**2 Nos.- 15 MW each, CVL/TRIVENI (2008) make, Coal based Complete Condensing type Power Plants, each having the Following Technical Specifications:**

**POWER PLANT INFORMATION:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl No** | **Description Of Equipment** | **Make** | **Capacity** | **Year of Manufacturing** |
| 1 | Turbine 2 Nos. | Triveni | 15.6MW | 2008 |
| 2 | Alternator | TDPS | 18.75 MVA | 2008 |
| 3 | Boiler 2 Nos. | CVL | 15MW | 2008 |
| 4 | Power Transformers 2 Nos. | EMCO | 20/25 MVA | 2010 |
| 5 | Auxiliary Transformer 3 Nos. | KIRLOSKER | 2.75 KVA | 2010 |
| 6 | Diesel generator | LEROY SOMEN INDIA (P) LTD | 2 Kv |  |
| 7 | Boiler feed pump |  |  |  |
| 8 | Compressor 2 Nos. | ELGI-132 Kw, IR-160 Kw | 132 kw,160 Kw | 2010 |
| 9 | Coal Crusher & Coal conveyors |  |  |  |
| 10 | ID Fan/FD Fan |  |  |  |
| 11 | PA Fan |  |  |  |
| 12 | Chimney System |  |  |  |
| 13 | Dust Collector System |  |  |  |
| 14 | Cooling Tower |  |  |  |
| 15 | lab Equipment |  |  |  |
| 16 | DM Plant |  |  |  |
| 17 | EOT Crane |  |  |  |
| 18 | Control Room Panel |  |  |  |
| 19 | Condenser |  |  |  |
| **The above all equipment are in good condition** |

**TECHNICAL SPECIFICATIONS:**

**TURBINE (2 Nos.)**

Make : Triveni

Year of Make : 2008

Type : Condensing Steam Turbine

Power : 15 MW

Inlet Steam Temperature : 64 kg/cm2

Inlet Steam Temperature : 490° Deg. C

Turbine Rotor Speed : 6850 RPM

Gearbox Output Speed : 1500RPM

Turbine Speed : 7535 To 7873 RPM

1st Critical Speed : 2300 To 2800RPM

**ALTERNATOR (2 Nos.)**

Make : TDPS

Year of Make : 2008

Power : 15 MW

Voltage : 11 kV

AUXILIARY OIL PUMP (2 Nos.)

Make : Rotodel

Capacity : 180 Gpm

AUXILIARY CONTROL OIL PUMP (2 Nos.)

Make : Rotodel

Capacity : 16 Gpm

MAIN OIL PUMP (2 Nos.)

Make : David Brown

Capacity : 180 Gpm

**BOILER (2 Nos.)**

Make : CVL

Year of Make : 2008

Capacity : 70 TPH

Type : AFBC, Single Drum Water Tube

Working Pressure : 66kg/Cm²

Steam Temperature : 480±5 Deg. C

BOILER FEED PUMP (4 Nos.)

Make : KSB

Quantity : 93.04 M3/HR

FD FAN (2 Nos.)

Make : CVL

Capacity : 28.5 M3/SEC

ID FAN (2 Nos.)

Make : CVL

Capacity : 42.19 M3/SEC

PA FAN(4 Nos.)

Make : CVL

Capacity : 5.25 M3/SEC

DRAG CHAIN FEEDER (10 Nos.)

Make : CVL

Capacity : 2.2 KW

POCKET FEEDER (20 Nos.)

Make : CVL

Capacity : 2.2 KW

HP DOSING PUMP (4 Nos.)

Make : SWELORE ENG PVT LTD

Capacity : 10M3/SEC

LP DOSING PUMP (4 Nos.)

Make : SWELORE ENG PVT LTD

Capacity : 21M3/SEC

MOTORISED MSSV (2 Nos.)

Make : KSB

Capacity : 1500 CLASS

MOTORISED MS BYPASS VALVE (2 Nos.)

