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THE FOLLOWING USED STEAM TURBINE GENERATOR SET IS AVAILABLE FOR SALE WITH US WITH IMMEDIATE DELIVERY:

1 No. –12000 kW, TRIVENI (2009) make Fully Condensing type Steam Turbine Generator Set, having the following technical specifications:

TECHNICAL DETAILS:

TURBINE:

| | | |
|--------------------------------|---|------------------|
| Make | : | TRIVENI |
| Year of Make | : | 2009 |
| Type | : | SCG3 |
| Power | : | 12000kW |
| Inlet Steam Pressure | : | 64 ATA |
| Inlet Steam Temperature | : | 480 Deg. C. |
| Bleed Steam Pressure | : | 3.57 ATA |
| Exhaust Steam Pressure | : | 0.18 ATA |
| Turbine Speed | : | 6827 RPM |
| Gear Box Out-put Speed | : | 1500 RPM |
| Turbine Trip Speed | : | 7510 to 7850 RPM |
| 1 st Critical Speed | : | 2300 to 2800 RPM |

GEAR BOX:

| | | |
|-----------------------|---|---------------------|
| Make | : | TRIVENI |
| Year of Make | : | 2009 |
| Power | : | 12600 kW / 16899 HP |
| Input Speed | : | 6827 RPM |
| Output Speed | : | 1500 RPM |
| Ratio | : | 4.55: 1 |
| Factor | : | 1.5 |
| No. of teeth - Gear | : | 132 |
| No. of teeth - Pinion | : | 29 |
| Oil Recommended | : | ISO-VG-46 |
| Oil Quantity | : | 275 LPM |
| Oil Pressure | : | 1.5 BAR |

GENERATOR:

| | | |
|---------------------|---|------------|
| Make | : | TDPS |
| Type | : | TC 150 |
| Year of Make | : | 2009 |
| Output | : | 15000 kVA |
| Speed | : | 1500 RPM |
| Limiting Speed | : | 1800 RPM |
| Voltage | : | 11000 V |
| Current | : | 787 A |
| No of Phases | : | 3 |
| No of Poles | : | 4 |
| Frequency | : | 50 Hz |
| P.F | : | 0.8 |
| Connection | : | Star |
| Exc. Voltage | : | 196 V DC |
| Exc. Current | : | 696 A DC |
| Enclosure | : | IP 54 |
| Cooling System | : | IC81W |
| Coolant Temperature | : | 32 Deg. C |
| Duty | : | Continuous |
| Altitude | : | 1000 M |
| Insulation Class | : | F |

EXCITER:

| | | |
|------------------|---|-----------------------------|
| Make | : | TDPS |
| Year of Make | : | 2009 |
| System | : | Brushless Excitation System |
| Enclosure System | : | IP 23 |
| Cooling System | : | IC 01 |
| Insulation Class | : | F |

SCOPE OF SUPPLY:

The above TG set will be supplied by you with the following accessories:

- 1) Steam Turbine with inlet valve, control valves, actuator, linkages, etc.
- 2) Reduction Gear Box.
- 3) Alternator with exciter and top mounted radiator.
- 4) Turbine base frame (Oil Tank) along with AOP with motor, EOP, Control oil filter, oil mist separator, etc.
- 5) 1 No. Duplex oil filter.
- 6) 2 Nos. heat exchangers.
- 7) 1 No. Barring gear with motor mounted on gear box.
- 8) High Speed and Low Speed couplings with covers.
- 9) 1 No. Turbine control panel with Woodward make Electronic Governor.
- 10) 1 No. Excitation panel.
- 11) 1 No. NGR panel.
- 12) 1 No. LAVT panel.
- 13) 1 No. Generator relay panel,
- 14) 1 No. Synchronization panel.

Exclusions: Condensing System, Cables, etc.

PHOTOS:







