

HG/473/2014

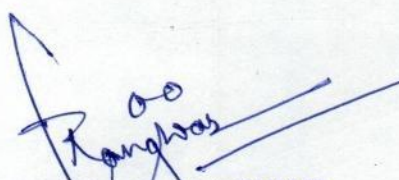
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09/06/2014

Sr. No	Name of the Equipment	Material of Construction	Qty.
35	Storage Tanks, Vertical, Cylindrical, 3000 Ø x 4500 ht x 6 mm, with flat bottom and conical top, Capacity 125,000 Ltrs..	MS	1
36	Pure DCB Storage Tank, Vertical, Cylindrical, 2900 Ø x 3625 ht x 6 mm, Capacity 24,000 Ltrs. along with U-tube bundle for heating, HTA -5 M ² .	MS	1
37	Crude DCB Tank, Vertical, Cylindrical, 2650 Ø x 3300 L x 6 mm thick, Capacity 18,000 Ltrs.	MS	1
38	DCB Distillation Column, 350 Ø x 10860 ht x 8 mm, shell packed with ceramic saddles.	MS	1
39	DCB Distillation Re-boiler, Shell 2200 Ø x 8 mm with U-tube bundle for heating HTA -5 M ² .	MS	1
40	DCB Condenser, HTA - 5 M ² .	MS	1
41	DCB Accumulator, Capacity 200 Ltrs.	MS	1
42	MCB Distillation Holding Tank, Capacity 200 Ltrs.	MS	1
43	MCB +DCB Cooler, HTA - 5 M ²	MS	1
44	HCL Absorption System	Graphite	1
45	Ejector System.	Graphite	1
46	Water Circulation Tank, Capacity 5,000 Ltrs.	HDPE	1
47	Bottom Benzene HCL Separator, Capacity 200 Ltrs.	Glass	2
48	Benzene Accumulator, Capacity 1,000 Ltrs.	HDPE	1
49	Liquid – Liquid Separator, Capacity 200 Ltrs.	Glass	2
50	Caustic Dryer	MS	2
51	HCL Holding Vessel, Capacity 2,000 Ltrs.	HDPE/ FRP	1
52	HCL Storage Tanks, Capacity 15,000 Ltrs.	HDPE	1
53	HCL Storage Tanks, Capacity 25,000 Ltrs.	HDPE	1
54	HCL Storage Tanks, Capacity 40,000 Ltrs.	PP/ FRP	6
55	Lye Storage Tank, Vertical, Cylindrical, with flat bottom and conical top, size 2920 Ø x 3380 ht x 6 mm, Capacity 20,000 ltrs	MS	1
56	DNCB Measuring / Holding Tank, having size 1300 ID x 1500 ht x 12 mm thick, Capacity 2,500 Ltrs..	MS	1
57	DNCB Reactor with Agitator, having size 2000 ID x 1600 ht x 12 mm, Jacketed, Capacity 5,000 Ltrs.	MS	1
58	Receiver having size 1300 ID x 1600 L x 8 mm, Capacity 2,500 Ltrs.	MS	1
59	Nutsch Filter, having size 2533 Ø x 500 x 8 mm, Capacity 2,500 Ltrs.	MS	1


