

- تم معاينة الخزانات عدد 17 و تبين ان خزانات خمسة خزانات ارقام T-4111 وT-4112 وT-4113 و T-4114 و- T-4115 فارغة ولا يوجد بهم منج خليط الجلايكول كما كانت في المعاينة بتاريخ 2020/12/16.
- تم معاينة وجرد قائمة المعدات الرئيسية وتبين وجودها كما بالمرفق رقم 1.
- تم معاينة وجرد قائمة المضخات وتبين وجودها كما بالمرفق رقم 2.
- تم معاينة وجرد لعينات عشوائية من المرفق رقم 3 و 4 و 5 وتبين وجودها.

المرفق رقم 1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
(A)	DEMETAL STEP					
1	K-1101	DEMETAL KETTLE-1	1	40.208	50.26	4 X 4
2	RB-1101	REBOILER FOR K-1101	1			
3	PK-1101A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-1	2	86m3/hrX16ml c		
4	MIX-1101A/B	STATIC MIXERS FOR K-1101	2			
5	K-1102	DEMETAL KETTLE-2	1	40.208	50.26	4 X 4
6	RB-1102	REBOILER FOR K-1102	1			
7	PK-1102A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-2	2	86m3/hrX16ml c		
8	MIX-1102A/B	STATIC MIXERS FOR K-1102	2			
9	K-1103	DEMETAL KETTLE-3	1	40.208	50.26	4 X 4
10	RB-1103	REBOILER FOR K-1103	1			
11	PK-1103A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-3	2	86m3/hrX16ml c		
12	MIX-1103A/B	STATIC MIXERS FOR K-1103	2			
13	K-1104	DEMETAL KETTLE-4	1	40.208	50.26	4 X 4
14	RB-1104	REBOILER FOR K-1104	1			
15	PK-1104A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-4	2	86m3/hrX16ml c		
16	MIX-1104A/B	STATIC MIXERS FOR K-1104	2			
17	R-1101 / 02	DEMETAL SOLUTION RECEIVER-1 & 2	2	19.68	24.6	2.8X4
18	MIX-1105A/B	STATIC MIXERS FOR R-1101/02	2			
19	PR-1101A/B	COMMON TRANSFER PUMPS FOR DAP SOLUTION RECEIVERS 1 & 2	2	90m3/hrX40ml c		
(B)	DEHYDRATION					
20	K-1201	DEHYDRATION KETTLE-1	1	78.4	98	5 X 5
21	RB-1201	REBOILER FOR K-1201	1			
22	HE-1201A	CONDENSER FOR K-1201	1			
23	HE-1201B	AFTER COOLER FOR K-1201	1			
24	MF-1201A/B	MICRON FILTERS FOR K-1201	2			
25	PK-1201A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-1	2	90m3/hrX40ml c		
26	EJ-1201(301A)	EJECTOR SYSTEM FOR DEHYDRATION -1				
27	K-1202	DEHYDRATION KETTLE-2	1	78.4	98	5 X 5
28	RB-1202	REBOILER FOR K-1202	1			
29	HE-1202A	CONDENSER FOR K-1202	1			
30	HE-1202B	AFTER COOLER FOR K-1202	1			
31	MF-1202A/B	MICRON FILTERS FOR K-1202	2			
32	PK-1202A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-2	2	90m3/hrX40ml c		
33	EJ-1202(301B)	EJECTOR SYSTEM FOR DEHYDRATION -2				
34	K-1203	DEHYDRATION KETTLE-3	1	78.4	98	5 X 5
35	RB-1203	REBOILER FOR K-1203	1			
36	HE-1203A	CONDENSER FOR K-1203	1			
37	HE-1203B	AFTER COOLER FOR K-1203	1			
38	MF-1203A/B	MICRON FILTERS FOR K-1203	2			
39	PK-1203A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-3	2	90m3/hrX40ml c		
40	EJ-1203(301C)	EJECTOR SYSTEM FOR DEHYDRATION -3				
41	K-1204	DEHYDRATION KETTLE-4	1	78.4	98	5 X 5
42	RB-1204	REBOILER FOR K-1204	1			
43	HE-1204A	CONDENSER FOR K-1204	1			
44	HE-1204B	AFTER COOLER FOR K-1204	1			
45	MF-1204A/B	MICRON FILTERS FOR K-1204	2			
46	PK-1204A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-4	2	90m3/hrX40ml c		
47	EJ-1204(301D)	EJECTOR SYSTEM FOR DEHYDRATION -4				
48	ST-1201/02/03/04/05/06/07/08/09/10/11/12	DEHYDRATION SETTLING TANKS	12	33.928	42.41	3X6
49	PST-1201A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR UPPER LAYER (OIL)	2	50m3/hr x 50 mlc		
50	PST-1202A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR BOTTOM LAYER (RESIDUE) FOR ST-1201/02/03/04	2	15m3/hr x 50 mlc		
51	PST-1203A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR BOTTOM LAYER (RESIDUE) FOR ST-1205/06/07/08	2	15m3/hr x XX mlc		
52	PST-1204A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR BOTTOM LAYER (RESIDUE) FOR ST-1209/10/11/12	2	15m3/hr x XX mlc		
53	ST-1213	DEHYDRATION RESIDUE COLLECTION RECEIVER AFTER SETTLING	1	6.24	7.8	2x2.5
54	PST-1205A/B	TRANSFER PUMPS FOR DEHYDRATION SETTLING TANK (RESIDUE) FOR ST-1213	2	15m3/hr x 5 mlc		
54	R-1201/02	DEHYDRATED WATER RECEIVERS-1,2,3,4,5	2	17.36	21.7	2.4X4.8
55	R-1203/04	DEHYDRATED WATER RECEIVERS-1,2,3,4,5	2	30.4	38	2.4X8.4

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
56	PR-1201A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION RECEIVERS R-1201/02/03/04	2	30m3/hr		
57	R-1205/06	DEHYDRATION FEED RECEIVER-5&6	2	17	21.2	3X3
58	PR-1205A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION FEED RECEIVERS R-1205/06	2	90m3/hrX40mlc		
	MIX-1205/06	STATIC MIXER FOR R-1205/06	2			
59	R-1207/08	DISTILLATION 1&2 FEED RECEIVER (DEHYDRATED OIL) STORAGE	2	60.5	75.6	3X10.7
60	PR-1203A/B	COMMON TRANSFER PUMPS FOR DISTILAATION 1&2 FEED RECEIVERS, R-1207/08	2	50m3/hr x XX mlc		
(C)		DISTILLATION				
61	K-1301	KETTLE FOR DISTILLATION-1	1	203.2	254	6X9
62	RB-1301A/B	REBOILERS FOR K-1301	2			
63	HE-1301A/B	CONDENSERS FOR K-1301	2			
64	HE-1301C/D	AFTER COOLERS FOR K-1301	2			
65	PK-1301A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-1 KETTLE K-1301	2	200m3/hrX20 mlc		
66	MF-1301A/B	MICRON FILTERS FOR K-1301	2			
	EJ-1301	EJECTOR SYSTEM FOR DISTILLATION-1	1			
	CP-1301	VACUUM CATCH POT FOR DISTILLATION-1	1	1.9	2.3	1X3
67	K-1302	KETTLE FOR DISTILLATION-2	1	203.2	254	6X9
68	RB-1302A/B	REBOILERS FOR K-1302	2			
69	HE-1302A/B	CONDENSERS FOR K-1302	2			
70	HE-1302C/D	AFTER COOLERS FOR K-1302	2			
71	PK-1302A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-2 KETTLE K-1302	2	200m3/hrX20 mlc		
72	MF-1302A/B	MICRON FILTERS FOR K-1302	2			
	CP-1302	VACUUM CATCH POT FOR DISTILLATION-2	1	1.9	2.3	1X3
	EJ-1302	EJECTOR SYSTEM FOR DISTILLATION-2	1			
73	K-1303	KETTLE FOR DISTILLATION-3	1	203.2	254	6X9
74	RB-1303	REBOILERS FOR K-1303	1			
75	HE-1303A	PRIMARY CONDENSER FOR K-1303	1			
76	HE-1303B	SECONDARY CONDENSER FOR K-1303	1			
77	HE-1303C/D	PRODUCT COOLER FOR K-1303	2			
78	PK-1303A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-3 KETTLE K-1303	2	200m3/hrX20 mlc		
79	MF-1303A/B	MICRON FILTERS FOR K-1303	2			
80	R-1318	PRODUCT RECEIVER FOR DISTILLATION-3	1	31.4	39.26	2.5X8
80	CL-1301	COLUMN FOR DISTILLATION-3	1			
81	EJ-1303	EJECTOR SYSTEM FOR DISTILLATION-3	1			
81	K-1304	KETTLE FOR DISTILLATION-4	1	203.2	254	6X9
82	RB-1304	REBOILERS FOR K-1304	1			
83	HE-1304A	PRIMARY CONDENSER FOR K-1304	1			
84	HE-1304B	SECONDARY CONDENSER FOR K-1304	1			
85	HE-1304C/D	PRODUCT COOLER FOR K-1304	2			
86	PK-1304A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-3 KETTLE K-1304	2	200m3/hrX20 mlc		
87	MF-1304A/B	MICRON FILTERS FOR K-1304	2			
88	R-1319	PRODUCT RECEIVER FOR DISTILLATION-4	1			
88	CL-1302	COLUMN FOR DISTILLATION-4	1			
89	EJ-1304	EJECTOR SYSTEM FOR DISTILLATION-4	1			
89	R-1301	BLACK DIESEL RECEIVER FOR DISTILLATION-1	1	16.688	20.86	2.5X4.25
90	R-1302	BLACK DIESEL RECEIVER FOR DISTILLATION-2	1	16.688	20.86	2.5X4.25
91	PR-1301A/B	COMMON TRANSFER PUMPS FOR BLACK DIESEL RECEIVER R-1301/02	2	90m3/hrX40mlc		
92	R-1303	MIX CUT RECEIVER FOR DISTILLATION-1	1	12.56	15.7	2X5
93	R-1304	MIX CUT RECEIVER FOR DISTILLATION-2	1	12.56	15.7	2X5
94	PR-1302A/B	COMMON TRANSFER PUMPS FOR MIX CUT RECEIVER R-1303/04	2	90m3/hrX40mlc		
95	R-1305	HV CUT RECEIVER-1 FOR DISTILLATION-1&2	1	32.984	41.23	2.5X8.4
96	R-1306	HV CUT RECEIVER-2 FOR DISTILLATION-1&2	1	32.984	41.23	2.5X8.4
97	PR-1303A/B	COMMON TRANSFER PUMPS FOR HV CUT RECEIVER R-1305/06	2	90m3/hrX40mlc		
98	R-1307	RESIDUE RECEIVER FOR DISTILLATION 1 & 2	1	53.6	67	2.94X9.87
99	PR-1304A/B	TRANSFER PUMPS FOR DISTILLATION 1 & 2 RESIDUE RECEIVER R-1307	2	90m3/hrX40mlc		
100	R-1308/09/10/11	LV RECEIVERS FOR DISTILLATION-1&2	4	30.4	38	2.4X8.4
101	PR-1305A/B	COMMON TRANSFER PUMPS FOR LV RECEIVERS R-1308/09/10/11	2	90m3/hrX40mlc		
102	R-1312/13	RECEIVERS FOR DISTILLATION 3 & 4	2	31.36	39.2	2.5X8
103	PR-1306A/B	COMMON TRANSFER PUMPS FOR RECEIVERS R-1312/13	2	90m3/hrX15mlc		
104	R-1314/15	RECEIVERS FOR DISTILLATION 3 & 4	2	60.5	75.6	3X10.7
105	PR-1307A/B	COMMON TRANSFER PUMPS FOR RECEIVERS R-1314/15	2	90m3/hrX15mlc		
106	R-1316/17	MIX OIL STORAGE FOR DISTILLATION-1 & 2 RECEIVER R-1303, R-1304	2	60.5	75.6	3X10.7
107	PR-1308A/B	COMMON TRANSFER PUMPS FOR RECEIVERS R-1316/17	2	90m3/hr x 40mlc		

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
(D)		EXTRACTION				
108	K-1401	EXTRACTION KETTLE-1	1	30.8	38.5	3.5X4
109	RB-1401	REBOILER FOR K-1401	1			
110	MIX-1401A/B/C/D	STATIC MIXER FOR K-1401	4			
111	PK-1401A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-1	2	90m3/hrX15ml c		
112	K-1402	EXTRACTION KETTLE-2	1	30.8	38.5	3.5X4
113	RB-1402	REBOILER FOR K-1402	1			
114	MIX-1402A/B/C/D	STATIC MIXER FOR K-1402	4			
115	PK-1402A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-2	2	90m3/hrX15ml c		
116	K-1403	EXTRACTION KETTLE-3	1	30.8	38.5	3.5X4
117	RB-1403	REBOILER FOR K-1403	1			
118	MIX-1403A/B/C/D	STATIC MIXER FOR K-1403	4			
119	PK-1403A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-3	2	90m3/hrX15ml c		
120	K-1404	EXTRACTION KETTLE-4	1	30.8	38.5	3.5X4
121	RB-1404	REBOILER FOR K-1404	1			
122	MIX-1404A/B/C/D	STATIC MIXER FOR K-1404	4			

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
123	PK-1404A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-4	2	90m3/hrX15ml c		
124	K-1405	EXTRACTION KETTLE-5	1	30.8	38.5	3.5X4
125	RB-1405	REBOILER FOR K-1405	1			
126	PK-1405A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-5	2	90m3/hrX15ml c		
127	MIX-1405A/B/C/D	STATIC MIXER FOR K-1405	4			
128	K-1406	EXTRACTION KETTLE-6	1	30.8	38.5	3.5X4
129	RB-1406	REBOILER FOR K-1406	1			
130	PK-1406A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-6	2	90m3/hrX15ml c		
131	MIX-1406A/B/C/D	STATIC MIXER FOR K-1406	4			
132	K-1407	EXTRACTION KETTLE-7	1	30.8	38.5	3.5X4
133	RB-1407	REBOILER FOR K-1407	1			
134	MIX-1407A/B/C/D	STATIC MIXER FOR K-1407	4			
135	PK-1407A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-7	2	90m3/hrX15ml c		
136	K-1408	EXTRACTION KETTLE-8	1	30.8	38.5	3.5X4
137	RB-1408	REBOILER FOR K-1408	1			
138	MIX-1408A/B/C/D	STATIC MIXER FOR K-1408	4			
139	PK-1408A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-8	2	90m3/hrX15ml c		
140	K-1409	EXTRACTION KETTLE-9	1	30.8	38.5	3.5X4
141	RB-1409	REBOILER FOR K-1409	1			
142	MIX-1409A/B/C/D	STATIC MIXER FOR K-1409	4			
143	PK-1409A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-9	2	90m3/hrX15ml c		
144	ST- 1401/02/03/04/05/06/07/08/09	EXTRACTION GROUP-1 SETTLING TANKS FOR KETTLES K-1402/03/04	9	33.928	42.41	3X6
145	PST-1401A/B	COMMON TRANSFER PUMPS FOR GROUP-1 SETTLING TANKS ST-1401/02/03/04/05/06/07/08/09	2	50m3/hr x XXmlc		
146	ST- 1410/11/12/13/14/15/16/17/18	EXTRACTION GROUP-2 SETTLING TANKS FOR KETTLES K-1401/02/03	9	33.928	42.41	3X6
147	PST-1402A/B	COMMON TRANSFER PUMPS FOR GROUP-2 SETTLING TANKS ST-1410/11/12/13/14/15/16/17/18	2	50m3/hr x XXmlc		
148	ST- 1419/20/21/22/23/24/25/26/27 /28	EXTRACTION GROUP-3 SETTLING TANKS FOR KETTLES K-1407/1408/1409	10	33.928	42.41	3X6
149	PST-1403A/B	COMMON TRANSFER PUMPS FOR GROUP-3 SETTLING TANKS ST-1419/20/21/22/23/24/25/26/27/28	2	50m3/hr x XXmlc		
150	R-1401	EXTRACTION GROUP-1 SOLVENT CHARGING RECEIVER FOR K-1401/02/03	1	30	37.5	2.4X8.3
151	PR-1401A/B	TRANSFER PUMPD FOR GROUP-1 RECEIVER, R-1401	2	30m3/hr x XXmlc		
152	R-1402	EXTRACTION GROUP-2 SOLVENT CHARGING RECEIVER FOR K-1404/05/06	1	30	37.5	2.4X8.3
153	PR-1402A/B	TRANSFER PUMPD FOR GROUP-2 RECEIVER, R-1402	2	30m3/hr x XXmlc		
154	R-1403	EXTRACTION GROUP-3 SOLVENT CHARGING RECEIVER FOR K-1407/08/09	1	30	37.5	2.4X8.3
155	PR-1403A/B	FEED PUMPS FOR GROUP-3 RECEIVER,R-1403	2	30m3/hr x XXmlc		
156	R-1404/05	FEED CHARGING FOR EXTRACTION GROUP-2 RECEIVERS K-1404/05/06	2	67.84	84.8	3X12
157	PR-1404A/B	COMMON TRANSFER PUMPS FOR GROUP-2 RECEIVERS, R-1404/05	2	90m3/hr x 40mlc		
158	R-1406/07	FEED CHARGING FOR EXTRACTION GROUP-3 RECEIVERS K-1407/08/09	2	67.84	84.8	3X12
159	PR-1405A/B	COMMON TRANSFER PUMPS FOR GROUP-3 RECEIVERS, R-1406/07	2	90m3/hr x 40mlc		
(E)		CRACKING				
160	K-1501	CRACKER KETTLE-1	1	44.24	55.3	4X4.4
161	RB-1501	REBOILER FOR K-1501	1			
162	HE-1501A	PRIMARY CONDENSER FOR K-1501	1			
163	HE-1501B	AFTER COOLER FOR K-1501	1			
164	PK-1501A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR CRACKER KETTLE-1	2	80m3/hr x 40mlc		
165	MF-1501A/B	MICRON FILTERS FOR K-1501	2			
166	CP-1501	VACUUM CATCH POT FOR CRACKING-1	1			
167	EJ-701A	EJECTOR SYSTEM FOR CRACKING-1	1			
168	K-1502	CRACKER KETTLE-2	1	44.24	55.3	4X4.4
169	RB-1502	REBOILER FOR K-1502	1			
170	HE-1502A	PRIMARY CONDENSER FOR K-1502	1			
171	HE-1502B	AFTER COOLER FOR K-1502	1			

