





**Good Conditioned Equipment Required in Aarti Industries Ltd**


Published On: 20-Feb-2024

To submit your offer, kindly connect with **Mr. Srikanth Yadav** at [srikanth.yadav@aarti-industries.com](mailto:srikanth.yadav@aarti-industries.com)

Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1	Train-1 CRF-02 Day Tank	14V0401	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	20	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	3.345	0	0
2	Train-1 CRT-08 Day Tank	14V0403A/B	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	2	SS 316L	KL	5	2.5 kg/m2 (g) to -1000 mmWC	80	General service	4.17	0	0
3	Train-1 CRT-09 Day Tank	14V0404A/B	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	2	SS 316L	KL	15	2.5 kg/m2 (g) to -1000 mmWC	80	General service	6.15	0	0
4	Train-1 Low Boiler collection Day Tank	14V0405	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	1	2.5 kg/m2 (g) to -1000 mmWC	80	General service	1.82	0	0
5	Train-1 Reaction mass drain vessel	14V0408	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	30	2.5 kg/m2 (g) to -1000 mmWC	80	General Service	6.554	0	0
6	Train-1 CRF-02 SOL-01 preparation tank (with Hopper on top)	14V0409	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	20	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	3.345	0	0
7	Train-2 CRF-01 Day Tank	14V0901	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	m3	25	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	5.112	0	0
8	Train-2 CRT-11 Day Tank	14V0903A/B	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	2	SS 316L	m3	5	2.5 kg/m2 (g) to -1000 mmWC	80	General Service	3.57	0	0
9	Train-2 CRT-12 Day Tank	14V0904A/B	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	2	SS 316L	m3	12	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	7.57	0	0
10	Train-2 Low Boiler collection Day Tank	14V0905	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	m3	2.5	2.5 kg/m2 (g) to -1000 mmWC	80	General Service	2.39	0	0
11	Train-2 CRF-01 SOL-01 preparation tank (with Hopper on top)	14V0908	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	m3	25	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	5.102	0	0
12	Train-2 Reaction mass drain vessel	14V0909	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	30	2.5 kg/m2 (g) to -1000 mmWC	80	General Service	6.554	0	0
13	Hot water Tank	14V0505	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	80	0.1 kg/cm2g+FOL	90	General service	15	0	0
14	Knockout pot	14V0508	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	5	2.5 kg/m2 (g) to -1000 mmWC	200	General service	1.76	0	0
15	15% Caustic solution day tank	14V0412	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	m3	58	2.5 kg/m2 (g) to -1000 mmWC	90	General service	10.505	0	0
16	15% Caustic Preparation Day tank with Eductor	14V0413	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	m3	58	2.5 kg/m2 (g) to -1000 mmWC	90	General service	10.505	0	0
17	Toluene Day vessel	13V0101	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	32	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	5.6	0	0
18	Dump Vessel for dryer	13V0106	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	1	VTS	VTS	Flammable	0.7	0	0
19	Vessel after Toluene Dryer	13V0102	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	32	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	5.6	0	0
20	Toluene Chlorinator Circulation reciever	13V0103	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	5	3.5 / FV	200	Flammable	1.76	0	0
21	Toluene Chlorinator Product reciever	13V0104	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	2.5	3.5 / FV	200	Flammable	1.3	0	0
22	Dump tank	13ST0101	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	50	2.5 kg/m2 (g) to -1000 mmWC	200	Flammable	14.502	0	0
23	Toluene Column Reflux pot	13V0203	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	1	2.5 kg/m2 (g) to -1000 mmWC	160	Flammable	0.8	0	0
24	Catch Pot for toluene column	13V0205	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.5	2.5 kg/m2 (g) to -1000 mmWC	160	Flammable	0.6	0	0
25	Heavies Removal Column Reflux pot	13V0206	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	1	3.5 / FV	160	Flammable	0.8	0	0
26	Heavies Removal Column Top Storage Vessel/ CRF- 1 Column feed vessel	13V0207	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	32	2.5 kg/m2 (g) to -1000 mmWC	90	Flammable	5.64	0	0
27	Heavies Removal Column Vacuum pump catch Pot	13V0208	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.5	3.5 / FV	160	Flammable	0.625	0	0
28	Heavies Removal column bottom Intermediate storage vessel	13V0209	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	5	2.5 kg/m2 (g) to -1000 mmWC	90	general service	1.76	0	0
29	CRF-1 Colum reflux pot	13V0210	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	8.5	3.5 / FV	250	Flammable	2.565	0	0
30	Catch Pot for CRF-1 column	13V0211	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	1	3.5 / FV	250	Flammable	0.8	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
31	CRF-1 Column Bottom Storage vessel/Chlorinator-2 Feed vessel	13V0212	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	40	2.5 kg/m2 (g) to -1000 mmWC	90	general service	8.374	0	0
32	CRF-1 Intermediate top Storage Vessel	13V0213	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	40	2.5 kg/m2 (g) to -1000 mmWC	90	Flammable	7.794	0	0
33	CRF-1 Collection tank	13V0214	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	40	2.5 kg/m2 (g) to -1000 mmWC	90	Flammable	7.794	0	0
34	Circulation Vessel	13V0302	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	16	2.5 kg/m2 (g) to -1000 mmWC	200	Flammable	4.2	0	0
35	CRF-2 Column Reflux pot	13V0307	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.5	3.5 / FV	160	Flammable	0.6	0	0
36	Pure CRF-2 Vessel	13V0309	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	25	2.5 kg/m2 (g) to -1000 mmWC	100	Flammable	4.906	0	0
37	CRF-2 Column catch pot	13V0308	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.5	3.5 / FV	160	Flammable	0.625	0	0
38	Knock out drum	13V0405	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	2.5	2.5 kg/m2 (g) to -1000 mmWC	250	general service	1.275	0	0
39	Condensate collection tanks-1	13V0503	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	m m	3.5	28/FV	280	general service	0.79	0	0
40	Condensate collection tanks-2	13V0504	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	m m	1	10/FV	200	general service	0.79	0	0
41	Hot water system Tank	13V0505	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	10	2.5 kg/m2 (g) to -1000 mmWC	100	general service	2.5	0	0
42	Process Drain Pit	13V0501	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	5	2.5 kg/m2 (g) to -1000 mmWC	90	Flammable	1.76	0	0
43	Na2S2O3 Transfer vessel	13V0808	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	7	2.5 kg/m2 (g) to -1000 mmWC	90	Flammable	3.05	0	0
44	CRF-2 Column feed vessel	13V0810	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	25	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	4.96	0	0
45	Condensate collection tanks-2	13V0507	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	m m	1	6/FV	200	general service	0.79	0	0
46	CRF-2 Collection tank	13V0310	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	25	2.5 kg/m2 (g) to -1000 mmWC	100	Flammable	4.96	0	0
47	CRT-34 Day Tank - 1	18V0314	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS304L	KI	8.5	2.5 kg/cm2 g/FV	160	Toxic	3.3	0	0
48	CRT-34 Day Tank - 2	18V0318	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS304L	KI	8.5	2.5 kg/cm2 g/FV	160	Toxic	3.3	0	0
49	CRT-35 Day Tank - 1	18V0315	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS304L	KI	2.5	2.5 kg/cm2 g/FV	160	Toxic	1.5	0	0
50	CRT-35 Day Tank - 2	18V0319	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS304L	KI	2.5	2.5 kg/cm2 g/FV	160	Toxic	1.5	0	0
51	Knock Out Vessel	18V0505	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	KI	2	2.5 kg/m2 (g) to -300 mmWC	90	Toxic/Corrosive	1.2	0	0
52	Hot Water Tank 1	18V0501	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KI	30	5.5 kg/cm2 g/ FV	150	General Service	12.301	0	0
53	Hot Water Tank 2	18V0502	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KI	20	5.5 kg/cm2 g/FV	150	General Service	4.2	0	0
54	H2SO4 Charging POT	18V0209	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KI	0.5	2.5 kg/m2 (g) to -300 mmWC	90	Corrosive	0.5	0	0
55	CRT-09 Day Tank	17V0101	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	15	-0.1 / 3.5	30/140	General Service	3.075	0	0
56	AHF Storage Day Tank (Horizontal Tank/Dished End)	17V0102	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	KL	10		6	Toxic & corrosive	2.5	0	0
57	Recovered HAF Day Tank (Vertical Vessel/Dished End/External Impeted)	17V0103	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	2		6	Toxic & corrosive	1.25	0	0
58	15% K2CO3 solution day Tank	17V0104	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS304L	KL	5	0.1	25/80	General Service	1.4	0	0
59	Crude CRF-19 Day Tank	17V0105	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	15	-0.1 / 3.5	30/80	General Service	3.3	0	0
60	Moisture Column Bottom Cut Collection Vessel (Vertical Vessel/Dished End)	17V0110	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	8	-0.1 / 3.5	30/100	Flammable	2.5	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
61	CRF-19 Day Tank	17V0111	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	12	-0.1/3.5	35/100	Flammable	3.785	0	0
62	Residue Collection Vessel (Vertical Vessel/Dished End)	17V0113	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	2	-0.1 / 3.5	30/80	General service	1.005	0	0
63	Process Drain Tank (Horizontal Vessel/Dished End)	17V0125	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	1	-0.1 / 3.5	20/100	Toxic	0.8	0	0
64	Expansion Vessel (Dished End)	17V0123	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	2	3.5	25/120	General Service	1.065	0	0
65	Moisture Column Decanter (Vertical vessel / Dished End)	17V0108	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.8	FV/3.5	5/150	General Service	0.5	0	0
66	Moisture Cut Receiver (Water Layer)	17V0124	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.5	FV / 3.5	25/80	General service	0.5	0	0
67	Moisture Column Vacuum Trap Vessel (Vertical Vessel/ Dished End)	17V0120	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.3	FV/3.5	20 / 150	General Service	0.5	0	0
68	CRF-19 Distillate receiver	17V0121	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	3	FV / 3.5	20/150	Flammable	1.15	0	0
69	Purification Column Vacuum Trap Vessel	17V0122	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS 316L	KL	0.3	FV/3.5	20/150	General Service	0.5	0	0
70	Knock Out Pot 1 (Dish End/ External Impetted vessel)	17V0126	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	3	-0.1 / 6	30/150	Toxic	1.415	0	0
71	Knock Out Pot 2 (Dish End/ External Impetted vessel)	17V0127	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	20	FV/8	30/150	Toxic	3.345	0	0
72	Distilled Product collection receiver-B	16V0103B	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	5	FV/3.5	0/150	Toxic	2.085	0	0
73	Distilled Product collection receiver-C	16V0103C	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	5	FV/3.5	0/150	Toxic	2.085	0	0
74	Secondary Circuit Vessel	16V0106	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	2.5	-0.1/3.5	0/120	General Service	1.3	0	0
75	FG Day Tank	16V0203	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	SS 316L	KL	15	-0.1 /0.1	0/150	Toxic	3.225	0	0
76	PSV Vent collection Tank	16V0205	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	KL	5	FV/3.5	0/200	Toxic	1.76	0	0
77	Utility Drain Vessel	16V0108	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	5	-0.1/0.1+FOL	0/150	General Service	1.76	0	0
78	LP Condensate Vessel	16V0109	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	5	-0.1/0.1+FOL	0/180	General Service	1.76	0	0
79	Train-1 PCBDC Storage Storage Tank	14ST0602	Site Fabricated	Metallic Tanks, Vessels (OSBL) - Site Fabricated	Tank/Vessel	1	SS 316L	KL	300	-300mmwcg to 0.1 kg/cm2g+FOL	80	General Service	32.05	0	0
80	Train-1 PCBTC storage tank	14ST0603	Site Fabricated	Metallic Tanks, Vessels (OSBL) - Site Fabricated	Tank/Vessel	1	SS 316L	KL	400	-300mmwcg to 0.1 kg/cm2g+FOL	80	General Service	29.8	0	0
81	Train-1 Residue Storage tank	14ST0604	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	20	2.5 kg/m2 (g) to -1000 mmWc	80	Flammable	3.345	0	0
82	Train-2 OCBDC Storage Storage Tank	14ST0606	Site Fabricated	Metallic Tanks, Vessels (OSBL) - Site Fabricated	Tank/Vessel	1	SS 316L	m3	400	-300mmwcg to 0.1 kg/cm2g+FOL	80	General Service	29.8	0	0
83	Train-2 OCBTC storage tank	14ST0607	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	m3	200	-300mmwcg to 0.1 kg/cm2g+FOL	80	General Service	22.96	0	0
84	Train-2 Residue Storage tank	14ST0608	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	m3	20	2.5 kg/m2 (g) to -1000 mmWC	80	Flammable	3.345	0	0
85	Pure OCT Storage Tank	13ST0601	Site Fabricated	Metallic Tanks, Vessels (OSBL) - Site Fabricated	Tank/Vessel	1	SS 316L	KL	400	-500mmwc / 1000mmwc + FOL	80	Flammable	24.55	0	0
86	Pure PCT Storage Tank	13ST0604	Site Fabricated	Metallic Tanks, Vessels (OSBL) - Site Fabricated	Tank/Vessel	1	SS 316L	KL	400	-500mmwc / 1000mmwc + FOL	80	Flammable	24.55	0	0
87	DCT Mixture Storage tank	13ST0606	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	100	-1000mmwc to 2.5	90	Flammable	14.275	0	0
88	Product Storage Tank	16ST0601	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	50	-0.1 /0.1	0/150	Toxic	5.661	0	0

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89	Product Storage Tank	16ST0602	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	50		0/150	Toxic	5.661	0	0
90	CRT-34 storage tank	18ST0603	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	80	(0.1 +FOL ) kg/cm2 g/ to -1000 mmWC g	110	Toxic	10.16	0	0
91	CRT-35 storage tank	18ST0601	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	50	(0.1 +FOL ) kg/cm2 g/ to -1000 mmWC g	150	Toxic	8.618	0	0
92	CRT-36 storage tank	18ST0602	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	(0.1 +FOL ) kg/cm2 g/ to -1000 mmWC g	125	Toxic	7.397	0	0
93	Solvent 1 Storage tank	4V0251	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
94	Solvent 2 Storage tank	4V0252	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
95	Solvent 3 Storage tank	4V0253	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
96	Solvent 4 Storage tank	4V0254	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
97	RM-1 Storage tank	4V0255	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
98	RM-4 Storage tank	4V0257	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
99	RM-2 Storage tank	4V0258	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
100	Sellable Mix solvent Storage tank	4V0259	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
101	Product 1 Storage tank	4V0261	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	50	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	8.618	0	0
102	Product 2 Storage tank	4V0262	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
103	RM-5 Storage tank	4V0236	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
104	Solvent-5 Storage tank	4V0245	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
105	Incineration Storage Tank	4V0247	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	7.397	0	0
106	Priming Pot for RM-1	4V0233	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
107	Priming Pot for solvent-1	4V0234	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
108	Priming Pot for solvent-3	4V0235	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
109	Priming Pot for RM-5	4V0264	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
110	Priming Pot for solvent-5	4V0266	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
111	Priming Pot for solvent-4	4V0267	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
112	Priming Pot for RM-2	4V0278	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
113	Priming Pot for solvent-2	4V0241	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1	-1000 mmWCg to 2.5 kg/cm2g	-25/200	Toxic/Flammable/Reactive	0.5	0	0
114	CRF-19 Storage Tank	17ST0601A/B	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	2	SS 316L	KL	200	-0.05/ 0.1 +FOL	30/80	Flammable	25.1	0	0
115	KF/KCI Storage Tank	17ST0603	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	KL	50	-0.05/ 0.1 +FOL	30/80	General Service	8.603	0	0
116	PCBTF Distillation Residue Tank	17ST0605	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	40	-0.05/ 0.1 +FOL	30/80	Flammable	8.048	0	0
117	Filtrate Collection tank/Stripper Feed Tank	8FCT01024	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	KL	25 Dia: 3m, LD: 3.6m, FB: 0.5m	-0.05/ 0.1 +FOL	20/70	Toxic	8	0	0
118	Stripper Bottom Storage tank	8ST0101	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	20	0.1+Full of Liquid	20/100	General Service	4.2	0	0
119	Ammonia Recovery Scrubber 1 storage tank	8ST0102	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS304L	KL	3	-400mmwcg/0.1+Full of Liquid	20/70	General Service	1.39	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
120	Ammonia Recovery Scrubber storage tank 2	8ST0103	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	SS304L	KL	2	-400mmwcg/0.1+Full of Liquid	20/70	General Service	1.39	0	0
121	Stripper Condensate Collection tank	8ST01106	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Tank/Vessel	1	CS	KL	38	0.1+Full of Liquid	20/90	General Service	11.73	0	0
122	H2SO4 Storage Tank	8ST01014	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	CS	KL	3	- 0.05 / 0.1 + FOL	20/70	Toxic/Ractive/Corrosive	1.76	0	0
123	H2O2 Storage Tank	8ST01017	Fabricated	Metallic Tanks, Vessels (Critical)	Tank/Vessel	1	Limpeted Stainless Steel 316L	Liters	20000 2.6m Dia X 3.80 m Height+ 0.5m FB Guard Size: 6.6m L X 6.6 m W X 0.8mLD +0.5 FB	- 0.05 / 0.1 + FOL	20/70	Toxic/Ractive/Corrosive	6.77	0	0
124	Train-1 Loop Reactor	14R0101	Std Process	Glass Lined Equipment	Reactor	1	GLR	KL	23				21.5	0	0
125	Train-1 Batch reactor with agitator-A/B (Jacketed)	14R0102A/B	Std Process	Glass Lined Equipment	Reactor	2	GLR	KL	12.5				24	22	44
126	Train-1 Loop Reactor Holdup vessel	14V0101	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	10				10	0	0
127	Train-1 Loop Reactor Mass Collection vessel	14V0102	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	10				10	0	0
128	Train-1 LB column	14C0202	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	20.4 packed M Ht	1000 MM				25.2	0	0
129	Train-1 HCLStripper-1	14C0201	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	6 M packed Ht	400 MM				4	0	0
130	Train-1 CRT-07 Column	14C0203	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	20.4 M packed Ht	1400 MM				35.28	0	0
131	Train-1 HCL stripper-2	14C0204	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	5.4 M packed ht	400 MM				4	0	0
132	Train-1 CRT-08 column	14C0205	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	17.4 M packed Ht	1400 MM				35.28	0	0
133	Train-1 CRT-09 Column	14C0206	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	6 M packed ht	1000 MM				8	0	0
134	Dilute HCL Scrubber	14C0304	Fabricated	Non-Metallic	Column	1	MOC = PP FRP Packing type = Pall rings Packing MOC = PP	MM 6 M Ht	650				6	0	0
135	Caustic Scrubber	14C0305	Fabricated	Non-Metallic	Column	1	MOC = PP FRP Packing type = Pall rings Packing MOC = PP	MM 6 M Ht	900				12	0	0
136	Guard Scrubber	14C0306	Fabricated	Non-Metallic	Column	1	MOC = PP FRP Packing type = Pall rings Packing MOC = PP	MM 6 M Ht	1250				3	0	0
137	Train-1 LB Column Top Distillate collection vessel	14V0201	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1				2.2	0	0
138	Train-1 CRT-07 Top column Distillate collection vessel	14V0202	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1.6				3.2	0	0
139	Train-1 CRT-08 Column Distillate Collection Vessel	14V0203	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1.6				3.2	0	0
140	Train-1 CRT-09 Column Distillate collection vessel	14V0204	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1				2.2	0	0
141	Train-1 LB column vacuum Trap	14V0205	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
142	Train-1 CRT-07 column Vacuum trap	14V0206	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
143	Train-1 CRT-08 Vacuum trap	14V0207	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
144	Train-1 CRT-09 Vacuum Trap	14V0208	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
145	Train-1 CRT-09 column residue collection vessel	14V0209	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0




