GE Frame 6FA Complete Gas Turbine Package

No.	Equipment Details			
GAS TURBINE				
1	Gas Turbine OEM	GE Common Section 1		
2	Туре	Simple open cycle 1 axle gas turbine		
3	Model	6FA		
4	Year of operation start	Sep, 2011		
5	Operation hour	1,000h		
6	Number of start & stop	140 times		
7	Operation situation	Peaking		
8	Number of no-load operation	-		
9	Fuel	Town gas		
10	Inspection cycle	Major inspection: Unexecuted. Daily inspection only.		
11	Most recent inspection	Daily inspection only		
12	Sales features	Power generation equipment set (Electricity control parts included.)		
13	Spare parts	N/A		
14	Current condition	Being stored		
15	Remodelling / Modification	Stock		
16	Generating power	81MW		
17	Manufacturer	HITACHI		
18	Thermal efficiency	35.40%		
19	Combustion temperature	1,300°C		
20	How to activate	Thyristor starting		
21	NO x measure	Latest premixed combustion equipment		

22	Entrance pressure	1.47Mpa
23	Exit pressure	1.25kPa
24	Entrance temperature	1431°C
25	Exit temperature	589°C
26	Design of outside temperature	5°C
27	Rotation speed	5,231 min ⁻¹
28	Critical speed of a driven machine 1st	1,768 min ⁻¹
29	Critical speed of a driven machine 2nd	3,996 min ⁻¹
30	Critical speed of a driven machine 3rd	6,294 min ⁻¹
31	Amount of exhaust gas	650,000m ³ N/h
32	Amount of smoke & soot (Sulfur oxides)	0m³N/h
33	Smoke concentration (Nitrogen oxide)	50ppm
34	Smoke concentration (dust)	0.00 g/m ³ N
AIR COM	PRESSOR	
1	Туре	Axial flow compressor
2	Entrance pressure	-0.65kPa
3	Exit pressure	1.47MPa
4	Entrance temperature	5°C
5	Exit temperature	383°C
6	Rotation speed	5231min-1
Chimney		
1	Туре	Single cylinder
2	Gas speed at exit	48.5m/sec
3	Gas temperature at exit	589°C
4	Diameter	3.86m

5	Height	40m
6	Effective height	346m
7	Quantity	1
Burner		•
1	Туре	Pressure injection type
2	Capacity	3.5 x 10 ³ m ³ N/h/Unit
3	Quantity	6
ype of	gas and etc.	
1	Туре	Natural gas
2	Calorific value	40,530 kJ/m³N
3	Sulfur content	0.0%
4	Nitrogen content	Below 0.0%
5	Ash content	0.0%













