

**NITIN CORPORATION**

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**THE FOLLOWING EXTRACTION CONDENSING TYPE STEAM TURBINE  
GENERATOR SET IS AVAILABLE FOR SALE WITH US WITH IMMEDIATE  
DELIVERY:**

**1 No. – 3000 kW TRIVENI (2007) make Extraction Condensing type Steam  
Turbine Generator set having the following technical specifications:**

**TECHNICAL SPECIFICATIONS:**

**TURBINE**

Make : Triveni  
Year of make : 2007  
Power Normal : 3000 KW  
Inlet Steam Pressure : 65 ATA  
Inlet Steam Temperature : 485°C  
Inlet Steam Flow : 19200 Kg/Hr  
Extraction Pressure : 9/10 ATA  
Extraction Flow : 8000 Kg/Hr  
Exhaust Pressure : 0.10 ATA  
Turbine Speed : 8325 RPM  
Alternator Speed : 1500 RPM  
Turbine Trip Speed Range : 9157/9575  
First Critical Speed Range : 3200/3600  
Steam Inlet Size : 8” NB 900# RF  
Direction of Rotation from  
Output Speed : Counter Clockwise

**GEAR BOX**

Make : TEIL  
Type : Single Helical  
Model : HSG 432  
Power : 3000 KW  
Input Speed : 8325 RPM  
Output Speed : 1500 RPM

**OIL SYSTEM**

Lubrication Oil : ISO-VG-46

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Oil Reservoir Capacity : 3000 LTR  
1<sup>st</sup> Fill Oil Requirement : 6000 LTR  
Lube Oil Pressure Range : 1.8 -2 Kg/cm<sup>2</sup>g  
Control Oil Pressure : 4.5/5.5 Kg/cm<sup>2</sup>g

#### **MAIN LUBRICATING OIL PUMP**

Make : TEIL  
Type : Geared  
Capacity : 55 IGPM  
Driver : Gear Box

#### **A.C. AUXILIARY OIL PUMP (BT0750138)**

Make : Rotodel  
Model : RDNX 200L RHS  
Type : Geared  
Capacity : 55 IGPM  
Speed : 1440 RPM  
Motor : 10 HP

#### **EMERGENCY OIL PUMP (BT0750154)**

Make : Rotodel  
Model : RDNX 1 25 L  
Type : Geared  
Capacity : 15 IGPM  
Motor : 2 DC Supply HP

#### **CONTROL OIL FILTER (BT0150042)**

Make : Industrial Enterprises (IEH 1435)  
Model : Simplex  
Capacity : 8 IGPM  
Grade of Filtration : 15 Microns  
Elements No. : 8-04

#### **EOP FILTER (BT0150020)**

Make : Industrial Enterprises (IEH 1427)  
Model : Simplex  
Capacity : 15 IGPM  
Grade of filtration : 15 Microns  
Elements No. : 15-10

#### **PRESSURE RELIEF VALVE (MOP) IMO190012)**

Make : Hopkinsons, U.K.  
Duty : Control Oil  
Size Inlet / Outlet : ½" NB  
Set Pressure : 6.05 Kg/cm<sup>2</sup>g  
Discharge Capacity : 15 IGPM

#### **PRESSURE RELIEF VALVE (AOP) VLO100035)**

Make : Nirmal  
Duty : Control Oil

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Size Inlet / Outlet : 40NB-ANSI 150 # RF  
Set Pressure : 5.90 Kg/cm<sup>2</sup>g  
Discharge Capacity : 15 IGPM

**PRESSURE RELIEF VALVE – LUBE OIL (IMO190006)**

Make : Hopkinsons, U.K  
Duty : Lube Oil  
Size Inlet/ Outlet : 1” NB  
Set Pressure : 1.80 Kg/cm<sup>2</sup>g  
Discharge Capacity : 10 IGPM

**ACCUMULATOR (BT0220001)**

Make : Fawcet – India  
Model : 2000A-00-201  
Pre Charged Pr. : 3.9 Kg/cm<sup>2</sup>g  
Capacity : 20 Ltr

**SOLENOID VALVE**

Make : ASCO  
Volts : 110 DC  
Connection : 3 / 4 “ NPT  
Action : De Energise to Trip

**THROTTLE VALVE LIFT**

Throttle Valve Lift No. 1 : 35mm  
Throttle Valve Lift No. 2 : 17mm  
Throttle Valve Lift No. 3 : 5mm  
Throttle Lift (available) : 57.00mm  
Pass-out valve Lift : 25.50

