



DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY

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12/16 MW CONDENSING STEAM TURBINEGENERATOR SET (WITH 3 UNCONTROLLED BLEEDINGS)



Year of Manufacture : **1976**
Year Retired : **2010**
Condition : **Excellent**
Status : **Installed on foundation**
Note : **Condenser Excluded**

**NITIN CORPORATION
MUMBAI.**

12/16 MW Franco Tosi Condensing STG Set

TURBINE :



Manufacturer: Franco Tosi S.p.A.,
Legnano, Italy

Type: Single cylinder, reaction
steam turbine

Normal Rating: 11,130 kW

Maximum Continuous Rating: 17,000 kW

Rated Speed: 3000 RPM

Inlet Pressure

Normal: 62.86 bar abs

Maximum: 74 bar abs

Inlet Temperature

Normal: 450 Deg. C

Maximum: 485 Deg. C

1st Bleeding

Pressure (Normal): 5.07 bar abs

Temperature (Normal): 190.39 Deg. C

Flow (Normal): 2812.3 kg/hr

2nd Bleeding

Pressure (Normal): 1.79 bar abs

Temperature (Normal): 126.32 Deg. C

Flow (Normal): 3098.56 kg/hr

3rd Bleeding

Pressure (Normal): 0.43 bar abs
Temperature (Normal): 76.85 Deg. C
Flow (Normal): 23.45 kg/hr

Exhaust Pressure

Normal: 0.1 bar abs
Maximum: 0.5 bar abs

Inlet Flow

Normal Rating (11,130 kW): 46,664.41 kg/hr

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Additional Performance Data:

Case 1 (actual measured):

Inlet Pressure: 65 bar abs
Inlet Temperature: 480 C
Inlet Flow: 55,200 kg/h
Exhaust Pressure: 0.09 bar abs
Exhaust Flow: 46,540 kg/h
Power: 13,500 kW

ALTERNATOR :

Manufacturer: Technomasio Brown Boveri,
Milan, Italy

Type: 2 Pole

Apparent Power: 20,000 kVA

Power Factor : 0.8

Active Power : 17,000 kW

Rated Voltage: 6000V

Phases: 3

Frequency: 50 Hz

Rated Speed: 3000 RPM

Connection: Star



NOTE :

- The above STG Set is presently still in operation and is to be shutdown in April this year. It can therefore be inspected in operating condition.
- The Condensing System is not included in the scope of supply since the same is being retained by the owner for another STG Set.

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