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
172	PK-1502A/B	REBOILER CIRCULATION & TRANSFER PUMPS FOR CRACKER KETTLE-2	2	80m3/hr x 40mlc		
173	MF-1502A/B	MICRON FILTERS FOR K-1502	2			
174	CP-1502	VACUUM CATCH POT FOR CRACKING-2	1			
175	EJ-701B	EJECTOR SYSTEM FOR CRACKING-2	1			
176	K-1503	CRACKER KETTLE-3	1	44.24	55.3	4X4.4
177	RB-1503	REBOILER FOR K-1503	1			
178	HE-1503A	PRIMARY CONDENSER FOR K-1503	1			
179	HE-1503B	AFTER COOLER FOR K-1503	1			
180	PK-1503A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR CRACKER KETTLE-3	2	80m3/hr x 40mlc		
181	MF-1503A/B	MICRON FILTERS FOR K-1503	2			
182	CP-1503	VACUUM CATCH POT FOR CRACKING-3	1			
183	EJ-701C	EJECTOR SYSTEM FOR CRACKING-3	1			
184	K-1504	CRACKER KETTLE-4	1	44.24	55.3	4X4.4
185	RB-1504	REBOILER FOR K-1503	1			
186	HE-1504A	PRIMARY CONDENSER FOR K-1503	1			
187	HE-1504B	AFTER COOLER FOR K-1503	1			
188	PK-1504A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR CRACKER KETTLE-4	2	80m3/hr x 40mlc		
189	MF-1504A/B	MICRON FILTERS FOR K-1504	2			
190	CP-1504	VACUUM CATCH POT FOR CRACKING-4	1			
191	EJ-701D	EJECTOR SYSTEM FOR CRACKING-4	1			
192	R-1501	RESIDUE RECEIVER FOR CRACKER-1 & 2	1	14.192	17.74	2.13X4.98

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size
				Working	Actual	
193	R-1502	RESIDUE RECEIVER FOR CRACKER-3 & 4	1	14.192	17.74	m (Dia X Ht)
194	PR-1501A/B	COMMON TRANSFER PUMPS FOR RESIDUE RECEIVER R-1501/02	2			
195	R-1503/04	RECOVERED SOLVENT TRANSIT RECEIVERS	2	60.5	75.6	3X10.7
196	PR-1502A/B	COMMON TRANSFER PUMPS FOR RECOVERED SOLVENT RECEIVER R-1503/04 TO DT-1706	2	200m3/hr x 30mlc		
197	R-1505/06	CRACKER FEED RECEIVER (AFTER SETTLING)	2	60.5	75.6	3X10.7
198	PR-1503A/B	COMMON TRANSFER PUMPS FOR CRACKER CHARGE RECEIVERS R-1505/06	2	200m3/hr x 30mlc		
199	R-1507/08/09/10	RECOVERED SOLVENT RECEIVER AFTER CRACKING	4	60.5	75.6	3X10.7
200	PR-1504A/B	COMMON TRANSFER PUMPS FOR CRACKER RECOVERED SOLVENT RECEIVER R-1507/08/09/10	2	200m3/hr x 30mlc		
201	ST-1501/02	CRACKER RESIDUE SETTLING TANKS FROM R-1501/02	2	33.928	42.41	3X6
202	PST-1501A/B	COMMON TRANSFER PUMPS FOR RESIDUE SETTLING TANKS ST-1501/02	2			
(F)		STRIPPING				
203	K-1601	STRIPPING KETTLE-1	1	78.536	98.17	5X5
204	RB-1601A/B	REBOILERS FOR K-1601	2			
205	HE-1601A/B	COOLERS FOR K-1602	2			
205	HE-1601C	PRIMARY CONDENSER FOR K-1601	1			
206	HE-1601D	AFTER COOLER FOR K-1601	1			
207	PK-1601A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-1	2	150m3/hrX20 mlc		
208	MIX-1601A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1601	8			
209	CP-1601	VACUUM CATCH POT FOR STRIPPING-1	1			
210	EJ-501A	EJECTOR SYSTEM FOR STRIPPING-1	1			
209	K-1602	STRIPPING KETTLE-2	1	78.536	98.17	5X5
210	RB-1602A/B	REBOILERS FOR K-1602	2			
211	HE-1602A/B	COOLERS FOR K-1602	2			
211	HE-1602C	PRIMARY CONDENSER FOR K-1602	1			
212	HE-1602D	AFTER COOLER FOR K-1602	1			
213	PK-1602A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-2	2	150m3/hrX20 mlc		
214	MIX-1602A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1602	8			
215	CP-1602	VACUUM CATCH POT FOR STRIPPING-2	1			
216	EJ-501B	EJECTOR SYSTEM FOR STRIPPING-2	1			
215	K-1603	STRIPPING KETTLE-3	1	78.536	98.17	5X5
216	RB-1603A/B	REBOILERS FOR K-1603	2			
217	HE-1603A/B	COOLERS FOR K-1603	2			
217	HE-1603C	PRIMARY CONDENSER FOR K-1603	1			
218	HE-1603D	AFTER COOLER FOR K-1603	1			
219	PK-1603A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-3	2	150m3/hrX20 mlc		
220	MIX-1603A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1603	8			
221	CP-1603	VACUUM CATCH POT FOR STRIPPING-3	1			
222	EJ-501C	EJECTOR SYSTEM FOR STRIPPING-3	1			
221	K-1604	STRIPPING KETTLE-4	1	78.536	98.17	5X5
222	RB-1604A/B	REBOILERS FOR K-1604	2			
223	HE-1604A/B	COOLERS FOR K-1604	2			
223	HE-1604C	PRIMARY CONDENSER FOR K-1604	1			
224	HE-1604D	AFTER COOLER FOR K-1604	1			
225	PK-1604A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-4	2	150m3/hrX20 mlc		
226	MIX-1604A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1604	8			
227	CP-1604	VACUUM CATCH POT FOR STRIPPING-4	1			
228	EJ-501D	EJECTOR SYSTEM FOR STRIPPING-4	1			
227	R-1601/02	CONTAMINATED SOLVENT RECEIVER-1,2,3&4 AFTER STRIPPING	2	10.048	12.56	2X4
228	R-1603/04	CONTAMINATED SOLVENT RECEIVER-1,2,3&4 AFTER STRIPPING	2	10.048	12.56	2X4
229	PR-1601A/B	COMMON TRANSFER PUMPS FOR STRIPPING SOLVENT RECEIVER R-1601/02/03/04	2	200m3/hr x 30mlc		
230	R-1605/06	CONTAMINATED WATER RECEIVER-5,6,7&8 AFTER STRIPPING	2	10.048	12.56	2X4
231	R-1607/08	CONTAMINATED WATER RECEIVER-5,6,7&8 AFTER STRIPPING	2	7.536	9.42	2X3
232	PR-1602A/B	COMMON TRANSFER PUMPS FOR STRIPPING WATER RECEIVER R-1605/06//07/08	2	100m3/hr x 30mlc		
233	R-1609	CONTAMINATED AROMATICS RECEIVER AFTER STRIPPING	1	10.056	12.57	2X4
234	PR-1603A/B	TRANSFER PUMPS FOR STRIPPING AROMATIC RECEIVER R-1609	2	15m3/hr x XX mlc		
235	R-1610	COMMON FEED CHARGING RECEIVER FOR STRIPPING KETTLES K-1601/02/03/04	1	60.48	75.6	3X10.7
236	PR-1604A/B	TRANSFER PUMPS FOR CHARGE RECEIVERS R-1610	2			
236	R-1611	COMMON CHARGE RECEIVER FOR STRIPPING KETTLES K-1601/02/03/04	1	60.48	75.6	3X10.7
237	PR-1605A/B	TRANSFER PUMPS FOR CHARGE RECEIVERS R-1611	2			

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
238	R-1612/13	FINAL PRODUCT RECEIVER FROM STRIPPING KETTLES K-1601/02/03/04	2	60.48	75.6	3X10.7
239	PR-1606A/B	COMMON TRANSFER PUMPS FOR DISCHARGE RECEIVERS R-1612/13	2			
(G) DAY TANKS						
240	DT-1701	RESIDUE DAY TANK	1	271.36	339.2	6X12
241	PDT-1701A/B	TRANSFER PUMPS FOR RESIDUE DAY TANK	2			
242	DT-1702	BLACK DIESEL DAY TANK	1	271.36	339.2	6X12
243	PDT-1702A/B	TRANSFER PUMPS FOR BLACK DIESEL DAY TANK	2	50m ³ /hr x XX mlc		

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size m (Dia X Ht)
				Working	Actual	
244	DT-1703	BLACK OIL DAY TANK (UEO)	1	271.36	339.2	6X12
245	PDT-1703A/B	TRANSFER PUMPS FOR BLACK OIL DAY TANK	2	100m3/hr x 30 mlc		
246	MF-1703A/B	MICRON FILTER FOR BLACK OIL DAY TANK	2			
246	DT-1704	HV DAY TANK	1	271.36	339.2	6X12
247	DT-1705	LV DAY TANK	1	271.36	339.2	6X12
248	PDT-1704A/B	COMMON TRANSFER PUMPS FOR HV, LV DAY TANKS DT-1704/05	2	90m3/hr x 40 mlc		
249	DT-1706	PURE SOLVENT DAY TANK + RECOVERED SOLVENT OTHER CRACKING	1	271.36	339.2	6X12
250	PDT-1705A/B	TRANSFER PUMPS FOR PURE SOLVENT DAY TANK	2	200m3/hr x 30 mlc		
251	DT-1707	CONTAMINATED SOLVENT DAY TANK FOR STRIPPING RECEIVERS	1	271.36	339.2	6X12
252	PDT-1706A/B	TRANSFER PUMPS FOR CONTAMINATED SOLVENT DAY TANK	2	200m3/hr x 30 mlc		
(G)		OTHER RECEIVERS				
253	R-1801/02	RECEIVER -1 & 2 (EMPTY)	2	67.856	84.82	3X12
254	PR-1801A/B	COMMON TRANSFER PUMPS FOR RECEIVER R- 1801/02	2	300m3/hr x XX mlc		
255	R-1803/04/05	RECEIVER-3,4&5 FOR CHILLED BOX -1,2,3	3	67.856	84.82	3X12
256	PR-1802A/B	COMMON TRANSFER PUMPS FOR RECEIVER R-1803	2			
257	R-1806	WATER RECEIVER	1	67.856	84.82	3X12
258	PR-1803A/B	TRANSFER PUMPS FOR RECEIVER R-1806	2			
(H)		UTILITY				
259	B- 1901/02/03/04/05/06/07/08/09 /10/11/12/13/14	BOILER	14			
260	CT-1901A/B	COOLING TOWER -1	2			
261	PCT-1901		1			
262	CT-1902A/B	COOLING TOWER -2	2			
263	PCT-1902		1			
264	CT-1903A/B	COOLING TOWER -3	2			
265	PCT-1903		1			
266	CT-1904A/B	COOLING TOWER -4	2			
267	PCT-1904		1			
268	CT-1905A/B	COOLING TOWER -5	2			
269	PCT-1905		1			
270	CT-1906A/B	COOLING TOWER -6	2			
271	PCT-1906		1			
272	CT-1907A/B	COOLING TOWER -7	2			
273	PCT-1907		1			
274	CWT-1901	COOLING WATER TANK-1	1			
275	PCT-1908		1			
276	CWT-1902	COOLING WATER TANK-2	1			
277	PCT-1909		1			
278	CWT-1903	COOLING WATER TANK-3	1			
279	PCT-1910		1			
280	CH-1901	CHILLER-1	1			
281	CH-1902	CHILLER-2	1			
282	CH-1903	CHILLER-3	1			
283	CH-1904	CHILLER-4	1			
284	CH-1905	CHILLER-5	1			
285	CH-1906	CHILLER-6	1			
286	CH-1907	CHILLER-7	1			
287	CH-1908	CHILLER-8	1			
288	CH-1909	CHILLER-9	1			
289	CH-1910	CHILLER-10	1			
290	CH-1911	CHILLER-11	1			
291	CH-1912	CHILLER-12	1			

PROJECT : MODULE-2

Sr. No.	Equipment No.	Equipment Name	Quantity	Capacity (m3)		Size
				Working	Actual	
(A) G-1 DISTILLATION SYSTEM						
1	K-2101	KETTLE FOR G-1 DISTILLATION SYSTEM	1	104.6	130.7	3 X 18.5
2	CL-2101	DISTILLATION COLUMN FOR G-1 DISTILLATION SYSTEM	1			1.8 X 28.72
3	RB-2101A/B	REBOILER FOR G-1 DISTILLATION SYSTEM	2			0.79 X 6
4	PK-2101A/B	CIRCULATION PUMPS FOR RB-2101A/B	2	200m3/hr		
5	HE-2101A	PRIMARY CONDENSER FOR G-1 DISTILLATION SYSTEM	1	200m2		
6	HE-2101B	SECONDARY CONDENSER FOR G-1 DISTILLATION SYSTEM	1	25m2		0.5 X 20
7	HE-2101C	AFTER COOLER CONDENSER FOR G-1 DISTILLATION SYSTEM	1	10m2		
8	CP-2101A	CATCH POT FOR G-1 DISTILLATION SYSTEM	1	1.9	2.36	1mø X 3ml
9	R-2101	CUT-1 RECEIVER FOR CL-2101	1	30.2	37.8KL	3 X 5.35
10	R-2102	CUT-2 RECEIVER FOR CL-2101	1	30.2	37.8KL	3 X 5.35
11	R-2103	CUT-3 RECEIVER FOR CL-2101	1	30.2	37.8KL	3 X 5.35
12	R-2104	CUT-1 RECEIVER FOR CL-2201	1	30.2	37.8KL	3 X 5.35
13	PR-2101	TRANSFER PUMPS FOR R-2101	1	80m3/hr		
14	PR-2102	TRANSFER PUMPS FOR R-2102	1	80m3/hr		
15	PR-2103	TRANSFER PUMPS FOR R-2103	1	80m3/hr		
16	PR-2104	TRANSFER PUMPS FOR R-2104	1	80m3/hr		
(B) G-2 DISTILLATION SYSTEM						
1	K-2102	KETTLE FOR G-2 DISTILLATION SYSTEM	1	104.6	130.7	3 X 18.5
2	CL-2102	DISTILLATION COLUMN FOR G-2 DISTILLATION SYSTEM	1			1.8 X 28.72
3	RB-2102A/B	REBOILER FOR G-2 DISTILLATION SYSTEM	2			0.79 X 6
4	PK-2102A/B	CIRCULATION PUMPS FOR RB-2102A/B	2	200m3/hr		
5	HE-2102A	PRIMARY CONDENSER FOR G-2 DISTILLATION SYSTEM	1	200m2		
6	HE-2102B	SECONDARY CONDENSER FOR G-2 DISTILLATION SYSTEM	1	25m2		0.5X20
7	HE-2102C	AFTER COOLER CONDENSER FOR G-2 DISTILLATION SYSTEM	1	10m2		
8	CP-2102A	CATCH POT FOR G-2 DISTILLATION SYSTEM	1	1.9	2.36	1mø X 3ml
9	R-2105	CUT-2 RECEIVER FOR CL-2102	1	30.2	37.8	3 X 5.35
10	R-2106	CUT-3 RECEIVER FOR CL-2102	1	30.2	37.8	3 X 5.35
11	PR-2105	TRANSFER PUMPS FOR R-2105	1	80m3/hr		
12	PR-2106	TRANSFER PUMPS FOR R-2106	1	80m3/hr		
(C) G-3 DISTILLATION SYSTEM						
1	K-2201	KETTLE FOR G-3 DISTILLATION SYSTEM	1	104.6	130.7	3 X 18.5
2	CL-2201	DISTILLATION COLUMN FOR G-3 DISTILLATION SYSTEM	1			1.8 X 28.72
3	RB-2201A/B	REBOILER FOR G-3 DISTILLATION SYSTEM	2			0.79 X 6
4	PK-2201A/B	CIRCULATION PUMPS FOR RB-2201A/B	2	200m3/hr		
5	HE-2201A	PRIMARY CONDENSER 1 FOR G-3 DISTILLATION SYSTEM	1	200m2		
6	HE-2201B	SECONDARY CONDENSER 1 FOR G-3 DISTILLATION SYSTEM	1	25m2		0.5 X 20
7	HE-2201C	AFTER COOLER 1 CONDENSER FOR G-3 DISTILLATION SYSTEM	1	10m2		
8	CP-2201A	CATCH POT 1 FOR G-3 DISTILLATION SYSTEM	1	1.9	2.36	1mø X 3ml
9	R-2201	CUT-1 RECEIVER FOR CL-2201	1	30.2	37.8	3 X 5.35
10	R-2202	CUT-2 RECEIVER FOR CL-2201	1	30.2	37.8	3 X 5.35
11	R-2203	CUT-3 RECEIVER FOR CL-2201	1	30.2	37.8	3 X 5.35
12	R-2301	CUT-1RECEIVER FOR CL-2301	1	30.2	37.8	3 X 5.35
13	PR-2201	TRANSFER PUMPS FOR R-2201	1	80m3/hr		
14	PR-2202	TRANSFER PUMPS FOR R-2202	1	80m3/hr		
15	PR-2203	TRANSFER PUMPS FOR R-2203	1	80m3/hr		
16	PR-2301	TRANSFER PUMPS FOR R-2301	1	80m3/hr		
(D) G-3 DISTILLATION SYSTEM						
1	K-2301	KETTLE FOR G-3 DISTILLATION SYSTEM	1	104.6	130.7	3 X 18.5
2	CL-2301	DISTILLATION COLUMN FOR G-3 DISTILLATION SYSTEM	1			1.8 X 28.72
3	RB-2301A/B	REBOILER FOR G-3 DISTILLATION SYSTEM	2			0.79 X 6
4	PK-2301A/B	CIRCULATION PUMPS FOR RB-2301A/B	2	200m3/hr		
5	HE-2301A	PRIMARY CONDENSER FOR G-3 DISTILLATION SYSTEM	1	200m2		

