



**OWNER:
THE TATA POWER COMPANY LIMITED**

**PROJECT MANAGER:
THE TATA POWER COMPANY LIMITED**

**TITLE OF WORK TO BE AWARDED:
"SUPPLY OF BIOMASS PELLETS TO
TATA POWER, TROMBAY THERMAL POWER STATION"**

**ENQUIRY REFERENCE NO.:
TRBM002/2025-26/ CC25DK011**

NOTICE INVITING EXPRESSION OF INTEREST (EOI) FOR-

**SUPPLY OF BIOMASS PELLETS TO TATA POWER,
TROMBAY THERMAL POWER STATION**

Enquiry reference no.: TRBM002/2025-26/ CC25DK011
Title of Work: “SUPPLY OF BIOMASS PELLETS TO TATA POWER, TROMBAY THERMAL POWER STATION”
Type of Bidding: E-tendering / Two Part
Guidelines for EOI submission: EOI (Expression of Interest) shall be submitted strictly as per instructions given herein under Point no. 3 (a), (b), (c), (d) by sending Email EOI to Email IDs specified thereunder. EOI submission mail must bear proper subject/title mentioning "EOI for SUPPLY OF BIOMASS PELLETS TO TATA POWER, TROMBAY THERMAL POWER STATION" (Tender Ref: TRBM002/2025-26/ CC25DK011) All communication regarding this tender shall be addressed to following officer/s: 1. Mr. Kamble Datta Email: Kamble Datta <datta.kamble@tatapower.com> Tel: 022-6717 3947 AND 2. Mr. Surendra Chandolkar Email: schandolkar@tatapower.com Ph: 022-6717 3995 Website: https://www.tatapower.com/tender/tenderlist.aspx

The Tata Power Company Limited Invites Expression of Interest (EOI) from interested parties for the e-Tendering Process of following Relevant Work Package:

Table1

Plant Details	Estimated Quantity	Tender Fee	Bid Security/EMD
Trombay Thermal Power Station, Mahul Road, Chembur, Mumbai - 400074, Maharashtra.	<ul style="list-style-type: none">▪ Total Qty in MT = 500 MT▪	INR 2000/- (INR Two Thousand Only) (To be paid along with EOI through Bank transfer which will be Non-refundable)	INR 2 Lakhs Bid Security / EMD in the form of online transfer / NEFT

1. INTRODUCTION:

Ministry of Power (Mop) issued revised policy dated 8th Oct 2021 with notification number 11/86/2017-Th. II, for Power generation through Co-firing of Biomass in Coal Based Power Plants. Tata Power Company limited is hereby inviting Expression of Interest (EOI) from interested and eligible parties for "**SUPPLY OF BIOMASS PELLETS TO TATA POWER, TROMBAY THERMAL POWER STATION**"

Trombay Thermal Power Station presently operates coal based thermal power generation units operating on Imported coal, located at Trombay, Mahul Road, Chembur, Mumbai in state of Maharashtra in India.

The tendering/procurement activities for this Project are being managed from Tata Power's following Office:

Smart Center of Procurement Excellence (SCOPE), Corporate Contracts,
The Tata Power Company Limited,
2nd Floor, Sahar Receiving Station, Near Hotel Leela,
Sahar Airport Road, Andheri East, Mumbai – 400059.
Maharashtra, India.

2. SCOPE OF WORK:

The details of the estimated Biomass quantity required under proposed contract period is as under:

Table2

Power Station/ Location	Owner of Plant	Estimated Quantity Requirement	Biomass Delivery / Period of Supply/ Price Validity
Trombay Thermal Power Station, Mahul Road, Chembur, Mumbai -400074, Maharashtra.	Tata Power Company Limited	▪ Total Qty in MT = 500 MT	1 month from the issue of purchase order, barring monsoon period of 4 Months (Monsoon Period of 4 months shall be June to Sept 25). Price shall be valid for the period of 1 year from the date of issuance of order.

Note: -

The brief Scope of Work under this tender shall be to deliver of biomass at the designated delivery point at Trombay Thermal Power Station inline with detailed scope of work/ T&C/Technical specification via road mode logistics. The supplier shall deliver the ordered quantity within 1 month from the issue of purchase order, barring monsoon period of 4 Months (Monsoon Period of 4 months shall be June 25 to Sept 25). Price shall be valid for the period of 1 year from the date of issuance of order.

The scope of bidder/ Supplier shall include- Supply of biomass in preferably in self-tipping truck including unloading, entire logistics arrangement, transportation, and other associated work for the contracted quantity of biomass on consistent and continuous basis over the stipulated contract period.

Detailed Scope of work/ Terms & Conditions/Technical Specifications requirement is mentioned in

Annexure – 1 of this document.

Detailed Scope of Work for this Contract shall be confirmed in the Tender/RFQ document to all bidders submitting the valid EOI with due tender fees.

