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

**1 No. – 18 MW Wuxi Huaguang Boiler Co./ Siemens (2010) make Biomass fired
Power Plant as per the following Technical specifications:**

TECHNICAL SPECIFICATIONS:

Details of 18 MW Bio Mass Power Plant:

1. The Bio Mass power Plant of 18 MW rating has been designed to use forest wood as fuel for the Boiler. Fuel, wood, received in the form of logs are designed to be processed (cut using band saw machines, and chipped) into splinters, suitable for use in the boiler. Wood chipping equipment is available at site.
2. Processed wood is fed into a troughed type belt conveyor which will carry the fuel to the boiler.
3. The Boiler used at site is a 77 TPH (169756 lb/hr), unit made in China by Wuxi Huaguang Boiler Co., in the year 2010. The heating surface is 5418 sq metres (58258 sq ft), with a steam temperature of 525 Dec C. There are 6 grate openings for the boiler. The boiler is supported by an Electro static Precipitator (ESP) to control the particulate matter and the smoke generated is let into the atmosphere through a stack (chimney).
4. Boiler Auxiliaries include a water storage system, with water filtration and purification (Water Treatment Plant) system, Boiler feed pumps, FD (Forced Draft) fans and ID (Induced Draft) fans and Pollution monitoring and control systems.
5. Steam raised in the boiler is fed to a multi-stage steam turbine, which is coupled to an alternator through a gear box and coupling. The Turbo-generator, it lubricating systems, electrical and Hydraulic systems, and auxiliaries like air compressor are housed in the TG house. The entire operation of the Power Plant and TG are centrally controlled using a DCS control system, with elaborate control panels, monitors and consoles housed in a special enclosure in the Turbo Generator House.
6. The Alternator (generator) in the Turbo-generator system generates power, which is fed to the EB grid.
7. Ash generated during operation of the boiler is collected and handled using an ash-handling system.
8. Utilities in the form of DG sets, Air compressors, water storage tanks, have also been provided in the Power Plant.

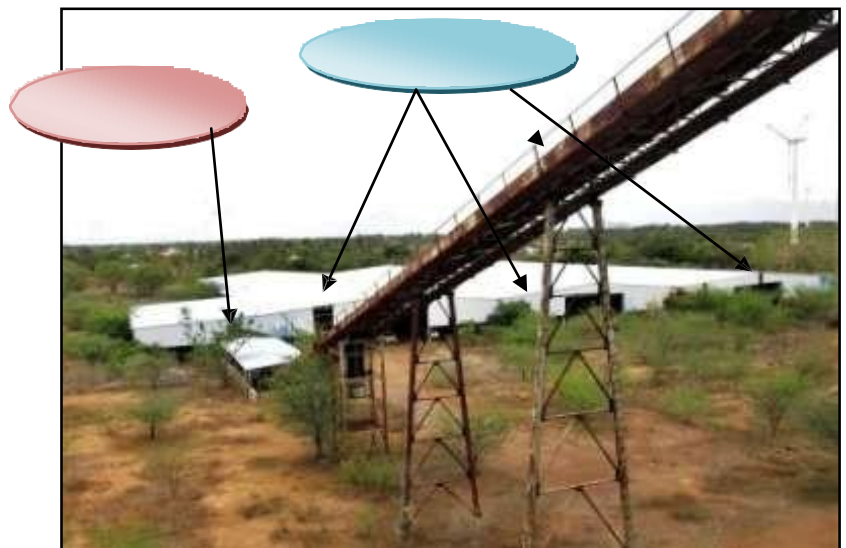
Details of Plant and Machinery	
I.	Boiler & Auxiliaries:
	Boiler - 70TPH, 86 KG/sq.cm, Complete with super heater, economiser, air Pre- heater, piping, insulation, valves and other Ancillaries - Huagong Chinese make, Sl.no, 10045, year 2010
	Boiler Feed Water Pumps - 1 & 2 - with 450 KW, 11 KV Motor, 80 Cu.M/hr, 100 kg/sq.cm
	FD / SA Fans - 2 x 240 KW,
	ID Fan - Drive 2600 KW, Variable speed
	De-aerator Cap-70 TPH, Ejector & Aux Equip of Boiler
	Screw Conveyor with Bunker and hopper system for bottom ash removal
	Air and Flue Gas Duct work with insulation and Cladding
II.	Electro Static Precipitator (ESP) for Dust Collection
III.	Boiler Chimney
IV.	Air Cooled Condenser:
	4 Cell arrangement, Al. fins, wind wall, with fan of 110 KW per cell, Variable speed with Gearbox complete supported on RCC Column and Beams.
V.	Turbine and Generator System:
	Steam Turbine - 18 MW - 7500 RPM, Complete with Casing, rotor, bearing, governors, Siemens Make, S.No. 320-10-226, Yr,2010
	Gear Box 7500 / 1500 RPM, Capacity 19 MW, make Flender, Yr. 2010
	Lube Oil Unit with Coolers, with pumps and oil purification unit.
	Generator - 22.5 MVA, 11 KV, make - Toyo Denki, S. No 10041101/01, yr 2010
	Neutral Earthing for Generator, Surge Protection Transformer, etc.
	MCC Electrical Panel with Cables, Instrumentation and automation / Protection, DCS Control system with control desk, earthing & accessories for TG System
	Neutral Earthing Tr, LAPT Panels
VI.	Utility Equipment
	Electrical (Transformers/Cables/Substation), CT, WT, Air Compressor, Weigh Bridge, Fire Ftg System, Cranes etc.
	Power Transformer - 20 MVA, 11KV/110KV, Rima make, S. No 1561, Yr- 2010

