exhaust Pipe of Neutralizing Pit	Drg No. 70002/K/19617	7	Mechanical	Total wt: 16.28kg
121	Strainer of Drain Ditch of Neutralizing Pit	Drg No. 70002/K/19620	7	Mechanical	Total wt: 4.03kg
122	Emnedded Pipe(1) of Neutralizing Pit inlet	Drg No. 70002/K/19622	7	Mechanical	Total wt: 21.78kg
123	Clarified Water Tank (Gen DRG)	Capacity: 300m3 Drg No.70002/K/19872	7	Mechanical	Total wt: 14371.35kg
124	Clarified Water Tank Cylinder Body	Capacity: 300m3 Drg No.70002/K/19873	7	Mechanical	Total wt: 13341.5kg
125	Spiral Stair and Plateform of Calrified Tank	Drg No.70002/K/19874	7	Mechanical	Total wt: 880.4kg
126	Water Inlet pipe of Calirief Water Tank	Drg No.70002/K/19875	7	Mechanical	Total wt: 5.94kg
127	Top Manhole Hole of Caliried Water Tank	Drg No.70002/K/19876	7	Mechanical	Total wt: 31.76kg
128	Breath pipe of Calirief Water Tank	Drg No.70002/K/19877	7	Mechanical	Total wt: 6.93kg
129	Orifise plate of SEW	Drg no. 70002/K/17331	7	Mechanical	Total wt:37kg
130	Auxiliary Closed Circuit Cooling Water Pipe in Steam Turbine Building	Drg no. 70002/K/17328	7	Mechanical	Total wt:6696kg
131	Auxiliary Closed Circuit Cooling Water Head Tank	Drg no. 70002/K/14121	7	Mechanical	Total wt:627kg
132	Auxiliary Closed Circuit Cooling Water Tank Outer Ladder	Drg no. 70002/K/14125	7	Mechanical	Total wt:37.501
133	Auxiliary Closed Circuit Cooling Water Tank Roof Main hole	Drg no. 70002/K/14126	7	Mechanical	Total wt: 30.252
134	Doozing part of SEW Cooling Water Pipe In Stream Turbine	Drg no. 70002/K/17330	7	Mechanical	Total wt: 28.1 kg
135	Phosphate Dosing Equipment	Valume: 05m ³ Temp: 40c Design Pr: 0.1mpa Serial No.604	7	Mechanical	Total wt:650

