

(INVITATION FOR EXPRESSION OF INTEREST)

NTPC Limited

(A Government of India Enterprise)



INVITATION FOR EXPRESSION OF INTEREST (EOI)

FOR

**IDENTIFICATION OF DOMESTIC VENDORS FOR INDIGENEOUS MANUFACTURING
OF EQUIPMENTS FOR THERMAL POWER PLANTS**

(INVITATION FOR EXPRESSION OF INTEREST)

(INVITATION FOR EXPRESSION OF INTEREST)

DETAILED NOTICE INVITING EXPRESSION OF INTEREST (EOI)

EOI No.: NTPC/PEM/EOI/15/2025

Date: 13.02.2025

NTPC is Inviting an Expression of Interest for “Identification of domestic vendors for Indigenous manufacturing of equipments for thermal power units”.

1.0 Objective:

- (i) To promote 'Atmanirbhar Bharat' and 'Make in India' policy of Government of India, it is intended to identify domestic vendors who do not have prior experience & not getting qualified themselves for manufacturing of certain identified equipments. ***This EOI is to identify interested domestic vendors for Trial/Development order at NTPC for equipment(s) (mentioned at Annexure-A along with minimum eligibility criteria) for thermal power plants.***
- (ii) Based on EOI response, NTPC will prepare a database of such domestic vendors and may explore the possibility of trial/development order for the identified equipment(s) at NTPC. The Purpose of development order is to qualify the Domestic Vendor(s) for identified equipment(s) for the type and capacity for the upcoming NTPC tenders after successful completion of demonstration of Trial/Development order.
- (iii) Trial/ development order of identified equipment shall be considered successful based on minimum one-year successful operation of the equipment and meeting the rated parameters as well as guarantees, as applicable. Successful operation definition and the operation parameters required to establish the performance shall be finalized before order and shall be part of order.
- (iv) As per NTPC decision regarding these trial/development orders based on EOI response, detailed discussion may be done with such applicants and technical and commercial terms and condition for subsequent techno-commercial proposal for identified equipment(s) shall be finalized by NTPC.

2.0 DOWNLOAD AND TIMELINES FOR SUBMISSION OF EOI

- a. Interested APPLICANTS may download the documents of EOI free of cost from www.ntpctender.com & <https://eprocurrentpc.nic.in>
- b. **Last date for EOI submission: 12.03.2025**

(INVITATION FOR EXPRESSION OF INTEREST)

c. Response Validity: 24 months from Last Date of EOI Submission

3.0 NTPC encourages submission of EOI in soft copy. For consideration of EOI, APPLICANTS are required to e-mail softcopy, completed in all respect, from its official e- mail ID to below mentioned e-mail IDs. If APPLICANTS also wish to submit hard copy of the EOI, the same can be submitted either in person or by registered/ speed post till the last date of submission of EOI to the following address: -

To: Pratap Kalarath, Sr Manager (PEM-TG & System)

Email: pratapkalarath@ntpc.co.in

CC to: pawandwivedi@ntpc.co.in

Project Engineering (Mechanical/TG & System),

NTPC Limited, SRHQ, NTPC Bhavan, Kavadi guda, Secunderabad-500080

4.0 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, 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.

(INVITATION FOR EXPRESSION OF INTEREST)

SECTION-I

INFORMATION TO APPLICANT

1. NTPC Limited, a Govt. of India Enterprises, NTPC group produces around 400 billion units of electricity annually through its cluster of gas, coal, hydro and RE based power stations of more than 77 GW capacity spanning across the country.

2. INTENT OF THE EXPRESSION OF INTEREST (EOI)

This EOI is to identify interested domestic vendors for Trial/Development order at NTPC for equipment(s) (mentioned at Annexure-A along with minimum eligibility criteria) for thermal power plants.

