

Packing list

Note: The packing list is based on Engineering Design, however shipment shall be as per actual dimensions. The cargo volume / Gross Weight of the heavy Lift cargo may vary by +/- 20% However, financial implications, if any, shall be as per Section VII, note 5. (Conversion factor Ocean freight:-1CBM=1 MT(freight ton))

Tentative drawing of heavy lift is enclosed separately.

Unit HWR

Sno	Description of Package	No of Pkgs	Length in MM	Width in MM	Height in MM	Gross weight in MT	Vol. in M3	FRT
Shop Supply Packages Details for Unit 1								
Turbine & Its Auxiliaries								
1	Steam blowing and Hydraulic test device for HP valve	1	3000	2000	1500	2.29	9.00	9.000
2	Steam bloing device for Overload valve for unit -1	1	1200	600	500	0.11	0.36	0.360
3	Steam blowing and Hydraulic test device for IP valve for unit -1	1	4200	1700	1000	2.80	7.14	7.140
4	Tools for governing system for unit -1	1	4200	3000	2000	0.62	25.20	25.200
5	Wire ropes for HP, IP & over load valve for unit -1	1	3000	2000	1000	0.85	6.00	6.000
6	Assembly device for HP valve for unit -1	1	4200	4000	1000	5.55	16.80	16.800
7	Assembly device for over load valve for unit -1	1	1300	700	1000	0.64	0.91	0.910
8	Assembly device for IP valve for unit -1	1	5000	1400	500	2.75	3.50	3.500
9	Suspension of LPBP valve for unit -1	1	3600	800	600	1.19	1.73	1.728
10	Suspension of LPBP valve for unit -1	1	3600	800	600	1.19	1.73	1.728
11	Steam Strainer for MS valves	1	1600	700	700	0.35	0.78	0.784
12	Steam Strainer for Interceptor valves	1	2800	1300	1100	1.43	4.00	4.004
13	Rating,Collaboration And Company's Monogram	1	500	500	500	0.08	0.13	0.125
14	Arrange.Of Embed(Anchor Point)	1	1600	1650	800	1.26	2.11	2.112
15	Arrange.Of Embed(Anchor Point)	1	2650	700	750	1.28	1.39	1.391
16	Arrange.Of Embed(Anchor Point)	1	1650	950	720	1.62	1.13	1.620
17	Arrange.Of Embed(Anchor Point) Ancher Box Type-A	1	1720	920	720	0.96	1.14	1.139
18	Arrange.Of Embed(Anchor Point)	1	1720	920	720	0.96	1.14	1.139
19	Arrange.Of Embed(Anchor Point)	1	1720	1250	700	1.17	1.51	1.505
20	Arrange.Of Embed(Anchor Point) Embed.For Lpc Guide Bolt	1	1300	1100	1230	1.02	1.76	1.759
21	Arrange.Of Embed(Anchor Point) Embed.For Lpc Guide Bolt	1	1300	1100	1230	0.92	1.76	1.759
22	Arrange.Of Embed(Anchor Point) Loose Items	1	1000	800	500	1.34	0.40	1.340
23	Arrange.Of Embed(Anchor Point) Anchor Rods/Nuts (L=3000)	1	3300	700	700	1.01	1.62	1.617
24	Arrange.Of Embed(Anchor Point)	1	2800	800	600	3.08	1.34	3.080
25	MOUNT. FRAME FOR BEARING SHELL	1	1000	750	750	0.35	0.56	0.563
26	ALIGNMENT SHAFT FOR IP TURBINE	1	4050	600	900	1.35	2.19	2.187
27	Support For Esv And Ivcv & Arrangement Of Endoscope Holes	1	1800	750	750	0.65	1.01	1.013
28	TURNING-OVER DEVICE FOR HP-Casing & Support	1	3800	250	130	15.00	0.12	15.000
29	ASSLY. FIXTURE FOR HP TURBINE 1	1	2300	210	900	5.00	0.43	5.000
30	ASSLY. FIXTURE FOR HP TURBINE 2	1	3300	1800	1300	5.00	7.72	7.722
31	LP-SHAFT SUPPORT	1	3750	1000	1000	4.70	3.75	4.700
32	LIST OF TOOLS	1	1700	800	400	1.30	0.54	1.300
33	I.P. SHAFT SUPPORT	1	1200	500	550	1.35	0.33	1.350
34	BREECH NUT HEATING & STRETCHING DEVICE	1	1700	900	700	1.30	1.07	1.300
35	LIFTING SLINGS FOR HP/IP/LP TURBINE	1	1700	1700	300	3.90	0.87	3.900
36	SUPPORT OF BREECH BLOCK & Mounting Device for Overload Valve	1	1500	750	750	0.65	0.84	0.844
37	CASING UPPER PART	1	8600	3000	3000	14.35	77.40	77.400
38	CASING UPPER PART	1	8600	3000	3000	14.35	77.40	77.400

39	CASING UPPER PART	1	8600	3000	3000	14.15	77.40	77.400
40	CASING UPPER PART	1	8600	3000	3000	14.15	77.40	77.400
41	RUPTURE DIAPHRAGM ASSEMBLY	1	2500	1300	1400	1.36	4.55	4.550
42	CASING SIDE WALL (LEFT)	1	6000	5500	200	8.00	6.60	8.000
43	CASING SIDE WALL (LEFT)	1	6000	5500	200	8.00	6.60	8.000
44	CASING SIDE WALL (RIGHT)	1	6000	5500	200	8.00	6.60	8.000
45	CASING SIDE WALL (RIGHT)	1	6000	5500	200	8.00	6.60	8.000
46	FRONT WALL LP-1(TS)	1	8560	5000	1000	17.10	42.80	42.800
47	FRONT WALL LP-2(TS)	1	8560	5000	1000	17.10	42.80	42.800
48	FRONT WALL LP-1(GS)	1	8560	5000	1000	17.10	42.80	42.800
49	FRONT WALL LP-2(GS)	1	8560	5000	1000	17.10	42.80	42.800
50	LP SHAFT SEAL CASING - TS	1	2000	1650	750	1.13	2.48	2.475
51	LP SHAFT SEAL CASING - TS	1	2000	1650	750	1.13	2.48	2.475
52	LP SHAFT SEAL CASING - GS	1	2000	1650	750	1.13	2.48	2.475
53	LP SHAFT SEAL CASING - GS	1	2000	1650	750	1.13	2.48	2.475
54	LP SHAFT SEAL COMPENSATOR - TS	1	2800	2800	800	1.50	6.27	6.272
55	LP SHAFT SEAL COMPENSATOR - TS	1	2800	2800	800	1.50	6.27	6.272
56	LP SHAFT SEAL COMPENSATOR - GS	1	2800	2800	800	1.50	6.27	6.272
57	LP SHAFT SEAL COMPENSATOR - GS	1	2800	2800	800	1.50	6.27	6.272
58	CASING FRAME SECTION	1	8200	4900	250	6.93	10.05	10.045
59	CASING FRAME SECTION	1	8200	4900	250	6.93	10.05	10.045
60	CASING FRAME SECTION	1	2100	1900	1900	3.53	7.58	7.581
61	CASING FRAME SECTION	1	2000	700	1100	5.22	1.54	5.222
62	AUXILIARIES OF LP TURBINE	1	1800	500	600	0.96	0.54	0.958
63	EXTRACTION PIPE SHEATHING A3	1	2500	900	700	0.37	1.58	1.575
64	EXTRACTION PIPE SHEATHING A3	1	2200	700	600	0.61	0.92	0.924
65	EXTRACTION PIPE SHEATHING A3	1	1800	900	600	0.83	0.97	0.972
66	EXTRACTION PIPE SHEATHING A3	1	1100	600	500	1.16	0.33	1.163
67	COMPENSATORS FOR GUIDE	1	5500	1800	800	2.26	7.92	7.920
68	LP CASING ASSEMBLY PARTS	1	4800	1000	500	1.37	2.40	2.400
69	LP CASING ASSEMBLY PARTS	1	1200	1200	600	1.55	0.86	1.550
70	LP CASING ASSEMBLY PARTS LP CASING ASSEMBLY PARTS	1	500	500	400	0.04	0.10	0.100
71	LP CASING ASSEMBLY PARTS	1	1300	1300	400	0.19	0.68	0.676
72	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
73	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
74	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
75	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
76	LP EXTRACTION A1	1	2900	1900	1100	1.24	6.06	6.061
77	LP EXTRACTION A1	1	2900	1900	1100	1.24	6.06	6.061
78	LP EXTRACTION A1	1	2000	1800	900	0.51	3.24	3.240
79	LP EXTRACTION A1	1	2000	1800	900	0.51	3.24	3.240
80	LP EXTRACTION A2	1	2900	1900	1100	1.24	6.06	6.061
81	LP EXTRACTION A2	1	2900	1900	1100	1.24	6.06	6.061
82	LP EXTRACTION A2	1	2800	1900	1100	1.14	5.85	5.852
83	LP EXTRACTION A2	1	2800	1900	1100	1.14	5.85	5.852
84	LP EXTRACTION A2	1	2000	1800	900	0.54	3.24	3.240
85	LP EXTRACTION A2	1	2000	1800	900	0.54	3.24	3.240
86	LP EXTRACTION A3	1	3250	1900	1100	1.51	6.79	6.793
87	LP EXTRACTION A3	1	3250	1900	1100	1.51	6.79	6.793
88	LP EXTRACTION A3	1	3500	1900	1500	1.45	9.98	9.975
89	LP EXTRACTION A3	1	1600	800	700	0.63	0.90	0.896
90	LP EXTRACTION A3	1	4350	1100	1200	1.22	5.74	5.742
91	LP EXTRACTION A3	1	4350	1100	1200	1.22	5.74	5.742
92	EXTRACTION PIPE SHEATHING A3	1	2500	900	700	0.37	1.58	1.575
93	EXTRACTION PIPE SHEATHING A3	1	2200	700	600	0.61	0.92	0.924
94	EXTRACTION PIPE SHEATHING A3	1	1800	900	600	0.83	0.97	0.972
95	EXTRACTION PIPE SHEATHING A3	1	2500	600	500	0.43	0.75	0.750
96	Valve Block Assly (Shop Manufactured)	1	250	200	200	0.01	0.01	0.012

97	LEAKAGE OIL TANK	1	1000	1000	3000	0.52	3.00	3.000
98	WASTE OIL TANK	1	1000	1000	3000	0.52	3.00	3.000
99	COMPENSATOR	1	600	600	900	0.05	0.32	0.324
	Generator							
1	FOUNDATION ITEMS	1	5800	1120	520	0.86	3.38	3.378
2	DRY AIR BLOWER	1	1100	1000	700	0.08	0.77	0.770
3	SEAL OIL STORAGE TANK	1	5000	1800	1700	2.50	15.30	15.300
4	PW PUMP AND FILTER UNIT	1	4000	4000	3000	7.07	48.00	48.000
5	SINGLE FLOW S.O.U.-PART I WITHOUT DC SEAL OIL MOTOR	1	3910	2900	2800	5.30	31.75	31.749
6	SINGLE FLOW S.O.U. -PART II	1	2510	2500	3300	4.53	20.71	20.708
7	VERTICAL SEAL OIL DC MOTOR	1	500	500	1200	0.60	0.30	0.600
8	LIQUID DETECTOR RACK	1	2000	600	2000	0.66	2.40	2.400
9	GAS UNIT	1	1980	1640	2420	1.25	7.86	7.858
10	CO2 VAPOURISER	1	1520	840	840	0.25	1.07	1.073
11	H2 DISTRIBUTOR	1	2400	900	2400	0.33	5.18	5.184
12	CO2 DISTRIBUTOR	1	3000	900	2400	0.35	6.48	6.480
13	N2 DISTRIBUTOR	1	1400	1240	440	0.14	0.76	0.764
14	DRAIN OIL COLLECTOR	1	2000	550	550	0.14	0.61	0.605
15	RESINS RESINS	1	1200	600	600	0.10	0.43	0.432
16	TG SYSTEM INTEGRAL PIPING (VALVES)	1	2750	1400	1400	2.49	5.39	5.390
17	TG SYSTEM INTEGRAL PIPING (INSTRUMENTS)	1	1000	940	900	0.22	0.85	0.846
18	SLIP RING SHAFT ASSEMBLY	1	3400	1250	1070	3.54	4.55	4.548
19	AIR FILTERS & SEALING WALL	1	2200	1650	1000	0.34	3.63	3.630
20	ACCESSORIES OF SLIP RING SHAFT	1	3600	3500	600	1.76	7.56	7.560
21	BED PLATE,BEARING & BRUSHGEAR	1	3500	1755	1940	6.61	11.92	11.916
	Turbine- Generator C&I & Panels							
1	TEMP. & PRESSURE CONNECTIONS	1	1700	1275	750	0.75	1.63	1.626
2	IMPULSE PIPES (CARBON STEEL)	1	6900	3450	500	1.05	11.90	11.903
3	TEMP. INSTRUMENTS & SENSORS	1	2800	1120	400	0.22	1.25	1.254
4	LEVEL INSTRUMENTS & SENSORS	1	2800	1120	400	0.22	1.25	1.254
5	TRANSMITTERS & J.B.OF BEARINGS	1	500	150	200	0.12	0.02	0.122
6	IMPULSE PIPES (ALLOY STEEL AND SS)	1	6900	3450	500	0.58	11.90	11.903
7	IMPULSE PIPES	1	7000	2100	300	1.00	4.41	4.410
	Condenser							
1	HOTWELL - I (CONDENSER-1)	1	10400	2700	1450	8.18	40.72	40.716
2	HOTWELL - II (CONDENSER-2)	1	10400	2700	1450	7.95	40.72	40.716
3	FRONT END BOTTOM PLATE	1	7860	2175	1134	5.57	19.39	19.386
4	FRONT END BOTTOM PLATE	1	7860	2175	1134	5.57	19.39	19.386
5	REAR END BOTTOM PLATE	1	7860	1405	1262	3.97	13.94	13.937
6	REAR END BOTTOM PLATE	1	7860	1405	1262	3.97	13.94	13.937
7	MIDDLE BOTTOM PLATE-1	1	7860	3850	1029	8.17	31.14	31.139
8	MIDDLE BOTTOM PLATE-1	1	7860	3850	1029	8.17	31.14	31.139
9	MIDDLE BOTTOM PLATE-2	1	7860	3850	1063	8.53	32.17	32.167
10	MIDDLE BOTTOM PLATE-2	1	7860	3850	1063	8.53	32.17	32.167
11	MIDDLE BOTTOM PLATE-3	1	7860	3850	1096	8.47	33.17	33.166
12	MIDDLE BOTTOM PLATE-3	1	7860	3850	1096	8.47	33.17	33.166
13	BOTTOM PLATE (LOOSE ITEMS)	1	1000	400	350	0.28	0.14	0.275
14	BOTTOM PLATE (LOOSE ITEMS)	1	1000	400	350	0.28	0.14	0.275
15	LOOSE ITEMS (COND.SUPPORT)	1	2600	1900	500	1.76	2.47	2.470
16	LOOSE ITEMS (COND. SUPPORT)	1	3800	1900	500	3.15	3.61	3.610
17	LOOSE ITEMS(COND. SUPPORT)	1	1400	900	760	1.54	0.96	1.540
18	LOOSE ITEMS(COND SUPPORT)	1	1400	900	750	1.54	0.95	1.540
19	LOOSE ITEMS(COND SUPPORT)	1	1000	1000	700	3.95	0.70	3.946
20	EARTH QUAKE PROTECTION DEVICE	1	1000	1000	700	3.95	0.70	3.946
21	FRONT WATER BOX AND WATER CHAMBER(GEN.SIDE)	1	6886	3210	4030	27.38	89.08	89.079
22	FRONT WATER BOX AND WATER CHAMBER (GEN.SIDE)	1	6886	3210	4030	27.38	89.08	89.079
23	FRONT WATER BOX AND WATER CHAMBER (TUR.SIDE)	1	6886	3210	4030	27.38	89.08	89.079

24	FRONT WATER BOX AND WATER CHAMBER (TUR.SIDE)	1	6886	3210	4030	27.38	89.08	89.079
25	REAR WATER BOX AND WATER CHAMBER (GEN.SIDE)	1	6886	3210	4030	27.49	89.08	89.079
26	REAR WATER BOX AND WATER CHAMBER (GEN.SIDE)	1	6886	3210	4030	32.17	89.08	89.079
27	REAR WATER BOX AND WATER CHAMBER (TUR.SIDE)	1	7044	4470	2890	27.94	91.00	90.997
28	REAR WATER BOX AND WATER CHAMBER (TUR.SIDE)	1	6886	3210	4030	27.49	89.08	89.079
29	SIDE WALL(TUR.END-PLATES) CONDENSER-1	1	6920	1170	40	2.30	0.32	2.301
30	SIDE WALL(TUR.END-PLATES) CONDENSER-2	1	6920	1170	40	2.30	0.32	2.301
31	SIDE WALL(TUR.END-PLATES) CONDENSER-1	1	6920	2480	100	13.48	1.72	13.475
32	SIDE WALL(TUR.END-PLATES) CONDENSER-2	1	6920	2480	100	13.48	1.72	13.475
33	SIDE WALL(TUR.END-LOOSE ITEMS) CONDENSER-1	1	5000	450	200	0.69	0.45	0.690
34	SIDE WALL(TUR.END-LOOSE ITEMS) CONDENSER-2	1	5000	450	200	0.69	0.45	0.690
35	SIDE WALL(GEN.END-PLATES) CONDENSER-1	1	6920	1170	40	2.30	0.32	2.301
36	SIDE WALL(GEN.END-PLATES) CONDENSER-2	1	6920	1170	40	2.30	0.32	2.301
37	SIDE WALL(GEN.END-PLATES) CONDENSER-1	1	6920	2480	100	13.48	1.72	13.475
38	SIDE WALL(GEN.END-PLATES) CONDENSER-2	1	6920	2480	100	13.48	1.72	13.475
39	SIDE WALL(GEN.END-LOOSE ITEMS) CONDENSER-1	1	5000	450	200	0.69	0.45	0.690
40	SIDE WALL(GEN.END-LOOSE ITEMS) CONDENSER-2	1	5000	450	200	0.69	0.45	0.690
41	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.73	1.25	5.725
42	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.73	1.25	5.725
43	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.73	1.25	5.725
44	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.73	1.25	5.725
45	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.70	1.25	5.699
46	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.70	1.25	5.699
47	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.70	1.25	5.699
48	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.70	1.25	5.699
49	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.44	1.25	5.438
50	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.44	1.25	5.438
51	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.44	1.25	5.438
52	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.44	1.25	5.438
53	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.44	1.25	5.438
54	SHELL INTERNAL STIFFENING RODS	1	3616	820	420	5.44	1.25	5.438
55	SHELL INTERNAL STIFFENING RODS	1	1000	700	500	1.47	0.35	1.470
56	SHELL INTERNAL STIFFENING RODS	1	1000	700	500	1.47	0.35	1.470
57	SHELL INTERNAL STIFFENING RODS	1	3700	825	500	1.00	1.53	1.526
58	SHELL INTERNAL STIFFENING RODS	1	3700	825	500	1.00	1.53	1.526
59	SHELL INTERNAL STIFFENING RODS	1	3700	825	500	1.00	1.53	1.526
60	SHELL INTERNAL STIFFENING RODS	1	3700	825	500	1.00	1.53	1.526
61	SHELL INTERNAL STIFFENING RODS	1	3700	825	500	0.99	1.53	1.526
62	SHELL INTERNAL STIFFENING RODS	1	3700	825	500	0.99	1.53	1.526
63	AIR EXTRACTION PIPING CONDENSER-1	1	7100	700	700	1.65	3.48	3.479
64	AIR EXTRACTION PIPING CONDENSER-2	1	7100	700	700	1.65	3.48	3.479
65	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
66	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
67	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
68	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
69	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
70	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
71	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
72	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
73	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
74	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
75	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
76	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
77	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862
78	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862
79	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862
80	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862
81	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862

82	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862
83	TUBE SUPPORT PLATE	1	5800	3820	400	4.66	8.86	8.862
84	TUBE SUPPORT PLATE	1	5800	3820	400	6.11	8.86	8.862
85	SHELL INTERNAL DETAILS	1	1400	800	800	3.54	0.90	3.540
86	SHELL INTERNAL DETAILS	1	1400	800	800	3.54	0.90	3.540
87	SHELL INTERNAL DETAILS	1	5600	900	600	4.92	3.02	4.915
88	SHELL INTERNAL DETAILS	1	5600	900	600	4.92	3.02	4.915
89	SHELL INTERNAL DETAILS	1	1300	1200	600	2.84	0.94	2.835
90	SHELL INTERNAL DETAILS	1	1300	1200	600	2.84	0.94	2.835
91	SHELL INTERNAL DETAILS	1	1000	800	800	2.25	0.64	2.250
92	SHELL INTERNAL DETAILS	1	1000	800	800	2.25	0.64	2.250
93	LOWER DOME WALL(TS) (CONDENSER-1)	1	10100	3800	350	11.32	13.43	13.433
94	LOWER DOME WALL(TS) (CONDENSER-2)	1	7249	1897	300	3.94	4.13	4.125
95	LOWER DOME WALL(TS) (CONDENSER-1)	1	10760	2220	50	6.40	1.19	6.396
96	LOWER DOME WALL(TS) (CONDENSER-2)	1	7315	1897	500	3.95	6.94	6.938
97	LOWER DOME WALL(TS) CONDENSER-1	1	2350	3700	300	1.56	2.61	2.609
98	LOWER DOME WALL(TS) CONDENSER-2	1	12730	2500	750	8.22	23.87	23.869
99	LOWER DOME WALL(TS) CONDENSER-1	1	2250	3686	50	1.59	0.41	1.591
100	LOWER DOME WALL(TS) CONDENSER-2	1	10295	1875	650	4.84	12.55	12.547
101	LOWER DOME WALL (TS) CONDENSER-1	1	8500	300	50	0.64	0.13	0.640
102	LOOSE ITEMS(LOWER DOME WALL TS)CONDENSER-2	1	8488	300	150	0.64	0.38	0.644
103	LOWER DOME WALL(TS) CONDENSER-2	1	530	250	320	0.28	0.04	0.282
104	LOWER DOME WALL (GS) CONDENSER-1	1	8475	300	150	0.65	0.38	0.645
105	LOWER DOME WALL (GS) CONDENSER-2	1	10000	3900	300	11.56	11.70	11.700
106	LOWER DOME WALL (GS) CONDENSER-1	1	10805	3000	700	7.65	22.69	22.691
107	LOWER DOME WALL (GS) CONDENSER-2	1	10760	2220	300	6.40	7.17	7.166
108	LOWER DOME WALL (GS) CONDENSER-1	1	12796	2700	600	7.53	20.73	20.730
109	LOWER DOME WALL (GS) CONDENSER-2	1	2350	3700	300	1.57	2.61	2.609
110	LOWER DOME WALL(GS) CONDENSER-1	1	7315	1826	300	3.80	4.01	4.007
111	LOWER DOME WALL(GS) CONDENSER-2	1	2315	3686	300	1.64	2.56	2.560
112	LOWER DOME WALL(GS) CONDENSER-1	1	7250	1826	600	3.81	7.94	7.943
113	LOWER DOME WALL (GS) CONDENSER-2	1	8492	300	50	0.64	0.13	0.640
114	LOWER DOME WALL (GEN SIDE) CONDENSER-1	1	2400	1250	750	1.28	2.25	2.250
115	LOWER DOME WALL (GEN SIDE) CONDENSER-2	1	550	500	500	0.02	0.14	0.138
116	LOOSE ITEM L D WALL (FWB) CONDENSER-1	1	7000	250	100	0.38	0.18	0.381
117	LOOSE ITEM L D WALL (FWB) CONDENSER-2	1	7000	250	100	0.38	0.18	0.381
118	LOWER DOME WALL(FWB) CONDENSER-1	1	7960	1574	700	4.43	8.77	8.770
119	LOWER DOME WALL (FWB) CONDENSER-2	1	7960	1574	700	3.94	8.77	8.770
120	LOWER DOME WALL (FWB) CONDENSER-1	1	7470	2300	650	3.64	11.17	11.168
121	LOWER DOME WALL (FWB) CONDENSER-2	1	7500	2500	700	4.39	13.13	13.125
122	LOWER DOME WALL(FWB) CONDENSER-1	1	6870	2500	300	5.12	5.15	5.153
123	LOWER DOME WALL (FWB) CONDENSER-2	1	6870	2500	300	5.12	5.15	5.153
124	LOWER DOME WALL (FWB) CONDENSER-1	1	6070	1400	500	1.75	4.25	4.249
125	LOWER DOME WALL (FWB) CONDENSER-2	1	6070	1300	500	1.76	3.95	3.946
126	LOOSE ITEMS LOWER DOME WALL (FWB) COND.-1	1	2500	1400	300	0.52	1.05	1.050
127	LOOSE ITEMS LOWER DOME WALL (FWB) COND.-2	1	2500	1400	300	0.51	1.05	1.050
128	LOWER DOME WALL(RWB) (CONDENSER-1)	1	7970	1780	700	3.60	9.93	9.931
129	LOWER DOME WALL(RWB) (CONDENSER-2)	1	7960	1780	300	3.72	4.25	4.251
130	LOWER DOME WALL(RWB) (CONDENSER-1)	1	7396	2800	1000	4.49	20.71	20.709
131	LOWER DOME WALL(RWB) (CONDENSER-2)	1	7396	2700	1000	4.47	19.97	19.969
132	LOWER DOME WALL(RWB) CONDENSER-1	1	6598	3200	700	4.78	14.78	14.780
133	LOWER DOME WALL(RWB) CONDENSER-2	1	6598	3200	700	4.77	14.78	14.780
134	LOWER DOME WALL(RWB) CONDENSER-1	1	5800	400	50	0.58	0.12	0.583
135	LOWER DOME WALL(RWB) CONDENSER-2	1	5864	400	50	0.58	0.12	0.583
136	LOWER DOME WALL(RWB) CONDENSER-1	1	7600	1300	300	1.83	2.96	2.964
137	LOWER DOME WALL(RWB) CONDENSER-2	1	7600	1500	300	2.02	3.42	3.420
138	LOOSE ITEMS LOWER DOME WALL (RWB) COND.-1	1	2100	2100	1800	0.88	7.94	7.938
139	LOOSE ITEMS LOWER DOME WALL (RWB) COND.-2	1	2100	2100	1800	0.88	7.94	7.938

