



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 12.9 MW AEG-KANIS make Back Pressure Steam Turbine Generator Set :

Year of construction : 1970
Re-erected : 1986 (general overhaul)

TURBINE

Type : KR 36
Output : 12,900 kW
Speed : 8000 rpm
Live steam pressure : 80 bar - max. 96 bar
Live steam temperature : 530 °C - max. 535 °C
Pass out I (uncontrolled, wheel chamber, blind) : 35/53 bar (0-8 t/h)
Pass out II (uncontrolled, blind) : 10/19 bar (0-15 t/h)
Backpressure : 3.7 bar

GEARBOX

Manufacture : Maag
Type : GN 90
Output : 15,000 kW
Speed : 8000 / 1500 rpm

ALTERNATOR

Manufacture : AEG
Type : S 7085 d4
Output : 18,800 kVA
Power factor : 0.7
Voltage : 6.3 kV
Current : 1613 A

Speed	:	1500 rpm
Isolation class	:	B
Construction	:	D 6
Protection	:	P 33 r
Cooling air flow	:	13.5 m ³ /sec
Temperature air cooler inlet/outlet	:	62 / 38 °C
Cooling water flow	:	85 m ³ /h
Cooling water temperature inlet/outlet	:	30 / 34 °C
Heat transfer	:	330,000 kcal/h
Excitation (compound)	:	71.5 V - 850 A

ORIGINAL PERFORMANCE FIGURES (NEW NIB BLADES)

WHEN OPERATING AT 87 BAR / 530 °C LIVE STEAM AND 3.5 BAR BACKPRESSURE

Terminal output	12.900	10.600	kW
Live steam flow	71.5	60.0	t/h
Spec. steam consumption	5.54	5.66	kg/kWh

ORIGINAL PERFORMANCE FIGURES (NEW NIB BLADES)

WHEN OPERATING AT 80 BAR / 530 °C LIVE STEAM AND 3.7 BAR BACKPRESSURE

Terminal output	12.550	9830	6600	3370	kW	
Live steam flow	71.5	58.0	42	26	t/h	
Spec. steam consumption		5.70	5.90	6.36	7.72	kg/kWh

ORIGINAL PERFORMANCE FIGURES (ORIGINAL BLADES)

WHEN OPERATING AT 87 BAR / 530 °C LIVE STEAM AND 2.5 BAR BACKPRESSURE

Terminal output	13.050	11.230	8200	4970	kW	
Live steam flow	71.5	60.0	45.0	30.0	t/h	
Spec. steam consumption		5.47	5.34	5.48	6.03	kg/kWh

SCOPE OF SUPPLY:

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

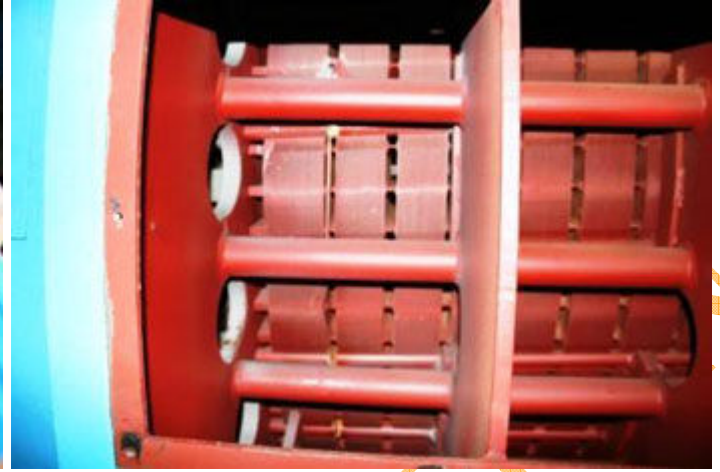
- Turbine with turning gear;

- Gearbox;
- Alternator with compound exciter;
- Base plates for turbine, gearbox and alternator;
- Alternator air coolers (year 2001);
- Electrical installation;
- Oil unit with tank (10,000 ltr.) pumps, coolers, filter and oil vapour fan;
- Gland steam condenser;
- Control cabinets;
- Instrumentation;
- Piping with valves and fittings;
- Spare parts and tools as far as available;
- Original turbine rotor and blade carrier (replaced);
- Manuals, drawings and documentation;

OPERATION

PRODUCT IMAGES :





INCORPORATE