

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
1	1.9.1	P019-01	MOTOR	SUBMERS-PUMP	MCC1	SOFT STARTER	SUB- PUMP	88	110	3	0.86	200.67	1	95.65	111.22
2	1.9.2	P019-02	MOTOR	SUBMERS-PUMP	MCC1	SOFT STARTER		88	110	3	0.86	200.67	1	95.65	111.22
3	1.9.3	P019-03	MOTOR	SUBMERS-PUMP	MCC1	SOFT STARTER		88	110	3	0.86	200.67	1	95.65	111.22
4	1.9.4	P019-04	MOTOR	SUBMERS-PUMP	MCC1	SOFT STARTER		88	110	3	0.86	200.67	1	95.65	111.22
5	1.9.5	P019-05	MOTOR	SUBMERS-PUMP	MCC1	SOFT STARTER		88	110	3	0.86	200.67	1	95.65	111.22
6	1.9.6	P019-06	MOTOR	SUBMERS-PUMP	MCC1	SOFT STARTER		88	110	3	0.86	200.67	1	95.65	111.22
7	2.2.1	P022-01	MOTOR	SUBMERS-MIXER	MCC1	DOL	EQUALIZATION TANK	4.4	5.5	3	0.86	10.03	1	4.78	5.56
8	2.2.2	P022-02	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.86	10.03	1	4.78	5.56
9	2.2.3	P022-03	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.86	10.03	1	4.78	5.56
10	2.2.4	P022-04	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.86	10.03	1	4.78	5.56
11	2.2.5	P022-05	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.86	10.03	0	0.00	0.00
12	2.2.6	P022-06	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.82	11.66	1	5.30	6.46
13	2.2.7	P022-07	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.80	11.15	1	4.94	6.18
14	2.2.8	P022-08	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.80	11.15	1	4.94	6.18
15	2.2.9	P022-09	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.82	12.10	1	5.50	6.71
16	2.2.10	P022-10	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.82	12.10	1	5.50	6.71
17	2.2.11	P022-11	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.83	10.87	1	5.00	6.02
18	2.2.12	P022-12	MOTOR	SUBMERS-MIXER	MCC1	DOL		4.4	5.5	3	0.83	10.87	0	0.00	0.00
19	2.3.1	P023-01	MOTOR	SUBMERS-PUMP	MCC1	DRIVE		88	110	3	0.75	211.70	1	88.00	117.33
20	2.3.2	P023-02	MOTOR	SUBMERS-PUMP	MCC1	DRIVE		88	110	3	0.83	212.55	1	97.78	117.80
21	2.3.3	P023-03	MOTOR	SUBMERS-PUMP	MCC1	DRIVE		88	110	3	0.83	212.55	0	0.00	0.00
22	2.3.4	P023-04	MOTOR	SUBMERS-PUMP	MCC1	DRIVE		88	110	3	0.82	233.28	1	106.02	129.30
23	2.3.5	P023-05	MOTOR	SUBMERS-PUMP	MCC1	DRIVE		88	110	3	0.81	251.30	1	112.82	139.28
24	2.3.6	P023-06	MOTOR	SUBMERS-PUMP	MCC1	DRIVE		88	110	3	0.80	198.46	1	88.00	110.00
25	3.1.1	P031-01	MOTOR	FLASH MIXER	MCC1	SOFT STARTER	FLASH MIXER	12	15.0	3	0.81	34.27	1	15.38	18.99
26	3.1.2	P031-02	MOTOR	FLASH MIXER	MCC1	SOFT STARTER		12	15.0	3	0.81	34.27	0	0.00	0.00
27	3.1.3	P031-03	MOTOR	FLASH MIXER	MCC1	SOFT STARTER		12	15.0	3	0.79	35.59	1	15.58	19.73
28	3.1.4	P031-04	MOTOR	FLASH MIXER	MCC1	SOFT STARTER		12	15.0	3	0.79	35.59	0	0.00	0.00
29	4.1.1	P041-01	MOTOR	FLUCOLATOR	MCC1	DOL	FLUCOLATOR	1.36	1.7	3	0.79	3.49	1	1.53	1.93
30	4.1.2	P041-02	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.79	3.49	0	0.00	0.00
31	4.1.3	P041-03	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.80	3.83	1	1.70	2.13
32	4.1.4	P041-04	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.82	3.74	1	1.70	2.07
