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DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY

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

2 x 14.83 MW SIEMENS make Back Pressure type Steam Turbine Generator Sets:

Year of construction : 1979
Operating hours : approx. 56,000 h.

TURBINE:

Type : NG 40/32/0-3 Duc
Output : max. 14,830 kW
norm. 12,580 kW
Speed : 9000 rpm
Live steam : 59 bar – max. 65 bar
Live steam temperature : 490 °C – max. 500 °C
Steam flow : 93 t/h
Backpressure : 2.5-4.5 bar

GEARBOX:

Type : G 100-2
Output (ingoing) : 16,175 kW
Speed : 9000 / 1500 rpm

ALTERNATOR:

Manufacture : Siemens
Type : 1 DT 4142-7 BE 02-Z
Output : 18,000 kVA
Power factor : 0.8
Voltage : 6.3 kV
Current : 1649 A
Speed : 1500 rpm

Isolation class	:	F
Protection class	:	IPR 44
Construction	:	D6
Cooling air temperature	:	40 °C
Cooling air flow	:	10.4 m ³ /s
Cooling water flow	:	approx. 55 m ³ /h
Cooling water inlet temperature	:	30 °C
Excitation (compound)	:	82 V – 948 A

ORIGINAL PERFORMANCE FIGURES

WHEN OPERATING AT 59 BAR / 490 °C LIVE STEAM AND 2.5 BAR BACKPRESSURE:

Output	14,830	12,580	9750	6850	kW
Steam flow	93	78.0	62.4	46.8	t/h
Spec. steam consumption	6.27	6.20	6.40	6.83	kg/kWh

WHEN OPERATING AT 59 BAR / 490 °C LIVE STEAM AND 4.5 BAR BACKPRESSURE:

Output	13,280	11,234		5088	kW
Steam flow	93	77.95		42.07	t/h
Spec. steam consumption	7.00	6.94		8.27	kg/kWh

EFFICIENCY ALTERNATOR:

Load points	4/4	3/4	2/4	1/4
Efficiency %	97.2	97.0	96.4	93.5

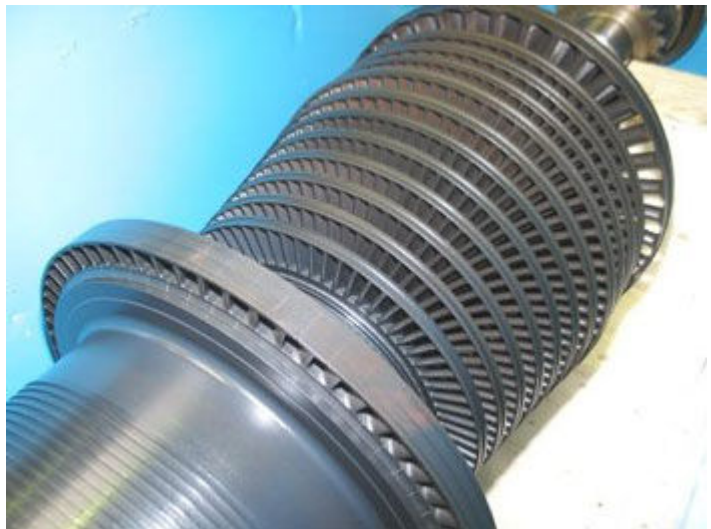
SCOPE OF SUPPLY:

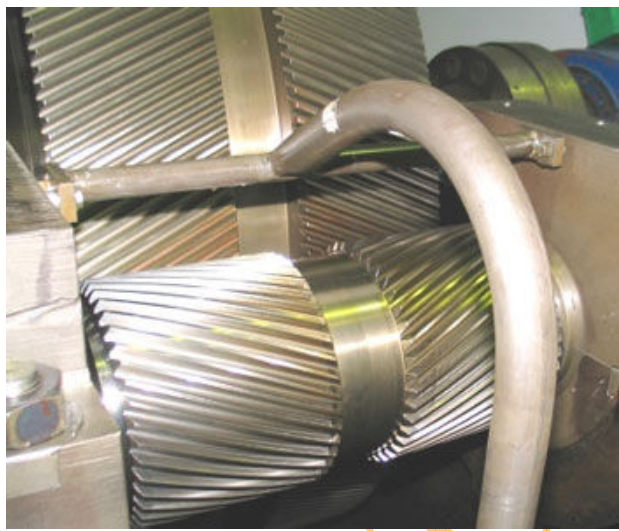
The complete installation as arranged is available and contains, inter alia, the following parts:

- Turbine;
- Gearbox with mechanical turning gear;
- Sound proof casing over turbine and gearbox (83.0 ± 2.0 dB(A));
- Alternator with exciter (compound);
- Base plates for turbine and alternator (the 2 gearbox base plates were not removable);

- Alternator air coolers;
- Electrical installation (original protection is not available, maybe we have available an alternative Protection, year 1996);
- Oil unit with tank, pumps, coolers, filter and oil vapour fan;
- Control cabinets;
- Instrumentation;
- Vibration monitoring for T1 (Bently Nevada);
- Piping with valves and fittings;
- Manuals, drawings and documentation as far as available;

PRODUCT IMAGES :





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