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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
146	Train-1 LB side draw collection vessel	14V0212	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
147	Train-1 HCL Stripper-1 Reflux Pot	14V0213	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
148	Train-1 HCL Stripper-2 Reflux Drum Pot	14V0214	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
149	Train-1 CRT-07 Day Tank	14V0402A/B	Std Process	Glass Lined Equipment	Tank/Vessel	2	MSGSL	KL	2				6.8	0	0
150	Train-1 Batch Reactor Feed Vessel	14V0406	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	32				26.3	0	0
151	Train-1 Batch Reactor Mass Collection Vessel	14V0407	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	32				26.3	0	0
152	Train-2 Loop Reactor	14R0701	Std Process	Glass Lined Equipment	Reactor	1	GLR	m3	23				23	0	0
153	Train-2 Batch reactor with agitator-A/B/C (Jacketed)	14R0702A/B/C	Std Process	Glass Lined Equipment	Reactor	3	GLR	m3	12.5				36	18.5	55.5
154	Train-2 Loop Reactor Holdup vessel	14V0701	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	10				10	0	0
155	Train-2 Loop Reactor Mass Collection vessel	14V0702	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	10				10	0	0
156	Train-2 HCLStripper-1	14C0801	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	6 M packed Ht	400 MM				4	0	0
157	Train-2 LB column	14C0802	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	20.4 M packed Ht	500 MM				13	0	0
158	Train-2 CRTF-10 Column	14C0803	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	20.4 M packed Ht	1400 MM				35.28	0	0
159	Train-2 HCL stripper-2	14C0804	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	6 M packed Ht	400 MM				4	0	0
160	Train-2 CRT-11 column	14C0805	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	17.4 M packed Ht	1000 MM				21.6	0	0
161	Train-2 CRT-12 Column	14C0806	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL/Ceramic Packing	5.4 M packed ht	1000 MM				8	0	0
162	Train-2 LB Column Distillate collection vessel	14V0801	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.63				1.6	0	0
163	Train-2 CRTF-10 column Distillate collection vessel	14V0802	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1.6				3.2	0	0
164	Train-2 CRT-11 Column Distillate Collection Vessel	14V0803	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1				2.2	0	0
165	Train-2 CRT-12 Column Distillate collection vessel	14V0804	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.63				1.6	0	0
166	Train-2 LB column vacuum Trap	14V0805	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
167	Train-2 CRTF-10 column Vacuum trap	14V0806	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
168	Train-2 CRT-11 Vacuum trap	14V0807	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
169	Train-2 CRT-12 Vacuum Trap	14V0808	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
170	Train-2 CRT-12 column residue collection vessel	14V0809	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
171	Train-2 CRT-12 low boiler draw vessel	14V0811	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
172	Train-2 HCL Stripper-1 Reflux Pot	14V0812	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
173	Train-2 HCL Stripper-2 Reflux Pot	14V0813	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0
174	Train-2 CRTF-10 Day Tank	14V0902A/B	Std Process	Glass Lined Equipment	Tank/Vessel	2	MSGSL	m3	8				15.2	0	0
175	Train-2 Batch Reactor Feed Vessel	14V0906	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	40				29	0	0
176	Train-2 Batch Reactor Mass Collection Vessel	14V0907	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	40				29	0	0
177	Process Drain Vessel	14V0507	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	2				3.4	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW	
178	Process Vent Tank	14V0509	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	1				2.2	0	0	
179	Organic Scrubber	14C0301	Std Process	Glass Lined Equipment (Column)	Column	1	MOC = MSGSL Packing type = Intalox Saddle Packing MOC = Ceramic	MM 4 M Ht	900				6	0	0	
180	Sat. HCL Scrubber	14C0302	Std Process	Glass Lined Equipment (Column)	Column	1	Scrubber MOC = MSGSL Packing type = Intalox Saddle Packing MOC = Ceramic	MM 4 M Ht	950				6	0	0	
181	CRT-09 Recovery column	14C0307	Std Process	Glass Lined Equipment (Column)	Column	1	MOC = MSGSL Packing type = Structured ceramic packing	MM 3.0 M Ht	250				6	0	0	
182	Organic Scrubber sump	14V0301	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	4				2.2	0	0	
183	Sat. HCL scrubber sump	14V0302	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	3				5.2	0	0	
184	Sat.HCL Decanter vessel	14V0307	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1.96				3.4	0	0	
185	waste organic vessel	14V0308	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				2.2	0	0	
186	CRT-09 recovery column receiver	14V0309	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	1				2.2	0	0	
187	CRT-09 Recovery column vacuum receiver	14V0310	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	0.25				0.9	0	0	
188	HCl Stripper feed vessel	13V0105	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	32				26.3	0	0	
189	Aqueous Drain tank	13ST0201	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	5				6.5	0	0	
190	HCl Stripper	13C0201	Std Process	Glass Lined Equipment (Column)	Column	1	Shell-MSGSL Internals-Ceramic structured packing	m (dia.) m (pkd. ht.)	0.4/0.95 4				6	0	0	
191	HCl Stripper reflux pot	13V0201	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	0.63				1.6	0	0	
192	HCl Stripper glass pot	13V0202	Std Process	Glass Pot	Tank/Vessel	1	Glass	Litre	50				0.5	0	0	
193	Falling Film Absorber & Tailgas Tower	13PK0401	Technology Package	Graphite Equipment (Alberger)	Alberger	1	FFA -(Shell: CS Tubes: Graphite) Tail gas Tower:- (Column: Impervious Graphite Packing: Random-Ceramic intalox saddle)	m2 kcal/hr	VTS				10	0	0	
194	CRF-2 Column Glass Pot	13V0311	Std Process	Glass Pot	Tank/Vessel	1	Glass	Liter	50				0.5	0	0	
195	Toluene Column Glass pot	13V0204	Std Process	Glass Pot	Tank/Vessel	1	Glass	Litre	50				0.5	0	0	
196	MSGSL vessel ( before washing)	13V0303	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	40				29	0	0	
197	Co-catalyst Mixing Vessel	13V0301	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	0.2				0.9	2.2	2.2	
198	Acidic knock out drum	13V0413	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	2.5				3.7	0	0	
199	Decantor 1	13V0801	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m	Dia = 1.3 TL-TL Height = 4.4				7	0	0	
200	Decantor 2	13V0802	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m	Dia = 1.1 TL-TL Height = 4.89				6	0	0	
201	Decantor 3	13V0803	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m	Dia = 1.1 TL-TL Height = 4.89				6	0	0	
202	Washer 1	13R0801	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	4				5.2	7.5	7.5	
203	Washer 2	13R0802	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	4				5.2	7.5	7.5	
204	Washer 3	13R0803	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	4				5.2	7.5	7.5	
205	Aq vessel 1	13V0804	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	8				7.6	0	0	
206	Aq vessel 2	13V0805	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	8				7.6	0	0	
207	Aq vessel 3	13V0806	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	8				7.6	0	0	
208	Na2S2O3 Preparation vessel	13V0807	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	6.3				7	15	15	
209	Charging Vessel	16V0101	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	5				6.5	0	0	
210	Reaction Reactor	16R0101	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	20				18	22	22	

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
211	Reactor reflux collection vessel	16V0102	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	1				2.2	0	0
212	Distillation Reactor	16R0102	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	16				15.3	22	22
213	Distillation Column	16C0101	Std Process	Glass Lined Equipment (Column)	Column	1	Column: MS Glass lined Packing: Ceramic	M	1.2 Dia X 7 Pkd. Ht m				10.08	0	0
214	Distilled Water cut collection vessel-A	16V0103A	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	1				2.2	0	0
215	Decanter	16V0105	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	2				3.4	0	0
216	Distillation HB collection receiver	16V0104	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	1.6				3.2	0	0
217	Distillation Vacuum pot	16V0107	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	0.5				1.5	0	0
218	Off Spec Day Tank	16V0202	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	20				18	0	0
219	Organic Collection Vessel	16V0112	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	1				2.2	0	0
220	Residue Collection Reactor	18R0301	Std Process	Glass Lined Equipment - Lot -2	Reactor	1	MSGSL	KI	3				3.4	5.5	5.5
221	Residue Neutralization Reactor	18R0302	Std Process	Glass Lined Equipment - Lot -2	Reactor	1	MSGSL	KI	8				3.4	5.5	5.5
222	Preparation Reactor - 1	18R0201	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
223	Main Reactor - 1	18R0202	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
224	Cooling Reactor - 1	18R0203	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
225	Preparation Reactor - 2	18R0204	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
226	Main Reactor - 2	18R0205	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
227	Cooling Reactor - 2	18R0206	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
228	Preparation Reactor - 3	18R0207	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
229	Main Reactor - 3	18R0208	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
230	Cooling Reactor - 3	18R0209	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	16				15.3	22	22
231	Main Reactor - 1 Reflux Vessel	18V0202	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0
232	Main Reactor - 2 Reflux Vessel	18V0204	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0
233	Main Reactor - 3 Reflux Vessel	18V0207	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0
234	ANF - 1	18F0201	Technology Package	ANF- Hastelloy	ANF	1	CS + Alloy C-276 explosion bonded	m2	4				12	15	15
235	ANF - 2	18F0202	Technology Package	ANF- Hastelloy	ANF	1	CS + Alloy C-276 explosion bonded	m2	4				12	15	15
236	ANF - 3	18F0203	Technology Package	ANF- Hastelloy	ANF	1	CS + Alloy C-276 explosion bonded	m2	4				18	15	15
237	Stripper Feed Vessel - 1	18V0205	Std Process	Glass Lined Equipment - Lot -2	Tank/Vessel	1	MSGSL	KI	20				18	0	0
238	Stripper Feed Vessel - 2	18V0208	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	10				10	0	0
239	Recycle Reactor - 1	18R0210	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	12.5				12	18.5	18.5
240	Recycle Reactor - 2	18R0211	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	12.5				12	18.5	18.5
241	Recycle Reactor - 3	18R0212	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KI	12.5				12	18.5	18.5
242	Flashing Vessel - 1	18V0301	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	2.5				3.7	0	0
243	Flashing Vessel - 2	18V0304	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0
244	CRT-34 Vacuum Trap Vessel	18V0302	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	0.63				1.6	0	0
245	CRT-35 Vacuum Trap Vessel	18V0305	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	0.63				1.6	0	0
246	HCl Stripper - 1 Vacuum Trap Vessel	18V0310	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	0.63				1.6	0	0
247	HCl Stripper - 2 Vacuum Trap Vessel	18V0311	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	0.63				1.6	0	0
248	Organic Scrubber Vessel - 1	18V0409	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	12.5				12	0	0
249	Organic Scrubber Vessel - 2	18V0410	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	12.5				12	0	0
250	Saturated HCl Vessel - 1	18V0401	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				3.7	0	0
251	Saturated HCl Vessel - 2	18V0402	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0
252	Organic Layer Vessel - 1	18V0405	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0






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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
253	Organic Layer Vessel - 2	18V0406	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				2.2	0	0
254	U/G Drain Collection vessel	18V0507	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	6.3				7	0	0
255	CRT-32 Day Tank	18V0104	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	2.5				5.2	0	0
256	CRT-22 Day Tank	18V0105	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				3.7	0	0
257	Liquid Jet Ejector - 1 Vessel	18V0316	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	1				7	0	0
258	Liquid Jet Ejector - 2 Vessel	18V0317	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KI	6.3				7	0	0
259	HCl Stripper - 1 column	18C0301	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.5				4	0	0
260	CRT-34 Distillation Column	18C0302	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	1.1				11.52	0	0
261	HCl Stripper - 2 column	18C0303	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.3				3	0	0
262	CRT-35 Distillation Column	18C0304	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.65				8	0	0
263	Organic Scrubber - 1 Column	18C0405	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.65				8	0	0
264	Organic Scrubber - 2 Column	18C0406	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.5				6	0	0
265	Saturated HCl Scrubber - 1 Column	18C0401	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.65				8	0	0
266	Saturated HCl Scrubber - 2 Column	18C0402	Std Process	Glass Lined Equipment (Column)	Column	1	MSGSL	Diameter (m), Packed height(m)	0.45				6	0	0
267	Discharge Effluent Holding Tank	8T02002	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	Liters	17				3	0	0
268	Alkali Dosing Tank/Lime Dosing Tank (Common for 3 Streams)	8DT01005	Fabricated	Non-Metallic	Tank/Vessel	1	Polypropylene	Liters	3000				2	0	0
269	FeSO4 Dosing Tank	8DT01008A/B	Fabricated	Non-Metallic Lot-2	Tank/Vessel	2	HDPE	Liters	3000				1	0	0
270	pH Neutralization Reactor	8R01011	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	22.7				23	22	22
271	Fenton Reactor	8R01018	Std Process	Glass Lined Equipment	Reactor	1	MSGSL	KL	22.7				23	22	22
272	Polyelectrolyte Dosing Tank	8DT01021B	Std Package	Dosing tank with Agitator & Pump	Tank/Vessel	1	High Density Polyethylene/ Fiberglass Reinforced Plastics	Liters	800				1	0	0
273	Polyelectrolyte Dosing Tank	8DT01077A/B	Std Package	Dosing tank with Agitator & Pump	Tank/Vessel	2	HDPE	Liters	400				1	0	0
274	Guard Scrubber Circulation Heat Exchanger	8.00E+105	Std Process	Graphite Equipment	HE	1	Graphite	SQM	22				2.5	0	0
275	Train-1 CRT-07 Storage tank	14ST0601	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	40				29	0	0
276	Train-2 CRTF-10 Storage tank	14ST0605	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	m3	40KLX2				60	0	0
277	RM-3 Storage tank	4V0256	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	30				26.3	0	0
278	Priming Pot for 35% HCL	6V0102	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	0.1				0.53	0	0
279	Priming Pot for RM-3	4V0268	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL	KL	0.1				0.53	0	0
280	Train 1 HCL Stripper-1 Liquid Jet Ejector	14PK0201	Std Package	Liquid Jet Ejector	Graphite Ejector	1	Graphite	Am3/hr	100				3	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
281	Train 1 HCL Stripper-2 Liquid Jet Ejector	14PK0202	Std Package	Liquid Jet Ejector	Graphite Ejector	1	Graphite	Am3/hr	100				3	0	0
282	Train-1 Loop Reactor Primary Condensor	1.40E+102	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	70				3	0	0
283	Train-1 Loop Reactor Secodary Condensor	1.40E+103	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	11				1.5	0	0
284	Train-1 Loop Reactor Circulation Cooler (Vertical)	1.40E+104	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	43				1.5	0	0
285	Train-1 Loop Reactor mass cooler (Horizontal)	1.40E+105	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	12.5				2	0	0
286	Train-1 Batch Reactor A/B primary Condensor	14E0105A/B	Std Process	Graphite Equipment	HE	2	PTFE Impregnated Graphite	m2	8				0.88	0	0
287	Train-1 Batch Reactor A/B Secondary Condensor	14E0106A/B	Std Process	Graphite Equipment	HE	2	PTFE Impregnated Graphite	m2	2				0.66	0	0
288	Train-1 HCL Stripper-1 Column Reboiler	1.40E+202	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	5				0.5	0	0
289	Train-1 LB Column Reboiler	1.40E+203	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	61				2	0	0
290	Train-1 CRT-07 Column Reboiler	1.40E+204	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	153				6	0	0
291	Train-1 HCl Stripper-2 Column reboiler	1.40E+205	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	7				0.56	0	0
292	Train-1 CRT-08 Column reboiler	1.40E+206	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	134				6	0	0
293	Train-1 CRT-09 Column Reboiler	1.40E+207	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	47				1.5	0	0
294	Train-1 HCLStripper-1 Primary Condensor	1.40E+208	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1				0.5	0	0
295	Train-1 HCLStripper-1 Secondary Condensor	1.40E+209	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.5				0.5	0	0
296	Train-1 LB column Primary Condensor	1.40E+210	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	36				1.84	0	0
297	Train-1 LB Column Secondary Condensor	1.40E+211	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	6				0.5	0	0
298	Train-1 CRT-07 column primary Condensor	1.40E+212	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	46				1.5	0	0
299	Train-1 CRT-07 column Secondary Condensor	1.40E+213	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	8				0.984	0	0
300	Train-1 HCL stripper-2 Column primary condensor	1.40E+214	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1				0.5	0	0
301	Train-1 HCL stripper-2 Column Secondary condensor	1.40E+215	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.5				0.5	0	0
302	Train-1 CRT-08 Column Primary Condensor	1.40E+216	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	37				4	0	0
303	Train-1 CRT-08 Column Secondary Condensor	1.40E+217	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	6				0.984	0	0
304	Train-1 CRT-09 Column Primary condensor	1.40E+218	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	23				3.425	0	0
305	Train-1 CRT-09 Column Secondary condensor	1.40E+219	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	2.5				0.761	0	0
306	Train-1 CRT-07 bottom cooler	1.40E+220	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	6				0.8	0	0
307	Train-1 Residue cooler	1.40E+221	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1				1.04	0	0
308	Train-1 LB side draw cooler	1.40E+222	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.5				0.5	0	0
309	Train-2 Loop Reactor Primary Condensor	14E0701	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	73				3	0	0
310	Train-2 Loop Reactor Secodary Condensor	14E0702	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	10				1	0	0
311	Train-2 Loop Reactor Circulation Cooler (Vertical)	14E0703	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	45				1.5	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
312	Train-2 Loop Reactor mass cooler (Horizontal)	14E0704	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	13				2	0	0
313	Train-2 Batch Reactor A/B/C primary Condensor	14E0705A/B/C	Std Process	Graphite Equipment	HE	3	PTFE Impregnated Graphite	m2	8				1.32	0	0
314	Train-2 Batch Reactor A/B/C Secondary Condensor	14E0706A/B/C	Std Process	Graphite Equipment	HE	3	PTFE Impregnated Graphite	m2	1				1.5	0	0
315	Train-2 HCL Stripper-1 Column Reboiler	14E0801	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	11				1.5	0	0
316	Train-2 LB column -1 Column Reboiler	14E0802	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	12				1.5	0	0
317	Train-2 CRTF-10 Column Reboiler	14E0803	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	104				3	0	0
318	Train-2 HCl Stripper-2 Column reboiler	14E0804	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	8				0.635	0	0
319	Train-2 CRT-11 Column reboiler	14E0805	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	40				1.5	0	0
320	Train-2 CRT-12 Column Reboiler	14E0806	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	52				2	0	0
321	Train-2 HCLStripper-1 Primary Condensor	14E0807	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1				0.5	0	0
322	Train-2 HCLStripper-1 Secondary Condensor	14E0808	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.5				0.5	0	0
323	Train-2 LB column Primary Condensor	14E0809	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	9.5				0.635	0	0
324	Train-2 LB Column Secondary Condensor	14E0810	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1.5				0.5	0	0
325	Train-2 CRTF-10 column primary Condensor	14E0811	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	42				1.5	0	0
326	Train-2 CRTF-10 column Secondary Condensor	14E0812	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	6				0.5	0	0
327	Train-2 HCL stripper-2 Column primary condensor	14E0813	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1				0.5	0	0
328	Train-2 HCL stripper-2 Column Secondary condensor	14E0814	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.5				0.5	0	0
329	Train-2 CRT-11 Column Primary Condensor	14E0815	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	24				1.55	0	0
330	Train-2 CRT-11 Column Secondary Condensor	14E0816	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	3				0.5	0	0
331	Train-2 CRT-12 Column Primary condensor	14E0817	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	16				2	0	0
332	Train-2 CRT-12 Column Secondary condensor	14E0818	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	2.5				0.5	0	0
333	Train-2 CRTF-10 bottom cooler	14E0819	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	7.5				1.94	0	0
334	Train-2 Residue cooler	14E0820	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	1				0.5	0	0
335	Train-2 CRT-12 side draw cooler	14E0821	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	3.5				1.392	0	0
336	Train-2 HCL Stripper-1 Liquid jet Ejector	14PK0801	Std Package	Liquid Jet Ejector	Graphite Ejector	1	Graphite	Am3/hr	100				3	0	0
337	Train-2 HCL Stripper-2 Liquid jet Ejector	14PK0802	Std Package	Liquid Jet Ejector	Graphite Ejector	1	Graphite	Am3/hr	100				3	0	0
338	Process Vent tank Condensor	14E0506	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	10				1.5	0	0
339	Organic Scrubber Column Recirculation cooler	1.40E+302	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	19				3.77	0	0
340	Sat.HCL scrubber Column Recirculation cooler	1.40E+303	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	9.8				1.52	0	0
341	Unsat. HCL Scrubber column Falling Film absorber with Tail gas Tower (Alberger)	14PK0301	Technology Package	Graphite Equipment (Alberger)	Alberger	1	PTFE Impregnated Graphite	m2	102				4	0	0