33	4.1.5	P041-05	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.79	3.49	1	1.53	1.93

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	FLUCOLATI Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
34	4.1.6	P041-06	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.79	3.49	0	0.00	0.00
35	4.1.7	P041-07	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.80	3.83	1	1.70	2.13
36	4.1.8	P041-08	MOTOR	FLUCOLATOR	MCC1	DOL		1.36	1.7	3	0.82	3.74	1	1.70	2.07

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37	5.2.1	P052-01	MOTOR	COMPERSOR	MCC1	DOL	DAF	12	15	3	0.82	33.00	1	15.00	18.29	
38	5.2.2	P052-02	MOTOR	COMPERSOR	MCC1	DOL		12	15	3	0.82	33.00	0	0.00	0.00	
39	5.2.3	P052-03	MOTOR	COMPERSOR	MCC1	DOL		12	15	3	0.82	33.00	1	15.00	18.29	
40	5.3.1	P053-01	MOTOR	SKIMER	MCC1	DOL		0.6	0.75	3	0.82	1.65	1	0.75	0.91	
41	5.3.2	P053-02	MOTOR	SKIMER	MCC1	DOL		0.6	0.75	3	0.82	1.65	2	1.50	1.83	
42	5.3.3	P053-03	MOTOR	SKIMER	MCC1	DOL		0.6	0.75	3	0.82	1.65	3	2.25	2.74	
43	5.3.4	P053-04	MOTOR	SKIMER	MCC1	DOL		0.6	0.75	3	0.82	1.65	4	3.00	3.66	
44	5.4.1	P054-01	MOTOR	PUMP	MCC1	DOL		44	55	3	0.82	121.01	0	0.00	0.00	
45	5.4.2	P054-02	MOTOR	PUMP	MCC1	DOL		44	55	3	0.80	111.50	1	49.44	61.80	
46	5.4.3	P054-03	MOTOR	PUMP	MCC1	DOL		44	55	3	0.83	113.86	1	52.38	63.11	
47	5.4.4	P054-04	MOTOR	PUMP	MCC1	DOL		44	55	3	0.83	113.86	0	0.00	0.00	
48	5.5.1	P055-01	MOTOR	SUBMERS-PUMP	MCC1	DOL		0.88	1.1	3	0.83	2.28	0	0.00	0.00	
49	5.5.2	P055-02	MOTOR	SUBMERS-PUMP	MCC1	DOL		0.88	1.1	3	0.83	2.28	0	0.00	0.00	
50	5.5.3	P055-03	MOTOR	SUBMERS-PUMP	MCC1	DOL		0.88	1.1	3	0.83	2.28	0	0.00	0.00	
51	5.5.4	P055-04	MOTOR	SUBMERS-PUMP	MCC1	DOL		0.88	1.1	3	0.83	2.28	0	0.00	0.00	
52	6.1.1	P061-01	MOTOR	SUBMERS-PUMP	MCC2	DOL		SEDIMENTION 1	3.2	4	3	0.83	8.28	1	3.81	4.59
53	6.1.2	P061-02	MOTOR	SUBMERS-PUMP	MCC2	DOL			3.2	4	3	0.83	8.28	0	0.00	0.00
54	6.1.3	P061-03	MOTOR	SUBMERS-PUMP	MCC2	DOL	3.2		4	3	0.81	8.01	1	3.60	4.44	
55	6.1.4	P061-04	MOTOR	SUBMERS-PUMP	MCC2	DOL	3.2		4	3	0.81	8.01	0	0.00	0.00	
56	6.2.1	FEEDER	FEEDER	BRIDGE	MCC2	VFD	0.44		0.55	3	0.81	1.10	1	0.49	0.61	
57	6.2.2	FEEDER	FEEDER	BRIDGE	MCC2	VFD	0.44		0.55	3	0.81	1.10	1	0.49	0.61	
58	6.2.3	FEEDER	FEEDER	BRIDGE	MCC2	VFD	0.44		0.55	3	0.81	1.10	1	0.49	0.61	
59	6.2.4	FEEDER	FEEDER	BRIDGE	MCC2	VFD	0.44		0.55	3	0.81	1.10	1	0.49	0.61	
60	6.4.1	P064-01	MOTOR	PUMP	MCC2	SOFT STARTER	28		35	3	0.81	79.96	1	35.90	44.32	
61	6.4.2	P064-02	MOTOR	PUMP	MCC2	SOFT STARTER	28		35	3	0.81	79.96	1	35.90	44.32	
62	6.4.3	P064-03	MOTOR	PUMP	MCC2	SOFT STARTER	28	35	3	0.82	77.01	1	35.00	42.68		
63	6.5.1	P065-01	MOTOR	PUMP	MCC2	DOL	SEDIMENTION 2	3.2	4	3	0.82	8.80	0	0.00	0.00	
64	6.5.2	P065-02	MOTOR	PUMP	MCC2	DOL		3.2	4	3	0.81	8.01	0	0.00	0.00	
65	6.5.3	P065-03	MOTOR	PUMP	MCC2	DOL		3.2	4	3	0.82	8.80	0	0.00	0.00	
66	6.5.4	P065-04	MOTOR	PUMP	MCC2	DOL		3.2	4	3	0.81	8.01	0	0.00	0.00	
67	6.6.1	F066-01	FEEDER	BRIDGE	MCC2	VFD		0.296	0.37	3	0.81	0.74	1	0.33	0.41	
68	6.6.2	F066-02	FEEDER	BRIDGE	MCC2	VFD		0.296	0.37	3	0.81	0.74	1	0.33	0.41	
