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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.

1 x 10 MW STORK make Back Pressure type Steam Turbine Generator Set :

Year of construction : 1972
Operating hours : approx. 65,000 h.

TURBINE

Type : GS
Terminal output : 10,000 kW
Speed : 9250 rpm
Live steam pressure : 52 bar - min. 36 bar - max. 67 bar
Live steam temperature : 430 °C - min. 415 °C - max. 450(470) °C
Backpressure : 4.0 bar (1.0-5.0 bar)
Governor : Woodward type UG8

GEARBOX

Manufacture : Rademakers
Type : Raplan 700 AL
Output : 15,000 hp (11,000 kW)
Speed : 9250 / 1500 rpm

ALTERNATOR

Manufacture : Elin
Type : Sv 125/4-173
Output : 14,300 kVA
Power factor. : 0.7
Voltage : 12.625 V \pm 5 %
Current : 654 A
Speed : 1500 rpm

Construction	:	D5
Isolation class	:	B
Protection class	:	P 33
Cooling air flow alternator	:	690 m ³ /s
Capacity air coolers	:	838 m ³ /s
Cooling air flow – inlet / outlet	:	60 °C / 35 °C
Cooling water flow	:	approx. 35 m ³ /h
Cooling water temperature – inlet / outlet	:	22 / 30 °C
Excitation	:	76 V – 777 A

EXCITER

Manufacture	:	Elin
Type	:	W 36
Output	:	63 kW
Voltage	:	80 V
Current	:	790 A

ORIGINAL PERFORMANCE FIGURES

WHEN OPERATING AT 52 BAR / 430 °C LIVE STEAM AND 4.0 BAR BACKPRESSURE:

Terminal output	10,000	8470	5400	kW
Steam flow	73.7	61.6	42.8	t/h
Spec. steam consumption	7.37	7.27	7.93	kg/kWh

EFFICIENCY ALTERNATOR

Efficiency at	4/4	3/4	2/4	1/4	load
Cos phi = 0.7	97.61	97.47	96.95	94.99	%
Cos phi = 1.0	98.51	98.38	98.00	96.58	%

SCOPE OF SUPPLY:

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

- Turbine and gearbox on a common skid;
- Alternator on base plate with exciter;
- Alternator air coolers;

- Electrical installation (voltage regulation, protection, star point, etc.);
- Oil unit with tank (located in the turbine skid), 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;

PRODUCT IMAGES :