140	DOME INTERNAL STIFFENING CONDENSER-1	1	5500	2300	1100	6.50	13.92	13.915
141	DOME INTERNAL STIFFENING CONDENSER-2	1	5500	2300	1100	6.50	13.92	13.915
142	DOME INTERNAL STIFFENING CONDENSER-1	1	2400	1000	600	4.46	1.44	4.458
143	DOME INTERNAL STIFFENING CONDENSER-2	1	5500	550	1050	3.40	3.18	3.400
144	DOME INTERNAL STIFFENING CONDENSER-1	1	2000	800	550	1.24	0.88	1.240
145	DOME INTERNAL STIFFENING CONDENSER-2	1	1300	600	400	0.39	0.31	0.390
146	DOME INTERNAL STIFFENING CONDENSER-1	1	5300	450	250	1.17	0.60	1.170
147	DOME INTERNAL STIFFENING CONDENSER-2	1	2300	1250	1000	3.15	2.88	3.150
148	DOME INTERNAL STIFFENING CONDENSER-1	1	5800	500	500	2.00	1.45	2.000
149	DOME INTERNAL STIFFENING CONDENSER-2	1	1000	500	300	0.45	0.15	0.450
150	DOME INTERNAL STIFFENING CONDENSER-1	1	2700	1600	1000	4.55	4.32	4.550
151	DOME INTERNAL STIFFENING CONDENSER-2	1	2700	1200	1200	5.63	3.89	5.630
152	LOOSE ITEMS DOME INTERNAL STIFFENING COND.-1	1	3150	1500	1600	2.85	7.56	7.560
153	LOOSE ITEMS DOME INTERNAL STIFFENING COND.-2	1	3200	1600	1200	4.40	6.14	6.144
154	LP HEATER SUPPORT ARRANGEMENT LOOSE ITEMS	1	1000	800	500	1.05	0.40	1.045
155	LP HEATER SUPPORT ARRANGEMENT LOOSE ITEMS	1	1000	800	500	1.05	0.40	1.045
156	LP HEATER SUPPORT ARRANGEMENT LOOSE ITEMS	1	7500	550	500	2.18	2.06	2.180
157	LP HEATER SUPPORT ARRANGEMENT LOOSE ITEMS	1	7500	550	500	2.18	2.06	2.180
158	UPPER DOME WALL (TURBINE SIDE) CONDENSER-1	1	5755	710	300	1.57	1.23	1.570
159	UPPER DOME WALL (TURBINE SIDE) CONDENSER-2	1	8232	710	300	2.22	1.75	2.220
160	UPPER DOME WALL(GEN SIDE) CONDENSER-1	1	5755	710	300	1.57	1.23	1.570
161	UPPER DOME WALL(GEN SIDE) CONDENSER-2	1	8232	700	300	2.22	1.73	2.220
162	UPPER DOME WALL (FWB) CONDENSER-1	1	5755	700	300	1.57	1.21	1.570
163	UPPER DOME WALL (FWB) CONDENSER-2	1	5755	710	300	1.57	1.23	1.570
164	UPPER DOME WALL(RWB) CONDENSER-1	1	8232	710	300	2.22	1.75	2.220
165	UPPER DOME WALL(RWB) CONDENSER-2	1	8232	710	300	2.22	1.75	2.220
166	FRONT W/BOX HINGE ARRANGEMENT	1	2200	900	1100	6.55	2.18	6.546
167	FRONT W/BOX HINGE ARRANGEMENT	1	2200	900	1100	2.69	2.18	2.688
168	REAR W/BOX HINGE ARRANGEMENT	1	1500	800	800	3.15	0.96	3.148
169	REAR W/BOX HINGE ARRANGEMENT	1	1500	800	400	1.41	0.48	1.408
170	FRONT W/BOX HINGE ARRANGEMENT	1	1000	800	700	0.40	0.56	0.560
171	FRONT W/BOX HINGE ARRANGEMENT	1	1000	800	700	0.40	0.56	0.560
172	REAR W/BOX HINGE ARRANGEMENT	1	1000	800	700	0.40	0.56	0.560
173	REAR W/BOX HINGE ARRANGEMENT	1	1000	800	700	0.40	0.56	0.560
174	FRONT W/BOX HINGE ARRANGEMENT	1	2400	700	400	0.65	0.67	0.672
175	FRONT W/BOX HINGE ARRANGEMENT	1	2400	700	400	0.65	0.67	0.672
176	REAR W/BOX HINGE ARRANGEMENT	1	2400	700	400	0.65	0.67	0.672
177	REAR W/BOX HINGE ARRANGEMENT	1	2400	700	400	0.65	0.67	0.672
178	FRONT W/BOX HINGE ARRANGEMENT	1	1495	1140	400	0.89	0.68	0.890
179	FRONT W/BOX HINGE ARRANGEMENT	1	1495	1140	400	0.89	0.68	0.890
180	REAR W/BOX HINGE ARRANGEMENT	1	1495	1140	400	0.89	0.68	0.890
181	REAR W/BOX HINGE ARRANGEMENT	1	1495	1140	400	0.89	0.68	0.890
182	CONDENSER (LOOSE ITEMS)	1	1000	700	600	0.50	0.42	0.500
183	CONDENSER (LOOSE ITEMS)	1	1000	700	600	0.50	0.42	0.500
184	Cond. Loose Items (Rubber Cord For Both Condenser)	1	1000	700	500	0.12	0.35	0.350
185	Cond. Loose Items (Rubber Cord For Both Condenser)	1	1000	700	500	0.13	0.35	0.350
186	FASTENERS (CONDENSER)	1	1200	1100	850	2.40	1.12	2.400
187	FASTENERS (CONDENSER)	1	1200	1100	850	2.40	1.12	2.400
188	CONDENSER LOOSE ITEMS	1	4300	800	350	1.95	1.20	1.950
189	CONDENSER LOOSE ITEMS	1	500	500	150	0.08	0.04	0.077
190	Condenser Stand Pipe No.1 Loose Items For(For Both Cond)	1	3500	600	600	0.25	1.26	1.260
191	STAND PIPE NO.1 (CONDENSER 1&2)	1	3350	550	500	0.35	0.92	0.921
192	STAND PIPE NO.2 (CONDENSER 1&2)	1	3500	600	600	0.35	1.26	1.260
193	Condenser Stand Pipes No.2 Loose Items For(For Both Cond)	1	3500	600	600	0.25	1.26	1.260
194	CONDENSER INSTRUMENTATION	1	1550	600	600	0.10	0.56	0.558
195	CONDENSER INSTRUMENTATION	1	1550	600	600	0.10	0.56	0.558

196	CONDENSER INSTRUMENTATION	1	1500	1300	700	0.73	1.37	1.365
197	CONDENSER INSTRUMENTATION	1	1500	1300	700	0.73	1.37	1.365
198	GLAND STEAM CONDENSER	1	1750	1700	1700	1.61	5.06	5.058
199	LOOSE ITEMS OF GSC	1	700	300	200	0.06	0.04	0.060
200	LOOSE ITEMS OF GSC (FRAGILE)	1	600	500	350	0.04	0.11	0.105
201	LP HEATER NO.1	1	17100	2200	2000	31.50	75.24	75.240
202	LP HEATER NO.2	1	17100	2200	2000	31.50	75.24	75.240
203	LP HEATER-1 STAND PIPE	1	2200	350	350	0.15	0.27	0.270
204	LP HEATER-2 STAND PIPE	1	2200	350	350	0.15	0.27	0.270
205	LP HEATER-1 LOOSE ITEMS	1	500	400	400	0.14	0.08	0.135
206	LP HEATER-2 LOOSE ITEMS	1	500	400	400	0.14	0.08	0.135
207	LP HEATER-1INSTRUMENTATION (FRAGILE)	1	9500	400	400	0.08	1.52	1.520
208	LP HEATER-2 INSTRUMENTATION (FRAGILE)	1	9500	400	400	0.08	1.52	1.520
209	LP HEATER-1 INSTRUMENTATION (NON FRAGILE)	1	2100	500	400	0.17	0.42	0.420
210	LP HEATER-2 INSTRUMENTATION (NON FRAGILE)	1	2100	500	400	0.17	0.42	0.420
211	TROLLEY FOR LP HEATER-1	1	1350	800	200	0.66	0.22	0.664
212	TROLLEY FOR LP HEATER-2	1	1350	800	200	0.66	0.22	0.664
213	HYDROGEN COOLER	1	5200	1270	1300	4.56	8.59	8.585
214	HYDROGEN COOLER	1	5200	1270	1300	4.56	8.59	8.585
215	LOOSE ITEMS (HYDROGEN COOLER)	1	1270	1150	600	0.90	0.88	0.900
216	EXCITER AIR COOLER	1	3450	900	760	1.57	2.36	2.360
217	EXCITER AIR COOLER	1	3450	900	760	1.57	2.36	2.360
BOI Package Details for Unit-1								
1	BUTTERFLY VALVES	1	625	625	375	0.13	0.15	0.146
2	NRV WITH ALUMINIUM FLAP	1	318	280	150	0.02	0.01	0.023
3	OIL PURIFICATION UNIT	1	2250	1500	1760	1.80	5.94	5.940
4	SPRAY NOZZLES	13	220	220	110	0.003	0.01	0.069
5	DIRT CATCHERS	1	500	450	375	0.06	0.08	0.084
6	DAMPER(box1)	1	920	920	920	0.21	0.78	0.779
	DAMPER (box2)	1	920	920	920	0.19	0.78	0.779
7	VARIABLE LOAD SPRING CAGES	18	1200	1000	500	2.00	0.60	36.000
		18	800	500	400	2.10	0.16	37.800
8	THERMAL INSULATION OF TURBINE	1				20.00		20.000
9	THERMAL INSULATION OF TIP	25	3000	2500	2500	8.00	18.75	468.750
10	TURBINE OIL Drums	276	810	760	490	0.20	0.30	83.254
11	DRY AIR PRESERVATION SYSTEM	1	2700	2100	2500	0.75	14.18	14.175
12	OIL PURIFICATION SYSTEM (CENTRE)	1	2250	1500	1760	1.80	5.94	5.940
13	GROUP CABLES	1	1320	710	560	1.26	0.52	1.260
		1	1070	560	410	0.44	0.25	0.440
		1	760	560	360	0.18	0.15	0.180
		1	970	560	360	0.49	0.20	0.490
		1	860	560	360	0.26	0.17	0.260
		1	810	560	360	0.22	0.16	0.220
		1	1120	560	410	0.61	0.26	0.610
		1	1070	560	410	0.49	0.25	0.490
		1	1020	560	410	0.40	0.23	0.400
14	TURBINE INTEGRAL PIPING	1	9200	2500	2700	13.00	62.10	62.100
15	H & S FOR TURBINE INTEGRAL PIPING	1	6200	1000	1000	21.00	18.60	21.000
		1	6200	1000	1000	10.00	12.40	12.400
		1	900	600	600	0.50	0.32	0.500
16	CALIBRATED FLOW NOZZLE ASSLY.	1	6800	1500	1000	3.27	10.20	10.200
		1	6800	1500	1000	3.27	10.20	10.200
17	ANGLE DRAIN VALVE (Pneumatic)	1	2000	1500	1500	6.00	90.00	90.000
18	CONTROL FLUID (FRF) Drums	13	810	760	490	0.26	0.30	3.921
19	LP BYPASS STOP & CONTROL VALVE	1	3300	1700	1800	1.70	10.10	10.098
		1	1000	900	700	0.11	0.63	0.630
		1	1200	800	800	0.16	0.77	0.768
		1	1500	1100	1100	0.90	1.82	1.815

		1	1500	1100	1100	0.60	1.82	1.815
		1	1000	900	700	0.15	0.63	0.630
		1	1200	1200	900	0.20	1.30	1.296
		1	1200	800	800	0.23	0.77	0.768
		1	2400	1400	1700	1.46	5.71	5.712
		1	2400	1400	1700	1.46	5.71	5.712
		1	1200	1200	900	0.89	1.30	1.296
		1	3900	2600	2500	10.00	25.35	25.350
		1	3900	2600	2500	10.00	25.35	25.350
		1	2500	900	1100	0.72	2.48	2.475
		1	2500	900	1100	0.72	2.48	2.475
20	Steam Trap	1	625	600	750	0.25	0.28	0.281
21	Gear Pump (Lub. Oil Recirculate)	1	700	700	500	0.07	0.25	0.245
22	Power Cables For 24 V Solenoid	1	810	560	360	0.40	0.16	0.400
		1	860	560	360	0.42	0.17	0.420
23	Level Instruments For Oil System	1	1730	250	250	0.08	0.11	0.108
24	Level Indicators For Oil Tanks	1	1960	230	230	0.04	0.10	0.104
		1	1960	230	230	0.04	0.10	0.104
25	Vacuum Breaker Valve With Pneu	1	1200	700	900	0.19	0.76	0.756
26	HP RELIEF VALVE	1	1950	1320	1300	0.84	3.35	3.346
27	Oil Module (Cooler Module)	1	3500	2700	7200	20.00	68.04	68.040
	Oil Module (Tank Module)	1	10000	3500	5000	25.00	175.00	175.000
28	Oil Throttle Valves	8	500	400	450	0.07	0.09	0.720
		8	500	400	450	0.07	0.09	0.720
		8	500	400	425	0.07	0.09	0.680
		8	450	375	400	0.05	0.07	0.540
29	Seal Steam Control Valve With	1	1500	700	600	0.40	0.63	0.630
30	Leak Steam Control Valve With	1	3000	1800	1100	2.40	5.94	5.940
31	Turbine Instrument Racks	10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.23	5.14	51.447
		10	2290	940	2390	0.23	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.23	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	810	610	410	0.15	0.20	2.026
		10	810	610	410	0.15	0.20	2.026
		10	300	300	250	0.01	0.02	0.225
		10	300	300	250	0.01	0.02	0.225
32	PNEUMATIC GLOBE VALVE	1	500	400	300	0.03	0.06	0.060
33	HYDRAULIC POWER SUPPLY UNIT FOR TURBINE VALVES	1	3200	2800	3200	7.50	28.67	28.672
34	BOROSCOPIC VIDEO IMAGE KIT	1	230	110	150	0.01	0.00	0.013
35	PRESSURE TRANSMITTERS FOR STEAM TURBINE	1	1000	500	500	0.57	0.25	0.566
36	PRESSURE GAUGES FOR TG SET	1	400	200	200	0.07	0.02	0.070
37	Empty H2 Cylinder	128				0.06	8.05	1030.833
38	Empty CO2 Cylinder	44				0.06	2.77	121.807
39	Empty N2 Cylinder	12				0.06	0.76	9.060
40	Vapour Exhauster	2	500	470	500	0.08	0.12	0.235
41	Refrigeration Gas Dryer	2	1000	800	1400	1.00	1.12	2.240
42	Slip Ring Cover (Complete With Fabrication & Lining)	1	4500	3500	4000	5.00	63.00	63.000
43	Primary Water Cooler (Plate Type)	2	500	1700	1700	1.00	1.45	2.890
44	Hydraulic Unit Assembly	1	584	355.6	254	0.59	0.26	0.590
		1	736.6	457.2	355.6	0.59	0.24	0.590
		1	584	584	406.4	0.59	0.14	0.590
45	Generator Integral Piping	1				19.30		19.299

46	HYDROGEN COOLERS PIPING	1				7.17		7.171
47	CONDENSOR AIR EVACUATION PACKA	4	6300	2500	3000	8.00	47.25	189.000
48	AIR EXHAUSTER WITH MOTOR	2	1100	1000	700	0.20	0.77	1.540
49	MULTI BALL BEARING SUPPORT FOR	2	400	400	210	1.49	0.03	2.976
50	SEAMLESS TITANIUM TUBES (FOR C	2	13700	1200	500	133.90	8.22	267.800
51	MOISTURE MEASURING EQUIPMENT	1	920	920	460	0.08	0.39	0.389
		1	200	260	360		0.02	0.019
52	Motorised Temperature Control Valve With Actuator	1	2240	1400	1120	1.96	3.51	3.512
53	H2 GAS ANALYSER CABINET	2	890	860	2310	0.27	3.54	7.072
		2	740	710	560	0.05	0.59	1.177
		2	660	300	710	0.02	0.28	0.562
		2	610	560	410	0.04	0.28	0.560
		2	150	150	970	0.03	0.04	0.087
		2	150	150	970	0.03	0.04	0.087
		2	150	150	970	0.27	0.02	0.542
54	STARTING RESISTOR FOR DC S.O MOTOR	1	610	610	700	0.07	0.26	0.260
55	Grounding Brush Monitor	1	400	150	400	0.02	0.02	0.024
		1	1500	1500	800	0.10	1.80	1.800
56	PW Temperature Control Valve	1	1730	970	1020	0.52	1.71	1.712
57	DC Starters & Instrumentation	1	1050	850	2300	0.95	2.05	2.053
		1	850	850	2300	0.70	1.66	1.662
		1	850	850	2300	0.70	1.66	1.662
		1	850	850	2300	0.65	1.66	1.662
Shop Supply Packages Details (for Unit 2)								0.000
	Turbine & Its Auxiliaries							
1	Spares of blow out device for unit - 2	1	1300	1300	200	0.08	0.34	0.338
2	ESV & CV casing with valves for unit - 2	1	4700	4700	2700	33.10	59.64	59.643
3	Mounting support for MS valve for unit - 2	1	1200	800	700	1.10	0.67	1.100
4	Mounting support for MS valve for unit - 2	1	1200	800	700	1.10	0.67	1.100
5	ESV & CV casing with valves for unit - 2	1	4700	4700	2700	33.10	59.64	59.643
6	Over load valve casing with valve for unit - 2	1	3000	2000	1400	3.40	8.40	8.400
7	Suspension of Overload valve for unit - 2	1	2800	3000	1000	1.20	8.40	8.400
8	IV & CV casing with valves for unit - 2	1	6200	5700	3600	52.00	127.22	127.224
9	Parts IV&CV casing for unit - 2	1	1800	1000	200	0.14	0.36	0.360
10	Mounting support for HRH valve for unit - 2	1	2500	1500	700	2.60	2.63	2.625
11	Mounting support for HRH valve for unit - 2	1	2500	1500	700	2.60	2.63	2.625
12	IV & CV casing with valves for unit - 2	1	6200	5700	3600	52.00	127.22	127.224
13	Parts of IV&CV Casing for unit - 2	1	1800	1000	200	0.14	0.36	0.360
14	Suspension of LPBP valve for unit - 2	1	3600	800	600	1.19	1.73	1.728
15	Suspension of LPBP valve for unit - 2	1	3600	800	600	1.19	1.73	1.728
16	Steam Strainer for MS valves	1	1600	700	700	0.35	0.78	0.784
17	Steam Strainer for Interceptor valves	1	2800	1300	1100	1.43	4.00	4.004
18	HP TURBINE	1	7300	4300	4000	128.41	125.56	128.412
19	HP Inlet Assembly	1	1000	1000	500	0.75	0.50	0.750
20	HP Turbine Parts	1	500	500	500	0.07	0.13	0.125
21	IP ROTOR	1	6090	1880	1700	29.31	19.46	29.314
22	IP OUTER CASING (U/H)	1	6040	4320	2200	30.05	57.40	57.404
23	IP OUTER CASING (L/H)	1	5300	5300	2200	39.22	61.80	61.798
24	IP INNER CASING (U/H)	1	3600	3300	1650	26.00	19.60	26.000
25	IP INNER CASING(L/H)	1	3600	3300	1650	30.00	19.60	30.000
26	SUPPORTING ARMS-IP OUTER CASING	1	1560	1335	1330	3.07	2.77	3.065
27	IP SHAFT SEALING	1	1400	1200	900	0.70	1.51	1.512
28	IP TURBINE (PARTS)	1	3000	2500	1600	8.65	12.00	12.000
29	I.P. TURBINE PARTS	1	1000	1000	750	0.48	0.75	0.750
30	Components Of Cop Assembly	1	3000	3000	2400	3.60	21.60	21.600
31	Components Of Cop Assembly	1	3700	3000	2000	3.69	22.20	22.200
32	Components Of Cop Assembly	1	3100	3100	1100	5.40	10.57	10.571

33	Components Of Cop Assembly	1	2100	2200	2200	2.40	10.16	10.164
34	Components Of Cop Assembly	1	5000	3300	3000	12.45	49.50	49.500
35	Components Of Cop Assembly	1	2270	2270	1730	3.10	8.91	8.915
36	Components Of Cop Assembly	1	6200	1000	300	1.90	1.86	1.900
37	Components Of Cop Assembly (Parts)	1	2200	2200	1000	1.40	4.84	4.840
38	Rating,Collaboration And Company's Monogram	1	500	500	500	0.08	0.13	0.125
39	Arrange.Of Embed(Anchor Point)	1	1600	1650	800	1.26	2.11	2.112
40	Arrange.Of Embed(Anchor Point)	1	2650	700	750	1.28	1.39	1.391
41	Arrange.Of Embed(Anchor Point)	1	1650	950	720	1.62	1.13	1.620
42	Arrange.Of Embed(Anchor Point) Ancher Box Type-A	1	1720	920	720	0.96	1.14	1.139
43	Arrange.Of Embed(Anchor Point)	1	1720	920	720	0.96	1.14	1.139
44	Arrange.Of Embed(Anchor Point)	1	1720	1250	720	1.17	1.55	1.548
45	Arrange.Of Embed(Anchor Point) Embed.For Lpc Guide Bolt	1	1300	1100	1230	1.02	1.76	1.759
46	Arrange.Of Embed(Anchor Point) Embed.For Lpc Guide Bolt	1	1300	1100	1230	0.92	1.76	1.759
47	Arrange.Of Embed(Anchor Point) Loose Items	1	1000	800	500	1.34	0.40	1.340
48	Arrange.OF EMBED(Anchor Point) Anchor Rods/Nuts (L=3000)	1	3300	700	700	1.01	1.62	1.617
49	Arrange.Of Embed(Anchor Point)	1	2800	800	600	3.08	1.34	3.080
50	Base Plate Assembly	1	2500	2000	1500	1.69	7.50	7.500
51	Base Plate Assembly	1	600	500	500	0.41	0.15	0.410
52	Base Plate Assembly	1	2800	1600	600	5.10	2.69	5.100
53	HP/IP BEARING PEDESTAL	1	4500	1800	2100	11.40	17.01	17.010
54	HP/IP BEARING PEDESTAL (PARTS)	1	1000	600	600	0.35	0.36	0.360
55	IP-LP BEARING PEDESTAL ASSLY IP-LP Bearing Pedestal Assly	1	7500	2000	2400	22.20	36.00	36.000
56	BEARING PEDESTAL (PARTS)	1	2200	1700	600	1.40	2.24	2.244
57	LP/GEN. PEDESTAL ASSEMBLY	1	7500	2000	2400	21.60	36.00	36.000
58	BEARING PEDESTAL (PARTS)	1	2200	1500	500	0.86	1.65	1.650
59	LP/LP PEDESTAL ASSEMBLY	1	6250	2000	2100	20.73	26.25	26.250
60	Bearing Pedestal (Parts)	1	1500	1000	500	0.94	0.75	0.938
61	Front Bearing Pedestal	1	3400	1400	1600	12.29	7.62	12.286
62	Hydraulic Turning Motor	1	1300	800	1500	0.65	1.56	1.560
63	Front Bearing Pedestals(Parts)	1	1000	600	600	0.35	0.36	0.360
64	Casing Upper Part	1	8600	3000	3000	14.35	77.40	77.400
65	Casing Upper Part	1	8600	3000	3000	14.35	77.40	77.400
66	Casing Upper Part	1	8600	3000	3000	14.15	77.40	77.400
67	Casing Upper Part	1	8600	3000	3000	14.15	77.40	77.400
68	RUPTURE DIAPHRAGM ASSEMBLY	1	2500	1300	1400	1.36	4.55	4.550
69	CASING SIDE WALL (LEFT)	1	6000	5500	200	8.00	6.60	8.000
70	CASING SIDE WALL (LEFT)	1	6000	5500	200	8.00	6.60	8.000
71	CASING SIDE WALL (RIGHT)	1	6000	5500	200	8.00	6.60	8.000
72	CASING SIDE WALL (RIGHT)	1	6000	5500	200	8.00	6.60	8.000
73	FRONT WALL LP-1(TS)	1	8560	5000	1000	17.10	42.80	42.800
74	FRONT WALL LP-2(TS)	1	8560	5000	1000	17.10	42.80	42.800
75	FRONT WALL LP-1(GS)	1	8560	5000	1000	17.10	42.80	42.800
76	FRONT WALL LP-2(GS)	1	8560	5000	1000	17.10	42.80	42.800
77	LP SHAFT SEAL CASING - TS	1	2000	1650	750	1.13	2.48	2.475
78	LP SHAFT SEAL CASING - TS	1	2000	1650	750	1.13	2.48	2.475
79	LP SHAFT SEAL CASING - GS	1	2000	1650	750	1.13	2.48	2.475
80	LP SHAFT SEAL CASING - GS	1	2000	1650	750	1.13	2.48	2.475
81	LP SHAFT SEAL COMPENSATOR - TS	1	2800	2800	800	1.50	6.27	6.272
82	LP SHAFT SEAL COMPENSATOR - TS	1	2800	2800	800	1.50	6.27	6.272
83	LP SHAFT SEAL COMPENSATOR - GS	1	2800	2800	800	1.50	6.27	6.272
84	LP SHAFT SEAL COMPENSATOR - GS	1	2800	2800	800	1.50	6.27	6.272
85	CASING FRAME SECTION	1	8200	4900	250	6.93	10.05	10.045
86	CASING FRAME SECTION	1	8200	4900	250	6.93	10.05	10.045