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60	Multistage Centrifugal Pump, Capacity 10 M ³ /hr, Head 20 mtr, having mech. Seal coupled with 2 HP / 1400 rpm FLP Motor	MS with Bronze Impel	2
61	Submersible Pump, Vertical CVE 32/125, Capacity 10 M ³ /hr submersible dept-3135 mm, Kishore make, coupled with 2 HP / 2900 rpm FLP Motor.	CS	1
62	Centrifugal Pump, Horizontal BPO design CL 40 x 32 - 160, Capacity 2 to 4 M ³ /hr, Head 30 mtr., Khimline make, coupled with 1.5 HP/2900 rpm FLP Motor	CS	8
63	Centrifugal Pump, Horizontal BPO design CC 40 x 32 - 160, Capacity 4 M ³ /hr, Khimline make coupled with 2 HP / 2900 rpm FLP Motor.	CS	8
64	Centrifugal Pump, Horizontal BPO design CC 80 x 65 - 200, Capacity 50 M ³ /hr, Khimline make, coupled with 15 HP / 2900 rpm FLP Motor.	CS	4
65	Centrifugal Pump, Horizontal BPO design CC 40 x 32 - 200, Capacity 5 M ³ /hr, Khimline make coupled with 1 HP / 2900 rpm FLP Motor.	CS	3
66	Centrifugal Pump, Horizontal BPO design CC 65 x 50 - 200, with mechanical seal, Capacity 10 M ³ /hr, Khimline make, coupled with 10 HP / 2900 rpm FLP Motor.	CS	1
67	Centrifugal Pump, Horizontal BPO design with mechanical seal, Capacity 11 M ³ /hr, Antico make, coupled with 7.5 HP / 2900 rpm FLP Motor.	PP	5
68	Centrifugal Pump, Horizontal BPO design with mechanical seal, Capacity 11 M ³ /hr, Antico make, coupled with 5 HP / 2900 rpm FLP Motor.	PP	1
69	Submersible Pump, Model VSP 60/2.0, Capacity 5 M ³ /hr, Antico make, coupled with 5 HP /1440 rpm FLP Motor.	PP	1
70	Pipes, Valves and Pipe-fittings		Full set
71	Electrical MCC, cables, cable trays, switch gears, etc.		Full set
72	Instrumentation Complete set of ein	Complete control systems	Full set


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PNA Equipment List

Sr. No.	Equipment Name	Material of Construction	Capacity	Quantity, No.
1	Anhydrous. NH3 storage tank	SA 516 Gr 70	20 KL	2
2	PNCB Storage Tanks	MS WITH SS316 CLADDED	49 KL	1
3	PNCB Day Tanks	MS WITH SS316 CLADDED	49 KL	1
4	Autoclave	SA 516 Gr 70	15 KL	4
5	Crystalliser	SS Cladded	10 KL	2
6	ML Neutralliser	SA 516 Gr 60	10 KL	2
7	Ammonolysis Knock out Pot	IS 2062 GR.A	10.89 KL	1
8	Batch measuring vessel for PNCB	SS 316 claded	3 KL	1
9	Aq.NH3 storage tank	SS Cladded	30 KL	1
10	ML receiving tank	MS	20 KL	1
11	Ammonium chloride First water wash Receiving Tank	SS316 Claded	2.2 KL	1
12	Ammonium chloride Second water wash receiving tank	SS316 Claded	2 KL	1
13	Ammonium chloride Third water wash receiving tank	SS316 Claded	2 KL	1
14	Ammonium chloride Third water wash receiving tank	SS316 Claded	2 KL	1
15	Ejector Hot Well	CS	0.56 KL	1
16	Horizontal Aq. NH3 tank	SA 516 Gr 70	10 KL	2
17	Horizontal Aq. NH3 tank	CS	5 KL	1
18	Dil CaCl2 tank	CS	13.5 KL	1


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Sr. No.	Equipment Name	Material of Construction	Capacity	Quantity, No.
19	Packed column (Primary)	SA 516 Gr 70	-	1
20	Packed column (secondary)	SA 516 Gr 70	-	1
21	Packed column (guard)	SA 516 Gr 70	-	1
22	Ammonia Stripper Columns	CS		2
23	Crystallizer Agitator	SS 316	-	2
24	ML Neutralliser	SS 316	-	2
25	Activated Carbon Treatment	CS	-	2
26	U Tube Heat exchanger	SA516 GR.70/ SA179	70 m2	1
27	PHE for ANF wash water heating	SS316	1.09 m2	1
28	PHE for Horizontal Aq.NH3 Tank	SS 316	9.1 m2	1
29	PHE for Horizontal Aq.NH3 Tank	SS 316	4.49 m2	1
30	PHE for Horizontal Aq.NH3 Tank	SS 316	0.82 m2	1
31	NH3 stripping column condenser	CS		1
32	NH3 stripping column condenser	SS316		1
33	Preaheater for Ammonia Stripping Column PHE			1
34	Preaheater for Ammonia Stripping Column			1
35	U Bundle for Horizontal Aq.NH3 Tank			1
36	U Bundle for Horizontal Aq.NH3 Tank			1
37	Ammonia Compressor	CS	25.3 m3	1
38	Agitated nutch filter+dryer	SS316	6 KL	1


