



Tel: Off : +91 22 2523 4478 / 67973677  
Fax : +91 22 2523 5386  
E mail : enquiry@corponit.com  
Website : www.corponit.com

**DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY**

402, 4th Floor, Bezzola Commercial Complex, V.N. Purav Marg, Sion Trombay Road, Chembur, Mumbai – 400071, INDIA.

**1 x 5 MW STORK make Back Pressure type Steam Turbine Generator Set :**

Year of construction : 1962

**TURBINE**

Terminal output - max. : 5000 kW  
- norm. : 4000 kW  
Speed : 6000 rpm  
Live steam pressure : 25 bar - max. 30 bar  
Live steam temperature : 375 °C - max. 400 °C  
Backpressure : 4.0 bar

**GEARBOX**

Manufacture : Rademakers  
Type : Raplan 45 H.  
Output : 7500 hp (5500 kW)  
Speed : 6000 / 1000 rpm

**ALTERNATOR**

Manufacture : Smit Slikkerveer  
Type : DG 183/100  
Output : 7150 (6250) kVA  
Power factor : 0.7 (0.8)  
Voltage : 12,650 (11,000) V  
Current : 327 A  
Speed : 1000 rpm  
Isolations class : B  
Excitation : 115 V – 350 A

**ORIGINAL PERFORMANCE FIGURES WHEN OPERATING AT 24 BAR / 360 °C LIVE STEAM AND 4.0 BAR BACKPRESSURE:**

Terminal output	5000	4000	2500	kW
Steam flow	59.0	46.4	32.75	t/h
Spec. steam consumption	11.8	11.6	13.1	kg/kWh

**ALTERNATION VOLTAGE**

The alternator voltage (12,650 V) is rather uncommon. If we reduce the voltage to 11 kV, the output reduces to 6250 kVA. We can operate the alternator at full load (5000 kW) at 11 kV if the power factor is 0.8.

**SCOPE OF SUPPLY:**

The complete installation as arranged is available and contains, inter alia, the following parts:

- Turbine and gearbox on a common base plate;
- Alternator on base plate with exciter;
- Alternator air coolers;
- Electrical installation (voltage regulation, protection, star point, etc.);
- Oil unit with tank, pumps, coolers, filter and oil vapour fan;
- Control cabinets;
- Instrumentation;
- Piping with valves and fittings;
- Spare parts as far as available;
- Manuals, drawings and documentation as far as available;