87	CASING FRAME SECTION	1	2100	1900	1900	3.53	7.58	7.581
88	CASING FRAME SECTION	1	2100	700	1100	5.22	1.62	5.222
89	HP/IP BEARING PEDESTAL	1	4300	1800	2100	10.48	16.25	16.254
90	HP/IP BEARING PEDESTAL (PARTS)	1	1000	600	600	0.35	0.36	0.360
91	AUXILIARIES OF LP TURBINE	1	1800	500	600	0.96	0.54	0.958
92	EXTRACTION PIPE SHEATHING A3	1	2500	900	700	0.37	1.58	1.575
93	EXTRACTION PIPE SHEATHING A3	1	2200	700	600	0.61	0.92	0.924
94	EXTRACTION PIPE SHEATHING A3	1	1800	900	600	0.83	0.97	0.972
95	EXTRACTION PIPE SHEATHING A3	1	1100	600	500	1.16	0.33	1.163
96	COMPENSATORS FOR GUIDE	1	5500	1800	800	2.26	7.92	7.920
97	LP INNER CASING (U/H)	1	5510	3957	3235	25.78	70.53	70.533
98	LP INNER CASING (U/H)	1	5510	3957	3235	25.78	70.53	70.533
99	LP INNER CASING (L/H)	1	5510	5482	3280	54.29	99.08	99.075
100	LP INNER CASING (L/H)	1	5510	5482	3280	53.60	99.08	99.075
101	LP CASING ASSEMBLY PARTS	1	4800	1000	500	1.37	2.40	2.400
102	LP CASING ASSEMBLY PARTS	1	1200	1200	600	1.55	0.86	1.550
103	LP Casing Assembly Parts Lp Casing Assembly Parts	1	500	500	400	0.04	0.10	0.100
104	LP CASING ASSEMBLY PARTS	1	1300	1300	400	0.19	0.68	0.676
105	LP INNER CASING ASSEMBLY	1	3300	1850	300	1.84	1.83	1.836
106	LP INNER CASING ASSEMBLY PARTS	1	3350	1850	400	1.84	2.48	2.479
107	LP ROTOR - 1	1	8174	4500	4456	80.10	163.91	163.905
108	LP ROTOR - 2	1	8174	4500	4456	80.10	163.91	163.905
109	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
110	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
111	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
112	LP EXTRACTION A1	1	2800	1100	1100	0.65	3.39	3.388
113	LP EXTRACTION A1	1	2900	1900	1100	1.24	6.06	6.061
114	LP EXTRACTION A1	1	2900	1900	1100	1.24	6.06	6.061
115	LP EXTRACTION A1	1	2000	1800	900	0.51	3.24	3.240
116	LP EXTRACTION A1	1	2000	1800	900	0.51	3.24	3.240
117	LP EXTRACTION A2	1	2900	1900	1100	1.24	6.06	6.061
118	LP EXTRACTION A2	1	2900	1900	1100	1.24	6.06	6.061
119	LP EXTRACTION A2	1	2900	1900	1100	1.14	6.06	6.061
120	LP EXTRACTION A2	1	2800	1900	1100	1.14	5.85	5.852
121	LP EXTRACTION A2	1	2000	1800	900	0.54	3.24	3.240
122	LP EXTRACTION A2	1	2000	1800	900	0.54	3.24	3.240
123	LP EXTRACTION A3	1	3250	1900	1100	1.51	6.79	6.793
124	LP EXTRACTION A3	1	3250	1900	1100	1.51	6.79	6.793
125	LP EXTRACTION A3	1	3500	1900	1500	1.45	9.98	9.975
126	LP EXTRACTION A3	1	1600	800	700	0.63	0.90	0.896
127	LP EXTRACTION A3	1	4350	1100	1200	1.22	5.74	5.742
128	LP EXTRACTION A3	1	4350	1100	1200	1.22	5.74	5.742
129	Extraction Pipe Sheathing A3	1	2500	900	700	0.37	1.58	1.575
130	Extraction Pipe Sheathing A3	1	2200	700	600	0.61	0.92	0.924
131	Extraction Pipe Sheathing A3	1	1800	900	600	0.83	0.97	0.972
132	Extraction Pipe Sheathing A3	1	2500	600	500	0.43	0.75	0.750
133	Assembly Of Guide Blade Carriers 2L & 3L (U/H)- LPT 1	1	4200	2300	1000	4.43	9.66	9.660
134	Assembly Of Guide Blade Carriers 2R & 3R (U/H)- LPT 1	1	4200	2300	1000	4.43	9.66	9.660
135	Assembly Of Guide Blade Carriers 2L & 3L (U/H)- LPT 2	1	4200	2300	1000	4.43	9.66	9.660
136	Assembly Of Guide Blade Carriers 2R & 3R (U/H)- LPT 2	1	4200	2300	1000	4.43	9.66	9.660
137	Assembly Of Guide Blade Carriers 1L (U/H)- LPT 1	1	2920	1660	1265	5.64	6.13	6.132
138	Assembly Of Guide Blade Carriers 1R (U/H)- LPT 1	1	2920	1660	1265	5.64	6.13	6.132
139	Assembly Of Guide Blade Carriers 1L (U/H)- LPT 2	1	2920	1660	1265	5.64	6.13	6.132
140	Assembly Of Guide Blade Carriers 1R (U/H)- LPT 2	1	2920	1660	1265	5.64	6.13	6.132
141	Valve Block Assly (Shop Manufactured)	1	250	200	200	0.01	0.01	0.012
142	Leakage Oil Tank	1	1000	1000	3000	0.52	3.00	3.000
143	Waste Oil Tank	1	1000	1000	3000	0.52	3.00	3.000
144	Compensator	1	600	600	900	0.05	0.32	0.324

	Generator						0.00	
1	Foundation Plates	1	6400	1680	950	11.92	10.21	11.915
2	Foundation Bolts	1	2540	655	600	0.96	1.00	0.998
3	Foundation Items	1	5800	1120	520	2.17	3.38	3.378
4	Generator Stator	1	9860	4440	4260	326.00	186.50	326.000
5	Generator Rotor	1	14125	1790	1740	84.22	43.99	84.215
6	END SHIELD LOWER HALF (TE)	1	3800	1500	2240	9.88	12.77	12.768
7	END SHIELD UPPER HALF (TE)	1	3800	1500	2240	8.88	12.77	12.768
8	END SHIELD LOWER HALF (EE)	1	3800	1500	2240	9.93	12.77	12.768
9	END SHIELD UPPER HALF (EE)	1	3800	1500	2240	8.93	12.77	12.768
10	GENERATOR BEARING (EE & TE)	1	1180	1050	1170	1.91	1.45	1.906
11	Baffle Ring Carrier & Air Gap Seal Assy.	1	2035	1885	1200	1.32	4.60	4.603
12	Terminal Bushings	1	2200	1830	610	1.52	2.46	2.456
13	Terminal Bushing Box	1	3500	2600	1740	7.34	15.83	15.834
14	Shaft Seals (EE & TE) & Oil Catcher (Inner & Outer)	1	2140	1140	965	1.44	2.35	2.354
15	Baffle Ring Assy	1	2070	1870	1080	1.22	4.18	4.181
16	Generator Accessories	1	1500	1500	1000	0.82	2.25	2.250
17	Flexible Terminal Connections	1	1350	950	400	0.59	0.51	0.592
18	Generator Accessories	1	950	950	450	0.55	0.41	0.550
19	Generator Accessories	1	1000	1000	750	0.81	0.75	0.810
20	Generator Accessories	1	1700	1200	250	0.14	0.51	0.510
21	Primary Water Tank	1	10500	2400	1200	2.04	30.24	30.240
22	PW TANK PIPE LINES	1	4500	1800	500	0.83	4.05	4.050
23	PW TANK PIPE LINES	1	3000	600	500	0.68	0.90	0.900
24	PW TANK PIPE LINES - VORTEX FLOW METER	1	450	350	850	0.07	0.13	0.134
25	PLATFORM FOR PW TANK	1	5000	1200	600	1.19	3.60	3.600
26	Cooler Housing Frame	1	4290	4450	1428	21.50	27.26	27.261
27	Seal Rings	1	750	750	200	0.09	0.11	0.113
28	Connection Piece Assembly	1	1650	1100	450	0.86	0.82	0.858
29	Generator - Terminal Boxes	1	2000	1200	600	0.40	1.44	1.440
30	Dry Air Blower	1	1100	1000	700	0.08	0.77	0.770
31	Seal Oil Storage Tank	1	5000	1800	1700	2.50	15.30	15.300
32	Pw Pump And Filter Unit	1	4000	4000	3000	7.07	48.00	48.000
33	SINGLE FLOW S.O.U.-PART I	1	3910	3100	3200	5.30	38.79	38.787
34	SINGLE FLOW S.O.U. -PART II	1	2510	2500	3300	4.53	20.71	20.708
35	Seal Oil Dc Motor	1	500	500	1200	0.60	0.30	0.600
36	Liquid Detector Rack	1	2000	600	2000	0.66	2.40	2.400
37	Gas Unit	1	1980	1640	2420	1.21	7.86	7.858
38	CO2 VAPOURISER	1	1520	840	840	0.25	1.07	1.073
39	H2 DISTRIBUTOR	1	2400	900	2400	0.33	5.18	5.184
40	CO2 DISTRIBUTOR	1	3000	900	2400	0.35	6.48	6.480
41	N2 DISTRIBUTOR	1	1400	1240	440	0.14	0.76	0.764
42	DRAIN OIL COLLECTOR	1	2000	550	550	0.14	0.61	0.605
43	RESINS	1	1200	600	600	0.10	0.43	0.432
44	TG SYSTEM INTEGRAL PIPING (VALVES)	1	2750	1400	1400	2.49	5.39	5.390
45	TG SYSTEM INTEGRAL PIPING (INSTRUMENTS)	1	1000	940	900	0.22	0.85	0.846
46	CONSUMABLES	1	800	400	200	0.06	0.06	0.064
47	SLIP RING SHAFT ASSEMBLY	1	3400	1250	1070	3.54	4.55	4.548
48	AIR FILTERS & SEALING WALL	1	2200	1650	1000	0.34	3.63	3.630
49	ACCESSORIES OF SLIP RING SHAFT	1	3600	3500	600	1.76	7.56	7.560
50	BED PLATE,BEARING & BRUSHGEAR	1	3500	1755	1940	6.61	11.92	11.916
	Turbine- Generator C&I & Panels							0.000
1	TEMP. & PRESSURE CONNECTIONS	1	1700	1275	750	0.75	1.63	1.626
2	IMPULSE PIPES (CARBON STEEL)	1	6900	3450	500	1.05	11.90	11.903
3	TEMP. INSTRUMENTS & SENSORS	1	2800	1120	400	0.22	1.25	1.254
4	LEVEL INSTRUMENTS & SENSORS	1	2800	1120	400	0.22	1.25	1.254
5	TRANSMITTERS & J.B.OF BEARINGS	1	500	150	200	0.12	0.02	0.122
6	IMPULSE PIPES (ALLOY STEEL AND SS)	1	6900	3450	500	0.58	11.90	11.903

7	IMPULSE PIPES	1	7000	2100	300	1.00	4.41	4.410
	Condenser						0.00	0.000
1	HOTWELL - I (CONDENSER-1)	1	10400	2700	1450	8.18	40.72	40.716
2	HOTWELL - II (CONDENSER-2)	1	10400	2700	1450	7.95	40.72	40.716
3	Front End Bottom Plate	1	7860	2175	1134	5.57	19.39	19.386
4	Front End Bottom Plate	1	7860	2175	1134	5.57	19.39	19.386
5	Rear End Bottom Plate	1	7860	1405	1262	3.97	13.94	13.937
6	Rear End Bottom Plate	1	7860	1405	1262	3.97	13.94	13.937
7	Middle Bottom Plate-1	1	7860	3850	1029	8.17	31.14	31.139
8	Middle Bottom Plate-1	1	7860	3850	1029	8.17	31.14	31.139
9	Middle Bottom Plate-2	1	7860	3850	1063	8.53	32.17	32.167
10	Middle Bottom Plate-2	1	7860	3850	1063	8.53	32.17	32.167
11	Middle Bottom Plate-3	1	7860	3850	1096	8.47	33.17	33.166
12	Middle Bottom Plate-3	1	7860	3850	1096	8.47	33.17	33.166
13	Bottom Plate (Loose Items)	1	1000	400	350	0.28	0.14	0.275
14	Bottom Plate (Loose Items)	1	1000	400	350	0.28	0.14	0.275
15	Loose Items (Cond.Support)	1	260	1900	500	1.76	0.25	1.760
16	Loose Items (Cond. Support)	1	3800	1900	500	3.15	3.61	3.610
17	Loose Items(Cond. Support)	1	1400	900	760	1.54	0.96	1.540
18	Loose Items(Cond Support)	1	1400	900	750	1.54	0.95	1.540
19	Loose Items(Cond Support)	1	1000	1000	700	3.95	0.70	3.946
20	Earth Quake Protection Device	1	1000	1000	700	3.95	0.70	3.946
21	Front Water Box And Water Chamber(Gen.Side)	1	6886	3210	4030	27.38	89.08	89.079
22	Front Water Box And Water Chamber (Gen.Side)	1	6886	3210	4030	27.38	89.08	89.079
23	Front Water Box And Water Chamber (Tur.Side)	1	6886	3210	4030	27.38	89.08	89.079
24	Front Water Box And Water Chamber (Tur.Side)	1	6886	3210	4030	27.38	89.08	89.079
25	Rear Water Box And Water Chamber (Gen.Side)	1	6886	3210	4030	27.49	89.08	89.079
26	Rear Water Box And Water Chamber (Gen.Side)	1	6886	3210	4030	32.17	89.08	89.079
27	Rear Water Box And Water Chamber (Tur.Side)	1	7044	4470	2890	27.94	91.00	90.997
28	Rear Water Box And Water Chamber (Tur.Side)	1	6886	3210	4030	27.49	89.08	89.079
29	Side Wall (Tur. End-Plates) Condenser-1	1	6920	1170	40	2.30	0.32	2.301
30	Side Wall (Tur. End-Plates) Condenser-2	1	6920	1170	40	2.30	0.32	2.301
31	Side Wall (Tur. End-Plates) Condenser-1	1	6920	2480	100	13.48	1.72	13.475
32	Side Wall (Tur. End-Plates) Condenser-2	1	6920	2480	100	13.48	1.72	13.475
33	Side Wall (Tur. End-Loose Items) Condenser-1	1	5000	450	200	0.69	0.45	0.690
34	Side Wall (Tur. End-Loose Items) Condenser-2	1	5000	450	200	0.69	0.45	0.690
35	Side Wall (Gen. End-Plates) Condenser-1	1	6920	1170	40	2.30	0.32	2.301
36	Side Wall (Gen. End-Plates) Condenser-2	1	6920	1170	40	2.30	0.32	2.301
37	Side Wall (Gen. End-Plates) Condenser-1	1	6920	2480	100	13.48	1.72	13.475
38	Side Wall (Gen. End-Plates) Condenser-2	1	6920	2480	100	13.48	1.72	13.475
39	Side Wall (Gen. End-Loose Items) Condenser-1	1	5000	450	200	0.69	0.45	0.690
40	Side Wall (Gen. End-Loose Items) Condenser-2	1	5000	450	200	0.69	0.45	0.690
41	Shell Internal Stiffening Rods	1	3616	820	420	5.73	1.25	5.725
42	Shell Internal Stiffening Rods	1	3616	820	420	5.73	1.25	5.725
43	Shell Internal Stiffening Rods	1	3616	820	420	5.73	1.25	5.725
44	Shell Internal Stiffening Rods	1	3616	820	420	5.73	1.25	5.725
45	Shell Internal Stiffening Rods	1	3616	820	420	5.70	1.25	5.699
46	Shell Internal Stiffening Rods	1	3616	820	420	5.70	1.25	5.699
47	Shell Internal Stiffening Rods	1	3616	820	420	5.70	1.25	5.699
48	Shell Internal Stiffening Rods	1	3616	820	420	5.70	1.25	5.699
49	Shell Internal Stiffening Rods	1	3616	820	420	5.44	1.25	5.438
50	Shell Internal Stiffening Rods	1	3616	820	420	5.44	1.25	5.438
51	Shell Internal Stiffening Rods	1	3616	820	420	5.44	1.25	5.438
52	Shell Internal Stiffening Rods	1	3616	820	420	5.44	1.25	5.438
53	Shell Internal Stiffening Rods	1	3616	820	420	5.44	1.25	5.438
54	Shell Internal Stiffening Rods	1	3616	820	420	5.44	1.25	5.438
55	Shell Internal Stiffening Rods	1	1000	700	500	1.47	0.35	1.470
56	Shell Internal Stiffening Rods	1	1000	700	500	1.47	0.35	1.470

57	Shell Internal Stiffening Rods	1	3700	825	500	1.00	1.53	1.526
58	Shell Internal Stiffening Rods	1	3700	825	500	1.00	1.53	1.526
59	Shell Internal Stiffening Rods	1	3700	825	500	1.00	1.53	1.526
60	Shell Internal Stiffening Rods	1	3700	825	500	1.00	1.53	1.526
61	Shell Internal Stiffening Rods	1	3700	825	500	0.99	1.53	1.526
62	Shell Internal Stiffening Rods	1	3700	825	500	0.99	1.53	1.526
63	Air Extraction Piping Condenser-1	1	7100	700	700	1.65	3.48	3.479
64	Air Extraction Piping Condenser-2	1	7100	700	700	1.65	3.48	3.479
65	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
66	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
67	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
68	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
69	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
70	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
71	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
72	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
73	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
74	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
75	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
76	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
77	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
78	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
79	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
80	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
81	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
82	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
83	Tube Support Plate	1	5800	3820	400	4.66	8.86	8.862
84	Tube Support Plate	1	5800	3820	400	6.11	8.86	8.862
85	Shell Internal Details	1	1400	800	800	3.54	0.90	3.540
86	Shell Internal Details	1	1400	800	800	3.54	0.90	3.540
87	Shell Internal Details	1	5600	900	600	4.92	3.02	4.915
88	Shell Internal Details	1	5600	900	600	4.92	3.02	4.915
89	Shell Internal Details	1	1300	1200	600	2.84	0.94	2.835
90	Shell Internal Details	1	1300	1200	600	2.84	0.94	2.835
91	Shell Internal Details	1	1000	800	800	2.25	0.64	2.250
92	Shell Internal Details	1	1000	800	800	2.25	0.64	2.250
93	LOWER DOME WALL(TS) (CONDENSER-1)	1	10100	3800	350	11.32	13.43	13.433
94	LOWER DOME WALL(TS) (CONDENSER-2)	1	7249	1897	300	3.94	4.13	4.125
95	LOWER DOME WALL(TS) (CONDENSER-1)	1	10760	2220	50	6.40	1.19	6.396
96	LOWER DOME WALL(TS) (CONDENSER-2)	1	7315	1897	500	3.95	6.94	6.938
97	LOWER DOME WALL(TS) CONDENSER-1	1	2350	3700	300	1.56	2.61	2.609
98	LOWER DOME WALL(TS) CONDENSER-2	1	12730	2500	750	8.22	23.87	23.869
99	LOWER DOME WALL(TS) CONDENSER-1	1	2250	3686	50	1.59	0.41	1.591
100	LOWER DOME WALL(TS) CONDENSER-2	1	10295	1875	650	4.84	12.55	12.547
101	LOWER DOME WALL (TS) CONDENSER-1	1	8500	300	50	0.64	0.13	0.640
102	LOOSE ITEMS(LOWER DOME WALL TS)CONDENSER-2	1	8488	300	150	0.64	0.38	0.644
103	LOWER DOME WALL(TS) CONDENSER-2	1	530	250	320	0.28	0.04	0.282
104	LOWER DOME WALL (GS) CONDENSER-1	1	84750	300	150	0.65	3.81	3.814
105	LOWER DOME WALL (GS) CONDENSER-2	1	10000	3900	300	11.56	11.70	11.700
106	LOWER DOME WALL (GS) CONDENSER-1	1	10805	3000	700	7.65	22.69	22.691
107	LOWER DOME WALL (GS) CONDENSER-2	1	10760	2220	300	6.40	7.17	7.166
108	LOWER DOME WALL (GS) CONDENSER-1	1	12796	2700	600	7.53	20.73	20.730
109	LOWER DOME WALL (GS) CONDENSER-2	1	2350	3700	300	1.57	2.61	2.609
110	LOWER DOME WALL(GS) CONDENSER-1	1	7315	1826	300	3.80	4.01	4.007
111	LOWER DOME WALL(GS) CONDENSER-2	1	2315	3686	300	1.64	2.56	2.560
112	LOWER DOME WALL(GS) CONDENSER-1	1	7250	1826	600	3.81	7.94	7.943
113	LOWER DOME WALL (GS) CONDENSER-2	1	8492	300	50	0.64	0.13	0.640
114	LOWER DOME WALL (GEN SIDE) CONDENSER-1	1	2400	1250	750	1.28	2.25	2.250