3. THE APPLICANTS SHOULD NOTE THAT:

- a. Language of the responses to EOI or any query/clarifications/correspondences shall be in English only.
- b. For expression of interest, Application Form and Annexures given in Section-II shall be duly filled and sent to NTPC by the APPLICANT in soft copy.
- c. Applicants should go through Section-I thoroughly before filling and submitting the application form and annexures in Section-II.
- d. Applicants shall mention the name and contact details of two persons, with complete address, phone number and official email id.
- e. 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 response, inter alia, for the purpose of removal of inconsistencies or infirmities in their responses.
- f. Based on EOI response, NTPC will prepare a database of such domestic vendors and may explore the possibility of trial/development order for the identified equipment(s) at NTPC.
- g. This EOI is indicative only and non-committal.

4. ENQUIRIES AND CLARIFICATIONS

Any clarifications on the EOI may be sought to the following via email:

To: Pratap Kalarath, Sr Manager (PEM-TG & System)

(INVITATION FOR EXPRESSION OF INTEREST)

Email: pratapkalarath@ntpc.co.in
CC to: pawandwivedi@ntpc.co.in

5. 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 Applicants 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. VALIDITY OF THE RESPONSES

The Applicant shall submit the responses which shall remain valid up to Twenty Four (24) months after the response Deadline ("Response Validity"). NTPC reserve the right to reject any response, which does not meet the afore mentioned validity requirement.

NTPC may solicit the Applicant's consent for an extension of the period of validity of the application. The request and the response in this regard shall be in writing.

7. SUBMISSION OF THE RESPONSE TO EOI

The responses to the EOI are to be submitted in soft copy via below e-mail format
To: pratapkalarath@ntpc.co.in
CC to: pawandwivedi@ntpc.co.in

Ref. EOI No. **NTPC/PEM/EOI/15/2025**

Dated: -----

Submitted to:

*Pratap Kalarath,
Sr Manager (PEM-TG & System)
Project Engineering (Mechanical),
NTPC Limited, SRHQ, NTPC Bhavan,
Kavadiguda, Secunderabad-500080*

Submitted by:

Name, address & contact no. of the Applicant

All the pages of the response should be duly stamped and signed by the authorized signatory.

The responses to the EOI should be submitted within the Deadline as mentioned in this document.

(INVITATION FOR EXPRESSION OF INTEREST)

8. COSTS AND EXPENSES TOWARDS RESPONSE TO EOI

The Applicants shall bear all the costs associated with the preparation of the response and participation in discussions and finalization & execution of the documents related with this EOI, regardless of the conduct or outcome of this process.

9. CONFIDENTIALITY

The Applicants undertake to hold in confidence this EOI and any document related or pursuant to this EOI and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- (a) To their professional advisors;
- (b) To their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities;
- (c) Disclosures required under applicable Law, without the prior written consent of the other parties of the concerned agreements.

Provided that the Applicant(s) agrees and acknowledges that NTPC may at any time, disclose the terms and conditions of this EOI and any document related or pursuant to this EOI to any person, to the extent stipulated under the applicable Law.

xxxx

(INVITATION FOR EXPRESSION OF INTEREST)

SECTION-II
APPLICATION FORM & ANNEXURES

(INVITATION FOR EXPRESSION OF INTEREST)

Annexure-1

FORMAT FOR COVERING LETTER CUM UNDERTAKING

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

Date: _____

Place: _____

To,

Pratap Kalarath, Sr Manager (PEM-TG & System)
Project Engineering (Mechanical),
NTPC Limited, SRHQ, NTPC Bhavan,
Kavadiguda, Secunderabad-500080

**Subject: IDENTIFICATION OF DOMESTIC VENDORS FOR INDIGENOUS
MANUFACTURING OF EQUIPMENTS MENTIONED AT ANNEXURE-A.**

Ref.: EOI No. NTPC/PEM/EOI/15/2025, dated

Dear Sir,

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

1. We give our unconditional acceptance to the EOI, issued by NTPC, as amended. In token of our acceptance to the EOI, the same have 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 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 with regard to EOI.

