



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.

## 2x 125 MW each, Condensing type Steam Turbine Generator Sets :

2 units of 125MW STU started operation in 1989 and 1990. Stop operation in 2007.

1. Shanghai Steam Turbine Factory made steam turbine model: N125-135/535/535

### Super high pressure, middle re-heat, twin cylinder, twin exhaust, condensation type.

Rated power : 125KW

Speed : 3000 rpm

Main steam pressure : 135 kg/cm<sup>2</sup>, max.140 kg/cm<sup>2</sup>,min 130 kg/cm<sup>2</sup>

Main steam temperature : normal 535°C, max: 555°C, min 520°C

High pressure cylinder exhaust pressure at rated working condition : 26 kg/cm<sup>2</sup>

High pressure cylinder exhaust temp at rated working condition : 319.5 °C

Cooling water temp : normal : 20°C, max. 33°C

Exhaust steam pressure : 0.05 kg/cm<sup>2</sup>

Reheat steam extraction stages low temp re-heater : 4

High pressure re-heater : 2

De-oxygenator : 1 unit

Boiler feed water temp at working condition 239.5°C

Stage no	1	2	3	4	5	6	7
Rated pressure	37	26	7.83	4.67	2.5	0.756	0.158
temp	362.5	319.5	386	321.2	251	137.2	54.6
Steam extraction kg/hr	17599	41735	7391	12906	20130	15392	888

Max vibration allowed under working speed:0.05mm

Weight : approx. 320 ton

Dimension : 13.5x7.4x5.4 m

End blade dimension : d2035/L700mm

Lub oil pressure : 0.8 to 1.5

Speed regulator oil pressure : 12

At oil pressure meter 12 , main oil pump oil flow: 4.5m<sup>3</sup>/min

Oil tank volume : 23 or 20 m<sup>3</sup>

Oil cooler : 3 sets model : YL-80-II orYL-0-I

Cooling surface : 8.0 60 m<sup>2</sup>

Cooling capacity : 250 150 ton/hr

Water side resistance 1.7m ( at water flow of 250ton/hr)

1. 0m ( at water flow of 150ton/hr)

2. Condensor model : N-7100-1

cooling surface : 7100 m<sup>2</sup>

weight without water : 135 ton

operation weight : 230 ton

cooling capacity : 18100 ton/hr

water resistance : 5.2 m water

max. working pressure at water chamber: 1.5kg/cm<sup>2</sup>

2. Jet water steam extractor : 2 sets,

Model : CS-480-25-3

working pressure : 3.6, water temp: 20

water consumption 480 ton/hr

3. steam re-heater; 1 set model: JC-26-1

re-heater water flow : 120 ton/hr

re-heater surface area : 26°C

pipe internal water flow : 1.25m/sec

4. Twin water cooled Generator ( 2 sets)

Rated power : 147KVA, p.f.:0.85

Voltage : 13800V, speed: 3000 rpm

Current : 6150A

Efficiency : 98.35%

OPERATION

**PRODUCT IMAGES :**





NITIN CORPORATION