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342	Dil HCL scrubber column Recirculation cooler	1.40E+305	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	52.32				3	0	0
343	CRT-09 Recovery column reboiler	1.40E+308	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	7				0.735	0	0
344	CRT-09 recovery column primary condenser	14E0308	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.64				0.5	0	0
345	CRT-09 recovery column secondary condenser	14E0309	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.07				0.5	0	0
346	CRT-09 recovery column bottom cooler	14E0310	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite	m2	0.83				0.5	0	0
347	UV Lamp Nitrogen gas cooler	1.40E+108	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	SS 304L	m2	2.5				0.5	0	0
348	Train-1 DM Water Cooler-1	14E0501	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	SS 304	m2	42				0.6	0	0
349	Train-2 DM Water Cooler -2	14E0503	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	SS 304	m2	45				0.6	0	0
350	Hot water Circulation PHE	14E0505A/B	Std Process	PHE	PHE	2	SS 304	m2	200				1	0	0
351	Toluene chlorinator top condenser (Primary)	1.30E+102	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 4115				1	0	0
352	Toluene chlorinator top condenser (Secondary)	1.30E+103	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 20573				0.5	0	0
353	HCl Stripper Top Condensor (Primary)	1.30E+202	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 49287				0.5	0	0
354	HCl Stripper Top Condensor (Secondary)	1.30E+203	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 12698				0.5	0	0
355	Toluene Column Top Condensor (Primary)	1.30E+205	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 843276				1.5	0	0
356	Chlorinator-2 top condenser	1.30E+303	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 267				0.5	0	0
357	Common Vent condenser	13E0401	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 17156				1	0	0
358	30% HCl circulation cooler	13E0402	Std Process	Graphite Equipment	HE	1	Graphite	m2 kcal/hr	VTS 3051				1	0	0
359	Toluene reactor circulation filter-1	13F0101A	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS Elements- Ceramic	m3/hr micron	1.5 3				0.5	0	0
360	Toluene reactor circulation filter-2	13F0101B	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS Elements- Ceramic	m3/hr micron	1.5 3				0.5	0	0
361	Stripper feed filter	13F0102A	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS PTFE Elements- Ceramic	m3/hr micron	13 0.45				0.5	0	0
362	Stripper feed filter	13F0102B	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS PTFE Elements- Ceramic	m3/hr micron	13 0.45				0.5	0	0
363	Chlorine Filter	13F0103A	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS Elements-Ceramic	kg/hr micron	4409 1				0.5	0	0
364	Chlorine Filter	13F0103B	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS Elements-Ceramic	kg/hr micron	4409 1				0.5	0	0
365	HCl Stripper Filter	13F0201A	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS PTFE Elements- Ceramic	m3/hr micron	92 0.4				0.5	0	0
366	HCl Stripper Filter	13F0201B	Std Package	Cartridge Filter (PIN-085)	Cartridge Filter	1	Casing-CS PTFE Elements- Ceramic	m3/hr micron	92 0.4				0.5	0	0
367	Centrifugal blower for Guard Scrubber -2	13B0402A	Std Process	Centrifugal Blower	Centrifugal Blower	1	PP-FRP	m3/hr Head mmwc g	2500 -2000				1	30	30
368	Centrifugal blower for Guard Scrubber-2	13B0402B	Std Process	Centrifugal Blower	Centrifugal Blower	1	PP-FRP	m3/hr Head mmwc g	2500 -2000				1	30	30
369	CRF-1 scrubber column	13C0401	Fabricated	Non-Metallic	Column	1	Column:PVDF-FRP Packing: PTFE (Random Pall ring)	m m	Packed Height ~ 6 Column Dia ~ 0.4				2	0	0
370	30% HCl saturated scrubber	13C0402	Fabricated	Non-Metallic	Column	1	Column: PVDF-FRP Packing: PTFE (Random Pall ring)	m m	Packed Height ~ 6 Column Dia ~ 0.6				2	0	0
371	Guard Scrubber-1	13C0404	Fabricated	Non-Metallic	Column	1	Shell - PP-FRP Packing - PTFE random packing	m m	Packed Height ~ 6 Column Dia ~ 0.5				2	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
372	Guard Scrubber-2	13C0405	Fabricated	Non-Metallic	Column	1	Shell - PP-FRP Packing - PTFE random packing	m m	Packed Height ~ 6 Column Dia ~ 0.5				2	0	0
373	30% HCl saturated scrubber decanter	13V0402	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF-FRP	KL	5				1.5	0	0
374	Toluene reactor bottom cooler-1	13E0103A	Std Process	PHE	PHE	1	Hastealloy C276	m2 kcal/hr	VTS 836580				2	0	0
375	Toluene reactor bottom cooler-2	13E0103B	Std Process	PHE	PHE	1	Hastealloy C276	m2 kcal/hr	VTS 836580				2	0	0
376	Toluene reactor bottom cooler-3	13E0103C	Std Process	PHE	PHE	1	Hastealloy C276	m2 kcal/hr	VTS 836580				1.5	0	0
377	Chlorinator-2 exotherm cooler	1.30E+302	Std Process	PHE	PHE	1	Hastealloy C276	m2 kcal/hr	VTS 179040				1.5	0	0
378	Heat exchanger for Guard Scrubber-1	13E0407	Std Process	PHE	PHE	1	Titanium	kcal/hr	59693				1.5	0	0
379	Heat exchanger for Guard Scrubber-2	13E0408	Std Process	PHE	PHE	1	Titanium	kcal/hr	59693				1.5	0	0
380	Hot water system Heat exchanger	13E0501	Std Process	PHE	PHE	1	SS304	m2 kcal/hr	VTS 24890				0.5	0	0
381	Chlorine heater	1.30E+106	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-CS	m2	7				0.7	0	0
382	HCl Stripper Reboiler	1.30E+204	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-Monel	m2	36.1				3	0	0
383	Toluene Column Reboiler	1.30E+206	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell-CS Tube-SS316L	m2 kcal/hr	VTS 735142				25	0	0
384	Toluene Column Top product Cooler	1.30E+207	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	21.6				0.8	0	0
385	Heavies Removal Column Top Condensor (Primary)	1.30E+208	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	56.2				2.5	0	0
386	Heavies Removal Column Top Condensor (Secondary)	1.30E+209	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	3.7				0.6	0	0
387	Heavies Removal Column Reboiler	1.30E+210	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell-CS Tube-SS316L	m2 kcal/hr	VTS 554135				22	0	0
388	Heavies Removal Column Top product Cooler	1.30E+211	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	27.9				1.1	0	0
389	Heavies Removal Column Bottom product Cooler	1.30E+212	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-SS316L	m2	1.9				0.5	0	0
390	CRF-1 Column Top Condensor (Primary)	13E0212A	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-SS316L	m2	590				50	0	0
391	CRF-1 Column Top Condensor (Primary)	13E0212B	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-SS316L	m2	590				50	0	0
392	CRF-1 Column Top Condensor (Secondary)	1.30E+214	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	37.1				0.7	0	0
393	CRF-1 Column Reboiler	13E0214A	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell-CS Tube-SS316L	m2 kcal/hr	VTS 4357683				30	0	0
394	CRF-1 Column Reboiler	13E0214B	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell-CS Tube-SS316L	m2 kcal/hr	VTS 4357683				30	0	0
395	CRF-1 Column Top product Cooler	1.30E+216	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	21.6				1	0	0
396	CRF-1 Column Bottom product Cooler	1.30E+217	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	18				0.8	0	0
397	CRF-2 Purification Column Top Condensor (Primary)	1.30E+305	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	29.1				1.5	0	0
398	CRF-2 Purification Column Top Condensor (Secondary)	1.30E+306	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	0.8				0.5	0	0
399	CRF-2 Purification Column Reboiler	1.30E+304	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell-CS Tube-SS316L	m2 kcal/hr	VTS 391551				4	0	0
400	CRF-2 Column Top Product Cooler	1.30E+307	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-SS316L Tube-SS316L	m2	14.2				0.7	0	0
401	CRF-2 Column Bottom Product Cooler	1.30E+308	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-SS316L	m2	6.2				0.6	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
402	Fresh CRF-1 cooler	13E0403	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell-CS Tube-SS316L	m2	3				0.5	0	0
403	CRF-1 Scrubber Bottom tank	13V0401	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF-FRP	KL	1				0.5	0	0
404	30% HCl bottom tank	13V0404	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF-FRP	KL	3				1	0	0
405	Organic layer tank	13V0414	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF-FRP	KL	1				0.5	0	0
406	FFA Bottom Tank	13V0403	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF-FRP	KL	4				1	0	0
407	30% organic free HCL storage tank	13V0406	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	60				25	0	0
408	Guard scrubber Outlet Storage tank	13V0408	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	10				4	0	0
409	Guard scrubber-1 bottom tank	13V0415	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	8				2	0	0
410	Guard scrubber-2 bottom tank	13V0417	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	8				2	0	0
411	Catch pot for Guard Scrubber-2	13V0418	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	0.5				0.5	0	0
412	DM Water Tank	13V0409	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	5				1	0	0
413	Safety Shower tank	13V0506	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	5				1	0	0
414	Main Reactor - 1 Condenser	1.80E+203	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				1.5	0	0
415	Main Reactor - 2 Condenser	1.80E+206	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				1.5	0	0
416	Preparation Reactor - 1 Condenser	1.80E+202	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
417	Preparation Reactor - 2 Condenser	1.80E+205	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
418	Cooling Reactor - 1 Condenser	1.80E+204	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
419	Cooling Reactor - 2 Condenser	1.80E+207	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
420	Flashing vessel - 1 Reboiler	1.80E+306	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				1.5	0	0
421	HCL Stripper - 1 Reboiler	18E0301C	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				4	0	0
422	HCl Stripper - 1 Primary Condenser	18E0301A	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
423	HCl Stripper - 1 Secondary Condenser	18E0301B	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
424	CRT-34 Distillation Column Reboiler	18E0302B	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				3	0	0
425	CRT-34 Distillation Column Condenser	18E0302A	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				2	0	0




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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
426	Organic Scrubber - 1 cooler	18E0405	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m1	VTS				1.5	0	0
427	Saturated HCl Scrubber - 1 Cooler	18E0401	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
428	Alberger	18PK0401	Technology Package	Graphite Equipment (Alberger)	Alberger	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				10	0	0
429	Guard Scrubber Cooler	18E0404	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				3	0	0
430	Main Reactor - 3 Condenser	1.80E+209	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				1.5	0	0
431	Heating reactor - 3 Condenser	1.80E+208	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				3	0	0
432	Cooling reactor - 3 Condenser	1.80E+210	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
433	Flashing vessel - 2 Reboiler	1.80E+307	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				2	0	0
434	HCL Stripper - 2 Reboiler	18E0303C	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				4	0	0
435	HCl Stripper 2 Primary Condenser	18E0303A	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
436	HCl Stripper - 2 Secondary Condenser	18E0303B	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
437	CRT-35 Distillation Column Reboiler	18E0304B	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				4	0	0
438	CRT-35 Distillation Column Condenser	18E0304A	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				2	0	0
439	Organic Scrubber 2 cooler	18E0406	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				1	0	0
440	Saturated HCl Scrubber 2 cooler	18E0402	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
441	Main reactor 1 Reflux heater	1.80E+211	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
442	Main reactor 2 Reflux heater	1.80E+213	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
443	Main reactor 3 Reflux heater	1.80E+215	Std Process	Graphite Equipment	HE	1	Graphite Block Type PTFE impregnated Utility side CS	m2	VTS				0.5	0	0
444	COD Treatment Heat Exchanger (Block Type)	1.70E+116	Std Process	Graphite Equipment	HE	1	Graphite	m2	25				2	0	0
445	Guard Scrubber Circulation Heat Exchanger (Block type)	1.70E+104	Std Process	Graphite Equipment	HE	1	Graphite block HE	m2	150				6	0	0
446	Alkali Scrubber Circulation Heat Exchanger (block type)	1.70E+105	Std Process	Graphite Equipment	HE	1	Graphite block HE	m2	120				5	0	0
447	Moisture Column Primary Condenser	1.70E+107	Std Process	Graphite Equipment	HE	1	Tubes - Phenolic impregnated graphite Shell - CS	m2	HTA - 15 m2				2	0	0
448	Moisture Column Secondary Condensor	1.70E+108	Std Process	Graphite Equipment	HE	1	Tubes - Phenolic impregnated graphite Shell - CS	m2	HTA - 4.6 m2				0.5	0	0
449	Reactor Circulation Exchanger	1.60E+102	Std Process	Graphite Equipment	HE	1	PTFE imp. Graphite	SQM	25 (VTS)				2	0	0
450	Reactor Condenser	1.60E+103	Std Process	Graphite Equipment	HE	1	PTFE imp. Graphite	SQM	25 (VTS)				2	0	0
451	Distillation Rec. Primary Condenser	1.60E+105	Std Process	Graphite Equipment	HE	1	PTFE imp. Graphite	SQM	36 (VTS)				3	0	0
452	Distillation Rec. Sec. Condenser	1.60E+106	Std Process	Graphite Equipment	HE	1	PTFE imp. Graphite	SQM	13 (VTS)				1.5	0	0
453	Guard scrubber cooler	1.60E+203	Std Process	Graphite Equipment	HE	1	PTFE Imp.Graphite	SQM	20 (VTS)				2	0	0
454	K2CO3 Scrubber circulation Heat Exchanger (Graphite)	6.00E+201	Std Process	Graphite Equipment	HE	1	Graphite	SQM	25				2	0	0
455	Caustic Scrubber Column Recirculation cooler	1.40E+306	Std Process	PHE	PHE	1	Titanium	m2	165				0.5	0	0
456	Gaurd Scrubber Column Recirculation cooler	1.40E+307	Std Process	PHE	PHE	1	Titanium	m2	327				0.5	0	0
457	Caustic Preparation cooler	14E0401	Std Process	PHE	PHE	1	SS304	m2	96				0.5	0	0
458	10% Hypo solution cooler	14E0402	Std Process	PHE	PHE	1	Titanium	m2	48				0.5	0	0
459	Co-catalyst Removal Vessel	13V0304	Std Process	Glass Lined Equipment	Tank/Vessel	1	R0802	KL	0.63				1.6	0	0
460	Catalytic Slurry Preparation vessel	13V0305	Fabricated	Metallic Reactor	Reactor	1	SS316L	KL	1				0.8	3.3	3.3
461	Reactor Vent Condenser (Kettle Type)	1.70E+102	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell MOC: CS Tube MOC : Duplex steel	m2	Area = 64.2 m2				1	0	0
462	Moisture Column Reboiler (Falling Film reboiler)	1.70E+109	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell -CS Tube - SS316L	SQM	Area- VTS Heat Load:- 89362 Kcal/Hr				10	0	0
463	Purification Column Primary Condenser	1.70E+110	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell -SS316L Tube - SS316L	m2	HTA - 39.9 m2				1	0	0
464	Purification Column Secondary Condensor	1.70E+111	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Shell -SS316L Tube - SS316L	m2	HTA - 1.2				0.5	0	0
465	Purification Column Reboiler (Falling Film reboiler)	1.70E+112	Technology Package	FFE (Falling Film Evaporator)	FFE (Falling Film Evaporator)	1	Shell -CS Tube - SS316L	SQM	Area- VTS Heat Load:- 325182 Kcal/Hr				10	0	0
466	48% NaOH day tank (Dish end)	07V0403	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	5				1.76	0	0
467	Buffer Vessel for Instrument air - 1(Dish end)	07V0101	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	40				11.73	0	0
468	Buffer Vessel for Instrument air- 2 (Dish end)	07V0104	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	40				11.73	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
469	Buffer Vessel for Instrument air - 3(Dish end)	07V0105	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	40				11.73	0	0
470	Buffer Vessel for Breathing air (Dish end)	07V0301	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304L	m3	10				10.208	0	0
471	Buffer Vessel for Wet air (Dish end) @7Kg/cm2g	07V0102	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	10				2.5	0	0
472	Common Plant air buffer vessel@ 7kg/cm2g (Dish end)	07V0103	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	50				14.502	0	0
473	N2 receiver for UMPP plant (Dish end)	07V0201	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	25				7.957	0	0
474	Common N2 receiver (Dish end)	07V0202	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	m3	20				4.2	0	0
475	Hot and cold well storage (cubical with partition in middle)	07ST1001A/B	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	150				17.79	0	0
476	Toluene storage tank-1 (Underground Horizontal cylinder dished end)	6ST0303	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	230				56.736	0	0
477	Toluene storage tank-2 (Underground Horizontal Cylinder dished end)	6ST0304	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	230				56.736	0	0
478	Toluene storage tank-2 (Underground Horizontal Cylinder dished end)	6ST0311	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	230				56.736	0	0
479	AHF Storage tank (Horizontal bullet with torispherical head)	6ST0306A/B	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	2	CS	KL	40				30.924	0	0
480	30 % KF storage tank (Dished end) (External Limpett)	6ST0203	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS304	KL	25				5.413	0	0
481	Methanol storage tank (Underground Horizontal cylinder Dished end)	6ST0301	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				12.301	0	0
482	N-heptane storage tank (Underground Horizontal Cylinder Dished end)	6ST0302	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				12.257	0	0
483	Spare storage tank 1 (Underground Horizontal Cylinder Dished end)	6ST0309	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				12.301	0	0
484	Spare storage tank 2 (Underground Horizontal Cylinder Dished end)	6ST0310	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				12.301	0	0
485	O-Xylene storage tank (Underground Horizontal Cylinder Dished end)	6ST0305	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				12.281	0	0
486	Diesel (Underground Horizontal cylinder Dished end)	6ST0308	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				20.558	0	0
487	Liquid N2 storage tank (Cryogenic Horizontal bullet- Dish end)	6ST0312	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	40				13.4	0	0
488	Hot & cold well storage tank (Cubical with partition in middle)	07ST1101A/B	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				3.8	0	0
489	98% H2SO4 storage tank (Flate bottom / Conical roof)	6ST0101	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	30				7.53	0	0
490	48% NaOH solution storage tank (Flate bottom / Conical roof)	6ST0104	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	CS	KL	150				10.86	0	0
491	Priming Pot for RM-4	4V0265	Fabricated	Metallic Tanks, Vessels (OSBL)	Tank/Vessel	1	SS 316L	KL	0.1				0.5	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
492	Toluene Column	13C0202	Fabricated	Metallic Column	Metallic Column	1	Shell-CS Internals-SS316L	m (dia.) m (pkd. ht.)	1.2 16.32				9	0	0
493	Heavies Removal Column	13C0203	Fabricated	Metallic Column	Metallic Column	1	Shell-CS Internals-SS316L	m (dia.) m (pkd. ht.)	1.2 20				9.5	0	0
494	CRF-1 Column	13C0204A	Fabricated	Metallic Column (Site Fabricated)	Metallic Column	1	Shell-CS Internals-SS316L	m (dia.) m (packed ht.)	3 36				85	0	0
495	CRF-1 Column	13C0204B	Fabricated	Metallic Column (Site Fabricated)	Metallic Column	1	Shell-CS Internals-SS316L	m (dia.) m (packed ht.)	3 36				90	0	0
496	CRF-2 Column	13C0302	Fabricated	Metallic Column	Metallic Column	1	Shell-CS Internals-SS316L	m (dia.) m (packed ht.)	0.9 20				9	0	0
497	Reactor Reflux Column	17C0101	Fabricated	Metallic Column	Metallic Column	1	Column : SS316 L Packing MOC : SS316L	M	Dia : 0.4 m Packed Ht : 4 m Structured Packing Type : Mellapak 350Y (sulzer Equivalent)				0.75	0	0
498	PCP Distillation column	17C0107	Fabricated	Metallic Column	Metallic Column	1	SS-316L	M	Column Dia:- 900 mm Section 1:- Dia:- 900 mm Structured Packing Type:- Mellapak 352Y Section 1 Ht:- 6 M Section 2:- Dia:- 900 mm Structured Packing Type:- Mellapak 352Y Section 2 Ht:- 6 M				6	0	0
499	Steam Stripper column	8C0101	Fabricated	Metallic Column	Metallic Column	1	SS304 / SS 304 Packing	Ht X Dia	"Dia.-0.4m Pack. Ht.-8 m"				1	0	0
500	Ammonia Recovery Scrubber column-1	8C0102	Fabricated	Metallic Column	Metallic Column	1	SS304 / SS 304 Packing	Ht X Dia	"Dia.-0.3m Pack. Ht.-7 m"				0.75	0	0
501	Ammonia Recovery Scrubber column-2	8C0103	Fabricated	Metallic Column	Metallic Column	1	SS304 / SS 304 Packing	Ht X Dia	"Dia.-0.3m Pack. Ht.-7 m"				0.75	0	0
502	Guard Scrubber Column	17C0103	Fabricated	Non-Metallic	Column	1	PPFRP	M	Column Dia : 550 mm, Packing Ht : 3 m, Random Packing : 2" PVDF Pall Ring				1	0	0
503	Alkali Scrubber Column	17C0104	Fabricated	Non-Metallic	Column	1	PPFRP	M	Column Dia : 550 mm, Packing Ht : 3 m, Random Packing : 2" PVDF Pall Ring				1	0	0
504	Reactor (limpet & Internal Coil/Dished End)	17R0101	Fabricated	Metallic Reactor	Metallic Reactor	1	Reactor : SS 316L Internal Coil : SS316L Limpet : SS316L	KL	16				3.665	18.5	18.5
505	Alkali solution preparation Reactor (Dished End)	17R0103	Fabricated	Metallic Reactor	Metallic Reactor	1	SS304	KL	10				3.65	5.5	5.5
506	Train-1 Static mixer-1	14SM0101	Technology Package	Static mixer	Static mixer	1	PTFE Lined	NB	100				1	0	0
507	Train-2 Static mixer-1	14SM0701	Technology Package	Static mixer	Static mixer	1	PTFE Lined	NB	100				1	0	0
508	Train-1 DM water Vessel-1	14V0501	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	10				4	0	0
509	Train 1 CRF-02 SOL-01 preparation static mixer	14SM0401	Technology Package	Static mixer	Static mixer	1	PTFE	-	-				0.5	0	0
510	Train-2 DM water Vessel-2	14V0503	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	m3	10				4	0	0
511	Train 2 CRF-01 SOL-01 preparation static mixer	14SM0901	Technology Package	Static mixer	Static mixer	1	PTFE	-	-				0.5	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
512	Safety shower tank	14V0510	Fabricated	Non-Metallic	Tank/Vessel	1	PP FRP	KL	1				0.5	0	0
513	Un sat- HCL scrubber vessel	14V0303	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	Spiral HDPE	Spiral HDPE	3.5				1	0	0
514	Dilute HCL scrubber sump	14V0304	Fabricated	Non-Metallic	Tank/Vessel	1	PP FRP	PP FRP	5				1	0	0
515	Caustic scrubber sump with Venturi	14V0305	Fabricated	Non-Metallic	Tank/Vessel	1	PP FRP	PP FRP	8.5				3	0	0
516	Gaurd Scrubber sump with Venturi	14V0306	Fabricated	Non-Metallic	Tank/Vessel	1	PP FRP	PP FRP	15.5				1	0	0
517	Scrubber Blower	14BL0301A/B	Std Process	Centrifugal Blower	Centrifugal Blower	2	PPFRP	CFM	4000				4	1.1	2.2
518	30% HCL solution day tank	14V0410	Fabricated	Non-Metallic	Tank/Vessel	1	Spiral HDPE FRP	Spiral HDPE FRP	99				11	0	0
519	10% hypo solution day tank	14V0411	Fabricated	Non-Metallic	Tank/Vessel	1	PP FRP	PP FRP	66				10	0	0
520	DM Water tank	14V0414	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	HDPE	58				1.5	0	0
521	Scrubber Blower	18B0401A/B	Std Process	Centrifugal Blower	Centrifugal Blower	2	PPFRP	flow (m3/hr), head(m)	400				4	3.7	7.4
522	Guard Scrubber Column	18C0404	Fabricated	Non-Metallic	Column	1	PP FRP	Diameter (m), Packed height(m)	0.45				1	0	0
523	Candle Filter-1	18F0204	Std Package	Cartridge Filter	Cartridge Filter	1	PTFE Lined	m2	2				0.5	0	0
524	Candle Filter-2	18F0205	Std Package	Cartridge Filter	Cartridge Filter	1	PTFE Lined	m2	2				0.5	0	0
525	Candle Filter-3	18F0206	Std Package	Cartridge Filter	Cartridge Filter	1	PTFE Lined	m2	2				0.5	0	0
526	Hot water 1 cooler - PHE	18E0501	Std Process	PHE	PHE	1	SS 304	m2	VTS				1.5	0	0
527	Hot Water - 2 Cooler	18E0502	Std Process	PHE	PHE	1	SS 304	m2	VTS				0.5	0	0
528	Hot oil Cooler	18E0503	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	Tube: CS Shell: CS	m2	92.47				2.5	0	0
529	DM Water tank	18V0103	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	25.75				2	0	0
530	30% HCl solution vessel	18V0403	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	40				6	0	0
531	Guard Scrubber Vessel	18V0404	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	10				4	0	0
532	Neutralization Reactor (Dished Head & Conical Bottom)	17R0102	Fabricated	Non-Metallic Lot-2	Reactor	1	MS HDPE	KL	16				4	11	11
533	COD Treatment Reactor (Dished Head & Conical Bottom)	17R0104	Fabricated	Non-Metallic Lot-2	Reactor	1	MS HDPE	KL	5				1	2.2	2.2
534	Scrubber Section blower	17B0101A/B	Std Process	Centrifugal Blower	Centrifugal Blower	2	PPFRP	Nm3/hr	520 (-500 mmWCg)				4	5.5	11
535	Secondary Circuit Cooler	1.70E+115	Std Process	PHE	PHE	1	SS-316L	m2	Gasketed HTA = 30 m2				1.5	0	0
536	Secondary Circuit Heater	1.70E+114	Std Process	PHE	PHE	1	SS-316L	m2	Gasketed HTA = 30 m2				1.5	0	0
537	Aq Layer Storage Tank (Flat Bottom/Conical Head)	17V0106	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	5				1	0	0
538	30% HCl Solution Day Tank	17V0107	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	0.8				0.5	0	0
539	KF/KCL Solution Day Tank	17V0114	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	5				1.5	0	0
540	Alkali Storage Tank (Vertical Vessel/Flat Bottom Conical Head)	17ST0105	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	10				4	0	0
541	Guard Scrubber Tank (Vertical Vessel/Flat Bottom Conical Head)	17V0116	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	6				2	0	0
542	Alkali Scrubber Tank for Venting (Vertical Vessel/Flat Bottom Conical Head)	17V0117	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	6				2	0	0
543	Water Scrubber Tank	17V0128	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	35				5	0	0
544	Blower for scrubber-A	16B0201A	Std Process	Centrifugal Blower	Centrifugal Blower	1	PPFRP	Nm3/hr	300 -500				1	11	11




