		Project : 4.5 MW GTG			
		Title : Equipment list			
Sr. No.	**SYSTEMS**	**TAG NO**	**Details**	**REMARK**	
1.0.0	**GAS TURBINE**	**GT**	**Make- Turbomach**		
1.1.1	Gas Turbine 1	GT#1	Model- Taurus 60,Power output - 5496 kW		
1.1.2	By Passt Stack 1	BP Stack#1	Height 30 m,Top dia- 1.26m	Known as Hot Stack	
1.1.3	GT Stack 1	GT Stack#1	Height 30 m,Top dia- 1.31m	Known as Cold Stack	
1.1.4	GT 1 Control Pannel	GTCP#1			
1.2.1	Gas Turbine 2	GT#2	Model- Taurus 60,Power output - 5496 kW		
1.2.2	By Passt Stack 2	BP Stack#2	Height 30 m,Top dia- 1.26m	Known as Hot Stack	
1.2.3	GT Stack 2	GT Stack#2	Height 30 m,Top dia- 1.31m	Known as Cold Stack	
1.2.4	GT 2 Control Pannel	GTCP#2			
1.3.1	Gas Turbine 3	GT#3	Model- Taurus 60,Power output - 5496 kW		
1.3.2	By Passt Stack 3	BP Stack#3	Height 30 m,Top dia- 1.26m	Known as Hot Stack	
1.3.3	GT Stack 3	GT Stack#3	Height 30 m,Top dia- 1.31m	Known as Cold Stack	
1.3.4	GT 3 Control Pannel	GTCP#3			
1.4.1	DI Water Injection Pump	DI WIP#1	5 m^3 /Hr @ 60mwc		
1.4.2	DI Water Injection Pump	DI WIP#2	5 m^3 /Hr @ 60mwc		
1.5.1	HSD Storage Tank	HSD ST	100 m3 steel tank		

1.6.1	HSD Transfer Pump1	HSD TP#1	13m3/Hr, 55MWC	
1.6.2	HSD Transfer Pump2	HSD TP#2	13m3/Hr, 55MWC	
1.7.1	HSD Unloading Pump1	HSD UP#1	15m3/Hr, 15MWC	
1.7.2	HSD Unloading Pump2	HSD UP#2	15m3/Hr, 15MWC	
1.8.1	Centrifuge	Centrifuge	Westfalia make, Model OTC-02-137, Cap 1.8 m3/Hr	
3.0.0	**Heat Recovery Steam Generator**	**HRSG**	**Thermax make HRSGs**	
3.0.1	HRSG Control Panel	HRSGCP		
3.1.1	HRSG#1	HRSG#1	12.85 TPH, 12 kg/cm2	
3.1.2	Divertor Damper#1	DD#1	Gas flow - 78000 kg/hr , Temp - 515 deg C	
3.1.3	Boiler Feed Pump#1	BFP#1	23 m3/hr @ 170 mwc	
3.1.4	Boiler Feed Pump#2	BFP#2	23 m3/hr @ 170 mwc	
3.2.1	HRSG#2	HRSG#2	12.85 TPH,12 kg/cm2	
3.2.2	Divertor Damper#2	DD#2	Gas flow - 78000 kg/hr , Temp - 515 deg C	
3.2.3	Boiler Feed Pump#3	BFP#3	23 m3/hr @ 170 mwc	
3.2.4	Boiler Feed Pump#4	BFP#4	23 m3/hr @ 170 mwc	
3.3.1	HRSG#3	HRSG#3	12.85 TPH,12 kg/cm2	
3.3.2	Divertor Damper#3	DD#3	Gas flow - 78000 kg/hr , Temp - 515 deg C	
3.3.3	Boiler Feed Pump#5	BFP#5	23 m3/hr @ 170 mwc	
3.3.4	Boiler Feed Pump#6	BFP#6	23 m3/hr @ 170 mwc	

