

INVITATION FOR EXPRESSION OF INTEREST (EOI):
for
Procurement of Biomass Pellets for NTECL Vallur

This expression of interest (Eoi) consists of following Annexure:-

- i. **Annexure 1:** General Information.
- ii. **Annexure 2:** Standard format for response from interested parties.

Annexure- 1

General Information

EXPRESSION OF INTEREST (EOI) FOR SUPPLY OF BIOMASS PELLETS TO NTECL.

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. The Policy mandates use of 5% to 10 % blend of Biomass pellets made, primarily agro residue along with Coal. In order to meet the said requirement, NTECL is hereby inviting Expression of Interest (EOI) from interested and eligible parties for "SUPPLY OF BIOMASS PELLETS TO NTECL.

NTECL Vallur is conceived for running majorly with domestic coal from MCL and coal transportation by rail cum sea mode. The movement of domestic FSA coal from subsidiaries of CIL on rail cum sea mode is a continuous process for year on year running of the Station. Presently, the coal is being supplied from MCL, ECL, CCL, SCCL. In FY 2022-23, Imported Coal (0.5063 MMT) has also been procured to be used by blending with domestic coal.

As per the revised policy for Biomass issued by GOI, all coal based thermal power plants of power generation utilities with Bowl mill, shall on annual basis mandatorily use 5% blend of biomass pellets made, primarily, of agro residue along with coal with effect from one year of the date of issue of the guideline. This obligation shall increase to 7% with effect from two years after the date of issue of the order and thereafter. Further, as per policy, minimum contract period for Procurement of biomass pellets by generating utilities shall be 7 years so as to avoid delay in awarding contracts by generating companies every year and also to build up long-term supply chain.

At NTECL, for running of all the three units (3X500 MW) with 100% PLF, the projected coal consumption per day is 24,000 MT. Total biomass requirement for NTECL in seven years shall be around 24,70,320 MT (i.e. 967 TPD), out of which, 50% shall be Torrefied and 50% shall be Non-Torrefied.

NTECL is taking necessary action to facilitate the enabling conditions for efficient and seamless unloading, storage, sampling for GCV and moisture content analysis, weighment (gross weight and tare weight), blending with coal, analysis of impact on heat rate and ECR and making relevant modifications in boiler/ mill systems for co-firing of biomass briquettes with pulverized coal.

BRIEF SCOPE OF WORK:

- The scope of work under this package shall include supply, loading, transport, and delivery of agro residue-based biomass pellets at NTECL site.
- The pellets supplied shall adhere to the Technical Specification given in EOI document.

INTENT OF SPECIFICATION:

In order to reduce carbon emission of coal fired power plant and also to reduce air pollution by discouraging stubble burning, NTECL intend to procure agro residue based biomass pellets for co-firing in pulverized coal fired units.

- The scope of work under this package shall include supply, loading, transport, and delivery of agro residue-based biomass pellet at NTECL Site.
- Supervision of Unloading shall be in the scope of NTECL. 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-tipling type.
- If supplier, supplies the material packed in bags or in non-tipling type consignment, it shall not be accepted, or supplier shall unload the material at his own cost at NTECL. In that case, for any extra halt of carriage vehicle, demurrage shall not be payable by NTECL.
- The pellets supplied shall adhere to the technical specification given in this document.

Period of contract:

A) Supply Duration:

The period of contract shall be for minimum seven (7) years. Further, after award, if the supplier is not able to supply the allocated quantity of pellets to Plant due to any reason attributed to Plant or reason mentioned in force majeure clause, an additional three-month grace period corresponding to each one year of supply period shall be provided to the supplier. Thus, a maximum 21 Month grace period shall be given corresponding to the supply of seven years. In this grace period, the supplier shall be able to supply leftover quantity out of the total allocated quantity of pellets.

B) Delivery Start date: The supplier shall start delivery of material within 270 days from the issue of the Purchase Order.

Delivery Schedule: Default delivery schedule shall be the quantity allocated to the supplier for the supply of pellets on daily basis, which is XXX MT per day. Accordingly, the supplier shall deliver that quantity of pellets to the Plant site. There should be continuous off take of the biomass by the plant as per terms of contract. Purchaser should not restrict the supply from the supplier unless some exigency happens and with mutual consent with the supplier. Although the supplier shall supply the pellets as per the above delivery schedule, however, the supplier shall have the flexibility to supply the material in higher quantity than the delivery schedule on mutual consent basis to meet the annual supply requirement. In such case, the supplier shall give one-week advance intimation to the Plant site and the site shall give the consent to supply material in higher quantity after assessing traffic congestion or other aspects as required.