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545	Blower for scrubber-B	16B0201B	Std Process	Centrifugal Blower	Centrifugal Blower	1	PPFRP	Nm3/hr	300-500				1	11	11
546	Guard scrubber column	16C0202	Fabricated	Non-Metallic	Column	1	Column : PPFRP Packing : PVDF	M	0.35 Dia X 3 Pkd. Ht m				0.5	0	0
547	30% HCl storage tank	16V0204	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	30				5	0	0
548	FFA Tank	16V0206	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	30				5	0	0
549	Guard Scrubber Tank	16V0207	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	10				4	0	0
550	Safety Shower Tank	16V0111	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	KL	5				1	0	0
551	K2CO3 Scrubber column for HF (Packing -2" Pall ring, MOC-PVDF)	6C0201	Std Process	Non-Metallic (PIN-087)	Column	1	PPFRP	M	Packed height - 4 Mtr Dia - 0.6 Mtr				1	0	0
552	K2CO3 scrubber blower (-1000mmWCg)	6B0201	Std Process	Centrifugal Blower (PIN-087)	Centrifugal Blower	1	PVDF	CFM	100				1	15	15
553	DM water Storage tank (Flate bottom / Conical roof)	07ST0401	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	m3	200				20	0	0
554	30% HCL day tank (Flate bottom / Conical roof)	07V0402	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	m3	5				1.5	0	0
555	K2CO3 Scrubber bottom Vessel with Sparger (Flat bottom/Conical roof)	6ST0201	Std Process	Non-Metallic (PIN-087)	Tank/Vessel	1	PPFRP	KL	10				4	0	0
556	30 % HCL Storage Tank (Flate bottom / Conical roof)	6ST0102A/B/C	Fabricated	Non-Metallic	Tank/Vessel	3	HDPE + FRP	KL	250				8	0	0
557	HCl scrubbing tank 1 (water) (Flate bottom / Conical roof)	6ST0105	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	10				4	0	0
558	HCl scrubbing tank 2 (water) (Flate bottom / Conical roof)	6ST0107	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	5				1.5	0	0
559	10% hypo solution St. tank	14ST0610	Fabricated	Non-Metallic	Tank/Vessel	1	PP FRP	m3	450				40	0	0
560	10% Hypo solution cooler	14E0601	Std Process	PHE	PHE	1	Titanium	m2	96.42				2	0	0
561	Scrubber ML storage tank	4ST0241	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP	KL	30				3	0	0
562	HBr / 30%HCL Storage tank	4ST0242	Fabricated	Non-Metallic	Tank/Vessel	1	PPFRP	KL	50				6	0	0
563	Sellable spent Storage tank	4ST0243	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF-FRP	KL	30				3	0	0
564	Scrubber Blower	8B01062A/B	Std Process	Centrifugal Blower	Centrifugal Blower	2	PP FRP	Nm3/hr	100-500				4	1.5	3
565	Acid Dosing Tank/HCl dosing tank (Common for 3 Streams)	8DT01003	Fabricated	Non-Metallic	Tank/Vessel	1	Polypropylene	Liters	3000				3	0	0
566	Hypochlorite Dosing Tank	8DT01066	Std Package	Dosing tank with Agitator & Pump	Tank/Vessel	1	Polypropylene	Liters	100				0.5	0	0
567	Ammonia Guard Scrubber column	8C0104	Fabricated	Non-Metallic	Column	1	PVDF FRP / PVDF packing	Ht X Dia	"Dia.-0.3m Pack. Ht.-7 m"				1	0	0
568	Stripper condensor	8.00E+101	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	SS304	SQM	7				0.7	0	0
569	3 Day Storage Tank (Common for both ETP's)	8ST02006	Fabricated	GFS Bolted	Tank/Vessel	1	Glass Fused Steel	m3	634				0	0	0
570	RO Permeate Tank	8T02008	Fabricated	GFS Bolted	Tank/Vessel	1	Glass Fused Steel	kl	330				0	0	0
571	Guard Scrubber Circulation tank	8ST0104	Fabricated	Non-Metallic	Tank/Vessel	1	PVDF FRP	KL	2				2	0	0
572	Nutrient Dosing Tank	8DT01060A/B	Std Package	Dosing tank with Agitator & Pump	Tank/Vessel	2	High Density Polyethylene	Liters	200				2	0	0
573	Train-1 Loop reactor UV lamp	14PK0101	Technology Package	UV Lamps (Package)	UV Lamps (Package)	1	Glass	nos.	5kW * 6 lamps per cabinet				1.4	90	90
574	Train-1 Batch Reactor-A/B UV Lamp	14PK0102A/B	Technology Package	UV Lamps (Package)	UV Lamps (Package)	2	Glass	nos.	5kW * 6 lamps per cabinet				2.8	45	90
575	Train-2 Loop reactor UV lamp	14PK0701	Technology Package	UV Lamps (Package)	UV Lamps (Package)	1	Glass	nos.	5 kW * 6 Lamp per cabinet				1.4	90	90

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
576	Train-2 Batch Reactor-A/B/C UV Lamp	14PK0702A/B/C	Technology Package	UV Lamps (Package)	UV Lamps (Package)	3	Glass	nos.	5 kW * 6 Lamp per cabinet				4.2	37	111
577	PPPPU system	14PK0501	Std Process	PPPPU pump	PPPPU pump	1	-	-	-				1	0	0
578	Train-1 loop Reactor Recirculation Pump	14P0101A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	220				4	75	150
579	Train-1 HCL Stripper -1 Feed Pump	14P0102A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	2.5				2	1.1	2.2
580	Train-1 Batch reactor A pump	14P0105	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	15				0.5	5.5	5.5
581	Train-1 Batch reactor B pump	14P0106	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	15				0.5	5.5	5.5
582	Train-1 LB Column Liquid Ring Vacuum pump	14VP0201	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	334				0.8	15	15
583	Train-1 CRT-07 column Liquid Ring Vacuum pump	14VP0202	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	212				0.7	18.5	18.5
584	Train-1 CRT-08 Column Liquid Ring Vacuum Pump	14VP0203	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	570				1.1	22	22
585	Train-1 CRT-09 column Liquid Ring vacuum pump	14VP0204A/S	Std Process	Vacuum pump	Vacuum pump	2	SS 316L	Am3/hr	820				3	30	60
586	Train-1 HCL Stripper-1 Column Reboiler pump	14P0201A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	5				2	2.2	4.4
587	Train-1 LB column Reboiler Pump	14P0202	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	40				0.7	11	11
588	Train-1 CRT-07 Column Reboiler pump	14P0203	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	73				0.7	30	30
589	Train-1 HCL stripper-2 Column Reboiler pump	14P0204A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	7				2	3.7	7.4
590	Train-1 CRT-08 Column Reboiler pump	14P0205	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	60				0.7	3.7	3.7
591	Train-1 CRT-09 column reboiler pump	14P0206	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	22				0.5	7.5	7.5
592	Train-1 LB Column Distillate Transferring Pump	14P0207	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	3				0.5	1.1	1.1
593	Train-1 CRT-07 Column Distillate Transferring Pump	14P0208	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	7				0.5	1.1	1.1
594	Train-1 CRT-08 Column Distillate Transferring Pump	14P0209	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	6				0.5	2.2	2.2
595	Train-1 CRT-09 column distillate Transferring pump	14P0210	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.5	1.5
596	Train-1 CRT-09 column residue transferring pump	14P0211	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	0.5				0.5	1.1	1.1
597	Train 1 LB side draw collection pump	14P0213	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	1.5				0.5	1.1	1.1
598	Train-1 DM water Vessel-1 Supply Pump	14P0501A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS 304	m3/hr	40				2	3.7	7.4
599	Train-1 CRF-02 Loop reactor feed pump	14P0401A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	2				2	1.1	2.2
600	Train-1 CRT-07 Transferring Pump	14P0402	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
601	Train-1 CRT-08 Transferring Pump	14P0403	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	2.5				0.5	1.1	1.1
602	Train-1 CRT-09 Transferring Pump	14P0404	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	7.5				0.5	2.2	2.2
603	Train-1 LB Incineration transferring Pump	14P0405	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	2				0.5	1.1	1.1
604	Train-1 Batch Reactor Feed pump	14P0406	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	25				0.5	7.5	7.5
605	Train-1 Stripper column-2 feed pump	14P0407A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	2.5				2	1.5	3

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
606	Train-1 Reaction mass drain vessel pump	14P0408A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	10				2	2.2	4.4
607	Train-1 CRF-02 SOL-01 preparation tank pump	14P0409	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	3.7	3.7
608	Train-2 loop Reactor Re circulation Pump	14P0701A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	230				4	75	150
609	Train-2 HCL Stripper -1 Feed Pump	14P0702A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	3				2	1.5	3
610	Train-2 Batch reactor A pump	14P0705	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	14				0.5	5.5	5.5
611	Train-2 Batch reactor B pump	14P0706	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	14				0.5	5.5	5.5
612	Train-2 Batch reactor C pump	14P0707	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	14				0.5	5.5	5.5
613	Train-2 LB Column Liquid Ring Vacuum pump	14VP0801	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	276				0.7	11	11
614	Train-2 CRTF-10 column Liquid Ring Vacuum pump	14VP0802	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	457				1.1	18.5	18.5
615	Train-2 CRT-11 Column Liquid Ring Vacuum Pump	14VP0803	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	1174				1.7	45	45
616	Train-2 CRT-12 column Liquid Ring vacuum pump	14VP0804A/S	Std Process	Vacuum pump	Vacuum pump	2	SS 316L	Am3/hr	1100				3.4	45	90
617	Train-2 HCL Stripper-1 Column Reboiler pump	14P0801A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	7				2	3.7	7.4
618	Train-2 LB column Reboiler Pump	14P0802	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	10				0.5	1.1	1.1
619	Train-2 CRTF-10 Column Reboiler pump	14P0803A/S	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	61				3	22	44
620	Train-2 HCL stripper-2 Column Reboiler pump	14P0804A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	2				2	3.7	7.4
621	Train-2 CRT-11 Column Reboiler pump	14P0805A/S	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	26				2	1.5	3
622	Train-2 CRT-12 column reboiler pump	14P0806	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	20				0.5	7.5	7.5
623	Train-2 LB Column Distillate Transferring Pump	14P0807	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
624	Train-2 CRTF-10 Column Distillate Transferring Pump	14P0808	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	4				0.5	1.1	1.1
625	Train-2 CRT-11 Column Distillate Transferring Pump	14P0809	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
626	Train-2 CRT-12 column distillate Transferring pump	14P0810	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
627	Train-2 CRT-12 column residue transferring pump	14P0811	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
628	Train-2 CRT-12 low boiler draw transferring pump	14P0812	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
629	Train-2 DM water Vessel-2 Supply Pump	14P0503A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS 304	m3/hr	40				3	7.5	15
630	Train-2 CRF-01 Loop reactor feed pump	14P0901A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	2.5				2	1.5	3
631	Train-2 CRTF-10 Transferring Pump	14P0902A/S	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	5				2	3.7	7.4
632	Train-2 CRT-11 Transferring Pump	14P0903	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	5				0.5	1.5	1.5
633	Train-2 CRT-12 Transferring Pump	14P0904	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	5				0.5	3.7	3.7
634	Train-2 LB Incineration transferring Pump	14P0905	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	2				0.5	1.1	1.1
635	Train-2 Batch Reactor Feed pump	14P0906	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	25				0.5	11	11




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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
636	Train-2 Stripper column-2 feed pump	14P0907A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA lined	m3/hr	2				2	1.1	2.2
637	Train-2 CRF-01 SOL-01 preparation tank pump	14P0908A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	10				2	2.2	4.4
638	Train-2 Reaction mass drain vessel pump	14P0909	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	2.2	2.2
639	Hot water circulation pump	14P0505	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr	450				1.5	90	90
640	Floor drain Pit pump	14P0506	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
641	Process Drain Pit Pump	14P0507	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	2				0.5	1.1	1.1
642	Process Vent tank transferring pump	14P0508	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	1				0.5	1.1	1.1
643	Organic Scrubber Recirculation pump	14P0301A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	13				2	5.5	11
644	Sat.HCL scrubber Recirculation pump	14P0302A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	9.8				2	3.7	7.4
645	Unsat. HCL Scrubber Recirculation pump	14P0303A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	11.2				2	3.7	7.4
646	Dil HCL scrubber Recirculation pump	14P0304A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	16.2				2	3.7	7.4
647	Caustic Scrubber Recirculation pump	14P0305A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	73				4	37	74
648	Gaurd Scrubber Recirculation pump	14P0306A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	145				2	3.7	7.4
649	Sat. HCL aqueous recirculation pump	14P0307A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	6				2	1.5	3
650	Waste Organic Transferring Pump	14P0308A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	0.5				2	1.1	2.2
651	CRT-09 recovery column reboiler pump	14P0309A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	2.5				2	1.1	2.2
652	CRT-09 recovery column distillate transfer pump	14P0310A/B	Std Process	Lined Pumps	Lined Pumps	2	PFA Lined	m3/hr	0.5				2	1.1	2.2
653	CRT-09 recovery column vacuum pump	14VP0301	Std Process	Vacuum pump	Vacuum pump	1	SS 316L	Am3/hr	100				0.7	15	15
654	30% HCL Transferring Pump	14P0410	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	20				0.5	7.5	7.5
655	10% Hypo transferring Pump	14P0411	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	20				0.5	7.5	7.5
656	15% caustic transferring Pump	14P0412A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CS	m3/hr	20				2	3.7	7.4
657	15% caustic preparation transferring Pump	14P0413	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr	20				0.5	15	15
658	DM Water tank Pump	14P0414A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS 304L	m3/hr	20				2	1.1	2.2
659	Toluene Day vessel transferring pump	13P0101A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	12 42				0.5	1.1	1.1
660	Toluene Day vessel transferring pump	13P0101B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	12 42				0.5	1.1	1.1
661	Toluene Dryer vessel pump	13P0103	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	2 24				0.5	1.1	1.1
662	Toluene after dryer vessel transferring pumps	13P0102A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	12 39				0.5	1.1	1.1
663	Toluene after dryer vessel transferring pumps	13P0102B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	12 39				0.5	1.1	1.1
664	Toluene chlorinator exotherm removal pump	13P0104A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	800 34				1.5	3	3
665	Toluene chlorinator exotherm removal pump	13P0104B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	800 34				1.5	168	168
666	Toluene chlorinator exotherm removal pump	13P0104C	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	800 34				1.5	168	168
667	Dump tank transferring pump	13P0105	Std Process	Extended shaft pump	Extended shaft pump	1	CS	m3/hr Head mlc	30 24				0.5	5.5	5.5
668	Toluene Chlorinator filter circulation pump	13P0106A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	2 17				0.5	1.1	1.1
669	Toluene Chlorinator filter circulation pump	13P0106S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	2 17				0.5	1.1	1.1

