

(INVITATION FOR EXPRESSION OF INTEREST)



**NTPC Limited**

(A Government of India Enterprises)

Invites

Expression of Interest (EOI)

*For*

Identification of Potential Suppliers for Raw Biomass For the torrefied pellet plants being established by NTPC or in association with vendors

## Section-I: EOI Information

### 1.0 ABOUT NTPC:

NTPC Ltd. (A Govt. of India Enterprises), a Maharatna Company, is India's largest power generation company with its roots planted way back in 1975 to accelerate power development in India. Since then, it has established itself as the dominant power major with presence in the entire value chain of the power generation business. From fossil fuels, it has forayed into generating electricity from hydro and renewable energy sources. The total installed capacity of the company is over 72 GW (including JVs). NTPC has an ambitious plan to become 130 GW plus company by 2032. This foray will play a major role in lowering its carbon footprint by reducing greenhouse gas emission.

### 2.0 INTRODUCTION:

Decarbonisation of existing coal power asset is one of the key portfolios for NTPC towards achieving goal of Net Zero. Replacement of coal with carbon neutral fuel such biomass is one of the cost-effective methods to achieve decarbonisation of existing coal fleet.

MOP, GOI has set up a 'National Mission on use of Biomass in coal-based thermal power plants (NBM)' in May'2021 to facilitate enhanced utilization of biomass pellets in power stations. NTPC Ltd is already engaged in the mass utilization of non-torrefied biomass for the co-firing in PC-fired boilers. NTPC have successfully achieved 10 wt.% biomass co-firing with non-torrefied pellets on sustained basis in some of its power plants. NTPC is further aiming to enhance biomass co-firing percentage in its coal fired power plants. Non- torrefied biomass pellets have high volatile matter, poor grindability and fibrous nature which limit the maximum achievable cofiring ratio up to 10 wt.% without any modification. To further enhance co-firing percentage with non-torrefied biomass pellets, certain modification is needed such as installation of separate hammer mills, dual burner, and transport air compressor etc. which leads to additional investment. However, if torrefied biomass pellets are used, this may help in achieving higher co-firing percentage without any modification. Higher co-firing percentage in plants located in biomass rich zone shall promote local utilization and reduces transport cost. Moreover, torrefaction increases GCV by at least 20% which is a further saving in transport cost per kcal of energy carried in torrefied biomass pellet.

NTPC has successfully demonstrated the 20 wt.% torrefied biomass co-firing at 110 MW Tanda plant without any modification and further planning to procure torrefied biomass to continue 20% biomass co-firing on sustained basis in its power plants. Now, NTPC intends to setup torrefied pellet plants in and around its stations on its own or in association with other suitable vendors

### 3.0 ABOUT EXPRESSION OF INTEREST (EOI):

Identification of Potential Suppliers for Raw Biomass For the torrefied pellet plants being established by NTPC or in association with vendors

To promote torrefaction capacity in the country, NTPC invites Expression of Interest (EOI) from the interested parties to supply raw biomass for the torrefied pellet plants being setup by NTPC or for the plants being setup in association with other vendors near NTPC plants. The interested parties may apply under following categories

1. Aggregators – for all NTPC plants/NCR districts
2. Farmers/FPO/Individuals for NTPC Solapur plant

The raw biomass which can be supplied for pellet manufacturing shall be agro residue, which means the leftover portion of the agriculture produce, such as stubble/straw/stalk/husk of those agro residues which are surplus and not being used as animal fodder, such as paddy, soya, arhar, gwar, cotton, gram, jawar, bajara, moong, mustard, sesam, til, maize, sunflower, jute, coffee etc., groundnut shell, coconut shell, castor seed shell etc., pineneedle, elephant grass, sarkanda, bamboo and its by product (e.g. Bamboo chips, Cuttings, Bamboo Dust etc.) and horticulture waste such as dry leaves and trimmings generated

### Eligibility to participate in EOI

- 1) **Aggregators:** Any business entity who have engaged in aggregation of biomass may participate as aggregator for all NTPC Plants /NCR districts
- 2) **Individual Companies/ Firms/ FPO/ farmers /individual:** Any individual, company farmer, FPO & firms may participate **as suppliers for Solapur plant**

At EOI stage, participants may furnish details of present engagement like to whom they are supplying and the max quantities they can supply. Also, the area of biomass collection and area of supply may also be furnished.

EOI is intended to seek willingness, information and intent of participation and the subsequent steps shall be taken at the discretion of NTPC.

### 4.0 EOI TIMELINE:

Interested APPLICANTS may download the documents of EOI free of cost from [www.ntpctender.com](http://www.ntpctender.com) & <https://eprocurementpc.nic.in>. Important dates for the EOI are given below-

Last date for queries/ seeking clarification	Date of publication of EOI + 10 Days
Last date for submission of EOI	Date of publication of EOI + 20 Days

### 5.0 CORRIGENDUM

At any time before the last date of submission of EOIs, NTPC may, for any reason, whether at its own initiative or in response to a clarification requested by an applicant, modify the EOI document. The amendment will be posted on the website and will be binding on the applicant (s) and the applicant will give due consideration to the same, while they submit their EOIs, and would invariably enclose documents/ information, as required, on account of the amendment, as a part of the EOI. NTPC may, at its discretion, extend the deadline for the submission of EOIs.