GAS TURBINE POWER STATION KOTRI

Name of Equipment with Approx: Weight

Sr#	Equipment	Description	Unit	Department	Weight (kg)
136	Plunger Metering Pump	Model: J-X20/6.3 Capacity: 20ltr/hr Design Pr: 6,3mpa Pump Spee. 104rpm Motor Power. 0.55kw Make Chongoing Pump works China QTY: 09	7	Mechanical	Total wt:65*9=585
137	Dirty Oil Pipe & Accessories of Steam Turbine	Drg No.70002/K/29289 Seamless pipe, gate valves , reducer, fleng, etc	7	Mechanical	Total wt: 409kg
138	Equipment Drain Water Pipe and Steam Turbine Building	Drg No.70002/K/29314	7	Mechanical	Total wt:1048kg
139	Jack oil pipes of Steam Turbine	Drg No.70002/K/29294	7	Mechanical	total wt:312kg
140	Equipment Drain Water Pipe and Steam Turbine Building	Drg No.70002/K/29310	7	Mechanical	total wt:686.3kg
141	Water Seal pipe in Steam Turbine Buildnig	Drg No.70002/K/29313	7	Mechanical	Total wt:268kg
142	Vaccume Breakdown Pipe for Condensent	Drg No.70002/K/29307	7	Mechanical	Total wt:342kg
143	Discharge Water pipe for Steam Turbine Building	Drg No.70002/K/29300	7	Mechanical	Total wt:88kg
144	Drain Pipe for Gland Steam Condensor	Drg No.70002/K/29297	7	Mechanical	Total wt:330kg
145	50kL Reserve Feed Water Tank	Drg No.70002/K/14601	7	Mechanical	Total wt:4735kg
146	Feed Water Pipe in Boiler area	Drg No.70002/K/29357	7	Mechanical	Total wt:11197kg
147	Overhead Crane (Accessories)	Drg No.70002/K/87354 Capacity: 32/5 ton	7	Mechanical	Total wt:29923kg
148	Host and Overhaul Facilities for Feed Water Pump	Drg No.70002/K/29178 Capacity: 2.48 ton	7	Mechanical	Total wt:50
149	Overhead Crane for Steam Turbine	Capacity 13X5ton Drg No.70002/K/87351	7	Mechanical	Total wt:1212kg
150	Overhead Crane (Electrical General Drawing)	Drg No.70002/K/87369	7	Mechanical	Total wt:10498kg
151	Lube Oil Pipe for Stream turbine (Generator Unit)	Drg No.70002/K/15102-1	7	Mechanical	Total wt:2525
152	Lube Oil Pipe for Stream turbine (Generator Unit)	Drg No.70002/K/15102-2	7	Mechanical	Total wt:1621
153	Lube Oil Pipe for Stream turbine (Generator Unit)	Drg No.70002/K/15102-3	7	Mechanical	Total wt:1142
154	Generator H2 and CO2 Piping	Drg No.70002/K/15143	7	Mechanical	Total wt:612
155	Formed Reducer dn 150x100 Gland Steam Pipe	Drg No.70002/K/29232	7	Mechanical	Total wt:4.5
156	Flenge dn200 Gland Steam Pipe	Drg No.70002/K/29233	7	Mechanical	Total wt:6
157	Flenge dn100 Gland Steam Pipe	Drg No.70002/K/29234	7	Mechanical	Total wt:3
158	Gland Steam Pipe	Drg No.70002/K/29230-1	7	Mechanical	Total wt:2865
159	Gland Steam Pipe	Drg No.70002/K/29230-2	7	Mechanical	Total wt:4366
160	Drain Pipe in Steam Turbine Building	Drg No.70002/K/29252	7	Mechanical	Total wt:3411
161	Airdrying erection	Drg No.70002/K/29119	7	Mechanical	Total wt:11
162	Condensate water wakeup pump erection	Drg No.70002/K/29121	7	Mechanical	Total wt:3
163	Dirty Oil Drain tank (Accessories)	Drg No.70002/K/14180	7	Mechanical	Total wt:136
164	Auxiliary Closed cooling Pump erection	Drg No.70002/K/29123	7	Mechanical	Total wt:51.3

GAS TURBINE POWER STATION KOTRI

Sr#	Equipment	Description	Unit	Department
1	Cooling Towers for Steam Turbine (CCP) BNZ 200 Square Combined type	Counterflow glass fibre Reinforced Plastic Cooling Tower Type: BNZ-200 Make: Changzhou City Cooling TowerFactory China DRG No. 70002/k/87741	7	Mechanical
2	Axial Flow Fan	DRG No BNZ-200-I-0 Assembly	7	Mechanical
3	Wind Tube	DRG: No: BNZ-200-2-0		Mechanical
4	Eliminator	DRG: No: BNZ-200-3-0	7	Mechanical
5	Upper Circle Beam	DRG: No: BNZ-200-4-0	7	Mechanical
6	Water Distributing sytsem	DRG: No: BNZ-200-5-0	7	Mechanical
7	Filling / Fill	DRG: No: BNZ-200-6-0 Type: T25/600	7	Mechanical
8	Inlet/ outlet Water System	DRG: No: BNZ-200-7-0	7	Mechanical
9	Piller Distributing	DRG: No: BNZ-200-8-0	7	Mechanical
10	Filling Farme	DRG: No: BNZ-200-9-0	7	Mechanical
11	Face Plate	DRG: No: BNZ-200-10-0	7	Mechanical
12	Louvers	DRG: No: BNZ-200-11-0	7	Mechanical
13	Water Collecting Basin	DRG: No: BNZ-200-12-0	7	Mechanical
14	Lower Piller	DRG: No: BNZ-200-13-0	7	Mechanical
15	Check Ladder & Way	DRG: No: BNZ-200-14-0	7	Mechanical
16	Auto supplying pipe		7	Mechanical
17			7	Mechanical

