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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 12.7 MW SIEMENS make Extraction – Condensing type Steam Turbine Generator Set:

Year of construction : 1969

TURBINE:

Type : EK 1100-2
Output : max. : 12,700 kW
 : norm. : 9,400 kW
Speed : 6500 rpm
Live steam pressure and temperature : 36 bar / 440 °C
Live steam flow : max. 75 t/h
Extraction pressure : 3.0 bar ± 1.0 bar
Extraction flow : 0 – 70 t/h
Exhaust pressure : 0.072 bar
Steam flow LP-part : 17 t/h - max. 25 t/h
Cooling flow for the LP-part : approx. 1.0 t/h

CONDENSER

Manufacture : Siemens
Type : 20/4/34
Condensing capacity : 17 t/h - max. 25 t/h
Condenser pressure : norm. 0.072 bar
Cooling water flow : 1020 m³/h
Cooling water velocity : approx. 1.61 m/s
Cooling water inlet temperature : 27 °C
Heating transfer : approx. 9,520 000 kcal/h
Piping : ? pcs., mat. SoMs 71
 L = 3460 mm, Ø 23 x 1 mm

GEARBOX:

Type : T 88
 Output (ingoing) : 19,000 hp
 Speed : 6500 / 1500 rpm

ALTERNATOR:

Type : PFL 430/44-4
 Output : 16,000 kVA
 Power factor : 0.8
 Voltage : 6.3 kV
 Current : 1469 A
 Speed : 1500 rpm
 Construction : B3
 Isolation class : B
 Protection class : P 33 r
 Cooling water inlet temperature : 27 °C
 Cooling water flow : 50 m³/h
 Excitation (compound) : 94 V – 432 A

ORIGINAL PERFORMANCE FIGURES WHEN OPERATING AT 36 BAR / 440 °C LIVE STEAM, 3.0 BAR EXTRACTION AND 0,072 BAR EXHAUST PRESSURE:

Terminal output	12,700	9400	6800	5650	kW
Steam flow	75.0	57.0	35.0	45.0	t/h
Extraction flow	50.0	40.0	10.0	44.0	t/h
Spec. steam consumption	5.90	6.06	5.15	7.96	kg/kWh

ALTERNATOR EFFICIENCY

Load points	4/4	3/4	1/2	1/4	
Alternator efficiency (p.f. = 0.8)	97.3	97.1	96.4	93.7	%

SCOPE OF SUPPLY:

The complete turbo-alternator set, as stored, is available. The scope of supply includes inter alia:

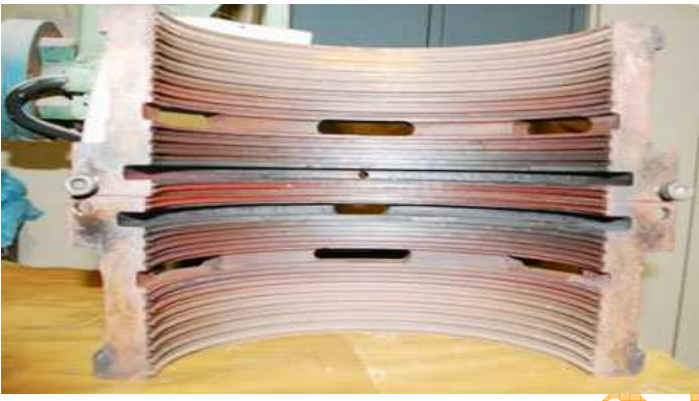
- Turbine
- Gearbox with hydraulic turning gear
- Alternator with exciter (compound) and air coolers
- Steel foundation with spring elements and supports
- Condenser unit with condenser, elmo pumps, condensate pumps, etc.
- Oil unit with tank, oil pumps, coolers, filter, fine filter, oil vapour fan, oil separator, etc.
- Electrical equipment with voltage regulation, protection, star point, synchroniser, etc.
- Control cabinets with instrumentation
- Available spare parts
- Manuals, drawings and documentation.

PRODUCT IMAGES :









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