115	LOWER DOME WALL (GEN SIDE) CONDENSER-2	1	550	500	500	0.02	0.14	0.138
116	LOOSE ITEM L D WALL (FWB) CONDENSER-1	1	7000	250	100	0.38	0.18	0.381
117	LOOSE ITEM L D WALL (FWB) CONDENSER-2	1	7000	250	100	0.38	0.18	0.381
118	LOWER DOME WALL(FWB) CONDENSER-1	1	7960	1574	700	4.43	8.77	8.770
119	LOWER DOME WALL (FWB) CONDENSER-2	1	7960	1574	700	3.94	8.77	8.770
120	LOWER DOME WALL (FWB) CONDENSER-1	1	7470	2300	650	3.64	11.17	11.168
121	LOWER DOME WALL (FWB) CONDENSER-2	1	7500	2500	700	4.39	13.13	13.125
122	LOWER DOME WALL(FWB) CONDENSER-1	1	6870	2500	300	5.12	5.15	5.153
123	LOWER DOME WALL (FWB) CONDENSER-2	1	6870	2500	300	5.12	5.15	5.153
124	LOWER DOME WALL (FWB) CONDENSER-1	1	6070	1400	500	1.75	4.25	4.249
125	LOWER DOME WALL (FWB) CONDENSER-2	1	6070	1300	500	1.76	3.95	3.946
126	LOOSE ITEMS LOWER DOME WALL (FWB) COND.-1	1	2500	1400	300	0.52	1.05	1.050
127	LOOSE ITEMS LOWER DOME WALL (FWB) COND.-2	1	2500	1400	300	0.51	1.05	1.050
128	LOWER DOME WALL(RWB) (CONDENSER-1)	1	7970	1780	700	3.60	9.93	9.931
129	LOWER DOME WALL(RWB) (CONDENSER-2)	1	7960	1780	300	3.72	4.25	4.251
130	LOWER DOME WALL(RWB) (CONDENSER-1)	1	7396	2800	1000	4.49	20.71	20.709
131	LOWER DOME WALL(RWB) (CONDENSER-2)	1	7396	2700	1000	4.47	19.97	19.969
132	LOWER DOME WALL(RWB) CONDENSER-1	1	6598	3200	700	4.78	14.78	14.780
133	LOWER DOME WALL(RWB) CONDENSER-2	1	6598	3200	700	4.77	14.78	14.780
134	LOWER DOME WALL(RWB) CONDENSER-1	1	5800	400	50	0.58	0.12	0.583
135	LOWER DOME WALL(RWB) CONDENSER-2	1	5864	400	50	0.58	0.12	0.583
136	LOWER DOME WALL(RWB) CONDENSER-1	1	7600	1300	300	1.83	2.96	2.964
137	LOWER DOME WALL(RWB) CONDENSER-2	1	7600	1500	300	2.02	3.42	3.420
138	LOOSE ITEMS LOWER DOME WALL (RWB) COND.-1	1	2100	2100	1800	0.88	7.94	7.938
139	LOOSE ITEMS LOWER DOME WALL (RWB) COND.-2	1	2100	2100	1800	0.88	7.94	7.938
140	Dome Internal Stiffening Condnsr-1	1	5500	2300	1100	6.50	13.92	13.915
141	Dome Internal Stiffening Condenser-2	1	5500	2300	1100	6.50	13.92	13.915
142	Dome Internal Stiffening Condenser-1	1	2400	1000	600	4.46	1.44	4.458
143	Dome Internal Stiffening Condenser-2	1	5500	550	1050	3.40	3.18	3.400
144	Dome Internal Stiffening Condenser-1	1	2000	800	550	1.24	0.88	1.240
145	Dome Internal Stiffening Condenser-2	1	1300	600	400	0.39	0.31	0.390
146	Dome Internal Stiffening Condenser-1	1	5300	450	250	1.17	0.60	1.170
147	Dome Internal Stiffening Condenser-2	1	2300	1250	1000	3.15	2.88	3.150
148	Dome Internal Stiffening Condenser-1	1	5800	500	500	2.00	1.45	2.000
149	Dome Internal Stiffening Condenser-2	1	1000	500	300	0.45	0.15	0.450
150	Dome Internal Stiffening Condenser-1	1	2700	1600	1000	4.55	4.32	4.550
151	Dome Internal Stiffening Condenser-2	1	2700	1200	1200	5.63	3.89	5.630
152	Loose Items Dome Internal Stiffening Cond.-1	1	3150	1500	1600	2.85	7.56	7.560
153	Loose Items Dome Internal Stiffening Cond.-2	1	3200	1600	1200	4.40	6.14	6.144
154	LP Heater Support Arrangement Loose Items	1	1000	800	500	1.05	0.40	1.045
155	LP Heater Support Arrangement Loose Items	1	1000	800	500	1.05	0.40	1.045
156	LP Heater Support Arrangement Loose Items	1	7500	550	500	2.18	2.06	2.180
157	LP Heater Support Arrangement Loose Items	1	7500	550	500	2.18	2.06	2.180
158	Upper Dome Wall (Turbine Side) Condenser-1	1	5755	710	300	1.57	1.23	1.570
159	Upper Dome Wall (Turbine Side) Condenser-2	1	8232	710	300	2.22	1.75	2.220
160	Upper Dome Wall(Gen Side) Condenser-1	1	5755	710	300	1.57	1.23	1.570
161	Upper Dome Wall(Gen Side) Condenser-2	1	8232	710	300	2.22	1.75	2.220
162	Upper Dome Wall (Fwb) Condenser-1	1	5755	700	300	1.57	1.21	1.570
163	Upper Dome Wall (Fwb) Condenser-2	1	5755	700	300	1.57	1.21	1.570
164	Upper Dome Wall(Rwb) Condenser-1	1	8232	710	300	2.22	1.75	2.220
165	Upper Dome Wall(Rwb) Condenser-2	1	8232	710	300	2.22	1.75	2.220
166	Front W/Box Hinge Arrangement	1	2200	900	1100	6.55	2.18	6.546
167	Front W/Box Hinge Arrangement	1	2200	900	1100	2.69	2.18	2.688
168	Rear W/Box Hinge Arrangement	1	1500	800	800	3.15	0.96	3.148
169	Rear W/Box Hinge Arrangement	1	1500	800	800	1.41	0.96	1.408
170	Front W/Box Hinge Arrangement	1	1000	800	700	0.40	0.56	0.560
171	Front W/Box Hinge Arrangement	1	1000	800	700	0.40	0.56	0.560
172	Rear W/Box Hinge Arrangement	1	1000	800	700	0.40	0.56	0.560

173	Rear W/Box Hinge Arran Gement	1	1000	800	700	0.40	0.56	0.560
174	Front W/Box Hinge Arran Gement	1	2400	700	400	0.65	0.67	0.672
175	Front W/Box Hinge Arran Gement	1	2400	700	400	0.65	0.67	0.672
176	Rear W/Box Hinge Arran Gement	1	2400	700	400	0.65	0.67	0.672
177	Rear W/Box Hinge Arran Gement	1	2400	700	400	0.65	0.67	0.672
178	Front W/Box Hinge Arran Gement	1	1495	1140	400	0.89	0.68	0.890
179	Front W/Box Hinge Arran Gement	1	1495	1140	400	0.89	0.68	0.890
180	Rear W/Box Hinge Arran Gement	1	1495	1140	400	0.89	0.68	0.890
181	Rear W/Box Hinge Arran Gement	1	1495	1140	400	0.89	0.68	0.890
182	Condenser (Loose Items)	1	1000	700	600	0.50	0.42	0.500
183	Condenser (Loose Items)	1	1000	700	600	0.50	0.42	0.500
184	Cond. Loose Items	1	1000	700	500	0.12	0.35	0.350
185	Cond. Loose Items	1	1000	700	500	0.13	0.35	0.350
186	Fasteners (Condenser)	1	1200	1100	850	2.40	1.12	2.400
187	Fasteners (Condenser)	1	1200	1100	850	2.40	1.12	2.400
188	Condenser Loose Items	1	4300	800	350	1.95	1.20	1.950
189	Condenser Loose Items	1	500	500	150	0.08	0.04	0.077
190	Condenser Stand Pipe No.1	1	3500	600	600	0.25	1.26	1.260
191	Stand Pipe No.1 (Condenser 1&2)	1	3350	550	500	0.35	0.92	0.921
192	Stand Pipe No.2 (Condenser 1&2)	1	3500	600	600	0.35	1.26	1.260
193	Condenser Stand Pipes No.2	1	3500	600	600	0.25	1.26	1.260
194	Condenser Instrumentation	1	1550	600	600	0.10	0.56	0.558
195	Condenser Instrumentation	1	1550	600	600	0.10	0.56	0.558
196	Condenser Instrumentation	1	1500	1300	700	0.73	1.37	1.365
197	Condenser Instrumentation	1	1500	1300	700	0.73	1.37	1.365
198	Gland Steam Condenser	1	1750	1700	1700	1.61	5.06	5.058
199	LOOSE ITEMS OF GSC	1	700	300	200	0.06	0.04	0.060
200	LOOSE ITEMS OF GSC (FRAGILE)	1	600	500	350	0.04	0.11	0.105
201	LP HEATER NO.1	1	17100	2200	2000	31.50	75.24	75.240
202	LP HEATER NO.2	1	17100	2200	2000	31.50	75.24	75.240
203	LP HEATER-1 STAND PIPE	1	2200	350	350	0.15	0.27	0.270
204	LP HEATER-2 STAND PIPE	1	2200	350	350	0.15	0.27	0.270
205	LP HEATER-1 LOOSE ITEMS	1	500	400	400	0.14	0.08	0.135
206	LP HEATER-2 LOOSE ITEMS	1	500	400	400	0.14	0.08	0.135
207	LP HEATER-1instrumentation (Fragile)	1	9500	400	400	0.08	1.52	1.520
208	LP HEATER-2 Instrumentation (Fragile)	1	9500	400	400	0.08	1.52	1.520
209	LP HEATER-1 Instrumentation (Non Fragile)	1	2100	500	400	0.17	0.42	0.420
210	LP HEATER-2 Instrumentation (Non Fragile)	1	2100	500	400	0.17	0.42	0.420
211	Trolley For Lp Heater-1	1	1350	800	200	0.66	0.22	0.664
212	Trolley For Lp Heater-2	1	1350	800	200	0.66	0.22	0.664
213	Hydrogen Cooler	1	5200	1270	1300	4.56	8.59	8.585
214	Hydrogen Cooler	1	5200	1270	1300	4.56	8.59	8.585
215	Loose Items (Hydrogen Cooler)	1	1270	1150	600	0.90	0.88	0.900
216	Exciter Air Cooler	1	3450	900	760	1.57	2.36	2.360
217	Exciter Air Cooler	1	3450	900	760	1.57	2.36	2.360
BOI Package Details Unit-2								
1	Butterfly Valves	1	625	625	375	0.13	0.15	0.146
2	Nrv With Aluminium Flap	1	318	280	150	0.02	0.01	0.023
3	Oil Purification Unit	1	2250	1500	1760	1.80	5.94	5.940
4	Spray Nozzles	13	220	220	110	0.003	0.01	0.069
5	Dirt Catchers	1	500	450	375	0.06	0.08	0.084
6	DAMPER (Box1)	1	920	920	920	0.21	0.78	0.779
	DAMPER (Box2)	1	920	920	920	0.19	0.78	0.779
7	Variable Load Spring Cages	1	1200	1000	500	36.00	0.60	36.000
		1	800	500	400	46.20	0.16	46.200
8	Thermal Insulation Of Turbine	1				20.00		20.000
9	Thermal Insulation Of Tip	1	3000	2500	2500	200.00	18.75	200.000
10	Turbine Oil Drums	276	810	760	490	0.20	0.30	83.254

11	Group Cables	1	1320	710	560	1.26	0.52	1.260
		1	1070	560	410	0.44	0.25	0.440
		1	760	560	360	0.18	0.15	0.180
		1	970	560	360	0.49	0.20	0.490
		1	860	560	360	0.26	0.17	0.260
		1	810	560	360	0.22	0.16	0.220
		1	1120	560	410	0.61	0.26	0.610
		1	1070	560	410	0.49	0.25	0.490
		1	1020	560	410	0.40	0.23	0.400
12	Turbine Integral Piping	1	9200	2500	2700	13.00	62.10	62.100
13	H & S For Turbine Integral Piping	1	6200	1000	1000	21.00	6.20	21.000
		1	6200	1000	1000	10.00	6.20	10.000
		1	900	600	600	0.50	0.32	0.500
14	Calibrated Flow Nozzle Assly.	1	6800	1500	1000	3.27	10.20	10.200
			6800	1500	1000	3.27	10.20	0.000
15	Angle Drain Valve (Pneumatic)	1	2000	1500	1500	6.00	4.50	6.000
16	Control Fluid (FRF) Drums	13	810	760	490	0.26	0.30	3.921
17	LP Bypass Stop & Control Valve	1	1000	900	700	0.11	0.63	0.630
		1	1200	800	800	0.16	0.77	0.768
		1	1500	1100	1100	0.90	1.82	1.815
		1	1500	1100	1100	0.60	1.82	1.815
		1	1000	900	700	0.15	0.63	0.630
		1	1200	1200	900	0.20	1.30	1.296
		1	1200	800	800	0.23	0.77	0.768
		1	2400	1400	1700	1.46	5.71	5.712
		1	2400	1400	1700	1.46	5.71	5.712
		1	1200	1200	900	0.89	1.30	1.296
		1	3900	2600	2500	10.00	25.35	25.350
		1	3900	2600	2500	10.00	25.35	25.350
		1	2500	900	1100	0.72	2.48	2.475
		1	2500	900	1100	0.72	2.48	2.475
18	Steam Trap	1	625	600	750	0.25	0.28	0.281
19	Gear Pump (Lub. Oil Recirculat	1	700	700	500	0.07	0.25	0.245
20	Power Cables For 24 V Solenoid	1	810	560	36	0.40	0.02	0.400
		1	860	560	36	0.42	0.02	0.420
21	Level Instruments For Oil Syst	1	1730	250	250	0.08	0.11	0.108
22	Level Indicators For Oil Tanks	1	1960	230	230	0.04	0.10	0.104
		1	1960	230	230	0.04	0.10	0.104
23	Vacuum Breaker Valve With Pneu	1	1200	700	900	0.19	0.76	0.756
24	HP Relief Valve	1	1950	1320	130	0.84	0.33	0.835
25	Oil Module (Cooler Module)	1	3500	2700	7200	20.00	68.04	68.040
	Oil Module (Tank Module)	1	10000	3500	5000	25.00	175.00	175.000
26	Oil Throttle Valves	8	500	400	450	0.07	0.09	0.720
		8	500	400	450	0.07	0.09	0.720
		8	500	400	425	0.07	0.09	0.680
		8	450	375	400	0.05	0.07	0.540
27	Seal Steam Control Valve With	1	1500	700	600	0.40	0.63	0.630
28	Leak Steam Control Valve With	1	3000	1800	1100	2.40	5.94	5.940
29	Turbine Instrument Racks	10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.23	5.14	51.447
		10	2290	940	2390	0.23	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.23	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447
		10	2290	940	2390	0.30	5.14	51.447

		10	810	610	410	0.15	0.20	2.026
		10	810	610	410	0.15	0.20	2.026
		10	300	300	250	0.01	0.02	0.225
		10	300	300	250	0.01	0.02	0.225
30	Pneumatic Globe Valve	1	500	400	300	0.03	0.06	0.060
31	Hydraulic Power Supply Unit For Turbine Valves	1	3200	2800	3200	7.50	28.67	28.672
32	Turbine Supervisory Instrumentation	1	780	590	490	0.06	0.23	0.225
33	Pressure Transmitters For Steam Turbine	1	1000	500	500	0.57	0.25	0.566
34	PRESSURE GAUGES FOR TG SET	1	400	200	200	0.07	0.02	0.070
35	EMPTY H2 CYLINDER	128	145	23.5	23.5	0.06	8.05	1030.833
36	EMPTY CO2 CYLINDER	44	145	23.5	23.5	0.06	2.77	121.807
37	EMPTY N2 CYLINDER	12	145	23.5	23.5	0.06	0.76	9.060
38	Vapour Exhauster	2	500	470	500	0.08	0.12	0.235
39	Refrigeration Gas Dryer	2	1000	800	1400	1.00	1.12	2.240
40	Slip Ring Cover (Complete With Fabrication & Lining)	1	4500	3500	4000	5.00	63.00	63.000
41	Primary Water Cooler (Plate Type)	2	500	1700	1700	1.00	1.45	2.890
42	Hydraulic Unit Assembly	1						0.000
43	Generator Integral Piping	1				19.30		19.299
44	Hydrogen Coolers Piping	1				7.17		7.171
45	Condensar Air Evacuation Packa	4	6300	2500	3000	8.00	47.25	189.000
46	Air Exhauster With Motor	2	1100	1000	700	0.20	0.77	1.540
47	Multi Ball Bearing Support	2	400	400	210	1.49	0.03	2.976
48	Seamless Titanium Tubes	134	13700	1200	500	133.90	8.22	17942.6
49	Moisture Measuring Equipment	1	920	920	460	0.08	0.39	0.389
		1	200	260	360		0.02	0.019
50	Motorised Temperature Control Valve With Actuator	1	2240	1400	1120	1.96	3.51	3.512
51	H2 Gas Analyser Cabinet	2	890	860	230	0.27	0.35	0.704
		2	740	710	560	0.05	0.59	1.177
		2	660	300	710	0.02	0.28	0.562
		2	610	560	410	0.04	0.28	0.560
		2	150	150	970	0.03	0.04	0.087
		2	150	150	970	0.03	0.04	0.087
52	STARTING RESISTOR FOR DC S.O MOTOR	1	610	610	700	0.07	0.26	0.260
53	Grounding Brush Monitor	1	400	150	400	0.02	0.02	0.024
		1	1500	1500	800	0.10	1.80	1.800
54	PW Temperature Control Valve	1	1730	970	1020	0.52	1.71	1.712
55	DC Starters & Instrumentation	1	1050	850	2300	0.95	2.05	2.053
		1	850	850	2300	0.70	1.66	1.662
		1	850	850	2300	0.70	1.66	1.662
		1	850	850	2300	0.65	1.66	1.662
								32873.257

Unit HYD :

Sno	Description of Package	No of Pkgs	Length in MM	Width in MM	Height in MM	Gr, Wt in MT for per pkg	Volume in M3/per item	FRT
	TC Engg							
1	Drive Turbine	4	4350	4900	4250	65.00	90.59	362.355
2	Gear Box	4	1050	1400	1150	1.30	1.69	6.762
3	Lube oil console Package –I	4	5000	4000	3000	8.00	60.00	240.000
4	Lube oil console Package –II	4	3000	3000	3000	6.50	27.00	108.000
5	Lube oil console Package –III	4	4800	700	2400	6.00	8.06	32.256
6	Emergency oil pump assembly	4	2000	1000	800	1.50	1.60	6.400
7	Jacking oil pump assembly	4	2000	800	600	0.20	0.96	3.840
8	Oil purification unit	4	1900	1800	1900	1.20	6.50	25.992
9	Oil accumulators	4	800	800	2200	0.35	1.41	5.632

10	Governing console	4	1600	1600	2000	0.68	5.12	20.480
11	Transition piece	4	3226	2032	2184	2.40	14.32	57.267
12	Turbine enclosure(Supplied in dismantled condition)	4	4600	6600	4100	7.00	124.48	497.904
13	DCSC for Emergency lube oil pump	4	1600	750	2500	0.60	3.00	12.000
14	Auxiliary control valve assembly	4	1500	700	1500	0.70	1.58	6.300
Pump Engineering- TDBFP								
1	Turbine Driven Boiler Feed Pump (TD BFP) with Base Plate & Tubing	4	3500	3100	3000	22.50	32.55	130.200
2	Turbine Driven Boiler Feed Booster Pump (TD BP) with Base Plate & Tubing	4	3000	2800	2000	6.50	16.80	67.200
3	Recirculation Valve	4	1100	1100	2900	1.00	3.51	14.036
4	Conical Suction Strainer at BFP suction	4	4000	1200	1200	1.40	5.76	23.040
5	Basket type Suction Strainer at BP suction	4	1500	1500	2000	2.50	4.50	18.000
6	Local Gauge Rack (LGB)–1,2 & 3	12	1100	900	2200	0.40	2.18	26.136
7	Local instrument Transmitter Rack (LIR)	2	2000	650	2150	0.25	2.80	5.590
Pump Engineering- MDBFP								0.000
1	Motor Driven Boiler Feed Pump (MD BFP) with Base Plate & Tubing	2	3500	3100	3000	20.50	32.55	65.100
2	Motor Driven Boiler Feed Booster Pump (MD BP) with Base Plate & Tubing	2	2200	1900	3000	4.60	12.54	25.080
3	Hydraulic Coupling	2	4000	3000	4000	11.50	48.00	96.000
4	HC Working Oil Coolers & accessories	2	5000	1000	1000	2.10	5.00	10.000
5	HC Lube Oil Coolers & accessories	2	2500	600	600	1.00	0.90	2.000
6	Recirculation Valve	2	1000	1000	2800	0.90	2.80	5.600
7	Conical Suction Strainer at BFP suction	2	3100	1000	1000	1.20	3.10	6.200
8	Basket type Suction Strainer at BP suction	2	1500	1500	1600	2.35	3.60	7.200
9	Local Gauge Rack (LGB)–1,2&3	6	1100	900	2200	0.40	2.18	13.068
10	Local instrument Transmitter Rack (LIR)	2	1050	650	1500	0.15	1.02	2.048
11	MD BFP Motor	2	4700	1500	3000	30.00	21.15	60.000
Pump Engineering- CEP								
1	Condensate Extraction Pump	6	11000	3000	3000	19.00	99.00	594.000
2	Sole plate	6	2200	2200	400	1.00	1.94	11.616
3	Canister	6	7600	2200	2200	3.40	36.78	220.704
4	Basket type Suction Strainer at CEP suction	6	1750	1750	2000	1.50	6.13	36.750
5	Local Gauge Rack	6	1300	900	2000	0.30	2.34	14.040
6	LIR Rack for Pr. Transmitters	2	2000	650	2150	0.25	2.80	5.590
7	LIR Rack for Diff. Pr. Transmitters	2	1050	650	1500	0.15	1.02	2.048
8	CEP Motor	6	2100	2100	3500	9.50	15.44	92.610
Pump Engineering- Drip Pump								0.000
1	Drip pump	4	8500	3000	1600	15.00	40.80	163.200
2	Sole plate	4	2200	2200	400	1.00	1.94	7.744
3	Canister	4	7600	2200	2200	3.40	36.78	147.136
4	Basket type Suction Strainer at pump suction	4	1750	1750	2750	2.00	8.42	33.688
5	Connecting coupling	4	1000	500	500	0.30	0.25	1.200
6	Local Gauge Rack	4	1300	900	2000	0.40	2.34	9.360
7	LIR Rack for Pr. Transmitters	2	2000	650	2150	0.30	2.80	5.590
8	LIR Rack for Diff. Pr. Transmitters	2	1050	650	1500	0.20	1.02	2.048
9	motor	4	2500	1900	3800	10.00	18.05	72.200
Pump Engineering- CWP								
1	Suction Bell	5	2500	2500	600	1.05	3.75	18.750
2	Impeller	5	2000	2000	1000	2.23	4.00	20.000
3	Discharge Bowl	5	2500	2500	1750	5.69	10.94	54.688
4	Discharge Elbow	5	2800	2800	2000	5.29	15.68	78.400
5	Stuffing Box	5	700	700	400	0.22	0.20	1.100
6	Bearing Box Upper	5	700	700	350	0.17	0.17	0.858
7	Shafts	15	1000	1000	4000	4.37	4.00	65.550
8	Shaft Coupling	10	1400	1400	1000	0.42	1.96	19.600

9	Suction Liner	5	2300	2300	550	1.04	2.91	14.548
10	Lifting Column pipe	5	3200	3200	1800	5.30	18.43	92.160
11	Column pipe (upper)	5	2300	2300	2100	2.18	11.11	55.545
12	Column pipe (lower)	5	2000	2000	1800	2.00	7.20	36.000
13	Motor pedestal	5	5000	5000	1000	7.88	25.00	125.000
14	Sole plate (Pump)	5	3500	3500	150	1.21	1.84	9.188
15	Sole plate (Motor pedestal)	5	900	600	150	0.12	0.08	0.600
16	Coupling cover	5	1400	1400	1800	0.06	3.53	17.640
17	Thrust bearing pedestal	5	1200	1200	700	0.88	1.01	5.040
18	Thrust bearing	5	1500	1500	1500	1.40	3.38	16.875
19	Connecting coupling	5	500	500	1000	1.25	0.25	6.250
20	Counter flange	5	2500	2500	150	1.20	0.94	6.000
21	Hardware & Miscellaneous	5	2000	2000	2000	1.00	8.00	40.000
22	Vibration monitoring system	1	1000	1000	1000	0.40	1.00	1.000
	Mills Engineering							
1	Journal Assembly	36	1700	1700	2100	5.76	6.07	218.484
2	Journal Head Assembly	36	1700	1700	2100	3.44	6.07	218.484
3	Planetary Gear Box	12	1650	2200	2700	15.00	9.80	180.000
4	Bowl and Bowl Hub Assembly	12	1865	2800	2800	19.60	14.62	235.200
5	Mill Side Assembly	12	2455	4105	4105	19.83	41.37	496.431
6	Separator Body Assembly	12	3200	4660	4660	29.65	69.49	833.879
7	Seperator Top Assembly	12	1250	3750	3750	4.74	17.58	210.938
8	Knife Gate Valve Assembly(48				0.50		23.760
9	Dynamic Classifier Assembly (loose Items)	12				11.80		141.600
	HE & Fab Engineering							
1	Drain Cooler	2	6500	1500	1700	10.05	16.58	33.150
2	LP Heater 3	2	12850	2000	2600	30.60	66.82	133.640
3	LP Heater 4	2	12850	2000	2450	31.40	62.97	125.930
4	LP Heater 5	2	11850	2000	2200	28.60	52.14	104.280
5	Dearator header	2	12850	3400	3750	36.00	163.84	327.675
6	Dearator Storage Tank-1	2	11500	4150	4650	46.50	221.92	443.843
7	Dearator Storage Tank-2	2	10550	4150	4650	41.50	203.59	407.177
8	Dearator Storage Tank-3	2	12500	4150	4750	51.00	246.41	492.813
9	Dearator Storage Tank-4	2	10550	4150	4650	41.50	203.59	407.177
10	Dearator Storage Tank-5	2	11500	4150	4650	46.50	221.92	443.843
11	HP Heater 7A	2	12700	2200	2900	65.00	81.03	162.052
12	HP Heater 7B	2	12700	2200	2900	65.00	81.03	162.052
13	HP Heater 8A	2	13500	2200	2900	85.00	86.13	172.260
14	HP Heater 8B	2	13500	2200	2900	85.00	86.13	172.260
15	HP Heater 9A	2	10600	2200	2900	75.00	67.63	150.000
16	HP Heater 9B	2	10600	2200	2900	75.00	67.63	150.000
17	External Desuperheater for 7A	2	6000	1500	2300	32.60	20.70	65.200
18	External Desuperheater for 7B	2	6000	1500	2300	32.60	20.70	65.200
19	Oil Cooler for BFPDT	8	5000	600	2400	5.50	7.20	57.600
20	CPU Heat Exchanger	2	9000	1800	2400	32.00	38.88	77.760

10778.684

Unit ISG:

S.No.	Item Description	No of pkgs/ items	UOM	Len in mtr.	Wid in mtr.	Hei in mtr.	CBM/pkg	Tot Gr. Wt in MT
	Electricals							
1	DistributionTransformer	15	Nos	3	3	2.5	22.5	120
2	Lighting transformer	14	Nos	1.5	1.2	1.2	2.16	18.2
3	PMCC	200	Panels	0.85	1.4	2.5	2.975	160
4	WDB	25	Shipping Sections	2	0.6	2.2	2.64	25.2
5	MLDB	15	Shipping	4	1.2	2.2	10.56	16.8