3. TENDER FEE & EOI SUBMISSION GUIDELINES AND TIMELINES:

a) Interested parties meeting the "Bidder pre-qualification criteria" specified under point no. 4 in this document can request tender document and participate in the bidding process by submitting the Expression of Interest (EOI) Letter along with the Tender Fee Payment Details to the contact details mentioned below not later than deadline specified below. Request for Bid Document/EOI will not be entertained beyond this deadline.

b) Interested bidders should submit the Expression of Interest (EOI) letter and tender fee payment details to below mentioned three (2) email addresses as follows:

- datta.kamble@tatapower.com
- schandolkar@tatapower.com

- EOI/ requests without complete information and communication as above within deadline shall be liable to be rejected and will not be considered further.

c) Tender Fee, as indicated in the Table1 above may be paid through **NEFT** as per details for payment of Tender Fee given in Table3 below:

Table 3

Details for payment of Tender Fee:	
Bank details for submitting Tender fees through bank transfer/NEFT:	Beneficiary Name: The Tata Power Company Limited Bank Name: HDFC Bank A/c no: 00600110000763 IFS Code: HDFC0000060 A/c type: CC Branch Name & Address: HDFC Bank, Maneckji Wadia Building, Nanik Motwani Marg, Fort, Mumbai 400023k
Deadline for tender fee payment and submission of EOI:	22nd January 2025
Tender Fee Amount:	Rs 2000/- (Non-refundable)

d) Expression of Interest letter to be submitted along with tender fee payment details should include the following details:

- A covering letter duly stamped and signed by an authorized signatory clearly indicating the Tender Reference number, your EOI to participate in the tendering process.

- Tender fee payment details / reference no (ensure that tender fee is received by us within specified deadline)
- **Bidder to indicate authorized person name, contact number and e-mail id (mandatory) of the person to whom RFQ/ tender and all other communications to be addressed for this tender.**
- **Bidder to confirm their capability to supply trial quantity as well as long term one year quantity. Bidder may submit supporting credentials.**
- **All other details indicated in the Annexure-1 will be required at the stage of RFQ / bidding including price. Annexure -1 is shared for reference purpose only and shall be finalized during RFQ stage.**

e) Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (Ariba System) only to the parties submitting a valid EOI as per terms mentioned in this document.

4. BIDDER PRE-QUALIFICATION CRITERIA:

Interested parties to note that Bidder shall be required to fulfill the following bidder pre-qualification criteria in order to qualify for the subject work. Bidder will be required to submit relevant supporting documents to demonstrate their qualification during the bid submission stage against Tender document/RFQ.

4.1 TECHNICAL REQUIREMENT:

- a) Bidder should have Minimum supply capacity of 60 TPD. Bidder to submit credential (POs / certificates / customers letters etc.) demonstrating 60 TPD supply of biomass pellets contract/s executed or under execution in the last 2 years. New supplier having no past experience may submit supporting credential of production capacity to supply 60 TPD.
- b) Bidder should have executed at-least one contract including scope of supply including transportation / logistics responsibility. New supplier having no past experience of logistics may submit supporting credential of logistics capability through their own / tie-up's.
- c) Bidder shall confirm to meet the detailed technical requirement as mentioned under Annexure – 1 of this document.

4.2 FINANCIAL REQUIREMENT:

- a) Bidder should have annual average turnover of last three financial years an Average Annual Turn Over of not less than INR 1 Crores.
- b) Bidder should have net worth of last financial year at least equal to or more than paid up share capital.

4.3 NOTES FOR TECHNICAL AND FINANCIAL REQUIREMENTS:

Bidder will be required to submit copies of their profit and loss account and audited Balance sheet for the last three preceding financial years along with the Bid Document. In cases, where audited

results for the last preceding financial year are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable.

5. BID SECURITY/EMD:

Interested parties to note that Bidder is required to furnish a Bid Security along with their Bid during bidding stage once the RFQ/tender document is issued to bidder/s submitting valid EOI. Bid security may be submitted in form of Bank guarantee in the format prescribed in Bid Document or as Demand Draft/Banker's cheque for an amount as defined in the covering page of this notice document (Table-1). Bids not accompanied by an acceptable Bid Security shall be rejected by the Owner as being non-responsive and returned to the bidder without being opened. Bid security of unsuccessful bidders shall be returnable after conclusion of tender process while Bid security of successful bidders shall be returnable after submission of necessary contract performance bank guarantee/ performance security deposit.

Note: Interested parties to note that Bid Security is not required with the EOI and it is required to be submitted with the Bid during Bid Submission stage, once RFQ is released to the interested parties submitting valid Expression of Interest.

6. BIDDING PROCESS:

Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (Ariba System) only to the parties submitting a valid EOI as per terms mentioned in this document.

Bidder to note that bidding for the procurement of Biomass as per above tender may be conducted based on the Minimum Supply Quantity Commitment and Price (Landed at Plant) of Biomass quoted by bidder/s. Detailed bidding and auction process (as applicable) shall be detailed in the RFQ document.