## 6.0 CONTENT OF EOI:

The application of EOI consists of the following, which be needed to be submitted for a response to be considered valid.

- a) Annexure-1: Covering Letter
- b) Annexure-2: Business-related information
- c) Annexure-3: Technical details of the existing Aggregation experience
- d) Duly notarised Power of Attorney in favour of Authorised Signatory

## 7.0 SUBMISSION OF EOI:

For consideration of EOI, applicants are required to e-mail softcopy of EOI, completed in all respect, through email as well as send the hard copy of the same, which can be submitted either in person or by registered/ speed post till the last date of submission of EOI to the following address:

To                    Sh. G.S Gawra  
                          AGM (FM)  
                          EOC Complex, NTPC limited, Secor 24, NOIDA - 201301 [gsgawra@ntpc.co.in](mailto:gsgawra@ntpc.co.in)

CC                    Sh. Chirag Khanna  
                          Sr. Manager (FM), NTPC Limited, EOC, Noida-201301, [chiragkhanna@ntpc.co.in](mailto:chiragkhanna@ntpc.co.in)

## 8.0 VALIDITY OF THE RESPONSES AND FURTHER PROCESSING OF THE EOI

For the responses to be considered complete, all the required documents need to be submitted, and all the pages of the response should be **duly stamped and signed by the Authorized Signatory in whose favour the Power of Attorney is issued.**

NTPC Ltd. may, at its sole discretion, ask for additional information/ documents and/ or seek clarifications from the applicant (s) after the deadline for submission of a response, inter alia, for the purpose of removal of inconsistencies or infirmities in their responses.

The vendors are requested to submit all documents detailed in this EOI to facilitate expeditious evaluation of responses.

NTPC reserves the right to reject any response at its discretion and no representation of any kind will be accepted in this regard.

Further to the above, NTPC reserves the right to reject or accept any or all applications, cancel/withdraw the EOI process without assigning any reason whatsoever and in such case, the APPLICANT shall not have any claim arising out of such action. NTPC bears no responsibility or liability of any kind in reference to the EOI.

#### **9.0 COSTS AND EXPENSES TOWARDS RESPONSE TO EOI**

The Applicants shall be responsible for all the costs associated with the preparation of the response and participation in discussions and finalization & execution of the documents related with this EOI, NTPC shall not be responsible in any way for such costs, regardless of the conduct or outcome of this short-listing/ selection process.

#### **10.0 SHORTLISTING METHODOLOGY**

The applications received against this EOI shall be evaluated based on the information so provided by the vendors. The evaluation shall be carried out by an expert team of NTPC, which will also include visit of the team to the location, technology assessment, performance analysis and its financial capability analysis. The expert team will evaluate experience and capability of the applicant.

#### **10.0 AWARD OF WORK AFTER EVALUATION**

The vendors shortlisted through this EOI will be given an opportunity to supply raw biomass for pellet plants in NTPC or in the vicinity of NTPC stations/NCR districts.

NTPC may enter into an agreement with the shortlisted vendors for procurement of raw biomass of specified quality and quantity on terms and conditions to be decided subsequently. The methodology of price discovery may be decided through a limited tender issued to shortlisted vendors or any other method as found suitable by NTPC.

The exact period of agreement and exact terms and conditions may be finalised in consultation with the vendors shortlisted through this EOI. NTPC will strive to keep the term of the agreement of a longer duration so that vendors are able to get access to funding for the proposed project. However, the decision of NTPC in this regard shall be final.

It is further clarified that participation in this EOI does not give any assurance of orders, and the subsequent steps shall be decided by NTPC at its own discretion.

#### **11.0 QUANTITY OF RAW BIOMASS TO BE AWARDED**

The capacity of the applicant will be decided based on capability of the shortlisted vendors. However, NTPC shall be open to accepting raw biomass supply for any of the pellet plants being set up in NTPC or in association with NTPC. The tenders / enquiry for purchase of biomass shall be separately published.

## Section-II: Application Form & Annexures

### ANNEXURE-1

#### FORMAT FOR COVERING LETTER CUM UNDERTAKING

(The covering letter should be on the Letter Head of the Applicant)

Date : \_\_\_\_\_

Place : \_\_\_\_\_

To, .....

Sub.: (INVITATION FOR EXPRESSION OF INTEREST FOR SUPPLY OF RAW BIOMASS IN NTPC OR IN THE VICINITY OF NTPC STATIONS/NCR districts)

Ref.: EOI No. \_\_\_\_\_, dated \_\_\_\_\_ (the "EOI")

Dear Sir,

We, the undersigned ..... [Insert the name of the "Applicant"] having read, examined and understood in detail the (INVITATION FOR EXPRESSION OF INTEREST).

We confirm that neither we nor any of our Parent Company/ Affiliate/ Ultimate Parent Company has submitted a response other than this response directly or indirectly in response to the aforesaid EOI.