			Sections					
6	SLDB/EMLDB/ESLDB/LDB	200	Shipping Sections	2	0.8	1.2	1.92	100
7	DCDB	7	Shipping Sections	2.4	0.6	1.8	2.592	3.75
8	Battery cells		Nos					6
9	Battery Charger	7	Shipping Sections	3	0.6	1.4	2.52	10
10	Field switches		Nos					5
11	ACDB	15	Shipping Sections	2	0.6	1.8	2.16	7
12	LT Bus Duct	21	Sections					42
13	HT Power cable	180	DRUM	1.98	1.015	1.115	2.240	900
14	LT Power Cable	250	DRUM	1.3	0.4	0.57	0.296	800
15	LT Power Cable	300	DRUM	1.9	0.6	0.875	0.997	800
16	LT control cable	400	DRUM	1.3	0.4	0.57	0.296	450
17	Cable Tray (600 W)	25000	Nos	2.5	0.6	0.1	0.15	800
18	Cable Tray (300 W)	10000	Nos	2.5	0.3	0.1	0.075	300
19	Cable Tray (150 W)	5000	Nos	2.5	0.15	0.1	0.0375	100
20	Cable tray supports	10000	Nos	6	0.05	0.05	0.015	200
	Earthing and Lightning material	1	Lot					30
	Light fittings, poles, etc	1	Lot					200
	Misc items such as welding sockets, glands, lugs, control desk etc	1	Lot					406
	Lime Stone Stacker							
1	Boom Assembly							
a	Boom Steel Structure - Pivot part			16	5	2.5	200	12
b	Boom Steel Structure - Front part			14	4	2	112	9
2	Boom Local Mast			8	2	0.5	8	2
3	Slewdeck			5	4.5	3.5	78.75	9
4	Portal			8	7	2	112	15
5	Tripper Assembly							
a	Portal -1			6	1	8	48	5.5
b	Portal -2			6	1	5.5	33	2.5
c	Portal - 3			6	1	5.2	31.2	2
d	Main Platform			15	6	1.5	135	10
e	Conveyor Frame - 1			24	4	0.8	76.8	10
f	Conveyor Frame - 2			14	4	0.8	44.8	5
g	Conveyor Frame - 3			8	4	0.8	25.6	3
6	Tripper Bracing			8.5	0.5	0.5	2.125	2
7	Remaining Miscellaneous structures Including Walkways, gratings handrails etc							40
8	Miscellaneous Mechanicals (includes Drive components, conveyor components, Slewing Assembly mechanicals, Luffing System and Long Travel items)							45
9	Miscellaneous Electricals							20
10	Counterweight - RCC Counterweight to be arranged at Site							75
	Coal Stacker							Gr Wt per pkg
1	Boom Assembly							
a	Boom Pivot Steel Structure	4	Nos	16.5	5	1.5	123.75	7
b	Boom Front Steel Structure - Part-1	4	Nos	16	5	1.5	120	7
c	Boom Front Steel Structure - Part-2	4	Nos	20	6	2	240	21
2	Boom Local Mast	4	Nos	8	2.6	0.5	10.4	6
3	Slewdeck	4	Nos	6	4.5	3.5	94.5	11
4	Portal	4	Nos	10	7.5	3.3	247.5	24
5	Tripper Assembly							
a	Portal -1	4	Nos	8.5	1	9.5	80.75	7
b	Portal -2	4	Nos	8.5	1	4.5	38.25	5.5
d	Main Platform	4	Nos	24	8.5	1.5	306	15
e	Conveyor Frame - 1	4	Nos	18	4.5	0.8	64.8	8
f	Conveyor Frame - 2	4	Nos	17	4.5	0.8	61.2	7

g	Conveyor Frame - 3	4	Nos	17	4.5	0.8	61.2	6
6	Tripper Bracing	4	Nos	12.5	0.5	0.5	3.125	4.5
7	Remaining Miscellaneous structures Including Walkways, gratings handrails etc	4	Set					70
8	Miscellaneous Mechanicals (includes Drive components, conveyor components, Slewing Assembly mechanicals, Luffing System and Long Travel items)	4	Set					95
9	Miscellaneous Electricals	4	Set					25
10	Counterweight - RCC Counterweight to be arranged at Site	4	Set					150
	Portal Scraper Reclaimer							Gr Wt per pkg
1	Portal							
a	Portal -1	4	Nos	26	3	3.5	273	50
b	Portal -2	4	Nos	25	3	3.5	262.5	44
c	Portal -2	4	Nos	12.5	3	3.5	131.25	26
2	Top Girder Fixed Side	4	Nos	14	2.5	1	35	17
3	Scraper Boom							
a	Boom Part-1	4	Nos	15	2	1.5	45	10
b	BoomPart-2	4	Nos	15	2	1.5	45	10
c	Aux. Scraper boom	4	Nos	19	1.25	0.9	21.375	6
4	Remaining Miscellaneous structures Including Walkways, gratings handrails etc	4	Set					60
5	Miscellaneous Mechanicals (includes Scraper chain drive, Boom hoist winch, chain etc)	4	Set					70
6	Miscellaneous Electricals	4	Set					25
	Ash Handling System							Tot Gr. Wt in MT
1	AHP Pipes seamless, ERW etc	43		12.19	2.44	2.9	86.256	1311
2	AHP Prefabricated structures, silos etc	110		12.19	2.44	2.9	86.256	3795
3	HCSD Pump and accessories	4		12.19	2.44	2.9	86.256	130
4	AHP Compressors	4		12.19	2.44	2.9	86.256	138
5	Balance Ash handling system	120		12.19	2.44	2.9	86.256	3900
6	Dry Bottom Ash system -Main core Equipment, Electrics, Bottom ash hopper etc	62		12.19	2.44	2.9	86.256	868
7	Dry Bottom Ash system -Refractory , insulating panels etc	10		12.19	2.44	2.9	86.256	190
8	Dry Bottom Ash system Steel structures etc	22		12.19	2.44	2.9	86.256	396
	COAL HANDLING SYSTEM							
1	Conveyor Belt	29464	MTR					946
2	Pulley	258	NOS					533
3	Idler	1	LOT					2494
	Skirt Sealing	34	LOT					0
4	Technological Structure	1	LOT					2806
5	Internal Scraper	64	NOS					4
6	Motor For Conveyor	34	NOS					153
7	Scoop Coupling For Conveyor	30	NOS					32
8	Traction Coupling For Conveyor	4	NOS					2
9	Hs Coupling	34	NOS					10
10	Gear Box	34	NOS					100
11	Geared Coupling	34	NOS					17
12	Primary Scrapers	34	NOS					2
13	Secondary Scraper	42	NOS					3
14	Brake	34	NOS					5
15	Pull Cord Switch	960	NOS					5
16	Belt Sway Switch	708	NOS					4
17	Zero Speed Switch	34	NOS					0
18	Flap gate	22	NOS					74
19	Actuator (For Flap Gate)	22	NOS					9
20	Flow Divider (Without Actuator)	8	SETS					56
21	Actuator (For Flow Divider)	8	NOS					5
22	R & P Gates (Without Actuator)	2	SETS					3

23	Actuator (For R & P Gate)	2	NOS					2
24	Rod Gates	6	SETS					12
25	Vibrating Grizzly Feeder	2	NOS					32
26	Vibrating Grizzly Screen	4	NOS					80
27	Crusher (Ring Granulator)	2	NOS					60
28	Scoop Coupling For Crusher	2	NOS					8
29	Vibration Isolation System For Crusher	2	SETS					1
30	ILMS (WITH E & I)	4	NOS					60
31	Metal Detector (With E & I)	4	NOS					2
32	Belt Weigher (With E & I)	4	NOS					3
33	Coal Extraction System	2	NOS					8
34	Chute Work	1	LOT					626
35	Coal Blending Silo	2	NOS					218
36	Coal Analyzer	6	NOS					1
37	Coal Sampling Unit	2	SETS					40
38	Travelling Tripper	4	NO					120
39	Tripper Rail Supporting Beam	160	SETS					56
40	Tripper Rail Supporting Post	84	SETS					22
41	Rail For Tripper	488	MTR					25
42	Hydraulic Rail Clamp (Thrusters Rail Clamp)	4	NOS					1
43	Motor For Tripper	4	NOS					2
44	Bunker Sealing Arrangement	2	SETS					1
45	Bunker Sealing Belt	420	MTR					6
46	Tripper Control Panel	4	NOS					1
47	CRD For Tripper	4	NOS					1
48	Hoist	84	NOS					73
49	Elevator With Panel	2	NOS					18
50	Dust Extraction System	1	LOT					127
51	Ventilation System	1	LOT					85
52	Air Conditioning System	1	LOT					33
53	Dust Suppression System	1	LOT					133
54	Service Water System	1	LOT					44
55	Drinking Water System	1	LOT					51
56	Coal Runoff System	1	LOT					13
57	Vacuum Cleaning System	1	LOT					15
58	Belt Vulcanizing Machine	1	NOS					1
59	Electrical Items	1	LOT					205
	Total							

Unit: PESD

Sno	Item Description	L (Mtr)	W (Mtr)	H (Mtr)	Unit	Qty	Unit Weight in Kgs	Total WT in ton
I	Fire Water Pump House Equipment							
1	Horizontal centrifugal Electric Motor Driven Main Pump with motor and all accessories.	2.4	1.2	1.5	Nos.	2	2500	5.00
2	Horizontal centrifugal Diesel Engine Driven Stand By Pump including Diesel Engine & Gear heads and all accessories.	3.4	1.5	2	Nos.	2	3600	7.20
3	Batteries and battery charger for Diesel engine	1.12	0.65	–	Nos.	2	500	1.00
4	Horizontal centrifugal Electric Motor driven horizontal centrifugal Jockey pump with motor and accessories	1.6	1	1	Nos.	4	550	2.20
5	Expansion tank	DIA = 2.2	–	6	set	2	350	0.70
6	Fuel transfer pump	1.2	0.8	0.5	Nos.	4	225	0.90
II	Booster Pump House							

1	Motor driven horizontal centrifugal pump with all accessories + Motor for Booster pump	1.6	1	1.5	Nos.	2	500	1.00
2	Diesel engine driven horizontal centrifugal pump with all accessories + Diesel engine for booster pump with all accessories	2.5	1.2	1.5	Nos.	2	500	1.00
3	PLC panel in fire water pump house alongwith power supply system & Two no. Operator Works Station & Peripherals	0.6	0.8	0.5	set	2	5	0.01
4	Remote I/O panel in booster pump house alongwith power supply system and one no. Graphical Interface Unit	0.6	0.5	0.5	set	2	5	0.01
III	Yard Piping (Including Pipes Of Fwph, Yard And Risers)						wt/Mtr in Kgs.	
1	MS Black Piping (Heavy. Gr. Of IS: 1239 & Gr. 410 of IS: 3589)							0.00
1.1	700 NB	60	-	-	Mtrs.	60	165	9.90
1.2	600 NB	78	-	-	Mtrs.	78	125	9.75
1.3	400 NB	60	-	-	Mtrs.	60	93	5.58
1.4	300 NB	11050	-	-	Mtrs.	11050	74	817.70
1.5	250 NB	770	-	-	Mtrs.	770	60	46.20
1.6	200 NB	1950	-	-	Mtrs.	1950	43	83.85
1.7	150 NB	1200	-	-	Mtrs.	1200	28	33.60
1.8	100 NB	3690	-	-	Mtrs.	3690	16	59.04
1.9	80 NB	180	-	-	Mtrs.	180	11	1.98
1.10	50 NB	80	-	-	Mtrs.	80	9	0.72
1.11	25 NB	100	-	-	Mtrs.	100	5	0.50
2	UNDERGROUND PIPE MS							
2.1	300 NB	5250	-	-	Mtrs.	5250	74	388.50
2.2	250 NB	4500	-	-	Mtrs.	4500	60	270.00
3	Fittings and structural steel	1 Lot	-	-	kgs	1 Lot	25000	25.00
IV	Valves						wt/unit in Kgs.	
1	Gate Valve (CI Body,PN16,as per IS 780) (Rising Spindle)							0.00
1.1	600 NB	1.2	0.6	3.6	Nos.	5	1250	6.25
1.2	400 NB	0.8	0.4	2.3	Nos.	1	520	0.52
1.3	300 NB	0.5	0.3	1.9	Nos.	18	305	5.49
1.4	250 NB	0.45	0.25	1.7	Nos.	11	200	2.20
1.5	200 NB	0.4	0.2	1.4	Nos.	35	126	4.41
1.6	150 NB	0.4	0.15	1.2	Nos.	20	76	1.52
1.7	100 NB	0.3	0.1	1	Nos.	30	44	1.32
1.8	80 NB	0.3	0.1	0.8	Nos.	20	27	0.54
1.9	65 NB	0.3	0.1	0.7	Nos.	20	20	0.40
1.10	50 NB	0.2	0.05	0.6	Nos.	20	15	0.30
2	Butterfly Valves (CI Body,PN16,as per IS 13095)							
2.1	600 NB	-	-	-	Nos.		295	0.00
2.2	400 NB	-	-	-	Nos.		410	0.00
2.3	300 NB	-	-	-	Nos.		150	0.00
2.4	250 NB	-	-	-	Nos.		65	0.00
3	Non return Valves (CI Body,PN16,as per IS 5312))							
3.1	600 NB	2	0.6	1.4	Nos.	0	600	0.00
3.2	400 NB	1.4	0.4	1	Nos.	1	1101	1.10
3.3	300 NB	1.1	0.3	0.9	Nos.	2	597	1.19
3.4	250 NB	1	0.25	0.8	Nos.	10	377	3.77
4	200 NB Motorised Butterfly valve	0.8	0.2	0.8	Nos.	2	150	0.30

5	150 NB Automatic pressure reducing valve	0.4	0.15	1.2	Nos.	4	200	0.80
6	Basket Strainer 600 NB (Simplex type)	0.6	0.6	2	Nos.	4	400	1.60
7	Basket Strainer 300 NB (Simplex type)	0.3	0.3	1	Nos.	2	300	0.60
8	Four- way valve for fire tender connection	1	0.5	1	Nos.	15	100	1.50
9	INSTRUMENTATION (For main fire water pump house & booster pump house)							
9.1	Pressure Gauge	0.2	0.1	0.3	Nos.	30	0.5	0.02
9.2	Pressure Switch	0.1	0.1	0.1	Nos.	24	0.5	0.01
10	Cabling							
	Control cable (2 c x 1.5 mm2)	2000	-	-	lot	2,000	100	200.00
IV	Hydrant System				Unit	Qty	Unit Weight in Kgs	
	HYDRANT VALVES:							
								0.00
1	External	0.2	0.1	0.2	Nos	160	20	3.20
2	Internal	0.2	0.1	0.2	Nos	160	20	3.20
3	Branch pipe with nozzle	-	-	-				
4	Hose Pipe							
4.1	RRL Hoses Type A (external)15 m long	15	-	-	Nos.	320	15	4.80
4.2	RRL Hoses Type A (internal) 7.5 m long	8	-	-	Nos.	360	8	2.88
5	Hose boxes							
5.1	MS Hose boxes 18 Gauge (external)	0.75	0.25	0.6	Nos.	320	5	1.60
5.2	MS Hose boxes 18 Gauge (internal)	0.75	0.25	0.6	Nos.	200	5	1.00
6	Water monitor (75 mm size, nozzle hose 38 mm) along with branch pipe and an isolation valve.	0.5	0.5	0.6	Nos	60	40	2.40
7	Branch pipe, nozzle & coupling (internal)	-	-	-	Nos.	200	10	2.00
8	GM Air release valve 25 mm dia	-	-	-	Nos.	55	10	0.55
V	GI Pipe (MVWS + HVWS system)				Unit	Qty	Mass/Mtr in Kgs	
1	150 NB	3095	-	-	Mtrs.	3095	21	65.00
2	100 NB	9950	-	-	Mtrs.	9950	15	149.25
3	80 NB	3005	-	-	Mtrs.	3005	10	30.05
4	65 NB	2950	-	-	Mtrs.	2950	8	23.60
5	50 NB	12500	-	-	Mtrs.	12500	6	75.00
6	40 NB	9850	-	-	Mtrs.	9850	4	39.40
7	32 NB	5500	-	-	Mtrs.	5500	3	16.50
8	25 NB	12500	-	-	Mtrs.	12500	3	37.50
VI	HWV Spray System for Transformers, boiler burner fronts, lub oil system, oil canals, clean & dirty oil tanks, generator seal oil units.				Unit	Qty	Mass/Mtr or Unit Weight in Kgs	
1	Automatic Deluge valve assembly with all accessories							
1.1	150 NB	0.2	0.6	0.7	Nos.	4	151	0.60
1.2	100 NB	0.3	0.5	0.6	Nos.	35	97	3.40
1.3	80 NB	0.25	0.4	0.5	Nos.	2	45	0.09
1.4	50 NB	0.25	0.4	0.5	Nos.	-	30	0.00
2	Isolation Valve for Deluge valve (Gate valves)							
2.1	150 NB	0.4	0.15	1.2	Nos.	8	76	0.61
2.2	100 NB	0.4	0.15	1.2	Nos.	70	44	3.08
2.3	80 NB	0.3	0.1	0.8	Nos.	4	32	0.13
2.4	50 NB	0.2	0.05	0.6	Nos.	-	30	0.00
3	Isolation Valve for Deluge valve (Butterfly valves)							
								0.00

3.1	150 NB	0.4	0.15	1.2	Nos.	4	13	0.05
3.2	100 NB	0.4	0.15	1.2	Nos.	35	9	0.32
3.3	80 NB	0.3	0.1	0.8	Nos.	2	4	0.01
3.4	50 NB	0.2	0.05	0.6	Nos.	-	30	0.00
4	M.S.Y- Type Strainer							0.00
4.1	150 NB	0.6	0.15	1	Nos.	4	40	0.16
4.2	100 NB	0.45	0.1	0.8	Nos.	35	25	0.88
4.3	80 NB	0.4	0.1	0.7	Nos.	2	15	0.03
4.4	50 NB	0.3	0.8	0.6	Nos.	-	30	0.00
5	Spray Nozzle - Stainless Steel	-	-	-	Nos.	3000	0.125	0.38
6	Q.B Detector - 79 °	0.03	0.03	0.05	Nos.	2000	0.10	0.20
7	Pressure Switch	0.1	0.1	0.1	Nos.	82	0.50	0.04
8	Limit Switch	0.1	0.1	0.1	Nos.	164	0.50	0.08
8	Local push button station	0.2	0.2	0.2	Nos.	41	5.00	0.21
9	Cabling (2 c x 1.5mm2)	855	-	-	Mtrs.	855	200.00	171.00
10	Pylon Supports							0.00
10.1	80 NB - MS	-	-	-	Mtrs.	2000	11.0	22.00
10.2	50 NB - MS	-	-	-	Mtrs.	1000	9.0	9.00
11	Pipe fittings and Structural steel	-	-	-	kgs	1 Lot	18000.00	18.00
VI	Medium Velocity Water Spray System (For Conveyors, Cable Galleries, Transfer Points, Fuel Tanks, Crusher House, Wagon Tippler etc.)				Unit	Qty	Mass/Mtr or Unit Weight in Kgs	
1	Automatic Deluge valve assembly with all accessories							0.00
1.1	150 NB	0.2	0.6	0.7	Nos.	50	151	7.55
1.2	100 NB	0.3	0.5	0.6	Nos.	120	97	11.64
1.3	80 NB	0.25	0.4	0.5	Nos.	15	70	1.05
1.4	50 NB	0.25	0.4	0.5	Nos.	-	50	0.00
2	Isolation Valve for Deluge valve (Gate valves)							0.00
2.1	150 NB	0.4	0.15	1.2	Nos.	100	76	7.60
2.2	100 NB	0.4	0.15	1.2	Nos.	240	44	10.56
2.3	80 NB	0.3	0.1	0.8	Nos.	30	27	0.81
2.4	50 NB	0.2	0.05	0.6	Nos.	0	15	0.00
3	Isolation Valve for Deluge valve (Butterfly valves)							0.00
3.1	150 NB	0.4	0.15	1.2	Nos.	50	13	0.65
3.2	100 NB	0.4	0.15	1.2	Nos.	120	9	1.08
3.3	80 NB	0.3	0.1	0.8	Nos.	15	5	0.08
3.4	50 NB	0.2	0.05	0.6	Nos.	-	3	0.00
4	Y- Type Strainer							0.00
4.1	150 NB	0.6	0.15	1	Nos.	50	40	2.00
4.2	100 NB	0.45	0.1	0.8	Nos.	120	25	3.00
4.3	80 NB	0.4	0.1	0.7	Nos.	15	20	0.30
4.4	50 NB	0.3	0.8	0.6	Nos.	-	10	0.00
5	Spray Nozzle - Stainless Steel	-	-	-	Nos.	8000	0.125	1.00
6	Q.B Detector - 79 °	0.03	0.03	0.05	Nos.	2000	0.10	0.20
7	S.S. flexible hose 25NB X 15M long with quick coupling	15	-	-	Nos.	20	15.00	0.30
8	S.S. flexible hose 100 NB X 15M long with quick coupling	15	-	-	Nos.	20	20.00	0.40
9	S.S. flexible hose 150NB X 15M long with quick coupling	15	-	-	Nos.	15	25.00	0.38
10	Butterfly valves for connecting flexible hoses (50NB)	0.2	0.05	0.6	Nos.	60	3.00	0.18
11	Pressure Switch	0.1	0.1	0.1	Nos.	185	0.50	0.09
12	Limit Switch	0.1	0.1	0.1	Nos.	370	0.50	0.19
13	Local push button station	0.2	0.2	0.2	Nos.	185	5.00	0.93