**REQUEST FOR QUOTATION (RFQ)
FOR SUPPLY OF BIOMASS PELLETS TO TATA POWER
TROMBAY THERMAL POWER STATION**

Doc. No: TRBM002/2025-26



**TATA POWER
The Tata Power Company Limited
Engineering - Generation
Trombay Thermal Power Station, Chembur-Mahul Road, Mahul,
Mumbai 400 074, Maharashtra, India
Registered Office Bombay House 24 Homi Mody Street Mumbai 400 001**

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**SECTION-A
EXECUTIVE SUMMARY**

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1.0 INTRODUCTION

TATA Power, together with its subsidiaries and joint entities, is present across the entire power value chain of conventional & renewable energy and next-generation customer solutions. TATA POWER is India's largest integrated power company. Tata Power generates about 9032.5 MW (including Prayagraj) running on Coal. The Thermal Power Stations of the Company are located at Trombay in Mumbai, Jamshedpur, Maithon and Jojobera in Jharkhand, Haldia in West Bengal, Kalinganagar in Odisha, Mundra in Gujarat, Prayagraj in Uttar Pradesh.

To reduce greenhouse gas emission from its coal-based power plants, TATA POWER intends to utilize agro residue-based pellets/ Non-torrefied pellets along with coal for power generation through biomass co-firing. Ministry of Power (Mop) issued revised policy dated 8th Oct 2021 with notification number 11/86/2017-Th. II, for Power generation through Co-firing of Biomass in Coal Based Power Plants.

THE TATA POWER COMPANY LTD (Referred as "Owner" elsewhere in the document), invites applications from agencies, to register for supply of Biomass Pellets at Trombay Thermal Station, Mumbai (Referred as "Project site" elsewhere in the document).

2.0 BRIEF SCOPE OF WORK

- 2.1 The scope of work under this package shall include supply, loading, transport, and delivery of agro residue-based biomass pellets at Project site.
- 2.2 The pellets supplied shall adhere to the technical specification given in this document. Detailed scope and methodology are as specified in this Document.

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SECTION-B

TECHNICAL SPECIFICATIONS FOR AGRO RESIDUE BASED BIOMASS PELLETS

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1.0 INTENT OF SPECIFICATION

- 1.1 Tata Power Company Limited is operating pulverized coal based Thermal Power stations at Mumbai Maharashtra. In order to reduce carbon emission of coal fired power plant and also to reduce air pollution by discouraging stubble burning, Owner intend to procure agro residue-based biomass pellets for co-firing in pulverized coal fired units.
- 1.2 The scope of work under this package shall include supply, loading, transport, and delivery of agro residue-based biomass pellet at Project Site.
- 1.3 Supervision of Unloading shall be in the scope of Owner. Pellets shall be 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. Carriage vehicle should be self-tipping type.
- 1.4 Preference shall be given to the supplier who can supply the material in -self tipping type truck consignment. For any extra halt of carriage vehicle, demurrage shall not be payable by Owner.
- 1.5 The pellets supplied shall adhere to the technical specification given in this document.
- 1.6 Demurrage, if any, on the carriage vehicle for reasons attributable to the Supplier shall be borne by the Supplier.

2.0 SUPPLY LOCATION

- 2.1 The consignment of pellets shall be delivered to following address: -
(Exact unloading Point shall be directed by the owner)

**Tata Power, Trombay Thermal Power Station,
Chembur-Mahul Mumbai 400074
India**

3.0 DELIVERY SCHEDULE

- 3.1 The supplier shall deliver the ordered quantity within 1 month from the issue of purchase order, barring monsoon period of 4 Months (Monsoon Period of 4 months shall be June 25 to Sept 25). Price shall be valid for the period of 1 year from the date of issuance of order.
- 3.2 Owner can also give change in delivery schedule to supplier by giving one-week advance notice through Order Manager official e-mail ID or e-mail ID of any other person authorized by him and supplier shall dispatch the consignment accordingly.

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4.0 TECHNICAL SPECIFICATION OF BIOMASS PELLETS

- 4.1 Bidder has to supply Non-Torrefied biomass pellets as per the specification. The bidder shall quote the price for pellets and its GCV (ARB*). The pellets shall adhere to the technical specification given in following table and bidder shall submit declaration as per the Annexure – 1.
- 4.2 However, any variation in below technical specification beyond the limit specified in technical specification shall be rationalized as per Price and Quantity Adjustment formula as given in the following clauses of this specification.

Table: 1 Technical specification for Biomass pellets (Non- torrefied).