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Sr. No.	Equipment Name	Material of Construction	Capacity	Quantity, No.
39	Agitated Nutch Filter for Activated carbon treatment removal			1
40	Blender for PNA	SS 316	9.5 KL	1
41	PNA Dryer	SS 316	7 KL	1
42	CENTRIFUGAL ID FAN	CS	600 m3/hr	1
43	Ejector	SS316		1
44	BAGGING MACHINE	SS316	1250 Kg/ hr	1
45	Bagging machine for Cacl2			1
46	Spray dryer	cs	~10 MMWC	1
47	Manual Valves			1200
48	Grit Removal filter			2
49	Aq ammonia(effluent) transfer pump with flp motor	10 m3/hr	2.2	1
50	NH4Cl sol. transfer pump with flp motor	8 m3/hr	3	1
51	First water wash transfer pump with flp motor	8 m3/hr	3	1
52	Second water wash transfer pump with flp motor	8 m3/hr	3	1
53	Mother liquor transfer pump with flp motor	8 m3/hr	3	1
54	Mother liquor transfer pump with flp motor	8 m3/hr	3	1
55	Centrifugal transfer pump with flp motor	50 m3/hr	7.5	1
56	Centrifugal transfer pump with flp motor	50 m3/hr	7.5	1
57	centrifugal transfer pump with flp motor	30 m3/hr	5	1
58	Centrifugal transfer pump with flp motor	30 m3/hr	5	1


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Sr. No.	Equipment Name	Material of Construction	Capacity	Quantity, No.
59	Centrifugal transfer pump with flp motor	10 m3/hr	2.2	1
60	NH3 Stripper feed pump (SCREW PUMP) with flp motor	1 m3/hr		1
61	Chilled water pump with flp motor	175 m3/hr	80	2
62	Ammonia Stripping Column bottom Pumps with flp motor	-		2
63	DIL CaCl2 transfer pump with flp motor	8 m3/hr	5	2
64	Water ring vacuum pump for Agitated Nutch Filter Dryer with flp motor	-		1
	Pipes, Valves and Pipe-fittings			Full Set
	Electrical			Full Set
1	MCC#8 Panel, 338.8 KW			1
2	LDB Panel			1
3	PDB Panel			1
4	Cable, Cable Trays, Lightings			one set
	Instrumentation			Sets
5	Beacon, Burst Indicating Sensor, Density - Transmitter, Flow Transmitters, Hooters, Level Gauges, Level Transmitters - DP Type, Pressure Gauges, Pressure regulating Valves, Pressure Safety Valve, Pressure Transmitters, Rupture Discs, Temperature Element, PT-100, Solenoid Valves, Proximity Switches, Thermal Relief Valves, Temperature Transmitters, Thermowells, On/Off Valves, Control Valves, Load Cell, Weight Transmitter, PLC Panel, instrument cables, pipes, etc.			Sets


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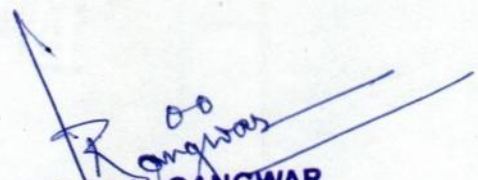
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PARA/ORTHO NITRO CHLORO BENZENE

