

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 turbine generator set and a 100 Kg/cm², 525°C steam boiler along with other auxiliaries.

METEOROLOGICAL DATA:

Max. Temperature recorded in a day : 43.0 °C
Minimum temperature recorded in a day : 20.0 °C
Average Maximum Temperature : 40.0 °C
Average Minimum Temperature : 23.0 °C

BOILER DETAILS:

Make : WalchandnagarInds. Ltd. (Pune)
Capacity : 100 Ton /Hr
Peak Capacity : 110 Ton /Hr
Type : Water Tube, Single-Drum & Travelling Grate
Boiler Heating Surface Area : 4604 m²
Working Pressure : 106 kg/sq. cm
Working Temperature : 525 ± 5 Deg.C
Economiser Inlet Tem : 150 Deg. C
Flue Gas outlet Temperature : 155 Deg.C

TURBINE DETAILS:

Make : Hangzhou Steam Turbine Co. Ltd, China
Type : HNK 40/56/0
Rated Power : 20000 KW
First Critical Speed : 3130 RPM
Inlet Steam Pressure : 100 kg/sq. cm

Inlet Steam Temp : 520 Deg.C
Inlet Steam Flow Normal : 78 T/Hr
Exhaust Pressure : -0.15 Kg/sq cm

GENERATOR DETAILS:

Make : VA TECH HYDRO
Type : HTM-012Z04
(Air Cooled - 3 Phase Synchronous Turbo Generator)
Rated Output : 31250 KVA
Rated Voltage : 11000 V
Rated Frequency : 50 HZ
Rated Power Factor : 0.8
Rated Speed : 1500 RPM

FEED WATER PUMP DETAILS:

Make : KIRLOSKAR EBARA PUMPS LTD
Type : RING SECTION
Model / Size : 125 X 100 (B) SS 11M
Pumping Head : 1381 M
Rate of Flow : 121.5 CU.M/Hr
Speed : 2973 rpm
Motor KW : 655 KW
Voltage : 11000 V

WOODCHIPPER DETAILS:

Make : KIRAN ENGINEERING SERVICES
Type : DISC -CONVEYOR FEEDING- FIY KNIFE
Capacity : 15 T/Hr
Rated Power : 187 KW
No of Chipper : 4 Nos

ESP DETAILS

Make : ADOR POWERTRON LIMITED,PUNE
Type : FAA-2 X 37.5 M-5670-2
Gas Flow Rate : 39.1 CU.M/SEC
Temperature : 150 Deg. C
Inlet Dust Concentration : 5.0 gm/Nm³
Outlet Dust Concentration : 150 mgm /Nm³
No of Precipitator : 2

AIRCOOLED CONDENSER DETAILS:

ACC Make : Greenesol Power Systems Pvt Ltd
CE Pump & Motor Mfr : Sulzer Pumps (I) Ltd
Capacity Min/Nor/Max : 50.8/78.6/89 m³
Pumping Temp : 57.38 Deg C
Output : Up to 315 kW

Type of Enclosure : Totally Enclosed Fan Cooled; Totally Enclosed; Drip Proof; Flame Proof; Increased Safety; Non Sparking Pressurised Type

Type of Rotor : Squirrel Cagee Slipring

Mounting : Foot Mounting, Flange Mounting& Face Mounting

BIOMASS LOGISTICS FUNCTION DETAILS:

Juliflora : Plenty available.

Agricultural waste : It is a seasonal fuel

Match Box waste : Available

Ply wood waste : Available

Wood Skin : Available

Raw Material Requirement per day : 500MT's

Raw Material Storage Area : Closed Area 8000 Sq. Mtr
Open Area 15000 Sq.Mtr

BIOMASS PROCUREMENT DETAILS:

MONTH	2010 – 2011	2011 – 2012	2012 – 2013	2013 – 2014	2014 - 2015
APRIL	8116.88	5890.86	2490.28	5854.810	4851.140
MAY	7085.74	6554.55	1755.44	5283.000	5032.930
JUNE	7842.21	8443.54	4909.41	2256.690	3715.900
JULY	7584.87	8203.29	6232.3	2314.360	2740.020
AUGUST	4455.33	6294.81	5764.26	5513.300	1050.680
SEPTEMBER	2837.93	2149.9	4294.61	7358.360	1941.100
OCTOBER	2814.28	1507.48	3983.69	4438.890	995.410
NOVEMBER	1917.33	1135.77	958.18	1673.680	1834.270
DECEMBER	3503.05	502.57	6262.36	1636.520	1086.640
JANUARY	3674.2	781.33	7363.64	3551.460	516.460
FEBRUARY	4866.08	723.54	6354.89	3666.710	4903.780

MARCH	6346.36	2163.53	6164.15	3875.820	4637.46
TOTAL	61044.26	44351.17	56533.21	47423.600	33305.790

RAW MATERIALS REQUIREMENT & STORAGE DETAILS:

RAWMATERIALS		STORAGE CAPACITY
BIO MASS Tapioca SteamRice Husk Bagasse Veneer waste Mango pulp waste Mixed wood other Agro waste	300 TPD	Closed storage 3000 MT Open yard 30000 MT
COAL	150 TPD	Closed storage 500 MT

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.