6	HE-2301B	SECONDARY CONDENSER FOR G-3 DISTILLATION SYSTEM	1	25m2		0.5 X 20
7	HE-2301C	AFTER COOLER CONDENSER FOR G-3 DISTILLATION SYSTEM	1	10m2		
8	CP-2301A	CATCH POT FOR G-3 DISTILLATION SYSTEM	1	1.9	2.36	1mø X 3ml
9	R-2302	CUT-2 RECEIVER FOR CL-2301	1	30.2	37.8	3 X 5.35
10	R-2303	CUT-3 RECEIVER FOR CL-2301	1	30.2	37.8	3 X 5.35
11	PR-2302	TRANSFER PUMPS FOR R-2302	1	80m3/hr		
12	PR-2303	TRANSFER PUMPS FOR R-2303	1	80m3/hr		
(E)	G-4 DISTILLATION SYSTEM					
1	K-2401	KETTLE FOR G-4 DISTILLATION SYSTEM	1	104.6	130	3 X 18.5
2	CL-2401	DISTILLATION COLUMN1 FOR 4 DISTILLATION SYSTEM	1			1.8 X 28.72
3	RB-2401A/B	REBOILER 1&2 FOR G-4 DISTILLATION SYSTEM	2			0.79 X 6
4	PK-2401A/B	CIRCULATION PUMPS FOR RB-2401A/B	2	200m3/hr		
5	HE-2401A	PRIMARY CONDENSER 1 FOR G-4 DISTILLATION SYSTEM	1	200m2		
6	HE-2401B	SECONDARY CONDENSER 1 FOR G-4 DISTILLATION SYSTEM	1	25m2		0.5 X 20
7	CP-2401A	CATCH POT 1 FOR G-4 DISTILLATION SYSTEM	1	1.9	2.36	1mø X 3ml
7	R-2401	CUT-1RECEIVER FOR CL-2401	1	30.2	37.8	3 X 5.35
8	R-2402	CUT-2RECEIVER FOR CL-2401	1	30.2	37.8	3 X 5.35
8	R-2403	CUT-3 RECEIVER FOR CL-2401	1	30.2	37.8	3 X 5.35
9	R-2501	CUT-1RECEIVER FOR CL-2501	1	30.2	37.8	3 X 5.35
9	PR-2401	TRANSFER PUMPS FOR R-2401	1	80m3/hr		
10	PR-2402	TRANSFER PUMPS FOR R-2402	1	80m3/hr		
10	PR-2403	TRANSFER PUMPS FOR R-2403	1	80m3/hr		
11	PR-2501	TRANSFER PUMPS FOR R-2501	1	100m3/hr		
(F)	G-4 DISTILLATION SYSTEM					
1	K-2501	KETTLE 2 FOR G-4 DISTILLATION SYSTEM	1	104.6	130.7	3 X 18.5
2	CL-2501	DISTILLATION COLUMN 2 FOR G-4 DISTILLATION SYSTEM	1			1.8 X 28.72
3	RB-2501A/B	REBOILER 3&4 FOR G-4 DISTILLATION SYSTEM	2			0.79 X 6
4	PK-2501A/B	CIRCULATION PUMPS FOR RB-2501A/B	2	200m3/hr		
5	HE-2501A	PRIMARY CONDENSER 2 FOR G-4 DISTILLATION SYSTEM	1	200m2		
6	HE-2501B	SECONDARY CONDENSER 2 FOR G-4 DISTILLATION SYSTEM	1	25m2		0.5 X 20
7	HE-2501C	AFTER COOLER CONDENSER 2 FOR G-4 DISTILLATION SYSTEM	1	10m2		
8	CP-2501A	CATCH POT FOR G-4 DISTILLATION SYSTEM	1	1.9	2.36	1mø X 3ml
9	R-2502	CUT-2 RECEIVER FOR CL-2501	1	30.2	37.8	3 X 5.35
10	R-2503	CUT-3 RECEIVER FOR CL-2501	1	30.2	37.8	3 X 5.35
11	PR-2502	TRANSFER PUMPS FOR R-2502	1	100m3/hr		
12	PR-2503	TRANSFER PUMPS FOR R-2503	1	100m3/hr		
(G)	G1/2/3/4 DISTILLATION SYSTEM					
1	DT-2102	SOLFOLANE + AROMATICS FOR G-3 & G-4 DIST. SYSTEM	1	271.4m3	340m3	6 X 12
2	DT-2103	PY GAS FOR G-3 DIST, G-4 & LLE-2601 SYSTEM	1	271.4m4	340m3	6 X 12
3	DT-2104	BTX FOR G-3 & G-4 DIST.SYSTEM & LLE -2601	1	271.4m5	340m3	6 X 12
4	PDT-2102	TR. PUMPS FOR DT-2102	1	100m3/hr		
5	PDT-2103	TR. PUMPS FOR DT-2103	1	100m3/hr		
6	PDT-2104	TR. PUMPS FOR DT-2104	1	100m3/hr		
7	T-4117	STORAGE TANK FOR SULFOLANE	1	2463m3	3078.76m3	14 X 20
8	PT-4117	TR. PUMPS FOR DT-4117	1	200m3/hr		
(H)	WFE SYSTEM 1					
1	WFE-2501	WIPPED FILM EVAPORATOR COLUMN-1	1			
2	WR-2503	TOP PRODUCT RECEIVER FOR WFE-2501	1			
3	WR-2504	BOTTOM PRODUCT RECEIVER FOR WFE-2501	1			
4	PWR-2503	TRANSFER PUMP FOR TOP PRODUCT RECEIVER WR-2503	1	30m3/hr		
5	PWR-2504	TRANSFER PUMP FOR BOTTOM PRODUCT RECEIVER WR-2504	1	30m3/hr		
#REF!	WFE SYSTEM 2					
(L)	LLE SYSTEM					
1	LLE-2601/02/03/04	LIQUID-LIQUID EXTRACTION COLUMN-1.2.3	4			
2	SEP-2601A/02A/03A/04A	TOP SEPARATORS FOR LLE-2601/02/03/04	4	1.9m3	2.3m3	1X3

3	SEP-2601B/02B/03B/04B	BOTTOM SEPARATORS FOR LLE-2601/02/03/04	4	1.9m3	2.3m3	1X3
4	R-2601	SOL+FEED RECEIVER FOR LLE-2601	1	30.5	38.1	3X5.4
5	R-2602	SOL+FEED RECEIVER FOR LLE-2602	1	30.5	38.1	3X5.4
6	R-2603	SOL+FEED RECEIVER FOR LLE-2602	1	15.8	19.8	3X2.8
7	R-2604	NON AROMATICS+IMPURITIES RECEIVER FOR LLE-2601/02/03/04	1	15.8	19.8	3X2.8
8	R-2606	SOL+FEED RECEIVER FOR LLE-2602	1	14.1	17.6	3X2.5
9	R-2605	NON AROMATICS+IMPURITIES RECEIVER FOR LLE-2601/02/03/04	1	14.1	17.6	3X2.5
10	PR-2601	TR PUMPS FOR R-2601	1	30m3/hr		
11	PR-2602	TR PUMPS FOR R-2602	1	30m3/hr		
12	PR-2603	TR PUMPS FOR R-2603	1	200m3/hr		
13	PR-2604	TR PUMPS FOR R-2604	1	30m3/hr		
14	PR-2606	TR PUMPS FOR R-2606	1	200m3/hr		
(M)	G-1/2/3/4 DISTILLATION SYSTEMS					
1	DT-2106	GLYCOL FEED TANK	1	272m3	340m3	6 x 12
2	PDT-2106	TR. PUMPS FOR DT-2103	1	100m3/hr		
3	T-4116	ETHANOL FEED TANK	1	482.5m3/hr	603m3	8X12
4	PT-4116	TR. PUMPS FOR T-4116	1	200m3/hr		
5	DT-2105	ETHYLACETATE FEED TANK	1	272m3	340m3	6 x 12
6	PDT-2105	TR. PUMPS FOR DT-2104	1	100m3/hr		
7	DT-2101	PRODUCT FROM DISTILLATION-3/4	1	272m3	340m3	6 x 12
8	PDT-2101	TR. PUMPS FOR DT-2101	1	100m3/hr		
(N)	GLYCOL / EA BLENDING					
1	K-2103/04/05	G-1/2 BLENDING KETTLE	3	30	38	3.5 X 4
2	RB-2103/04/05	REBOILERS FOR RB-2103/04/05	3			
3	PK-2103A/B	TR PUMPS FOR K-2103	2	80m3/hr		
4	PK-2104A/B	TR PUMPS FOR K-2104	2	80m3/hr		
5	PK-2105A/B	TR PUMPS FOR K-2105	2	80m3/hr		
6	MIX-2103A/B/C/D	STATIC MIXER FOR K-2103	4			
7	MIX-2104A/B/C/D	STATIC MIXER FOR K-2104	4			
8	MIX-2105A/B/C/D	STATIC MIXER FOR K-2105	4			
(O)	TANKS FOR GLYCOL TREATMENT					
1	ST-2101/02	SETTLING TANKS	2	50.8	63.5	3 X 9
2	PST-2101A/B	RESIDUE TR PUMPS FOR ST-2101/02	2	15m3/hr		
(P)	DECANTER & LIQ-LIQ-SOLID SEPARATORS					
1	ST-2103	PRODUCT RECEIVER FOR CF-2101A/B	1	50.8	63.5	3 X 9
2	PST-2103	TR. PUMPS FOR ST-2103	1	30m3/hr		
3	ST-2104	RESIDUE RECEIVER FOR CF-2101A/B	1	50.8	63.5	3 X 9
4	PST-2104	TR PUMPS FOR ST-2104	1	30m3/hr		
5	CF-2101A	DECANTER	1			
6	CF-2101B	LIQ-LIQ-SOLID SEPARATORS	1			
(Q)	GLYCOL DEHYDRATION					
1	K-1201/02/03/04	DEHYDRATION KETTLE 1.2.3.4	4	78.53	98.17	5mø X 5mht
2	PK-1201A/B	TRANSFER PUMPS FOR K-1201	2	90 m3/hr		
3	PK-1202A/B	TRANSFER PUMPS FOR K-1202	2	90 m3/hr		
4	PK-1203A/B	TRANSFER PUMPS FOR K-1203	2	90 m3/hr		
5	PK-1204A/B	TRANSFER PUMPS FOR K-1204	2	90 m3/hr		
6	RB-1201/02/03/04	REBOILER FOR K-1201/02/03/04	4			
7	MF-1201A/B	MICRON FILTER FOR K-1201	2			
8	MF-1202A/B	MICRON FILTER FOR K-1202	2			
9	MF-1203A/B	MICRON FILTER FOR K-1203	2			
10	MF-1204A/B	MICRON FILTER FOR K-1204	2			
(R)	RESIDUE TANKS FOR G-1, G-2 SYSTEMS					
1	ST-2107	G-1 RESIDUE	1	50.8	63.5	3 X 9
2	ST-2108	G-1 RESIDUE	1	50.8	63.5	3 X 9
3	PST-2107	TR PUMP FOR ST-2107	1	50m3/hr		
4	PST-2108	TR PUMP FOR ST-2108	1	50m3/hr		
(S)	RESIDUE TANKS FOR WFE-2501/02					
1	WR-2501/02	G-3/4 WFE FEED RECEIVER	2			
2	PWR-2501	TR PUMP FOR WR-2501	1	30m3/hr		
3	PWR-2502	TR PUMP FOR WR-2502	1	30m3/hr		
(T)	FOR ACETIC ACID RECEIVERS					
1	R-2109/10/11	ACETIC ACID RECEIVERS	3	67.8	84.8	3 x 12
2	PR-2109	TR PUMPS FOR R-2109/10/11	1	80m3/hr		
(U)	WATER RECEIVERS FROM CENTRIFUGAL RECEIVERS					
1	ST-2105/06	WATER STORAGE RECEIVER	2	50.8	63.5	3 X 9
2	PST-2105	TR PUMP FOR ST-2105/06	1	50m3/hr		
(V)	RESIDUE TANKS FOR G-1.2.3.4 SYSTEMS					

1	ST-2201/02	G-3/4 RESIDUE	2	50.8	63.5	3 X 9
3	PST-2202	TR. PUMP FOR ST-2202	1	30m3/hr		
(W)	NON AROMATICS + IMPURITIES RECEIVER FROM LLE SECTION					
1	R-2107/08	NON AROMATICS + IMPURITIES RECEIVER	2	60.5	75.6	3 x 10.7
2	PR-2108	TR. PUMPS FOR R-2107/08	1	200m3/hr		
(X)	P&ID FOR 3/4 RESIDUE SETTLING TANKS					
1	ST-2109/10	G-1 RESIDUE SETTLING TANKS	2	50.8	63.6	3 x 9
2	PST-2109/10	TR. PUMPS FOR PST-2109/10	2	50m3/hr		

Mohammed

From: binod@petrotech.uk.com
Sent: Saturday, December 19, 2020 3:07 PM
To: 'Mohammed'
Cc: almaarif_law@hotmail.com
Subject: RE: equipment list
Attachments: Equipment List Ham 1&2.xlsx; Module-2 pump list.xlsx

Dear Sir,
Please find attached equipment and pump list.

Regards,
Binod

From: binod@petrotech.uk.com <binod@petrotech.uk.com>
Sent: 17 December 2020 17:02
To: 'Mohammed' <mahase@eim.ae>
Cc: 'almaarif_law@hotmail.com' <almaarif_law@hotmail.com>
Subject: equipment list

Dear Sir,
Please find the attached equipment list.

Thank You & Regards
Binod

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
(A)	DEMETAL STEP			
1	K-1101	DEMETAL KETTLE-1	1	4 X 4
2	RB-1101	REBOILER FOR K-1101	1	
3	PK-1101A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-1	2	
4	MIX-1101A/B	STATIC MIXERS FOR K-1101	2	
5	K-1102	DEMETAL KETTLE-2	1	4 X 4
6	RB-1102	REBOILER FOR K-1102	1	
7	PK-1102A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-2	2	
8	MIX-1102A/B	STATIC MIXERS FOR K-1102	2	
9	K-1103	DEMETAL KETTLE-3	1	4 X 4
10	RB-1103	REBOILER FOR K-1103	1	
11	PK-1103A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-3	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
12	MIX-1103A/B	STATIC MIXERS FOR K-1103	2	
13	K-1104	DEMETAL KETTLE-4	1	4 X 4
14	RB-1104	REBOILER FOR K-1104	1	
15	PK-1104A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEMETAL KETTLE-4	2	
16	MIX-1104A/B	STATIC MIXERS FOR K-1104	2	
17	R-1101 / 02	DEMETAL SOLUTION RECEIVER-1 & 2	2	2.8X4
18	MIX-1105A/B	STATIC MIXERS FOR R-1101/02	2	
19	PR-1101A/B	COMMON TRANSFER PUMPS FOR DAP SOLUTION RECEIVERS 1 & 2	2	
(B)	DEHYDRATION			
20	K-1201	DEHYDRATION KETTLE-1	1	5 X 5
21	RB-1201	REBOILER FOR K-1201	1	
22	HE-1201A	CONDENSER FOR K-1201	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
23	HE-1201B	AFTER COOLER FOR K-1201	1	
24	MF-1201A/B	MICRON FILTERS FOR K-1201	2	
25	PK-1201A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-1	2	
26	EJ-1201(301A)	EJECTOR SYSTEM FOR DEHYDRATION -1		
27	K-1202	DEHYDRATION KETTLE-2	1	5 X 5
28	RB-1202	REBOILER FOR K-1202	1	
29	HE-1202A	CONDENSER FOR K-1202	1	
30	HE-1202B	AFTER COOLER FOR K-1202	1	
31	MF-1202A/B	MICRON FILTERS FOR K-1202	2	
32	PK-1202A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-2	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
33	EJ-1202(301B)	EJECTOR SYSTEM FOR DEHYDRATION -2		
34	K-1203	DEHYDRATION KETTLE-3	1	5 X 5
35	RB-1203	REBOILER FOR K-1203	1	
36	HE-1203A	CONDENSER FOR K-1203	1	
37	HE-1203B	AFTER COOLER FOR K-1203	1	
38	MF-1203A/B	MICRON FILTERS FOR K-1203	2	
39	PK-1203A/B	REBOILER RECIRCULATION &TRANSFER PUMPS FOR DEHYRATION KETTLE-3	2	
40	EJ-1203(301C)	EJECTOR SYSTEM FOR DEHYDRATION -3		
41	K-1204	DEHYDRATION KETTLE-4	1	5 X 5
42	RB-1204	REBOILER FOR K-1204	1	
43	HE-1204A	CONDENSER FOR K-1204	1	
44	HE-1204B	AFTER COOLER FOR K-1204	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
45	MF-1204A/B	MICRON FILTERS FOR K-1204	2	
46	PK-1204A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DEHYDRATION KETTLE-4	2	
47	EJ-1204(301D)	EJECTOR SYSTEM FOR DEHYDRATION -4		
48	ST-1201/02/03/04/05/06/07/08/09/10/11/12	DEHYDRATION SETTLING TANKS	12	3X6
49	PST-1201A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR UPPER LAYER (OIL)	2	
50	PST-1202A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR BOTTOM LAYER (RESIDUE) FOR ST-1201/02/03/04	2	
51	PST-1203A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR BOTTOM LAYER (RESIDUE) FOR ST-1205/06/07/08	2	
52	PST-1204A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION SETTLING TANKS FOR BOTTOM LAYER (RESIDUE) FOR ST-1209/10/11/12	2	
53	ST-1213	DEHYDRATION RESIDUE COLLECTION RECEIVER AFTER SETTLING	1	2x2.5
54	PST-1205A/B	TRANSFER PUMPS FOR DEHYDRATION SETTLING TANK (RESIDUE) FOR ST-1213	2	
54	R-1201/02	DEHYDRATED WATER RECEIVERS-1,2,3,4,5	2	2.4X4.8
55	R-1203/04	DEHYDRATED WATER RECEIVERS-1,2,3,4,5	2	2.4X8.4
56	PR-1201A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION RECEIVERS R-1201/02/03/04	2	
57	R-1205/06	DEHYDRATION FEED RECEIVER-5&6	2	3X3