Serial No	Technical Data	Unit	Specifications of Pallet
1	Base material		Agro residue / Crop residue (Wood based pellets will not be acceptable)
2	Diameter**	Mm	<ul style="list-style-type: none"> Not more than 25 mm No other dimension should exceed 35 mm
3	Bulk density	kg/m3	Not less than 600 kg/m3
4	Fines % (Length < 3 mm) (ARB*)	Weight %	Fines ≤ 5%
5	Gross calorific value (ARB*)	kcal/kg	Non- torrefied pellets: Price basis with reference to Not less than 3000 - 3600
6	Moisture (ARB*)	Weight %	Not more than 10 %
7	Ash (ARB*)	Weight %	Not more than 20%
8	Hard grove Grindability Index\$ (HGI)		50 or more
9	Particle size distribution\$\$ (After crushing and pulverizing in site lab pulverizer)	Weight %	Passing proportion from 2 mm mesh size sieve: ≥ 75% Passing proportion from 3 mm mesh size sieve: =100%
10	Chlorine	Weight %	Not more than 0.5
11	Sulphur	Weight %	Not more than 0.2

*ARB – As Received Basis

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Note: 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 Owner or supplier.

- 4.3 Base material for pellet manufacturing shall be 'agro-residue' i.e., the leftover portion of the agriculture produce such as stubble/straw/stalk/husk which are surplus and not being used as animal fodder. This includes agro-residue obtained from crops like Paddy, Soya, Arhar, Gwar, Cotton, Gram, Jawar, Bajra, Moong, Mustard, Sesame, Til, Maize, Sunflower, Jute, Coffee, etc. as well as Groundnut Shell, Coconut Shell, Castor Seed Shell etc. (ii) In addition, pellets made from the following agro product/crop/waste can also be used for co-firing in TPPs a. Bamboo and its by-products (e.g Bamboo Chips, Cuttings, Bamboo Dust etc.

Horticulture waste such as dry leaves and trimmings obtained from maintenance & pruning of trees and plants, other biomass such as Pine Cone/Needle, Elephant Grass, Sarkanda etc. "

- 4.4 Agro residue-based biomass pellets can be manufactured by mixing single or multiple base material together.
- 4.5 Mixing material such as byproduct of woodwork factory such as wood chips, saw dust, furniture waste etc., bagasse, press mud, molasses, bamboo dust or natural additives/binder such as lignin, starch, and animal dung may also be used with agro residue in limited proportion to enhance material properties and same shall be explicitly mentioned by supplier in consignment details.
- 4.6 Wood obtained from tree cutting shall not be treated as agro residue and shall be not to be used as base material or mixing purpose whatsoever.
- 4.7 Owner reserve the right to exclude any Base material/ Mixing material/additive/ binder or modify their proportion, if any adverse impact of the Base material/ Mixing material/additive/binder is found on boiler in long run.

4.8 **Price Variation**

Bidder shall quote proposed Biomass pricing on basis of "INR/Mkcal" (GCV on ARB Basis) including Biomass cost, applicable taxes/duties/cess GST etc.

Actual payment shall be made based on Basic Biomass Price "INR/MT" (Considering GCV) calculated based on the actual quantity of Biomass received at Unloading Point and Unloading Point GCV as measured in line with the specified provision.

Bidder shall in his quote give clear break-up of the Basic Price of Biomass, GST and all other taxes, duties, cess etc. as applicable and also indicated the total landed cost of Biomass including all taxes and freight etc. Any taxes, duties, cess etc. not mentioned in the bid shall be deemed to be included in the basic price of Biomass.

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4.8.1 Non-torrefied Biomass

a) Price Variation for Quoted GCV

Based on the Base material and Mixing material as per technical specification, Bidder is required to quote GCV value of biomass in Kcal/Kg for non-torrefied pellet within the range as mentioned below

Non- torrefied pellets: Price basis with reference to Not less than 3000 – 3600 kcal/kg

Minimum Limit- 3000 Kcal/Kg

Supplier shall supply the agro residue based non torrefied biomass pellets of GCV not less than 3000 -kcal/kg.

Price shall be adjusted for GCV variation of supplied material as below:

For GCV (ARB) > 3600 Kcal/Kg [For GCV more than 3600 Kcal/Kg]

Upward pro-rata price adjustment shall be done for GCV variation of supplied material as per following formula: -

$$\text{Adjusted FOR price} = \frac{[\text{Quoted FOR price} \times \text{Actual GCV (ARB)}]}{\text{Quoted GCV (ARB)}}$$

Note: FOR Price shall be referred as Free on Road price at destination which shall be the agreed Contract Unit Rate Price as Landed Cost of Biomass Pallets in “Rs per MT” as per schedule of price.