69	6.6.3	F066-03	FEEDER	BRIDGE	MCC2	VFD		0.296	0.37	3	0.81	0.74	1	0.33	0.41	
70	6.6.4	F066-04	FEEDER	BRIDGE	MCC2	VFD		0.296	0.37	3	0.81	0.74	1	0.33	0.41	

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71	6.7.1	P067-01	MOTOR	COMPERSOR	MCC2	DOL	V/F	12	15	3	0.81	30.03	2	26.97	33.29
72	6.7.2	P067-02	MOTOR	COMPERSOR	MCC2	DOL		12	15	3	0.81	30.03	3	40.45	49.94
73	7.1.1	P071-01	MOTOR	PUMP	MCC2	DRIVE		29.6	37	3	0.81	90.32	1	40.55	50.06
74	7.1.2	P071-02	MOTOR	PUMP	MCC2	DRIVE		29.6	37	3	0.82	79.42	1	36.10	44.02
75	7.1.3	P071-03	MOTOR	PUMP	MCC2	DRIVE		29.6	37	3	0.82	79.42	1	36.10	44.02
76	7.1.4	P071-04	MOTOR	PUMP	MCC2	DRIVE		29.6	37	3	0.80	66.76	1	29.60	37.00

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77	7.1.5	P071-05	MOTOR	PUMP	MCC2	DRIVE	DF	29.6	37	3	0.54	159.51	0.5	23.87	44.21
78	7.1.6	P071-06	MOTOR	PUMP	MCC2	DRIVE		29.6	37	3	0.54	159.51	0.5	23.87	44.21
79	7.2.1	P072-01	MOTOR	BLOWER	MCC2	DRIVE		60	75	3	0.54	323.34	0.5	48.39	89.61
80	7.2.2	P072-02	MOTOR	BLOWER	MCC2	DRIVE		60	75	3	0.54	323.34	0.5	48.39	89.61
81	7.2.3	P072-03	MOTOR	BLOWER	MCC2	DRIVE		60	75	3	0.54	323.34	0.5	48.39	89.61
82	7.2.4	P072-04	MOTOR	BLOWER	MCC2	DRIVE		60	75	3	0.54	323.34	0.5	48.39	89.61
83	8.1.1	P081-01	MOTOR	FEED PUMP	MCC1	DOL	FECL3 DOSING UNIT	0.6	0.75	3	0.80	1.50	0.5	0.33	0.42
84	8.1.2	P081-02	MOTOR	FEED PUMP	MCC1	DOL		0.6	0.75	3	0.80	1.50	0.5	0.33	0.42
85	8.2.1	P082-01	MOTOR	MIXER	MCC1	DOL		1.76	2.2	3	0.80	4.41	0.5	0.98	1.22
86	8.2.2	P082-02	MOTOR	MIXER	MCC2	DOL		1.76	2.2	3	0.80	4.41	0.5	0.98	1.22
87	8.3.1	P083-01	MOTOR	DOSING PUMP	MCC1	DOL		0.44	0.55	1	0.80	1.10	0.5	0.24	0.31
88	8.3.2	P083-02	MOTOR	DOSING PUMP	MCC1	DOL		0.44	0.55	1	0.80	1.10	0.5	0.24	0.31
89	8.3.3	P083-03	MOTOR	DOSING PUMP	MCC1	DOL		0.44	0.55	1	0.80	1.10	0.5	0.24	0.31
90	8.3.4	P083-04	MOTOR	DOSING PUMP	MCC1	DOL		0.88	1.1	1	0.80	2.21	0.5	0.49	0.61
91	8.3.5	P083-05	MOTOR	DOSING PUMP	MCC1	DOL		0.88	1.1	1	0.80	2.21	0.5	0.49	0.61
92	8.3.6	P083-06	MOTOR	DOSING PUMP	MCC1	DOL	0.88	1.1	1	0.80	2.21	0.5	0.49	0.61	
93	8.3.7	P083-07	MOTOR	DOSING PUMP	MCC1	DOL	0.88	1.1	1	0.80	2.21	0.5	0.49	0.61	
94	8.3.8	P083-08	MOTOR	PRE FREASH	MCC1	DOL	0.88	1.1	1	0.80	2.21	0.5	0.49	0.61	
95	8.3.9	P083-09	MOTOR	PRE FREASH	MCC1	DOL	0.88	1.1	1	0.80	2.21	0.5	0.49	0.61	
96	8.3.10	P083-10	MOTOR	DOSING PUMP	MCC1	DOL	0.88	1.1	1	0.80	2.21	0.5	0.49	0.61	
97	8.3.11	P083-11	MOTOR	DOSING PUMP	MCC1	DOL	0.88	1.1	1	0.80	2.21	0.5	0.49	0.61	
98	8.4.1	P084-01	MOTOR	MIXER	MCC1	DOL	CHLORINATION FOR PRESEDIMENT	1.76	2.2	3	0.80	4.41	0.5	0.98	1.22
99	8.5.1	P085-01	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.80	0.36	0.5	0.08	0.10
100	8.5.2	P085-02	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.54	0.54	0.5	0.08	0.15
101	8.7.1	P087-01	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.54	0.54	0.5	0.08	0.15
102	8.7.2	P087-02	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.54	0.54	0.5	0.08	0.15
103	8.11.1	P0811-01	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.83	0.35	0.5	0.08	0.10