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
670	HCl Stripper feed vessel transferring pump	13P0107A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	13 29				0.5	5.5	5.5
671	HCl Stripper feed vessel transferring pump	13P0107B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	13 29				0.5	5.5	5.5
672	Aqueous Drain Tank transferring pump	13P0201	Std Process	Extended shaft pump	Lined Pumps	1	CS-PFA	m3/hr Head mlc	3 36				0.5	1.5	1.5
673	HCl Stripper Bottom Circulation pumps	13P0202A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	92 15				0.7	18.5	18.5
674	HCl Stripper Bottom Circulation pumps	13P0202B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	92 15				0.7	18.5	18.5
675	Toluene Column Reflux Pump	13P0204A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	14 20				0.5	2.2	2.2
676	Toluene Column Reflux Pump	13P0204B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	14 20				0.5	2.2	2.2
677	Toluene Column Bottom Circulation pumps	13P0205A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	165 22				0.7	18.5	18.5
678	Toluene Column Bottom Circulation pumps	13P0205S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	165 22				0.7	18.5	18.5
679	Heavies Removal Column Reflux Pump	13P0206A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	12 31				0.5	3.7	3.7
680	Heavies Removal Column Reflux Pump	13P0206B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	12 31				0.5	3.7	3.7
681	Heavies Removal Column Bottom Circulation pumps	13P0207A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	96 25				0.7	15	15
682	Heavies Removal Column Bottom Circulation pumps	13P0207S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	96 25				0.7	15	15
683	Heavies Removal Column Top Storage Vessel transferring pump	13P0208A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	8 71				0.5	7.5	7.5
684	Heavies Removal Column Top Storage Vessel transferring pump	13P0208B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	8 71				0.5	7.5	7.5
685	Heavies Removal Column Vacuum pump	13VP0201	Std Process	Vacuum pump	Vacuum pump	1	SS316L	m3/hr mmhg a	223 100				0.7	15	15
686	Heavies Removal column bottom storage vessel transferring pump	13P0209A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	4 30				0.5	15	15
687	Heavies Removal column bottom storage vessel transferring pump	13P0209S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	4 30				0.5	15	15
688	CRF-1 Column Split Pump	13P0210A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	125 51				0.7	30	30
689	CRF-1 Column Split Pump	13P0210B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	125 51				0.7	30	30
690	CRF-1 Column Reflux Pumps	13P0211A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	130 50				0.7	37	37
691	CRF-1 Column Reflux Pumps	13P0211B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	130 50				0.7	37	37
692	CRF-1 Column Bottom circulation pumps	13P0212A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	760 22				1.5	90	90
693	CRF-1 Column Bottom circulation pumps	13P0212B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	760 22				1.5	90	90
694	CRF-1 Column Bottom circulation pumps	13P0212S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	760 22				1.5	90	90
695	CRF-1 Column Bottom Storage vessel/Chlorinator-2 Feedtransferring pump	13P0213A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	18 21				0.5	3.7	3.7
696	CRF-1 Column Bottom Storage vessel/Chlorinator-2 Feedtransferring pump	13P0213B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	18 21				0.5	3.7	3.7
697	CRF-1 Intermediate Storage Tank transferring pumps	13P0214A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	40 35				0.5	9.32	9.32



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
698	CRF-1 Intermediate Storage Tank transferring pumps	13P0214S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	40 35				0.5	9.32	9.32
699	Circulation pump	13P0302A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	300 14				1.5	30	30
700	Circulation pump	13P0302S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr Head mlc	300 14				1.5	30	30
701	Product transfer pump	13P0303	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr mlc	20 9				0.5	1.5	1.5
702	MSGGL vessel transferring pump	13P0304	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr mlc	3 30				0.5	1.5	1.5
703	Co-catalyst transferring pump	13P0301	Std Process	Metering / Dosing Pump	Metering / Dosing Pump	1	CS-PTFE	m3/hr mlc	0.1 15				0.5	1.1	1.1
704	CRF-2 Column Reflux Pumps	13P0308A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	4 38				0.5	2.2	2.2
705	CRF-2 Column Reflux Pumps	13P0308B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	4 38				0.5	2.2	2.2
706	CRF-2 column Bottom Circulation pumps	13P0307A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	56 17				0.5	5.5	5.5
707	CRF-2 column Bottom Circulation pumps	13P0307S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	56 17				0.5	5.5	5.5
708	Pure CRF-2 transfer pump	13P0309	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr Head mlc	24 20				0.5	3.7	3.7
709	CRF-2 Column vacuum pump	13VP0301	Std Process	Vacuum pump	Vacuum pump	1	SS316L	m3/hr mmhg a	123 100				0.7	15	15
710	CRF-1 circulation pump	13P0401A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	2 16				0.5	1.1	1.1
711	CRF-1 circulation pump	13P0401B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	2 16				0.5	1.1	1.1
712	Organic Layer Transfer pump	13P0402	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	2 25				0.5	1.1	1.1
713	30% HCl saturated circulation pump	13P0404A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	5 20				0.5	2.2	2.2
714	30% HCl saturated circulation pump	13P0404B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	5 20				0.5	2.2	2.2
715	30% HCl transfer pump	13P0403A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	7 16				0.5	1.1	1.1
716	30% HCl transfer pump	13P0403B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	7 16				0.5	1.1	1.1
717	30% organic free HCL storage tank transfer pump	13P0405	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	30 24				0.5	15	15
718	Guard Scrubber Outlet storage tank transferring pump	13P0408A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	20 24				0.5	9.32	9.32
719	Guard Scrubber Outlet storage tank transferring pump	13P0408S	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	20 24				0.5	9.32	9.32
720	Recirculation pump for Guard Scrubber-1	13P0410A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	6 15				0.5	2.2	2.2
721	Recirculation pump for Guard Scrubber-1	13P0410B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	6 15				0.5	2.2	2.2
722	Recirculation pump for Guard Scrubber-2	13P0412A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	6 15				0.5	2.2	2.2
723	Recirculation pump for Guard Scrubber-2	13P0412B	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr Head mlc	6 15				0.5	2.2	2.2
724	Flash- Condensate transferring pump	13P0503A	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr Head mlc	20 25				0.5	3.7	3.7
725	Flash- Condensate transferring pump	13P0503B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr Head mlc	20 25				0.5	3.7	3.7
726	Condensate transferring pump	13P0504	Std Process	PPPPU pump	PPPPU pump	1	CS	Kg/hr	14907				1	0	0
727	Hot water system Tank pump	13P0505A	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr Head mlc	8 47				0.5	5.5	5.5
728	Hot water system Tank pump	13P0505S	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr Head mlc	8 47				0.5	5.5	5.5

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
729	Process DRAIN PIT AODD PUMP	13P0507	Std Process	AODD / Diaphragm pump	AODD / EODD Diaphragm pump	1	PTFE	m3/hr Head mlc	2 25				0.5	0	0
730	Drain Pump	13P0510	Std Process	AODD / Diaphragm pump	AODD / EODD Diaphragm pump	1	PTFE	m3/hr Head mlc	2 50				0.5	0	0
731	CRF-2 drum filling pump	13P0310	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	5 15				0.5	1.1	1.1
732	CRF-1 Drum filling pump	13P0216	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	5 14				0.5	1.1	1.1
733	Pure CRF-2 Column Feed pump	13P0801A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	4 29				0.5	7.5	7.5
734	Pure CRF-2 Column Feed pump	13P0801B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	4 29				0.5	7.5	7.5
735	Aq 1 Transfer pump	13P0802	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr m	6 40				0.5	7.5	7.5
736	Thio Solution preparation vessel pump	13P0803	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr m	6 13				0.5	15	15
737	Aqueous 2 transfer pump	13P0804	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr m	6 45				0.5	5.5	5.5
738	Aq 3 Transfer pump	13P0805	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr m	6 43				0.5	5.5	5.5
739	Aq.Na2S2O3 pump	13P0806	Std Process	Metering / Dosing Pump	Metering / Dosing Pump	1	CS-PTFE	m3/hr m	2 23				0.5	1.1	1.1
740	Washing 1 Transfer pump	13P0807A	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr m	5 21				0.5	2.2	2.2
741	Washing 1 Transfer pump	13P0807S	Std Process	Lined Pumps	Lined Pumps	1	CS-PTFE	m3/hr m	5 21				0.5	2.2	2.2
742	AODD pump for STB	13P0311	Std Process	AODD / Diaphragm pump	AODD / EODD Diaphragm pump	1	PTFE	m3/hr m	0.5 15				0.5	0	0
743	Barrel Pump for STB	13P0312	Std Process	Barrel Pump	Barrel Pump	1	SS316L	lit/hr	30				0.5	1.1	1.1
744	PTS	13PK0301	Technology Package	PTS	PTS	1	VTS	kg/hr	100				0.5	0	0
745	Steam PRS - ( 24 kg/cm2g to 12kg/cm2 g)	13PK0503	Std Package	Steam PRS	Steam PRS	1	CS	kg/hr	1800				0.5	0	0
746	Steam PRS - ( 24 kg/cm2g to 4.5kg/cm2 g)	13PK0509	Std Package	Steam PRS	Steam PRS	1	CS	kg/hr	3000				0.5	0	0
747	Nitrogen PRS - ( 7 kg/cm2g to 1.5 kg/cm2g)	13PK0505	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	800				0.5	0	0
748	Nitrogen PRS - ( 7 kg/cm2g to 3.5 kg/cm2g)	13PK0507	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	800				0.5	0	0
749	Nitrogen PRS - ( 7 kg/cm2g to 0.05 kg/cm2g)	13PK0506	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	400				0.5	0	0
750	Drum Filling Station	13PK0508	Technology Package	Drum Filling Station (PIN-084 & 085)	Drum Filling Station	1	SS316L	per day	33+40 drums(200kg)				0.5	0	0
751	DM Water Pump	18P0103A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS 304L	flow (m3/hr), head(m)	15				2	3.7	7.4
752	CRT-32 Charging Pump	18P0105A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	1				2	1.1	2.2
753	CRT -22 Charging Pump	18P0106	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	1				0.5	1.1	1.1
754	Recycle Reactor - 1 pump	18P0201A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	15				2	15	30
755	Reactor 1 reflux vessel pump	18P0202A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	1				2	1.1	2.2
756	Recycle Reactor 2 pump	18P0203	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	15				0.5	15	15
757	Reactor 2 reflux vessel pump	18P0204	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	1				0.5	1.1	1.1
758	Stripper feed vessel 1 pump	18P0205A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	1.3				2	1.1	2.2



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759	Recycle Reactor 3 pump	18P0206	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	15				0.5	15	15
760	Reactor 3 reflux vessel pump	18P0207	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	1				0.5	1.1	1.1
761	Stripper feed vessel 2 pump	18P0208A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	1				2	1.1	2.2
762	HCl Stripper 1 Reboiler pump	18P0301A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	6.5				2	3.7	7.4
763	CRT-34 Distillation column Reboiler pumps	18P0302A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	25				2	15	30
764	HCl Stripper 2 Reboiler pump	18P0303A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	3				2	1.1	2.2
765	CRT-35 Distillation column Reboiler pumps	18P0304A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	5.8				2	3.7	7.4
766	Flashing Vessel 1 pump	18P0305A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	14				2	7.5	15
767	Flashing Vessel 2 pump	18P0306A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	5				2	3.7	7.4
768	Residue Transfer pump	18P0307A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	3.3				2	1.1	2.2
769	CRT-34 Transfer pump	18P0308A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS304L	flow (m3/hr), head(m)	9				2	5.5	11
770	CRT-35 Transfer pump	18P0309A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS304L	flow (m3/hr), head(m)	3				0.5	1.1	1.1
771	Sat HCl Scrubber 1 Circulation Pump 1	18P0401A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	4				2	7.5	15
772	Sat HCl Scrubber 2 Circulation pump 1	18P0402A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	2				2	3.7	7.4
773	Organic Scrubber 1 Circulation Pump	18P0407A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	7				2	3.7	7.4
774	Organic Scrubber 2 circulation pump	18P0408A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	7				2	3.7	7.4
775	Organic layer vessel 1 pump	18P0405	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	1				0.5	1.1	1.1
776	Organic layer vessel 2 Pump	18P0406	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	1				0.5	1.1	1.1
777	Alberzer pump	18P0403A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	17				2	9.32	18.64
778	Guard Scrubber pump	18P0404A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	30				2	15	30
779	Hot water 1 Pump	18P0501A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	CS	flow (m3/hr), head(m)	255				2	168	336
780	Hot water 2 Pump	18P0502A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	CS	flow (m3/hr), head(m)	150				1.4	90	180
781	Underground vessel pump	18P0503	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	5				0.5	2.2	2.2




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782	Floor wash vessel pump	18P0504	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	5				0.5	3.7	3.7
783	Liquid Jet Ejector - 1 Pump	18P0310	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	60				0.5	30	30
784	Liquid Jet Ejector - 2 Pump	18P0311A/S	Std Process	Lined Pumps	Lined Pumps	2	CS-PFA	flow (m3/hr), head(m)	70				1.4	30	60
785	NH4Cl Jumbo Bag Unloading Package - 1	18PK0207	Technology Package	Jumbo Bag Unloading Package	NH4Cl Jumbo Bag Unloading Package	1	SS 316L	Kg/hr	2000				0.5	0	0
786	NH4Cl Jumbo Bag Unloading Package - 2	18PK0208	Technology Package	Jumbo Bag Unloading Package	NH4Cl Jumbo Bag Unloading Package	1	SS 316L	Kg/hr	2000				0.5	0	0
787	NH4Cl Jumbo Bag Unloading Package - 3	18PK0209	Technology Package	Jumbo Bag Unloading Package	NH4Cl Jumbo Bag Unloading Package	1	SS 316L	Kg/hr	2000				0.5	0	0
788	Flaker	18PK0307	Technology Package	Flaker	Flaker	1	SS304L	Kg/hr	200				3	2.2	2.2
789	Product Packaging unit/Bag Filling	18PK0308	Technology Package	Product Packaging unit/Bag Filling	Product Packaging unit/Bag Filling	1	SS316L	kg/hr	200				0.5	0	0
790	LPS PRS PACKAGE	18PK0503	Std Package	Steam PRS	Steam PRS	1	CS	kg/hr	600				0.5	0	0
791	MPS-1 PRS PACKAGE	18PK0502	Std Package	Steam PRS	Steam PRS	1	CS	kg/hr	2500				0.5	0	0
792	MPS-2 PRS PACKAGE	18PK0501	Std Package	Steam PRS	Steam PRS	1	CS	kg/hr	1500				0.5	0	0
793	Condensate Recovery System Package	18PK0507	Std Process	PPPPU pump	PPPPU pump	1	CS	kg/hr, head(m)	4000				1	0	0
794	NITROGEN PRS PACKAGE	18PK0506	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	500				0.5	0	0
795	Organic Scrubber 1 Transfer Pump	18P0409	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	10				0.5	3.7	3.7
796	Organic Scrubber 2 Transfer pump	18P0410	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	10				0.5	3.7	3.7
797	30 % HCl Transfer pump	18P0411	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	flow (m3/hr), head(m)	17				0.5	9.32	9.32
798	Train-1 PCBC Transferring Pump	14P0601	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PFA lined	m3/hr	20 m3/hr 45m Head				0.5	1.1	1.1
799	Train-1 PCBDC Transferring Pump	14P0602	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20 m3/hr 45m Head				0.5	1.1	1.1
800	Train-1 PCBTC Transferring Pump	14P0603	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20 m3/hr 45m Head				0.5	1.1	1.1
801	Train-1 Residue Transferring Pump	14P0604A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	10 m3/hr 45m Head				2	3	6
802	Train-2 OCBC Transferring Pump	14P0605A/S	Std Process	Lined Pumps (PIN-087)	Lined Pumps	2	PFA lined	m3/hr	20 m3/hr 45m Head				2	3	6
803	Train-2 CRT-11 Transferring Pump	14P0606A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	20 m3/hr 45m Head				2	3	6
804	Train-2 CRT-12 Transferring Pump	14P0607	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20				0.5	1.1	1.1
805	Train-2 Residue Transferring Pump	14P0608	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10 m3/hr 45m Head				0.5	1.1	1.1
806	10% Hypo transferring Pump	14P0610	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PFA Lined	m3/hr	40 m3/hr 25m Head				0.5	1.1	1.1
807	Central Tankfarm Dyke pit pump	14P0611	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PFA Lined	m3/hr	2 m3/hr 25m Head				0.5	1.1	1.1
808	PCT tanker filling pump	13P0603	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	20 15				0.5	1.1	1.1
809	OCT tanker filling pump	13P0601	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	20 15				0.5	1.1	1.1
810	PCT to photochlorination Pump	13P0607	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	50 34				0.5	1.1	1.1
811	OCT to photochlorination Pump	13P0606	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr m	50 34				0.5	1.1	1.1

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
812	Residue unloading Pump	13P0604	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr m	35 16				0.5	1.1	1.1
813	Product Storage Tank Pump	16P0601	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20				2	3	6
814	Product Storage Tank Pump	16P0602	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20				2	3	6
815	Pit Pump	16P0603	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	SS316L	m3/hr	2				0.5	1.1	1.1
816	CRT-35 tanker unloading pump	18P0601	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS304L	m3/hr m	25 30				0.5	1.1	1.1
817	CRT-34 Tanker unloading pump	18P0603	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS304L	m3/hr m	25 30				0.5	1.1	1.1
818	CRT- 36 tanker unloading pump	18P0602	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS304L	m3/hr m	25 30				0.5	1.1	1.1
819	Scrubber ML transfer Pump	4P0241	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	15				0.5	1.1	1.1
820	Tanker Loading/transferring to pad	4P0242	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	10				0.5	1.1	1.1
821	Sellable spent transfer Pump	4P0243	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	15				0.5	1.1	1.1
822	Tanker Unloading pump for HCL	6P0112	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	15				0.5	1.1	1.1
823	Solvent 1 transfer Pump	4P0251	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	1.1	1.1
824	Solvent 2 transfer Pump	4P0252	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	1.1	1.1
825	Solvent 3 transfer Pump	4P0253	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS 304L	m3/hr	10				0.5	1.1	1.1
826	Solvent 4 transfer Pump	4P0254	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS 304L	m3/hr	10				0.5	1.1	1.1
827	RM-1 transfer Pump	4P0255	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS 304L	m3/hr	10				0.5	1.1	1.1
828	RM-3 transfer Pump	4P0256	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	10				0.5	1.1	1.1
829	RM-4 transfer Pump	4P0257	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS 304L	m3/hr	10				0.5	1.1	1.1
830	RM-2 transfer Pump	4P0258	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	1.1	1.1
831	Tanker loading pump	4P0259	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS 304L	m3/hr	15				0.5	1.1	1.1
832	Tanker loading Pump	4P0261	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
833	Tanker loading Pump	4P0262	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
834	Tanker Unloading Pump for RM-1 mettalic tank	4P0271	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
835	Tanker Unloading Pump RM-2 mettalic tank	4P0277	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
836	Tanker Unloading pump for Solvent-1	4P0272	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
837	Tanker Unloading Pump Solvent-2 mettalic tank	4P0278	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
838	Tanker Unloading pump for Solvent-3	4P0273	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
839	Tanker Unloading Pump for RM-3	4P0274	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	15				0.5	1.1	1.1
840	RM-5 Transfer Pump	4P0236	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	1.1	1.1
841	Solvent-5 Transfer Pump	4P0245	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS 304L	m3/hr	10				0.5	1.1	1.1
842	Incineration Transfer Pump	4P0247	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr	10				0.5	1.1	1.1
843	Tanker Unloading Pump for RM-5	4P0266	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
844	Tanker Unloading Pump for RM-4	4P0282	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
845	Tanker Unloading pump for Solvent-5	4P0264	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
846	Tanker Unloading pump for Solvent-4	4P0265	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	15				0.5	1.1	1.1
847	Tank farm dyke pit pump	4P0295	Std Process	AODD / Diaphragm pump	AODD / Diaphragm pump	1	PVDF lined	m3/hr	5				0.5	0	0
848	Tank farm dyke pit pump	4P0296	Std Process	AODD / Diaphragm pump	AODD / Diaphragm pump	1	PVDF lined	m3/hr	5				0.5	0	0
849	Tank farm dyke pit pump	4P0297	Std Process	AODD / Diaphragm pump	AODD / Diaphragm pump	1	SS316L	m3/hr	5				0.5	0	0
850	Tank farm dyke pit pump	4P0298	Std Process	AODD / Diaphragm pump	AODD / Diaphragm pump	1	SS316L	m3/hr	5				0.5	0	0
851	Tank farm dyke pit pump	6P0291	Std Process	AODD / Diaphragm pump	AODD / Diaphragm pump	1	PVDF lined	m3/hr	5				0.5	0	0
852	Tank farm dyke pit pump	6P0293	Std Process	AODD / Diaphragm pump	AODD / Diaphragm pump	1	SS316L	m3/hr	5				0.5	0	0
853	Tankfarm Effluent pit pump	6P0131	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined	m3/hr	10				0.5	1.1	1.1
854	CRF-19 Storage Tank A Transfer Pump	17P0601A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	20				2	3	6
855	CRF-19 Storage Tank B Transfer Pump	17P0602	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20				0.5	1.1	1.1
856	KF/KCI Transfer Pump	17P0604A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	20				2	3	6
857	Residue Storage Tank Transfer Pump	17P0606	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	20				0.5	1.1	1.1
858	Dyke Pit Pump for Organic Fluid	17P0608	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	1				0.5	1.1	1.1
859	DM water transfer pump	07P0401A/B	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	2	SS316L	m3/hr	48 m3/hr & Head -6 kg/cm2.g				1.4	3	6
860	Chiller circulation pump (Cold well)	07P1001C/D (3W+1S)	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	4	CS	m3/hr	305 m3/hr (head 60 MTR)				16	3.7	14.8
861	Chiller circulation pump (Hot well)	07P1001A/B/G/H (3W+1S)	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	4	CS	m3/hr	305 m3/hr (head 25 MTR)				16	3.7	14.8
862	Centrifugal Pump (Electrical Fire Pump), 110Mtr Head (INFRA)	07P0601A/B	Std Process	Centrifugal Pump - Fire	Centrifugal Pump - Fire	2	CS	m3/hr	410 m3/hr (head 110 MTR)				6	3.7	7.4
863	Centrifugal Pump (Jockey Pump), 108 Mtr Head (INFRA)	07P0602A/B	Std Process	Centrifugal Pump - Fire	Centrifugal Pump - Fire	2	CS	m3/hr	25 m3/hr (head 108 MTR)				2	3	6
864	Diesel Engine Pump 110Mtr Head (INFRA)	07P0603A/B	Std Process	Centrifugal Pump - Fire	Centrifugal Pump - Fire	1	CS	m3/hr	410 m3/hr (head 110 MTR)				1.5	3	3
865	Centrifugal Pump - FOR GIDC RAW WATER	07P0502A/B	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	2	CS	m3/hr	300 m3/hr				6	3.5	7.4
866	30% HCL transfer pump	07P0402	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF	m3/hr	5 m3/hr & Head- 3.0 Kg/cm2				0.5	1.1	1.1
867	48% NaOH transfer Pump	07P0403	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	1	CS	m3/hr	5 m3/hr & Head- 3.0 Kg/cm2				0.5	1.1	1.1
868	DM water reject transfer pump	07P0404A/B	Std Process	Lined Pumps (PIN-087)	Lined Pumps	2	PVDF	m3/hr	30 m3/hr & Head- 3.5 kg/cm2g				2	3	6
869	Raw water distribution pump (2W+1S) (Hydro-pneumatic pump)	07P0501A/B/C	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	3	CS	m3/hr	60 M3/hr & Head 7 kg/cm2g				4.5	3	9
870	Toluene storage tank transferring pump (Verticle extended shaft pump)	06P0303	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	SS316	m3/hr	12 m3/hr (Head- 30 M)				0.5	1.1	1.1
871	Toluene storage tank transferring pump (Verticle extended shaft pump)	06P0304	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	SS316	m3/hr	12 m3/hr (Head- 30 M)				0.5	1.1	1.1
872	Unloading and Transfer Canned centrifugal pump	6P0306	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	CS PVDF	m3/hr	10 m3/hr (Head- 50 M)				0.5	1.1	1.1
873	Emergency Canned centrifugal pump	6P0307	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	CS PVDF	m3/hr	20 m3/hr (Head- 30 M)				0.5	1.1	1.1

