



OWNER:

THE TATA POWER COMPANY LIMITED

TITLE OF WORK TO BE AWARDED:

**Services for Cooling Water system, Condensate Extraction Pump & its
Vacuum Pump Overhaul**

at

Mundra Thermal Power Station (MTPS), Gujarat

ENQUIRY REFERENCE NO.: 2500018203

NOTICE INVITING EXPRESSION OF INTEREST (EOI)

Enquiry reference no.: 2500018203
Title of Work: Services for Cooling Water system, Condensate Extraction Pump & its Vacuum Pump Overhaul 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 Copy of all communications shall be marked to (Cc): Name: Mr. Anil Agarwal Email: anil.agarwal@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
Services for Cooling Water system, Condensate Extraction Pump & its Vacuum Pump Overhaul during Unit 10 & 50 Outage	INR 2000/- (INR Two Thousand Only). <i>To be submitted along with EOI.</i>	INR 80,000/- (INR Eighty 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:

2.1 CW system Overhauling consists of following Jobs (Qty: for 1 Unit)

1. Stop log gate installation, removal & cleaning (4 nos)
 - a. Stop log gate preparation for installation.
 - b. Support for underwater divers for cleaning of gate guide and installation of gate.
 - c. Dewatering pump installation and supervision of dewatering at sump for gate sealing.
 - d. Support for under water divers for removal of gate.
 - e. Cleaning of stop log gate and replacing of gate seals after removal of gate.
2. Coarse screen cleaning (Sump A&B)
 - a. Coarse screen removal and shifting for cleaning.
 - b. Cleaning of coarse screen.
 - c. Installation of coarse screen after cleaning.
 - d. Coarse screen guide cleaning
3. FRC dosing line cleaning and maintenance (PUMP A&B)
 - a. FRC dosing line inspection and dechocking.
4. Pump Suction Bin from gate to pump suction inspection and cleaning (Pump A&B).
 - a. Inspection of pump suction bin and removal barnacles, mucks, and disposal to ash dyke.
5. Travelling water screen system Overhauling (2 nos.)
 - a. Dismantling of TWS.
 - b. Inspection and repair of parts.
 - c. Replacement of damaged parts.
 - d. Cleaning the TWs area inside pit.
6. CW Pump Overhauling (1 nos)
 - a. Motor decoupling and removal.
 - b. Dismantling of pump.
 - c. Inspection & measurement of parts.
 - d. Replacement of damaged parts.
 - e. Pump assembly, motor installation and coupling.
7. CW Pump BCSW UPVC line replacement. (2 nos)
 - a. All UPVC pipeline along with supports replacement.
8. CW discharge valve inspection and maintenance. (2 nos)
 - a. Inspection and light pass test of CW discharge valve.
 - b. Removal and re installation of discharge valve.
9. CW discharge valve HPU overhauling (2 nos)
 - a. HPU accumulator bladder replacement.
 - b. Removal of oil and HPU cleaning.
 - c. All pipeline seals replacements.
 - d. Hydraulic hose replacement.
 - e. Inspection and repair of HPU parts.
 - f. Nitrogen charging.
10. CW pump discharge expansion bellow replacement (2nos)
 - a. Bellow flange bolts removal.
 - b. Removal and shifting expansion bellow
 - c. Installation of new expansion bellow
 - d. Bolt tightening
11. Conduit inspection including manhole door opening, dewatering and repair (Pump A & B)
 - a. Manhole doors opening

- b. Dewatering of conduit
 - c. Conduit inspection and repair.
 - d. Housekeeping and manhole door closing.
12. ARV and MIV inspection, repair & replacement (Pump A&B)
- a. All ARV removal and repair
 - b. Replacement of old MIVs with new one.
 - c. New ARV installation.
13. CW tap offline and valves inspection, repair, and maintenance.
- a. CW tap offline Dummying work.
 - b. CW tap offline removal and inspection.
 - c. Support for sending pipeline for rubber lining.
 - d. Inspection of tap offline MIVs. And repair.
 - e. Removal of old flange with new in tap offline.
 - f. Installation of tap offline and MIVs after repair.
14. Vacuum breaker and MIV inspection and repair.
15. Other Jobs
- a. CW pump gland rope replacement.
 - b. Cardon shaft greasing.
 - c. Damaged pipe supports replacement.
 - d. Support for Initial filling line sleeve insertion.
 - e. Support for gantry crane maintenance team for rope fall change and other works.