**ALTERNATOR**

Make : TDPS  
Output : 3750 kVA  
Year of Make : 2007  
Frame : TC 110  
No of Phase : 3  
No. of Poles : 4  
Frequency : 50 Hz  
Voltage : 11000 V  
P.F : 0.8  
Speed : 1500 RPM  
Limiting Speed : 1800 RPM  
Amps : 262  
Type of Stator Connection : Star  
Exc. Voltage : 151 V  
Exc. Current : 232 A  
Weight : 15 MT  
Enclosure System : IP 54  
Cooling System : IC 8AW7  
Coolant Temp. : 32°C

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**SCOPE OF SUPPLY:**

1. 3 MW Turbine with Gearbox mounted on Lube Oil Tank.
2. 3750 kVA TDPS make Alternator.
3. Alternator Cooler.
4. 2 Nos. Condensate Extraction Pumps with Motors.
5. Exhaust Bellow with distance piece.
6. Condenser.
7. Ejector with connected pipings.
8. Emergency Oil Pump with Motor.
9. Auxiliary Oil Pump with Motor.
10. Gland Vent Condenser.
11. 2 Nos. Actuators.
12. Accumulator.
13. Control Oil Filter.
14. High Speed and Low Speed Couplings.

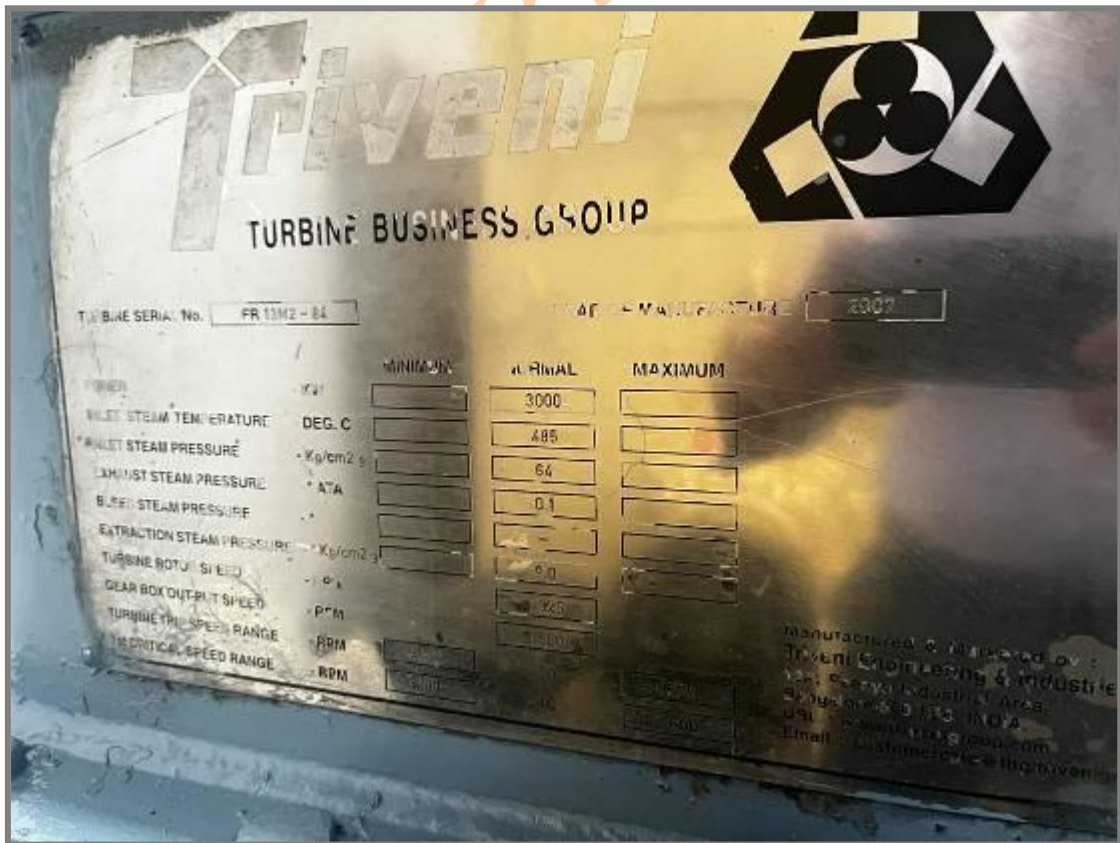
Exclusions: Cables, Oil Coolers, Oil Filters & Electrical Panels are not available.