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
58	PR-1205A/B	COMMON TRANSFER PUMPS FOR DEHYDRATION FEED RECEIVERS R-1205/06	2	
	MIX-1205/06	STATIC MIXER FOR R-1205/06	2	
59	R-1207/08	DISTILLATION 1&2 FEED RECEIVER (DEHYDRATED OIL) STORAGE	2	3X10.7
60	PR-1203A/B	COMMON TRANSFER PUMPS FOR DISTILAATION 1&2 FEED RECEIVERS, R-1207/08	2	
(C)	DISTILLATION			
61	K-1301	KETTLE FOR DISTILLATION-1	1	6X9
62	RB-1301A/B	REBOILERS FOR K-1301	2	
63	HE-1301A/B	CONDENSERS FOR K-1301	2	
64	HE-1301C/D	AFTER COOLERS FOR K-1301	2	
65	PK-1301A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-1 KETTLE K-1301	2	
66	MF-1301A/B	MICRON FILTERS FOR K-1301	2	
	EJ-1301	EJECTOR SYSTEM FOR DISTILLATION-1	1	
	CP-1301	VACUUM CATCH POT FOR DISTILLATION-1	1	1X3
67	K-1302	KETTLE FOR DISTILLATION-2	1	6X9
68	RB-1302A/B	REBOILERS FOR K-1302	2	
69	HE-1302A/B	CONDENSERS FOR K-1302	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
70	HE-1302C/D	AFTER COOLERS FOR K-1302	2	
71	PK-1302A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-2 KETTLE K-1302	2	
72	MF-1302A/B	MICRON FILTERS FOR K-1302	2	
	CP-1302	VACUUM CATCH POT FOR DISTILLATION-2	1	1X3
	EJ-1302	EJECTOR SYSTEM FOR DISTILLATION-2		
73	K-1303	KETTLE FOR DISTILLATION-3	1	6X9
74	RB-1303	REBOILERS FOR K-1303	1	
75	HE-1303A	PRIMARY CONDENSER FOR K-1303	1	
76	HE-1303B	SECONDARY CONDENSER FOR K-1303	1	
77	HE-1303C/D	PRODUCT COOLER FOR K-1303	2	
78	PK-1303A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR DISTILLATION-3 KETTLE K-1303	2	
79	MF-1303A/B	MICRON FILTERS FOR K-1303	2	
80	R-1318	PRODUCT RECEIVER FOR DISTILLATION-3		2.5X8
80	CL-1301	COLUMN FOR DISTILLATION-3	1	
81	EJ-1303	EJECTOR SYSTEM FOR DISTILLATION-3	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
81	K-1304	KETTLE FOR DISTILLATION-4	1	6X9
82	RB-1304	REBOILERS FOR K-1304	1	
83	HE-1304A	PRIMARY CONDENSER FOR K-1304	1	
84	HE-1304B	SECONDARY CONDENSER FOR K-1304	1	
85	HE-1304C/D	PRODUCT COOLER FOR K-1304	2	
86	PK-1304A/B	REBOILER RECIRCULATION &TRANSFER PUMPS FOR DISTILLATION-3 KETTLE K-1304	2	
87	MF-1304A/B	MICRON FILTERS FOR K-1304	2	
88	R-1319	PRODUCT RECEIVER FOR DISTILLATION-4	1	
88	CL-1302	COLUMN FOR DISTILLATION-4	1	
89	EJ-1304	EJECTOR SYSTEM FOR DISTILLATION-4	1	
89	R-1301	BLACK DIESEL RECEIVER FOR DISTILLATION-1	1	2.5X4.25
90	R-1302	BLACK DIESEL RECEIVER FOR DISTILLATION-2	1	2.5X4.25
91	PR-1301A/B	COMMON TRANSFER PUMPS FOR BLACK DIESEL RECEIVER R-1301/02	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
92	R-1303	MIX CUT RECEIVER FOR DISTILLATION-1	1	2X5
93	R-1304	MIX CUT RECEIVER FOR DISTILLATION-2	1	2X5
94	PR-1302A/B	COMMON TRANSFER PUMPS FOR MIX CUT RECEIVER R-1303/04	2	
95	R-1305	HV CUT RECEIVER-1 FOR DISTILLATION-1&2	1	2.5X8.4
96	R-1306	HV CUT RECEIVER-2 FOR DISTILLATION-1&2	1	2.5X8.4
97	PR-1303A/B	COMMON TRANSFER PUMPS FOR HV CUT RECEIVER R-1305/06	2	
98	R-1307	RESIDUE RECEIVER FOR DISTILLATION 1 & 2	1	2.94X9.87
99	PR-1304A/B	TRANSFER PUMPS FOR DISTILLATION 1 & 2 RESIDUE RECEIVER R-1307	2	
100	R-1308/09/10/11	LV RECEIVERS FOR DISTILLATION-1&2	4	2.4X8.4
101	PR-1305A/B	COMMON TRANSFER PUMPS FOR LV RECEIVERS R-1308/09/10/11	2	
102	R-1312/13	RECEIVERS FOR DISTILLATION 3 & 4	2	2.5X8
103	PR-1306A/B	COMMON TRANSFER PUMPS FOR RECEIVERS R-1312/13	2	
104	R-1314/15	RECEIVERS FOR DISTILLATION 3 & 4	2	3X10.7

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
105	PR-1307A/B	COMMON TRANSFER PUMPS FOR RECEIVERS R-1314/15	2	
106	R-1316/17	MIX OIL STORAGE FOR DISTILLATION-1 & 2 RECEIVER R-1303, R-1304	2	3X10.7
107	PR-1308A/B	COMMON TRANSFER PUMPS FOR RECEIVERS R-1316/17	2	
(D)	EXTRACTION			
108	K-1401	EXTRACTION KETTLE-1	1	3.5X4
109	RB-1401	REBOILER FOR K-1401	1	
110	MIX-1401A/B/C/D	STATIC MIXER FOR K-1401	4	
111	PK-1401A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-1	2	
112	K-1402	EXTRACTION KETTLE-2	1	3.5X4
113	RB-1402	REBOILER FOR K-1402	1	
114	MIX-1402A/B/C/D	STATIC MIXER FOR K-1402	4	
115	PK-1402A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-2	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
116	K-1403	EXTRACTION KETTLE-3	1	3.5X4
117	RB-1403	REBOILER FOR K-1403	1	
118	MIX-1403A/B/C/D	STATIC MIXER FOR K-1403	4	
119	PK-1403A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-3	2	
120	K-1404	EXTRACTION KETTLE-4	1	3.5X4
121	RB-1404	REBOILER FOR K-1404	1	
122	MIX-1404A/B/C/D	STATIC MIXER FOR K-1404	4	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
123	PK-1404A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-4	2	
124	K-1405	EXTRACTION KETTLE-5	1	3.5X4
125	RB-1405	REBOILER FOR K-1405	1	
126	PK-1405A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-5	2	
127	MIX-1405A/B/C/D	STATIC MIXER FOR K-1405	4	
128	K-1406	EXTRACTION KETTLE-6	1	3.5X4
129	RB-1406	REBOILER FOR K-1406	1	
130	PK-1406A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-6	2	
131	MIX-1406A/B/C/D	STATIC MIXER FOR K-1406	4	
132	K-1407	EXTRACTION KETTLE-7	1	3.5X4
133	RB-1407	REBOILER FOR K-1407	1	
134	MIX-1407A/B/C/D	STATIC MIXER FOR K-1407	4	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
135	PK-1407A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-7	2	
136	K-1408	EXTRACTION KETTLE-8	1	3.5X4
137	RB-1408	REBOILER FOR K-1408	1	
138	MIX-1408A/B/C/D	STATIC MIXER FOR K-1408	4	
139	PK-1408A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-8	2	
140	K-1409	EXTRACTION KETTLE-9	1	3.5X4
141	RB-1409	REBOILER FOR K-1409	1	
142	MIX-1409A/B/C/D	STATIC MIXER FOR K-1409	4	
143	PK-1409A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR EXTRACTION KETTLE-9	2	
144	ST-1401/02/03/04/05/06/07/08/09	EXTRACTION GROUP-1 SETTLING TANKS FOR KETTLES K-1402/03/04	9	3X6
145	PST-1401A/B	COMMON TRANSFER PUMPS FOR GROUP-1 SETTLING TANKS ST-1401/02/03/04/05/06/07/08/09	2	
146	ST-1410/11/12/13/14/15/16/17/18	EXTRACTION GROUP-2 SETTLING TANKS FOR KETTLES K-1401/02/03	9	3X6
147	PST-1402A/B	COMMON TRANSFER PUMPS FOR GROUP-2 SETTLING TANKS ST-1410/11/12/13/14/15/16/17/18	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
148	ST-1419/20/21/22/23/24/25/26/27/28	EXTRACTION GROUP-3 SETTLING TANKS FOR KETTLES K-1407/1408/1409	10	3X6
149	PST-1403A/B	COMMON TRANSFER PUMPS FOR GROUP-3 SETTLING TANKS ST-1419/20/21/22/23/24/25/26/27/28	2	
150	R-1401	EXTRACTION GROUP-1 SOLVENT CHARGING RECEIVER FOR K-1401/02/03	1	2.4X8.3
151	PR-1401A/B	TRANSFER PUMP FOR GROUP-1 RECEIVER, R-1401	2	
152	R-1402	EXTRACTION GROUP-2 SOLVENT CHARGING RECEIVER FOR K-1404/05/06	1	2.4X8.3
153	PR-1402A/B	TRANSFER PUMP FOR GROUP-2 RECEIVER, R-1402	2	
154	R-1403	EXTRACTION GROUP-3 SOLVENT CHARGING RECEIVER FOR K-1407/08/09	1	2.4X8.3
155	PR-1403A/B	FEED PUMPS FOR GROUP-3 RECEIVER,R-1403	2	
156	R-1404/05	FEED CHARGING FOR EXTRACTION GROUP-2 RECEIVERS K-1404/05/06	2	3X12
157	PR-1404A/B	COMMON TRANSFER PUMPS FOR GROUP-2 RECEIVERS, R-1404/05	2	
158	R-1406/07	FEED CHARGING FOR EXTRACTION GROUP-3 RECEIVERS K-1407/08/09	2	3X12
159	PR-1405A/B	COMMON TRANSFER PUMPS FOR GROUP-3 RECEIVERS, R-1406/07	2	

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
(E)	CRACKING			
160	K-1501	CRACKER KETTLE-1	1	4X4.4
161	RB-1501	REBOILER FOR K-1501	1	
162	HE-1501A	PRIMARY CONDENSER FOR K-1501	1	
163	HE-1501B	AFTER COOLER FOR K-1501	1	
164	PK-1501A/B	REBOILER RECIRCULATION &TRANSFER PUMPS FOR CRACKER KETTLE-1	2	
165	MF-1501A/B	MICRON FILTERS FOR K-1501	2	
166	CP-1501	VACUUM CATCH POT FOR CRACKING-1	1	
167	EJ-701A	EJECTOR SYSTEM FOR CRACKING-1	1	
168	K-1502	CRACKER KETTLE-2	1	4X4.4
169	RB-1502	REBOILER FOR K-1502	1	
170	HE-1502A	PRIMARY CONDENSER FOR K-1502	1	
171	HE-1502B	AFTER COOLER FOR K-1502	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
172	PK-1502A/B	REBOILER CIRCULATION & TRANSFER PUMPS FOR CRACKER KETTLE-2	2	
173	MF-1502A/B	MICRON FILTERS FOR K-1502	2	
174	CP-1502	VACUUM CATCH POT FOR CRACKING-2	1	
175	EJ-701B	EJECTOR SYSTEM FOR CRACKING-2	1	
176	K-1503	CRACKER KETTLE-3	1	4X4.4
177	RB-1503	REBOILER FOR K-1503	1	
178	HE-1503A	PRIMARY CONDENSER FOR K-1503	1	
179	HE-1503B	AFTER COOLER FOR K-1503	1	
180	PK-1503A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR CRACKER KETTLE-3	2	
181	MF-1503A/B	MICRON FILTERS FOR K-1503	2	
182	CP-1503	VACUUM CATCH POT FOR CRACKING-3	1	
183	EJ-701C	EJECTOR SYSTEM FOR CRACKING-3	1	
184	K-1504	CRACKER KETTLE-4	1	4X4.4

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
185	RB-1504	REBOILER FOR K-1503	1	
186	HE-1504A	PRIMARY CONDENSER FOR K-1503	1	
187	HE-1504B	AFTER COOLER FOR K-1503	1	
188	PK-1504A/B	REBOILER RECIRCULATION &TRANSFER PUMPS FOR CRACKER KETTLE-4	2	
189	MF-1504A/B	MICRON FILTERS FOR K-1504	2	
190	CP-1504	VACUUM CATCH POT FOR CRACKING-4	1	
191	EJ-701D	EJECTOR SYSTEM FOR CRACKING-4	1	
192	R-1501	RESIDUE RECEIVER FOR CRACKER-1 &2	1	2.13X4.98

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
193	R-1502	RESIDUE RECEIVER FOR CRACKER-3 &4	1	2.13X4.98
194	PR-1501A/B	COMMON TRANSFER PUMPS FOR RESIDUE RECEIVER R-1501/02	2	
195	R-1503/04	RECOVERED SOLVENT TRANSIT RECEIVERS	2	3X10.7
196	PR-1502A/B	COMMON TRNSFER PUMPS FOR RECOVERED SOLVENT RECEIVER R-1503/04 TO DT-1706	2	
197	R-1505/06	CRACKER FEED RECEIVER (AFTER SETTLING)	2	3X10.7
198	PR-1503A/B	COMMON TRANSFER PUMPS FOR CRACKER CHARGE RECEIVERS R-1505/06	2	
199	R-1507/08/09/10	RECOVERED SOLVENT RECEIVER AFTER CRACKING	4	3X10.7
200	PR-1504A/B	COMMON TRANSFER PUMPS FOR CRACKER RECOVERED SOLVENT RECEIVER R-1507/08/09/10	2	
201	ST-1501/02	CRACKER RESIDUE SETTLING TANKS FROM R-1501/02	2	3X6
202	PST-1501A/B	COMMON TRANSFER PUMPS FOR RESIDUE SETTLING TANKS ST-1501/02	2	
(F)	STRIPPING			
203	K-1601	STRIPPING KETTLE-1	1	5X5

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
204	RB-1601A/B	REBOILERS FOR K-1601	2	
205	HE-1601A/B	COOLERS FOR K-1602	2	
205	HE-1601C	PRIMARY CONDENSER FOR K-1601	1	
206	HE-1601D	AFTER COOLER FOR K-1601	1	
207	PK-1601A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-1	2	
208	MIX-1601A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1601	8	
209	CP-1601	VACUUM CATCH POT FOR STRIPPING-1	1	
210	EJ-501A	EJECTOR SYSTEM FOR STRIPPING-1	1	
209	K-1602	STRIPPING KETTLE-2	1	5X5
210	RB-1602A/B	REBOILERS FOR K-1602	2	
211	HE-1602A/B	COOLERS FOR K-1602	2	
211	HE-1602C	PRIMARY CONDENSER FOR K-1602	1	
212	HE-1602D	AFTER COOLER FOR K-1602	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
213	PK-1602A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-2	2	
214	MIX-1602A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1602	8	
215	CP-1602	VACUUM CATCH POT FOR STRIPPING-2	1	
216	EJ-501B	EJECTOR SYSTEM FOR STRIPPING-2	1	
215	K-1603	STRIPPING KETTLE-3	1	5X5
216	RB-1603A/B	REBOILERS FOR K-1603	2	
217	HE-1603A/B	COOLERS FOR K-1603	2	
217	HE-1603C	PRIMARY CONDENSER FOR K-1603	1	
218	HE-1603D	AFTER COOLER FOR K-1603	1	
219	PK-1603A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-3	2	
220	MIX-1603A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1603	8	
221	CP-1603	VACUUM CATCH POT FOR STRIPPING-3	1	
222	EJ-501C	EJECTOR SYSTEM FOR STRIPPING-3	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
221	K-1604	STRIPPING KETTLE-4	1	5X5
222	RB-1604A/B	REBOILERS FOR K-1604	2	
223	HE-1604A/B	COOLERS FOR K-1604	2	
223	HE-1604C	PRIMARY CONDENSER FOR K-1604	1	
224	HE-1604D	AFTER COOLER FOR K-1604	1	
225	PK-1604A/B	REBOILER RECIRCULATION & TRANSFER PUMPS FOR STRIPPING KETTLE-4	2	
226	MIX-1604A/B/C/D/E/F/G/H	STATIC MIXER FOR K-1604	8	
227	CP-1604	VACUUM CATCH POT FOR STRIPPING-4	1	
228	EJ-501D	EJECTOR SYSTEM FOR STRIPPING-4	1	
227	R-1601/02	CONTAMINATED SOLVENT RECEIVER-1,2,3&4 AFTER STRIPPING	2	2X4
228	R-1603/04	CONTAMINATED SOLVENT RECEIVER-1,2,3&4 AFTER STRIPPING	2	2X4
229	PR-1601A/B	COMMON TRANSFER PUMPS FOR STRIPPING SOLVENT RECEIVER R-1601/02/03/04	2	
230	R-1605/06	CONTAMINATED WATER RECEIVER-5,6,7&8 AFTER STRIPPING	2	2X4

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
231	R-1607/08	CONTAMINATED WATER RECEIVER-5,6,7&8 AFTER STRIPPING	2	2X3
232	PR-1602A/B	COMMON TRANSFER PUMPS FOR STRIPPING WATER RECEIVER R-1605/06//07/08	2	
233	R-1609	CONTAMINATED AROMATICS RECEIVER AFTER STRIPPING	1	2X4
234	PR-1603A/B	TRANSFER PUMPSFOR STRIPPING AROMATIC RECEIVER R-1609	2	
235	R-1610	COMMON FEED CHARGING RECEIVER FOR STRIPPING KETTLES K-1601/02/03/04	1	3X10.7
236	PR-1604A/B	TRANSFER PUMPS FOR CHARGE RECEIVERS R-1610	2	
236	R-1611	COMMON CHARGE RECEIVER FOR STRIPPING KETTLES K-1601/02/03/04	1	3X10.7
237	PR-1605A/B	TRANSFER PUMPS FOR CHARGE RECEIVERS R-1611	2	
238	R-1612/13	FINAL PRODUCT RECEIVER FROM STRIPPING KETTLES K-1601/02/03/04	2	3X10.7
239	PR-1606A/B	COMMON TRANSFER PUMPS FOR DISCHARGE RECEIVERS R-1612/13	2	
(G)	DAY TANKS			
240	DT-1701	RESIDUE DAY TANK	1	6X12