(INVITATION FOR EXPRESSION OF INTEREST)

4. Details of the contact person are furnished as below:
Name:
Designation:
Address:
Contact numbers:
email id:
5. We are enclosing herewith the entire response containing duly signed formats in electronic format sent via email to pratapkalarath@ntpc.co.in 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 all the terms and conditions of our response are valid for acceptance for a period of Twenty Four (24) months from the response Deadline.

We remain,

Yours sincerely

(Name, Designation and Signature of Authorized Person)

(INVITATION FOR EXPRESSION OF INTEREST)

Annexure-2

GENERAL INFORMATION TO BE SUBMITTED BY APPLICANT FOR TRIAL/DEVELOPEMNT ORDERS FOR IDENTIFIED EQUIPEMNT(S)

1. Name of Applicant Company:
2. Legal status of the Applicant Company:
3. Brief description of the Company including details of its business groups/subsidiaries/ affiliates:
4. Date of Incorporation:
5. Date of Commencement of Business:
6. Shareholding details:
7. Full address including Telephone nos. / Fax nos.:
 - a. Registered Office:
 - b. Head Office:
 - c. Address for communication:
 - d. Contact Details:
 - e. Office Address in India, if any:

8. Existing Manufacturing facilities – locations, capacity, Complete address

9. Documents to be enclosed:

Technical Credentials –

- a) Supporting document for technology ownership for the equipment proposed for Indigenous manufacturing, if any.
- b) Details of Intellectual Property Rights (IPR) held, patent filed/held, and MOU/agreement signed

Financial Credentials –

- a) Copies of Audited Financial statements (Annual Reports) for preceding 3 financial years as on the date of EOI submission.
 - i. Average Annual Turnover for preceding 3 financial years.
 - ii. Net worth for the preceding financial year.
 - iii. Paid up Share capital for the preceding financial year.

10. We confirm that we are interested in manufacturing of equipment(s) (indicated at Annexure-A) similar to proven equipment(s) and these equipment(s) will be designed to operate on same foundation as of proven equipment(s), same electrical rating, cooling system, lube oil system, etc.
11. We agree that if Trial/ development order of equipment considered by NTPC, the same shall be considered successful based on minimum one-year successful operation of equipment and meeting the rated parameters as well as guarantees, as applicable. We also agree that successful operation definition and the operation parameters required to establish the performance shall be as stipulated by NTPC for respective equipment(s).
12. We will share product development process, Quality checks and technical details with NTPC, if Trial/ development order of equipment(s) considered by NTPC.

(INVITATION FOR EXPRESSION OF INTEREST)

13. We confirm that if Trial/ development order of equipment considered by NTPC, we will follow Specification requirements and Codes and Standard as specified.
14. We confirm that if Trial/ development order of equipment considered by NTPC, Bill of Quantity and cost of the equipment with proper justification shall be shared with NTPC and Work/time Schedule for supply, erection and commissioning, other terms and conditions including payment terms shall be finalized before order.
15. We confirm that if Trial/ development order of equipment considered by NTPC, if at any stage after/during erection/operation, equipment is not performing and modification/repair taking longer time in the opinion of the owner, NTPC reserves the right to reject the equipment and we will replace the same with proven equipment, if applicable, without any cost implication to NTPC
16. We understand that if trial operation fails, NTPC may recover the amount paid to us by encashing the applicable PBG (performance Bank Guarantee) submitted by us at the time of placement of trial order.
17. We confirm that, we will fulfill specified minimum guaranteed life as applicable after the trial period for the equipment(s) being considered.
18. We confirm that in case of any problem encountered during equipment performance, maximum two (2) nos. of chances shall be given for modification of equipment. Maximum time of One Year and Three Months shall be given after commissioning of equipment for proving successful operation of the equipment for a period of one year. Time due to non-operation of equipment due to Owner's part shall not be added in maximum time limit.
19. We confirm that we will replace the Equipment(s) immediately with proven equipment(s), if applicable, in case the equipment is not found successful in Trial/Development order without any additional cost implication to NTPC.
20. Any other documents considered relevant.

