

**Silent Technical specifications  
for  
Procurement of Biomass Pellets on FOR Power Station basis for NTPC  
Singrauli,Rihand, Tanda and Unchahar Plants**

Salient Technical Features of the subject requirement covered in the IFB NO:CS-0011-112S-9. The intent of technical specification is to outline critical requirements and parameters for procurement of agro-residue based biomass pellets for co-firing in pulverized coal fired units.

**Brief Scope of Work:** 1. The scope of work under this package shall include supply, loading, transport and delivery of agro residue based biomass pellets at NTPC site.  
2. Unloading at NTPC site shall be in the scope of NTPC Plants(Annexure III) provided pellets are loose filled in the carriage vehicle. Carriage vehicle should be fully covered and waterproof during transportation to prevent the material from rain, sunlight and to prevent dusting.  
3. If supplier supplies the material packed in bags, consignment shall not be accepted, or supplier shall unload and unpack the material at his own cost. In such case, any additional cost, including demurrage, if any, will be borne by the vendor. Supplier must take back the empty bags from plant premises.  
4. The pellets shall meet the technical specification given clause 8 (Table -1).  
5. Supplies against any other contract awarded at lower price (long term) or any short-term contract have to be completed before start of supply under this contract for the concerned station/plant.

**Delivery Period:** The bidder shall offer to supply Biomass pellets on daily basis for 01 Years.

However, if due to any reason attributed to NTPC or reason mentioned in the force majeure clause, party is not able to supply allocated quantity of Non Torrefied Biomass pellets to NTPC as per the schedule, additional grace period for completion of supplies may be given at the sole discretion of NTPC.

**Technical Specification of Biomass pellets:**

The Biomass pellets shall meet the technical specification as given in following table-1 and the Bidder shall submit declaration for the same as per format enclosed at **Annexure-I** of this document.

**Table: 1 Technical Specification for Biomass Pellets**

S.No	Technical data	Unit	Non Torrefied Biomass pellets specification
1	Base material	-	Agro residue
2	Shape and Size**	Mm	cylindrical shape : Diameter : Not more than 25 mm Length : should not exceed 35 mm.
3	Fines% (length<3 mm) (ARB*)	Wt %	fines ≤ 5% [Less than 5% by weight]
4	Gross Calorific Value (GCV-ARB*)	kCal/kg	Acceptable range 2800 Kcal/Kg to 4000 kcal/Kg [both inclusive]
5	Moisture (ARB*)	Wt %	Not more than 14%

\*ARB – As Received Basis

\*\*During contract period, diameter of pellets may be revised/modified based on result of test firing on mutual consent basis without any financial/cost implication to either NTPC or supplier.