**PHOTOS:**



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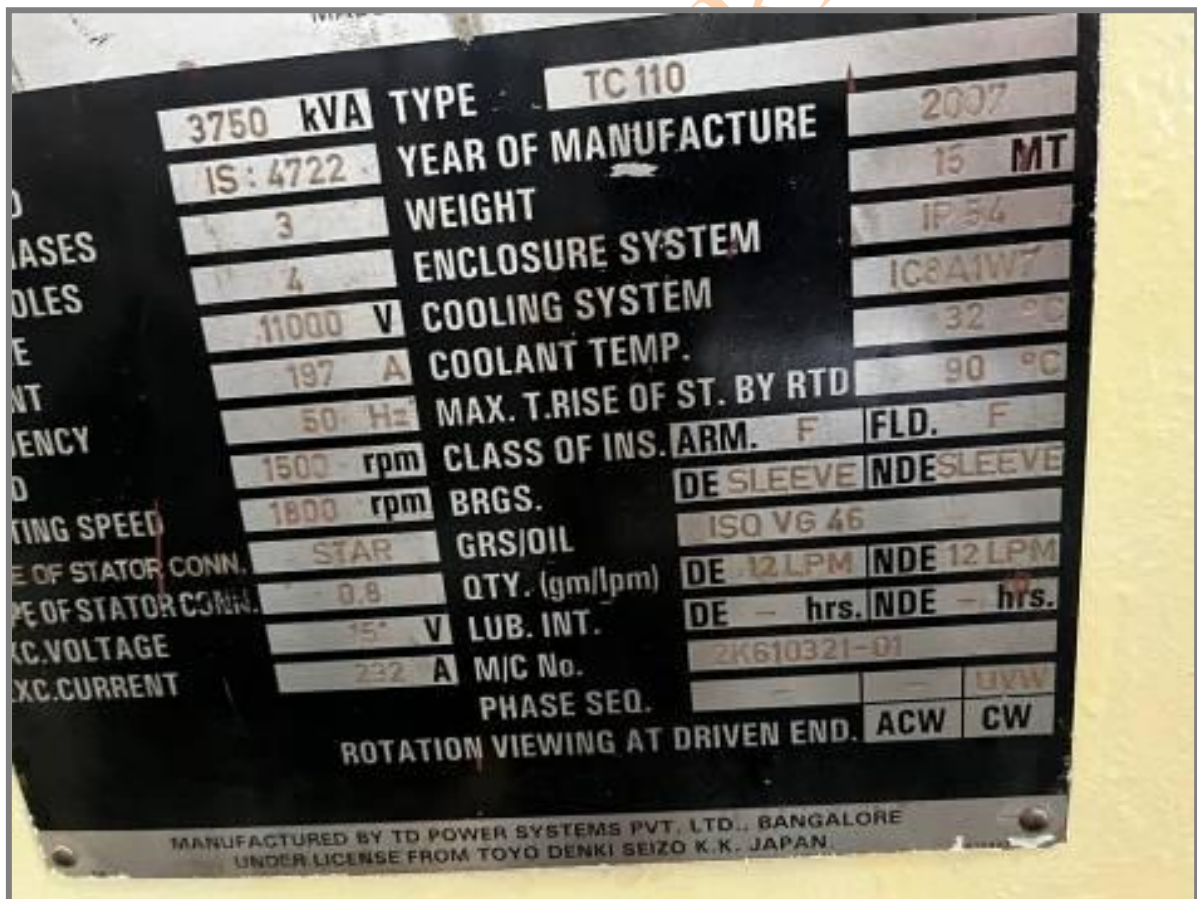
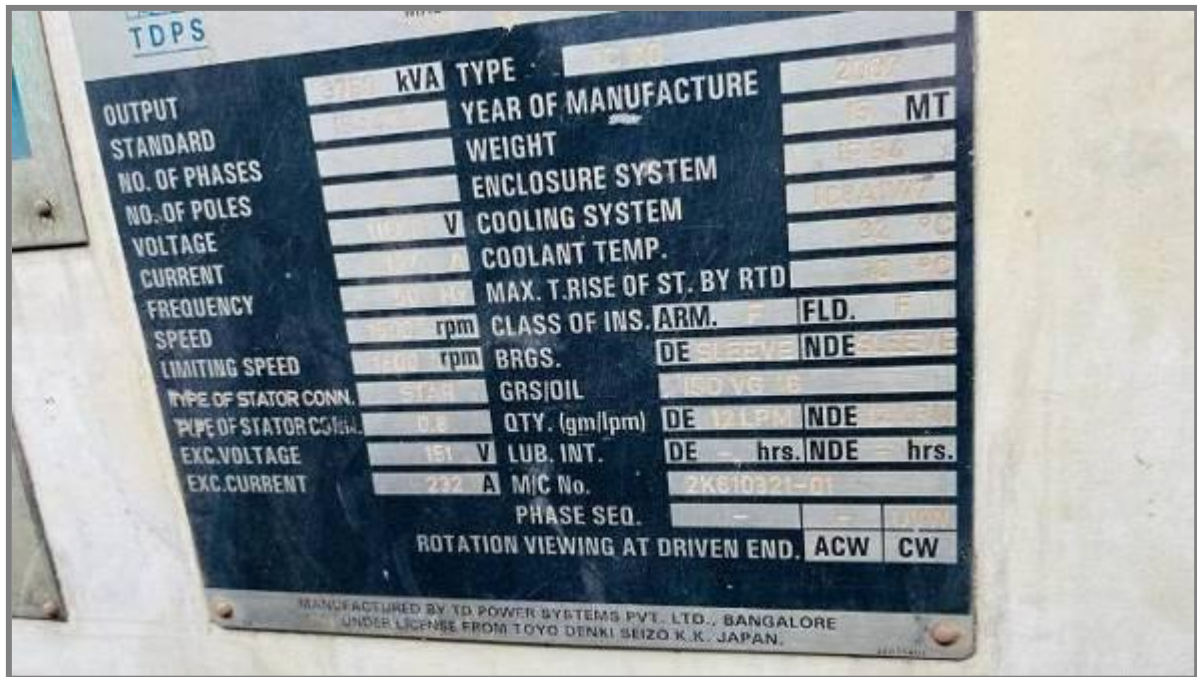