104	8.11.2	P0811-02	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.83	0.35	0.5	0.08	0.10
105	8.11.3	P0811-03	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.83	0.35	0.5	0.08	0.10
106	8.11.4	P0811-04	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.83	0.35	0.5	0.08	0.10
107	8.11.5	P0811-05	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.86	0.33	1	0.16	0.18
108	8.11.6	P0811-06	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.86	0.33	1	0.16	0.18
109	8.11.7	P0811-07	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.86	0.33	0	0.00	0.00
110	8.11.8	P0811-08	MOTOR	DOSING PUMP	MCC1	DOL		0.144	0.18	3	0.86	0.33	1	0.16	0.18

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119	9.1.1	P091-01	MOTOR	PUMP	MCC2	DOL	H2O2 DOSING UNIT	3.2	4	1	0.80	8.02	1	3.56	4.44
120	9.1.2	P091-02	MOTOR	PUMP	MCC3	DOL		3.2	4	1	0.80	8.02	1	3.56	4.44
121	9.2.1	P092-01	MOTOR	DOSING PUMP	MCC3	DOL		0.144	0.18	1	0.80	0.36	0	0.00	0.00
122	9.2.2	P092-02	MOTOR	DOSING PUMP	MCC3	DOL		0.144	0.18	1	0.80	0.36	1	0.16	0.20
123	9.2.3	P092-03	MOTOR	DOSING PUMP	MCC3	DOL		0.144	0.18	1	0.86	0.32	1	0.15	0.18
124	9.2.4	P092-04	MOTOR	DOSING PUMP	MCC3	DOL		0.144	0.18	1	0.86	0.32	0	0.00	0.00
125	9.3.1	F093-01	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH		120	150	3	0.86	269.25	1	128.34	149.24
126	9.3.2	F093-02	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH		120	150	3	0.86	269.25	1	128.34	149.24
127	9.3.3	F093-03	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH	120	150	3	0.86	269.25	1	128.34	149.24	
128	9.3.4	F093-04	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH	120	150	3	0.86	269.25	1	128.34	149.24	
129	9.3.5	F093-05	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH	120	150	3	0.86	269.25	1	128.34	149.24	
130	9.3.6	F093-06	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH	120	150	3	0.86	269.25	1	128.34	149.24	
131	9.3.7	F093-07	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH	120	150	3	0.86	269.25	1	128.34	149.24	
132	9.3.8	F093-08	FEEDER	OZONE GENERATOR	MCC3	COMPACT SWITH	120	150	3	0.86	269.25	1	128.34	149.24	
133	9.4.1	P094-01	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.81	125.65	1	56.41	69.64	
134	9.4.2	P094-02	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.82	116.64	1	53.01	64.65	
135	9.4.3	P094-03	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.82	116.64	0	0.00	0.00	
136	9.4.4	P094-04	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.80	99.23	1	44.00	55.00	
137	9.4.1	P094-05	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.81	125.65	1	56.41	69.64	
138	9.4.2	P094-06	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.82	116.64	1	53.01	64.65	
139	9.4.3	P094-07	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.82	116.64	0	0.00	0.00	
140	9.4.4	P094-08	COMPERSOR	COMPERSOR	MCC4	DRIVE	44	55	3	0.80	99.23	1	44.00	55.00	
141	9.5.1	P095-01	MOTOR	DRYER	MCC4	DOL	0.88	1.1	3	0.81	2.20	1	0.99	1.22	
142	9.5.2	P095-02	MOTOR	DRYER	MCC4	DOL	0.88	1.1	3	0.81	2.20	1	0.99	1.22	