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
241	PDT-1701A/B	TRANSFER PUMPS FOR RESIDUE DAY TANK	2	
242	DT-1702	BLACK DIESEL DAY TANK	1	6X12
243	PDT-1702A/B	TRANSFER PUMPS FOR BLACK DIESEL DAY TANK	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
244	DT-1703	BLACK OIL DAY TANK (UEO)	1	6X12
245	PDT-1703A/B	TRANSFER PUMPS FOR BLACK OIL DAY TANK	2	
246	MF-1703A/B	MICRON FILTER FOR BLACK OIL DAY TANK	2	
246	DT-1704	HV DAY TANK	1	6X12
247	DT-1705	LV DAY TANK	1	6X12
248	PDT-1704A/B	COMMON TRANSFER PUMPS FOR HV, LV DAY TANKS DT-1704/05	2	
249	DT-1706	PURE SOLVENT DAY TANK + RECOVERED SOLVENT OTHER CRACKING	1	6X12
250	PDT-1705A/B	TRANSFER PUMPS FOR PURE SOLVENT DAY TANK	2	
251	DT-1707	CONTAMINATED SOLVENT DAY TANK FOR STRIPPING RECEIVERS	1	6X12
252	PDT-1706A/B	TRANSFER PUMPS FOR CONTAMINATED SOLVENT DAY TANK	2	
(G)	OTHER RECEIVERS			
253	R-1801/02	RECEIVER -1 & 2 (EMPTY)	2	3X12

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
254	PR-1801A/B	COMMON TRANSFER PUMPS FOR RECEIVER R-1801/02	2	
255	R-1803/04/05	RECEIVER-3,4&5 FOR CHILLED BOX -1,2,3	3	3X12
256	PR-1802A/B	COMMON TRANSFER PUMPS FOR RECEIVER R-1803	2	
257	R-1806	WATER RECEIVER	1	3X12
258	PR-1803A/B	TRANSFER PUMPS FOR RECEIVER R-1806	2	
(H)	UTILITY			
259	B-1901/02/03/04/05/06/07/08/09/10/11/12/13/14	BOILER	14	
260	CT-1901A/B	COOLING TOWER -1	2	
261	PCT-1901		1	
262	CT-1902A/B	COOLING TOWER -2	2	
263	PCT-1902		1	
264	CT-1903A/B	COOLING TOWER -3	2	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
265	PCT-1903		1	
266	CT-1904A/B	COOLING TOWER -4	2	
267	PCT-1904		1	
268	CT-1905A/B	COOLING TOWER -5	2	
269	PCT-1905		1	
270	CT-1906A/B	COOLING TOWER -6	2	
271	PCT-1906		1	
272	CT-1907A/B	COOLING TOWER -7	2	
273	PCT-1907		1	
274	CWT-1901	COOLING WATER TANK-1	1	
275	PCT-1908		1	
276	CWT-1902	COOLING WATER TANK-2	1	
277	PCT-1909		1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
278	CWT-1903	COOLING WATER TANK-3	1	
279	PCT-1910		1	
280	CH-1901	CHILLER-1	1	
281	CH-1902	CHILLER-2	1	
282	CH-1903	CHILLER-3	1	
283	CH-1904	CHILLER-4	1	
284	CH-1905	CHILLER-5	1	
285	CH-1906	CHILLER-6	1	
286	CH-1907	CHILLER-7	1	
287	CH-1908	CHILLER-8	1	
288	CH-1909	CHILLER-9	1	
289	CH-1910	CHILLER-10	1	
290	CH-1911	CHILLER-11	1	

PROJECT : MODULE-1

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
				m (Dia X Ht)
291	CH-1912	CHILLER-12	1	

PROJECT : MODULE-2

Sr. No.	Equipment No.	Equipment Name	Quantity	Size
(A)	G-1 DISTILLATION SYSTEM			m (Dia X Ht)
1	K-2101	KETTLE FOR G-1 DISTILLATION SYSTEM	1	3 X 18.5
2	CL-2101	DISTILLATION COLUMN FOR G-1 DISTILLATION SYSTEM	1	1.8 X 28.72
3	RB-2101A/B	REBOILER FOR G-1 DISTILLATION SYSTEM	2	0.79 X 6
4	PK-2101A/B	CIRCULATION PUMPS FOR RB-2101A/B	2	
5	HE-2101A	PRIMARY CONDENSER FOR G-1 DISTILLATION SYSTEM	1	
6	HE-2101B	SECONDARY CONDENSER FOR G-1 DISTILLATION SYSTEM	1	0.5 X 20
7	HE-2101C	AFTER COOLER CONDENSER FOR G-1 DISTILLATION SYSTEM	1	
8	CP-2101A	CATCH POT FOR G-1 DISTILLATION SYSTEM	1	1mø X 3ml
9	R-2101	CUT-1 RECEIVER FOR CL-2101	1	3 X 5.35

10	R-2102	CUT-2 RECEIVER FOR CL-2101	1	3 X 5.35
11	R-2103	CUT-3 RECEIVER FOR CL-2101	1	3 X 5.35
12	R-2104	CUT-1 RECEIVER FOR CL-2201	1	3 X 5.35
13	PR-2101	TRANSFER PUMPS FOR R-2101	1	
14	PR-2102	TRANSFER PUMPS FOR R-2102	1	
15	PR-2103	TRANSFER PUMPS FOR R-2103	1	
16	PR-2104	TRANSFER PUMPS FOR R-2104	1	
(B)	G-2 DISTILLATION SYSTEM			
1	K-2102	KETTLE FOR G-2 DISTILLATION SYSTEM	1	3 X 18.5
2	CL-2102	DISTILLATION COLUMN FOR G-2 DISTILLATION SYSTEM	1	1.8 X 28.72
3	RB-2102A/B	REBOILER FOR G-2 DISTILLATION SYSTEM	2	0.79 X 6

4	PK-2102A/B	CIRCULATION PUMPS FOR RB-2102A/B	2	
5	HE-2102A	PRIMARY CONDENSER FOR G-2 DISTILLATION SYSTEM	1	
6	HE-2102B	SECONDARY CONDENSER FOR G-2 DISTILLATION SYSTEM	1	0.5X20
7	HE-2102C	AFTER COOLER CONDENSER FOR G-2 DISTILLATION SYSTEM	1	
8	CP-2102A	CATCH POT FOR G-2 DISTILLATION SYSTEM	1	1m ϕ X 3ml
9	R-2105	CUT-2 RECEIVER FOR CL-2102	1	3 X 5.35
10	R-2106	CUT-3 RECEIVER FOR CL-2102	1	3 X 5.35
11	PR-2105	TRANSFER PUMPS FOR R-2105	1	
12	PR-2106	TRANSFER PUMPS FOR R-2106	1	
(C)	G-3 DISTILLATION SYSTEM			
1	K-2201	KETTLE FOR G-3 DISTILLATION SYSTEM	1	3 X 18.5

2	CL-2201	DISTILLATION COLUMN FOR G-3 DISTILLATION SYSTEM	1	1.8 X 28.72
3	RB-2201A/B	REBOILER FOR G-3 DISTILLATION SYSTEM	2	0.79 X 6
4	PK-2201A/B	CIRCULATION PUMPS FOR RB-2201A/B	2	
5	HE-2201A	PRIMARY CONDENSER 1 FOR G-3 DISTILLATION SYSTEM	1	
6	HE-2201B	SECONDARY CONDENSER 1 FOR G-3 DISTILLATION SYSTEM	1	0.5 X 20
7	HE-2201C	AFTER COOLER 1 CONDENSER FOR G-3 DISTILLATION SYSTEM	1	
8	CP-2201A	CATCH POT 1 FOR G-3 DISTILLATION SYSTEM	1	1m ϕ X 3ml
9	R-2201	CUT-1 RECEIVER FOR CL-2201	1	3 X 5.35
10	R-2202	CUT-2 RECEIVER FOR CL-2201	1	3 X 5.35
11	R-2203	CUT-3 RECEIVER FOR CL-2201	1	3 X 5.35
12	R-2301	CUT-1RECEIVER FOR CL-2301	1	3 X 5.35
13	PR-2201	TRANSFER PUMPS FOR R-2201	1	

14	PR-2202	TRANSFER PUMPS FOR R-2202	1	
15	PR-2203	TRANSFER PUMPS FOR R-2203	1	
16	PR-2301	TRANSFER PUMPS FOR R-2301	1	
(D)	G-3 DISTILLATION SYSTEM			
1	K-2301	KETTLE FOR G-3 DISTILLATION SYSTEM	1	3 X 18.5
2	CL-2301	DISTILLATION COLUMN FOR G-3 DISTILLATION SYSTEM	1	1.8 X 28.72
3	RB-2301A/B	REBOILER FOR G-3 DISTILLATION SYSTEM	2	0.79 X 6
4	PK-2301A/B	CIRCULATION PUMPS FOR RB-2301A/B	2	
5	HE-2301A	PRIMARY CONDENSER FOR G-3 DISTILLATION SYSTEM	1	
6	HE-2301B	SECONDARY CONDENSER FOR G-3 DISTILLATION SYSTEM	1	0.5 X 20
7	HE-2301C	AFTER COOLER CONDENSER FOR G-3 DISTILLATION SYSTEM	1	

8	CP-2301A	CATCH POT FOR G-3 DISTILLATION SYSTEM	1	1m ϕ X 3ml
9	R-2302	CUT-2 RECEIVER FOR CL-2301	1	3 X 5.35
10	R-2303	CUT-3 RECEIVER FOR CL-2301	1	3 X 5.35
11	PR-2302	TRANSFER PUMPS FOR R-2302	1	
12	PR-2303	TRANSFER PUMPS FOR R-2303	1	
(E)	G-4 DISTILLATION SYSTEM			
1	K-2401	KETTLE FOR G-4 DISTILLATION SYSTEM	1	3 X 18.5
2	CL-2401	DISTILLATION COLUMN1 FOR 4 DISTILLATION SYSTEM	1	1.8 X 28.72
3	RB-2401A/B	REBOILER 1&2 FOR G-4 DISTILLATION SYSTEM	2	0.79 X 6
4	PK-2401A/B	CIRCULATION PUMPS FOR RB-2401A/B	2	
5	HE-2401A	PRIMARY CONDENSER 1 FOR G-4 DISTILLATION SYSTEM	1	
6	HE-2401B	SECONDARY CONDENSER 1 FOR G-4 DISTILLATION SYSTEM	1	0.5 X 20

7	CP-2401A	CATCH POT 1 FOR G-4 DISTILLATION SYSTEM	1	1mø X 3ml
7	R-2401	CUT-1RECEIVER FOR CL-2401	1	3 X 5.35
8	R-2402	CUT-2RECEIVER FOR CL-2401	1	3 X 5.35
8	R-2403	CUT-3 RECEIVER FOR CL-2401	1	3 X 5.35
9	R-2501	CUT-1RECEIVER FOR CL-2501	1	3 X 5.35
9	PR-2401	TRANSFER PUMPS FOR R-2401	1	
10	PR-2402	TRANSFER PUMPS FOR R-2402	1	
10	PR-2403	TRANSFER PUMPS FOR R-2403	1	
11	PR-2501	TRANSFER PUMPS FOR R-2501	1	
(F)	G-4 DISTILLATION SYSTEM			
1	K-2501	KETTLE 2 FOR G-4 DISTILLATION SYSTEM	1	3 X 18.5
2	CL-2501	DISTILLATION COLUMN 2 FOR G-4 DISTILLATION SYSTEM	1	1.8 X 28.72

3	RB-2501A/B	REBOILER 3&4 FOR G-4 DISTILLATION SYSTEM	2	0.79 X 6
4	PK-2501A/B	CIRCULATION PUMPS FOR RB-2501A/B	2	
5	HE-2501A	PRIMARY CONDENSER 2 FOR G-4 DISTILLATION SYSTEM	1	
6	HE-2501B	SECONDARY CONDENSER 2 FOR G-4 DISTILLATION SYSTEM	1	0.5 X 20
7	HE-2501C	AFTER COOLER CONDENSER 2 FOR G-4 DISTILLATION SYSTEM	1	
8	CP-2501A	CATCH POT FOR G-4 DISTILLATION SYSTEM	1	1m \varnothing X 3ml
9	R-2502	CUT-2 RECEIVER FOR CL-2501	1	3 X 5.35
10	R-2503	CUT-3 RECEIVER FOR CL-2501	1	3 X 5.35
11	PR-2502	TRANSFER PUMPS FOR R-2502	1	
12	PR-2503	TRANSFER PUMPS FOR R-2503	1	
(G)	G1/2/3/4 DISTILLATION SYSTEM			
1	DT-2102	SOLFOLANE + AROMATICS FOR G-3 & G-4 DIST. SYSTEM	1	6 X 12

2	DT-2103	PY GAS FOR G-3 DIST, G-4 & LLE-2601 SYSTEM	1	6 X 12
3	DT-2104	BTX FOR G-3 & G-4 DIST.SYSTEM & LLE -2601	1	6 X 12
4	PDT-2102	TR. PUMPS FOR DT-2102	1	
5	PDT-2103	TR. PUMPS FOR DT-2103	1	
6	PDT-2104	TR. PUMPS FOR DT-2104	1	
7	T-4117	STORAGE TANK FOR SULFOLANE	1	14 X 20
8	PT-4117	TR. PUMPS FOR DT-4117	1	
(H)	WFE SYSTEM 1			
1	WFE-2501	WIPPED FILM EVAPORATOR COLUMN-1	1	
2	WR-2503	TOP PRODUCT RECEIVER FOR WFE-2501	1	
3	WR-2504	BOTTOM PRODUCT RECEIVER FOR WFE-2501	1	

4	PWR-2503	TRANSFER PUMP FOR TOP PRODUCT RECEIVER WR-2503	1	
5	PWR-2504	TRANSFER PUMP FOR BOTTOM PRODUCT RECEIVER WR-2504	1	
0	WFE SYSTEM 2			
(L)	LLE SYSTEM			
1	LLE-2601/02/03/04	LIQUID-LIQUID EXTRACTION COLUMN-1.2.3	4	
2	SEP-2601A/02A/03A/04A	TOP SEPARATORS FOR LLE-2601/02/03/04	4	1X3
3	SEP-2601B/02B/03B/04B	BOTTOM SEPARATORS FOR LLE-2601/02/03/04	4	1X3
4	R-2601	SOL+FEED RECEIVER FOR LLE-2601	1	3X5.4
5	R-2602	SOL+FEED RECEIVER FOR LLE-2602	1	3X5.4
6	R-2603	SOL+FEED RECEIVER FOR LLE-2602	1	3X2.8
7	R-2604	NON AROMATICS+IMPURITIES RECEIVER FOR LLE-2601/02/03/04	1	3X2.8

8	R-2606	SOL+FEED RECEIVER FOR LLE-2602	1	3X2.5
9	R-2605	NON AROMATICS+IMPURITIES RECEIVER FOR LLE-2601/02/03/04	1	3X2.5
10	PR-2601	TR PUMPS FOR R-2601	1	
11	PR-2602	TR PUMPS FOR R-2602	1	
12	PR-2603	TR PUMPS FOR R-2603	1	
13	PR-2604	TR PUMPS FOR R-2604	1	
14	PR-2606	TR PUMPS FOR R-2606	1	
(M)	G-1/2/3/4 DISTILLATION SYSTEMS			
1	DT-2106	GLYCOL FEED TANK	1	6 x 12
2	PDT-2106	TR. PUMPS FOR DT-2103	1	
3	T-4116	ETHANOL FEED TANK	1	8X12
4	PT-4116	TR. PUMPS FOR T-4116	1	

5	DT-2105	ETHYLACETATE FEED TANK	1	6 x 12
6	PDT-2105	TR. PUMPS FOR DT-2104	1	
7	DT-2101	PRODUCT FROM DISTILLATION-3/4	1	6 x 12
8	PDT-2101	TR. PUMPS FOR DT-2101	1	
(N)	GLYCOL / EA BLENDING			
1	K-2103/04/05	G-1/2 BLENDING KETTLE	3	3.5 X 4
2	RB-2103/04/05	REBOILERS FOR RB-2103/04/05	3	
3	PK-2103A/B	TR PUMPS FOR K-2103	2	
4	PK-2104A/B	TR PUMPS FOR K-2104	2	
5	PK-2105A/B	TR PUMPS FOR K-2105	2	
6	MIX-2103A/B/C/D	STATIC MIXER FOR K-2103	4	
7	MIX-2104A/B/C/D	STATIC MIXER FOR K-2104	4	

8	MIX-2105A/B/C/D	STATIC MIXER FOR K-2105	4	
(O)	TANKS FOR GLYCOL TREATMENT			
1	ST-2101/02	SETTLING TANKS	2	3 X 9
2	PST-2101A/B	RESIDUE TR PUMPS FOR ST-2101/02	2	
(P)	DECANTER & LIQ-LIQ-SOLID SEPARATORS			
1	ST-2103	PRODUCT RECEIVER FOR CF-2101A/B	1	3 X 9
2	PST-2103	TR. PUMPS FOR ST-2103	1	
3	ST-2104	RESIDUE RECEIVER FOR CF-2101A/B	1	3 X 9
4	PST-2104	TR PUMPS FOR ST-2104	1	
5	CF-2101A	DECANTER	1	
6	CF-2101B	LIQ-LIQ-SOLID SEPARATORS	1	
(Q)	GLYCOL DEHYDRATION			

1	K-1201/02/03/04	DEHYDRATION KETTLE 1.2.3.4	4	5mø X 5mht
2	PK-1201A/B	TRANSFER PUMPS FOR K-1201	2	
3	PK-1202A/B	TRANSFER PUMPS FOR K-1202	2	
4	PK-1203A/B	TRANSFER PUMPS FOR K-1203	2	
5	PK-1204A/B	TRANSFER PUMPS FOR K-1204	2	
6	RB-1201/02/03/04	REBOILER FOR K-1201/02/03/04	4	
7	MF-1201A/B	MICRON FILTER FOR K-1201	2	
8	MF-1202A/B	MICRON FILTER FOR K-1202	2	
9	MF-1203A/B	MICRON FILTER FOR K-1203	2	
10	MF-1204A/B	MICRON FILTER FOR K-1204	2	
(R)	RESIDUE TANKS FOR G-1, G-2 SYSTEMS			
1	ST-2107	G-1 RESIDUE	1	3 X 9

2	ST-2108	G-1 RESIDUE	1	3 X 9
3	PST-2107	TR PUMP FOR ST-2107	1	
4	PST-2108	TR PUMP FOR ST-2108	1	
(S)	RESIDUE TANKS FOR WFE-2501/02			
1	WR-2501/02	G-3/4 WFE FEED RECEIVER	2	
2	PWR-2501	TR PUMP FOR WR-2501	1	
3	PWR-2502	TR PUMP FOR WR-2502	1	
(T)	FOR ACETIC ACID RECEIVERS			
1	R-2109/10/11	ACETIC ACID RECEIVERS	3	3 x 12
2	PR-2109	TR PUMPS FOR R-2109/10/11	1	
(U)	WATER RECEIVERS FROM CENTRIFUGAL RECEIVERS			
1	ST-2105/06	WATER STORAGE RECEIVER	2	3 X 9