The downward GCV variation from Minimum limit, pro-rata price adjustment shall be done for GCV variation of supplied material as per following formula:

For GCV < 3000 Kcal/Kg [For GCV less than 3000 Kcal/Kg & up to 2200 Kcal/Kg]

$$\text{Adjusted FOR price} = 0.75 \times \frac{[\text{Quoted FOR price} \times \text{Actual GCV (ARB)}]}{\text{Quoted GCV (ARB)}}$$

Note: In case the consignment GCV is less than 2200 Kcal/Kg the multiplication factor for the adjusted FOR price shall change from 0.75 to 0.50

b) Weight Correction for Quoted Moisture

If consignment of biomass pellets does not meet the guaranteed parameter for moisture (ARB) but is within the acceptance limit as given in Table above, the consignment shall be accepted but with pro rata quantity adjustment (weight correction) as calculated using following formula:

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Weight correction factor on account of moisture (M):

$$M = \frac{\{100 + X - \% \text{Moisture(ARB)}\}}{100}$$

Where X is the lower moisture percentage limit as per specification = 10 %. Weight correction on account of moisture (ARB) shall be done only if it is > 10 % Moisture (ARB)

For moisture (ARB) less than or equal to 10%, no weight correction shall be done.

For moisture (ARB) more than 10 %, the weight correction shall be done.

c) **Quantity Adjustment for Ash**

If consignment of biomass pellets does not meet the guaranteed parameter for % Ash content (ARB) but is within the acceptance limit as given in Table above, the consignment shall be accepted but with pro rata quantity adjustment (weight correction) as calculated using following formula:

Weight correction factor on account of ash (A):

$$A = \frac{\{100 + Y - \% \text{Ash content(ARB)}\}}{100}$$

Where Y is the Ash percentage as per specification (Not more than 20%.)

Weight correction on account of ash content will be done only when ash content (ARB) of biomass pellets is more than 20%. For ash content (ARB) less than or equal to 20%, no weight correction shall be done.

d) **Corrected Weight of the Consignment**

If W is the weight of consignment supplied, then final corrected weight on account of both moisture and ash corrections shall be calculated as below:

$$W_{corrected} = W \times M \times A$$

Where,

M= Weight correction factor on account of moisture (M)

A = Weight correction factor on account of ash (A)

The corrected weight ($W_{corrected}$) of the consignment and adjusted price for GCV of the biomass pellets as worked out above shall be considered for the payment to be made to the supplier.

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e) **Recovery on Account of Excess Fines in Consignment**

Biomass dust, crushed/ broken/ damaged pellets of length less than 3 mm in consignment as received at owner's power plant shall be treated as fines and there shall be recovery on account of excess fines (ARB) if it is beyond 5%. The recovery on account of excess fines shall be worked out as per the following formula:

$$\text{Recovery} = \frac{1}{4} \times (\text{adjusted price of biomass pellets}) \times W_{\text{corrected}} \times \text{Excess weight \% of fines}$$

This amount shall be recovered from the payment of that consignment.

4.9 **Receipt of Consignment**

The consignment of biomass pellets arrived at project site shall adhere to the technical specification. The biomass consignment will be refused to deliver based on loading site certificate of analysis (COA)

Shipping of consignment shall not be allowed until COA is not received. All parameters shall be furnished by the supplier before loading the material at the supplier's location. Based on the parameter owners shall decide on the Go/No go for the supply of consignment. Also, the biomass shall be tested at the Owner Lab. Payment shall be made based on the result obtained at the owner's lab based on the formula given in clause number 4.8.1

5.0 **TESTING STANDARD/ METHOD**

5.1 Biomass pellets sample shall be tested in the Project site lab as per following equivalent standard given in the Table no - 2 below.

Table: 2

Serial No	Technical data	Testing Standard/Method
1	Diameter	ISO/ASTM/BIS or equivalent method may be referred. Note: ISO 17829 refers for the Solid Biofuels —For the determination of length and diameter of pellets
2	Fines % (< 3 mm) (ARB)	ISO/ASTM/BIS or equivalent method may be referred. Note:

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		ISO 18846:2016 specifies a method for determining the amount of material passing through a sieve with 3,15 mm diameter round hole.
3	Gross Calorific Value (ARB)	ISO/ASTM/BIS or equivalent method may be referred. Note: Indian Standard methods of test for coal and coke
4	Moisture (ARB)	ISO/ASTM/BIS or equivalent method may be referred/ Handheld moisture meter may also be used.

ARB – As Received Basis

Before unloading, samples shall be tested for moisture. However, the HGI report shall be submitted by the Supplier with each carriage vehicle/consignment at the time of supply.

5.2 Sampling methodology

- 5.2.1 The biomass sample should be representative sample, means it should have pellets of all sizes (small, medium, large) etc. The collected sample should represent the truck/consignment. For the purpose of rejection test before clearance for unloading, each truck/consignment shall be tested for moisture by Owner.
- 5.2.2 For testing of GCV and other Technical parameters, single composite sample shall be prepared for all the consignments received in a day from a particular vendor. For avoidance of doubt, in case supply is from multiple vendors in a day, vendor-wise sample shall be prepared for all the consignment received in a day.
- 5.2.3 The sample quantity of approximately 30 Kg is to be collected from each truck/consignment from 4-5 randomly selected spots on the truck top after removing biomass pellet layer of approximately 25-30 cm depth from the top. Approximately 5-6 kg of sample is to be collected from each spot.
- 5.2.4 Five spots shall be selected for sampling of biomass pallet shall be decided by the owner depending upon the biomass pattern. Spot selection is not in vendor's scope.