143	9.5.3	P095-03	MOTOR	DRYER	MCC4	DOL	0.88	1.1	3	0.81	2.20	1	0.99	1.22	
144	9.5.4	P095-04	MOTOR	DRYER	MCC4	DOL	0.88	1.1	3	0.81	2.20	1	0.99	1.22	
145	9.8.1	P098-01	MOTOR	DRYER	MCC4	DOL	1.76	2.2	3	0.81	4.40	1	1.98	2.44	
146	9.8.2	P098-02	MOTOR	DRYER	MCC4	DOL	1.76	2.2	3	0.81	4.40	1	1.98	2.44	
147	9.8.3	P098-03	MOTOR	DRYER	MCC4	DOL	1.76	2.2	3	0.81	4.40	1	1.98	2.44	
148	9.8.4	P098-04	MOTOR	DRYER	MCC4	DOL	1.76	2.2	3	0.81	4.40	1	1.98	2.44	
149	9.9.1	P099-01	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	
150	9.9.2	P099-02	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	
151	9.9.3	P099-03	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
152	9.9.4	P099-04	PUMP	CIRCULATION	MCC4	DOL		0.44	0.55	3	0.81	1.10	1	0.49	0.61
153	9.9.5	P099-05	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	
154	9.9.6	P099-06	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	
155	9.9.7	P099-07	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	
156	9.9.8	P099-08	PUMP	CIRCULATION	MCC4	DOL	0.44	0.55	3	0.81	1.10	1	0.49	0.61	
157	9.10.1	P0910-01	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
158	9.10.2	P0910-02	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
159	9.10.3	P0910-03	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
160	9.10.4	P0910-04	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
161	9.10.5	P0910-05	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
162	9.10.6	P0910-06	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
163	9.10.7	P0910-07	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	
164	9.10.8	P0910-08	MOTOR	CHILER	MCC4	COMPACT SWITH	57.6	72	3	0.80	145.96	1	64.72	80.90	

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
165	10.1.1	P101-01	BRIDGE	TICKNER	MCCS	DOL	DEWATERING	0.2	0.25	3	0.87	0.47	1	0.22	0.26
166	10.1.2	P101-02	BRIDGE	TICKNER	MCCS	DOL		0.2	0.25	3	0.87	0.47	1	0.22	0.26
167	10.2.1	P102-01	PUMP	PUMP	MCCS	DOL		0.2	0.25	3	0.87	0.47	1	0.22	0.26
168	10.2.2	P102-02	PUMP	PUMP	MCCS	DOL		0.2	0.25	3	0.87	0.47	0	0.00	0.00
169	10.7.1	P107-01	PUMP	PUMP	MCCS	DOL		4.4	5.5	3	0.87	10.25	1	4.94	5.68
170	10.7.2	P107-02	PUMP	PUMP	MCCS	DOL		4.4	5.5	3	0.87	10.25	1	4.94	5.68
171	10.3.1	P103-01	BELT FILTER	MOTOR	MCCS	DOL		2.4	3	3	0.87	5.59	1	2.70	3.10
172	10.3.2	P103-02	BELT FILTER	MOTOR	MCCS	DOL		2.4	3	3	0.80	6.08	1	2.70	3.37
173	10.4.1	P104-01	PUMP	MOTOR	MCCS	DOL		6	7.5	3	0.83	14.82	1	6.82	8.21
174	10.4.2	P104-02	PUMP	MOTOR	MCCS	DOL		6	7.5	3	0.79	17.80	1	7.79	9.86
175	10.5.1	P105-01	WASH WATER PUMP	MOTOR	MCCS	DOL		4.4	5.5	3	0.87	9.71	1	4.68	5.38
176	10.5.2	P105-02	WASH WATER PUMP	MOTOR	MCCS	DOL		4.4	5.5	3	0.87	9.71	1	4.68	5.38
177	10.6.1	P106-01	COMPERSOR	COMPERSOR	MCCS	DOL		1.2	1.5	3	0.87	2.65	1	1.28	1.47
178	10.6.2	P106-02	COMPERSOR	COMPERSOR	MCCS	DOL		1.2	1.5	3	0.87	2.65	1	1.28	1.47
179	11.1.1	P111-01	FEED PUMP	PUMP	MCCS	DRIVE		128	160	3	0.87	282.39	1	136.17	156.52
180	11.1.2	P111-02	FEED PUMP	PUMP	MCCS	DRIVE		128	160	3	0.87	282.39	1	136.17	156.52