Sr. No	Name of the Equipment	Material of Construction	Qty.
1	Centrifugal Pump, Horizontal BPO design, Model 40x32-200 with mechanical seal, Capacity, 4 M ³ /hr – 5 M ³ /hr, Khimline make, coupled with 2 HP / 2900 rpm FLP Motor.	SS / CS	4
2	Centrifugal Pump, Horizontal BPO design, Model 40x32-160, with mechanical seal, Capacity 6 M ³ /hr, Khimline make, coupled with 2 HP / 2900 rpm FLP Motor.	CI	2
3	Centrifugal Pump, Horizontal BPO design, Model 40x32-160 with mechanical seal, Capacity 7.5 M ³ /hr, Khimline make, coupled with 3 HP/ 2900 rpm FLP Motor.	Alloy 20	2
4	Centrifugal Pump, Horizontal Gland Packed type, Model 40x32-160, Capacity 7.5 M ³ /hr, Khimline make, coupled with 3 HP/ 2900 rpm FLP Motor.	CI	1
5	Centrifugal Pump, Horizontal BPO design, Model 40x32-160 with mechanical seal, Capacity 7.5 M ³ /hr, Khimline make, coupled with 3 HP/ 2900 rpm FLP Motor.	SS	2
6	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model 40x32-160J with mechanical seal, Capacity 7.5 M ³ /hr, Khimline make, coupled with 3 HP/ 2900 rpm FLP Motor.	SS	2
7	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model CC 40x32-160J with mechanical seal, Capacity 7.5 M ³ /hr, Khimline make, coupled with 2 HP/ 2900 rpm FLP Motor.	SS	5
8	Centrifugal Pump, Horizontal BPO design, Model 40x32-160, with mechanical seal, Capacity 10 M ³ /hr Khimline make, coupled with 2 HP/ 2900 rpm FLP Motor.	SS	6
9	Centrifugal Pump, Horizontal BPO design, Model 40x32-160 with mechanical seal, Capacity 4 M ³ /hr, Khimline make, coupled with 5 HP/ 2900 rpm FLP Motor.	CI	1
10	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model 65x50-160J, with mechanical seal, Capacity 15 M ³ /hr, Khimline make, coupled with 5 HP/ 2900 rpm FLP Motor.	SS	4
11	Centrifugal Pump, Horizontal BPO design, Model 40x32-160J, Gland Packed, Capacity 15 M ³ /hr, Khimline make, coupled with 5 HP/ 2900 rpm FLP Motor.	SS	4
12	Centrifugal Pump, Horizontal BPO design, Model 40x32-125, with mechanical seal, Capacity 5 M ³ /hr, Khimline make, coupled with 1.5 HP/ 2900 rpm FLP Motor	SS	1