(Sign & Company Seal)
Authorized signatory

(INVITATION FOR EXPRESSION OF INTEREST)

Annexure-3

**ESSENTIAL INFORMATION TO BE SUBMITTED BY APPLICANT FOR EACH
EQUIPMENT MENTIONED AT ANNEXURE-A**

Essential Information:

1	Equipment description and type	
2	Detail of technical basis for giving confidence for manufacturing equipment without any collaboration, any experience of similar equipment etc.	
3	Manufacturing set up details, Annual capacity, Complete Manufacturing and bought item plan for equipment	
4	Quality checks adopted	
5	Equipment Rating	
	i) Details of all ratings for which applicant is interested in setting up manufacturing facilities/already have manufacturing facilities to be furnished ii) Rating upto which the equipment being manufactured iii) Reason for not going for higher rating manufacturing	
4	Design capabilities	
5	Engineering capabilities	
7	Local content	
8	Lead time for manufacturing facilities set-up	
9	i) Past experience/references where this equipment is supplied ii) Performance feedback	
11	Type testing facilities available or not	
12	Performance testing facilities available or not	
13	Spare support (Please fill period till it will be provided)	
14	If applicant is already NTPC approved vendor	
15	If applicant is approved by EPC/SG/STG/BoP vendors (Please mention name)	
16	Enclose the details of Domestic supply orders executed, if any	
17	Enclose the details of Export Supply Orders, if any,	
18	Details of National/International certification/accreditation, if any.	
19	Applicant is willing to execute trial order (in case applicant is considered for the trial order) at their own expenses. Note: Priority will be given to applicants who are willing to install the trial order equipment(s) without any payment from NTPC till completion of successful operation fulfilling all requirements of EOI.	<u>Yes/No</u>
20	Any other relevant information	
21	Details of Product Development Stage for the equipment(s) for which applicant is interested in trial/development order	
a.	Equipment Size	
b.	Equipment Type	

(INVITATION FOR EXPRESSION OF INTEREST)

c.	Equipment Rating	
d.	Cost and Schedule	
e.	Production Capacity	
f.	Design Development	
g.	Development of manufacturing Process	
h.	Development of Manufacturing Drawing	
i.	Review of Design and Manufacturing Process	
j.	Development of QP/MQP/FQP	
k.	Tests to be carried out for sourcing of Raw material	
l.	Development of shop test facilities	
m.	Lead time for manufacturing facilities set-up	
n.	Development of Stage Inspection	
o.	Final inspection and model/shop test of Prototype	
p.	Work/time Schedule for supply, erection and commissioning	
q.	Guarantees for performance, specific period of running hours and warranty of the product	

(INVITATION FOR EXPRESSION OF INTEREST)

Annexure-A		
Sl. No	Equipment Description	Minimum Eligibility Criteria
1	Boiler separator safety valves for 660 MW Unit and above	The bidder should have manufactured & supplied safety valves for similar applications in coal fired thermal power plant of 500MW unit or above, having minimum pressure, temperature & relieving capacity of 175 ksc, 540 deg C & 115 T/hr respectively and should have been in successful operation at least One (1) year prior to the closing date of EOI.
2	Boiler Reheater Safety valve for 660 MW Unit and above	The bidder should have manufactured & supplied safety valves for similar applications in coal fired thermal power plant of 500MW unit or above, having minimum pressure, temperature & relieving capacity of 45 ksc, 540 deg C & 120 T/hr respectively and should have been in successful operation at least One (1) year prior to the closing date of EOI.
3	Boiler super heater safety valve for 660 MW Unit and above	The bidder should have manufactured & supplied safety valves for similar applications in coal fired thermal power plant of 500MW unit or above, having minimum pressure, temperature & relieving capacity of 175 ksc, 540 degC & 115 T/hr respectively and should have been in successful operation at least One (1) year prior to the closing date of EOI.
4	Agitators for FGD (Top & Side Entry)	The bidder/ sub-vendor should have - <ul style="list-style-type: none"> - designed, supplied, erected and commissioned or supervised erection & commissioning of at least One (1) number of Agitator for FGD applications or other process industries application such as fertilizer, chemical, metals & mining handling slurry of similar nature to FGD application. and <ul style="list-style-type: none"> - Successfully running for at least one year prior to the closing date of EOI. and <ul style="list-style-type: none"> - In case of vertical agitators, applicant should have experience of supplying agitators having minimum 70% shaft length of intended application.
5	Primary & Secondary Hydro cyclones	Bidder should have designed, supplied, erected and commissioned (or) supervised erection and commissioning at least one (1) number of hydro cyclone in FGD applications or other process industries application such as fertilizer, chemical, cement, metals & mining handling slurry of similar nature to FGD application.