181	11.1.3	P111-03	FEED PUMP	PUMP	MCCS	DRIVE		128	160	3	0.87	282.39	1	136.17	156.52
182	11.1.4	P111-04	FEED PUMP	PUMP	MCCS	DRIVE		128	160	3	0.87	282.39	1	136.17	156.52
183	11.1.5	P111-05	FEED PUMP	PUMP	MCCS	DRIVE	128	160	3	0.85	271.69	1	128.00	150.59	
184	11.3.1	P113-01	UF BACKWASH	PUMP	MCCS	DRIVE	105.6	132	3	0.81	558.09	1	144.66	178.59	
185	11.3.2	P113-02	UF BACKWASH	PUMP	MCCS	DRIVE	105.6	132	3	0.81	558.09	0	0.00	0.00	
186	11.3.3	P113-03	UF BACKWASH	PUMP	MCCS	DRIVE	105.6	132	3	0.81	322.21	1	144.66	178.59	
187	11.4.1	P114-01	UF BLOWER	MOTOR	MCCS	DRIVE	60	75	3	0.81	183.08	1	82.19	101.47	
188	11.4.2	P114-02	UF BLOWER	MOTOR	MCCS	DRIVE	60	75	3	0.81	317.10	1	82.19	101.47	
189	11.6.1	P116-01	DOSING PUMP	MOTOR	MCCS	DOL	3.2	4	3	0.81	13.87	0	0.00	0.00	
190	11.6.2	P116-02	DOSING PUMP	MOTOR	MCCS	DOL	3.2	4	3	0.81	13.87	1	3.60	4.44	
191	11.6.3	P116-03	DOSING PUMP	MOTOR	MCCS	DOL	3.2	4	3	0.81	13.87	1	3.60	4.44	
192	11.8.1	P118-01	DOSING PUMP	MOTOR	MCCS	DOL	1.2	1.5	1	0.81	5.20	1	1.35	1.66	
193	11.8.2	P118-02	DOSING PUMP	MOTOR	MCCS	DOL	1.2	1.5	1	0.81	5.20	1	1.35	1.66	
194	11.8.3	P118-03	DOSING PUMP	MOTOR	MCCS	DOL	1.2	1.5	1	0.81	5.20	1	1.35	1.66	
195	11.10.1	P1110-01	DOSING PUMP	MOTOR	MCCS	DOL	1.2	1.5	1	0.81	5.20	0	0.00	0.00	
196	11.10.2	P1110-02	DOSING PUMP	MOTOR	MCCS	DOL	1.2	1.5	1	0.81	5.20	0	0.00	0.00	
197	11.10.3	P1110-03	DOSING PUMP	MOTOR	MCCS	DOL	1.2	1.5	1	0.81	5.20	0	0.00	0.00	
198	11.11.1	P1111-01	CIP PUMP	MOTOR	MCCS	SOFT STARTER	12	15	3	0.81	63.42	0	0.00	0.00	

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
199	11.11.2	P1111-02	CIP PUMP	MOTOR	MCC5	SOFT STARTER	CIP	12	15	3	0.81	63.42	0	0.00	0.00
200	11.11.3	P1111-03	CIP PUMP	MOTOR	MCC5	SOFT STARTER		12	15	3	0.81	110.29	0	0.00	0.00
201	11.13.1	HT1113	HEATER	HEATER	MCC5	DOL		12	12	3	0.81	50.74	1	16.44	20.29
202	11.14.1	P1114-01	MOTOR	MIXER	MCC5	DOL		1.76	2.2	3	0.81	9.30	1	2.41	2.98

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
203	12.3.1	P123-01	FEEDPUMP	MOTOR	MCC6	DRIVE	RO	88	110	3	0.81	465.08	0	0.00	0.00
204	12.3.2	P123-02	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
205	12.3.3	P123-03	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
206	12.3.4	P123-04	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
207	12.3.5	P123-05	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
208	12.3.6	P123-06	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
209	12.3.7	P123-07	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
210	12.3.8	P123-08	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
211	12.3.9	P123-09	FEEDPUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
212	12.3.10	P123-10	FEEDPUMP	MOTOR	MCC7	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
213	12.3.11	P123-11	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
214	12.3.12	P123-12	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
215	12.3.13	P123-13	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
216	12.3.14	P123-14	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
