

**NITIN CORPORATION**

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**THE FOLLOWING POWER PLANT IS AVAILABLE FOR SALE WITH US WITH IMMEDIATE DELIVERY:**

**1 No.20 MW Biomass based POWER PLANT, having the Following Technical Specifications:**

**POWER PLANT INFORMATION:**

20 MW biomass based power plant with bleed cum condensing turbo generator and a 80 TPH, 66 ata, 490°C+-5° C steam generator along with other auxiliaries.

**METEOROLOGICAL DATA:**

Max. Temperature recorded in a day : 46.0 °C  
Minimum temperature recorded in a day : 09.0 °C  
Average Maximum Temperature : 40.0 °C  
Average Minimum Temperature : 17.0 °C

**BOILER DETAILS:**

Make : WalchandnagarBoiler Pune Ltd  
Capacity : 80 Ton /Hr  
Type : Water Tube, Bi-Drum & Travelling Grate  
Working Pressure : 66 kg/sq. cm  
Working Temperature : 490 ± 5 Deg.C  
Economiser Inlet Temperature : 160 Deg. C  
Flue Gas outlet Temperature : 150 Deg.C

**TURBINE DETAILS:**

Make : Hangzhou Steam Turbine Co. Ltd, China  
Model : WT9513-1  
Type : Bleed- Condensing Turbine  
Rated Power : 20000 KW  
Inlet Steam Pressure : 64 kg/sq. cm  
Inlet Steam Temp : 480 Deg.C  
Bleed Steam Pressure : 7.47 ATA  
Bleed Steam Flow : 6570 Kg/Hr

Exhaust Pressure : 0.15 ATA  
 Turbine Speed : 3000 RPM  
 Vacuum : -0.95  
 Alternator Speed : 3000 RPM

**FUEL DETAILS:**

Type : Baggase / Biomass  
 Calorific Value : 2000 / 3000  
 SP Fuel Consumption : 1.914MT/MW / 1.1453

**AUXILIARY POWER** : 10% / 10%

**PLANT HEAT RATE** : 3828 / 3435.9

**NET PLANT HEAT RATE** : 4253.33 / 3817.66

**BIOMASS LOGISTICS FUNCTION DETAILS:**

- Procurement of Rice Husk, Fire wood & Baggase
- Procurement of cotton steam's and agrowaste .
- Sourcing the plywood waste, silver oak scrap, Arecanut shell and coffee husk
- Procurement of Juliflora and acacia woods
- Procurement of woods
- The waste ash generated from our plant for manure

**RAW MATERIALS REQUIREMENT & STORAGE DETAILS:**

RAWMATERIALS		STORAGE CAPACITY
BIO MASS		
Tapioca Steam Coconut Residue Rice Husk Bagasse	800 TPD	Closed storage 6000 MT Open yard 20000 MT
Mixed wood Other Agro waste		

**ENVIRONMENT MANAGEMENT PLAN DETAILS:**

ENVIRONMENT	MANAGEMENT PLAN
AIR	Electro static Precipitator Periodical Ambient Air quality Monitoring

Noise Environment	PPE provided to Applicable workers like Ear Plug and Ear Muff etc Silencers, Acoustics Enclosure Periodical Monitoring Green Belt Development
Water	No Process Effluent. STP for Domestic Sewage, treated water used for Green Belt Development
Land	No process Waste Stored Fly Ash Sent to Cement and Brick Manufacturer.

**PHOTOS:**

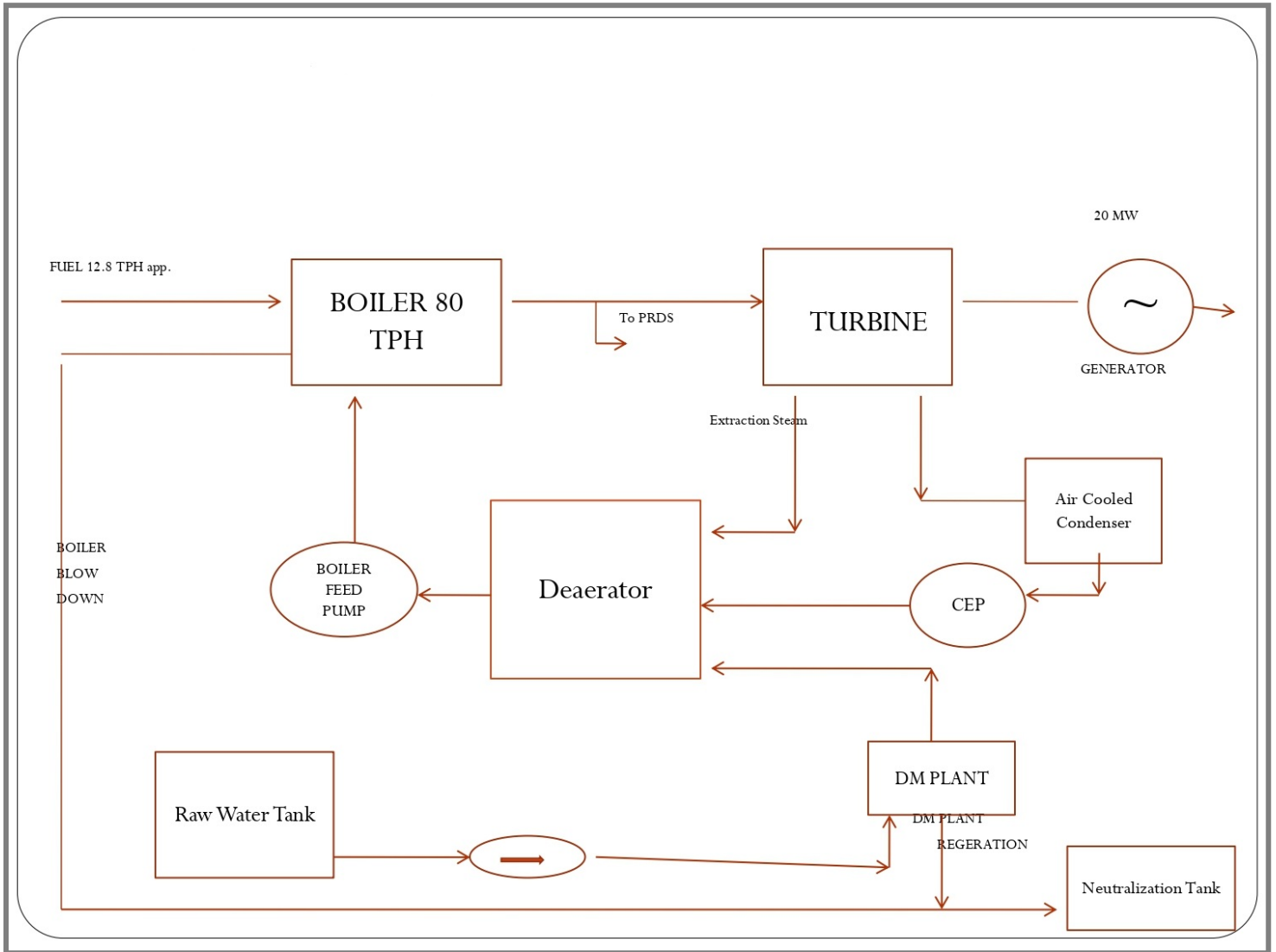






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**PROCESS FLOW DIAGRAM:**



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