3.4.1	Deaerator	Deaerator	Daeration cap - 43 m3/hr, Pr. 0.3 kg/cm2	
3.5.1	HRSG Makeup Pump#1	HRSG MUP#1	20 m3/Hr, 55 mtr head	
3.5.2	HRSG Makeup Pump#2	HRSG MUP#2	20 m3/Hr, 55 mtr head	
3.5.3	HRSG Makeup Pump#3	HRSG MUP#3	20 m3/Hr, 55 mtr head	
3.6.1	Condensate Tank	CST	Stell tank 45 m3	
3.7.1	CST Makeup Pump#1	CST MUP#1	25 m3 , 25 mtr head	
3.7.2	CST Makeup Pump#2	CST MUP#2	25 m3 , 25 mtr head	
3.8.1	HP Dosing Tank	HPDT	Cap - 300 ltr	
3.8.2	HP Dosing Pump#1	HPDP#1	6 ltr/hr @ 18 kg/cm2	
3.8.3	HP Dosing Pump#2	HPDP#2	6 ltr/hr @ 18 kg/cm2	
3.8.4	HP Dosing Pump#3	HPDP#3	6 ltr/hr @ 18 kg/cm2	
3.8.5	HP Dosing Pump#4	HPDP#4	6 ltr/hr @ 18 kg/cm2	
3.8.6	HP Dosing Pump#5	HPDP#5	6 ltr/hr @ 18 kg/cm2	
3.9.1	LP Dosing Tank	LPDT	Cap - 300 ltr	
3.9.2	LP Dosing Pump#1	LPDP#1	6 ltr/hr @ 3 kg/cm2	
3.9.3	LP Dosing Pump#2	LPDP#2	6 ltr/hr @ 3 kg/cm2	
3.10.1	HRSG Blowdown tank	BDT	Common blow down tank , Dia 1470 mm	
3.10.2	HRSG Blowdown Transfer Pump#1	BDTP#1		Not installed
4.0.0	Cooling Tower	CT	Paharpur make cooling tower , 3 cell , 467 m3/hr/cell	

4.1.1	Cooling Tower Fan#1	CT Fan#1	Air flow 2,63,058 m3/hr	
4.1.2	Cooling Tower Fan#2	CT Fan#2	Air flow 2,63,058 m3/hr	
4.1.3	Cooling Tower Fan#3	CT Fan#3	Air flow 2,63,058 m3/hr	
4.2.1	Cooling Water Pump#1	CWP#1	500 m3/Hr , 30 mtr head	
4.2.2	Cooling Water Pump#2	CWP#2	500 m3/Hr , 30 mtr head	
4.2.3	Cooling Water Pump#3	CWP#3	500 m3/Hr , 30 mtr head	
4.2.4	Cooling Water Pump#4	CWP#4	500 m3/Hr , 30 mtr head	
4.2.5	Cooling Water Pump#5	CWP#5	500 m3/Hr , 30 mtr head	
5.0.0	**Vapour Absorption Machine**	**VAM**	**Thermax Make VAM**	
5.1.1	VAM#1	VAM#1	Rating - 330 TR	
5.1.2	Hot Water Pump#1	HWP#1	110 m3/Hr , 25 mtr head	
5.1.3	Hot Water Pump#2	HWP#2	110 m3/Hr , 25 mtr head	
5.2.1	VAM#2	VAM#2	Rating - 330 TR	
5.2.2	Hot Water Pump#3	HWP#3	110 m3/Hr , 25 mtr head	
5.2.3	Hot Water Pump#4	HWP#4	110 m3/Hr , 25 mtr head	
5.3.1	Chilled Water Pump#1	CHWP#1	150 m3/Hr , 30 mtr head	
5.3.2	Chilled Water Pump#2	CHWP#2	150 m3/Hr , 30 mtr head	
5.3.3	Chilled Water Pump#3	CHWP#3	150 m3/Hr , 30 mtr head	
5.4.1	Chilled Water Expansion Tank	CHWET#1	600 ltr	

10.0.0	**Natural gas system**			
10.1.0	Pressure reducing station 1	NG PRS#1	10000 NM3/hr , 37/17 bar(g)	
10.2.0	Pressure reducing station 1	NG PRS#2	5000 NM3/Hr , 17/6 bar (g)	
11.1.1	HRSG MCC	HRSG MCC		
11.1.2	GTG # 1 MCC	GTG MCC # 1		
11.1.3	GTG # 2 MCC	GTG MCC # 2		
11.1.4	GTG # 3 MCC	GTG MCC # 3		