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
874	K2CO3 Scrubber circulation Pump 20m	6P0201A/B	Std Process	Lined Pumps (PIN-087)	Lined Pumps	2	MS PVDF	m3/hr	5 (Head- 20m)				2	3	6
875	30 % KF storage tank pump	6P0203	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	1	SS 304L	m3/hr	20 head- 20 Mtr				0.5	1.1	1.1
876	Methanol storage tank transferring pump (Verticle extended shaft pump)	6P0301	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	CS	m3/hr	10 m3/hr (Head- 50 M)				0.5	1.1	1.1
877	N-heptane storage tank transferring pump (Verticle extended shaft pump)	6P0302	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	CS	m3/hr	10 m3/hr (Head- 50 M)				0.5	1.1	1.1
878	O-Xylene storage tank transferring pump (Verticle extended shaft pump)	6P0305	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	CS	m3/hr	10 m3/hr (Head- 50 M)				0.5	1.1	1.1
879	AHF Pit Pump	6P0309	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF	m3/hr	5 m3/hr (Head- 35 M)				0.5	1.1	1.1
880	Diesel storage tank transferring pump (Verticle extended shaft pump)	6P0308	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	CS	m3/hr	7 m3/hr (Head- 50 M)				0.5	1.1	1.1
881	Effluent transfer pump for PESO tank farm pit	6P0310	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	CS	m3/hr	5 m3/hr (Head- 25 M)				0.5	1.1	1.1
882	Cooling tower circulation pump	07P0802A/B/C (2W+1S)	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	3	CS	m3/hr	1310 m3/hr (Head- 30 M)				13.5	3.7	11.1
883	Cooling Tower Blow down Transfer pump	07P0808	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	1	CS	m3/hr	12m3/hr (Head- 30 M)				0.7	3	3
884	Cooling tower circulation pump	07P0803A/B/C	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	3	CS	m3/hr	1310 m3/hr (Head- 50 M)				13.5	3.7	11.1
885	Brine circulation pump (hot well)	07P1101A/B	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	2	CS	m3/hr	70 (Head- 25 M)				1.4	3	6
886	Brine circulation pump (cold well)	07P1101C/D	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	2	CS	m3/hr	70 (Head- 50 M)				1.4	3	6
887	Cooling tower circulation pump	07P0805A/B/C (2W+1S)	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	3	CS	m3/hr	1310 m3/hr (Head- 50 M)				24	3.7	14.8
888	Cooling tower circulation pump	07P0801A/B/C	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	3	CS	m3/hr	1310 (Head- 30 mtr)				4.5	3.7	11.1
889	Cooling Tower Blow down Transfer pump (1W+1S)	07P0807	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	1	CS	m3/hr	12m3/hr Head-(30-mtr)				1.4	3	6
890	98%H2SO4 storage tank transferring pump	6P0101	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	1	CS	m3/hr	5 m3/hr (Head- 50 M)				0.5	1.1	1.1
891	48%NaOH storage tank transferring pump	6P0104	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	1	CS	m3/hr	15 m3/hr (Head- 50 M)				0.5	1.1	1.1
892	30% HCL Transfer Pump	6P0102A/B	Std Process	Lined Pumps (PIN-087)	Lined Pumps	2	PVDF	m3/hr	25 m3/hr (Head- 50 M)				2	3	6
893	HCl scrubbing tank 1 transferring pump	6P0105	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF	m3/hr	5 (Head- 35 Mtr)				0.5	1.1	1.1
894	HCl scrubbing tank 2 transferring pump	6P0110	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF	m3/hr	5 (Head- 35 Mtr)				0.5	1.1	1.1
895	Effluent Pit pump for Acid Tanks (H2SO4 & HNO3)	6P0107	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	1	SS 304L	m3/hr	2.5 m3/hr (Head- 25 M)				0.5	1.1	1.1
896	Effluent pit pump for Alkali tanks	6P0108	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	CS	m3/hr	2.5 m3/hr (Head- 25 M)				0.5	1.1	1.1
897	Effluent pit pump for 30% HCl tank	6P0109	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	CS PVDF	m3/hr	5 m3/hr (Head- 25 M)				0.5	1.1	1.1
898	DM water unit	07PK0401	Technology Package	DM water unit	DM water unit	1	Std. MOC	m3/hr	48				50	0	0
899	Water cooled chiller (7 DegC supply Temp.)	07PK1001A/B/C	Std Package	Water cooled chiller	Water cooled chiller	3	Std. MOC	TR	500				15	300	900
900	Natural Gas fired Hot oil system (Supply Temp.- 280 Deg.C)	07PK0901	Std Package	Natural Gas fired Hot oil system.	Natural Gas fired Hot oil system.	1	Std. MOC	Kcal/hr	20,00,000				40	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
901	Tanker Loading arm for 30% KF solution	6LA0201	Std Package	Loading Station	Tanker Loading arm for 30% KF solution	1	SS304	m3/hr	15				0.5	0	0
902	Side stream Filter	07PK0808	Std Package	Side stream Filter	Side stream Filter	1	MSEP	m3/hr	125				12	0	0
903	Brine Plant (40% MEG soln) (-20 Deg.c)	07PK1101	Std Package	Brine Plant.	Brine Plant.	1	Std. MOC	TR	100				4	75	75
904	Side stream Filter for AHF, Hydrolysis and Nitration	07PK0810	Std Package	Side stream Filter	Side stream Filter	1	VTS	m3/hr	125M3/HR				12	0	0
905	Tanker loading arm for 30% HCl	6LA0102	Std Package	Loading Station	Tanker loading arm for 30% HCl	1	PVDF	m3/hr	25 m3/hr (Head- 50 M)				0.5	0	0
906	PRS for N2 (7 to 1.5 kg/cm2g)	13PK0601	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	70				0.5	0	0
907	PRS for N2 (1.5 to 0.05 kg/cm2g)	13PK0602	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	70				0.5	0	0
908	PRS for N2 (7 to 1.5 kg/cm2g)	13PK0603	Std Package	Nitrogen PRS	Nitrogen PRS	1	SS304	Nm3/hr	70				0.5	0	0
909	Loading station for Sellable Spent / HBr & Scrubber ML	6LA0101	Std Package	Loading Station	Loading station for Sellable Spent / HBr & Scrubber ML	1	PTFE lined	m3/hr	15				0.5	0	0
910	Loading station for product 1	6LA0202	Std Package	Loading Station	Loading station for product 1 & 2	1	SS316L	m3/hr	15				0.5	0	0
911	Loading station for product 2	6LA0203	Std Package	Loading Station	Loading station for product 1 & 2	1	SS316L	m3/hr	15				0.5	0	0
912	Cooling tower package item for OCT/PCT and Photochlorination	07CT0802A/B	Std Package	Cooling tower package	Cooling tower package	4	PVC-FRP	TR	1000				0	0	0
913	UMPP Cooling tower package item	07CT0803A/B	Std Package	Cooling tower package	Cooling tower package	4	PVC-FRP	TR	1000				0	0	0
914	Cooling tower package item for AHF ,Nitration and Hydrolysis	07CT0805A/B/ C	Std Package	Cooling tower package	Cooling tower package	4	PVC-FRP	TR	1000				0	0	0
915	Cooling tower package item	07CT0801A/B	Std Package	Cooling tower package	Cooling tower package	4	PVC-FRP	TR	1000				0	0	0
916	PCR Transfer Pump (Jacketed) (1 W + 1s store standby)	17P0101A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	35				1.4	7.5	15
917	HAF Addition Pump (1 W + 1S store standby)	17P0102A/S	Std Process	Mechanical Diaphragm Type Pumps	AODD / EODD Diaphragm pump	2	SS316L	m3/hr	3				2	5.5	11
918	Crude PCP Feed Pump	17P0105A/B	Std Process	Centrifugal Pump - Process	Lined Pumps	2	SS316L	m3/h	1.5				2	1.1	2.2
919	Purification Column Feed Pump	17P0108A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/h	1.5				2	1.1	2.2
920	Pure PCP Distillate Transfer Pump (1 W + 1 store Standby)	17P0109A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/h	10				2	3.7	7.4
921	Residue Vessel Transfer Pump (1 W + 1 store Standby)	17P0111A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/h	5				2	1.5	3
922	Neutral Solution Day Tank Transfer Pump (1 W + 1 store Standby)	17P0112	Std Process	Lined Pumps	Lined Pumps	1	CS PVDF	m3/hr	5				0.5	1.5	1.5
923	Process Drain Tank Transfer Pump	17P0128	Std Process	Extended shaft pump	Centrifugal Pump - Process	1	SS316L	m3/hr	1				0.5	1.1	1.1
924	Aqueous Pit Transfer Pump	17P0126	Std Process	Extended shaft pump	Lined Pumps	1	CS PVDF	m3/hr	5				0.5	1.1	1.1
925	Alkali Solution Transfer Pump (1 W + 1 store Standby)	17P0113A/S	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS304	m3/hr	10				2	1.5	3
926	COD Treatment Reactor Transfer Pump (1 W + 1 store Standby)	17P0114A/S	Std Process	Lined Pumps	Lined Pumps	2	CS PVDF	m3/hr	5				2	1.5	3
927	Secondary Circuit Circulation Pump	17P0124A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	100				5.6	22	44
928	Water Scrubber Circulation Pump	17P0115A/B	Std Process	Lined Pumps	Lined Pumps	2	CS PVDF	m3/hr	15				2	3.7	7.4






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929	Alkali Storage Tank Transfer Pump	17P0116	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS304	m3/hr	10				0.5	1.5	1.5
930	Guard Scrubber Circulation Pump	17P0117A/B	Std Process	Lined Pumps	Lined Pumps	2	CS PVDF	m3/hr	55				1.4	11	22
931	Alkali Scrubber Recirculation Pump	17P0118A/B	Std Process	Lined Pumps	Lined Pumps	2	CS PVDF	m3/hr	55				1.4	11	22
932	Moisture Column Reboiler Circulation pump	17P0121A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/hr	20				2	5.5	11
933	Moisture Column Liquid Ring Vacuum Pump	17VP0101	Std Process	Vacuum pump	Vacuum pump	1	SS-316L	m3/hr	90 m3/Hr Design Pressure:- 10 Torr				0.7	11	11
934	Purification Column Reboiler Circulation Pump	17P0123A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS316L	m3/Hr	65				1.4	22	44
935	Purification Column Liquid Ring Vacuum Pump	17VP0102	Std Process	Vacuum pump	Vacuum pump	1	SS-316L	m3/hr	110 m3/Hr Design pressure:- 10 Torr				0.7	15	15
936	Knock Out Pot 1 Transfer Pump	17P0130	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	2				0.5	1.1	1.1
937	Knock Out Pot 2 Transfer Pump	17P0131	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	5				0.5	1.1	1.1
938	Refrigeration package (-20 DegC)	17PK0101	Std Package	Refrigeration package (-20 DegC)	Refrigeration package (-20 DegC)	1	Manufacturing standard	TR	100				4	220	220
939	Alburger Package including Tail tower	17PK0102	Technology Package	Graphite Equipment (Alberger)	Alberger	1	Graphite Phenolic Impregnated	m2	Absorber Area:- 191 m2 Tail Tower Dia:- 900 mm Tail Tower Ht.:- 2 m				12	0	0
940	AODD Transfer Pump	17P0127A/B	Std Process	AODD / Diaphragm pump	AODD / EODD Diaphragm pump	2	Casing :-PP	m3/hr	2				2	0	0
941	Charging Vessel Pump (AODD)	16P0105	Std Process	AODD / Diaphragm pump	AODD / EODD Diaphragm pump	1	PTFE	LPH	500				0.5	0	0
942	Reactor Dosing Pump	16P0104	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	1				0.5	1.1	1.1
943	Organic Collection Vessel Pump	16P0110	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	1				0.5	1.1	1.1
944	Reactor Pump-A	16P0101A	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	35				0.5	22	22
945	Reactor Pump-S	16P0101S	Std Process	Lined Pumps	Lined Pumps	1	PFA Lined	m3/hr	35				0.5	22	22
946	Distillation Reactor pump-A	16P0102A	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	36				0.5	11	11
947	Distillation Reactor pump-B	16P0102S	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	36				0.5	11	11
948	Water Cut Transfer Pump	16P0103A	Std Process	Lined Pumps	Lined Pumps	1	PVDF lined	m3/hr	5				0.5	3.7	3.7
949	Distilled Product Transfer pump-B	16P0103B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	5				0.5	2.2	2.2
950	Distillation Vacuum Pump	16PK0101	Std Process	Vacuum pump	Vacuum pump	1	PFA lined	m3/hr	3900				2.4	75	75
951	Secondary Circuit Pump-A	16P0106A	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr	80				0.5	22	22
952	Secondary Circuit Pump-B	16P0106B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr	80				0.5	22	22
953	Off Spec Day Tank Transfer Pump	16P0202	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	10				0.5	7.5	7.5
954	FG Day Tank Transfer Pump	16P0203	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	SS316L	m3/hr	10				0.5	3.7	3.7
955	30% HCl storage tank transfer pump	16P0204	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	m3/hr	10				0.5	11	11
956	FFA Tank Pump-A	16P0206A	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	m3/hr	15				0.5	9.32	9.32
957	FFA Tank Pump-B	16P0206B	Std Process	Lined Pumps	Lined Pumps	1	CS-PFA	m3/hr	15				0.5	9.32	9.32
958	Guard scrubber tank pump-A	16P0207A	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	22				0.5	9.32	9.32
959	Guard scrubber tank pump-B	16P0207B	Std Process	Lined Pumps	Lined Pumps	1	PFA lined	m3/hr	22				0.5	9.32	9.32
960	Utility Drain Vessel pump	16P0108	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr	5				0.5	1.5	1.5
961	LP Condensate pump	16P0109	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr	5				0.5	1.5	1.5
962	Plant Pit Pump	16P0107	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr	3				0.5	1.1	1.1

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
963	Hopper for Solid addition	16HP0101	Fabricated	Hopper for Solid addition	Hopper for Solid addition	1	MS-HDPE lined	KL	0.05				0.5	0	0
964	Toluene Dryer	13PK0101	Technology Package	Toluene Dryer (Package)	Toluene Dryer (Package)	1	CS	m3/hr	15				20	0	0
965	Belt Oil Skimmer	8BOS01002	Technology Package	Belt Type Oil Skimmer	Belt Type Oil Skimmer	1	Belt - PU Pulley- MSFRP	LPH	100				0.5	1.1	1.1
966	Belt Oil Skimmer	8BOS01029	Technology Package	Belt Type Oil Skimmer	Belt Type Oil Skimmer	1	Belt - PU Pulley- MSFRP	LPH	50				0.5	1.1	1.1
967	Belt Oil Skimmer	8BOS01034	Technology Package	Belt Type Oil Skimmer	Belt Type Oil Skimmer	1	Belt - PU Pulley- MSFRP	LPH	150				0.5	1.1	1.1
968	Belt Oil Skimmer	8BOS01046	Technology Package	Belt Type Oil Skimmer	Belt Type Oil Skimmer	1	Belt - PU Pulley- MSFRP	LPH	150				0.5	1.1	1.1
969	Primary Clarifier Mechanism	8PCM01043	Technology Package	Clarifier (Primary & Secondary)	Primary Clarifier Mechanism	1	Mild Steel Epoxy Painted	m	Suitable for 2.0 Dia. x 3.0 SWD + 0.5 FB				1	1.1	1.1
970	Primary Clarifier Mechanism	8PCM01055	Technology Package	Clarifier (Primary & Secondary)	Primary Clarifier Mechanism	1	MSEP	m	Suitable for 2.9 Dia. x 3.0 LD + 0.5 FB				1	1.1	1.1
971	Secondary Clarifier Mechanism	8SCM01064	Technology Package	Clarifier (Primary & Secondary)	Secondary Clarifier Mechanism	1	MSEP	m	Suitable for 7.0 Dia. x 3.0 LD + 0.5 FB				1	3.7	3.7
972	Steam stripper bottom transfer pump	8P01100A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CS	m3/hr	2.5				2	1.1	2.2
973	Stripper Bottom Transfer pumps	8P01101A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CS	m3/hr	10 20				2	2.2	4.4
974	Ammonia recovery Scrubber 1 circulation pump	8P01102A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS 304	m3/hr	7				2	1.5	3
975	Ammonia recovery Scrubber 2 circulation pump	8P01103A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	SS 304	m3/hr	7				2	1.5	3
976	Guard Scrubber circulation Pump	8P01104A/B	Std Process	Lined Pumps	Lined Pumps	2	CS PVDF lined	m3/hr	6				2	1.1	2.2
977	Stripper Condensate transfer pump	8P01107A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CS	m3/hr m	15 17				2	3.7	7.4
978	Cooling Tower package (Common for both ETP)	8CT0101	Std Package	Cooling tower package	Cooling tower package	1	Structure: MSHDG Casing, Fan Deck: FRP, Fills, Drift Eliminator: PV, Fan Blade: FRP, Supports & Foundation Bolts: SA	TR	800				0	9.32	9.32
979	AODD Pumps	8P01071A/B/C/D/E/S1/S2/S3	Std Process	AODD / Diaphragm pump	AODD / EODD Diaphragm pump	8	PVDF	m3/hr m	5 15				1	0	0
980	Chemical Dosing system for cooling tower	8CD0101	Std Package	Chemical dosing system	Chemical dosing system	1	VTS	-	VTS				1	1.1	1.1
981	FeSO4 Dosing Pump	8P01010A/B	Std Process	Metering / Dosing Pump	Metering / Dosing Pump	2	PVDF	LPH m	0-1500 30.0				2	1.1	2.2
982	Urea Dosing Pump	8P01057A/B	Std Package	Dosing tank with Agitator & Pump	Metering / Dosing Pump	2	Polypropylene	LPH m	12 20				2	1.1	2.2
983	DAP Dosing Pump	8P01058A/B	Std Package	Dosing tank with Agitator & Pump	Metering / Dosing Pump	2	Polypropylene	LPH m	12 20				2	1.1	2.2
984	Utility RO Reject Transfer pump	8P02010A/B	Std Process	Extended shaft pump	Extended shaft pump	2	CS	m3/hr m	3 10 Depth of tank: 4.0 m				2	1.1	2.2
985	Flash Mixer Feed Pump	8P01037A/B	Std Process	Extended shaft pump	Extended shaft pump	2	SS 316	m3/hr m	3.5 15				2	1.1	2.2
986	MVR Drain Transfer Pump	8P01044A/B	Std Process	Extended shaft pump	Extended shaft pump	2	Stainless Type/ Stainless Type 316	m3/hr m	10 30 Depth of Tank: 1.5 LD+ 0.5 FB				2	3.7	7.4
987	Flash Mixer Feed Pump	8P01049A/B	Std Process	Extended shaft pump	Extended shaft pump	2	SS 316	m3/hr m	6.5 15 Depth of tank: LD: 4.0 m, FB: 0.5m				2	1.5	3