5.3 For testing of GCV and other technical parameters

Do the conning and quartering of the sample, till the sample quantity is reduced to 4-5 Kg as explained below:

Example

Suppose one collects 30 Kg sample from One truck and total no of trucks received in a day from a particular vendor is 'N' then the total pellet sample collected will be around '30N' Kg. 'N' can be 1,2,3 ...or so on.

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Prepare a cone (heap) of '30N' Kg and divide the cone from top to bottom and remove the half portion (left or right). Further, prepare the cone for remaining '15N' Kg of pellet and divide the heap and remove the pellet of side opposite to the side of previous removal. Now, the balance available qty of pellet is '7.5N' Kg and continue this process till the pellet sample is reduced to '4-5' Kg. The final laboratory sample shall be distributed as mentioned in this document for determination of GCV and other technical parameters.

5.4 **Sampling and analysis at receiving end (Project site)**

5.4.1 Sampling shall be done by Owner. If supplier required to witness or appoint representative than he can appoint his representative for sampling and testing. The samples shall be collected and prepared as per Sampling methodology.

5.4.2 The authorized representatives of Owner and pellet supplier shall jointly witness the process of sample collection and preparation of the laboratory samples. If seller appoints his representative than representatives shall put their signature on the sample tags in evidence of the process of sampling. Both- consumer (Owner) and pellet supplier - shall also sign on the samples register maintained by the Owner at the unloading end.

5.4.3 For recovery on account of excess fines, Owner shall arrange for analysis of fines at Owner site and fines proportion of biomass pellets shall be analyzed at the receiving end. If fines percentage exceeds more than 5%, proportionate recovery shall be done for excess fine.

The final laboratory sample shall be divided into 3 (three) parts.

- Part 1: This Part of the sample is for analysis of GCV and other technical parameters by Owner lab at site.
- Part 2: This Part of the sample is to be handed over to the pellet supplier for its own analysis.
- Part 3: This Part of the sample, called Referee sample, shall be sealed jointly, and shall be kept with Owner under proper lock and key arrangement.

5.4.4 The Reference sample shall be preserved for a period of 15 days from the date of sample collection. Mere absence of or failure of participation by any representative of pellet supplier shall not be a ground to negate the sampling process undertaken. Owner shall communicate the Analysis Results of the sample within 7 Working-days of the sample collection to the pellet supplier. The pellet supplier may raise dispute, if any, within 07 (seven) days of the submission of the result by Owner.

5.4.5 In case of dispute is raised within the stipulated time, the Reference sample shall be analyzed in a NABL accredited laboratory as notified by OWNER time to time, expense of which shall be borne equally by both OWNER and pellet supplier. Expense borne on supplier part shall be adjusted against payment to the supplier. NABL accredited laboratory report of referee sample shall be final and binding on both the parties. Dispute raised beyond the stipulated time shall not be entertained.

5.4.6 To ascertain rejection parameter, OWNER test shall be sufficient and binding. Third party testing shall not be applicable for rejection of consignment.

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5.5 Tagging of Consignment

Each consignment should be accompanied by general details (such as name of company/firm/agency, address, date of dispatch, batch number, vehicle type and number, weight of consignment etc.) and technical details as per Annexure – 2.

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SECTION-C

(Annexure Schedules)

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Annexure: 1

Declaration by Bidder

(To be submitted on Companies letter head along with technical bid)

We, the undersigned, has read the technical specifications for agro residue-based biomass pellets, and declare the following:

- We have read and completely understood the technical specification document and have no reservations to it including amendment/ Clarification.
- We have quoted the price in price bid for the agro residue-based biomass pellets having technical specification as follows:

Serial No	Technical Data	Unit	Specifications of Pallet
1	Base material		Agro residue / Crop residue
2	Diameter**	Mm	<ul style="list-style-type: none"> Not more than 25 mm No other dimension should exceed 35 mm
3	Fines % (Length < 3 mm) (ARB*)	Weight %	Fines ≤ 5%
4	Gross calorific value (ARB*)	kcal/kg	(----To be quoted by bidder ----)
5	Moisture (ARB*)	Weight %	Not more than 10 %
6	Ash (ARB*)	Weight %	Not more than 20 %
7	Chlorine	Weight %	Not more than 0.5
8	Sulphur	Weight %	< 0.25

- We understand that quantity and price adjustment shall be made for supplying the material deviating from technical specification but within acceptable range of technical specification.
- We understand that rejection of consignment shall be made for not meeting acceptance limits of parameters.
- We declare that we have read the bid document and has no reservation to it and shall abide by its provision.