14	Cabling (2 c x 1.5mm2)	1500	-	-	Mtrs.	1500	200.00	300.00
15	Local control panel on Stacker Reclaimer with operating OWS/GIU and Push button station along with alarms in the control panel	1	0.5	2	set	1	100.00	0.10
16	Pipe fittings and Structural steel	-	-	-	kgs	1 Lot	45000.00	45.00
VII	SPRINKLER SYSTEM				Unit	Qty	Mass/Mtr or Unit Weight in Kgs	
1	Alarm valve assembly with all accessories - 150 NB	0.4	0.15	1.2	Nos.	20	151	3.02
2	Isolation valve - 150 NB	0.4	0.15	1.2	Nos.	40	97	3.88
3	Y Strainer - 150 NB	0.6	0.15	1	Nos.	20	70	1.40
4	Flow switch	0.1	0.1	0.1	Nos.	20	10	0.20
5	Quartzoid bulb sprinkler	0.03	0.03	0.05	Nos.	10000	0.100	1.00
6	Pipe : MS Black				Nos.	50	97	4.85
6.1	150 NB	800	-	-	Mtrs.	800	28	22.40
6.2	100 NB	1300	-	-	Mtrs.	1,300	16	20.80
6.3	80 NB	1000	-	-	Mtrs.	1,000	11	11.00
6.4	65 NB	840	-	-	Mtrs.	840	9	7.56
6.5	50 NB	1200	-	-	Mtrs.	1,200	5	6.00
6.6	40 NB	2500	-	-	Mtrs.	2,500	4	10.00
6.7	32 NB	1800	-	-	Mtrs.	1,800	3	5.40
6.8	25 NB	4000	-	-	Mtrs.	4,000	3	12.00
7	Pipe fittings	-	-	-	kg	1,800	1,800	3240.00
8	Pressure gauge	0.2	0.1	0.3	Nos.	20	0.5	0.01
9	Test pressure gauge	0.2	0.1	0.3	Nos.	20	0.5	0.01
S. NO.	ITEM DESCRIPTION	LENGTH (M)	WIDTH (M)	HEIGHT (M)	Unit	Qty	Unit Weight in Kgs	
1	Foam tanks and all its accessories- 6000 ltr. Capacity	4	1.8	1.8	Nos.	4	6000	24.00
2	Foam Pumps with motor : 6 cum/hr @ Suitable head - Motor driven	1.5	0.8	0.8	Nos.	2	250	0.50
3	Foam Pumps with engine and battery and battery charger 6 cum/hr @ suitable head - Engine driven	1.5	0.8	0.8	Nos.	2	300	0.60
4	Skid type foam protection system	2.5	2.5	1	nos.	1	550	0.55
5	63mm Foam Hydrant valves	0.2	0.1	0.2	Nos.	20	35	0.70
6	Ratio controller	0.8	0.8	0.2	Nos.	6	40	0.24
7	Foam concentrate Bypass valve	0.5	0.5	0.2	Nos.	6	55	0.33
8	Foam proportioners							0.00
i	100 NB	1	0.5	0.5	Nos.	4	15	0.06
ii	80 NB	1	0.5	0.5	Nos.	2	12	0.02
9	Foam Chamber							0.00
1	100 NB	0.8	0.5	0.5	Nos.	4	25	0.10
ii	65 NB	0.7	0.5	0.5	Nos.	2	20	0.04
10	Deluge valve with accessories							0.00
i	100 NB	0.4	0.6	0.5	Nos.	4	45	0.18
ii	80 NB	0.4	0.6	0.5	Nos.	2	35	0.07
11	Gate valves							0.00
i	150 NB	0.4	0.3	0.8	Nos.	4	76	0.30
ii	100 NB	0.4	0.3	0.8	Nos.	8	44	0.35
iii	80 NB	0.4	0.3	0.8	Nos.	10	27	0.27
iv	65 NB	0.2	0.2	0.5	Nos.	8	25	0.20
v	50 NB	0.2	0.2	0.5	Nos.	8	18	0.14
vi	40 NB	0.2	0.2	0.5	Nos.	3	16	0.05
12	Solenoid operated valves	0.25	0.25	0.25	Nos.	10	10	0.10
13	Butterfly valves							0.00

i	100 NB	0.4	0.3	0.8	Nos.	4	50	0.20
ii	80 NB	0.2	0.2	0.5	Nos.	2	35	0.07
14	Y-Strainers							0.00
i	100 NB	0.4	0.3	0.8	Nos.	4	50	0.20
ii	80 NB	0.2	0.2	0.5	Nos.	2	35	0.07
15	NRV (Foam concentration line ,SS)							0.00
i	50 NB	0.4	0.3	0.8	Mtrs.	4	30	0.12
ii	40 NB	0.2	0.2	0.5	Mtrs.	2	25	0.05
16	Foam concentrate SS pipe							0.00
i	80 NB	100			Mtrs.	100	12	1.20
ii	65 NB	120			Mtrs.	120	10	1.20
iii	50 NB	100			Mtrs.	100	6	0.60
iv	40 NB	50			Mtrs.	50	5	0.25
17	Foam Solution GI pipe (Downstream of DV)							0.00
i	100 NB	450			Mtrs.	450	16	7.20
ii	80 NB	135			Mtrs.	135	12	1.62
iii	65 NB	250			Mtrs.	250	10	2.50
18	MS ERW Pipe for DV Upstream							0.00
i	150 NB	120			Mtrs.	120	28	3.36
ii	100 NB	110			Mtrs.	110	16	1.76
iii	80 NB	250			Mtrs.	250	12	3.00
19	Deluge valve local control panel	6			Nos.	6	15	0.09
20	Instrumentation							0.00
i	Pressure switch	0.1	0.1	0.1	Nos.	18	0.0045	0.00
ii	Level switch	0.1	0.1	0.1	Nos.	10	0.0025	0.00
iii	Pressure gauge	0.1	0.1	0.1	Nos.	15	0.00375	0.00
iv	Level indicator	0.8	0.05	0.05	Nos.	4	0.001	0.00
21	Power cables	1	1.5	1.5	Mtrs.	200	0.07	0.01
22	Control cables	1	1.5	1.5	Mtrs.	250	0.0875	0.02
1	Inert Gas Cylinder	2	0.4	—	Nos.	120	255	30.60
2	Discharge Hose	0.7	0.2	—	Nos.	120	0.9	0.11
3	Check Valve	0.1	0.2	—	Nos.	120	0.2	0.02
4	Contact Pressure Gauge Unit	0.1	0.1	0.1	Nos.	100	0.7	0.07
5	Release Unit with Solenoid, CPG & Actuator	0.2	0.2	0.2	Nos.	20	2.5	0.05
6	Leak / Bleeder unit	0.1	0.1	0.1	Nos.	4	0.08	0.00
7	Non Return Valve	0.1	0.1	—	Nos.	8	0.1	0.00
8	Hi-flex hoses	0.7	0.2	—	Nos.	236	0.32	0.08
9	Ball Valve with dual action pneumatic actuator	0.2	0.2	0.2	Nos.	10	17	0.17
10	Pressure Relief device	0.1	0.2	—	Nos.	2	0.37	0.00
11	Pressure Gauge	0.2	0.1	—	Nos.	2	0.6	0.00
12	Discharge Nozzle	0.1	0.1	—	Nos.	220	0.67	0.15
13	Pressure Regulator	0.2	0.2	0.1	Nos.	2	4	0.01
14	Solenoid valve	0.1	0.1	0.1	Nos.	10	0.3	0.00
15	Restrictor	0.1	0.1	0.1	Nos.	10	3.6	0.04
16	T-Piece for Pilot Line	0.1	0.1	0.05	Nos.	100	0.125	0.01
17	Cross for Pilot Line	0.1	0.1	0.1	Nos.	20	0.2	0.00
18	Pipes	—	—	—			12	0.00
i	100 NB	—	—	—	Mtrs.	504		0.00
ii	80 NB	—	—	—	Mtrs.	192		0.00
iii	65 NB	—	—	—	Mtrs.	216		0.00
iv	50 NB	—	—	—	Mtrs.	84		0.00
v	40 NB	—	—	—	Mtrs.	120		0.00
19	Fittings	—	—	—	Lot	1	2	0.00
20	Pipe Supports	—	—	—	Lot	1	2	0.00
21	Cylinder Manifolds(ASTM A 106 Gr.B	—	—	—	Mtrs.	100	45	4.50

	SCH-XXS)							
22	Pilot Line Manifold	2	0.2	0.1	No.	2	10	0.02
23	Structural Steel for Cyl. Mounting Frame Bracket	-	-	-	kg	9000	1	9.00
24	Gas Release Panel	1	0.7	0.5	Nos.	2	100	0.20
25	Ni-Cd batteries	1	1	0.5	Nos.	2		0.00
26	Pressure Operated Switch	0.2	0.2	0.1	Nos.	10	0.85	0.01
27	Pressure Relief Vent	0.8	0.8	0.1	Nos.	44	1	0.04
28	Gas Discharge EPB	0.4	0.4	0.1	Nos.	10	10	0.10
29	Inhibitor unit	0.4	0.4	0.1	Nos.	10		0.00
30	Discharge Indicator	0.4	0.4	0.1	Nos.	10		0.00
31	Pre-Discharge Indicator	0.4	0.4	0.1	Nos.	10		0.00
32	Warning sign	0.3	0.1	0.1	Nos.	20	0.1	0.00
33	Junction box	0.4	0.2	0.2	Nos.	10	10	0.10
34	Cables	-	-	-	Mtrs.	6000	0.5	3.00
35	Cable Fittings & fixtures	-	-	-	Lot	1	-	
36	Misc. for painting, primers, other finishes etc.	-	-	-	Lot	1	-	
1	Fire Alarm Panels (with Optical fibre card)	1	0.6	0.3	No.'s	4	100	0.40
2	Repeater Panels	0.3	0.5	0.1	No.'s	4	20	0.08
3	Multisensor Detectors	0.2	0.2	0.1	No.'s	2825	0.2	0.57
4	Probe Detectors	0.2	0.2	0.1	No.'s	6	0.5	0.00
5	Beam Detectors	0.1	0.1	0.2	No.'s	7	1	0.01
6	Infrared Detectors with Air Purge Unit	0.3	0.3	0.2	No.'s	100	3	0.30
7	Infrared Flame Detector	0.3	0.3	0.2	Mtrs.	22	3	0.07
8	Digital LHS cable (for Conveyors)	-	-	-	Mtrs.	30000	0.2	6.00
9	Digital LHS cable(for Cable galleries)	-	-	-	Mtrs.	20000	0.2	4.00
10	Manual Call Points(Indoor)	0.1	0.1	0.1	No.'s	296	0.2	0.06
11	Manual Call Points(Outdoor)	0.1	0.1	0.1	No.'s	40	0.25	0.01
12	Manual Call Points(Flameproof)	0.25	0.15	0.15	No.'s	118	5	0.59
13	Modules	0.1	0.1	0.1	No.'s	981	0.1	0.10
14	Gas Detection system	1	0.6	0.5	Lot	1	200	0.20
14.1	Cables	-			Meters	1500		0.00
15	Hooter cum Strobe	0.2	0.1	0.1	No.'s	208	0.25	0.05
16	Response Indicators	0.1	0.1	0.05	No.'s	540	0.15	0.08
17	Exit Sign	0.2	0.2	-	No.'s	290	0.2	0.06
18	Siren (10 km)	1	1	1	No.'s	5	50	0.25
19	PC, Printer	1	1	1	No.'s	2	50	0.10
20	UPS with battery	1	1	0.5	No.'s	1	20	0.02
21	Furniture for PC, Printer (2 nos of Table with chairs etc)		-	-	No.'s	1	50	0.05
22	Cables(2C x 1.5 sq.mm)	-	-	-	Mtrs.	150000	0.5	75.00
23	Cables(1T x 1.5 sq.mm)	-	-	-	Mtrs.	1000	0.5	0.50
24	Cables(8T x 1.5 sq.mm)	-	-	-	Mtrs.	4000	1.5	6.00
25	Fiber Optic/LAN Cable	-	-	-	Mtrs.	5000	0.0325	0.16
26	Erection hardware for cables (Power, Control & Fibre optic)	-	-	-	Lot	1	-	
27	PLC Panel	1	0.6	0.3	No.'s	1	100	0.10
28	Remote IO Panel	1	0.6	0.3	No.'s	2	50	0.10
29	Operator workstation & printer for PLC panel along with software	1	1	1	No.'s	1	50	0.05
30	UPS for PLC system	1	1	0.5	No.'s	1	20	0.02
31	Furniture for PC, Printer (2 nos of Table with chairs etc)		-	-	Lot	1	50	0.05
	Portable type							0.00
1	Pressurised water type (9 lit. cap.) '(IS:15683 operated by CO2 cartridge type)	0.7	0.2	0.2	Nos.	150	15	2.25

2	Foam type (9 lit. cap. IS: 15683)	0.6	0.2	0.2	Nos.	60	15	0.90
3	CO2 type (4.5 kg. Cap. IS: 15683)	0.8	0.15	0.15	Nos.	150	17	2.55
4	Dry Chemical powder (ABC Type, 6 kg. Cap.	0.6	0.2	0.2	Nos.	125	10	1.25
	Trolley mounted portable fire extinguishers							0.00
1	Foam type (50 lit. cap. IS: 13386)	1.3	0.4	0.4	Nos.	25	90	2.25
2	CO2 type (22.5 kg. cap. IS: 2878)	1.2	0.25	0.25	Nos.	65	70	4.55
3	Dry Chemical powder (50 kg. Cap)	1	0.5	0.5	Nos.	75	110	8.25

6655.56

Unit: PEM

Sn.	DESCRIPTION	Qty	Unit	Gr. WT. In MT	STACKABLE	TILTABLE	HAZARDOUS
1.	PA System	1	Set	10.00	YES	YES	NO
2.	Electrical testing Lab equipments & workshop Erection Inputs	1	Set	5.00	YES	NO	NO
	Station Lighting System						
3.	Lighting Distribution Board (LDB)	1	Set	43.000	YES	YES	NO
4.	Lighting Panels (LP)	1	Set	11.500	YES	YES	NO
5.	Lighting Luminaires (complete with accessories)	1	Set	56.300	YES	YES	NO
6.	Switch boxes for individual control of circuits	1	Set	1.400	YES	YES	NO
7.	Junction boxes	1	Set	15.378	YES	YES	NO
8.	Receptacles	1	Set	60.000	YES	YES	NO
9.	Ceiling fans with electronic regulators	1	Set	0.300	YES	YES	NO
10.	Emergency lighting Units	1	Set	0.120	YES	YES	NO
11.	Poles [Galvanised]	1	Set	162.500	YES	YES	NO
12.	Wires	1	Set	35.050	YES	YES	NO
13.	GI wire, flat & MS rod	1	Set	44.155	YES	YES	NO
14.	Hot dip Galvanised Rigid Steel Conduits (Heavy Duty)	1	Set	271.000	YES	YES	NO
15.	Flexible Lead coated conduit	1	Set	30.000	YES	YES	NO
16.	Structural steel	1	Set	80.000	YES	YES	NO
17.	Hume pipe	1	Set	13.000	YES	YES	NO
18.	24V supply module & lamp unit	1	Set	0.750	YES	YES	NO
19.	Lighting Mast	1	Set	16.000	YES	YES	NO
20.	Ladder	1	Set	0.160	YES	YES	NO
21.	Exit Sign	1	Set	0.80	YES	YES	NO
22.	Green Building (Service Building)	1	Set	2.510	YES	YES	NO
23.	Green Building (Administration Building)	1	Set	2.978	YES	YES	NO
24.	Green Building (Auditorium Building)	1	Set	0.412	YES	YES	NO
25.	Green Building (Canteen Building)	1	Set	0.408	YES	YES	NO
26.	Helipad Lighting	1	Set	0.030	YES	YES	NO
	Misc Pump (Horizontal)						
27.	Desalination feed pumps	1	Set	12.00	NO	NO	NO
28.	CW MU pump	1	Set	12.00	NO	NO	NO
29.	HVAC M/u Pump	1	Set	4.00	NO	NO	NO
30.	Service water system pumps	1	Set	8.00	NO	NO	NO
31.	Potable water pumps for plant	1	Set	8.00	NO	NO	NO
32.	Potable water pumps for colony	1	Set	8.00	NO	NO	NO
33.	CHP pumps	1	Set	6.00	NO	NO	NO
34.	APH WASH pumps	1	Set	6.00	NO	NO	NO
35.	AHP sealing pumps	1	Set	4.00	NO	NO	NO
36.	FGD Pumps	1	Set	6.00	NO	NO	NO
37.	DMCW TG pumps	1	Set	12.00	NO	NO	NO
38.	DMCW-SG pumps	1	Set	8.00	NO	NO	NO

39.	ACW pumps`	1	Set	18.00	NO	NO	NO
40.	DM MU pumps	1	Set	6.00	NO	NO	NO
41.	Boiler fill system	1	Set	6.00	NO	NO	NO
42.	Condensate Transfer pumps	1	Set	8.00	NO	NO	NO

Battery and Battery Chargers:

Sno	Desc	Qty	Unit	Lx W xH in Mtrs	Unit [Per Set] in Kg	Total For Station in MT	Stackable	Tilttable	Hazardous
1	220V Battery Chargers	4	Set	3.5 x 1.4 x 2.7 For Each Charger	3,500	14.000	NO	NO	YES (ACID)
2	220V DC Battery	4	Set	Each Set Comprises of Bank of 2 x170 Cells, Dimension of Each Cell is 0.6 x 0.25 x 0.5	22,680	90.720	NO	NO	YES (ACID)
3	220V Battery Chargers	4	Set	2.5 x1.0 x 2.0 For Each Charger	2,000	8.000	NO	NO	YES (ACID)
4	220V DC Battery	4	Set	Each Set Comprises of Bank of 170 CELLS, Dimension of Each Cell is 0.2X0.25X0.4	11,340	45.360	NO	NO	YES (ACID)

CABLES:

Sno	Cable Type	QTY (KM)	Aprx. WT IN Kg PER Km	WT (MT)	DRUM SIZE (Approx.)		NOS. OF DRUM (Nos.)	Stackable	Tilttable	Hazardous
					length (mm)	Width (mm)				
SCREENED CONTROL CABLES										
1	2P - 0.5(G)	125	450	56.25	720	460	125	YES	NO	NO
2	4P - 0.5(G)	75	580	43.5	770	510	75	YES	NO	NO
3	8P - 0.5(G)	315	820	258.3	920	510	315	YES	NO	NO
4	12P - 0.5(G)	45	980	44.1	1020	590	45	YES	NO	NO
5	4P - 0.5(F)	125	580	72.5	820	510	125	YES	NO	NO
6	8P - 0.5(F)	55	820	45.1	970	590	55	YES	NO	NO
7	12P - 0.5(F)	35	980	34.3	1070	590	35	YES	NO	NO
8	20P - 0.5 (F)	35	1500	52.5	1020	590	70	YES	NO	NO
LT CONTROL CABLES										
1	5C X 1.5 SQ MM	156	230	35.88	1000	680	156	YES	NO	NO
2	7C X 1.5 SQ MM	25	300	7.5	1000	680	25	YES	NO	NO
3	12C X 1.5 SQ MM	30	470	14.1	1000	680	30	YES	NO	NO
4	5C X 2.5 SQ MM	114	350	39.9	1000	680	114	YES	NO	NO
5	5C X 4 SQ MM	16	700	11.2	1000	680	16	YES	NO	NO
6	12C X 2.5 SQ MM	13	750	9.75	1000	680	13	YES	NO	NO
EPR INSULATED FIRE SURVIVAL CABLE										
1	3C-2.5	5	400	2.00	1000	680	5	YES	NO	NO
2	5C-2.5	8.5	525	4.46	1000	681	9	YES	NO	NO
3	1C-150	5.5	2325	12.79	1000	682	6	YES	NO	NO
4	1C-400	2.9	5400	15.66	1000	683	3	YES	NO	NO
5	1C-630	11	9000	99.00	1000	684	11	YES	NO	NO
6	3C-10	0.55	800	0.44	1000	685	1	YES	NO	NO
7	3C-25	0.55	1500	0.83	1000	686	1	YES	NO	NO
8	3C-35	0.65	1900	1.24	1000	687	1	YES	NO	NO
9	3C-185	0.275	8700	2.39	1000	688	1	YES	NO	NO
10	4C-16	0.55	1200	0.66	1000	689	1	YES	NO	NO
11/6.6/ 3.3 KV XLPE POWER CABLES - HT CABLE										
1	1C - 150 (11/11 KV)	60	1820	109.20	820	518	120	YES	NO	NO

2	1C - 240 (11/11 KV)	8	2590	20.72	1166	736	16	YES	NO	NO
3	1C - 300 (11/11 KV)	15	3045	45.68	1370	865	30	YES	NO	NO
4	3C - 150 (11/11 KV)	90	7980	718.20	2100	1200	150	YES	NO	NO
5	1C - 120 (3.3/ 3.3 KV)	1.7	1120	1.90	505	319	3	YES	NO	NO
6	3C - 120 (3.3/ 3.3 KV)	45	3800	171.00	2100	1200	75	YES	NO	NO
LT XLPE UNARMoured CABLE										
1.	2CX2.5	215	200	43	1000	580	215	YES	NO	NO
2.	3CX2.5	315	230	72	1000	580	315	YES	NO	NO
3.	1CX6	21	180	4	1000	580	21	YES	NO	NO
4.	1CX10	14	230	3	1000	580	14	YES	NO	NO
5.	1CX25	29	370	11	1000	580	29	YES	NO	NO
6.	1CX50	22	610	13	1000	580	22	YES	NO	NO
7.	1CX70	9	800	7	1100	600	9	YES	NO	NO
8.	1CX95	100	1100	110	1100	600	100	YES	NO	NO
9.	1CX150	4	1650	7	1250	600	6	YES	NO	NO
10.	1CX300	33	3200	106	1400	700	44	YES	NO	NO
11.	1CX500	50	5100	255	1700	1000	67	YES	NO	NO
12.	03CX10	41	620	25	1000	580	41	YES	NO	NO
13.	03CX25	32	1100	35	1100	600	32	YES	NO	NO
14.	03CX50	12	1800	22	1250	600	12	YES	NO	NO
15.	03CX70	10	2500	25	1400	700	10	YES	NO	NO
16.	03CX120	7	4000	26	1400	700	7	YES	NO	NO
17.	03CX185	7	6050	40	1700	1000	9	YES	NO	NO
18.	04CX10	35	750	26	1100	600	35	YES	NO	NO
19.	3.5CX25	23	1100	25	1100	600	23	YES	NO	NO
20.	3.5CX35	65	1400	91	1250	600	65	YES	NO	NO
21.	3.5CX70	10	2500	25	1400	700	10	YES	NO	NO
22.	3.5CX185	1	6050	7	1700	1000	1	YES	NO	NO
23.	3.5CX240	3	7850	26	1700	1000	4	YES	NO	NO

Cable Trays:

Sno	Item Description	Qty (in Mtrs.)	Wt. in kg/mtr	TOT. WT in MT	Stackable	Tilttable	Hazardous
1.	Hot dip Galvanised Ladder Type Cable Tray complete						
	600 mm wide	16500	7.5	123.75	YES	YES	NO
	450 mm wide	250	7	1.75	YES	YES	NO
	300 mm wide	2200	6.3	13.86	YES	YES	NO
	150 mm wide	600	5.6	3.36	YES	YES	NO
	100 mm wide	500	5.3	2.65	YES	YES	NO
2.	Hot dip Galvanised Perforated Type Cable Tray complete						
	600 mm wide	20000	14	280.00	YES	YES	NO
	450 mm wide	110	11.5	1.265	YES	YES	NO
	300 mm wide	3600	9	32.40	YES	YES	NO
	150 mm wide	1200	6.6	7.92	YES	YES	NO
	50mm wide	2000	5.7	11.40	YES	YES	NO

Sno	Description	Total Wt in MT	Stackable	Tilttable	Hazardous
1	Cable Tray Accessories of various sizes	100	YES	YES	NO
2	Cable Tray Support material	120	YES	YES	NO
3	FRP Cable Tray & Accessories of various sizes	2413.334	YES	YES	NO
4	Termination & Jointing Kits	2.00	YES	YES	NO
5	Trefoil Clamps	14.20	YES	YES	NO
6	Ground Earthing & Lightning Prot'n Material	208.680	YES	YES	NO
7	Fire Sealing System	575.500	YES	YES	NO
8	Below Ground Earthing Material	60.00	YES	YES	NO
9	Pile Earthing Foundation Material	636.00	YES	YES	NO

Transformers:

Sno	Rating	Qty	L in Mtr	W in Mtr	H in Mtr	CBM	Unit Wt in MT	FRT	Stackable	Tilttable	Hazardous
LV Service (11KV / 433V) & AUX. SERVICE (11KV / 3.5 KV) Transformers											
1.	630 KVA	2.00	3.00	3.00	3.00	27.00	3.50	54.0	NO	NO	NO
2.	1 MVA	2.00	3.00	3.00	3.00	27.00	4.00	54.0	NO	NO	NO
3.	1.6 MVA	22.00	3.00	3.00	3.00	27.00	5.50	594.0	NO	NO	NO
4.	2 MVA	18.00	3.50	3.20	3.00	33.60	6.50	604.8	NO	NO	NO
5.	2.5 MVA	2.00	4.00	3.20	3.00	38.40	7.00	76.8	NO	NO	NO
6.	3.5 MVA	2.00	3.50	3.20	3.00	33.60	8.00	67.2	NO	NO	NO
7.	5 MVA	2.00	3.56	3.20	3.05	34.75	8.50	69.5	NO	NO	NO
8.	6.3 MVA	4.00	4.00	3.20	3.00	38.40	9.00	153.60	NO	NO	NO
9.	8 MVA	2.00	4.20	3.60	3.20	48.38	9.50	96.77	NO	NO	NO

Sn	Description	Qty	L in Mtr	W in Mtr	H in Mtr	CBM	WT/pkg in MT	Stackable	Tilttable	Hazardous
	Control Valves									
1.	DEA Overflow CV TO LPDFT, DRV-62	2	0.600	0.500	2.000	0.600	28.00	NO	NO	NO
2.	HPH-7A NRML DRN TO DEA CV, DRV-15	2	0.600	0.500	2.000	0.600		NO	NO	NO
3.	HPH-7A EMER DRN CV, DRV-18	2	0.600	0.500	2.000	0.600		NO	NO	NO
4.	HPH-7B NRML DRN TO DEA CV, DRV-22	2	0.600	0.500	2.000	0.600		NO	NO	NO
5.	HPH-7B EMER DRN CV, DRV-25	2	0.600	0.500	2.000	0.600		NO	NO	NO
6.	HPH-8A NORM DRN TO HPH-7A CV, DRV-2	2	0.600	0.600	2.300	0.828		NO	NO	NO
7.	HPH 8A EMER DRN CV DRV5	2	0.600	0.500	2.000	0.600		NO	NO	NO
8.	HPH-8A NRML DRN TO HPH-7A CV, DRV-8	2	0.600	0.600	2.300	0.828		NO	NO	NO
9.	HPH-8B EMER DRN CV, DRV-11	2	0.600	0.500	2.000	0.600		NO	NO	NO
10.	HPH 9A DRAIN TO HPH 8A CV DRV 53	2	0.600	0.500	2.000	0.600		NO	NO	NO
11.	HPH9A EMER DRN CV DRV56	2	0.600	0.500	2.000	0.600		NO	NO	NO
12.	HPH 9B NRML DRN TO HPH 8B CV, DRV-59	2	0.600	0.500	2.000	0.600		NO	NO	NO
13.	HPH-9B EMER DRN CV, DRV-62	2	0.600	0.500	2.000	0.600		NO	NO	NO
14.	LPH2 ALT DRN TO LPFT CV DRV37	2	0.700	0.500	2.300	0.805		NO	NO	NO
15.	LPH3 EMER DRN TO LPFT CV DRV31	2	0.500	0.500	1.800	0.450		NO	NO	NO
16.	LPH4 DRAIN TO LPH3 CV, DRV-65	2	0.400	0.500	1.500	0.300		NO	NO	NO
17.	LPH4 EMER DRN TO LPFT CV DRV68	2	0.400	0.500	1.300	0.260		NO	NO	NO
18.	LPH5 NORM DRN TO LPH4 CV DRV61	2	0.400	0.500	1.300	0.260		NO	NO	NO
19.	LPH5 EMER DRN TO LPFT CV, DRV-71	2	0.400	0.500	1.300	0.260		NO	NO	NO