2	PST-2105	TR PUMP FOR ST-2105/06	1	
(V)	RESIDUE TANKS FOR G-1.2.3.4 SYSTEMS			
1	ST-2201/02	G-3/4 RESIDUE	2	3 X 9
3	PST-2202	TR. PUMP FOR ST-2202	1	
(W)	NON AROMATICS + IMPURITIES RECEIVER FROM LLE SECTION			
1	R-2107/08	NON AROMATICS + IMPURITIES RECEIVER	2	3 x 10.7
2	PR-2108	TR. PUMPS FOR R-2107/08	1	
(X)	P&ID FOR 3/4 RESIDUE SETTLING TANKS			
1	ST-2109/10	G-1 RESIDUE SETTLING TANKS	2	3 x 9
2	PST-2109/10	TR. PUMPS FOR PST-2109/10	2	

المرفق رقم 2

SL#	Description	Balance
1	2" internal eccentric Gear Pump Q15M3/hr,5.5KW	6
2	MCPK 100-65-200 90F,15H,22KW	2
4	HPKL Pumps 150x125x250 SS Shaft & Impeller H-20M Q-200 CBM Temp-345°C CS casing	2
6	HPKL 200-150-250, 300m3/hr, 20m H, 200°C	2
7	KSB MCPK water Pumps 125-080-400 100m3	2
8	MAS NME 100-160, H-30 M, 30KW, 200 M3/H (SINGLE COOLING SYSTEM)	5
9	MAS NME 100-160, H-30 M, 30KW, 200 M3/H (DOUBLE COOLING SYSTEM)	5
13	KSB CPKCY 80-250 Q86 H16 full SS	2
17	MAS BLUE EFFICIENCY, TYPE:NM 65-160 15KW, HM:30M, Q-100 M3/H, YOM-2016 (water pump)	10
21	50 NB Rotodel gear pump Flow-12cbm/ h1440 RPM 5HP FLMP motor	28
25	80 NB rotary gear pump Flow30cbm 1440 RPM 15HP FLMP motor	21
29	100 NB rotary gear pump Flow30cbm 1440 RPM 15HP FLMP motor	12

المرفق رقم 3

MS ITEMS (PLANT)

S.NO	ITEM	SIZE	CLASS/TYPE	BALANCE STOCK
1	GLOBE VALVE NPT	1/2"	# 800	0
2	Spring Type Wafer Check valve	1/2"	PN 40	16
3	BALL VALVE	1/2"	# 800 FLANGE	0
4	BALL VALVE	1/2"	#150, Flange typ	45
5	BALL VALVE	1/2" SS THREADED	#150, Flange typ	0
6	GLOBE VALVE	1/2"	#800 Threaded	118
7	Bellow Sealed (Globe) Valve	1/2"	PN 16	12
8	TD 32F Thermod steam Trap Float Trap	3/4" Y Stainer	PN16	8
9	Bellow Sealed (Globe) Valve	3/4"	PN 16	19
10	Spring Type Wafer Check valve	3/4"	PN 40	7
11	GLOBE VALVE	1/2"	#150, Flange typ	118
12	GATE VALVE	1/2"	# 800,Socket we	98
13	GATE VALVE	1/2"	#150, Flange typ	74
14	BALL VALVE S S	1"	#150, Flange typ	0
15	GLOBE VALVE	1"	# 800,Socket we	4
16	GLOBE VALVE	1"	#150, Flange typ	2
17	Bellow Sealed (Globe) Valve	1"	PN 16	0
18	Ball Float Trap	1"	PN16	0
19	GATE VALVE	1"	#150	2
20	GATE VALVE S S	1"	#150, Flange typ	6
21	Cl Y Striner	1"	PN16	20
22	N R V	1"	#150, Flange typ	10
23	Spring Type Wafer Check valve	1"	PN 40	5
24	Bellow Sealed (Globe) Valve	1 1/4"	PN 16	14
25	BALL VALVE	1.5" TRIM SS 316	#150, Flange typ	53
26	GATE VALVE	1.5"	# 800,Socket we	0
27	GATE VALVE	1.5"	#150, Flange typ	0
28	GLOBE VALVE	1.5"	#150, Flange typ	0
29	Cl Y Striner	1 1/2"	PN16	14
30	Spring Type Wafer Check valve	1 1/2"	PN 40	3
31	Single Plate Wafer Check Valve	1 1/2" 316	PN16 316	5
32	Ball Float Trap	1 1/2"	PN16	14
33	Bellow Sealed (Globe) Valve	1 1/2"	PN 16	18
34	GLOBE VALVE	1.5"	# 800,FLANGE	0
35	GLOBE VALVE	1.5"	# 800,Threaded	0
36	GATE VALVE	2"	#150, Flange typ	12
37	GATE VALVE	2"	# 800 S/W	36
38	N R V (SWING CHECK VALVE)	2"	#150, Flange typ	142
39	GLOBE VALVE	2"	# 800 S/W	2
40	GLOBE VALVE	2"	#150, Flange typ	138
41	GLOBE VALVE	2"	# 300	0
42	Cl Y Striner	2"	PN16	2

43	Bellow Sealed (Globe) Valve	2 "	PN 16	20
44	PRESSURE RELIEF VALVE (safety valve)	2"	0	15
45	BALL VALVE	2"	#150 FLANGE	141
46	Ball Float Trap	2"	PN40	4
47	Bellow Sealed (Globe) Valve	2 ½"	PN 16	4
48	NBR RUBBER EXPANSION BELLOW	2 ½"	0	50
49	Single Plate Wafer Check Valve	3" 316	PN16 316	0
50	BALL VALVE	3"	#150 FLANGE	43
51	GATE VALVE	3"	# 150	0
52	BUTTERFLY VALVE WAFER TYPE	3" SS316 DISC	# 150	35
53	CI BUTTERFLY VALVE SS disc EDPM Seat	0	0	0
54	GLOBE VALVE	3"	#150,	193
55	Bellow Sealed (Globe) Valve	3 "	PN 16	0
56	N R V (SWING CHECK VALVE)	3"	# 150	58
57	NRV	3" PN16	PN16	28
58	Y STAINER	3"	# 150	53
59	PRESSURE RELIEF VALVE (8BAR)Safety v	3"	# 150	12
60	RUBBER EXPANSION BELLOW	3" sorf	#150, Flange typ	21
61	RUBBER EXPANSION BELLOW	3" sorf PN16	PN16	8
62	SS Metal Bellow	3"	0	0
63	Metal Bellow	3" PN16	PN16	0
64	NODULAR CAST IRON BELLOWS (GLOBE)	3" PN 16	pCS	14
65	Rubber Bellow MS # 150	3"	0	17
66	Side Flow Indicator	4" Glass type	0	30
67	GLOBE VALVE	4"	#150 FLANGE	220
68	GLOBE VALVE	4" PN 16	0	20
69	Single Plate Wafer Check Valve	4" 316	PN16 316	0
70	Bellow Sealed (Globe) Valve	4 "	PN 16	9
71	BUTTERFLY VALVE WAFER TYPE	4" SS316 DISC	# 150	91
72	GATE VALVE	4"	#150 FLANGE	13
73	GATE VALVE WCB Body	4"	JC Valves	12
74	BALL VALVE	4"	#150 FLANGE	10
75	Ball Valve actuator type WCB body	4" SS316	Valtronics	108
76	Ball Valve actuator type CF8M body	4" SS316	Valtronics	4
77	Y STAINER	4"	# 150	59
78	N R V (SWING CHECK VALVE)	4"	# 150	3
79	NRV	4" PN16	PN16	13
80	RUBBER EXPANSION BELLOW	4" sorf	0	16
81	Rubber Bellow MS # 150	4"	0	1
82	Rubber Bellow MS PN 16	4" PN 16	0	0
83	SS Metal Bellow	4"	PCD 270	66
84	SS Metal Bellow	4"	PCD 310	0
85	Metal Bellow	4" PN16	PN16	0
86	BUTTERFLY VALVE WAFER TYPE(Spring R	4" Automatic	#150	9

87	SS Metal Bellow	5"		0	0
88	Side Flow Indicator	6" Glass type		0	30
89	GLOBE VALVE	6"	#150 FLANGE		8
90	Bellow Sealed (Globe) Valve	6 "	PN 16		1
91	Y STAINER	6"	# 150		0
92	Y STAINER	6" trim ss 316	#150		0
93	BUTTERFLY VALVE WAFER TYPE	6" SS316 DISC	PN 16		0
94	CI BUTTERFLY VALVE	6"	PN 16		0
95	BALL VALVE	6" trim ss 316	#150 FLANGE		38
96	GATE VALVE	6"	#150 FLANGE		12
97	GATE VALVE	6" low temp	#150 FLANGE		0
98	N R V (SWING CHECK VALVE)	6"	#150 FLANGE		0
99	N R V (SWING CHECK VALVE)	6"	SS316		0
100	NRV	6" PN16	PN16		20
101	SS Metal Bellow	6"		0	0
102	Metal Bellow	6" PN16	PN16		0
103	RUBBER EXPANSION BELLOW	6" sorf		0	51
104	Rubber Bellow MS # 150	6"		0	0
105	Rubber Bellow MS PN 16	6" PN 16		0	0
106	Expansion SS Bellow PN 16	6" PN16		0	0
107	Ball Valve actuator type WCB body	6" SS316	Valtronics		112
108	Ball Valve actuator type CF8M body	6" SS316	Valtronics		12
109	BUTTERFLY VALVE WAFER TYPE(Spring R	6" Automatic	#150		11
110	BUTTERFLY C.I VALVE	8"	#150		0
111	BUTTERFLY VALVE	8" PN16		0	1
112	BUTTERFLY VALVE WAFER TYPE	8"		0	5
113	GATE VALVE	8"		0	1
114	GATE VALVE OS & Y WCB BODY	8"		0	4
115	GLOBE VALVE	8"	#150		22
116	GLOBE VALVE	8"	#300		16
117	GLOBE VALVE	8" PN16	PN16		0
118	STANDARD SAFETY GLOBE VALVE VALV	8" PN16		0	0
119	NRV	8" PN16		0	37
120	N R V (SWING CHECK VALVE)	8"	#150 FLANGE		3
121	Single Plate Wafer Check Valve	8" 316	PN16 316		10
122	NODULAR CAST IRON BELLOWS VALVE	8"		0	0
123	NODULAR CAST IRON BELLOWS (GLOBE)	8" PN 16		0	19
124	Y STAINER	8" trim ss 316	#150		3
125	Rubber Bellow MS # 150	8"		0	2
126	Rubber Bellow MS PN 16	8" PN16		0	10
127	Expansion SS Bellow PN 16	8" PN16		0	1
128	Ball Valve Gear Type bore/Lever type	8" SS316	Valtronics		30
129	Ball Valve gear Flanged type	8" SS316	Valtronics		5
130	Ball Valve actuator type WCB body	8" SS316	Valtronics		26

131	Ball Valve actuator type CF8M body	8" SS316	Valtronics	14
132	BUTTERFLY VALVE WAFER TYPE(Spring R	8" Automatic	#150	7
133	Side Flow Indicator	10" Glass type	0	10
134	BALL VALVE	10"	#150 FLANGE	12
135	BUTTERFLY C.I VALVE	10"	0	15
136	BUTTERFLY VALVE WAFER TYPE(Spring R	10" Automatic	#150	2
137	CAST IRON BUTTERFLY VALVE DISC	12"	0	0
138	BUTTERFLY C.I VALVE	12"	0	8
139	NODULAR CAST IRON BELLOWS (GLOBE)	12" PN 16	Pcs	2
140	BUTTERFLY VALVE WAFER TYPE(Spring R	12" Automatic	#150	2
141	BUTTERFLY C.I VALVE	24" PN10	#150	10
142	1/2" RUBBER HYDROLIC HOSE	1 Mtr	Pcs	36
143	1/2" RUBBER HYDROLIC HOSE	1.5 Mtr	Pcs	34
144	1/2" RUBBER HYDROLIC HOSE	2 Mtr	Pcs	5
145	1/2" RUBBER HYDROLIC HOSE	3 Mtr	Pcs	12
146	1" RUBBER HYDROLIC HOSE	1 Mtr	Pcs	50
147	1" OIL SUCTION & DISCHARGE HOSE	1 Mtr	Pcs	8
148	1" RUBBER HYDROLIC HOSE	750 mm	Pcs	0
149	SS NPT CONNECTOR FOR HOSE	0	Pcs	124
150	SS BUTTERFLY HANDLE	0	0	11
151	U Syphon 1/2 " NPT SCH 80 MS	0	0	71
152	U Syphon 1/2 " NPT SCH40 SS 304	0	0	77
153	Q Syphon 1/2 " NPT SCH80 CS	0	0	130
154	Q Syphon 1/2 " NPT S S 304 SS	0	0	118
155	NVA, SS 1/2F X 1/2FNPT HARD 6K Valve	0	0	73
156	1" DRV Bronze PN25	PN25	Pcs	3
157	1½" DRV Bronze PN25	PN25	Pcs	1
158	1½" DRV Bronze PN25	PN25	Pcs	2
159	2½" DRV Bronze PN25	PN16	Pcs	1
160	3" DRV CI PN16	PN16	Pcs	1
161	4" DRV CI PN16	PN16	Pcs	1
162	1" Gate Valve Bronze PN20	PN20	Pcs	6
163	1½" Gate Valve Bronze PN20	PN20	Pcs	2
164	2" Gate Valve Bronze PN20	PN20	Pcs	4
165	2½" Gate Valve PN16	PN16	Pcs	2
166	3" Gate Valve PN16	PN16	Pcs	2
167	4" Gate Valve PN16	PN16	Pcs	1
168	M S PIPE	1/2" SCH 40 SEAMLES	IN MTR.	78
169	M S PIPE	3/4" SCH 40 SEAMLES	IN MTR.	120
170	M S PIPE	1" SCH 40 SEAMLES	IN MTR.	120
171	M S PIPE	1 .25 " SCH 40 SEAMLES	IN MTR.	198
172	M S PIPE	1.5 " SCH 40 SEAMLES	IN MTR.	96
173	M S PIPE	2" SCH 40 SEAMLES	IN MTR.	132
174	M S PIPE	3" SCH 40 SEAMLES	IN MTR.	300

175	M S PIPE	4" SCH 40 SEAMLES	IN MTR.	204
176	M S PIPE	5" SCH 40 SEAMLES	IN MTR.	54
177	M S PIPE	6" SCH 40 SEAMLE	IN MTR.	36
178	M S PIPE	8" SCH 40 SEAMLE	IN MTR.	0
179	M S PIPE	10" SCH 40 SEAMLE	IN MTR.	438
180	M S PIPE	12" SCH 40 SEAMLE	IN MTR.	162
181	M S PIPE	18" SCH 40 SEAMLE	IN MTR.	12
182	M S PIPE	24" SCH 40 SEAMLE	IN MTR.	18
183	M S PIPE	40" SCH 17.5mm THICK	IN MTR.	3
184	M S PIPE	2" SCH 80 SEAMLES	IN MTR.	6
185	1" Gi Pipe		0 IN MTR.	228
186	2" Gi Pipe (For electrical use)	10 CM	NOS	6
187	3" Gi Pipe (For electrical use)	6 Mtr	Pcs	19
188	4" Gi Pipe (For electrical use)	4 x 5.8 Mtr	Pcs	40
189	6" Gi Pipe (For electrical use)	6 x 5.8 Mtr	Pcs	6
190	PIPE ERW	1" In Mtr	0	300
191	PIPE ERW	1 ½" IN MTR.	IN MTR.	234
192	PIPE ERW	24" IN MTR.	IN MTR.	10
193	CHIMNEY PIPE	14" In PCS	Pcs	0.5
194	CHIMNEY PIPE	34" In PCS	Pcs	0.5
195	CHIMNEY PIPE	42" In PCS	Pcs	1
196	M S SORF FLANGE	10 " # PN 10	NOS	0
197	M S SORF FLANGE	½" PN 16	NOS	24
198	M S SORF FLANGE	¾ " PN 16	NOS	30
199	M S SORF FLANGE	1 " PN 16	NOS	40
200	M S SORF FLANGE	1 ¼" PN 16	NOS	100
201	M S SORF FLANGE	1 ½" PN 16	NOS	7
202	M S SORF FLANGE	2 " PN 16	NOS	43
203	M S SORF FLANGE	2 ½" PN 16 sch 40	NOS	86
204	M S SORF FLANGE	3 " PN 16	NOS	85
205	M S SORF FLANGE	4 " PN 16	NOS	62
206	M S SORF FLANGE	5 " PN 16	NOS	16
207	M S SORF FLANGE	6 " PN 16	NOS	29
208	M S SORF FLANGE	8 " PN 16	NOS	47
209	M S SORF FLANGE	1/2 " # 150	NOS	148
210	M S SORF FLANGE	1" # 150	NOS	88
211	M S SORF FLANGE	1.5" # 150	NOS	32
212	M S SORF FLANGE	2" # 150	NOS	41
213	M S SORF FLANGE	3" # 150	NOS	14
214	M S SORF FLANGE	4" # 150	NOS	12
215	M S SORF FLANGE	5" # 150	NOS	13
216	M S SORF FLANGE	6" # 150	NOS	92
217	M S SORF FLANGE	8" # 150	NOS	240
218	M S SORF FLANGE	10 " # 150	NOS	26