Name/ Designation:

Name of Company/firm/agency

Signature:

Date:

Place

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Annexure: 2

Tag for Consignment

(To be tagged along with each consignment on Agency's letter head)



General Details			
1	Name of the Company/Firm		
2	Address of manufacturing location		
3	Date of Dispatch		
4	Batch No		
5	Carriage Vehicle Type/ No		
6	Weight	Kg	Gross Weight
			Tare Weight
			Material Weight
7	Other details (as Applicable)		
Technical Details			
1	Diameter of Pellet in mm		
2	Name of Base Material and %		
3	Name of Mixing Material & %		
4	Name of Additives and %		

Name/ Designation:

Name of Company/firm/agency

Signature:

Date:

Place

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Annexure: 3**Pellet quantity requirement for Trombay Thermal Station**

Serial No	Name of the Unit / Station	Total Qty for in MT
1	Trombay Station	500

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Annexure – 4: Schedule of Price Biomass Trombay

Refer the Schedule of Price Excel format attached separately in the RFQ.

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Annexure – 4: Data/ Information to be submitted by Bidder:

Below are the questionnaires to be submitted by Bidder.

Name of the Bidder: -		
Location of Bidder: -		
Serial No	Query to be answered by Bidder	Answer from Bidder
1	Post successful trial of Biomass at Tata Power Trombay Plant, can bidder supply biomass pallets on continuous basis for a period of 1 year? Note: -For quantity refer to Annex-3	
2	Post successful trial of Biomass at Tata Power Trombay Plant, can bidder supply biomass pallets on continuous basis for a period of 7 year? Note: -For quantity refer to Annex-3	
3	Is bidder having Storage facility of Biomass near to Trombay Plant.	
4	Is bidder having Storage facility of Biomass near to Mumbai.	
6	How much Maximum quantity of Biomass bidder can supply per day at Trombay Plant	
7	How much Minimum quantity of Biomass bidder can supply per day at Trombay Plant.	
8	Can Bidder supply Biomass in other Plant of Tata Power located at other State such as CGPL (Gujarat), MPL (Jharkhand), Jojobera (Jharkhand), PPGCL (Bara, UP) as per query mentioned in above points.	
9	Bidder to confirm the plant location from where Trial order quantity is proposed to be supplied	
10	Bidder to confirm the plant location from where they can supply the Long-term annual quantity in case awarded contract for Long term supply Note: -For quantity refer to Annex-3	
11	Bidder to indicate proposed techno-commercially most optimum option for logistics (Mention Mode of transport-Road/Rail/Rail-cum-Road, Mention type of vehicle, Min Consignment quantity etc.)	

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SECTION- D
(SPECIAL CONDITIONS OF CONTRACT)

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1. Price Basis:

- a) Bidder should quote price in terms of "INR/Mkcal basis" (considering Guaranteed GCV on ARB basis) as well as "INR/MT". Bidder shall quote proposed Biomass Pallet pricing indicating the break up asked in Schedule of price including Basic price of Biomass Pallets, applicable taxes/duties/cess GST etc., applicable logistics cost between Manufacturing Plant/ Loading Point to Unloading Point as per Schedule of Price format and Guaranteed GCV.
- b) Actual payment shall be made based on Total price for Biomass pallet "INR/MT" (Considering Correction for Actual GCV on ARB basis delivered at Delivery/Unloading Point) calculated based on the actual quantity of biomass pallet received at Unloading Point and Unloading Point GCV as measured in line with the specified provision. There shall be deduction in Contract Unit Price / Invoice value as per applicable Performance criteria (Correction for Quality parameters- GCV, Moisture, Ash, Fines etc.) clauses as defined in this RFQ document.
- c) Contractor shall in his quote give clear break-up of the Basic Price of Biomass pallet, GST and all other taxes, duties, cess etc. as applicable and also indicate the total landed cost of biomass pallet including logistics freight and associated charges etc. Any other taxes, duties, cess etc. not mentioned in the bid shall be deemed to be included in the basic price of Biomass
- d) Landed Cost specified under Sr. No. 8 of Schedule of price shall include all associated costs including but not limited to supply, loading, packing /forwarding, transportation/logistics, unloading upto specified Delivery Point. No other costs shall be payable separately other than same, and any other costs not specified shall be considered by bidder in their quoted price.
- e) All transportation, insurance, logistics related charges shall be paid by supplier and included in the quoted Total Landed Price for Biomass pallets.
- f) The Cost of all superintendence of labour, materials, fuels & consumables, tools, equipment, mobilizing and demobilizing equipment, fixtures, transport charges, insurance charges, bank guarantee charges, temporary and permanent works, testing, handling of materials, stocking and removal charges of any rejected materials, power arrangement and satisfactory maintenance of the same for the full and satisfactory completion of the delivery works intended shall all inclusive in the Contract Unit Price.
- g) The Unit Price is inclusive of Cost of diesel/any other fuel/lube oils/consumables and is not payable separately.
- h) This is a Unit Rate Contract without any assurance on quantity. Quantities mentioned in above table are approximate and indicative only. Payment will be made as per the actual quantity as per Weigh Bridge [WB] designated by Order Manager.
- i) Statutory variation in Taxes and Duties shall be governed by the relevant clauses of this RFQ & General Conditions of Contract [GCC]. Any penalty/liabilities due to reasons attributable to suppliers shall be deducted from the invoice.