7. DETAIL OF ALL KINDS OF OVERHEAD CRANES, HOISTS ETC.

Sr.No	Description of Overhead Crane	Location	QUANTITY
1	<p>Overhead Crane for HRSG 16ton+2x2.5ton Type: SWL 1x16T + 2X2.5T FEM 1Am Long Travel Speed: 20m/mint Cross Travel Speed: 10m/mint Main Host 16Ton: Verlinde SE306 SG Monorail Lifting Speeds 4104 m/min Lifting Height 10m Manual Host: Manual Verlinde 32531-32641 2x2.5T Power: Lift 12.5Kw Long Travel 4x0.55Kw Cross Travel 2x0.37Kw Main Voltage : 400v 3phase 50Hz Control Voltage: 48v 2phase 50Hz Drg No: 70002/k/10951</p>	HRSG 3,4,5,6	04
2	<p>Standard Electrical wire Rope Hoist Size & Type: Euro Bloc SE3.06.SG Sr.No 350708V01-02-03-04 Nominal Load: 16000kg Hook Travel : 10m Installation: Outdoor Maximum Load on each wheel:3350x6 Host weight in operation: 900kg Driving system: Lifting: Electric Two Speeds Traveling: Electric One speed Traverse: Electric-One Speed Lifting Cable: Type: 1006909-001 Material : Wire rope galvanized Diameter: 14mm Rupture Strength: 19480daN Length: 70mtr Manufacturer: Trefil Union</p>		04
3	<p>Overhead Crane for Steam Turbine Capacity: 32/5 ton Load Lifting Speed: 196m/min Load Lifting hight: 16mtr Power: 15/4.5k.w Travelling Speed:20.4/7.0m/min Power supply: 3phase, 50hz, 400v Transmission Ratio: 191.22 Drg No.70002/K/87354 Make : Dalian Crane works PR China</p>	Turbine Hall building	01

4	Host and Overhaul Facilities for Feed Water Pump Capacity: 2.48 ton Drg No.70002/K/29178	Near HRSG 06	01
5	Overhead Crane (Electrical General Drawing) Drg No.70002/K/87369		
6	Overhead Crane for Pump House Capacity: 10ton	C.W Pump building	01
7	Overhead Crane for CEM Machine (Manual + Electric) Capacity : 20ton Make: UNELEC 45 ORLEANS	CEM Building	01
8	Workshop Mechanical Overhead Crane (Manual Operated) Capacity: 10ton Make: HERBERT MORRIS LTD ENGLAND	Workshop building	01
9	Diesel Generator Overhead Crane Capacity: 5ton Make China	Diesel Generator Room	01
10	Firefighting Engine Overhead Crane Capacity: 5ton	Firefightin g Pump House	01
11	Mobile Crane Make: NELLEN HOLLAND	b/W GT-4 , GT-5	01

11. CHEMICAL LABORATORY INVENTORY AT GTPS KOTRI

S#	Description of Inventory	Quantity
1	Conductivity Meter	3
2	Flow meter	1
3	Turbidity meter	1
4	Sodium meter	1
5	PH meter (Anion)	2
6	PH meter (Mix Bed)	2
7	Pressure Guage (Shinghai China)	20
8	Conductivity Meter (Anion & Mix bed exchanger)	4
9	Orsat appartus	1
10	PH meter general labortary	2
11	Oil Sample check meter	1
12	Weight machine calorimeter	2
13	Control visco meter	1
14	Spectro Meter photometer	2
15	Oxigen meter	1
16	Combustable gas ditector	1

17	Rotating visco meter	1
18	Pressure Guage at Hydrogen plant make: (Shinghai China)	10
19	Pressure Guage at Dosing Room make :(Shinghai China)	3
20	Pressure Guage on Motors make:(Shinghai China)	13
21	Flow meter pump room	2
22	Glass wave oven	1

09. WORKSHOP INVENTORY AT GTPS KOTRI

S#	Description of Inventory	Quantity
1	Drilling Machine , Serial No.4207 Make Millat Industrial Com.,Ltd Lahore	2
2	Lathe machine	2
3	Shaper machine	1