Aux Transformer - 2000 KVA, 11KV/433 V, Rima Make, S. No 1562/1&2 - Yr. 2010
Power cables and other accessories
110 KV Sub Station Switch yard including Circuit breakers, LA/CT/PT, etc.,
FRP Cooling Tower - 2 Nos - 1000 TR. With 9.3 KW id fan and water pump 7.7 KW - 2 Nos
DM Water Plant - 6 Cu.M per hr., with Cation, Anions Columns, FRP Tanks - 100 Cu.M - 2 Nos, RO Pant 6 Cu.M/hr., with Pumps and piping
Weigh Bridge Digital Type, 50 T, 9 M x 3 M platform. Year 2011
Air Compressor - 596 N.Cu.M / Hr., 7.5 Kg/Sq. Cm, 55 KW, Model 4 55, with air Dryer and Receiver - Elgi Make Yr. 2010
Water Pomp 75 Cu.M per Hr., 120 M head, KSB make, 45 KW motor, year 2010
Fire Pump with 75 KW motor
Engine Driven Fire Pump
EOT Crane in Turbine hall -Double hook - 25 / 5 MT, Aravind Industries
VII. Ash Handling System with Compressed air, silo, etc
VIII. Fuel Handling System
Belt Conveyor with Dumping Hoppers, 1000 mm width and about 35 M long.
Hopper and Feed Screw near Boiler
Wood Chipper with Conveyor

SCOPE OF SUPPLY:

1. Boiler and its control systems, ESP & chimney.
2. Boiler Feed water system.
3. Fuel and Ash Handling systems including wood chip machines, conveyors, Ash handling conveyors, Ash bin, etc.
4. Lagged High-Pressure steam lines, valves and controllers.
5. Condenser system, Forced lubrication systems, oil filtration systems, overhead Cranes for the TG house.
6. Steam Turbine coupled to an Alternator –Turbo Generator or TG
7. DCS control System for the TG system
8. Electrical Switch-yard, Transformer, Auxiliaries and Grid connection
9. Auxiliary Power Transformers for 415 V MCCs & PDBs.
10. Cooling Tower with circulation pumps, auxiliaries and stand-by systems
11. Raw & DM Water Plant, Fire Fighting Pumps, hydrant water line, hose points.
12. Diesel Generator and supporting systems.

PHOTOGRAPHS





蒸汽锅炉		STEAM BOILER	
型 MODEL	号 UG-70/8.43-T	最大设计蒸发量	77t/h(169756 lb/hr)
总受热面积	5418m ² (58258ft ²)	最高允许工作压力	10.85MPa(1575psid)
额定蒸发量	70t/h(154324lb/hr)	额定蒸汽压力	8.43MPa(1223psid)
制造许可证编号	TS2110520-2010	制造许可证级别	A 级
额定蒸汽温度	525 °C(977 °F)	检验标记	
产品编号	10045	制造日期	2010年 月
PRODUCT No.		DATE	YEAR MONTH
中华人民共和国 THE PEOPLE'S REPUBLIC OF CHINA 无锡华光锅炉股份有限公司制造 MANUFACTURED BY WUXI HUAGUANG BOILER CO., LTD. 江苏省特种设备安全监督检验研究院监检 SUPERVISED BY JIANGSU PROVINCE SPECIAL EQUIPMENT SAFETY SUPERVISION INSPECTION INSTITUTE			