1. We give our unconditional acceptance to the EOI, issued by NTPC, as amended. In token of our acceptance to the EOI, the same has been signed & stamped by us and enclosed to the response. We hereby confirm that the provisions of the EOI shall be binding on us.
2. We have submitted our response strictly as per provisions and formats of the EOI, without any deviations, conditions and without mentioning any assumptions or notes.
3. We hereby unconditionally and irrevocably agree and accept that the decision made by NTPC in respect of any matter regarding or arising out of the EOI shall be binding on us. We hereby expressly waive any and all claims in respect of the EOI process. We confirm that there are no litigations or disputes against us, which materially affect our ability to participate or function under the obligations regarding EOI.
4. Details of the contact persons are furnished as below:

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	<b>Contact person 1</b>	<b>Contact person 2</b>
Name:		
Designation:		
Address:		
Contact number:		
Email id:		

5. We are enclosing herewith the entire response containing duly signed formats in electronic format sent via email to NTPC as per the EOI for consideration.
6. It is confirmed that our response is consistent with all the requirements of submission as stated in the EOI and subsequent communications from NTPC if any.
7. The information submitted in our response is complete, strictly as per the requirements stipulated in the EOI and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our response.
8. We confirm that we have not taken any deviation so as to be deemed “non-responsive”.
9. We understand that you are not bound to accept any response you receive.

We remain,

Yours sincerely

**(Name, Designation and Signature of Authorized Person and seal of the company)**

## ANNEXURE-2

The following are the details of our firm which are supported by documentary evidence:

Annexure-A	Name of the Company /firm	
	Type of company/Firm	
	Registered office address and contact details	
Annexure-B	Name and designation of authorized signatory for this EOI to be submitted along with valid Power of Attorney	
	Address for communication of authorized signatory with contact details	
Annexure-C	Details of business owned by the company/firm	
Annexure-D	<b>Organization details</b> CIN GSTIN PAN PF Account No. ESI code Shareholding pattern MSME (if applicable) Udyam certificate Any other details	
Annexure-E	Location of the aggregation area	
Annexure-F	Orders for raw biomass (Customer Name and Address, Date of order, ordered quantity) and	
	Up to date Quantity of raw biomass supplied against each order (Certified by the customer)	
	Mode of transportation (preferred)	



Annexure-F	<p>Average Annual Turnover and Net worth in last three financial years (as per Audited Balance Sheet and Profit &amp; Loss account duly certified by Chartered Accountant with sign and seal).</p> <p>(Attach audited financial statement of last three years)</p>	
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It is certified that the information provided in this Annexure-2 is correct to the best of my/our knowledge. We fully understand that if any misrepresentation of information is detected, our response against the EOI shall be liable for rejection.

**(Name, Designation and Signature of Authorized Person and seal of the company)**

### ANNEXURE-3

The following are the details of our aggregation facilities which are supported by documentary evidence:

Sl. No	DETAILS	REMARKS (Kindly enclose separate papers wherever required)
A	GENERAL DETAILS	
A.1	Aggregator/ Firm/ FPO/Individual/farmer	
A.2	Whether interested in All NTPC plants or for NTPC Solapur	
A.2	Contact Details of the customer representative (Email, Phone, Fax, Mobile)	
B	TECHNOLOGY - GENERAL	
B.1	<b>Details of available equipment (make, Rating, Capacity for each)</b> 1. Cutter /Rotary Slasher 2. Tedder Machine Small: 3.Raker Small/ large 4.Baler (Small/large/ square/ round/ stationery) 5.Tractor for baler 6.Tractor for Tedder & Rake Tractor 7.Trolley / Automatic bale loading trolley 8. Telehandler 9. Tractor attachment for Stacking (grabber)/Loader 10. Fire Extinguisher 11. Lightening Arrestor 12. Any other equipment essential for safe collection and aggregation of biomass in large scale	
C	TECHNOLOGY - SPECIFIC	
	Details of any specialised equipment being used, which differentiates the vendor from other aggregators, may be provided here.	

D	BUSINESS INFORMATION	
D.1	capacity of aggregation (in tonnes)	
D.2	Tentative cost of development & setup of aggregation facility, if existing	
D.3	Tentative Cost of O&M for maintain aggregation facility (Kindly provide detailed breakup including (i) manpower cost, (ii) power cost, (iii) consumables & spares etc., If existing	
D.8	Tentative time for setting up for new aggregation facility for aggregation at new place	
D.9	Suitable period of agreement (2/3/5/7/10 years)	
D.10	Technical parameters: NTPC follows standard technical parameters or assessing the quality of the raw material. If you have any suggestions, please elaborate.	
D.11	Payment methodology: In case of pellets, the payment is GCV based with pro-rata adjustment of GCV from the nominal value. What would be the suggested methodology for payment for raw biomass.	
E	Any other inputs/suggestions for making this model work.	

It is certified that the information provided in this Annexure-2 is correct to the best of my/our knowledge. We fully understand that if any misrepresentation of information is detected, our response against the EOI shall be liable for rejection.

**(Name, Designation and Signature of Authorized Person and seal of the company)**