(INVITATION FOR EXPRESSION OF INTEREST)

6	Condenser Vacuum Pumps for 660 MW Unit and above	The applicant manufacturing Liquid ring type Condenser Air Evacuation Pump for thermal power plants, steel, oil & gas, petrochemical, fertilizer and / or any other process industry.
7	Drive Turbine for Boiler Feed Pump for 660 MW Unit and above (Not for Development Order, only for identification of Domestic Vendor)	The applicant manufacturing Drive Turbine for thermal power plants, steel, oil & gas, petrochemical, fertilizer and / or any other process industry.
8	BFP Hydraulic Coupling for 660 MW Unit and above	The applicant manufacturing hydraulic couplings for thermal power plants, steel, oil & gas, petrochemical, fertilizer and / or any other process industry.
9	Compressors of Window/Split Air Conditioners/Chilling Machines	The applicant manufacturing and supplied compressors for air conditioners/ chilling machines.
10	Fire alarms system	The applicant manufacturing Fire Alarm System for thermal power plants, oil refineries, nuclear power plants, steel plants, defense manufacturing sector, space sector or other process industries.
11	Inert Gas extinguishing system	The applicant has designed and supplied at least one (1) Inert gas total flooding fire extinguishing system having a total risk volume of at-least 1000 Cum. This system must have been designed to the recommendation of Tariff Advisory Committee of India or any other International reputed authority (like LPC-U.K. or NFPA, USA) and should have been in operating condition for a period not less than one (1) year.
12	CPU Resins (Cation, Anion, Inert resin) (Not for Development Order, only for identification of Domestic Vendor)	The applicant should be a manufacturer of ion exchange resins for DM plant application for a thermal power plant or any other process industries.
13	RO Membranes (Not for Development Order, only for identification of Domestic Vendor)	The applicant should be a manufacturer of industrial RO membrane of minimum capacity 500LPH permeate for each membrane & salt rejection rate of not less than 95%.
14	High Concentration Slurry disposal (HCSD) pumps for 660 MW Unit and above	The applicant should have manufacturing unit in India with technology collaboration with approved HCSD pump supplier or established design agency. HCSD pump's minimum technical parameters for handling Indian ash shall be as follows: <ul style="list-style-type: none"> • Average HCSD Pump Capacity-200 Cum/Hr. • HCSD pump discharge pressure range-40 to 100 bar. • Average ash Concentration-60%.

(INVITATION FOR EXPRESSION OF INTEREST)

15	Slew Ring for stacker cum reclaimer (Up to 5m diameter)	Slew ring shall be suitable for stacker and reclaimer machine of minimum capacity of 1000TPH for slew ring diameter of 3 meters or above.
16	Vibration Monitoring System	The applicant manufacturing Vibration Monitoring System (all electronic modules including sensors) for thermal power plants, oil refineries, nuclear power plants, steel plants, defense manufacturing sector, space sector or other process industries.
17	Mineral Insulated Copper Conductor Cable	The applicant manufacturing Instrumentation, control and power cables for thermal power plant or any other process industries.
18	Naturally Occurring Gamma Ray Sensor (NOGS) Technology based Ash Level Monitor	The applicant manufacturing instruments for radioactivity measurement for thermal power plants, oil refineries, nuclear power plants, steel plants, defense manufacturing sector, space sector or other process industries.