



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.

## **18 MW BACK-PRESSURE STEAM TURBINE-GENERATOR SET**



**Year of Manufacture** : **1972**  
**Year Retired** : **2006**  
**Condition** : **Excellent**  
**Status** : **Installed on foundation**  
**Note** : **This TG set was fitted with a new rotor assembly in 1975, having high efficiency (NIB Type) Blades.**

**NITIN CORPORATION,  
MUMBAI, INDIA.**

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

**TURBINE:**

**Manufacturer** : AEG-Kanis, Germany  
**Type** : Single cylinder, reaction steam turbine  
**Economical Rating** : 15,750 kW  
**Maximum Continuous Rating:** 18,100 kW  
**Rated Speed** : 8,012 rpm  
**Normal Inlet Pressure** : 58 bar abs  
**Maximum Continuous Inlet Pressure:** 69 bar abs  
**Normal Inlet Temperature** : 440 C  
**Maximum Continuous Inlet Temp.:** 475 C  
**Rated Exhaust Pressure** : 4 bar abs  
**Minimum Continuous Exhaust Pressure** : 3 bar abs  
**Maximum Continuous Exhaust Pressure** : 6 bar abs  
**Inlet Flow @ 13,200 kW** : 115,000 kg/h  
**Specific Steam Consumption (at Normal Rated Conditions, Zero extraction)** : 7.3 kg/kWh  
**GEAR :**  
**Manufacturer** : Maag, Switzerland.  
**Type** : Double helical  
**Rated Power** : 18,100 kW  
**NITIN CORPORATION, MUMBAI, INDIA.**  
**Input Speed** : 8,012 rpm



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

**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



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