219	M S SORF FLANGE	12 " # 150	NOS	10
220	M S SORF FLANGE	16 " # 150	NOS	0
221	M S SORF FLANGE	24 " # 150	NOS	4
222	M S SORF FLANGE	1/2 " # 300	NOS	27
223	M S SORF FLANGE	3/4 " # 300	NOS	12
224	M S SORF FLANGE	1.5 " # 300	NOS	8
225	M S SORF FLANGE	2" # 300	NOS	37
226	M S SORF FLANGE	2.5" # 300	NOS	8
227	M S SORF FLANGE	3" # 300	NOS	2
228	M S SORF FLANGE	4" # 300	NOS	0
229	M S SORF FLANGE	5" # 300	NOS	2
230	M S SORF FLANGE	8" # 300	NOS	4
231	M S SORF FLANGE	14" # 300	NOS	0
232	M S WNRF FLANGE	8 " PN 16	NOS	114
233	M S WNRF FLANGE	12" PN 16	0	4
234	M S WNRF FLANGE	2 "	NOS	23
235	M S WNRF FLANGE	3 "	NOS	7
236	M S WNRF FLANGE	4 "	NOS	150
237	M S WNRF FLANGE	6 "	NOS	10
238	M S WNRF FLANGE	8 "	NOS	264
239	M S WNRF FLANGE	12 "	NOS	16
240	M S WNRF FLANGE	2 " #300	NOS	0
241	M S WNRF FLANGE	4" #300	NOS	46
242	M S WNRF FLANGE	8 " #300	NOS	5
243	M S WNRF FLANGE	18 " # 300	NOS	2
244	M S BLIND FLANGE	3/4" # P N 16	NOS	10
245	M S BLIND FLANGE	1/2" # 150	NOS	108
246	M S BLIND FLANGE	1" # 150	NOS	26
247	M S BLIND FLANGE	1 1/2" # 150	NOS	14
248	M S BLIND FLANGE	2" # 150	NOS	1
249	M S BLIND FLANGE	3" # 150	NOS	40
250	M S BLIND FLANGE	4" # 150	NOS	43
251	M S BLIND FLANGE	5" # 150	NOS	0
252	M S BLIND FLANGE	6" # 150	NOS	22
253	M S BLIND FLANGE	8" # 150	NOS	4
254	M S BLIND FLANGE	10 " # 150	NOS	1
255	M S BLIND FLANGE	12 " # 150	NOS	0
256	M S BLIND FLANGE	16 " # 150	NOS	76
257	M S BLIND FLANGE	24 " # 150	NOS	8
258	M S BLIND FLANGE	8 " # 300	NOS	2
259	M S BLIND FLANGE	18 " # 300	NOS	0
260	M S BLIND FLANGE	24 " # 300	NOS	0
261	M S BLIND FLANGE (1/2" NPT THREADED	1 " # 150	0	30
262	M S BLIND FLANGE (1/2" NPT THREADED	1 1/2" # 150	0	30

263	CROSS TEE/SCH 40	6"	NOS	2
264	EQUAL TEE/SCH 40	1/2"	NOS	47
265	EQUAL TEE/SCH 40	1"	NOS	68
266	EQUAL TEE/SCH 40	2"	NOS	28
267	EQUAL TEE/SCH 40	3"	NOS	6
268	EQUAL TEE/SCH 40	4"	NOS	88
269	EQUAL TEE/SCH 40	6"	NOS	67
270	EQUAL TEE/SCH 40	8"	NOS	98
271	EQUAL TEE/SCH 40	10"	NOS	86
272	EQUAL TEE/SCH 40	24"	NOS	0
273	UNEQUAL TEE	1"x 1/2"	NOS	31
274	UNEQUAL TEE	4"x2 1/2"	NOS	4
275	UNEQUAL TEE	4" X 3"SEAML.	NOS	41
276	UNEQUAL TEE	5"x4"	NOS	0
277	UNEQUAL TEE	6"x4"	NOS	3
278	UNEQUAL TEE	8"x4"	NOS	6
279	UNEQUAL TEE	8"x6"	NOS	46
280	UNEQUAL TEE	10"x8"	NOS	0
281	ECC REDUCER	3" X 2"	NOS	1
282	ECC REDUCER	5" X 4"	NOS	8
283	ECC REDUCER	6" X 4"	NOS	62
284	ECC REDUCER	6" X 5"	NOS	0
285	ECC REDUCER	8" X 6"	NOS	30
286	ECC REDUCER	8" X 4"	NOS	2
287	ECC REDUCER	14" X 8"	NOS	2
288	ECC REDUCER	18" X 12"	NOS	0
289	CONIC.REDUCER 1.5" X 1"	1.5" X 1"	NOS	9
290	CONIC.REDUCER 2"x 1.5"	2" X 1.5"	NOS	2
291	CONIC.REDUCER 2.5" X 2"	2.5" X 2"	NOS	30
292	CONIC.REDUCER 3 " X 2"	3" X 2"	NOS	19
293	CONIC.REDUCER 4 " X 2"	4 " X 2"	NOS	10
294	CONIC.REDUCER 4 " X 2.5"	4 " X 2.5"	NOS	24
295	CONIC.REDUCER 4 " X 3"	4 " X 3"	NOS	3
296	CONIC.REDUCER 5 " X 4"	5 " X 4"	NOS	57
297	CONIC.REDUCER 6 " X 2"	6 " X 2"	NOS	22
298	CONIC.REDUCER 6 " X 3"	6 " X 3"	NOS	15
299	CONIC.REDUCER 6 " X 4"	6 " X 4"	NOS	2
300	CONIC.REDUCER 6 " X 5"	6 " X 5"	NOS	0
301	CONIC.REDUCER 8 " X 6"	8 " X 6"	NOS	4
302	CONIC.REDUCER 8" X 2"	8 " X 2"	NOS	7
303	CONIC.REDUCER 10 " X 6"	10" X 6"	NOS	8
304	CON.REDUCER 10" X8"	10" X8"	NOS	7
305	CON.REDUCER 12" X8"	12" X8"	NOS	0
306	CON.REDUCER 14" X8"	14" X8"	NOS	0

307	CON.REDUCER 24" X20"	24" X20"	NOS	0
308	CON.REDUCER 28" X24"	28" X24"	NOS	0
309	ELBOW 180 DEG./SCH40	2"	NOS	39
310	ELBOW 180 DEG./SCH40	4"	NOS	8
311	ELBOW 90 DEG./SCH40	1" 3000	NOS	20
312	ELBOW 90 DEG./SCH40	1/2"	NOS	18
313	ELBOW 90 DEG./SCH40	3/4"	NOS	57
314	ELBOW 90 DEG./SCH40	1"	NOS	2
315	ELBOW 90 DEG./SCH40	1 1/4"	NOS	33
316	ELBOW 90 DEG./SCH40	1.5"	NOS	0
317	ELBOW 90 DEG./SCH40	1" Hand rail	NOS	25
318	ELBOW 90 DEG./SCH40	1.5" Hand rail	NOS	0
319	ELBOW 90 DEG./SCH40	2"	NOS	76
320	ELBOW 90 DEG./SCH40	3"	NOS	19
321	ELBOW 90 DEG./SCH40	4"	NOS	41
322	ELBOW 90 DEG./SCH40	6"	NOS	151
323	ELBOW 90 DEG./SCH40	8"	NOS	24
324	ELBOW 90 DEG./SCH40 SR	8" SR	NOS	42
325	ELBOW 90 DEG./SCH40	10"	NOS	69
326	ELBOW 90 DEG./SCH40	12"	0	16
327	ELBOW 90 DEG./SCH40 SR	24"	NOS	1
328	ELBOW 90 DEG./SCH40 LR	24"	NOS	3
329	ELBOW 90 DEG 2"NPT 3000 A105N	2"	0	0
330	GI ELBOW 90 DEG./SCH40	1" #150	NOS	48
331	GI ELBOW 90 DEG./SCH20 F Threaded	2" #150	NOS	30
332	GI ELBOW 90 DEG./SCH40	3" #150	NOS	34
333	GI ELBOW 90 DEG. SR /SCH40 F Threaded	3" #150	NOS	10
334	GI ELBOW 90 DEG./SCH40 F Threaded	4" #150	NOS	10
335	GI ELBOW 45 DEG./SCH20 F Threaded	2" #150	NOS	30
336	ELBOW	1"-45 DEG.SEAM.	NOS	5
337	ELBOW	1 1/4"-45 DEG.SEAM.	0	26
338	ELBOW	1.5 " -45 DEG,SEAM	0	22
339	ELBOW	2"-45 DEG.SEAM.	NOS	1
340	ELBOW	3"-45 DEG.SEAM.	NOS	16
341	ELBOW	4"-45 DEG.SEAM.	NOS	0
342	ELBOW	6"-45 DEG.SEAM.	NOS	14
343	ELBOW	8"-45 DEG.SEAM.	NOS	11
344	ELBOW	10"-45 DEG.SEAM.	NOS	18
345	ELBOW	12"-45 DEG.SEAM.	NOS	6
346	ELBOW	24"-45 DEG.SEAM.	NOS	10
347	G I U CLAMP	6 X 1"	NOS	149
348	G I U CLAMP	6 X 1 1/2"	0	93
349	G I U CLAMP	8 X 2"	NOS	155
350	G I U CLAMP	8 X 2.5"	NOS	0

351	G I U CLAMP	8 X 3"	NOS	155
352	G I U CLAMP	8 X 4"	NOS	381
353	G I U CLAMP	8 X 5"	NOS	0
354	G I U CLAMP	8 X 6"	NOS	349
355	G I U CLAMP	8 X 10"	NOS	26
356	G I U CLAMP	8 X 12"	NOS	0
357	G I U CLAMP	8 " U CLAMP	NOS	68
358	G I U CLAMP	12 X 4" X170 MM LE.	NOS	0
359	M S EQUAL ANGLE	25 X25 X3.7 mm x6mtr.	0	0
360	M S EQUAL ANGLE	30X30X4.0mmX6mtr	pcs	0
361	M S EQUAL ANGLE	40X40X4.0mmX6mtr	pcs	0
362	M S EQUAL ANGLE	50X50X5.0mmX6mtr	pcs	0
363	M S EQUAL ANGLE	60X60X6mmX6mtr	NOS	0
364	M S EQUAL ANGLE	60X60X8mmX12mtr	NOS	0
365	M S EQUAL ANGLE	65 X65 X5 MMX6MTR.	NOS	46
366	M S EQUAL ANGLE	100X100 X7mmX6MTR.	NOS	39
367	M S EQUAL ANGLE	125X125X8mmX12mtr	NOS	0
368	M S FLAT BAR	50 X 5MM X6MTR.	NOS	50
369	M S FLAT BAR	50 X 3MM X6MTR.	NOS	0
370	M S FLAT BAR	30 X 5MM X6MTR.	NOS	45
371	M S FLAT BAR	75x20mmx6Mtr	NOS	0
372	M S FLAT BAR	100X5mmX6mtr	NOS	50
373	M S FLAT BAR	100X10mmX6mtr	NOS	0
374	M S U CHANNEL	75x40x4mm	0	0
375	MS CHANEL	100 X 50 X6 MTR	0	200
376	MS CHANEL	100 X 50 X12 MTR	0	0
377	M S U CHANNEL	100 X 100 X6 MTR	NOS	0
378	M S U CHANNEL	125 X65X5MMX6MTR.	NOS	0
379	MS CHANEL	150x75x24Kgx6Mtr	NOS	27
380	MS CHANEL	150x75x24Kgx12Mtr	NOS	22
381	MS CHANEL	200X90X30.3KX12mtr	NOS	0
382	M S U CHANNEL	250X90XmmX12mtr	NOS	6
383	M S U CHANNEL	219mm X4mmX 12 Mtr	NOS	0
384	08 mm MS PLATE	08mmX2mtrX12mtr	NOS	4
385	10 mm MS PLATE	10mmX2.25mtrX12mtr	NOS	1
386	10 mm MS PLATE	10mmX3.05mmX1000mm	NOS	0
387	10 mm MS PLATE	10mmX3.05mmX8300mm	NOS	0
388	10 mm MS PLATE	10mmX3mtrX12000mm	0	1
389	10 mm MS PLATE	2.5 X 12 mtr X 10 mm	NOS	2
390	10 mm MS PLATE	3mtrX12mtrX10mm	NOS	0
391	12 mm MS PLATE	12mmX3050mmX12mtr	NOS	0
392	12 mm MS PLATE	12mmX2500mmX12mtr	NOS	0
393	16 mm MS PLATE	16mmX2500mmX12mtr	NOS	6
394	16 mm MS PLATE	16mmX1.7mtrX12mtr	NOS	0

395	16 mm MS PLATE	2.5mtrX12mtrX16mm	NOS	0
396	16 mm MS PLATE	3mtrX12mtrX16mm	NOS	0
397	20 mm MS PLATE	20mm X 2mtr X 6mtr	NOS	2
398	20 mm MS PLATE	20mmx1900mmx10mtr	NOS	1
399	20 mm MS PLATE	20mmx3050mmx8mtr	0	1
400	20 mm MS PLATE	20mmx2500mmx12mtr	0	1
401	20 mm MS PLATE	20mmx3050mmx10370mm	0	0
402	20 mm MS PLATE	20mmx 3 mtrx4350	NOS	1
403	25 mm MS PLATE	2500mmX12mtrX25mm	NOS	2
404	25 mm MS PLATE	2MtrX06mtrX25mm	NOS	0
405	25 mm MS PLATE	25mm X 2.5MtrX7900mm	NOS	0
406	25 mm MS PLATE	25mmX3Mtrx2500mm	0	0
407	30 mm MS PLATE	3MtrX10370mtrX30mm	NOS	0
408	30 mm MS PLATE	30mmx3mtrx12mtr	0	1
409	36 mm MS PLATE	36mm x 3 mtr 7000mm	0	0.5
410	36 mm MS PLATE	36mm x 3 mtr 2200mm	0	0
411	48 mm MS PLATE	48mm x 3mtrx 2500mm	0	0
412	65 mm MS PLATE	65mm X 2Mtr X 6Mtr	NOS	0
413	UB BEEM	127 X 76 X 12 Mtr	NOS	10
414	UB BEEM	178 X 102 X 12 Mtr	NOS	8
415	I P E BEAM	180X91X12 Mtr.	0	15
416	UB BEEM	203x133x25kgx12mtr	NOS	1
417	UB BEEM	254X146X31kgX12mtr	0	20
418	UB BEEM	305X127X48kgX12mtr	NOS	3
419	UB BEEM	356x171x67kgx12mtr	NOS	1
420	UB BEEM & I BEAM	406X140X12mtr	0	8
421	UB BEEM	457X191X12mtr	0	0
422	UB BEEM	533X210X122 KgX 12Mtr	0	2
423	H BEEM	250X250mmX12mtr	NOS	1
424	H BEEM	254X254mmX12mtr	NOS	1
425	U COLUMN	254X254mmX12mtr	NOS	0
426	U COLUMN	203x203x46KgX12Mtr	0	16
427	M S BARAL NIPPLE SS	10 CM	NOS	30
428	M S BARAL NIPPLE SS	1"X6"	Nos	15
429	M S BARAL NIPPLE SS	1/2"X6"	Nos	49
430	M S NPT BARAL NIPPLE SHC40	30 cm Long	0	0
431	M S NPT BARAL NIPPLE SHC40	3" X 150 mm Long	0	0
432	MS SOCKET ELBOW	1/2 NPT Elbow Type	Nos	156
433	MS COUPLING (SOCKET)	1/2 " 3000	0	87
434	GI COUPLING (SOCKET)	3/4 "# 3000	0	8
435	MS COUPLING (SOCKET)	3/4 "# 3000	0	20
436	MS COUPLING (SOCKET)	1" #3000	0	18
437	MS COUPLING (SOCKET)	3"	0	5
438	GI COUPLING (SOCKET)	3" #3000	0	1

439	GI COUPLING (SOCKET)	1/2" 3000	0	10
440	Caps	1½"	0	6
441	MS PLUG	1/2 NPT	0	0
442	GI HEX Nipple	1/2" NPT 3000	0	17
443	GI HEX Nipple	3/4" NPT 3000	0	19
444	GI HEX Nipple	1" NPT 3000	0	0
445	MS Barrel Nipple	½" 100 LONG	0	92
446	G I Barrel Nipple	1" 40X150 LONG	0	49
447	G I Barrel Nipple	3" 40X150 LONG	0	27
448	GI GRATING	25X4.5 mm 3X20 41X100	0	0
449	GI GRATING	25 X 6 mm 41X 100	NOS	60
450	MS CHEQUERED PLATE	5x20x4.7 mm	0	60
451	MS CHEQUERED PLATE	1.5 X 6 X 6mm	0	80
452	MS SHS (SQUARE TUBE)	100x100x4mm x 6 Mtr	0	12
453	MS SHS (SQUARE TUBE)	100x100x6mm x 6 Mtr	0	4
454	MS SHS (SQUARE TUBE)	125x125x6mm x 6 Mtr	0	10
455	MS SHS (SQUARE TUBE)	150 X 150 X12 mmX12 Mtr	0	0
456	MS SHS (SQUARE TUBE)	160 X 160 X10 mmX12 Mtr	0	0
457	DISH END 1016 mm	14 mm	0	0
458	HOLLOW SECTION	150x150x12mmx12Mtr	0	0
459	EXP.METAL SHEET-Grating	4X8X6 mm	0	0

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SS ITEMS PLANT

S.NO	ITEM	SIZE	CLASS/TYPE	BALANCE STOCK
1	PIPE SMLS	1/2" IN MTR.	316/316	306
2	PIPE SMLS	1/2" IN MTR.	304/304	0
3	PIPE SMLS	3/4" IN MTR.	304/304	54
4	PIPE SMLS	1" IN MTR.	0	180
5	PIPE SMLS	1 1/2" IN MTR.	304/304	150
6	PIPE SMLS	2" IN MTR.	304/304	108
7	PIPE SMLS	2.5" IN MTR.	316/316	4
8	PIPE SMLS	3" IN MTR.	0	30
9	PIPE SMLS	3" IN MTR.	316/316	120
10	PIPE SMLS	4" IN MTR.	304/304	222
11	PIPE SMLS	4" IN MTR.	0	0
12	PIPE SMLS	5" IN MTR.	0	6
13	PIPE SMLS	6" IN MTR.	304/304	192
14	PIPE SMLS	6" IN MTR.	316-316	120
15	PIPE SMLS	8" IN MTR.	0	210
16	PIPE	6" SCH 10 IN MTR	0	0
17	PIPE	8" SCH 10 IN MTR	0	0
18	PIPE ERW	1" IN MTR.	0	0
19	PIPE ERW	3" IN MTR.	0	264
20	PIPE ERW	4" IN MTR.	0	200
21	PIPE ERW	6" IN MTR.	0	378
22	PIPE ERW	8" IN MTR.	304	120
23	PIPE ERW	8" IN MTR.	316	0
24	PIPE ERW	10" IN MTR.	0	174
25	PIPE ERW	12" IN MTR.	304	18
26	PIPE ERW	14" IN MTR.	0	12
27	PIPE ERW	18" IN MTR.	0	23
28	PIPE ERW SHJ OMAN	PCS	0	0
29	FLANGE SO RF	3/4"	PN 16	25
30	FLANGE SO RF	1.5"	PN 16	24
31	FLANGE SO RF	2"	PN 16	0
32	FLANGE SO RF	2" 316/316L	PN 16	6
33	FLANGE SO RF	2.5"	PN 16	20
34	FLANGE SO RF	2.5" 316/316 L	PN 16	60
35	FLANGE SO RF	3" 304	PN 16	44
36	FLANGE SO RF	3" 316/316L	PN 16	22
37	FLANGE SO RF	4" 316 L/316L	PN 16	23
38	FLANGE SO RF	5" 304/304L	PN 16	18
39	FLANGE SO RF	5" 316/316L	PN 16	33
40	FLANGE SO RF	6" 304/304L	PN 16	0
41	FLANGE SO RF	6" 316/316L	PN 16	20
42	FLANGE SO RF	8" 316/316L	PN 16	16
43	FLANGE WNRF	2.5 " 304/304	PN 16	10
44	FLANGE SO RF	1/2" 304/304	0	0
45	FLANGE SO RF	½" 316/316	0	0
46	FLANGE SO RF	1" 304/304	150	0

