

Plant visit & study of existing systems for handling several biomass fuels for 4x150 MW CFB Boilers

Client: Thermax Babcock & Wilcox Energy Solutions (TBWES), Pune

Project: Reliance Petroleum Industries Limited, Baruch, Gujarat

Scope Of Work: Study of the following to switch from coal firing to biomass firing (a variety of biomass fuels) in the 4 x 150 MW (500 TPH) CFB boilers:

Option-1: 100% Bio mass feeding

Option-2: Bio mass co-firing with coal

Option-3: Keeping the possibility for switching back to 100 % coal firing in future

- Evaluation of Existing System**
- 100% Biomass Handling**
- Unloading & Feeding System**

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Sr. No.	Crop	Type of Biomass Supply	Size (Max.)	Density (Kg/m ³)
1	Castor Stalk	Briquettes	Diameter 100 mm & Length 100 mm	600 - 750
2	Castor Shell	Briquettes		
3	Cotton Stalk	Briquettes		
4	Coriander Husk	Briquettes		
5	Ground Nut Shell	Briquettes		
6	Jeera Husk	Briquettes		
7	Mustard Husk	Briquettes		
8	Saw dust	Briquettes		
9	Sugar Cane Bagasse	Briquettes		
10	Julia flora Chips	Briquettes		
11	Julia flora Chips	Chips	Max. 25 mm	350
12	Castor Seed DOC	Granules (Powder)	01 to 5 mm	550 - 600
13	Wood & Biomass pellets	Pellets	6 mm to 25 mm	600 to 750

