

NOx ABATEMENT & SNCR SYSTEM AT 2x525 MW MAITHON POWER LIMITED										
PRELIMINARY ELECTRICAL LOAD LIST										
Sl. NO.	Description of Feeder	Rating (KW/ KVA)	Supply Type	UNITISED(U)/ STATION(S)	NORMAL(N) / EMERGENCY(E)	Service (Continuous(C)/ Intermittent(I))	Quantity		Remarks	Energy Consumption
	In-Combustion Loads									
1	Dynamic Classifier for Unit 1	45	415 V 3 Ph AC	U	N	C	7	1		
2	Dynamic Classifier for Unit 2	45	415 V 3 Ph AC	U	N	C	7	1		
3	UPS DB for analyzer loads for Unit 1	3	240 V AC UPS Supply	U	UPS	C	1	1		26280
4	UPS DB for analyzer loads for Unit 2	3	240 V AC UPS Supply	U	UPS	C	1	1		26280
	SNCR Loads									
3	Urea Circulation Pumps for Unit 1	1.5	415 V 3 Ph AC	U	N	C	1	1		13140
4	Urea Circulation Pumps for Unit 2	1.5	415 V 3 Ph AC	U	N	C	1	1		13140
5	Dilution Pump for Unit 1	3	415 V 3 Ph AC	U	N	C	1	1		26280
6	Dilution Pump for Unit 2	3	415 V 3 Ph AC	U	N	C	1	1		26280
7	Dilution Water Transfer Pump	160	415 V 3 Ph AC	S	N	I	1	1		700800
8	Urea Bulk Storage Forwarding Pump	55	415 V 3 Ph AC	S	N	I	1	1		240900
9	Urea Transfer Pump from Solution Tank	45	415 V 3 Ph AC	S	N	I	1	1		197100
10	Cooling Water Pump	15	415 V 3 Ph AC	S	N	C	2	0		262800
11	Agitator for Day Storage Tank	7.5	415 V 3 Ph AC	S	N	I	1	0		32850
12	Agitator for Bulk Storage Tank	30	415 V 3 Ph AC	S	N	I	1	0		131400
13	Agitator for Solutionizing Tank	7.5	415 V 3 Ph AC	S	N	I	1	0		32850
14	Urea Transfer Conveyor	15	415 V 3 Ph AC	S	N	I	1	1		65700
15	Lance Motor for Unit 1	3	415 V 3 Ph AC	U	E	I	4	0		
16	Lance Motor for Unit 2	3	415 V 3 Ph AC	U	E	I	4	0		
17	Compressor	150	415 V 3 Ph AC	S	N	C	1	1		1314000
18	HVAC	20	415 V 3Ph AC	S	N	C	1	1	Assumed load for HVAC. To be updated as per the final building/area design.	175200
19	Lighting Load	20	415 V 3Ph AC	S	N	C	1	1	Assumed load for Lighting System. To be updated as per the final building/area design.	175200
20	Emergency Lighting Load	8	415 V 3Ph AC	S	E	C	1	1	Assumed load for Emergency Lighting System. To be updated as per the final building/area design.	70080
21	Heater Load for Various Tanks	350	415 V 3Ph AC	S	N	I	1	1	Assumed lump load for all the heaters. To be updated as per final tanks/pipe design.	1533000
									Likely Total Consumption	5063280
									% in terms of Gross Generation ¹	0.06%

NOTE: Please note that this is a preliminary load list. The loads indicated may change as the engineering progresses. As of now Dynamic Classifier at sl nos. 1 and 2 are not applicable.

Further, duty factor of 0.5 has been considered for intermittent load

LEGEND

1) UNITISED(U) /STATION(S): U-is applied for each unit, S-STN (Is applied for common equipment load)

2) NORMAL/ EMERGENCY: N-normal Supply, E-Emergency Supply (I.e DG supply), UPS = UPS Supply

3) RUNNING MODE: C-Continuous, I-Intermittent