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
988	Aeration Feed Pump	8P01056A/B	Std Process	Extended shaft pump	Extended shaft pump	2	CS	m3/hr m	12.5 15 Depth of tank: LD: 4.0 m, FB: 0.5m				2	1.5	3
989	RO Permeate Transfer pump	8P02073A/B	Std Process	Extended shaft pump	Extended shaft pump	2	CS	m3/hr m	14 30 Depth of tank: LD: 4.0 m, FB: 0.5m Application: Clear Water				2	3.7	7.4
990	Guard Effluent Transfer Pump	8P01081A/B	Std Process	Extended shaft pump	Extended shaft pump	2	SS304	m3/hr m	10 30				2	3.7	7.4
991	RO Permeate pump	8P02007A/B	Std Process	Extended shaft pump	Extended shaft pump	2	CS	m3/hr m	32 30 Depth of tank: 4.0LD + 0.5 FB Application: Clear Water				4	1.5	3
992	Side Stream Filter	08F0101	Std Package	Side stream Filter	Side stream Filter	1	MSEP	m3/hr	18				12	0	0
993	Final Effluent Transfer Pump (NCTL Discharge)	8P02001A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	CS	m3/hr m	60 65				1.4	18.5	37
994	Effluent Transfer Pump (For 3 Day Tank - Common for both ETP's)	8P02005A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	CS	m3/hr m	60 30 (AIL to check as per requirement)				1.4	11	22
995	Common RO Permeate pump	8P02009A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	CS	m3/hr m	45 40 Application: Clear Water				1.4	11	22
996	Fenton Feed Pump	8P01007A/B	Std Process	Lined Pumps	Lined Pumps	2	CS PVDF lined	m3/hr m	6.0 20 Depth of tank: 4.0 m LD + 0.5m FB				2	1.1	2.2
997	Fenton reactor bottom transfer pump	8P01013A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PVDF	m3/hr m	20 12				2	2.2	4.4
998	H2O2 Tanker Unloading Pump	8P01016	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	Stainless Steel 316L	m3/hr m	10.0 17				0.5	1.5	1.5
999	Cooling water circulation pump	08CTP0101A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	CS	m3/hr	335 40				6	75	150
1000	Side Stream Filter Circulation pump	08CTP0102	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	1	CS	m3/hr	18 20				0.5	3.7	3.7
1001	Filter Press Mechanism Pump	8P01020	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	1	CS	m3/hr	3 100				0.5	3.7	3.7
1002	Sludge Recirculation/ Transfer Pump	8P01065A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	Cast Iron	m3/hr m	12.5 6				2	1.1	2.2
1003	Sludge Transfer Pump for primary clarifier of stream-B	8P01069A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CI	m3/hr m	3.5 6				2	1.1	2.2
1004	Sludge Transfer Pump for primary clarifier of stream-C	8P01070A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CI	m3/hr m	6.6 6				2	1.1	2.2
1005	Stripper (Filtrate) Feed Pump (4/5)	8P01025A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CS	m3/hr m	1.5 25				2	1.1	2.2
1006	Stripper Feed Pump	8P01032A/B	Std Process	Lined Pumps	Lined Pumps	2	CS-PVDF	m3/hr m	2.2 30				0.5	1.1	1.1
1007	Filter Press	8FP01076A/B	Technology Package	Filterpress	Filterpress	2	MSFRP	m3/hr. Kg/cm2	Sludge inlet flow: 5.0 Type of sludge: Chemical sludge + Biological sludge Sludge: 127.1 Kg/day Feeding pressure: 3 Solid Concentration: 1.0% Specific Gravity of sludge: 1.05 Outlet Sludge Concentration: 20%				40	5.5	11
1008	Acid Dosing Pump (PH correction)	8P01004	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	PTFE/ PP	LPH m	100 30.0				0.5	1.1	1.1

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1009	Acid Dosing Pump (PH correction) - Store Standby	8P01004S1/S2/S3	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	3	PTFE/ PP	LPH m	100 30.0				3	1.1	3.3
1010	Alkali Dosing Pump (PH correction)	8P01006	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1011	Alkali Dosing Pump (PH correction) - Store Standby	8P01006S1/S2/S3	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	3	Polypropylene	LPH m	0-100 30.0				3	1.1	3.3
1012	H2SO4 Dosing Pump	8P01012A/B	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	2	PVDF	LPH m	0-50 30.0				2	1.1	2.2
1013	Polyelectrolyte Dosing pump	8P01023B	Std Package	Dosing tank with Agitator & Pump	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH Kg/cm2	160 5.0				2	1.1	2.2
1014	Lime Dosing pump (Filtrate feed to stripper)	8P01026	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	SS316	LPH m	100 30				0.5	1.1	1.1
1015	Lime Dosing pump (Ph Neutralization reactor)	8P01027	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	SS316	LPH m	1500 30				0.5	1.1	1.1
1016	Acid Dosing Pump (PH correction)	8P01030	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1017	Alkali Dosing Pump (PH correction)	8P01031	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1018	Acid Dosing Pump (PH correction)	8P01035	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1019	Alkali Dosing Pump (PH correction)	8P01036	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1020	Lime Dosing pump for Stream B	8P01040	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	SS316	LPH m	100 60				0.5	1.1	1.1
1021	Alum Dosing pump for Stream B	8P01041	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	100 60				0.5	1.1	1.1
1022	Polyelectrolyte Dosing pump for Stream B	8P01042	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	100 60				0.5	1.1	1.1
1023	Acid Dosing Pump (PH correction)	8P01047	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1024	Alkali Dosing Pump (PH correction)	8P01048	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	0-100 30.0				0.5	1.1	1.1
1025	Lime Dosing pump for Stream C	8P01052	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	SS316	LPH m	100 60				0.5	1.1	1.1
1026	Alum Dosing pump for Stream C	8P01053	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	100 60				0.5	1.1	1.1
1027	Polyelectrolyte Dosing pump for Stream C	8P01054	Std Process	Mechanical Diaphragm Type Pumps	Mechanical Diaphragm Type Pumps	1	Polypropylene	LPH m	100 60				0.5	1.1	1.1
1028	Polyelectrolyte Dosing pump	8P01079A/B	Std Package	Dosing tank with Agitator & Pump	Mechanical Diaphragm Type Pumps	2	Polypropylene	LPH Kg/cm2	150 5.0				2	1.1	2.2
1029	H2O2 Dosing Pump	8P01015A/B	Std Process	Mechanical Diaphragm Type Pumps	Metering / Dosing Pump	2	Stainless Steel 316L	LPH m	0-1500 30.0				2	1.1	2.2
1030	Hypochlorite Dosing pump	8P01067A/B	Std Package	Dosing tank with Agitator & Pump	Metering / Dosing Pump	2	Polypropylene	LPH m	6 30				2	1.1	2.2
1031	Filter Press Feed Pump	8P01019A/B	Std Process	Centrifugal Pump - Process	Centrifugal Pump - Process	2	CS	m3/hr. m	10 30				2	3.7	7.4

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1032	Filterpress Feed Pump	8P01075A/B	Std Process	Screw Pump	Screw Pump	2	Pump : CI Roter / Shaft : SS316	m3/hr. m	5 30 Type: Screw pump				2	3.7	7.4
1033	Stripper column bottom cooler	8.00E+102	Fabricated	Shell & Tube Heat Exchangers	Shell & Tube Heat Exchangers	1	CS	SQM	6				0.7	0	0
1034	Ammonia recovery scrubber 1 circulation heat exchanger	8.00E+103	Std Process	PHE	PHE	1	SS 304	SQM	XX				0.8	0	0
1035	Ammonia recovery scrubber 2 circulation heat exchanger	8.00E+104	Std Process	PHE	PHE	1	SS 304	SQM	XX				0.5	0	0
1036	Agitator- FeSO4 Dosing Tank	8A01009A/B	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	2	MSFRP	HP	Suitable for 3000 Litres Tank i.e. 1.5 Hp Impeller: Axial Gear Box:Worm Type				2	1.1	2.2
1037	Agitator- Dewatering-1 Polyelectrolyte Dosing	8A01022B	Std Package	Dosing tank with Agitator & Pump	Slow Speed Agitator	1	Stainless Type 304/304L SS	m	Suitable for 800 Liters tank				2	1.1	2.2
1038	Flash Mixer	8MI01038	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	1	Stainless Type 304/304L SS	m	Suitable for 1.0 L x 0.5 W x 0.5 m LD + 0.5 FB Impeller: Axial Gear Box:Worm Type				0.5	1.1	1.1
1039	Flash Mixer	8MI01050	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	1	Stainless Type 304/304L SS	m	Suitable for 1.3 L x 0.5 W x 0.7 m LD + 0.5 FB Impeller: Axial Gear Box: WormType				0.5	1.1	1.1
1040	Agitator for Nutrient Dosing Tank	8A01059A/B	Std Package	Dosing tank with Agitator & Pump	Slow Speed Agitator	2	Stainless Type 304/304L SS	m	Suitable for 200 Liters tank				2	1.1	2.2
1041	Agitator- Sludge Holding Tank	8A01074	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	1	Stainless Type 304/304L SS	m	Suitable for 2.4 L x 2.5 W x 3.0 LD + 0.5 FB Impeller: Axial Gear Box: WormType				1	7.5	7.5
1042	Agitator- Polyelectrolyte Dosing	8A01078A/B	Std Package	Dosing tank with Agitator & Pump	Slow Speed Agitator	2	Stainless Type 304/304L SS	m	Suitable for 400 Liters tank				2	1.1	2.2
1043	Flocculator	8FL01039	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Flocculator	1	Stainless Type 304/304L SS / Mildsteel	m	Suitable for 1.0 L x 1.0 W x 0.8 m LD + 0.5 FB Impeller: Radial Gear Box:Worm Type				0.5	1.1	1.1
1044	Flocculator	8FL01051	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Flocculator	1	Stainless Type 304/304L SS / CU	m	Suitable for 2.2 L x 2.2 W x 1.0 m LD + 0.5 FB Impeller: Radial Gear Box: WormType				0.5	1.1	1.1
1045	Agitator- Lime Dosing Tank	8A01083A/B	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	2	Stainless Type 304/304L SS	m	Suitable for 2.4 L x 1.2 W x 1.0 LD + 0.5 FB Impeller: Axial Gear Box: WormType				2	2.2	4.4
1046	Agitator- Alum Dosing Tank	8A01084A/B	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	2	MSFRP	m	Suitable for 1.2 L x 1.2 W x 1.0 LD + 0.5 FB Impeller: Axial Gear Box: WormType				2	1.1	2.2
1047	Agitator- Polyelectrolyte Dosing	8A01085A/B	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator	2	Stainless Type 304/304L SS	m	Suitable for 1.2 L x 1.2 W x 1.0 LD + 0.5 FB Impeller: Axial Gear Box: WormType				2	1.1	2.2
1048	Plant Drain Sump Pump	8P02004A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	Body/Impeller: Stainless Steel 316/ Guide Pipe & Chain: Stainless Steel	m3/hr m	40 20 Accessories: Duckfoot Bent, PMU, Guide Pipe - 4 m, Lifting Chain - 6 m , Cable - 10 m				4	7.5	15
1049	Water Storage Tank for Filter Press	8ST0105	Fabricated	Non-Metallic Lot-2	Tank/Vessel	1	HDPE	m3	3				0.5	0	0

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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1050	Dewatering Pump	8P01080A/B	Std Process	Centrifugal Pump - Non Process	Centrifugal Pump - Non Process	2	SS304	m3/hr. m	10 30 Accessories: Lifting Nylon Rope - 6 m , Cable - 10 m (Store Standby - Common for both ETP's for dewatering of during maintenance)				2	3.7	7.4
1051	Process Air Blower	8B01061A/B	Std Process	Twin Lobe Blower	Twin Lobe	2	Cast Iron	m3/hr Kg/cm2	480 0.50 RPM<1500				4	15	30
1052	Mixing Blower	8B01063A/B	Std Process	Twin Lobe Blower	Twin Lobe	2	Cast Iron	m3/hr Kg/cm2	1040 0.55 Type: Twin Lobe air cooled RPM: < 1500				4	15	30
1053	PDS FOR RESIDUE TANKER UNLOADING PUMP	18P0604	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	SS304L	m3/hr	2				0.5	1.5	1.5
1054	Sparkler Filter -1	18F0301A/B	Std Package	Sparkler Filter	Sparkler Filter		PFA Lined	m2	4				1.5	5.5	11
1055	Sparkler Filter -2	18F0302A/B	Std Package	Sparkler Filter	Sparkler Filter		PFA Lined	m2	4				1.5	5.5	11
1056	Decanter - 1	18V0407	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL		Height: 1.7 m (TI to TI) Dia: 0.85 m (1 KL)				10	0	0
1057	Decanter - 2	18V0408	Std Process	Glass Lined Equipment	Tank/Vessel	1	MSGSL		Height: 1.7 m (TI to TI) Dia: 0.85 m (1 KL)				6.5	0	0
1058	Toluene reactor-Packed bed bubble column	13R0101	Fabricated	Lead Bonded	Reactor	1	CS- lead bonded		25				20	0	0
1059	Chlorinator -2	13R0301	Fabricated	Lead Bonded	Reactor	1	Shell - CS- lead bonded Internals - 1" MS rings		6				8	0	0
1060	Distillation Reactor Reboiler	1.60E+104	Existing HE at Vapi will be used with some modifications.	Shell & Tube Heat Exchangers( Monel & Duplex)	Shell & Tube Heat Exchangers		Tube: Monel-400 shell: CS	SQM	40				1	0	0
1061	Tail Gas Scrubber Column	16C0201 (16PK0201)	Technology Package	Graphite Equipment (Alberger)	Alberger	1	Column: Impervious Graphite Packing: Random-Ceramic intalox saddle		VTS				2	0	0
1062	Falling Film Heat Exchanger	16E0201 (16PK0201)	Technology Package	Graphite Equipment (Alberger)	Alberger	1	Shell: Graphite Tubes: Graphite		VTS				3	0	0
1063	Sparkler Filter	17F0101A/B	Std Package	Sparkler filter	Sparkler filter	2	CS-PVDF Lined or CS-PFA or CS-PTFE		Wet cake holding Capacity : 70 Litres				1.5	5.5	11
1064	Moisture Distillation Column	17C0106	Fabricated	Metallic Column	Metallic Column	1	SS-316L		Column Dia :- 530 mm Section 1:- Dia:- 530 mm Structured Packing Type:- Mellapak 352Y Section 1 Ht:- 5 M Section 2:- Dia:- 530 mm Structured Packing Type:- Mellpak 352Y Section 2 Ht:- 4 M				4	0	0
1065	Train-1 HCL stripper Ejector Baroleg tank	14V0210	Fabricated	Non-Metallic	Tank/Vessel		PP FRP	m3	0.2				0.5	0	0
1066	Train-2 HCL stripper Ejector Baroleg tank	14V0810	Fabricated	Non-Metallic	Tank/Vessel		PP FRP	m3	0.2				0.5	0	0
1067	Secondary Circuit PHE	1.60E+107	Std Process	PHE	PHE	1	SS304L		517794 kcal/hr				1	0	0
1068	Train-1 HCl stripper condensate transfer pump	14P0212	Std Process	Lined Pumps	Lined Pumps		PFA lined	m3/hr	2				0.5	1.5	1.5
1069	HCl Stripper 1 Liquid Jet Ejector	18PK0309	Std Package	Liquid Jet Ejector	HCl Stripper Liquid Jet Ejector	1	Graphite		Load =40 kg/hr Pressure = 50 torr				1	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1070	HCl Stripper 2 Liquid Jet Ejector	18PK0311	Std Package	Liquid Jet Ejector	HCl Stripper Liquid Jet Ejector	1	Graphite		Load =74 kg/hr Pressure = 70 torr				1	0	0
1071	CRT-34 distillation column LRVF	18PK0310	Std Process	Vacuum pump	Vacuum pump	1	SS304L		Load =39 kg/hr Pressure = 10 torr				0.5	37	37
1072	CRT-35 distillation column LRVF	18PK0312	Std Process	Vacuum pump	Vacuum pump	1	SS-316L		Load =115 kg/hr Pressure = 30 torr				0.7	37	37
1073	Side stream Filter Circulation pump	07CT0809	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process		CS	m3/hr	125 m3/hr (Head- 25 M)				0.7	3	3
1074	Side stream Filter Circulation pump	07P0811	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process		CS	m3/hr	190 m3/hr (Head- 25 M)				1	3	3
1075	Side stream Filter Circulation pump	07P0806	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process		CS	m3/hr	125(Head- 25 M)				0.7	3	3
1076	Air Compressor - For Instrument air / Plant air (2W+1S)	07PK0101 (A/B/C)	Std Package	Air Compressor - For Instrument air / Plant air	Air Compressor - For Instrument air / Plant air	3	Std. MOC		2000 NM3/Hr@ 7.0 Kg/cm2g				15	150	450
1077	Air dryer For Instrument air	07PK0102A/B	Std Package	Air dryer For Instrument air	Air dryer For Instrument air	2	Std. MOC		2000 NM3/Hr				10	0	0
1078	Breathing Air compressor package (2Working )	07PK0301A/B	Std Package	Breathing Air compressor package	Breathing Air compressor package	2	Std. MOC		90 CFM @6.5 kg/cm2g				2	20	40
1079	N2 package (PSA unit)	07PK0201	Std Package	N2 package (PSA unit)	N2 package (PSA unit)	1	Std. MOC		700 NM3/Hr				15	150	150
1080	Side stream Filter for OCT PCT and Photochlorination	07PK0803	Std Package	Side stream Filter	Side stream Filter	1	VTS		125 m3/hr				12	0	0
1081	Chemical dosing system for 2500 m3/hr Cooling Tower	07PK0804	Std Package	Chemical dosing system	Chemical dosing system	1	VTS		VTS				0.5	3.7	3.7
1082	Chemical dosing system for 2500 m3/hr Cooling Tower	07PK0805	Std Package	Chemical dosing system	Chemical dosing system	1	VTS		VTS				0.5	3.7	3.7
1083	Chemical dosing system for 2790 m3/hr Cooling Tower	07PK0807	Std Package	Chemical dosing system	Chemical dosing system	1	VTS		VTS				0.5	3.7	3.7
1084	Side stream Filter	07PK0801	Std Package	Side stream Filter	Side stream Filter	1	VTS		125 M3/HR				12	0	0
1085	Chemical dosing system for 2500 m3/hr Cooling Tower	07PK0802	Std Package	Chemical dosing system	Chemical dosing system	1	VTS		VTS				0.5	3.7	3.7
1086	Scrubber column	6C0251A/B	Fabricated	Non-Metallic	Column	2	PP-FRP with ceramic packings		VTS				1	0	0
1087	Scrubber tank(Acidic)	6V0251	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP		5 KI				1	0	0
1088	Scrubber tank(Acidic)	6V0252	Fabricated	Non-Metallic	Tank/Vessel	1	PP-FRP		5 KL				1	0	0
1089	Recirculation pump	6P0251A/B	Std Process	Lined Pumps (PIN-087)	Lined Pumps	2	PVDF lined		10 m3/h				2	3	6
1090	Recirculation pump	6P0251C	Std Process	Lined Pumps (PIN-087)	Lined Pumps	1	PVDF lined		10 m3/h				0.5	1.1	1.1
1091	Acidic Scrubber Cooler stage 1	6HE0251A	Std Process	Graphite Equipment	HE	1	PTFE Impregnated Graphite		VTS				4	0	0
1092	Water Cooler	6HE0251B	Std Process	PHE	PHE	1	Titanium		VTS				1	0	0
1093	Blower	6B0251A/B	Std Process	Centrifugal Blower (PIN-087)	Centrifugal Blower	2	PP-FRP		150 m3/h				4	15	30
1094	Aq Layer transfer Pump	17P0106	Std Process	Lined Pumps		1	CS PVDF	m3/h	5				0.5	1.1	1.1
1095	Weighting Scale	16PK0102	Instrument Pkg	Weighting Scale	Weighting Scale		VTS	Kg	500				0.5	0	0
1096	Steam condensate Package	16PK0202	Std Process	PPPPU pump	Steam condensate Package	1	VTS		VTS				0.5	0	0
1097	Drum Filling System	16PK0103	Technology Package	Drum Filling Station	Drum Filling Station	1	VTS		VTS				0.5	0	0
1098	Fine Bubble Diffusers (Quantity - 96)	8AD01062		Fine Bubble Diffusers.	Fine Bubble Diffusers.	1	Silicone	m3/hr m	10 Type: Retrievable with guide rope Size: 90 mm OD X 1000 mm long Tank Height: 5.0 LD + 0.5 FB				0	0	0