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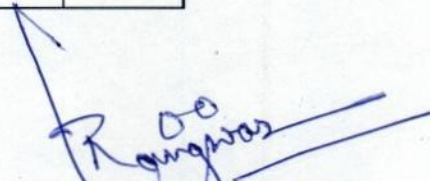
13	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model CC 80 x 65 x 200 J, with mechanical seal, Capacity 15 M ³ /hr, Khimline make, coupled with 3 HP/ 1450 rpm FLP Motor.	SS	1
14	Centrifugal Pump, Horizontal, BPO design, Model CC 65 x 50 -160, with mechanical seal, Capacity 20 M ³ /hr, Khimline make, coupled with 3 HP/ 2900 rpm Motor.	SS	2
15	Centrifugal Pump, Horizontal BPO design, Model FCH - SP - 3L - 160 with mechanical seal, Florite make, coupled with 5 HP/ 2900 rpm FLP Motor.	Cl	1
16	External Rotary Gear Pump, Model RD x J -2002, size 2" x 2", capacity 12 M ³ /hr, Del Engg. Make, coupled with 5 HP / 1450 rpm FLP motor.	CS	2
17	External Rotary Gear Pump, Model RD x J - 150 S , size 1½" x 1½", capacity 5 M ³ /hr, Del Engg. Make, coupled with 1.5 HP / 1450 rpm FLP motor.	CS	2
18	Centrifugal Pump, Horizontal, Model FLH-SP, 25/160, gland packed, Capacity 5 M ³ /hr, Florite make, coupled with 3 HP/ 2900 rpm Motor.	Cl	1
19	Monoblock Pump, Horizontal, Model KDS 325, size 65 x 50, Capacity 21 M ³ /hr, Kirloskar make, along with Motor.	Cl	1
20	Centrifugal Pump, Horizontal BPO design, Model CC 100 x 80-160, Gland Packed, Capacity 100 M ³ /hr, Khimline make, coupled with 12.5 HP/ 2900 rpm Motor.	Cl	3
21	Centrifugal Pump, Horizontal BPO design, Model CC 100 x 80-200, Gland Packed, Capacity 100 M ³ /hr, Khimline make, coupled with 30 HP/ 2900 rpm Motor.	Cl	3
22	Centrifugal Pump, Horizontal BPO design, Model CC 200 x 150-400, Gland Packed, Capacity 270 M ³ /hr, Khimline make, coupled with 100 HP/ 1450 rpm Motor.	Cl	3
23	Centrifugal Pump, Horizontal BPO design, Model CC 125 x 100-250, Gland Packed, Capacity 100 M ³ /hr, Khimline make, coupled with 50 HP/ 2900 rpm Motor.	Fl	1
24	Centrifugal Pump, Horizontal BPO design, Model DB-50/20, Gland Packed, Kirloskar make, coupled with 20 HP/ 2900 rpm FLP Motor.	Cl	2
25	Centrifugal Pump, Horizontal BPO design, Model 80 x 65-160, Gland Packed, Capacity 80 M ³ /hr, Khimline make, coupled with 5 HP/ 2900 rpm TEFC Motor.	Cl	2
26	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model 125 x100-200, Gland Packed, Capacity 100 M ³ /hr, Khimline make, coupled with 40 HP/ 2900 rpm TEFC Motor.	Cl	2
27	Centrifugal Pump, Horizontal BPO design, Model CC 40x32-250, Gland Packed, Capacity 4 M ³ /hr, Khimline make, coupled with 10 HP / 2900 rpm TEFC Motor.	Cl	2


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28	Centrifugal Pump, Horizontal BPO design, Model 200 x 150 -400, Gland Packed, Capacity 175 M ³ /hr, Khimline make, coupled with 40 HP / 1450 rpm TEFC Motor.	CI	3
29	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model KPD-J 32/13H with mechanical seal, Capacity 9.3 M ³ /hr, Kirloskar make, coupled with 3 HP/ 2900 rpm FLP Motor.	SS	1
30	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model KPD-J 80/ 32H with mechanical seal, Capacity 60 M ³ /hr, Kirloskar make, coupled with 20 HP / 1450 rpm FLP Motor.	SS	1
31	Centrifugal Pump, Jacketed, Horizontal, BPO design, Model KPD-J 40/32 with mechanical seal, Capacity 15 M ³ /hr, Kirloskar make, coupled with 7.5 HP / 1450 rpm FLP Motor.	SS	1
32	Centrifugal Pump, Horizontal, BPO design, Model KPD 50/20, with mechanical seal, Capacity 20 M ³ /hr, Kirloskar make, coupled with 5 HP/ 1450 rpm FLP Motor.	Alloy 20	2
33	Centrifugal Pump, Horizontal, BPO design, Model KPD 32/13 with mechanical seal, Capacity 16 M ³ /hr, Kirloskar make, coupled with 3 HP/ 2900 rpm FLP Motor.	Alloy 20	2
34	Jacketed Horizontal Pump, Model KPD-J Size 50x32, with mechanical seal, Capacity 9.3 M ³ /hr, Kirloskar make, coupled with 3 HP/ 1450 rpm FLP Motor.	SS	1
35	Self Primed Horizontal Pump, Model KGEN-11-3 PU, with mechanical seal, Capacity 11 M ³ /hr, Stork make, coupled with 1.5 HP/ 2900 rpm Motor.	CS	1
36	Submerged Vertical Pump, Model VSP 60/20, size 75 x 40 x 270, Anticorrosive make, coupled with 5 HP / 1450 rpm Motor.	PP	1
37	Monoblock Pump, Horizontal, Capacity 21.6 M ³ /hr, Kirloskar make, along with 3 HP/ 2900 rpm Motor.	CI	2
38	Centrifugal Pump, Model DB-40-13, size 65 x 40, Gland Packed, Capacity 25 M ³ /hr, Kirloskar make, coupled with 5 HP/ 2900 rpm Motor.	CI	1
39	Self Primed Pump, Model KGEN 11-4PV, with mechanical seal, Capacity 2.5M ³ /hr, Stork make, coupled with 2 HP/ 2900 rpm FLP Motor.	CI	1
40	Centrifugal Pump, Gland Packed, Capacity 2.5M ³ /hr, Kirloskar make, coupled with 2 HP/ 2900 rpm FLP Motor.	CI	1
41	Self Primed Pump, Model KGEN 11-3 PV, with mechanical seal, Capacity 15 M ³ /hr, Stork make, coupled with 1.5 HP/ 2900 rpm FLP Motor.	CI	1
42	Two Stage Water Ring Vacuum Pump, Model WRIC 120 x 60, Capacity 100 M ³ /hr, H.K. Industries make, coupled with 7.5 HP / 1450 rpm FLP Motor.	CI	5