General Scope of work:

1. All truck, tailors, forklift, hydra, and crane required during overhaul will be in scope of the Bidder.
2. All consumables include general purpose welding rods, cutting wheels, grinding wheels, buffing wheels, WD 40, cotton waste etc are in the scope of vendor.
3. All tools / tackles include welding machine, lifting tools and tackles, grinding machine, drilling machine, hydraulic jacks, and pullers for executing job with proper certifications as per CGPL safety norms will be in the scope of the Bidder except special tools.
4. Special electrodes, filler wire, spares, gaskets are in scope of CGPL.
5. Scaffolding preparation and dismantling to carry out overhauling along with scaffolding materials are in the scope of vendor.
 - a. Scaffolding requirements (approx.)
 - Pump Cardon shaft (2 pumps)
 - Expansion bellow (2 pumps)
 - Pump suction pit (1 nos)
 - Tws (2 nos)
 - Manhole hard barricades
 - Conduit repair
 - Initial filling line installation
 - BCSW pipeline replacement
 - ARV replacement Infront of pumps
 - Pump casing and impeller assembly
 - Pump free rotation.
6. 24-volt transformer and lamb, torches, and gas analyser for inspection of conduit in the scope of vendor.

7. Transportation of spares and materials from store and return back after work in the scope of vendor.
8. Vendor must do housekeeping and return the scraps after the job.
9. Dewatering pumps for draining the conduit and stop log gate area are in the scope of vendor.
10. Vendors have to provide support for the CGPL provided special vendors such as glass flake coating, bolt torque tightening, painting, rubber coating, UT, MPT of pump spares, etc.
11. Vendors have to provide daily job status and detailed overhauling reports after completion of overhauling.
12. Nitrogen cylinder for filling of nitrogen in HPU accumulator in the scope of vendor.
13. Halogen lamp for sleeve heating is in the scope of vendor.
14. Vendor must provide support for EMD & IMD work.
15. Vendor must provide argon welder whenever required.

2.2 Scope of work for CEP complete overhauling

1. Complete overhauling of CEP to be carried out. Pump to be dismantled completely and reassembly back after assessing the defects and damage parts.
2. Motor removal and reinstallation after completion of work.
3. Disconnection/removal of pump associated tubing and piping.
4. Dismantling of pump components.
5. Removal and reinstallation of canister after inspection.
6. Cleaning pump components and assessing the defects.
7. Measurement of matching parts and replacement of matching parts if required.
8. Assembly of pump after assessing the defects and replacement of damage parts.
9. Pump base cleaning and pump alignment work.
10. Restoration of pump associated tubing and piping.
11. NDT (DP test) of thrust bearing and main bearing to be performed. Vendor must deploy skilled QA/QC technical to perform the NDT. Also, material and consumables required for NDT shall remain in vendor scope.
12. Hydro test of cooling coil to be carried out for cooling coil leakage checking.
13. Manpower, tools & tackles required for execution of job shall remain in vendor scope.
14. Vendor has to deploy the skilled manpower for execution job.
15. All lifting tools & tackles required for job will be vendor's scope. All lifting tools & tackles must be certified by authorized inspection agency. Vendor must carry all test certificates for lifting tools & tackles while execution of job. Certificates must be ready to display if asked for checking.
16. All electric tools, lighting and other equipment required for execution job shall remain in vendor scope. Also, Vendor has to get all electrical equipment certified by Tata power-EMD before putting into use. Power supply at single location near the equipment will be provided by CGPL, internal wiring with electrical protection (ELCB/MCB etc) will be done by the contractor. The power points are available at a distance of approx-50 meters from the Location. All extension cabling will be scope of the vendor.
17. Scaffold required for the job will be in vendor's scope. Manpower and scaffolding material remain vendor scope. Vendor has to deploy the skill person for scaffolding work. Scaffolding to be certified by CGPL safety engineer before putting into use.