217	12.3.15	P123-15	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
218	12.3.16	P123-16	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
219	12.3.17	P123-17	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
220	12.3.18	P123-18	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
221	12.3.19	P123-19	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
222	12.3.20	P123-20	HP PUMP	MOTOR	MCC1	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
223	12.3.21	P123-21	HP PUMP	MOTOR	MCC1	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
224	12.3.22	P123-22	HP PUMP	MOTOR	MCC1	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
225	12.3.23	P123-23	HP PUMP	MOTOR	MCC1	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
226	12.3.24	P123-24	HP PUMP	MOTOR	MCC1	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
227	12.3.25	P123-25	HP PUMP	MOTOR	MCC1	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
228	12.3.26	P123-26	HP PUMP	MOTOR	MCC2	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
229	12.3.27	P123-27	HP PUMP	MOTOR	MCC2	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
230	12.3.28	P123-28	HP PUMP	MOTOR	MCC2	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
231	12.3.29	P123-29	HP PUMP	MOTOR	MCC2	DRIVE		88	110	3	0.81	268.51	1	120.55	148.82
232	12.3.30	P123-30	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
233	12.3.31	P123-31	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	0	0.00	0.00
234	12.3.32	P123-32	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
235	12.3.33	P123-33	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82
236	12.3.34	P123-34	HP PUMP	MOTOR	MCC6	DRIVE		88	110	3	0.81	465.08	1	120.55	148.82

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
								88	110						
237	12.3.35	P123-35	HP PUMP	MOTOR	MCC6	DRIVE	88	110	3	0.81	465.08	1	120.55	148.82	
238	12.3.36	P123-36	HP PUMP	MOTOR	MCC6	DRIVE	88	110	3	0.81	465.08	1	120.55	148.82	
239	12.3.37	P123-37	HP PUMP	MOTOR	MCC6	DRIVE	88	110	3	0.81	465.08	0	0.00	0.00	
240	12.3.38	P123-38	HP PUMP	MOTOR	MCC6	DRIVE	88	110	3	0.81	465.08	0	0.00	0.00	
241	12.4.1	P124-01	BOSTER PUMP -PHASE 2	MOTOR	MCC6	DRIVE	128	160	3	0.81	390.56	1	175.34	216.47	
242	12.4.2	P124-02	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.81	390.56	1	175.34	216.47	
243	12.4.3	P124-03	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.81	390.56	1	175.34	216.47	
244	12.4.4	P124-04	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.81	390.56	1	175.34	216.47	
245	12.4.5	P124-05	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.78	296.08	1	128.00	164.10	
246	12.4.6	P124-06	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.78	296.08	0	0.00	0.00	
247	12.4.7	P124-07	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.78	296.08	1	128.00	164.10	
248	12.4.8	P124-08	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.80	288.68	1	128.00	160.00	
249	12.4.9	P124-09	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.86	287.20	1	136.90	159.18	