20.	AUX STM PEGGING CONTROL VLV	2	1.300	0.600	3.000	2.340		NO	NO	NO
21.	CRH PEGGING STM CONTROL VLV	2	2.000	0.900	3.000	5.400		NO	NO	NO
22.	ERGENCY MAKE UP CV, DMV-78	2	0.600	0.500	2.000	0.600		NO	NO	NO
23.	NORMAL MAKE UP CV, DMV-43	2	0.400	0.500	1.300	0.260		NO	NO	NO
24.	GSC MIN FL REC CV CDV39	2	1.865	0.700	1.300	1.697		NO	NO	NO
25.	GLAND SEAL COND CV, CDV-72	2	0.200	0.400	1.100	0.088		NO	NO	NO
26.	COND EXCES DUMP CV, CDV43	2	1.865	0.700	1.300	1.697		NO	NO	NO
27.	MAIN COND CV CDV22	2	1.200	0.500	3.000	1.800		NO	NO	NO
28.	MAIN COND CONTROL STATION VLV, CDV-25	2	1.200	0.500	3.000	1.800		NO	NO	NO
29.	LPH-3 LEVEL CONTROL CV, DRV-77	2	0.500	0.500	1.800	0.450		NO	NO	NO
30.	FEED CONTROL VALVE, FDV-14	2	1.500	0.500	3.000	2.250		NO	NO	NO
31.	Flow Element - Nozzle	2	4.0	0.8	0.8		10.00	YES	YES	NO
32.	Flow Element - Orifice	2	0.5	1.0	1.0		6.00	YES	YES	NO
33.	Ultrasonic Flow Meters	2	3.0	0.8	0.85		0.05	NO	NO	NO
34.	Neutral Grounding Resistor	2	1.2	1.0	1.8		4.80	NO	NO	NO
35.		2	1.2	1.0	2.5		1.50	NO	NO	NO
36.	Generator Circuit Breaker	2	7.0	6.0	4.0		15.00	NO	NO	NO
37.	Chemical Dosing System	2	4	5	3.5		4	NO	NO	NO
38.		2	3	2	3.5		2			
39.	Single Girder EOT / HOT Misc. Cranes	5	12	3	2.5		80.00	NO	NO	NO
40.	Fire Fighting							NO	NO	NO
41.	Truck	2	10.00	3.00	4.00		34.00	NO	NO	NO
42.	Ambulance car	1	5.00	3.00	2.50		10.00	NO	NO	NO
43.	Fire Fighting and Rescue Equipments	1					2.00	NO	NO	NO
44.	Chain Pulley Block	1	1.00	1.00			3.00	NO	NO	NO
45.	Electric Hoist	1	2.00	2.00			30.00	NO	NO	NO
46.	Lube Oil Transfer Pumps	2	1.50	0.60			0.30	NO	NO	NO
47.	Fork Lift Truck	14	6.00	2.50	3.00		7.14	NO	NO	NO
48.	Mobile Pick Up & Carry Crane	1	12.00	3.00	3.50		10.00	NO	NO	NO
49.	Oxygen Dosing System	4	2.00	1.00	2.00		0.50	NO	NO	NO
50.	Hydraulic Mobile Crane	3	15.00	7.00	4.00		83.33	NO	NO	NO
51.	Mechanical Piping Layout									
52.	Gun Metal Valves	6	1.00	1.00	1.00		0.050	YES	YES	NO
53.	Ball Valves	10	1.00	1.00	1.00		0.045	YES	YES	NO
54.	Steam Traps	8	1.00	1.00	1.00		0.326	YES	YES	NO
55.	Air Traps	4	1.00	1.00	1.00		0.029	YES	YES	NO
56.	Air Release Valves	68	0.80	0.60	0.60		0.167	YES	YES	NO
57.	Thermal Insulation - R-Mattresses/P-Secn	3800	3.00	2.00	1.50		3.500	STACKABLE UPTO 3M HEIGHT	NO	NO
58.	Thermal Insulation - Ancillary Material	1024	0.80	0.80	0.30		3.250	YES	YES	NO
59.		420	0.50	0.50	0.50		1.000	YES	YES	NO

60.	Butterfly Valves (Steam Service)	12	3.00	2.50	2.00		0.150	YES	NO	NO
61.	M.E. Bellows	24	2.50	2.50	1.50		0.063	YES	NO	NO
62.		24	2.00	2.00	1.00		0.556	YES	NO	NO
63.		12	1.50	1.50	1.50		0.100	YES	NO	NO
64.		16	1.00	1.00	1.00		1.733	YES	NO	NO
65.	Steel Gate/Globe/Nr Valves(Water System)	36	1.50	1.50	1.00		0.050	YES	YES	NO
66.		8	1.00	1.00	1.00		0.045	YES	YES	NO
67.	Aluminum Sheets/Coils	150	1.50	1.50	1.20		0.326	NO	NO	NO
	Mechanical System Engineering									
68.	Misc. Pumps (Vertical)	5	2.0	2.0	2.0		8	NO	NO	NO
69.	Sump Pumps/Submersible Pumps	24	1.0	1	1		2	NO	NO	NO
70.	COLTCS	4	4	3	3		14.00	NO	NO	NO
71.	Self Cleaning Strainers	4	2.5	1.5	2.5		4.00	NO	NO	NO
72.	Heat Exchangers(Plate Type)	10	4	2	4		12.00	NO	NO	NO
73.	AUX PRDS									
74.	HC-PRV	1	4	2.2	0.5		1.70	NO	NO	NO
75.	LC-PRV	1	2	1	0.5		1	NO	NO	NO
76.	LT DESH	1	0.8	0.6	0.5		1	NO	NO	NO
77.	Spray to LT DESH	1	2	0.8	0.5		1	NO	NO	NO
78.	Spray to Combined PRDS Control Valve	1	1.6	0.5	0.4		1	NO	NO	NO
79.	Travelling Water Screen	5	2	2	2		4	NO	NO	NO

Unit : EDN

SI No	Item Description	No of Pkgs	L in mtr	W in mtr	H in mtr	Vol in Cubic Mtr	Wt per pkg in MT	FRT
1	Control Panels Type 1	2	4.2	1.05	2.7	12	2.80	23.81
2	Control Panels Type 2	4	3.95	1.05	2.7	11	3.50	44.79
3	Control Panels Type 3	16	3.2	1.05	2.7	9	2.80	145.15
4	Control Panels Type 4	68	2.45	1.05	2.7	7	2.10	472.31
5	Control Panels Type 5	23	1.7	1.05	2.7	5	1.40	110.85
6	Control Panels Type 6	35	0.95	1.05	2.7	3	0.70	94.26
7	Cables	600	1	1	1	1	0.90	600.00
8	Miscellaneous/ Loose Items	30				2	8	225.00
9	Pipes	20				2.5	8.13	162.50
10	Enclosures	150				1	1.87	280.00
11	SWAS	30				0.83	1.00	30.00
12	Structural Steel/ Erection Material	20				1.5	4.10	82.00
13	Field Instruments	20				1	1.00	20.00
14	UPS & Batteries	30				1	2.33	70.00

15	Misc Items	40				3	2.50	120.00
		1088						2481

Unit: Ranipet

Assembly Name	Length in meter	Width in meter	Height in meter	Wt/Blr (MT)
List of ODC consignment of APH				
Module Assy	6.70	2.00	3.15	1300.00
Rotor Housing Main Pedestals	6.55	3.40	1.05	38.00
Rotor Housing Primary Pedestal	5.25	3.30	0.90	9.00
Rotor housing Panels	6.70	3.30	0.50	25.00
Hot End Centre Section & Sec. plate	16.00	3.53	2.00	65.00
Hot End Primary Center Section	6.50	3.70	2.00	19.50
Hot End Corner Ducts	6.80	3.40	2.00	31.00
Cold End Centre Section & sec. plate	16.00	3.53	3.20	153.00
Cold End Primary Centre Section	6.80	3.70	3.20	25.00
Cold End corner ducts	6.80	3.40	3.20	48.00
ODC Weight (in MT)				1713.50
Non ODC Weight (in MT)				1810.50
List of ODC consignment of ESP				
GAS DISTRIBUTOR ASSEMBLY(with 3rd screen)	13.50	1.00	1.00	60.00
COLLECTING ELECTRODE-1.25 mm thick - Mild Steel	15.20	0.90	0.90	922.00
ESP ROOF BEAM	13.00	2.10	2.00	184.00
CASING (STRUCTURE)	13.50	2.50	1.50	290.00
CASING(SHELL, SIDE PANELS, GABLES & GD HOUSING)	13.50	3.00	2.00	430.00
ODC Weight (in MT)				1886.00
Non ODC Weight (in MT)				9619.00
List of ODC consignment of Fans				
Suction Box in 1 Part	2.25	4.00	4.00	30.00
Fan Hosing in 1 part	2.50	3.50	3.50	
Diffuser in 1 Part	4.00	4.00	4.00	
Inlet cone assembly in 1 Part	1.00	4.00	4.00	
Suction Box Part VI	2.25	5.30	2.70	48.00
Suction Box Part VII	2.25	5.30	2.70	
Fan housing Part I	3.00	4.75	2.50	
Fan housing Part II	3.00	4.75	2.50	
Fan housing Part III	1.20	4.75	2.50	
Fan housing Part IV	1.20	4.75	2.50	
Diffuser Part I	3.50	5.00	5.00	
Diffuser Part II	2.25	5.50	5.50	
ODC Weight (in MT)				78.00
Non ODC Weight (in MT)				697.00
List of ODC consignment of Gates & Damper				
DAMPER-SA SCAPH INLET	4.73	5.00	1.00	12.36
DAMPER-SA SCAPH OUTLET	4.73	5.00	1.00	12.36
DAMPER -SA SCAPH BYPASS	4.73	5.00	1.00	12.36
GATE-PA FAN OUTLET	8.59	3.64	1.00	16.00
DAMPER-PA APH INLET	3.53	3.55	1.00	8.80
DAMPER-SA APH OUTLET	4.71	4.55	1.00	29.72
DAMPER-PA APH OUTLET	3.88	4.00	1.00	10.75
DAMPER-HOT AIR TO MILL	1.80	3.10	1.00	7.80
GATE-GAS AH INLET	12.90	5.00	1.00	88.00
GATE-GAS AH OUTLET	12.90	3.80	1.00	62.00
GATE-ESP INLET	8.46	3.55	1.00	54.73
GATE-ESP OUTLET	8.46	3.55	1.00	54.73
GATE-ID FAN INLET	15.39	3.95	1.00	66.18
GATE-ID FAN OUTLET	14.39	3.80	1.00	60.36
ODC Weight (in MT)				496.15
Non ODC Weight (in MT)				1442.00
FGD Tentative Total design weight (in MT)				6554.00
Desalination Tentative Total design weight (in MT)				2681.00

Grand total Weight (All Equipments)				31150.80
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Unit : CFP

Sno	Item Description	UOM	No of Pkgs	Length in meter	Width in meter	Height in meter	Volume in Cubic Mtr	Unit Weight in MT
1	TENTATIVE SHIPPING LIST OF IPBD							
2	ASSY.OF ENCL.&CONDUCTOR (MAIN)	NO	66	5.50	1.90	1.90	19.855	2000
3	ASSY.OF ENCL.&CONDUCTOR (DELTA)	NO	56	5.50	1.40	1.40	10.78	1000
4	ASSY.OF ENCL.&CONDUCTOR (TAP-OFF)	NO	34	5.50	1.00	1.00	5.5	500
5	ASSY.OF CHAMBER	NO	2	6.30	2.70	2.00	34.02	2000
6	ASSY.OF STAR DUCT	NO	2	6.30	2.70	2.00	34.02	2000
7	MAKE UP PIECE ASSY. (MAIN),FOR DIA 1700	NO	9	2.00	1.90	0.80	3.04	500
8	MAKE UP PIECE PLAIN (MAIN), FOR DIA 1700	NO	6	2.00	1.90	0.80	3.04	500
9	MAKE UP PIECE WITH WINDOW (DELTA),DIA 1200	NO	6	2.00	1.40	0.80	2.24	350
10	MAKE UP PIECE PLAIN (DELTA), DIA 1200	NO	4	2.00	1.40	0.80	2.24	300
11	MAKE UP PIECE WITH WINDOW (TAP-OFF),DIA 780	NO	6	2.00	1.00	0.80	1.6	180
12	MAKE UP PIECE PLAIN (TAP-OFF), DIA 780	NO	4	2.00	1.00	0.80	1.6	130
13	BUSDUCT ACCESSORIES	SET	120	1.50	1.50	1.50	3.375	500
14	ASSY. OF SPVT CUBICLE 3-PHASE SET	SET	6	3.00	2.50	1.00	7.5	1000
15	ASSY. OF N.G.CUBICLE	SET	2	2.40	2.20	1.90	10.032	1300
16	N.G.T.	NO	2	1.20	1.20	0.80	1.152	400
17	N.G.R.	NO	2	1.20	1.20	0.80	1.152	300
18	ENCLOSURE SUPPORT STRUCTURE	Kg	160	6.00	1.50	1.50	13.5	600
19	TENTATIVE SHIPPING LIST OF SPBD							
20	ASSY.OF ENCL.&CONDUCTOR	NO	1400	4.00	2.00	0.80	6.4	2000
21	BUSDUCT ACCESSORIES	SET	400	1.50	1.50	1.50	3.375	500
22	ENCLOSURE SUPPORT STRUCTURE	Kg	160	6.00	1.50	1.50	13.5	600

Unit: BPL

S. No.	Scope	Qty. Nos	Aprx. dimn. (in mm) (LXWXH)	Aprox. Unit Wt.	Tentative Dispatch Schedule Month-Year	Stackable Yes/No	Tilttable Yes/No	Hazardous
1. RE Joints								
• RE Joints (Compensation Type) – 2600 NB								
	Flange Assembly (CW/Box Side)	16	4000 X 4000 X 450	3.9 MT	Apr-19	No	Yes	No
	Flange Assembly (Piping Side)	16	4000 X 4000 X 450	3.9 MT	Apr-19	No	Yes	No
	Bare Bellow with retaining Ring	24	3300 X 3300 X 450	0.4 MT	Apr-19	No	Yes	No
• RE Joints (Conventional Type) – 2500 NB								
	Bare Bellow with retaining Ring	5	4000 X 4000 X 450	0.4 MT	Apr-19	No	Yes	No
	Flange 110TK	10	3300 X 3300 X 150	1.6 MT	Apr-19	No	Yes	No
2. Flash Tank								
	Flash Tank - A	2	5100 X 3500 X 3500	7.7 MT	Jun-19	No	No	No
	Flash Tank - B	2	5100 X 3500 X 3500	7.9 MT	Jun-19	No	No	No
	Unit Flash Tank	2	2600 X 1700 X 1700	1.5 MT	Jun-19	No	No	No
3. Misc. Tanks								
	Clean Oil Tank	1	4500 X 3500 X 3000	8.5 MT	Jun-19	No	No	No
	Dirty Oil Tank	1	4500 X 3500 X 3000	8.5 MT	Jun-19	No	No	No
	Oil Unloading Vessel	1	2000 X 1000 X 500	0.6 MT	Jun-19	No	No	No
	DMCW Tank	1	O/D 2000 X 7150	6.0 MT	Jun-19	No	No	No
4. BF Valves								
	3750 Dia Electrical	8	5500 X 4500 X 2000	27 MT	Apr-19	Yes	Yes	No
	2600 Dia Electrical	12	3800 X 3200 X 800	18 MT	Apr-19	Yes	Yes	No
	2500 Dia Electrical	2	3800 X 3200 X 800	13.6 MT	Apr-19	Yes	Yes	No
	2500 Dia Hydraulic	5	3800 X 3200 X 800	13.6 MT	Apr-19	Yes	Yes	No

•	1800 Dia Electrical	2	2800 X 2000 X 750	6.7 MT	Apr-19	Yes	Yes	No
•	1400 Dia Electrical	2	2000 X 1800 X 500	4.1 MT	Apr-19	Yes	Yes	No
•	1100 Dia Electrical	1	1900 X 1500 X 400	3.7 MT	Apr-19	Yes	Yes	No
•	900 Dia Electrical	17	1800 X 1200 X 500	2.0 MT	Apr-19	Yes	Yes	No
•	900 Dia Manual	8	1800 X 1200 X 500	2.0 MT	Apr-19	Yes	Yes	No
•	700 Dia Manual	3	1600 X 1100 X 400	1.3 MT	Apr-19	Yes	Yes	No
•	600 Dia Electrical	19	1500 X 900 X 600	0.85 MT	Apr-19	Yes	Yes	No
•	600 Dia Manual	1	1500 X 1100 X 400	0.83 MT	Apr-19	Yes	Yes	No
•	600 Dia (16ATA) Electrical	8	1500 X 900 X 600	1.1 MT	Apr-19	Yes	Yes	No
•	600 Dia (16ATA) Manual	14	1500 X 900 X 600	0.8 MT	Apr-19	Yes	Yes	No
•	500 Dia Electrical	6	1300 X 800 X 350	0.7 MT	Apr-19	Yes	Yes	No
•	500 Dia Manual	11	1300 X 800 X 350	0.7 MT	Apr-19	Yes	Yes	No
•	450 Dia Electrical	6	1300 X 800 X 350	0.5 MT	Apr-19	Yes	Yes	No
•	450 Dia Manual	26	1300 X 800 X 350	0.5 MT	Apr-19	Yes	Yes	No
•	450 Dia (16ATA) Manual	4	1300 X 800 X 800	0.8 MT	Apr-19	Yes	Yes	No
•	400 Dia Electrical	3	1100 X 600 X 300	0.4 MT	Apr-19	Yes	Yes	No
•	400 Dia Manual	12	1100 X 600 X 300	0.4 MT	Apr-19	Yes	Yes	No
5. Transformers								
•	315 MVA GT	7	6000 X4800 X 4600	187 MT	Oct-19	No	No	Yes
•	Inter Connecting Transformer (ICT)	2	11500 X 4500 X 4600	235 MT				
•	Reactor 80 MVAR	1	6800 X 3400 X 3400	80 MT				
•	Reactor 63 MVAR	2	6500 X 3400 X 3400	75 MT				
•	NGR	2	2200 X 1600 X 2600	4 MT				
6. HT Motors								
•	FD Fan Motor	4	3800 X 3200 X 1820	12 MT	Jun-19	No	No	No
•	PA Fan Motor	4	4615 X 3420 X 2020	14.8 MT	Jun-19	No	No	No
•	ID Fan Motor	4	3650 X 3425 X2160	19 MT	Jun-19	No	No	No
•	CEP Motor	6	3225 X 1800 X 3500	9 MT	May-19	No	No	No
•	BFP Motor	4	4610 X 4400 X 3550	42 MT	May-19	No	No	No
•	Mill Motor	12	2910 X 2710 X 1430	8 MT	May-19	No	No	No
•	DMCW – TG Motor	6	2000 X 1800 X 1100	2.8 MT	Jul-19	No	No	No
•	DMCW – SG Motor	4	2000 X 1800 X 1100	2.8 MT	Jul-19	No	No	No
•	ACW Motor	6	2000 X 2000 X 1100	2.8 MT	Jul-19	No	No	No
•	Compressor Air System Motor	7	2000 X 1800 X 1100	2.8 MT	Jul-19	No	No	No
•	Storm Water Pump Motor	5	2000 X 1800 X 1100	2.8 MT	Jul-19	No	No	No
•	CW MU Pump Motor	3	2000 X 1800 X 1100	2.8 MT	Jul-19	No	No	No
•	RO DM Plant Motor	6	2000 X 1800 X 1100	2.8 MT	Jul-19	No	No	No
•	CWP Motor	5	5100 X 4650 X 4265	55 MT	Jul-19	No	No	No
7. Switchgears								
•	Switchgear	221	1900 X 2600 X 3000	3.00 MT	Oct-19	No	No	No
8. Protection Panels								
•	Protection Panels	4	1000 X 1000 X 2295	0.50 MT	Oct-19	No	No	No

Unit: EMRP

Sno	Item Description	Length in meter	Width in meter	Height in meter	Volume in CBM	Gross weight in MT	FRT
1	Elevator-1 Box-1	6	2.5	2.5	37.5	8	37.5
2	Elevator-1 Box-2	6	2.5	2.5	37.5	8	37.5
3	Elevator-2 Box-1	6	2.5	2.5	37.5	8	37.5
4	Elevator-2 Box-2	6	2.5	2.5	37.5	8	37.5
5	Elevator-3 Box-1	6	2.5	2.5	37.5	8	37.5
6	Elevator-3 Box-2	6	2.5	2.5	37.5	8	37.5
7	Elevator-4 Box-1	6	2.5	2.5	37.5	8	37.5
8	Elevator-4 Box-2	6	2.5	2.5	37.5	8	37.5
							300.00

Unit: EPD

Sno	Item Description	No of Boxes	Length in meter	Width in meter	Height in meter	CBM per box	Tot Gr. Wt. in MT	FRT
1	LT Switchgear and Bus Duct	580	2	1.8	2.6	9.36	700	5429
2	Ceramic Lined Items						550	550

Unit: TBG

Item Description	Length in meter	Width in meter	Height in meter	CBM	Gr. Wt in MT
400kV GIS	12.09	2.34	2.32	7378	1020.00
230kV GIS	12.09	2.34	2.32	3000	66.00

Sn	Equipment	Qty	Total Weight in (MT)
1.	220kV Cables & Accessories	3000M	110.83
2.	390kV Surge Arresters	34.00	12.58
3.	210kV Surge Arresters	16.00	2.40
4.	120kV Surge Arresters	3.00	0.30
5.	400kV Post Insulator	17.00	5.10
6.	220kV Post Insulator	10.00	1.68
7.	120kV Isolator (1-Ph)	2.00	0.46
8.	220V Battery Bank	2.00	7.47
9.	48V Battery Bank	2.00	1.50
10.	220V Battery Charger	2.00	0.70
11.	48V Battery Charger	2.00	1.25
12.	AC DC Boards	5.00	14.00
13.	ACSR Conductor	5437.50	12.08
14.	Aluminium Tube	1000.00	9.06
15.	Shield Wire	1000.00	0.99
16.	Clamps & Connectors	1.00	10.00
17.	Cu. Earthing Flats, Pipe Electrodes	1.00	56.00
18.	Illumination	1.00	8.00
19.	Cable Trench Material	1.00	50.00
20.	LT Transformer	2.00	6.40
21.	Equipment Fixing Hardware	1.00	0.50
22.	GI Pipe	1.00	2.50
23.	400kV CT	6.00	3.42
24.	400kV WT	4.00	3.56
25.	220kV WT	4.00	3.56
26.	120kV CT	2.00	1.32
27.	Marshalling Kiosks & Junction Boxes		3.50
28.	Power & Control Cables		150.00
29.	ACVS		1.50
30.	FF System		3.00
31.	EOT Cranes		20.00
32.	Structure Hardware		25.00
33.	Foundation Bolts		30.00

Unit : PC

Sno	Description	WT in MT
1	HT-WELDING ELECTRODES-1	0.03
2	HT-H AND S FOR HYDRO TEST	0.35

3	HT-MS FROM SUPERHEATER TO BOILER STOP VALVE	2.10
4	LU-VLH AND CLH for SG PPG -HERP	1.20
5	LU-H AND S FOR LIGHT UP STEAM LINE	6.30
6	LU-SUB DELIVERY VALVES FOR LIGHT UP	0.70
7	LU-H AND S FOR LIGHT UP - NON STEAM LINES	1.30
8	LU-TRAY TYPE DEAERATOR BELOW 100 cuM/HR	23.00
9	LU-PLATFORM & STAIRS FOR FEED TANK & DEARTR	2.80
10	LU-FUEL OIL SUPPLY AND RETURN PIPING	2.50
11	LU-BOILER FEED PUMP SUCTION	0.75
12	LU-BOILER FEED PUMP RECIRCULATION	0.27
13	LU-BOILER FEED DISCHARGE PIPING	0.90
14	LU-AUX STEAM TO DEAERATING HEATER	3.50
15	LU-INTERMITTENT BLOW DOWN EXPANDER-D1500 MM	2.40
16	LU-CBD AND EMERGENCY DRUM DRAIN	0.70
17	LU-BOILER INTEGRAL PIPING DRAINS	0.70
18	LU-LP PIPING DRAINS - SG SCOPE	0.25
19	LU-DEMINERALISED WATER SYSTEM	2.80
20	LU-SG AUX COOLING WATER UNIT SYSTEM	0.70
21	LU-HIGH PRESSURE DOSING PIPING	0.17
22	LU-SENSING ELEMENTS FOR NON-STEAM LINES	0.10
23	LU-LOW PRESSURE DOSING PIPING	0.10
24	LU-SERVICE AIR FOR INDIVIDUAL UNITS	0.30
25	LU-SENSING ELEMENTS FOR STEAM LINES	0.25
26	LU-INSTRUMENT AIR FOR INDIVIDUAL UNIT	0.55
27	LU-ERECTION MATERIALS FOR INSTRUMENTS	0.20
28	LU-DEAERATING HEATER OVER FLOW AND DRAIN	0.60
29	LU-IBD TANK VENT TO ATMOSPHERE	0.85
30	LU-BOILER FEED PUMP	0.60
31	LU-HIGH PRESSURE DOSING SYSTEM	1.00
32	LU-MINERAL WOOL MATTRESS	3.50
33	LU-ALUMINIUM CLADDING FOR INSULATION	2.00
34	LU-LOW PRESSURE DOSING SYSTEM	1.00
35	LU-SEALING COMPOUND FOR INSL	0.03
36	LU-DIRECT GAUGES FOR STEAM LINES	0.20
37	LU-DIRECT GAUGES FOR NON-STEAM LINES	0.20
38	SB-FIX COM FOR MISCELLANEOUS PPG INSULATION	0.80
39	LU-H AND S FOR LP PIPING	200.00
40	LU-MAIN CIRCULATION WATER PIPING	5156.00
41	LU-SERVICE WATER PIPING	1566.00
42	LU-FUEL OIL SUPPLY AND RETURN PIPING	7.00
43	LU-DEMINERALISED WATER SYSTEM	41.00
44	LU-SERVICE AIR-COMP SUCT AND DIS TO RECEI	44.00
45	LU-INST AIR COMP SUC AND DIS TO RECEIVER	26.00
46	LU-DRINKING WATER PIPING	34.00
47	HT-MISC ERECTION MATLS	1.00
48	HT-WELDING ELECTRODES-1	10.00
49	HT-VLH AND CLH for MS PPG UPTO MSV -HERP	6.00
50	HT-H AND S FOR HYDRO TEST	28.00
51	HT-MS FROM SUPERHEATER TO BOILER STOP VALVE	135.00
52	LU-LOCAL CONTROL EQPT FOR NON-STEAM LINES	0.20
53	LU-TEST THERMOWELLS	0.70
54	LU-INSTRUMENTATION FOR STARTUP SYSTEM	0.50
55	LU-SPECIAL TANKS AND VESSELS	45.00
56	LU-COOLING WATER PUMP	1.00
57	LU-CW STORAGE TANK 16-25 CUM	7.00
58	LU-MINERAL WOOL MATTRESS	60.00
59	LU-ALUMINIUM CLADDING FOR INSULATION	20.00
60	LU-SEALING COMPOUND FOR INSL	0.50
61	LU-DIRECT GAUGES FOR STEAM LINES	1.10
62	LU-DIRECT GAUGES FOR NON-STEAM LINES	1.00
63	LU-VLH AND CLH for SG PPG -HERP	16.00
64	LU-H AND S FOR LP PIPING	15.00
65	LU-VLH AND CLH for BFD PPG -HERP	10.00