Make : KSB

Capacity : 1500 CLASS

**ESP & ASH HANDLING MCC**

* Purge Blower-5.5-2 Nos.
* Ash Conveyor-11-Abb-2 Nos.
* Rotary Valve Feeder-1.5-Pbl-2 Nos.
* Emitting Rapping Motor-1-0.18-Ic Bauer-6 Nos.
* Collecting Rapping Motor-1-0.18- Ic Bauer-6 Nos.

**COAL HANDLING PLANT**

* Crusher Motor-110-CG-1 No
* Screen Motor-22-CG-1 No
* Belt Conveyor Motor-1-5.5-CG-1 No
* Belt Conveyor Motor-2-7.5-CG-1 No
* Belt Conveyor Motor-3-5.5-CG-1 No
* Belt Conveyor Motor-4-5.5-CG-1 No
* Belt Conveyor Motor-5-7.5-CG-1 No
* Belt Conveyor Motor-6-3.7-CG-1 No
* Vibrating Feeder-1-0.75-ELECTRO MAGNETIC INDUSTRIES-2 Nos.

**DM PLANT**

* Dm Transfer Pump-11.0-Cg-2
* ALAM Dosing Pump-Gb-402-Miltob Roy-2
* Coagulation Dosing Pp-1-0.37-Bharat Bijlee-2
* Hypo chloride Dosing Pump-Gb-403-Milton Roy-2
* Rack Drive-0.37-1
* Sludge Transfer Pump0.80-1
* MGF Feed Pump-3.7-Abb-2
* UF Recirculation Pump-5.5-Abb-1
* Back Flush Pump-3.7-Abb-1
* Ro Feed Pump-2.2-Cg-2
* High Pressure Pump-11.0-Grundfox-2
* Cleaning Solution Pump-5.5-Abb-1
* Dg Air Blower-0.18-Remi-2
* Mg Feed Pump-3.7-Cg-2

**COOLINGTOWERMCC**

* Main cooling water pump-225-cg-6 Nos.
* Auxiliary cooling water pump-55-cg-4 Nos.
* Cooling tower fan-55-siemens-6

**POWERTRANSFORMERANDOTHERELECTRICALS**

* 20/25 MVA 11 Kv/33kv Ydn11-Emco-2 Nos.
* 33 Kv Vcb-1600 Amp- Siemens-4 Nos.
* 33 Kv Isolator-1600 Amp- Trans Electric-4 Nos.
* 33 Kv Pt-33kv/110 Volt- Sandus-2 Nos.
* 33 Kv Ct-400/1-1-1a 15 Va- Sandus-6 Nos.
* 11 Kv Pt-11 Kv/110 Volt- Sandus-2 Nos.
* 11 Kv Ct-1200/1-1-1a 15 Va- Sandus-6 Nos.
* 33 Kv La-33 Kv,10 Ka- Sandus-6 Nos.
* 11 Kv La-12 Kv,10ka-Oblin-6 Nos.
* Relay Metering Panel-Incotech-2 Nos.
* Rtcc Panel-Emco-2 Nos.
* 12 Kv VCB- Type-3ak6532-A, 1250 Amp, Sl No- N81317/18/19/20- Siemence-4 Nos.
* 12 Kv VCB- Type-3ak6533-A, 1600 Amp, Sl No- N81322/23/24- Siemence-3 Nos.
* 11 Kv Pt-11000/√3/110/√3-110/3,Sl No- 09/70774/75/76- Pragati Electrical-3 Nos.
* Kv Ct-1200/1-1a Burdeb 15va Sl No-09/60915/16/17/21/22/23/24/25/26, 09/60897/898/899/900/901/902-Pragati Electrical Pvt Ltd-15 Nos.
* 11 Kv Ct-250/1-1a, 15va,Sl No-09/60903/904/905/906/907
* /908/909/910- Pragati Electrical Pvt Ltd-9 Nos.
* 102 11 Kv Ct-500/1-1a, 15va,Sl No-09/90912/912/914-3 Nos.

**DCS–SYSPROAUTOMATION**

**NOTE:**

* The plant was commissioned 2012-13 and all equipment are in good conditionat present.
* Substation-CT & PT-11kv.
* Power evacuation- 33 KV.
* It is a Coal based power plant with Raw material- Steam coal/charcoal/coal fines.
* All equipment are in working condition.

**PHOTOS:**













































 