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43	Twin Lobe AIR Compressor, Capacity 75 NM ³ / hr, C. Bole & Com. Make, coupled with 3 HP / 1450 rpm Motor.	CI	2
44	Condensate Recovery Pump, Size – 50 mm, Flow 2500 Kg/hr, Spirax Marshall Ltd make.	CS	2
45	Condensate Recovery Pump, Size– 80 x 50 mm, Flow 4500 Kg/hr Spirax Marshall Ltd make.	CS	2
46	Cooling Water Pump for Cooling Tower CT 101/102, Capacity 175 M ³ /hr, Supplied by Khimlime Pumps		3
47	Cooling Water Pump for Cooling Tower CW 100, Capacity 270 M ³ /hr, Supplied by Khimlime Pumps		3
48	Booster Pump for cooling water, Capacity 100 M ³ /hr, Supplied by Khimlime Pumps		1
49	Acid Mixer, Vertical, Cylindrical, 3000 Ø x 3400 H, Capacity 18,700 ltrs. along with Agitator and accessories.	SS 316	1
50	MCB Tank, Vertical, Cylindrical, 3000 Ø x 3400 ht x 6 mm with flat bottom, Capacity 24,000 ltrs.	MS	1
51	Conc. Sulphuric Acid Storage Tank, Vertical, Cylindrical, 3300 Ø x 3950 H, Capacity 33,000 ltrs.	MS	2
52	Conc. Nitric Acid Storage Tank, Vertical, Cylindrical, 4000 Ø x 4,800 H, Capacity 60,000 ltrs.	SS 304 L	1
53	Spent Acid Storage Tank, Vertical, Cylindrical, 3300 Ø x 3950 H, Capacity 33,000 ltrs.	MS	1
54	Conc. sulphuric Acid Measuring Tank, Vertical, Cylindrical, 1300 Ø x 2250 H, Capacity 3,000 ltrs	MS	1
55	Conc. Nitric Acid Measuring Tank, Vertical, Cylindrical, 1500 Ø x 2750 H, Capacity 4,800 ltrs.	SS 316	1
56	Spent acid Measuring Tank, Capacity 12,000 ltrs.	MS	1
57	Cooling Water Spray Tank, Square type, Capacity 2000 ltrs	MS	1
58	Nitrator, Capacity 6,000 Ltrs. along with Agitator, 20 HP FLP Motor with cooling Coils having HTA 37M ² and accessories.	SS 316L	4
59	Washer, Capacity 5,000 Ltrs. along with Agitator, 5 HP FLP Motor and accessories.	SS 316	4
60	Alkali Solution preparation Tank, Capacity 1,000 Ltrs. along with Agitator, 1 HP FLP Motor and accessories.	MS	1
61	Mixed Acid Measuring Tank, Vertical, Cylindrical with flat top & conical bottom, Capacity 5,000 Ltrs.	SS 316	4
62	MCB Measuring Tank, Vertical, Cylindrical with flat top & conical bottom, Capacity 3,000 Ltrs.	MS	2
63	Dryer with coil, Vertical, Cylindrical with Conical bottom, Capacity 3400 Ltrs. and provided with S.S. Coils HTA- 4 M ² .	SS 316	4