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- j) This is a fixed Unit Rate Contract, and the Unit Price shall remain firm for given contract period.
- k) Price shall be valid for the period of 1 year from the date of issuance of order.

2. Payment Terms:

Contractor/Supplier shall submit the bills along with all valid supporting documents on every fortnight basis, which shall be paid after statutory deduction as given below:

- a) The bills/invoice shall be raised by supplier on fortnightly basis (or as may be mutually agreed by order manager).
- b) 100% of the bill/invoice amount (Less reconciliation of Performance LD Penalties/ Deductions/ Retentions as applicable inline with RFQ terms) shall be payable after 60 days from the date of submission of valid bills alongwith necessary acceptance from Order manager.
- c) All tax deductions at source shall be as per applicable Government laws prevailing from time to time.
- d) There shall be Safety retention against Contractor safety performance as per General conditions of Contract - Clause 8 shall also apply.

3. Invoicing:

- a) Contractor shall raise invoice on fortnightly basis (as may be mutually agreed with order manager during execution) for the material received by The Tata Power Co Ltd. Invoice must be accompanied with necessary supporting documents as demanded by Order manager time to time.
- b) Invoice shall be accepted/ processed only after due certification of quantity and quality as agreed by Order Manager.

The bills are to be submitted along with the following supporting documents (as applicable), including but not limited to (Tentative list of the documents required that shall be reconfirmed by order manager during execution):

- i. Copy of weighment certification by Power Plant.
- ii. Copy of Quality reports of loading end
- iii. Copy of Power Plant receipt end quality reports.
- iv. Certified working for deriving payable quantity.
- v. Original challan copies of truck engaged in transportation
- vi. HGI Certificate from NABL accredited lab
- vii. Composition of Biomass pellets

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4. Period of Contract:

4.1 Contract Period shall be of 1 month from the issue of purchase order, barring monsoon period of 4 Months (Monsoon Period of 4 months shall be Jun 25, July 25, Aug 25 & Sept 25). Price shall be valid for the period of 1 year from the date of issuance of order.

4.2 The supplier shall deliver the ordered quantity within 1 month from the issue of purchase order, barring monsoon period of 4 Months (Monsoon Period of 4 months shall be Jun 25, July 25, Aug 25 & Sept 25).

4.3 Price shall be valid for the period of 1 year from the date of issuance of order

5. EMD/Bid Security:

- a) Supplier shall submit EMD/Bid security for Amount of INR 2 Lakhs, by way of Online NEFT transfer along with a covering letter duly stamped and signed by an authorized signatory clearly indicating the Tender/RFQ Title, Tender/RFQ Reference number, EMD/Bid Security payment details, on Bidder's letterhead. It is mandatory to mention Enquiry Reference no. in the said letter. The Earnest Money so deposited will be retained by the Tata Power till the validity of the bids as stated in the bid document and for such extended validity periods as may be required for the evaluation of bids until a decision on the final award of the contract to the successful bidder.
- b) EMD of Supplier shall stand forfeited in case he withdraws his bid during any stage of the bid evaluation process within the validity period including the extended validity periods as agreed.
- c) On the award of contract to successful bidder, the EMD amount shall be refunded to all the bidders except the successful Bidder. For the successful bidder, the EMD amount shall be returned after submission of CPBG (Contract Performance Bank Guarantee).
- d) Upon acceptance of the final proposal of the successful bidder, if the successful bidder dishonors his final proposal within the validity period as extended or refuses to enter into a contract as per the terms & conditions laid out in this document, the EMD shall stand forfeited.
- e) No interest shall be payable on either the EMD amount or the Security Deposit amount.
- f) Tata Power reserves the rights to split the quantity among more than one party and bidder shall keep quoted price valid for such split quantity if awarded.
- g) Tata Power reserves the right to accept or reject any or all bids of cancel / withdraw the enquiry without assigning any reason whatsoever. In such an event, no claim shall be made arising out of such action.

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6. Contract Performance Bank Guarantee (CPBG):

Successful bidder receiving the order shall submit a Contract Performance Bank Guarantee of value equivalent to 10% of Contract value having validity until end of contract period and further 6 months claim period, which shall be submitted within 15 days of receipt of Order.

7. Liquidated Damages (LD):

LD is applicable @ rate of 1% (of total value of order) per week or part thereof for each week's delay, beyond the scheduled supply date, subject to maximum of 10% of total order value.

8. Other Terms as per General Conditions of Contract:

All other standard terms and conditions as per Tata Power "General Conditions of Contract-for Supply contracts" (attached in RFQ) shall be considered applicable for this RFQ/contract.

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