



**OWNER:  
THE TATA POWER COMPANY LIMITED**

**TITLE OF WORK TO BE AWARDED:  
SERVICES OF REMNANT LIFE ASSESSMENT (RLA) STUDY OF BOILER AT  
MUNDRA THERMAL POWER STATION (MTPS), GUJARAT**

**ENQUIRY REFERENCE NO.: 4100046709**

## NOTICE INVITING EXPRESSION OF INTEREST (EOI)

<b>Enquiry reference no.:</b> 4100046709
<b>Title of Work: Services of Remnant Life Assessment (RLA) study of Boiler at Tata Power, MTPS.</b>
<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: Mr. Ashish Desai Email: <a href="mailto:ashish.desai@tatapower.com">ashish.desai@tatapower.com</a> Contact Number: 9099006534 Copy of all communications shall be marked to (Cc): Mr. Joshi Aseemkumar Email: <a href="mailto:aseemkumar.joshi@tatapower.com">aseemkumar.joshi@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:

**Table1 – Tender Summary**

<b>Package Details</b>	<b>Tender Fee</b>	<b>Bid Security</b>
Services of Remnant Life Assessment (RLA) study of Boiler at Tata Power, MTPS.	INR 2000/- (INR Two Thousand Only). <i>To be submitted along with EOI.</i>	INR 50,000/- (INR Fifty Thousand only). <i>Bid Security to be submitted as a Bank Guarantee or through 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:**

The brief scope of work for Remnant Life Assessment (RLA) study of Boiler comprises below activities:

### **NON-DESTRUCTIVE TESTING:**

- Visual Inspection
- Liquid Penetrant Testing
- Magnetic Particle Testing
- Ultrasonic Testing
- Ultrasonic Thickness Measurement
- Ultrasonic Internal Oxide Scale Measurement
- Dimension Measurement (OD & Thickness Measurement)
- Ultrasonic Contact Impedance (UCI) Hardness Measurement
- In – Situ Metallography (Replica)
- Phased Array Ultrasonic Testing of Weld Joints.
- Stress Analysis
- FMEA
- Bidder shall carry out Static stress analysis and Dynamic/static equivalent stress analysis as per ASME B31.1 and submit the report to employer. Dynamic/static equivalent stress analysis (where required in contractor's opinion and/or as per international practice for completion of the RLA study) shall be carried out for MS, HRH, CRH, HP, LP Bypass & PRDS piping.

### **DESTRUCTIVE TESTING (SAMPLE TUBE)**

- Chemical Analysis of sample tubes.
- Mechanical Testing (TS/YS/% EL/Impact etc.)
- Hardness Measurement.
- Micro - Structure / Macro - Structure Examination.
- Internal Deposit Analysis of water wall tube sample.
- Accelerated Creep Rupture Testing of Super heater, Re-heater, and Divisional tube sample.

Activities:

- RLA as per IBR – 1950 Regulation 391A
- Tube Sampling Cutting as per IBR – 1950 Regulation 391A

Detailed Scope of work, technical details & BOQ for this Contract shall be provided in the Tender / RFQ document to all potential bidders submitting the valid EOI with tender fees within deadline of submission.

### 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 deadline specified below. Request for extension of EOI submission date will not be 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): [ashish.desai@tatapower.com](mailto:ashish.desai@tatapower.com)
- Must Mark a copy to (Cc): [aseemkumar.joshi@tatapower.com](mailto:aseemkumar.joshi@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 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>26<sup>th</sup> May 2025, COB</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 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.

- 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 REQUIREMENTS:

Interested parties to note that Bidder shall be required to fulfill the following bidder pre-qualification requirement / 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 and bidders not found meeting the pre-qualification requirements given below will be disqualified from the tender.

##### 4.1 TECHNICAL REQUIREMENT:

###### a) Technical Experience:

- The bidder must have successfully carried out RLA of at least **three (2) boilers of capacity 500/660 MW or above** in the last **five (5) years**.
- The scope of past RLA studies must include Non-Destructive Testing (NDT), metallurgical examination, and condition assessment of key pressure parts (e.g., water walls, superheaters, reheaters, headers, saporators, etc.).

###### b) Personnel Qualification:

- The bidder must have qualified personnel with relevant experience in RLA and boiler inspection.
- NDT personnel must hold valid **ASNT/ISNT Level II or Level III certifications** in applicable methods (VT, UT, RT, PT, MT, etc.).
- Metallurgists and mechanical engineers involved must have minimum **3 years of experience** in power plant boiler assessments.

###### c) Laboratory & Testing Facilities

- The bidder must have access to **NABL-accredited laboratories** or in-house facilities for conducting destructive and non-destructive tests, including:
  - Metallography (replica/microstructure analysis)
  - Hardness testing
  - Tensile and creep testing

###### d) Methodology & Understanding:

- The bidder shall submit a detailed **RLA methodology** in line with relevant standards (e.g., ASME, IBR, ), including:
  - Identification of critical components
  - Inspection techniques to be employed
  - Criteria for remaining life estimation
- Knowledge of supercritical boiler-specific damage mechanisms such as **creep, fatigue, oxidation, and thermal fatigue** must be demonstrated.

e) **Project Execution Capability:**

- The bidder should confirm availability of manpower, equipment, and resources to complete the RLA within the **planned shutdown period** as specified by the TPL.
- Details of equipment (e.g., borescopes, hardness testers, replication kits, etc.) and software used for analysis (e.g., FEM, creep-fatigue modeling) shall be provided.

f) **Client References & Past Performance**

- The bidder shall provide **completion certificates or work orders** from previous clients, clearly indicating:
  - Boiler capacity and type
  - Scope of RLA conducted
  - Year of execution
- At least two client references with contact details should be provided for verification.

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.

**4.2 FINANCIAL REQUIREMENT:**

Bidder / Tenderer should have an Average Annual Turn Over of not less than **INR 75 Lakhs (Indian Rupees Seventy-Five Lakhs)** during the last three financial years. **(Attach CA Certified P&L statement consisting of UDIN Number)**.

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/ Demand Draft/ 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.