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1099	Filter Press	8FP01020A/B	Technology Package	Filterpress	Filterpress	2	MSFRP		Sludge inlet flow: 90.0 m <sup>3</sup> /day Type of sludge: Chemical sludge Sludge: 472.0 Kg/day Feeding pressure: 3 Solid Concentration: 0.5%-1.0% Specific Gravity of sludge: 1.2 Outlet Sludge Concentration: 20%				40	5.5	11
1100	Manual Fine Bar Screen	8MFBS01001A/B		Manual Screen	Manual Screen	2	MSFRP	m	Suitable for 1.30 L x 0.5 W x 0.25 m LD + 0.4 FB Inclination: 50 Deg. Bar Specs: 25 mm Flat x 5 mm thick Bar Spacing: 10 mm				2	0	0
1101	Manual Fine Bar Screen	8MFBS01028A/B		Manual Screen	Manual Screen	2	MSFRP	m	Suitable for 1.3 L x 0.5 W x 0.25 m LD + 0.4 FB Inclination: 50 Deg. Bar Specs: 25 mm Flat x 5 mm thick Bar Spacing: 10 mm				2	0	0
1102	Manual Fine Bar Screen	8MFBS01033A/B		Manual Screen	Manual Screen	2	MSFRP	m	Suitable for 1.3 L x 0.5 W x 0.25 m LD + 0.4 FB Inclination: 50 Deg. Bar Specs: 25 mm Flat x 5 mm thick Bar Spacing: 10 mm				2	0	0
1103	Manual Fine Bar Screen	8MFBS01045A/B		Manual Screen	Manual Screen	2	MSFRP	m	Suitable for 1.3 L x 0.5 W x 0.25 m LD + 0.4 FB Inclination: 50 Deg. Bar Specs: 25 mm Flat x 5 mm thick Bar Spacing: 10 mm				2	0	0
1104	Agitator- Lime/Alkali Dosing Tank	8A01068	Technology Package	Slow Speed Agitator & Flocculator	Slow Speed Agitator		Stainless Type 316/316L SS	HP	Suitable for 2500 Litres Tank i.e. 1.5 Hp Impeller: Axial Gear Box: Worm Type				0.5	1.1	1.1
1105	Train-1 Ci2 Cartridge Filter-1	14F0101A/B	Std Package	Cartridge Filter	Cartridge Filter	2	PTFE Lined						1	0	0
1106	Train-1 Ci2 Magnetic Filter-1	14F0102A/B	Std Package	Magnetic Filter	Magnetic Filter	2	PTFE Lined						1	0	0
1107	Train-1 CRF-02 Feed Cartridge Filter	14F0103A/B	Std Package	Cartridge Filter	Cartridge Filter	2	PTFE Lined						1	0	0
1108	Train-1 CRF-02 feed Magnetic Filter	14F0104A/B	Std Package	Magnetic Filter	Magnetic Filter	2	PTFE Lined						1	0	0
1109	Train-1 Batch reactor feed magnetic Filter	14F0107A/B	Std Package	Magnetic Filter	Magnetic Filter	2	PTFE Lined						1	0	0
1110	Train-2 Ci2 Cartridge Filter-1	14F0701A/B	Std Package	Cartridge Filter	Cartridge Filter	2	PTFE Lined						1	0	0
1111	Train-2 Ci2 Magnetic Filter-1	14F0702A/B	Std Package	Magnetic Filter	Magnetic Filter	2	PTFE Lined						1	0	0
1112	Train-2 CRF-01 Feed Cartridge Filter	14F0703A/B	Std Package	Cartridge Filter	Cartridge Filter	2	PTFE Lined						1	0	0
1113	Train-2 CRF-01 feed Magnetic Filter	14F0704A/B	Std Package	Magnetic Filter	Magnetic Filter	2	PTFE Lined						1	0	0
1114	Train-2 Batch reactor feed magnetic Filter	14F0707A/B	Std Package	Magnetic Filter	Magnetic Filter	2	PTFE Lined						1	0	0
1115	Train-1 Nitrogen cartridge Filter-1	14F0108A/B	Std Package	Cartridge Filter	Cartridge Filter	2	SS 304L						1	0	0
1116	Train-1 DM water cartridge Filter-1	14F0501	Std Package	Cartridge Filter	Cartridge Filter	1	SS 304						0.5	0	0
1117	Train-2 DM water cartridge Filter - 2	14F0503	Std Package	Cartridge Filter	Cartridge Filter	1	SS 304						0.5	0	0



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Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1118	MVR Packaged Plant (238 KLD)	8PK0203	Technology Package	MVR Packaged Plant	MVR Packaged Plant	1	As per manufacturers standards						120	75	75
1119	ATFD Packaged plant	8PK0103	Technology Package	ATFD Packaged plant	ATFD Packaged plant	1	As per manufacturers standards						10	10	10
1120	Condensate recovery Package	8PK0104	Std Process	PPPPU pump	PPPPU pump	1			Cap: 2365 / 3865 / 4638 Back Pressure: 1 kg/cm2g CS				1	0	0
1121	Bolted Tank for Raw Water (INFRA)	07ST0501A/B	Fabricated	GFS Bolted	Tank/Vessel	2	Glass Fused Steel	m3	3000						
1122	Bolted Tank for Fire Water (INFRA)	07ST0601	Fabricated	GFS Bolted	Tank/Vessel	1	Glass Fused Steel	m3	1250						
1123	Utility ETP Equalization Tank	8EQT02104	Fabricated	GFS Bolted	Tank/Vessel	1	Glass Fused Steel	m3	813						
1124	RO package with pre-treatment for Utility ETP	8PK0202	Technology Package	RO package with pre-treatment	RO package with pre-treatment	1							0	0	0
1125	RO package with pre-treatment	8PK0201	Technology Package	RO package with pre-treatment	RO package with pre-treatment	1							0	0	0
1126	Sand Filter	07PK0501	Std Package	Side stream Filter	Side stream Filter	2	IS2062	m3/hr	150 m3/hr						
1127	Toluene storage tank transferring pump (Verticle extended shaft pump)	06P0311	Std Process	Extended shaft pump (PIN-087)	Extended shaft pump	1	SS316	m3/hr	12 m3/hr (Head- 30 M)						
1128	Cooling Tower Blow down Transfer pump (1W) (Area code 16,17 and 18)	07P0809	Std Process	Centrifugal Pump - Non Process (PIN-087)	Centrifugal Pump - Non Process	1	CS	m3/hr	12 m3/hr (Head- 30 M)						
1129	30% HCL Unloading Pump	6P0111	Std Process	Centrifugal Pump - Process (PIN-087)	Centrifugal Pump - Process	1	PVDF	m3/hr	20 m3/hr (Head- 30 M)						
1130	Train-1 CRT-07 product cooler	1.40E+223	Std Process	Graphite Equipment	Cooler	1	PTFE Impregnated Graphite	m2	0.5						
1131	Train-1 CRT-08 product cooler	1.40E+224	Std Process	Graphite Equipment	Cooler	1	PTFE Impregnated Graphite	m2	1.5						
1132	Train-1 CRT-07 column Steam flash drum	14V0215	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Vessel	1	CS	m3	3						
1133	Train-1 CRT-08 column Steam flash drum	14V0216	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Vessel	1	CS	m3	3						
1134	Train 1 CRT-07 column Steam flash drum pump	14P0214	Std Process	Centrifugal Pump - Process	Pump	1	CS	m3/hr	88 Head 28						
1135	Train 1 CRT-08 column Steam flash drum pump	14P0215A/S	Std Process	Centrifugal Pump - Process	Pump	2	CS	m3/hr	92 Head 28						
1136	Scrubber Relief pot	14V0311	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Vessel	1	CS	m3	3.5						
1137	Scrubber Relief pot pump	14P0311	Std Process	Centrifugal Pump - Process	Pump	1	CS	m3/hr	2 Head 19						
1138	Falling Film Absorber	13E0404	Technology Package	Graphite Equipment (Alberger)	Alberger		Shell: CS Tubes: Graphite	m2 kcal/hr	VTS						
1139	Tail Gas Tower	13C0403	Std Process	Graphite Equipment	Column		Column: Impervious Graphite Packing: Random-Ceramic intalox saddle	m m	VTS						
1140	Condensate monitoring system	13PK0511	Std Process	PPPPU pump	Condensate monitoring system								0.5	0	0
1141	Dockleveler	Dockleveler	Std Process	Dockleveler	Dockleveler	1			10 MT				1		
1142	Steam PRS for HPS (11 KG/CM2 G)	14PK1301	Std Package	Steam PRS	Steam PRS	1	CS		775						
1143	Steam PRS for HPS (9 KG/CM2 G)	14PK1302	Std Package	Steam PRS	Steam PRS	1	CS		2322						
1144	Steam PRS for MPS (7.5 KG/CM2 G)	14PK1303	Std Package	Steam PRS	Steam PRS	1	CS		2608						
1145	Steam PRS for MPS from PIN-085 (7.5 KG/CM2 G)	14PK1303A	Std Package	Steam PRS	Steam PRS	1	CS		2608						
1146	Steam PRS for LPS (3.5 KG/CM2 G)	14PK1304	Std Package	Steam PRS	Steam PRS	1	CS		953						



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1147	Nitrogen PRS (1.5 Kg/Cm2 g)	14PK1305	Std Package	Nitrogen PRS	Nitrogen PRS	1	CS		351						
1148	Nitrogen PRS (0.05 Kg/Cm2 g)	14PK1306	Std Package	Nitrogen PRS	Nitrogen PRS	1	CS		351						
1149	Hot Oil Dump Tank	18V0508	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Vessel	1	CS		2.5						
1150	Hot Oil Transfer Pump	18P0505	Std Process	Centrifugal Pump - Non Process	Pump	1	CS		10						
1151	Drum Filling Station CRT-34	18PK0313	Technology Package	Drum Filling Station	Drum Filling Station	1	SS304L		1						
1152	Drum Filling Station CRT-35	18PK0314	Technology Package	Drum Filling Station	Drum Filling Station	1	SS304L		0.5						
1153	ANF - 4	18F0303	Technology Package	ANF- CS	ANF	1	CS		6						
1154	DCT Day Tank	18V0320	Fabricated	Metallic Tanks, Vessels (Non-Critical)	Vessel	1	CS		13						
1155	DCT Charging Pump	18P0312	Std Process	Centrifugal Pump - Process	Pump	1	CS		12						
1156	Na2CO3 Jumbo Bag Unloading Package	18PK0315	Technology Package	Jumbo Bag Unloading Package	Jumbo Bag Unloading Package	1	CS		1000						
1157	Candle Filter - 5	18F0305A/B	Std Package	Cartridge Filter	Filter	2	CS-PFA		7						
1158	Candle Filter - 4	18F0304A/B	Std Package	Cartridge Filter	Filter	2	CS-PFA		7						
1159	Secondary Condenser Pot	16V0113	Std Process	Glass Lined Equipment - Lot -2	Vessel	1	MSGSL		0.5						
1160	Pressure Reducing Station for steam	7PRS1103	Std Package	Steam PRS	PRS	1	CS		20 kg/cm2(g) to 3.4 kg/cm2(g)						
1161	Pressure Reducing Station for Air	7PRS0102	Std Package	Steam PRS	PRS	1	SS304		7 kg/cm2(g) to 1.5 kg/cm2(g)						
1162	Pressure Reducing Station for N2	7PRS0203	Std Package	Nitrogen PRS	PRS	1	SS304		8 kg/cm2(g) to 1 kg/cm2(g)						
1163	DM Water Storage Tank	20ST0101	Fabricated	GFS Bolted	Tank	1	Glass Fused Steel		300						
1164	Ejector for HCl scrubbing tank 1	6EJ0101			Ejector		PVDF						0.5	0	0
1165	Ejector for HCl scrubbing tank 2	6EJ0102			Ejector		PVDF						0.5	0	0
1166	Floor Drain Pit	14PP0101		RCC Tanks	RCC Tanks		RCC	KL	2						
1167	Train-1 HCL stripper Steam Ejector condensate Neutralization tank for train 1 & 2	14V0211		RCC Tanks	RCC Tanks		RCC (Tile lining)	m3	2						
1168	Drain Pit	13V0502		RCC Tanks	RCC Tanks		RCC	KL	5						
1169	Floor Wash Vessel	18V0506		RCC Tanks	RCC Tanks		RCC	KI	10						
1170	DM water reject Tank (Underground)	07V0401		RCC Tanks	RCC Tanks		RCC tank (Acid proof)	m3	250						
1171	AHF wash Pit	6ST0307		RCC Tanks	RCC Tanks		Acid Tiled	KL	10						
1172	Cooling Tower Blow down PIT	07ST0801		RCC Tanks	RCC Tanks		RCC	m3	150						
1173	Plant Pit	16PP0101		RCC Tanks	RCC Tanks		RCC	KL	2.5						
1174	Flash Mixer Tank	8FMT02105		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX1.2WX0.7LD+0.5 FB						
1175	Flocculation Tank	8FLT02106		RCC Tanks	RCC Tanks		RCC M30	m	2.8LX2.8WX2.0LD+0.5 FB						
1176	Outlet Chamber	8OC02107		RCC Tanks	RCC Tanks		RCC M30	m	1.0LX1.0WX0.5LD+0.5 FB						
1177	Lime Dosing Tank	8DT02108A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.2 LX1.2WX1.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						



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1178	Alum Dosing Tank	8DT02109A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX1.2WX1.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1179	Polyelectrolyte Dosing Tank	8DT02110A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.1LX1.2WX1.0LD+0.5 FB Acid proof Epoxy lining/painting inside surface of tank						
1180	Primary Clarifier	8PC02111		RCC Tanks	RCC Tanks		RCC M30	m	6.2 Dia.X3SWD+0.5 FB + Hopper Bottom @ 1:10 m						
1181	Filter Feed tank	8FFT02112		RCC Tanks	RCC Tanks		RCC M30	m	2.6LX6.0WX4LD+0.5 FB						
1182	UF Feed Tank	8UFFT02113		RCC Tanks	RCC Tanks		RCC M30	m	4.2LX6.0WX4LD+0.5 FB						
1183	RO Feed Tank	8ROFT02114		RCC Tanks	RCC Tanks		RCC M30	m	4.1LX6.0WX4LD+0.5 FB						
1184	Intermediate RO Permeate tank	8ROPT02115		RCC Tanks	RCC Tanks		RCC M30	m	2LX3WX4LD+0.5 FB						
1185	RO Rejet/ MVR Feed tank	8RORT02116		RCC Tanks	RCC Tanks		RCC M30	m	5.6LX6.0WX4LD+0.5 FB						
1186	Plant Drain Sump	8PDS02119		RCC Tanks	RCC Tanks		RCC M30	m	2.0LX2.7WX2.5LD+1.0 FB						
1187	Stilling Chamber-A1	8SC01201		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX0.4WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1188	Manual Bar Screen Chamber-A1	8MBSC01202A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.3LX0.5WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1189	Oil & Grease Chamber-A1	8O&G01203		RCC Tanks	RCC Tanks		RCC M30	m	3.5LX1.2WX1.05LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1190	Equalization Tank-A1	8EQT01204		RCC Tanks	RCC Tanks		RCC M30	m	5.6LX4.5WX4.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1191	Stilling Chamber-A2	8SC01207		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX0.3WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1192	Manual Bar Screen Chamber-A2	8MBSC01208A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.3LX0.5WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1193	Oil & Grease Chamber-A2	8O&G01209		RCC Tanks	RCC Tanks		RCC M30	m	3.40LX1.2WX0.75LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1194	Equalization Tank-A2	8EQT01210		RCC Tanks	RCC Tanks		RCC M30	m	4.0LX1.9WX4.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1195	Guard Tank	8GT01211		RCC Tanks	RCC Tanks		RCC M30	m	4.0 LX 4.0 WX3.5LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						



**AARTI  
INDUSTRIES  
LIMITED**

**Good Conditioned Equipment Required in Aarti Industries Ltd**

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To submit your offer, kindly connect with **Mr. Srikanth Yadav** at [srikanth.yadav@aarti-industries.com](mailto:srikanth.yadav@aarti-industries.com)

Sr. No.	Equipment Name	TagNo	Type	Category	Sub-Category	Quantity	MOC of Equipment	UOM	Capacity	Pressure	Temp.	Service	Equipment Weight Tons	Pump / Blower Motor Power KW	Total Power KW
1196	Stilling Chamber-B	8SC01212		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX0.5WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1197	Manual Bar Screen Chamber-B	8MBSC01213A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.3LX0.5WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1198	Oil & Grease Chamber-B	8O&G01214		RCC Tanks	RCC Tanks		RCC M30	m	3.4LX1.2WX0.95LD+0.5FB Acid proof Epoxy lining/ painting inside surface of tank						
1199	Equalization Tank-B	8EQT01215		RCC Tanks	RCC Tanks		RCC M30	m	5.0LX5.6WX4.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1200	Flash Mixer Tank-B	8FMT01216		RCC Tanks	RCC Tanks		RCC M30	m	1.0LX0.5WX0.5LD+0.5 FB						
1201	Flocculator Tank-B	8FT01217		RCC Tanks	RCC Tanks		RCC M30	m	1.0LX1.0WX0.8LD+0.5 FB						
1202	Primary Clarifier Tank-B	8PCT01218		RCC Tanks	RCC Tanks		RCC M30	m	2.0DiaX3.0LD+0.5 FB						
1203	MVR Feed Tank	8MFT01219		RCC Tanks	RCC Tanks		RCC M30	m	7.0LX8.0WX4.0LD+0.5 FB Closed Tank						
1204	MVR Drain Tank	8MDT01220		RCC Tanks	RCC Tanks		RCC M30	m	2.0LX3.10WX1.50LD+0.5 FB						
1205	Stilling Chamber-C	8SC01221		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX0.8WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1206	Manual Bar Screen Chamber-C	8MBSC01222A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.3LX0.5WX0.25LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1207	Oil & Grease Chamber-C	8O&G01223		RCC Tanks	RCC Tanks		RCC M30	m	3.5LX1.2WX1.05LD+0.4 FB Acid proof Epoxy lining/ painting inside surface of tank						
1208	Equalization Tank-C	8EQT01224		RCC Tanks	RCC Tanks		RCC M30	m	4.0LX9.0WX4.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1209	Lime Dosing Tank	8DT02125A/B		RCC Tanks	RCC Tanks		RCC M30	m	2.4 LX1.2WX1.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1210	Alum Dosing Tank	8DT02126A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX1.2WX1.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1211	Polyelectrolyte Dosing Tank	8DT02127A/B		RCC Tanks	RCC Tanks		RCC M30	m	1.2LX1.2WX1.0LD+0.5 FB Acid proof Epoxy lining/ painting inside surface of tank						
1212	Flash Mixer Tank-C	8FMT01228		RCC Tanks	RCC Tanks		RCC M30	m	1.3LX0.5WX0.7LD+0.5 FB						
1213	Flocculator Tank-C	8FT01229		RCC Tanks	RCC Tanks		RCC M30	m	2.2LX2.2WX1.0LD+0.5 FB						
1214	Primary Clarifier Tank-C	8PCT01230		RCC Tanks	RCC Tanks		RCC M30	m	2.9 DiaX3.0LD+0.5 FB						



