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

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### **1 x 9.53 MW SIEMENS Make Extraction-Back Pressure Type Steam Turbine Generator Set :**

Year of construction : 1982  
Re-erection : 1989  
Total operating hours : approx. 66,000 h.  
Operating hours after the re-erection in 1990 : approx. 34,000 h.

#### **TURBINE**

Type : ENG 32/25/48-3 Da  
Output : norm. 8215 kW - max. 9530 kW  
Speed : 10,000 rpm  
Live steam pressure : 60 bar - max 64 bar  
Live steam temperature : 480 °C  
Steam flow : 70 t/h  
Extraction : 26 bar (0 – 10.8 t/h)  
Backpressure : 5.5 bar

#### **Present steam conditions (no modifications):**

Output : 9400 kW  
Live steam : 60 bar / 500 °C  
Backpressure : 3.5 bar

#### **GEARBOX**

Manufacture : Siemens  
Type : G 90/1  
Speed : 10,000 / 1500 rpm  
Output : 10,025 kW

#### **ALTERNATOR**

Manufacture : Smit

Year of construction	:	1966
Type	:	DG 165/135
Output	:	12,688 kVA
Power factor	:	0.8
Voltage	:	10.5 kV
Current	:	697 A
Isolation class	:	B/F
Speed	:	1500 rpm
Excitation	:	74 V – 610 A

#### EXCITER

Type	:	G 30/32
Voltage	:	74 V
Current	:	610 A
Output	:	45.1 kW-cont..

#### ORIGINAL PERFORMANCE FIGURES WHEN OPERATING AT 60 BAR / 480 °C LIVE STEAM, 26 BAR EXTRACTION AND 5.5 BAR BACKPRESSURE

Output	9529	8778	6961	kW
Steam flow	70	70	60	t/h
Extraction flow	0.0	9.97	9.97	t/h
Spec. steam consumption		7.35	7.97	8.62kg/kWh

#### PRESENT PERFORMANCE FIGURES WHEN OPERATING AT 60 BAR / 500 °C LIVE STEAM AND 3.5 BAR BACKPRESSURE

Output		9400	6900	kW
Steam flow		60	45	t/h
Spec. steam consumption			6.38	6.52kg/kWh

#### EFFICIENCY ALTERNATOR

Load points	4/4	3/4	2/4	1/4	
Efficiency alternator - p.f.=0.8	97.4	97.0	96.0	93.4	%
Efficiency alternator - p.f.=0.9	97.6	97.2	96.1	93.5	%

Efficiency alternator - p.f.=1.0	97.9	97.4	96.3	93.6	%
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### SCOPE OF SUPPLY:

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

- Turbine;
- Gearbox with turning gear (oil hydraulic);
- Alternator with compound exciter;
- Base plates for turbine, gearbox and alternator;
- Alternator air coolers;
- Electrical installation;
- Oil unit with tank (6300 ltr.) pumps, coolers, filter, fine filter and oil vapour fan;
- Gland steam condenser;
- Control cabinets;
- Instrumentation;
- Piping with valves and fittings;
- Spare parts and tools as far as available;
- Manuals, drawings and documentation as far as available;

### PRODUCT IMAGES :





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