66	LU-H AND S FOR BOILER LIGHT UP - TG	47.00
67	LU-H AND S FOR LIGHT UP STEAM LINE	79.00
68	LU-CLEAN DRAIN FLASH TANK - DIA 1500 MM	3.00
69	LU-H AND S FOR TEMPORARY PIPING ACID AND AL	15.00
70	LU-SUB DELIVERY VALVES FOR LIGHT UP	7.00
71	LU-FUEL OIL SUPPLY AND RETURN PIPING	90.00
72	LU-ACID CLEANING PIPING-TEMPORARY	190.00
73	LU-SERVICE AIR-COMP SUCT AND DIS TO RECEI	10.00
74	LU-INST AIR COMP SUC AND DIS TO RECEIVER	10.00
75	LU-LOW PRESSURE DOSING PIPING	2.50
76	LU-SERVICE AIR FOR INDIVIDUAL UNITS	20.00
77	LU-INSTRUMENT AIR FOR INDIVIDUAL UNIT	50.00
78	SB-H AND S FOR CRITICAL PIPING - STEAM LINE	295.00
79	LU-MAIN CIRCULATION WATER PIPING	312.00
80	LU-SERVICE WATER PIPING	35.00
81	LU-TG AUX COOLING WATER	140.00
82	LU-DRAIN FROM UNLISTED EQPT/VESSEL-SG SCOPE	16.00
83	LU-DEMINERALISED WATER SYSTEM	10.00
84	LU-SG AUX COOLING WATER UNIT SYSTEM	55.00
85	LU-BOILER WATER WASH TO AND FROM UNIT	20.00
86	LU-FIRE WATER-OTHER AREAS	28.00
87	LU-BOILER INTEGRAL PIPING DRAINS	17.00
88	LU-HP PIPING DRAINS - SG SCOPE	20.00
89	LU-LP PIPING DRAINS - SG SCOPE	5.00
90	LU-SCAPH DRAINS	4.00
91	LU-SPRAY WATER TO HPBP	7.00
92	LU-SPRAY WATER FROM BFP INTERSTAGE	10.50
93	LU-DEAERATING HEATER OVER FLOW AND DRAIN	7.00
94	LU-BOILER FEED PUMP TO HPH INCLUDING BYPASS	205.00
95	LU-BFD FROM FINAL HPH TO SG TP	115.00
96	LU-BOILER FEED PUMP SUCTION	43.00
97	LU-BOILER FEED PUMP RECIRCULATION	65.00
98	LU-BFD BETWEEN HTRS AND GROUP PROTECTION	98.00
99	LU-ERECTION MATERIALS FOR INSTRUMENTS	1.00
100	LU-DEAERATOR SAFETY VALVE EXHAUST TO ATM	5.00
101	LU-CONDENSATE DUMP FROM HEADER	0.80
102	LU-AUX STEAM TO DEAERATING HEATER	6.50
103	LU-AUX STEAM HEADER SV EXHAUST	6.00
104	LU-AUX STEAM TO AH SOOT BLOWERS	6.00
105	LU-CONDENSATE SUCTION	10.00
106	LU-CD FROM PUMP TO LPH1/DC INLET TEE AND RE	47.00
107	LU-CD FROM LPH1/DC INLET TEE TO TG TP	33.00
108	LU-CD FROM TG TP TO DEAERATING HEATER	15.10
109	LU-CONDENSATE FOR SEALING OF VACUUM	3.00
110	LU-AUX STEAM HEADER	10.00
111	LU-AUX STEAM HEADER INTERCONN BETWEEN UNITS	65.00
112	LU-AUX STEAM TO SCAPH	12.50
113	SB-HRH FROM REHEATER TO INTERCEPTOR VALVE	427.00
114	SB-CRH FROM TURBINE TO REHEATER	264.00
115	SB-HPBP VALVE TO CRH PIPING	27.00
116	SB-LPBP VALVE UPSTREAM AND DOWNSTREAM	111.00
117	SB-AUX STRUCTURE FOR CRITICAL PPG AND CD B	200.00
118	SB-MS FROM BOILER STOP VALVE TO ESV	550.00
119	SB-MS HEADER TO AUX PRDS	6.00
120	SB-MS HEADER TO HPBP VALVE	34.00
121	SB-FIX COM FOR MISCELLANEOUS PPG INSULATION	10.00
122	SB-VLH AND CLH Critical PPG -HERP	60.00
123	SB-H AND S FOR TEMPORARY PIPING - STEAM BLO	11.00
124	SB-STEAM BLOWING PIPING-TEMPORARY	185.00
125	SB-STEAM TO BFP DRIVE TURBINE	7.00
126	SB-CRH HEADER TO AUX.PRDS	3.20
127	SY-CONDENSATE PUMP	3.00
128	SY-VLH AND CLH for TG PPG -HERP	11.00

129	SY-PERFORMANCE GUARANTEE TEST MATERIALS	1.50
130	LU-DRINKING WATER PIPING	20.00
131	LU-LUBE OIL PIPING SYSTEM	10.00
132	SB-H AND S FOR SYNCHRONISATION - TG	56.00
133	SY-LP CONDENSATE PIPING WITHIN TG HALL FOR	17.00
134	SY-HP FLASH TANK VENT TO CONDENSER	2.50
135	SY-LP FLASH TANK VENT TO CONDENSER	4.00
136	SY-LP FLASH TANK DRAIN TO COND	2.60
137	SY-LP HEATER-1 TO CONDENSER	7.70
138	SY-LP HEATER-2/3/4/5 DRAINS AND DRIP PUMP I	15.80
139	SY-HP HEATER DRAINS	35.00
140	SY-DRAIN FROM UNLISTED EQPT/VESSEL-TG SCOPE	4.00
141	SY-TG CYCLE PIPING DRAINS AND VENTS	23.00
142	SY-MANIFOLDS FOR HP FLASH BOX AND CONDENS	2.20
143	SY-HP FLASH TANK DRAIN TO CONDENSER	2.50
144	SY-UNLISTED SPRAY WATER - SG SCOPE	5.00
145	SY-HP HEATER VENTS - TG SCOPE	4.60
146	SY-LP HEATER VENTS	2.10
147	SY-VENT FROM UNLISTED PPG/EQPT TO COND	12.00
148	SY-CONDENSER AIR EVACUATION PIPING	4.00
149	SY-UNLISTED SPRAY WATER - TG SCOPE	2.40
150	SY-GLAND STEAM COOLER DRAINS	0.30
151	SY-EXHAUST STEAM FROM PRIME MOVERS-TG SCOPE	28.00
152	SY-AUX STEAM TO GLAND SEALS - TG SCOPE	0.80
153	SY-AUX STEAM TO UNLISTED USERS - SG SCOPE	18.00
154	SY-HPH SV EXHAUST TO FLASH TANK	3.00
155	SY-DRAIN FLASH TANK VENT TO CONDENSER	3.60
156	SY-HP DRAIN FLASH TANK VENT TO ATMOSPHERE	50.00
157	SY-UNLISTED SV EXHAUSTS - TG SCOPE	5.00
158	SY-AUX STEAM TO BFD TURBINE	2.70
159	SY-EXTRACTION STEAM TO DEAERATING HEATER	20.00
160	SY-EXTRACTION STEAM TO HP HEATER NO.1	6.70
161	SY-EXTRACTION STEAM TO HP HEATER-2	6.00
162	SY-EXTRACTION STEAM TO HP HEATER-3	6.50
163	SB-CRH PIPING TO DEAERATING HEATER	13.50
164	SY-EXTRACTION STEAM TO BFP DRIVE TURBINE	13.50
165	SY-EXTRACTION STEAM TO LP HEATER-3	6.50
166	SY-EXTRACTION STEAM TO LP HEATER-5	10.00
167	SY-HP AND LP BYPASS WARM UP	1.00
168	HT-MISC ERECTION MATLS	1.00
169	HT-WELDING ELECTRODES-1	10.00
170	HT-VLH AND CLH for MS PPG UPTO MSV -HERP	6.00
171	HT-H AND S FOR HYDRO TEST	28.00
172	HT-MS FROM SUPERHEATER TO BOILER STOP VALVE	135.00
173	LU-LOCAL CONTROL EQPT FOR NON-STEAM LINES	0.20
174	LU-TEST THERMOWELLS	0.70
175	LU-INSTRUMENTATION FOR STARTUP SYSTEM	0.50
176	LU-SPECIAL TANKS AND VESSELS	45.00
177	LU-COOLING WATER PUMP	1.00
178	LU-CW STORAGE TANK 16-25 CUM	7.00
179	LU-MINERAL WOOL MATTRESS	60.00
180	LU-ALUMINIUM CLADDING FOR INSULATION	20.00
181	LU-SEALING COMPOUND FOR INSL	0.50
182	LU-DIRECT GAUGES FOR STEAM LINES	1.10
183	LU-DIRECT GAUGES FOR NON-STEAM LINES	1.00
184	LU-VLH AND CLH for SG PPG -HERP	16.00
185	LU-H AND S FOR LP PIPING	15.00
186	LU-VLH AND CLH for BFD PPG -HERP	10.00
187	LU-H AND S FOR BOILER LIGHT UP - TG	47.00
188	LU-H AND S FOR LIGHT UP STEAM LINE	79.00
189	LU-CLEAN DRAIN FLASH TANK - DIA 1500 MM	3.00
190	LU-SUB DELIVERY VALVES FOR LIGHT UP	7.00
191	LU-SERVICE AIR-COMP SUCT AND DIS TO RECEI	10.00

192	LU-INST AIR COMP SUC AND DIS TO RECEIVER	10.00
193	LU-LOW PRESSURE DOSING PIPING	2.50
194	LU-SERVICE AIR FOR INDIVIDUAL UNITS	20.00
195	LU-INSTRUMENT AIR FOR INDIVIDUAL UNIT	50.00
196	LU-MAIN CIRCULATION WATER PIPING	312.00
197	LU-SERVICE WATER PIPING	35.00
198	LU-TG AUX COOLING WATER	140.00
199	LU-DRAIN FROM UNLISTED EQPT/VESSEL-SG SCOPE	16.00
200	LU-DEMINERALISED WATER SYSTEM	10.00
201	LU-SG AUX COOLING WATER UNIT SYSTEM	55.00
202	LU-BOILER WATER WASH TO AND FROM UNIT	20.00
203	LU-FIRE WATER-OTHER AREAS	28.00
204	LU-BOILER INTEGRAL PIPING DRAINS	17.00
205	LU-HP PIPING DRAINS - SG SCOPE	20.00
206	LU-LP PIPING DRAINS - SG SCOPE	5.00
207	LU-SCAPH DRAINS	4.00
208	LU-SPRAY WATER TO HPBP	7.00
209	LU-SPRAY WATER FROM BFP INTERSTAGE	10.50
210	LU-DEAERATING HEATER OVER FLOW AND DRAIN	7.00
211	LU-BOILER FEED PUMP TO HPH INCLUDING BYPASS	205.00
212	LU-BFD FROM FINAL HPH TO SG TP	115.00
213	LU-BOILER FEED PUMP SUCTION	43.00
214	LU-BOILER FEED PUMP RECIRCULATION	65.00
215	LU-BFD BETWEEN HTRS AND GROUP PROTECTION	98.00
216	LU-ERECTION MATERIALS FOR INSTRUMENTS	1.00
217	LU-DEAERATOR SAFETY VALVE EXHAUST TO ATM	5.00
218	LU-CONDENSATE DUMP FROM HEADER	0.80
219	LU-AUX STEAM TO DEAERATING HEATER	6.50
220	LU-AUX STEAM HEADER SV EXHAUST	6.00
221	LU-AUX STEAM TO AH SOOT BLOWERS	6.00
222	LU-CONDENSATE SUCTION	10.00
223	LU-CD FROM PUMP TO LPH1/DC INLET TEE AND RE	47.00
224	LU-CD FROM LPH1/DC INLET TEE TO TG TP	33.00
225	LU-CD FROM TG TP TO DEAERATING HEATER	15.10
226	LU-CONDENSATE FOR SEALING OF VACUUM	3.00
227	LU-AUX STEAM HEADER	10.00
228	LU-AUX STEAM TO SCAPH	12.50
229	LU-DRINKING WATER PIPING	20.00
230	LU-LUBE OIL PIPING SYSTEM	10.00
231	SB-H AND S FOR CRITICAL PIPING - STEAM LINE	295.00
232	SB-HRH FROM REHEATER TO INTERCEPTOR VALVE	427.00
233	SB-CRH FROM TURBINE TO REHEATER	264.00
234	SB-HPBP VALVE TO CRH PIPING	27.00
235	SB-LPBP VALVE UPSTREAM AND DOWNSTREAM	111.00
236	SB-AUX STRUCTURE FOR CRITICAL PPG AND CD B	200.00
237	SB-MS FROM BOILER STOP VALVE TO ESV	550.00
238	SB-MS HEADER TO AUX PRDS	6.00
239	SB-MS HEADER TO HPBP VALVE	34.00
240	SB-FIX COM FOR MISCELLANEOUS PPG INSULATION	10.00
241	SB-VLH AND CLH Critical PPG -HERP	60.00
242	SB-STEAM TO BFP DRIVE TURBINE	7.00
243	SB-CRH HEADER TO AUX.PRDS	3.20
244	SB-H AND S FOR SYNCHRONISATION - TG	56.00
245	SB-CRH PIPING TO DEAERATING HEATER	13.50
246	SY-CONDENSATE PUMP	3.00
247	SY-VLH AND CLH for TG PPG -HERP	11.00
248	SY-PERFORMANCE GUARANTEE TEST MATERIALS	1.50
249	SY-LP CONDENSATE PIPING WITHIN TG HALL FOR	17.00
250	SY-HP FLASH TANK VENT TO CONDENSER	2.50
251	SY-LP FLASH TANK VENT TO CONDENSER	4.00
252	SY-LP FLASH TANK DRAIN TO COND	2.60
253	SY-LP HEATER-1 TO CONDENSER	7.70
254	SY-LP HEATER-2/3/4/5 DRAINS AND DRIP PUMP I	15.80

255	SY-HP HEATER DRAINS	35.00
256	SY-DRAIN FROM UNLISTED EQPT/VESSEL-TG SCOPE	4.00
257	SY-TG CYCLE PIPING DRAINS AND VENTS	23.00
258	SY-MANIFOLDS FOR HP FLASH BOX AND CONDENS	2.20
259	SY-HP FLASH TANK DRAIN TO CONDENSER	2.50
260	SY-UNLISTED SPRAY WATER - SG SCOPE	5.00
261	SY-HP HEATER VENTS - TG SCOPE	4.60
262	SY-LP HEATER VENTS	2.10
263	SY-VENT FROM UNLISTED PPG/EQPT TO COND	12.00
264	SY-CONDENSER AIR EVACUATION PIPING	4.00
265	SY-UNLISTED SPRAY WATER - TG SCOPE	2.40
266	SY-GLAND STEAM COOLER DRAINS	0.30
267	SY-EXHAUST STEAM FROM PRIME MOVERS-TG SCOPE	28.00
268	SY-AUX STEAM TO GLAND SEALS - TG SCOPE	0.80
269	SY-AUX STEAM TO UNLISTED USERS - SG SCOPE	18.00
270	SY-HPH SV EXHAUST TO FLASH TANK	3.00
271	SY-DRAIN FLASH TANK VENT TO CONDENSER	3.60
272	SY-HP DRAIN FLASH TANK VENT TO ATMOSPHERE	50.00
273	SY-UNLISTED SV EXHAUSTS - TG SCOPE	5.00
274	SY-AUX STEAM TO BFD TURBINE	2.70
275	SY-EXTRACTION STEAM TO DEAERATING HEATER	20.00
276	SY-EXTRACTION STEAM TO HP HEATER NO.1	6.70
277	SY-EXTRACTION STEAM TO HP HEATER-2	6.00
278	SY-EXTRACTION STEAM TO HP HEATER-3	6.50
279	SY-EXTRACTION STEAM TO BFP DRIVE TURBINE	13.50
280	SY-EXTRACTION STEAM TO LP HEATER-3	6.50
281	SY-EXTRACTION STEAM TO LP HEATER-5	10.00
282	SY-HP AND LP BYPASS WARM UP	1.00
		16479.89

Unit: TRY

Sn	DESCRIPTION	SIZE (L x B x H)	No. of boxes/ crates	Gr. WT per pkg in MT	Tot Wt. in MT	FRT
1	STEEL BOX - ODC	13 M x 3 M x 1.25 M	10	22	220	487.50
2	STEEL BOX - ODC	13 M x 3 M x 1.50 M	10	22	220	585.00
3	STEEL BOX - normal	12.5 M x 2.25 M x 1.25 M	1350	22	29700	47460.94
4	STEEL BOX - normal	12.5 M x 2.25 M x 1.50 M	500	22	11000	21093.75
5	STEEL BOX - 6M	6.0 M x 2.25 M x 1.25 M	500	11	5500	8437.50
6	STEEL BOX - 3M	3.0 M x 2.25 M x 1.25 M	500	6	3000	4218.75
7	STEEL CRATES - BASE FRAME	21 M x 2.5 M (L x B)	40	22	880	880.00
8	STEEL CRATES - BASE FRAME	19 M x 2.5 M (L x B)	60	22	1320	1320.00
9	STEEL CRATES - BASE FRAME	17 M x 3.5 M (L x B)	50	22	1100	1100.00
10	STEEL CRATES - BASE FRAME	17 M x 2.5 M (L x B)	80	22	1760	1760.00
11	STEEL CRATES - BASE FRAME	12.5 M x 2.5 M (L x B)	60	22	1320	1320.00
12	STEEL CRATES - BASE FRAME	12.5 M x 3.0 M (L x B)	60	22	1320	1320.00
13	loose structural items of columns and ceiling girders each piece weighing in the range of 10 MT to 60 MT				57340	487.50
					10000	10000
						99983.44

Note: 4500 MT of above Trichy cargo will be delivered at Kolkata/ Haldia port

Third Country Shipments Arriving directly at Mongla

Unit : HWR- From Rotterdam/Hamburg

Description of Package	Length in MM	Width in MM	Height in MM	Gross weight in MT	Volume in M3	FRT
SAG Supply Details (for Unit 1 and Unit 2)						

1	HP Turbine (Turbine Section Assembly)	7970	3800	3400	145	103.0	145.00
2	IP Turbine (Turbine Section)	9000	4480	4350	190	175.4	190.00
3	LP Turbine - 1 (Inner casing Lower Part)	5920	5830	3870	230	133.6	230.00
4	LP Turbine - 1 (Inner casing Upper Part)	6220	4350	3820		103.4	103.36
5	LP Turbine - 1 (Turbine Rotor)	8900	3680	3850		126.1	126.10
6	LP Turbine - 2 (Inner casing Lower Part)	5920	5830	3870	230	133.6	230.00
7	LP Turbine - 2 (Inner casing Upper Part)	6220	4350	3820		103.4	103.36
8	LP Turbine - 2 (Turbine Rotor)	8900	3680	3850		126.1	126.10
9	Turbine Bearing (Bearing casing Assembly, Lever)	6470	1820	2500	97	29.4	97.00
10	Turbine Bearing (Bearing casing Assembly)	6460	2120	2460		33.7	33.69
11	Turbine Bearing (Bearing casing Assembly)	6500	2010	2420		31.6	31.62
12	Turbine Valves (Stop / Control Valve Assembly)	6210	4870	3600	193	108.9	193.00
13	Turbine Accessories I (Lifting Beam)	7300	1830	2280	41	30.5	41.00
14	Turbine Accessories II (Ventile)	2660	1830	1290	12	6.3	12.00
15	Cross Over Pipe	6610	2780	3760	67	69.1	69.09
16	Turbine Foundation Accessories				0.73	0.7	0.73
17	Complete Generator Rotor	14540	1960	2230	82	63.6	82.00
18	Generator (excluding Rotor)	12380	4440	4360	327	239.7	327.00
19	Foundation Accessories				17	17.0	17.00
20	Generator Accessories				102	102.0	102.00
21	LATS (C&I) Unit-1&2				14	14.0	14.00
22	Instrumentation for Turbine				3	3.0	3.00
23	Hazardous goods				0.5	0.5	0.50

2277.54

Unit: TRY

	Description of Package	No of pkgs	Length in Mtr.	Width in Mtr.	Height in Mtr.	Gross weight in MT	CBM per pkg	FRT
1	CC Pump		-			40		
2	Furnace cradle		-			5		
	GE USA supplies –boiler components							
1.	Sofa Register Assly Corner 1		4.14	2.44	3.28	6.895	33.133	33.133
2.	Sofa Register Assly Corner 2		4.14	2.44	3.28	6.895	33.133	33.133
3.	Sofa Register Assly Corner 3		4.14	2.44	3.28	6.895	33.133	33.133
4.	Sofa Register Assly Corner 4		4.14	2.44	3.28	6.895	33.133	33.133
5.	Top Windbox Assly Corner No. 1		8.99	3.02	2.64	18.144	71.675	71.675
6.	Top Windbox Assly Corner No. 2		8.99	3.02	2.64	18.144	71.675	71.675
7.	Top Windbox Assly Corner No. 3		8.99	3.02	2.64	18.144	71.675	71.675
8.	Top Windbox Assly Corner No. 4		8.99	3.02	2.64	18.144	71.675	71.675
9.	Bottom Windbox Assly Corner No. 1		8.84	3.02	2.64	19.278	70.480	70.480
10.	Bottom Windbox Assly Corner No. 2		8.84	3.02	2.64	19.278	70.480	70.480
11.	Bottom Windbox Assly Corner No. 3		8.84	3.02	2.64	19.278	70.480	70.480
12.	Bottom Windbox Assly Corner No. 4		8.84	3.02	2.64	19.278	70.480	70.480
13.	Plate and Wing Assly		2.46	1.24	1.35	2.527	4.118	4.118
14.	Buckstay Wing Assly		3.71	1.24	1.35	4.071	6.211	6.211
15.	Misc		2.46	1.24	1.35	3.06	4.118	4.118
16.	Buckstay Tie Link Assly		3.07	1.24	0.74	1.93	2.817	2.817
17.	TPT Cover		1.24	0.94	0.81	1.37	0.944	1.370

18.	Buckstay Tie Link Assly		2.77	1.24	0.71	1.715	2.439	2.439
19.	Buckstay Tie Link Assly		2.77	1.24	0.74	1.735	2.542	2.542
20.	Buckstay Tie Link Assly		3.07	1.24	0.69	1.876	2.627	2.627
21.	Air Head Assly & Coal Panel Frame Assly		14.73	1.55	0.86	4.144	19.635	19.635
22.	Scanner Housing Assly, Outer coal panel Assly		1.24	1.24	1.22	0.295	1.876	1.876
23.	Tilt Drive Bracket Assly, Cover plate		1.85	1.85	1.55	2.366	5.305	5.305
								754.209

Note: The packing list is based on Engineering Design, however shipment shall be as per actual dimensions. The cargo volume / Gross Weight of the heavy Lift cargo may vary by +/- 20% However, financial implications, if any, shall be as per Section VII, note 5. (Conversion factor Ocean freight:-1CBM=1 MT(freight ton))