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64	Spent Acid Intermediate Tank, Vertical, Cylindrical, Capacity 7,000 Ltrs.	SS 316	2
65	Wash Water settling Tank, Rectangular, size 3230 x 2230 x 1400 x 6 mm, Capacity 8,000 Ltrs. provided with heating coil HTA -10 M ²	SS 316	2
66	Hot Water Tank, Horizontal, Cylindrical, capacity 15000 ltrs., provided with heating coil of U-tube bundle, HTA- 6 m ² .	SS 304	1
67	Dosing Tank (Soda Ash), Vertical, Cylindrical with flat top, Capacity 1,000 Ltrs.	MS	1
68	Absorption Column, size 12 mtr. ht x 250 Ø, Capacity 2,700 Ltrs.	SS 316	1
69	Blower, Capacity 1800 NM ³ /hr	SS 316	1
70	Alkali Solution Tank for NOX gases	HDPE	1
71	Crystallizer Rectangular in sections, size 3500 x 2500 x 2710 ht, Capacity 18,700 Ltrs, provided with 42 nos. of 3 mm thick plates for chilling / cooling / heating and steam heating coils from outside.	SS 304 L	4
72	PNCB Product Tank, Horizontal, Cylindrical, having size 2500 Ø x 3500 L x 10 mm Capacity 10,000 Ltrs. along with U-Tube heating Coil, HTA- 5 M ² .	MS	4
73	Eutectic Oil Tank having size 2050 Ø x 4500 L x 10 mm, Capacity 15,000 Ltrs. and provided with U-Tube Heating Coil HTA -6 M ²	MS	4
74	Methanol Recovery Tank size 2050 Ø x 4500 L x 10 mm, Capacity 15,000 Ltrs. and provided with U-Tube Chilling Coil HTA - 5 M ² .	MS	4
75	Heat Exchanger, Shell & Tube type, Shell size 300 Ø x 3000 L, HTA - 10 M ² .	MS	4
76	Heat Exchanger, Shell & Tube type, HTA- 4 M ² .	MS	4
77	Condenser, Shell & Tube type, having size 300 Ø x 3000 L, HTA 10- M ²	MS	4
78	Condenser, Shell & Tube type, having size 400 Ø x 3000 L, HTA- 20 M ² .	MS	4
79	Expansion Tank, Vertical, Cylindrical, having size 500 Ø x 500 ht x 6 mm, Capacity 100 ltrs	MS	4
80	Dry Methanol Tank, Vertical, Cylindrical, having size 2100 Ø x 3500 ht, Capacity 12,000 Ltrs. along with U-tube bundle for chilling, HTA - 2 M ²	MS	1
81	Flaker Feed Vessel, having size 2500 Ø x 3500 L x 10 mm thick, Capacity 10,000 Ltrs. along with U-tube bundle for heating, HTA - 5 M ²	MS	1
82	Flaker having Drum, size 1120 Ø x 2700 L, surface area 8.4 M ² Capacity 1200 kg/hr. along with accessories.	SS 316	1
83	Blower for Flaker, Capacity 10,000 M ³ /hr	MS	2