PLANT PERFORMANCE DATA DETAILS:

Month	Generation	Export
2006-07	85807300	74850000
2007-08	86983000	74656000

2008-09	46766000	38253000
2010-11	1012312500	853544200
2011-12	69984800	60333600
2012-13	72689000	62481027
2013-14	59823000	50517200
2014-15	21319000	16948600
2015-16	10322000	8284800
2016-17	38011100	33988800
2017-18	58653400	51334400

Continuous load	18MW
AUX POWER	11%
Average GCV	2709kcal/kg
Sp fuel consumption	1.63kg/kwh

PHOTOS:









OK





Transmission Lines



Switch Yard



Transformer



Air Cooled Condenser



TG Floor



Boiler



ESP



Chimney

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Belt Conveyor



Belt Conveyor



Bunker



Aux. Transformer

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Flue Gas In



Flue Gas Out



Screw Conveyor in ESP



Boiler Second Pass



Deaerator & Cooling Tower



PA & SA Fans



Control Room



Battery Room

N



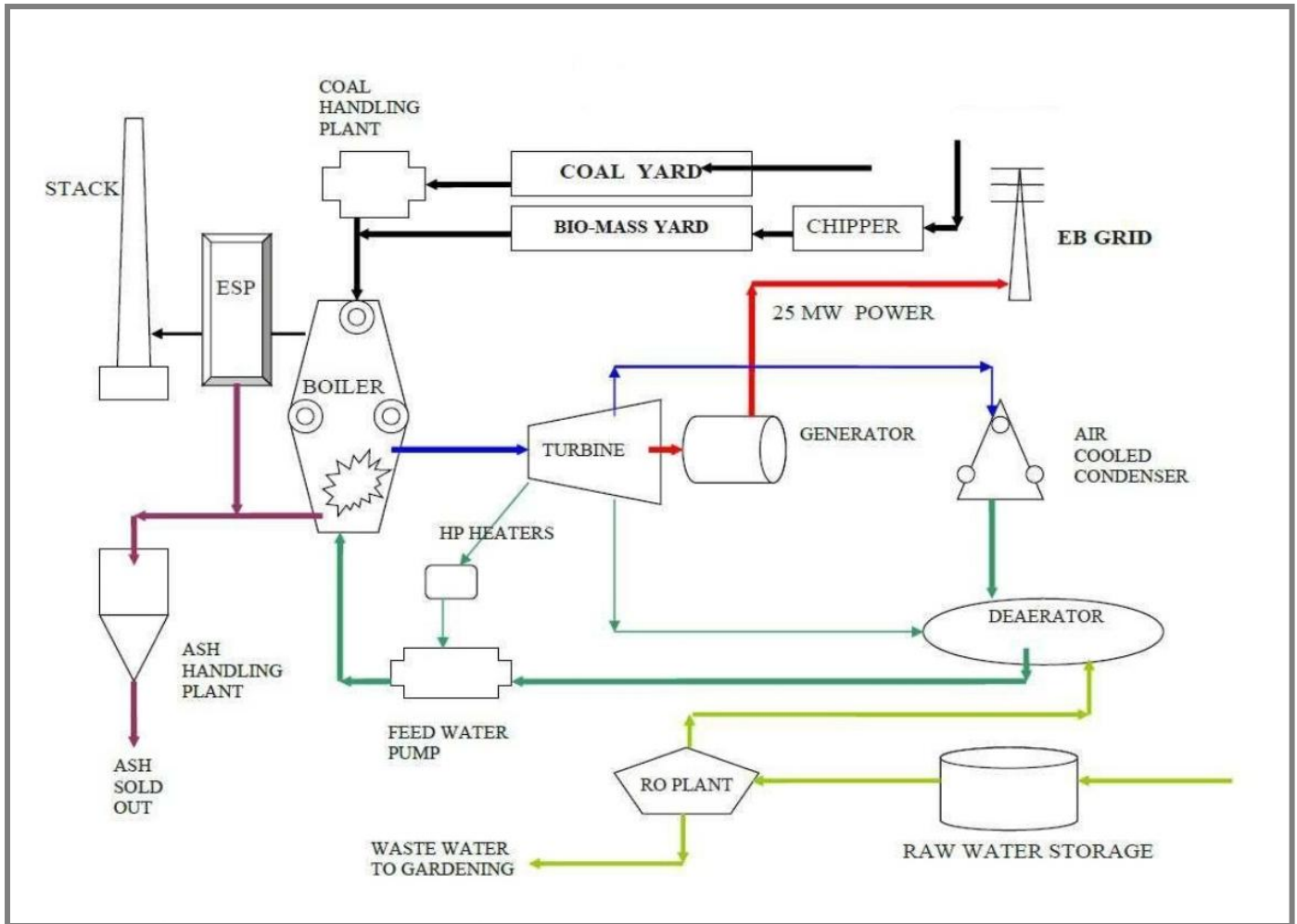
RO Plant



Open Yard

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PROCESS FLOW DIAGRAM:



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