



**OWNER:
THE TATA POWER COMPANY LIMITED**

TITLE OF WORK TO BE AWARDED:

**Three years Rate contract for HP/ LP Bypass valves spindle
refurbishment services (at vendor works) during Outage (5 nos.)**

at

MUNDRA THERMAL POWER STATION (MTPS), GUJARAT

ENQUIRY REFERENCE NO.: 4100059308

NOTICE INVITING EXPRESSION OF INTEREST (EOI)

Enquiry reference no.: 4100059308
Title of Work: Three years Rate contract for HP/ LP Bypass valves spindle refurbishment services (at vendor works) during Outage (5 nos.) at Tata Power - Mundra.
Type of Bidding: E-tendering (through Ariba online portal) / Two Part (Technical and Price bids under separate envelopes)
Contact Details: All communication including EOI submission shall be addressed to following officer/s: Name: Mr. Premkumar G Email: premkumar@tatapower.com / Ph: 9099006566 Copy of all communications shall be marked to (Cc): Name: Mr. Aseemkumar Joshi Email: aseemkumar.joshi@tatapower.com

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

Package Details	Tender Fee	Bid Security
Three years Rate contract for HP/ LP Bypass valves spindle refurbishment services (at vendor works) during Outage (5 nos.) at Tata Power - Mundra.	INR 2000/- (INR Two Thousand Only). <i>To be submitted along with EOI.</i>	INR 30,000/- (INR Thirty Thousand 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:

Procedure for HPBP PCV Spindle refurbishment

1. Visual inspection shall be carried out for seating area of the stem like erosion due to steam cut, damage due to long usage, crack, pitting, scoring marks in Gland Packing areas, & dent mar, seat having concavity/convexity due to lapping with different seat for long days, seat damaged due to profuse leakage.
2. Dimensional reports will be prepared before taking up the reconditioning process.
3. NDT like PMI, Hardness checking will be done during incoming conditions.
4. Taking necessary precautions like arrangement of special fixtures to avoid twist of spindle during welding.
5. Preheating & interpass temperature shall be carried out by suitable means.
6. Preheat of 150-200 deg C. and suitable welding electrode will be used.
7. Inter pass temp will be measured with thermo gun instrument. Inter pass temperature will be within 300 - 350 deg C.
8. Welding the eroded area using suitable welding electrode based on MoC of spindle. After welding covering the job with insulation.
9. PWHT: after reaching unloading temperature 300°C heating rate 55°C per hour to be maintained for reaching the temperature 750°C and then soaking should be 60 mins, later on cooling rate 80°C to be maintained up to 300°C.
10. The welded area to be machined as per the sample provided.
11. DP checks to be carried out to ensure the surface is defect free.
12. Surface Hardening Technique Chrome Carbide coating 400micron, (HVOF/ thermal spray hard facing). Same to be done at profile area, seating area and Gland area.
13. To avoid hardening of sections which are not repaired, mechanical masking will be used.
14. Checking running out, face out,(under-0.01) concentricity of spindle. Check for Bend (if any) and removal of bend by hydraulic pressing.
15. After bend removal, Cylindrical Grinding of Spindle (if required) to maintain concentricity throughout the spindle.
16. Polishing of spindle and proper packing shall be done with anti-corrosive preservatives.

Procedure for LPBP CV Spindle refurbishment

The procedure mentioned below to be followed:

1. Carryout pre-check of the surface to be weld overlaid by DP testing.
2. Machining of the surface to remove worn out areas.
3. Carry out DP testing to ensure the machined surface is defect free.
4. Before start of welding an initial preheat temperature of 240 deg C to be maintained. Maintaining Preheat temperature is very important. This temp. is to be monitored using thermal gun and then only welding should be started.
5. Weld build up in the face radius profile areas using E-9015 B9 (SFA 5.5) electrode maintaining the preheat of 240 deg C. interpass. Inter pass temperature 290-300° C to be maintained during welding.
6. Hydrogen diffusion to be done 300°C for two hours.
7. Next brought down to 100°C

8. Template is required for maintaining the profile.
9. The welded area to be machined as per the sample provided.
10. DP checks to be carried out to ensure the surface is defect free.
11. Carryout 2 layers of buffering over the areas where stellite is to be done by Inconel-625 (ENiCrMo3) in the major diameter and sealing taper area.
12. Allow the job to cool slowly.
13. Before stellite welding is carried out, preheat of 240 deg C to be maintained. Monitored by Thermal gun. Stellite welding to be carried out by E CoCr-E (SFA 5.13)
14. During Stellite welding preheat of 240 deg C to be maintained.
15. Immediately after welding is completed, the welded areas should undergo a PWHT: after reaching unloading temperature 300°C heating rate 100°C per hour to be maintained for reaching the temperature 750°C and then soaking should be 60 mins , later on cooling rate 100°C to be maintained up to 300°C. Cooling of the job should be done under the insulation blanket only.
16. Final machining and lapping of the job. Stellite weld shall be 2mm thick after machining and shall be measured and checked (weld fill up by satellite shall be around 4-5mm which will give a final thickness after machining of 2mm).
17. Carry out DP test as a final check.
18. Surface Hardening Technique Chrome Carbide coating 400micron, (HVOF/thermal spray hard facing). Same to be done at profile area, seating area and Gland area.
19. To avoid hardening of sections which are not repaired, masking will be used.
20. Grinding of coated surface to maintain required dimensions.
21. Checking of run out, face out, concentricity of spindle.
22. Check for Bend (if any).
23. Polishing of spindle and proper packing shall be done.

Note: Transportation will be in vendor's scope

Vendor has to ensure no damage of spindle and other spares, ensure proper packing

Vendor has to complete the job within 10 days

Vendor has to submit the repairing schedule/Bar chart

Vendor has to submit detailed procedure for approval along with offer

Vendor has to send inspection call for quality check.

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 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): premkumar@tatapower.com
 - Must Mark a copy to (Cc): 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 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:	27th January 2026, CoB

- 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 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:

- The bidder shall have proven experience in overhauling of High Pressure (HP) / Low Pressure (LP) Bypass steam valves, used in thermal power plants.
- The experience shall include systems having working pressure of 300 bar and above.
- The bidder shall possess adequate in-house facilities, including but not limited to:

- Specialized workshop facility for machining of such spindles.
- Specialized tools and fixtures
- IBR welder for Plug repair
- Welding equipment.
- Chrome carbide hardening facility
- Measuring and inspection instruments required for the job.
- Experience in handling critical application valves spindle such as turbine bypass valves and associated in thermal power plants shall be considered essential.
- The bidder shall have executed at least 1 similar overhauling/manufacturing job for HP/LP steam/water valve spindle of 300 bar and above pressure class during the last 5 years from the date of tender submission.
- The bidder shall submit a detailed list of similar jobs executed in the last five years with details of Name of client, Description of equipment, Size, pressure rating, and application
- Bidder / Tenderer should have ISO 9001 / ISO 14001 / ISO 45001 certification.

4.2 FINANCIAL REQUIREMENT:

Bidder / Tenderer should have minimum Average Annual Turn-over of Rs. 50 lakhs (Indian Rupees Fifty Lakhs only) during the last 3 financial years (**Attach copy of Balance sheet or P&L statement or Turnover Certificate certified by 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.