250	12.4.10	P124-10	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.86	287.20	0	0.00	0.00	
251	12.4.11	P124-11	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.86	287.20	1	136.90	159.18	
252	12.4.12	P124-12	BOSTER PUMP -STAGE 2	MOTOR	MCC7	DRIVE	128	160	3	0.86	287.20	1	136.90	159.18	

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)
253	12.10.1	P1210-01	DOSING PUMP	MOTOR	MCC7	DOL	ANTISCALANT	0.144	0.18	1	0.86	0.32	1	0.15	0.18
254	12.10.2	P1210-02	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.32	1	0.15	0.18
255	12.10.3	P1210-03	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.32	1	0.15	0.18
256	12.10.4	P1210-04	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.32	1	0.15	0.18
257	12.10.5	P1210-05	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.32	0	0.00	0.00
258	12.12.1	P1212-01	MIXER	MOTOR	MCC7	DOL	SMBS DOSING UNIT	1.76	2.2	3	0.84	4.20	1	1.96	2.33
259	12.13.1	P1213-01	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.80	0.36	1	0.16	0.20
260	12.13.2	P1213-02	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.80	0.36	0	0.00	0.00
261	12.13.3	P1213-03	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.33	1	0.16	0.18
262	12.13.4	P1213-04	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.33	1	0.16	0.18
263	12.13.5	P1213-05	DOSING PUMP	MOTOR	MCC7	DOL	0.144	0.18	1	0.86	0.32	1	0.15	0.18	
264	12.15.1	P1215-01	DOSING PUMP	MOTOR	MCC7	DOL	ACID	0.144	0.18	1	0.86	0.32	0	0.00	0.00
265	12.15.2	P1215-02	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.80	0.36	1	0.16	0.20
266	12.15.3	P1215-03	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.80	0.36	1	0.16	0.20
267	12.15.4	P1215-04	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.86	0.33	1	0.16	0.18
268	12.15.5	P1215-05	DOSING PUMP	MOTOR	MCC7	DOL		0.144	0.18	1	0.80	0.36	1	0.16	0.20

No.		Tag Number	Feeder Type	EQUIPMENT	MCC NAME	Type Of Starter	Unit	Absorbed Power (kw)	Rated Power (kw)	Phase	COSφ	Current (A)	Simultaneity Factor	Active Power with Simultaneity factor (kw)	Apparent Power (KVA)	
269	12.16.1	P1216-01	BACKWASH PUMP	MOTOR	MCC6	SOFT STARTER	CHEMICAL UNIT BACK WASH	29.6	37	3	0.86	62.10	1	29.60	34.42	
270	12.16.2	P1216-02	BACKWASH PUMP	MOTOR	MCC6	SOFT STARTER		29.6	37	3	0.86	113.22	1	31.16	36.23	
271	12.16.3	P1216-03	BACKWASH PUMP	MOTOR	MCC6	SOFT STARTER		29.6	37	3	0.86	113.22	1	31.16	36.23	
272	12.16.4	P1216-04	BACKWASH PUMP	MOTOR	MCC6	SOFT STARTER		29.6	37	3	0.86	113.22	1	31.16	36.23	
273	12.18.1	HT1218-01	HEATER	HEATER	MCC7	DOL		9.6	12	3	0.86	36.72	1	10.11	11.75	
274	12.18.2	HT1218-02	HEATER	HEATER	MCC7	DOL		9.6	12	3	0.86	36.72	1	10.11	11.75	
275	12.20.1	P1220-01	MIXER	MOTOR	MCC7	DOL		1.76	2.2	3	0.86	3.69	1	1.76	2.05	
SUM TOTAL POWER WITH 20% SPARE														11244.87	11530.69	
Note: 1- Type Of Starter : (DOL: Direct On Line , VFD: Variable Frequency Drive , F/R: Forward/Reverse , SSD: Soft Starter Drive , Y/D: Star/Delta, PAC: PACKAGE UNIT)																