



**OWNER:**

**THE TATA POWER COMPANY LIMITED**

**TITLE OF WORK TO BE AWARDED:**

**Refractory Services for Bottom Ash Hopper in Ash handling plant**

**AT**

**MUNDRA THERMAL POWER STATION (MTPS), GUJARAT**

**ENQUIRY REFERENCE NO.: MTPS25-2000018125**

## NOTICE INVITING EXPRESSION OF INTEREST (EOI)

<b>Enquiry reference no.:</b> MTPS25-2000018125
<b>Title of Work:</b> Refractory Services for Bottom Ash Hopper in Ash handling plant at Tata Power Mundra.
<b>Type of Bidding:</b> E-tendering (through Ariba online portal) / Two Part (Technical and Price bids under separate envelopes)
<b>Contact Details:</b> All communication including EOI submission shall be addressed to following officer/s: Name: Mr. Punit Jain Email: <a href="mailto:punit.jain@tatapower.com">punit.jain@tatapower.com</a> Copy of all communications shall be marked to (Cc): Name: Mr. Anil Agarwal Email: <a href="mailto:anil.agarwal@tatapower.com">anil.agarwal@tatapower.com</a>

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

**Table 1 - Tender Summary**

<b>Package Details</b>	<b>Tender Fee</b>	<b>Bid Security</b>
Refractory Services for Bottom Ash Hopper in Ash handling plant	INR 2000/- (INR Two Thousand Only). <i>To be submitted along with EOI.</i>	INR 40,000/- (INR forty thousand Rupees Only). <i>Bid Security to be submitted as a Bank Guarantee or RTGS or Demand Draft at the BID stage and not with EOI</i>

### **1. INTRODUCTION:**

The Tata Power Company Limited (TPCL) is among the largest private sector Power Utility companies in India with presence in Generation, Transmission and Distribution of Power through conventional and renewable sources.

Mundra Thermal Power Station (A Tata Power Division) has implemented the 4150 MW UMPP near the port city of Mundra in the state of Gujarat in India. This UMPP is India's first 830 MW unit thermal power plant using supercritical technology. MTPS operates on imported coal on pulverized coal-based boiler technology. The generating plant is in Tunda village of Mundra district in the state of Gujarat, India.

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

The Tata Power Company Limited,  
Mundra Thermal Power Station - Ultra Mega Power Plant,  
(Formerly a Unit of Coastal Gujarat Power Limited),  
Tunda-Vandh Road, Tunda Village,  
Mundra, Kutch 370 435, Gujarat.

## **2. SCOPE OF WORK:**

The scope of work under this tender will cover the Refractory Services for Bottom Ash Hopper Bottom ash Castable refractories- Application & Scope of Work

### **A. Bottom ash hopper refractory vendor scope.**

1. Inspection of bottom ash hopper refractory after hopper complete evacuation to be carried out along with Tata Power & Contractor.
2. All damaged refractory as per instruction of Tata Power to be removed by vendor by pneumatic breakers. Removed refractory material to be removed properly at outside BA hoppers to ground floor by feed gates is in vendor scope
3. Outside BA hoppers -seal trough area additional boxes refractory to be removed by vendors by pneumatic breakers, MS plates will be removed by Tata Power
4. Removal of all old anchors which are Damaged as per instruction of Tata Power
5. All Mechanical work such as removal/replacements of Hopper casing plates, seal trough plates, all flushing nozzles, vent, overflow louvers, refractory cooling headers etc. will be in scope of Tata Power
6. All SS316L anchor to be welded as per drawing will be in scope of vendor along with welding rods (SS316L and SS309L) , Refractory anchors will be provided by Tata Power .
7. All surface preparation prior to refractory application such as shuttering application, black bitumen paint application will be in vendor scope. Only Black bitumen paint will be provided by Tata Power.
8. Casting of refractory as per Tata Power specification with suitable vibrators is in scope of vendors.
9. Wherever required for application of refractory chipping, breaking along with all accessories like pneumatic breakers, vibrators & other tools that are in contractor scope.
10. All refractory material to be shifted from Tata Power store to Working units is in scope of vendors.
11. For refractory application Tata Power will provide DM water at single point at a distance around 90-100mtr from Hopper's area, vendor has to arrange all hose pipes & fittings, water storage tanks etc.
12. Ice required for refractory casting is in vendors scope.
13. Inside hoppers scaffolding to be erected by Tata Power, any damage of scaffolding material due to refractory application, shuttering installation during job to be back charged to vendor by Tata Power.
14. For application of refractory scaffolding to be erected at zero mtr. at both side manholes for castable mixture transportation from mixture machine to inside hoppers.
15. All electrical tools & tackles to be certified by Tata Power EMD team before commencing of job.
16. Refractory dry out to be carried out as per refractory specification, along with all set up including oils. Separate line quote to be given for dry out of refractory.
17. All job to be executed as per Tata Power safety standards/procedure.

18. Approximately 70 to 80 MT refractory material will be used depending upon actual conditions of each hoppers, PO should be made accordance to refractory material applied not full qty. minimum say 70 MT can be fixed in PO .

19. All removed refractory material debris to be removed from hoppers and placed at zero meter through feed gates or Manholes at one location. proper housekeeping to be maintained inside hoppers by vendors.

20. Housekeeping to be done on regular basis, empty refractory bags to be stored properly & after job completion to be returned to Tata Power store

21. After job completion any balance material to be shifted at Tata Power store .

### **I. Mixing**

The different grains of the castable segregate during transportation. Therefore, it is necessary to dry mix the mass thoroughly before adding water. Mixing is done on a clean floor or tray using clean tools or in concrete mixers. The water requirement in the mix is a major factor for getting the best results. Quantity depends upon the method of placing (troweling, ramming & vibrating) the concrete.