Purchaser can also give a reduced daily delivery schedule to the supplier by giving oneweek advance notice through the official e-mail ID of the Engineer-in charge or e-mail ID of any other person authorized by him and the supplier shall dispatch the consignment accordingly.

BIOMASS QUANTITY REQUIREMENT:

Total biomass requirement for NTECL in seven years shall be around 24,70,320 MT (i.e. 967 TPD), out of which, 50% shall be Torrefied and 50% shall be Non-Torrefied. The daily requirement is indicative only and may change based on the actual plant load factor and requirement of the NTECL plant.

TECHNICAL SPECIFICATION OF BIOMASS PELLETS:

Bidder can supply only one type or combination of both Torrefied and Non-Torrefied as per the specification after taking consent from NTECL. The bidder shall quote the price for pellets and its GCV (ARB*). The pellets shall adhere to the technical specification given in following table. However, any variation in GCV or Percentage of fines beyond the limit specified in technical specification shall be rationalized as per Price and Quantity Adjustment.

Sr No	Technical data	UOM	Specification for Torrefied / Non-Torrefied pellets
1	Base Material	-	Agro residue / Crop residue (wood based pellets will not be acceptable)
2	Diameter with cylindrical shape	mm	Not more than 25 mm
3	Bulk density	Kg/m ³	Not less than 600
4	Fines% (Length<3mm) (ARB*)	wt%	% Fines ≤ 5%
5	Moisture (ARB*)	wt%	Not more than 14 %
6	Gross calorific value (ARB*)	kCal/kg	Non-Torrefied : 2800-4000 Torrefied : 3400-5000
7	Hard Groove Grindability index (HGI)		Not less than 50

EXPRESSION OF INTEREST:

NTECL invites Expression of Interest (EOI) from interested Manufacturers of Biomass in the prescribed **FORMAT (Annexure- 2)** for Procurement of Biomass for NTECL. The biomass requirement for all the three units of NTECL for seven years shall be around 24,70,320 MT (i.e. 967 TPD).

How to apply

Interested Manufacturers ready to supply Biomass, may submit their Expression of Interest duly filled in the **Format for Response to EOI (Annexure- 2)** to the address mentioned below on or before **31.01.2023 1430 Hrs.**

Address for Submission:

GM (C&M)
NTPC Tamilnadu Energy Company Limited
Vallur Thermal Power Project,
Kuruvimedu Village, Ponneri Taluk ,
Vellivayal Chavadi Post ,
Thiruvallur District, Chennai – 600103

Email: rajitc@ntpc.co.in /

tprabhakaran@ntpc.co.in

Phone: 044 27926505 / 044 27926509

Note: -

- 1. This announcement is not a commitment for Procurement of Biomass.***
- 2. The party submitting the EOI shall bear all costs associated with the preparation and submission of the EOI. NTECL will, in no case be responsible or liable for these costs, regardless of the conduct or outcome of the assessment / evaluation process.***
- 3. Issuance of EOI/Application Documents to any Applicant shall not construe that applicant is considered Registered for Supply of Biomass Pellets to NTECL.***
- 4. NTECL reserves the right to reject any or all applications or cancel/ withdraw the EOI without assigning any reason whatsoever and in such case no Applicant/ intending Applicant shall have any claim arising out of such action.***

Format for Response to EOI

(On the Company's, letter head duly signed by Authorized Signatory with Company's Stamp)

Eoi for Supply of Biomass Pellets for NTECL

1. Name of the Manufacturer : _____
2. Address : _____

3. Nature of business: : _____
4. Classification of the Company : Public Limited / Private Limited/
Partnership Firm
Others (please specify) _____

5. Contact details : *Name:*
Designation:
Tel No...... (with STD code)
Fax No.:
Mobile No
Email ID:
6. Expected Biomass Supply Qty TPD (Tons per day):

7. **Technical Data**
Base Material : _____
Diameter (mm) : _____
Fines % mm (ARB) : _____
GCV (Kcal/kg) (ARB) : _____
Moisture (ARB) : _____
8. Any other relevant information _____

Date//

Place:

Signature:

Name:

Designation:

Name of the Company:

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Company Seal: