

**NITIN CORPORATION**

402, 4<sup>th</sup> Floor,  
Bezzola Commercial Complex,  
V.N. Purav Marg,  
Sion – Trombay Road,  
Chembur, Mumbai – 400071,  
India.

WEB: [www.corponit.com](http://www.corponit.com)

E – MAIL: [enquiry@corponit.com](mailto:enquiry@corponit.com)  
[nitincorporation@yahoo.com](mailto:nitincorporation@yahoo.com)

FAX : +91 - 22 - 25235386  
PH (O): +91 - 22 - 25234478

**1 No. 25 MW NEW BAGASSE FIRED POWER PLANT AVAILABLE FOR  
IMMEDIATE SALE****Technical Details:**

<b>Turbine and Accessories</b>	1 No.	
Make		Hangzhou Steam Turbine Co. - China
<b>Turbogenerator Make</b>	1 No.	Nanyang Explosion Protection Group Co. Ltd. - China
Capacity		25.00 MW .
Design		Triple extraction cum condensing
Steam inlet parameters		105 ata and 510 Deg. C. ( But the Turbine was designed for 540 Deg C)
		9 ata, 20 ata extraction-uncontrolled extraction
		3 ata - controlled extraction
Extraction Steam flow at Normal condition		
9 ata		5 TPH
3 ata		30 TPH
Power Generation at Extraction Mode		22.90 MW
Power Generation in Condensing Mode		25.00 MW

<b>Boiler</b>	1 No.	
Make		Cethar Vessels (P) Ltd. - Thiruchirapalli
Capacity		110 TPH
Type		CFBC

**NITIN CORPORATION  
MUMBAI.**

Feed water inlet temperature		210 Deg.C.
Steam outlet parameters		108 ata and 510 + 0 - 5 Deg.C at the main steam stop valve outlet.

<b>Cooling Tower</b>	1 No.	
Make		Paharpur Cooling Tower LTD - Cul
Capacity per cell		3000 Cu.m/hr
No. of cell operating / standby		Two (2)
Hot water temperature		42 Deg.C
Cold water temperature		32 Deg.C
Design ambient Wet bulb temperature		27 Deg.C

<b>Water Treatment Plant</b>	1 No.	
Make		DOSHION LIMITED
Capacity		39 M3/hr
Solid contact clarifier flow rate		220 cu.m/hr.
Multigrade Filter flow rate		65 cu.m
Weak Acid cation exchanger flow rate		65 cu.m.
UF permeate flow rate		65 cu.m/hr.
RO plant flow rate		39 cu.m./hr.
Permeate output		780 cu.m./day in 20 hrs.
Cation and Anion exchanger flow rate		39 cu.m./hr with an OBR of 780 cu.m in 20-4 cycle of operation.
Mixed bed system flow rate		39 cu.m./hr. with an OBR of 5460 cu.m

<b>Dense Phase Ash Handling System</b>	1 No.	
Make		Macawber Beekay Pvt Ltd - New Delhi
Designed for		1 x 110 TPH CFBC
Pneumatic handling system for		Bed ash cooler, Economiser, Air Pre-Heaters and ESP hoppers

<b>Fuel &amp; Ash Handling System</b>		
Make		TECPRO SYSTEMS LIMITED
		BELT CONVEYOR B-1
		COAL BELT CONVEYOR CBC-1
		COAL BELT CONVEYOR CBC-2
		COAL BELT CONVEYOR CBC-3
		COAL BELT CONVEYOR CBC-4

**NITIN CORPORATION  
MUMBAI.**

		COAL BELT CONVEYOR CBC-5
		COAL BELT CONVEYOR CBC-6
		SLAT CHAIN CONVEYOR SC-2
		SLAT CHAIN ELEVATOR (TC-1)
		SLAT CHAIN ELEVATOR (TC-2)

<b>LT Package</b>		
Make		ABB Ltd
LT Package Consist of	1 No.	PCC Section - 1
	1 No.	PCC Section - 2
	1 No.	Boiler MCC (MCC-1)
	1 No.	Boiler Valve Distribution MCC - I (MCC-2)
	1 No.	Boiler Valve Distribution MCC - II (MCC-3)
	1 No.	Soot Blower (MCC-4)
	1 No.	ESP MCC (MCC-5)
	1 No.	TG MCC (MCC-6)
	1 No.	RO Plant MCC - I (MCC-7 )
	1 No.	RO Plant MCC - II (MCC-8 )
	1 No.	Auxiliary MCC ( MCC-9 )
	1 No.	Water System MCC ( MCC-10 )
	1 No.	Bagasse & Ash Handling
	1 No.	System MCC (MCC-11 )
	1 No.	Coal Handling System MCC (MCC-12 )
	1 No.	Air Conditioning System MCC ( MCC - 13)
	1 No.	Main Lighting Distirbution Board
	1 No.	BFP Change over Panel

<b>VFD Package</b>		
Make		ABB Ltd
	3 Nos	Boiler Feed Pump - ( 600 kW, Type-I (ACB VFD), Drive Model ACS800-04-0770-3
	4 Nos	ID Fan - (275 kW, Type-II (VFD with Standby) Drive Model ACS800-04-0400-3
	3 Nos	MCW Pump ( 250 kW, Type-II (VFD with Standby) Drive Model ACS800-04-0400-3
	2 Nos	PA Fan ] ( 250 kW, Type-II (VFD with Standby) Drive Model ACS800-04-0400-3
	2 Nos	SA Fan ( 160 kW, Type-II (VFD with Standby

**NITIN CORPORATION  
MUMBAI.**

		drive )
		Drive Model ACS800-04-0260-3
	2 Nos	Cooling Tower Fan ( 55 kW, Type-II (VFD with Standby drive and
		Drive Model ACS800-04-0070-3
	2 Nos	Air Compressor ( 55 kW, Type-II (VFD with Standby)
		9-26042-900-0054, Sheet 07 of 11, Rev.1 )
		Drive Model ACS800-04-0100-3

<b>110/11 KV Sub-Station</b>		
Make		ABB Ltd
System Voltage		110 kV rms
Highest system voltage		123 kV rms
Power frequency withstand capability		230 kV rms
Basic insulation level		550 kV peak
Creepage distance for insulators		25 mm/kV

<b>Distributed Digital Control System - DCS</b>		
Make		YOKOGAWA INDIA LTD
Provided for		Boiler, Turbine, Generator and its auxiliaries, Balance of plant, RO plant, compressor, electrical breakers etc.

<b>Transformers</b>		
<b>Generator Transformer</b>	1 no	
Maximum Continuous Rating (MVA) at ONAN/ONAF		
HV		25/31.5
LV		25/31.5
<b>Rated Voltage</b>		
HV Winding		110
LV Winding		11
<b>Converter Transformer</b>	1 no	
Maximum Continuous Rating (MVA) at ONAN/ONAF		

**NITIN CORPORATION  
MUMBAI.**

HV		4.00
LV		2.00/2.00
Rated Voltage		
HV Winding		11
LV Winding		0.433/0.433

<b>Compressor</b>		
Make		Kirloskar Pneumatic Company Limited
Quantity	2 Nos.	
Rated Flow for each compressor		450 Ncum/hr
Suction Pressure		1.0100 Kg/Sq.cm
Suction Temperature		Minimum : 25 Deg.C
		Maximum : 41 Deg.C
		Average : 30 Deg.C
		Design : 40 Deg.C
Discharge Pressure at Air Drier Outlet		7 Kg/Sq.cm.(g) at 100% capacity
	2 Nos.	The compressor reciprocating, non-lubricated, horizontal, double acting, two stage compressor assembly with belt drive and slide rails. The compressor is water cooled from external source. (Both Working)
	2 Nos.	TEFC squirrel cage, energy efficient, electric motors suitable for VFD as well as DOL starter.
	2 Nos.	Air receiver of capacity 2 cu.m with foundation bolts, timer operated auto drain valve with bypass arrangement, pressure gauge, temperature gauge, pressure switches, safety valve etc.
	1 No.	Refrigerated type air dryer with evaporator, capillary tube, Hot gas bypass valve, filter / dryer, condenser, compressor, accumulator, water separator with drain and other accessories.

<b>Cooling Tower make up water Pump</b>		
Make		KSB
Quantity	2 Nos.	
Model		CPK GC 125-250
Pump Type		End Suction
Fluid		Raw Water
Fluid Temperature		40 Deg.C

**NITIN CORPORATION  
MUMBAI.**

Design temperature		120 Deg.C
Normal Flow		122 Cu.M/hr
Rated Flow		136 Cu.M/hr
Make		KSB
Quantity	3 Nos.	
Model		CPK C 80-400
Pump Type		End Suction
Fluid		DM Water
Fluid Temperature		40 Deg.C
Design temperature		120 Deg.C
Normal Flow		27 Cu.M/hr
Rated Flow		30 Cu.M/hr

<b>VERTICAL TURBINE PUMPS</b>		
Service		Condenser Main circulating water pump
Make		WPIL
Quantity	2 W + 1 S	
Model / Size		C30TC
Pump Type		Vertical Turbine
Fluid		Water
Fluid Temperature		34 Deg.C
Design temperature		90 Deg.C
Normal Flow		2376 Cu.M/hr
Rated Flow		2640 Cu.M/hr
Service		Auxiliary cooling water pump
Make		WPIL
Quantity	1 W + 1 S	
Model / Size		C18TC
Pump Type		Vertical Turbine
Fluid		Water
Fluid Temperature		34 Deg.C
Design temperature		90 Deg.C
Normal Flow		648 Cu.M/hr
Rated Flow		720 Cu.M/hr
Service		Raw water Transfer pump
Make		WPIL

**NITIN CORPORATION  
MUMBAI.**



Quantity	1W + 1 S	
Model / Size		GM12TC
Pump Type		Vertical Turbine
Fluid		Water
Fluid Temperature		34 Deg.C
Design temperature		90 Deg.C
Normal Flow		216 Cu.M/hr
Rated Flow		240 Cu.M/hr

<b>Piping System</b>		
Make	1 lot	UNITECH MACHINES LIMITED
		Piping system & appurtenances,
		tanks & vessels and thermal insulation

**PHOTOGRAPHS:**



**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**





**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**



**NITIN CORPORATION  
MUMBAI.**





NITIN

**NITIN CORPORATION  
MUMBAI.**