To determine the right consistency, a compact ball of the mix may be prepared, tossed about a foot high & allowed to fall back in the hand. If the ball does not disintegrate on falling nor the mix bleeds through the fingers, then it is the right consistency.

### **II. Hot weather precautions:**

The temp. Of wet mix should be around 20 Deg. C. the mixed castable must be protected from the direct heat during placing. Mixing water temp should not be more than 15 Deg C, it is recommended that adding of ICE to reduce water temp. Required qty. of ice & application is in contractor scope.

### **III. Placing**

The surface to which the castable is to be applied should be clean & free from rust, scale. Dust & other foreign materials.

Notes: After manpower mobilization following timelines to be considered

- a) Initial 4-5 days required for Mechanical job- such as clinker removal, scaffolding preparation, damaged plates/pipes removal etc.
- b) After above jobs refractory vendor job to be started for refractory chipping /breaking, both hoppers front will be given one by one.
- c) After refractory chipping mechanical job will require 5-6 days parallel in both hoppers
- d) After mechanical jobs vendor must start the refractory casting.
- e) Between Mechanical jobs refractory vendor has to be idle, no extra amount to be charged between these periods.

### **B. Tata Powe scope**

1. Scaffolding erection inside hopper as per requirement.
2. Bottom ash hopper Mechanical work inside hopper such as Hopper casing plates, seal trough plates, all flushing nozzles, vent, overflow louvers installation will be in scope of Tata Power

3. Tata Power will provide all refractory material.

All necessary resources such as manpower, machineries, material handling equipment's, tools & tackles, PPEs, etc required for execution of the job shall be taken care by the service provider.

Bidder should depute necessary resources all the time at site and any emergency work to be completed within 24 Hrs.

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

### 3. TENDER FEE & TIMELINES:

a. Interested parties meeting the "Bidder Pre-Qualification Requirements" 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 the deadline specified below. Request for extension of EOI submission date will be not entertained.

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

- Mails shall be addressed to (To): [punit.jain@tatapower.com](mailto:punit.jain@tatapower.com)
- Must Mark a copy to (Cc): [anil.agarwal@tatapower.com](mailto:anil.agarwal@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 Table 1 above may be paid through **NEFT** as per details for payment of Tender Fee given in Table 2 below:

Table 2

Details for payment of Tender Fee:	
Bank details for submitting Tender fees through bank transfer / NEFT:	Beneficiary Name: TATA POWER CO LTD Bank Name: STATE BANK OF INDIA A/c no: 30545457373 IFS Code: SBIN0009995 A/c type: CURRENT ACCOUNT Branch Name & Address: CAG BRANCH, NEVILLE HOUSE, 23 J N HEREDIA MARG, BALLARD ESTATE, MUMBAI-400001
Deadline for tender fee payment and submission of EOI:	<b>12<sup>th</sup> July 2024.</b>

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 and your EOI to participate in the tendering process.
  - Tender fee payment details / reference number (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.
- 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 the terms mentioned in this document.

#### **4. BIDDER PRE-QUALIFICATION REQUIREMENTS:**

Interested parties to note that Bidder shall be required to fulfill the following bidder pre-qualification requirement / criteria to qualify for the subject work. Bidder will be required to submit relevant supporting documents to demonstrate their qualification along with EOI against Tender document and bidders not found meeting the pre-qualification requirements given below will be disqualified from the tender.

##### **4.1 TECHNICAL REQUIREMENT:**

- 4.2.1 The bidder must have proven experience of BA hopper refractory jobs for a single project in the last two financial years.
- 4.2.2 The Bidder should have minimum 10 years' experience of BA hoppers refractory dismantling/application of similar 250MW and above of at least 2 water impounded Bottom ash hoppers.
- 4.2.3 Bidder shall submit the following document along with the Bid Document in support of the qualification criteria specified above:
- 4.2.3.1 The bidder must have executed the job of application of Castable and Pourable refractory in Boiler areas in Thermal Power Plant having unit size of 210 MW or above in Private /Public Sector or reputed IPPs/CPPs.
  - 4.2.3.2 A reference list of executed projects in thermal power plant in last 5 years. This list should include brief project descriptions, PO copies, , the type and size of Bottom ash hopper/qty of refractory material used/method of refractory removal /application process in details.
  - 4.2.3.3 Work completion certificates for successfully executed projects for minimum 2 projects for refractory application of Ash plant.
  - 4.2.3.4 HSE Policy and past safety record-Fatal and LTIFR for last three years.
  - 4.2.3.5 Performance certificate from reputed clients

#### **4.2 FINANCIAL REQUIREMENT:**

Bidder / Tenderer should have minimum Average Annual Turn-over of Rs. 50 Lakhs (Indian Rupees Fifty Lakhs) during last 3 financial years i.e., FY 2021-22, FY 2022-23, FY 2023-24. (Attach Certificate from Chartered Accountant in this regard)

It may be noted that the above requirements are minimum qualification criteria. However, Tata Power reserves its right to further assess the capabilities of the parties and reserves its rights to further shortlist, accept or reject any party without assigning any reason.

#### **5. BID SECURITY / EMD:**

Interested parties to note that Bidder will be required to furnish a Bid Security along with their Bid, in the format prescribed in Bid Document **in the form of Bank Guarantee or Demand Draft or RTGS**, for an amount as defined in the covering page of this notice document. 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.

**Interested parties to note that Bid Security is not required with the EOI and it is required to be submitted with the Bid only during Bid Submission stage** once RFQ is released to the interested parties that have submitted a valid EOI.

#### **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 that submitted a valid EOI as per terms mentioned in this document.

Bidder to note that commercials for subject tender may be conducted through e-auction. Detailed bidding and auction process shall be detailed in the RFQ / tender document.