47	FLANGE SO RF	1" 316/316L	0	30
48	FLANGE SO RF	1.5"	150	3
49	FLANGE SO RF	2"	0	0
50	FLANGE SO RF	2"	316L/316L	29
51	FLANGE SO RF	2.5"	304/304	0
52	FLANGE SO RF	2.5"	316/316	2
53	FLANGE SO RF	3"	# 150	0
54	FLANGE SO RF	3" 316/316	# 150	107
55	FLANGE SO RF	4"	# 150	0
56	FLANGE SO RF	4" 316/316	# 150	0
57	FLANGE SO RF	5" 316/316L	# 150	10
58	FLANGE SO RF	6"	# 150	54
59	FLANGE SO RF	6" 316/316L	# 150	114
60	FLANGE SO RF	8"	# 150	0
61	FLANGE SO RF	8" 316/316L	# 150	40
62	FLANGE SO RF	10 "	# 150	0
63	FLANGE SO RF	10 " 316/316L	# 150	6
64	FLANGE SO RF	12 " 304/304	# 150	2
65	FLANGE SO RF	12 " 316/316	# 150	18
66	FLANGE SO RF	14 "	# 150	4
67	FLANGE SO RF	18 "	# 150	4
68	FLANGE SO RF	24 " 304/304	# 150	0
69	FLANGE SO RF	24 " 316/316	# 150	2
70	FLANGE SO RF	12" ERW	0	0
71	FLANGE SO RF	3"	# 300	24
72	FLANGE SO RF	3" 316/316	# 300	9
73	FLANGE SO RF	5"	# 300	23
74	FLANGE SO RF	5" 316/316	# 300	12
75	FLANGES FROM SHJ OMA		0	0
76	FLANGE WNRF	6 " 304 Sch 10	Sch 10	20
77	FLANGE WNRF	3 " 304/304	# 150	15
78	FLANGE WNRF	4" 316/316	316L/316L	67
79	FLANGE WNRF	6 " 316	# 150	63
80	FLANGE WNRF	8 " 316	# 150	6
81	FLANGE BLIND	1/2" 304	# 150	0
82	FLANGE BLIND	1/2" 316	0	20
83	FLANGE BLIND	1"	# 150	0
84	FLANGE BLIND	1" 316	0	85
85	FLANGE BLIND	1 1/2" 316	# 150	27
86	FLANGE BLIND	2" 304	# 150	10
87	FLANGE BLIND	2" 316/316L	0	17
88	FLANGE BLIND	3" 316/316L	# 150	20
89	FLANGE BLIND	4" 304	# 150	7
90	FLANGE BLIND	4" 316	# 150	15
91	FLANGE BLIND	5"	# 150	0
92	FLANGE BLIND	6"	# 150	0
93	FLANGE BLIND	6" 316	# 150	12
94	FLANGE BLIND	8"	# 150	41

95	FLANGE BLIND	10" 304	# 150	0
96	FLANGE BLIND	10" 316	# 150	9
97	FLANGE BLIND	12"	# 150	6
98	FLANGE BLIND	18"	# 150	8
99	FLANGE BLIND	24"	# 150	3
100	EQ TEE	1/2 "	316/316L	100
101	EQ TEE	1"	0	40
102	EQ TEE	1 ½" 316/316	150	5
103	EQ TEE	2"	0	17
104	EQ TEE	3"	304	6
105	EQ TEE	3"	316	10
106	EQ TEE	4"	0	120
107	EQ TEE	6"	304/304	4
108	EQ TEE	6"	316/316	28
109	EQ TEE	8"	0	39
110	EQ TEE	10"	0	0
111	EQ TEE	10" Shc 80	0	1
112	EQ TEE	12" 316/316	0	0
113	TEE REDUCER	4 " X 3" 304/304	304	15
114	TEE REDUCER	4 " X 3" 316/316	316	13
115	TEE REDUCER	6" X 3"	316/316L	0
116	TEE REDUCER	6" X 4"	304L/304	7
117	TEE REDUCER	6" X 4"	316L/316L	43
118	TEE REDUCER	8" X 6"	304/304L	6
119	TEE REDUCER	8" X 6"	316L/316L	0
120	ECC REDUCER	2.5 x 6	0	8
121	ECC REDUCER	5" X 4"	0	10
122	ECC REDUCER	6" X 4" 316	316L/316L	54
123	ECC REDUCER	8"X 4"	316L/316L	0
124	ECC REDUCER	8"X 6"	0	3
125	ECC REDUCER	10"X 6"	304/304	23
126	ECC REDUCER	12"X 6"	316L/316L	2
127	ECC REDUCER	12 X 8	0	2
128	ECC REDUCER	18 X 12	0	0
129	CON REDUCER	1 X 1/2	0	14
130	CON REDUCER	1.5" X 1"	0	28
131	CON REDUCER	2" X 1"	304/304	8
132	CON REDUCER	3" X 2"	0	17
133	CON REDUCER	3" X 2 ½"	304/304	4
134	CON REDUCER	3" X 2 ½"	316/316	0
135	CON REDUCER	4" X 1 1/5"	0	0
136	CON REDUCER	4" X 2" 304/304	0	0
137	CON REDUCER	4" X 2" 316/316	0	4
138	CON REDUCER	4" X 2 ½"	0	20
139	CON REDUCER	4" X 2 ½" 316/316L	316/316L	19
140	CON REDUCER	4 " X 3"	40S	0
141	CON REDUCER	4 " X 3" 316	0	2
142	CON REDUCER	5"X4 "	0	107

143	CON REDUCER	6x 2.5		0	5
144	CON REDUCER	6x 3		0	37
145	CON REDUCER	6" x 3" 316/316	# 150		29
146	CON REDUCER	6"X 4"		0	21
147	CON REDUCER	6"X 5"		0	11
148	CON REDUCER	8"X 4"		0	2
149	CON REDUCER	8"X 6"		0	10
150	CON REDUCER	8"X 6" 316		0	7
151	ELBOW 90LR	1/2"		0	0
152	ELBOW 90LR	3/4"		0	50
153	ELBOW 90LR	1" 304/304L		0	34
154	ELBOW 90LR	1" 316/316L		0	68
155	ELBOW 90LR	1.5" 304/304		0	23
156	ELBOW 90LR	1.5" 316/316		0	58
157	ELBOW 90LR	2"		0	5
158	ELBOW 90LR	2"	316L/316L		7
159	ELBOW 90LR	2.5"	316L/316L		16
160	ELBOW 90LR	3"		304	2
161	ELBOW 90LR	3"	316L/316L		36
162	ELBOW 90LR	4"		0	48
163	ELBOW 90LR	4"	316L/316L		47
164	ELBOW 90LR	6"	304/304		0
165	ELBOW 90SR	6"	304/304		53
166	ELBOW 90LR&SR	6"	316L/316L		48
167	ELBOW 90LR	8" Sch 40	316L/316L		10
168	ELBOW 90LR	8" Sch 40	304/304		36
169	ELBOW 90SR	8" Sch 40	304/304		79
170	ELBOW 90LR	10" Sch 40 LR	304/304		23
171	ELBOW 90SR	10" Sch 40 SR	304/304		9
172	ELBOW 90LR	12" LR	304/304		35
173	ELBOW 90LR	12" SR	304/304		3
174	ELBOW 90LR	12" ERW		0	0
175	ELBOW 90LR	24" ERW		0	4
176	ELBOW 45 LR	1" 316/316		0	40
177	ELBOW 45 LR	1" 304/304		0	5
178	ELBOW 45 LR	1.5"	304/304		13
179	ELBOW 45 LR	1.5"	316/316		9
180	ELBOW 45LR	2"		0	1
181	ELBOW 45LR	2"		0	0
182	ELBOW 45LR	3"		0	51
183	ELBOW 45LR	3" 316/316		0	18
184	ELBOW 45LR	4"		0	230
185	ELBOW 45LR	4"	316/316L		0
186	ELBOW 45LR	6"		0	3
187	ELBOW 45LR	6" 316/316L	316/316L		0
188	ELBOW 45LR	8"		0	48
189	ELBOW 45LR	8"	316/316L		11
190	ELBOW 45LR	10"	304/304		21
191	ELBOW 45LR	12"	304/304		14

192	SS U CLAMP	1/2"		0	200
193	SS U CLAMP	1"		0	86
194	SS U CLAMP	1.5"		0	0
195	SS U CLAMP	2"		0	82
196	SS U CLAMP	3"		0	12
197	SS U CLAMP	4"		0	1
198	SS U CLAMP	5"		0	0
199	SS U CLAMP	6"		0	11
200	SS U CLAMP	8"		0	4
201	SS U CLAMP	10"		0	56
202	SS U CLAMP	12"		0	75
203	GASKET S S 316	1/2"	# 150		24
204	GASKET S S 316	1"	# 150		47
205	GASKET S S 316	1.5"	# 150		16
206	GASKET S S 316	2"	# 150		303
207	GASKET S S 316	2.5"	# 150		75
208	GASKET S S 316	3"	# 150		5
209	GASKET S S 316	4"	# 150		1144
210	GASKET S S 316	5"	# 150		12
211	GASKET S S 316	6"	# 150		1267
212	GASKET S S 316	8"	# 150		40
213	GASKET S S 316	10"	# 150		78
214	GASKET S S 316	24"	# 150		27
215	GASKET S S 316	1/2"	#300		20
216	GASKET S S 316	3/4"	#300		20
217	GASKET S S 316	1 1/2"	#300		75
218	GASKET S S 316	2"	#300		58
219	GASKET S S 316	3"	#300		72
220	GASKET S S 316	5"	#300		78
221	GASKET S S 316	8"	#300		19
222	GASKET S S 316	18"	#300		14
223	GASKET S S 316	1/2"	P N 16		20
224	GASKET S S 316	3/4"	P N 16		20
225	GASKET S S 316	1 "	P N 16		47
226	GASKET S S 316	1 1/4"	P N 16		78
227	GASKET S S 316	1 1/2"	P N 16		20
228	GASKET S S 316	2"	P N 16		30
229	GASKET S S 316	2.5"	P N 16		8
230	GASKET S S 316	3"	P N 16		81
231	GASKET S S 316	4"	P N 16		74
232	GASKET S S 316	5"	P N 16		97
233	GASKET S S 316	6"	P N 16		99
234	GASKET S S 317	8"	P N 16		160
235	GASKET S S 318	12"	P N 16		41
236	SS Tanged Graphite Gas	3/4"		0	24
237	SS Tanged Graphite Gas	1"		0	19
238	SS Tanged Graphite Gas	1 1/2"		0	10
239	SS Tanged Graphite Gas	2"	RF2mm PN40		141
240	SS Tanged Graphite Gas	3"	RF2mm PN40		100

241	SS Tanged Graphite Gas	4"	RF2mm PN40	106
242	SS Tanged Graphite Gas	5"	0	11
243	SS Tanged Graphite Gas	6"	RF2mm PN40	22
244	SS Tanged Graphite Gas	8"	RF2mm PN40	17
245	SS Tanged Graphite Gas	10"	RF2mm PN40	20
246	S S EQUAL ANGLE	25 x 25 x 4mm x 6 Mtr	0	0
247	S S EQUAL ANGLE	25 x 25 x 3mm x 6 Mtr	0	3
248	FLAT BAR S S	25 x 4mm x 6 Mtr	0	0
249	FLAT BAR S S	50 X5MMX6MTR	NOS.	3
250	FLAT BAR S S	50 X10MMX6MTR	NOS.	0
251	SS CHANNEL G316L	100X50X6X6	NOS.	2
252	½" Hex Nipple	½"	NOS.	29
253	BARAL NIPPLE SS	1X6"	0	144
254	BARAL NIPPLE SS	¾"x 6"	0	35
255	BARAL NIPPLE SS	1/2" X 6" 304	304	55
256	INSIDE THREADED SOCKET	1/2 NPT	0	311
257	Caps	1½"	304	8
258	SS Scket CPLG	1/2" NPT	0	0
259	SS SOCKET	¾" NPT	0	48
260	SS CHECHER PLATE	3mmTKSX1219X2438	0	0
261	SS SHEET	3mm X 2Mtr X 6Mtr	0	0
262	SS PLATE	25mmX500X2500 Len	0	1
263	SS PLATE	10mmX2000X2525 Len	0	0
264	SS PLATE	10mmX1470X3055 Len	0	0
265	SS PLATE	10mmX2 MtrX2.5 Mtr Len	0	0
266	SS PLATE	10X2510X12000 mm Len	0	0
267	SS PLATE	8 X 1219 X 2438 mm	0	0
268	SS PLATE	10mm FOR PIPE	SHJ OMAN	0
269	SS PLATE	25mm FOR FLANGE	SHJ OMAN	0
270	DISH END	400mm x 16 mm thick	0	0
271	SS PLATE	5000X2060X10 MM	FAB TECH	0
272	SS PLATE	9450X1330X10MM	FAB TECH	0
273	S S CUT PLATES	8mm x 1.2 x 2.1 mtr	0	0
274	S S CUT PLATES	10mm x2 x 1.5 mtr	0	0
275	S S CUT PLATES	16mm x 12 x 3 mtr	0	1

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MS ITEMS (TERMINAL)				
S.NO	ITEM	SIZE	CLASS/TYPE	BALANCE STOCK
1	PIPE SMLS	1" IN MTR.	0	0
2	PIPE SMLS	2" IN MTR.	0	0
3	PIPE SMLS	4" IN MTR.	0	12
4	PIPE SMLS	6" IN MTR.	0	1020.65
5	PIPE SMLS	8" IN MTR.	0	0
6	FLANGE SORF	1"	0	0
7	FLANGE SORF	2"	#150	11
8	FLANGE SORF	2.5"	#150	2
9	FLANGE SORF	3"	#150	0
10	FLANGE SORF	4"	#150	8
11	FLANGE SORF	6"	#150	0
12	FLANGE SORF	8"	#150	0
13	FLANGE WNRF	2"	#150	26
14	FLANGE WNRF	4"	#150	0
15	FLANGE WNRF	8"	#150	50
16	FLANGE BLRF	2"	#150	7
17	FLANGE BLRF	4"	#150	10
18	FLANGE BLRF	6"	#150	11
19	FLANGE BLRF	8"	#150	1
20	ELBOW 90 LR	3/4" SW	#3000	7
21	ELBOW 90 LR	1" SW	#3000	30
22	ELBOW 90 LR	2"	0	14
23	ELBOW 90 LR	4"	0	0
24	ELBOW 90 LR	6"	0	56
25	ELBOW 90 LR	8"	#150	378
26	ELBOW 45 LR	4" Sch40	0	221
27	ELBOW 45 LR	6" Sch40	0	3
28	ELBOW 45 LR	8" SCh40	0	22
29	ELBOW 45 LR	8" Sch80	0	20
30	EQUAL TEE	4" Sch40	0	17
31	EQUAL TEE	6" Sch40	0	59
32	EQUAL TEE	8" Sch40	0	96
33	REDUCER TEE	6"/4"	0	26
34	REDUCER TEE	8"/6"	0	0
35	ECC. REDUCER	4"/2"	Sch 40	11
36	ECC. REDUCER	4"/2.5"	Sch 40	2
37	ECC. REDUCER	4"/3"	Sch 40	4
38	ECC. REDUCER	8"/4"	0	11
39	ECC. REDUCER	8"/6"	0	18
40	CON. RED.	12"/8"	0	6
41	½ BALL VALVE	SS TRIM	#800	0
42	1" BALL VALVE A216	SS TRIM	#150	62
43	1" BALL VALVE A105	SS TRIM	#800	73
44	1" BALL VALVE A182	SS TRIM	#800	5
45	1" NRV (CHECK VALVE) A105	0	#150	7
46	1" NRV (CHECK VALVE) A105	0	#800	54
47	1" NRV (CHECK VALVE) A182	SS BODY	#800	2
48	6" BALL VALVE A216	SS TRIM	#150	38
49	6" BALL VALVE A351	SS TRIM	#150	0
50	6" NRV (CHECK VALVE) A216	0	#150	14
51	6" NRV (CHECK VALVE) S S	S S TRIM 304	0	5
52	8" BALL VALVE A216	SS TRIM	#150	14
53	8" Gate Valve A216	0	#150	0
54		0	0	0
55		0	0	0

SS ITEMS (TERMINAL)

	ITEM	SIZE	CLASS/TYPE	BALANCE STOCK
S.NO				
1	PIPE SMLS	1" IN MTR.	S40 316L	0
2	PIPE ERW	4" IN MTR.	S10 316L	30
3	PIPE ERW	6" IN MTR.	S10 316L	48
4	PIPE ERW	8" IN MTR.	S10 316L	90
5	FLANGE SORF	6"	#150	8
6	FLANGE WNRF	3"	S10 316L	2
7	FLANGE WNRF	4"	S10 316L	53
8	FLANGE WNRF	5"	S10 316L	2
9	FLANGE WNRF	6" SCH 10	S10 316L	0
10	FLANGE WNRF	8"	S10 316L	4
11	FLANGE BLIND	6"	316L	4
12	FLANGE BLIND	8"	316L	4
13	ELBOW 90LR	4"	S10 316L	22
14	ELBOW 90LR	6"	S10 316L	94
15	ELBOW 90LR	8"	S10 316L	4
16	ELBOW 45LR	6"	S10 316L	82
17	EQ TEE	4"	316L	24
18	EQ TEE	6"	316L	0
19	EQ TEE	8"	316L	2
20	TEE REDUCER	6" X 4"	S10 316L	5
21	TEE REDUCER	8" X 6"	S10 316L	13
22	CON REDUCER	6" X 4"	S40 316L	11
23	ECC REDUCER	4" X 3"	S10 316L	2
24	ECC REDUCER	5" X 4"	S10 316L	2
		0	0	0