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84	Dust Collection System	MS	1
85	Return Cooling Water Collection Tank with Pump, Capacity 1500 Ltrs.	MS	1
86	Distillation Column-I, having size 1220 Ø x 32922 ht x 8 mm packed with sulzer packing and accessories	SS 316	1
87	Distillation Column-II, having size 600 Ø x 26500 ht. x 8 mm packed with sulzer packing and accessories.	SS 316	1
88	Distillation Column-III, having size 680 Ø x 11660 ht. x 8 mm, packed with sulzer packing and accessories.	SS 316	1
89	Filter – Duplex.	MS	2
90	Feed Pre-heater, having size 291 Ø x 3000 L, HTA - 5.75 M ² .	MS	1
91	Bottom Product Cooler, HTA – 10 M ² .	SS	1
92	Top Product Cooler	MS	1
93	Re-boiler, having size 1220 ID x 2950 L x 8 mm, HTA 133 M ² along with expansion bellow.	MS	1
94	Re-boiler, having size 650 ID x 3040 L x 8 mm, HTA 32 M ² along with expansion bellow	MS	1
95	Re-boiler, having size 1910 ID x 1940 L x 8 mm, HTA 17.5 M ²	MS	1
96	Top Condenser, having size 1220 ID x 2610 L x 8, HTA - 96 M ²	SS 316	1
97	Top Condenser, having size 620 ID X 2554 L X 6 mm, HTA-24 M ²	SS 316	1
98	Top Condenser, having size 480 ID x 2500 L x 5, HTA - 13 M ²	SS 316	1
99	Steam Generation Drum 2000 Ø x 4128 ht x 10 mm thick, capacity 11,800 ltrs.	MS	1
100	Cold Traps for column – I, HTA - 9 M ²	SS 316	2
101	Cold Traps for Column – II, HTA - 2.5 M ²	SS 316	2
102	Entertainment Trap having size 500Ø x 900 ht x 5 mm thick with MS Jacket	SS	3
103	Condenser, HTA – 7.6 M ²	SS 316	1
104	Ejector System along with cooler.	Graphite	4
105	ONCB Tank, Capacity 15,000 Ltrs.	MS	1
106	Residue Tank, Vertical, Cylindrical provided with Jacket, Capacity 6,000 Ltrs.	MS	1
107	S.W. make up Tank, Capacity 3,500 Ltrs.	MS	1
108	Crude NCB Storage Tank, 3500 Ø x 4000 x 6 mm, Capacity 38,000 Ltrs. along with external heating coil, HTA – 5 M ² .	MS	1
109	MCB Storage Tank, 5000Ø x 6500 x 6 mm, Capacity 127,000 Ltrs	MS	2


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110	Nitric Acid Storage Tank, size 4000 Ø x 4800 x 5 mm, Capacity 75,000 Ltrs.	SS 304 L	1
111	Spent Acid Storage Tank, 4000 Ø x 4800 ht x 6mm along with 8 mm bottom, Capacity 75,000 Ltrs.	MS	2
112	E/O Storage Tank, 4000 Ø x 4800 ht x 6 mm with external heating coil, Capacity 75,000 Ltrs	MS	2
113	ONCB / PNCB / MNCB Storage Tank, 3500 Ø x 4000 ht X 6 MM along with external heating coil, HTA - 6 M ²	MS	3
114	PNCB / ONCB Fraction Tank, 3500 Ø x 4000 ht x 6mm., along with external heating coil HTA - 6 M ² .	MS	2
115	MNCB Fraction Tank having size 3500 Ø x 4000 L.	MS	1
116	Methanol Storage Tank, 2100 Ø x 3500 ht with flat top & bottom., Capacity 10,000 ltrs.	MS	1
117	Storage Tank for MNCB, Capacity 49,000 litres	SS 316	1
	Electrical MCC, cables, cable trays, switch gears,etc.		
	Pipes, Valves and Pipe-fittings		
	Instrumentation		
	Beacon Density - Transmitter, Flow Transmitters, Hooters, Level Gauges, Level Transmitters - DP Type, Pressure Gauges, Pressure regulating Valves, Pressure Safety Valve, Pressure Transmitters, Rupture Discs, Temperature Element,PT-100, Solenoid Valves, Proximity Switches, Thermal Relief Valves, Temperature Transmitters, Thermowells, On/Off Valves, Control Valves, Load Cell,Weight Transmitter, PLC Panel, instrument cables, pipes, etc.		


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