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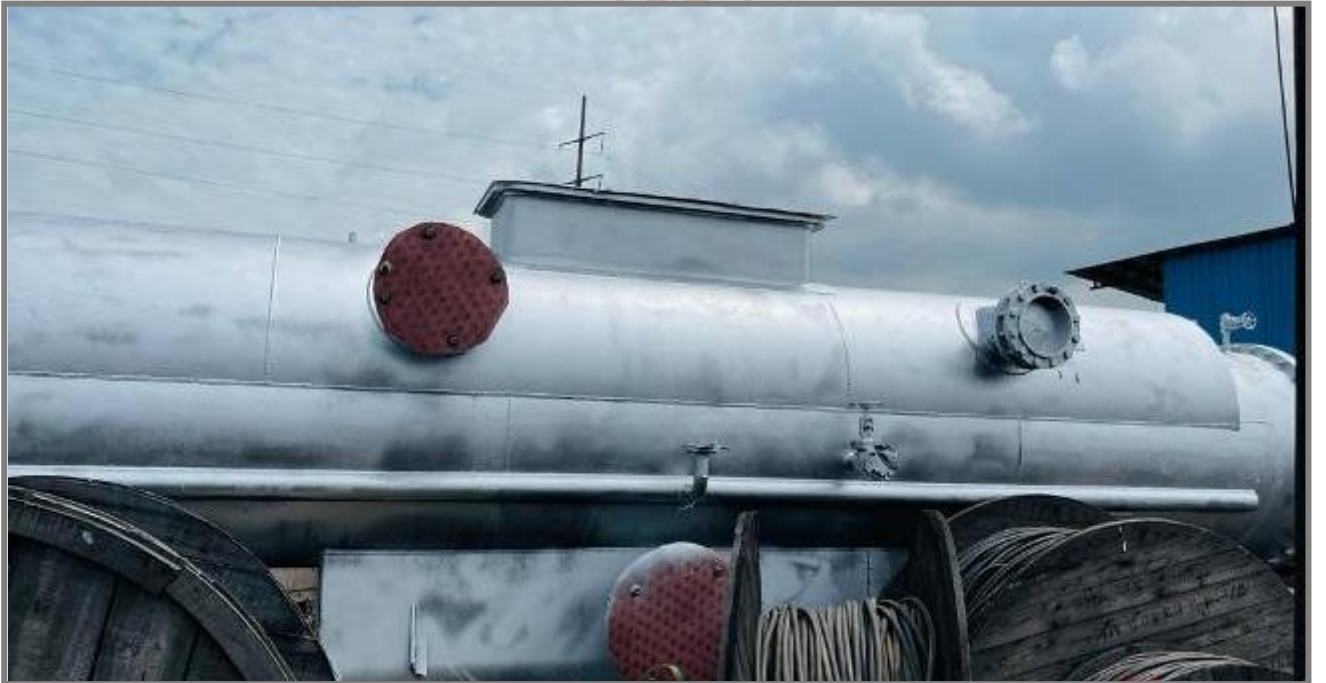




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