



DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY

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18 MW BACK-PRESSURE STEAM TURBINE-



GENERATOR SET (WITH SINGLE CONTROLLED EXTRACTION)



Year of Manufacture : **1972**
Year Retired : **2006**
Condition : **Excellent**
Status : **Installed on foundation**
Notes : **This TG set was rerated by the OEM in 2003**

**NITIN CORPORATION,
MUMBAI, INDIA.**

**18 MW AEG Kanis
Extraction-Back Pressure STG Set**

TURBINE:

Manufacturer : AEG-Kanis, Germany

Type : Single cylinder, reaction steam turbine

Economical Rating : 13,200 kW

Maximum Continuous Rating: 18,000 kW

Rated Speed : 8,012 rpm

Normal Inlet Pressure : 58 bar abs

Maximum Continuous Inlet Pressure: 69 bar abs

Normal Inlet Temperature : 450 C

Maximum Continuous Inlet Temp.: 475 C

Normal Extraction Pressure : 11 bar abs

Rated Extraction Flow : 0 – 65,000 kg/h

Rated Exhaust Pressure : 3 bar abs

Minimum Continuous Exhaust Pressure : 2 bar abs

Maximum Continuous Exhaust Pressure : 6 bar abs

Inlet Flow @ 13,200 kW : 100,000 kg/h

Specific Steam Consumption (at Normal Rated Conditions, Zero extraction) : 7.58 kg/kWh



GEAR :

Manufacturer : Maag, Switzerland.

**NITIN CORPORATION,
MUMBAI, INDIA.**

Type : Double helical



**18 MW AEG-Kanis
Extraction-Back Pressure STG Set**

Rated Power : 18,000 kW
Input Speed : 8,012 rpm
Output Speed : 1,500 rpm
Ratio : 5.34:1

ALTERNATOR:

Manufacturer : AEG, Germany
Type : Two pole, brushless
AC generator
Apparent Power : 20,000 kVA
Power Factor : 0.9
Active Power : 18,000 kW
Rated Voltage : 6,300 V
Frequency : 50 Hz
Rated Speed : 1,500 RPM

