



CESS REF: GTMM9797

## **220MW CCGT: 1 x 140MW Siemens V94.2 + 1 x 80MW Ansaldo Steam Turbine with Auxiliaries**



### **1 x Siemens V94.2 Gas Turbine**

|                          |   |                    |
|--------------------------|---|--------------------|
| Gas Turbine Manufacturer | : | Siemens            |
| Engine Model             | : | V94.2              |
| Fuel                     | : | Dual Fuel          |
| Site Rated Capacity      | : | 140,000kW          |
| Frequency                | : | 50 Hz              |
| Generator Manufacturer   | : | Ansaldo Italy      |
| Generator Model          | : | WY21Z-097LLT       |
| Generator Capacity       | : | 200,000kVA         |
| Transformer Manufacturer | : | BHEL India         |
| Transformer Type         | : | Oil filled         |
| Transformer Capacity     | : | 210 MVA (235/15kV) |
| Year of Commission       | : | 2002               |
| Total Operation Hours    | : | 113,613 hrs        |





## 1 x Ansaldo Steam Turbine

|                            |   |                          |
|----------------------------|---|--------------------------|
| Steam Turbine Manufacturer | : | Ansaldo Italy            |
| Steam Turbine Model        | : | HDS16010NDA31            |
| Steam Turbine Type         | : | Condensing               |
| Rated Capacity             | : | 80,000kW                 |
| Steam High Pressure        | : | 83.78 kg/cm <sup>2</sup> |
| Steam Low Pressure         | : | 5.24 kg/cm <sup>2</sup>  |
| Steam High Temperature     | : | 526°C (979 °F)           |
| Steam Low Temperature      | : | 199°C (390 °F)           |
| Generator Manufacturer     | : | Ansaldo Italy            |
| Generator Model            | : | WY18Z-073LLT             |
| Transformer Manufacturer   | : | BHEL India               |
| Transformer Type           | : | Oil filled               |
| Transformer Capacity       | : | 110 MVA (235/11.5kV)     |
| Total Operation Hours      | : | 95,209 hrs               |



## Auxiliaries/Balance of Plant

Complete auxiliaries and BOP are available including Cummins India Black Start, Fuel Gas System, Circulating/Aux Cooling Water Pumps, DM Plant, Fire Fighting Systems and ABB MESA Control System for Gas and Steam Turbines.