18. If any Jugaad/tools is required to be fabricated for pump overhauling work, same to be fabricated by vendor. Required structural steel material will be provided by Tata power.
 19. Vendor must mobilize the resource within week after intimation.
 20. Job to be completed within 15 days. Vendor has to deploy manpower and other resources accordingly to complete job withing given timeline of 15 days.
 21. Mobilization, food, accommodation, transportation and other expenses will be in scope of vendor.
 22. Vendor has to strictly adhere to Tata power safety norms and follow gate pass procedure of Tata Power.
 23. Vendor has to take care of his equipment, M/S Tata power will not be responsible, and no compensation will be paid.
 24. Vendor shall depute a dedicated supervisor and safety engineer at site with working mobile for all types of communication.
 25. Shifting of Spare from CGPL store will be in Contractor Scope.
 26. Housekeeping of the area after completion of job shall remain in contractor's scope.
 27. Attending of water/steam leakage after charging, if any.
 28. Vendor has to ensure all statutory compliance are in place before commencement of work.
 29. All general consumables required (Emery paper, rust Olene, Diesel, Grinding /cutting wheel, hex saw blade, cotton waste, lint free cleaning cloth etc.) will be in contractors' scope.
- Please note that pump overhauling to be carried out in two phase. 01 no of CEP will be overhauled in Unit 10 outage and 01 no CEP will be overhauled in Unit 50 outage. Unit outage date will be communicated to vendor by Tata power.
 - Please note that dedicated manpower team to be deployed for CEP overhauling work.

Equipment Details

- Equipment Name: CEP
- Model: WKTA 350
- MAKE: KSB
- Pump detail drawing attached.

Tata Power Scope

1. Hydra & truck required for material shifting will be arranged by Tata Power.
2. Electric supply will be provided by tata power.
3. Pump's non-repairable spares and pump consumables like O-ring, gasket will be provided by tata power.
4. Scaffolding required for job will be provided by tata power.

2.3 Scope of work for Vacuum pump overhauling

1. Motor removal and reinstallation after completion of work.
2. Disconnection/removal of pump associated tubing and piping.
3. Removal of pump and pump gearbox from position and shift to designated to workplace for overhauling work.

4. Pump and it's gearbox dismantling, inspection, cleaning of component and assessing the defects.
5. Measurement of matching parts and replacement of matching parts if required.
6. Assembly of pump and it/s gearbox after assessing the defects and replacement of damage parts.
7. Shifting and re-installation of pump and it's gearbox to original position after assembly.
8. Restoration of pump associated tubing and piping.
9. Pump base cleaning and pump alignment work.
10. Vacuum pump cooler inspection & cleaning. Cooler hydro test to be carried out for leak detection.
11. Manpower, tools & tackles required for execution of job shall remain in vendor scope.
12. Vendor must deploy the skilled manpower for execution job.
13. All lifting tools & tackles required for the job will be vendor's scope. All lifting tools & tackles must be certified by an authorized inspection agency. Vendor must carry all test certificates for lifting tools & tackles while execution of job. Certificates must be ready to display if asked for checking.
14. All electric tools, lighting and other equipment required for execution job shall remain in vendor scope. Also, Vendor must get all electrical equipment certified by Tata Power-EMD before putting into use. Power supply at single location near the equipment will be provided by Tata power, internal wiring with electrical protection (ELCB/MCB etc.) will be done by the contractor. The power points are available at approx-50 meters from the Location. All extension cabling will be scope of the vendor.
15. Scaffold required for the job will be in vendor's scope. Manpower and scaffolding material remain vendor scope. Vendor has to deploy the skilled person for scaffolding work. Scaffolding to be certified by Tata Power safety engineer before putting into use.
16. If any Jugaad/tools is required to be fabricated for pump/gearbox/cooler overhauling work, same to be fabricated by vendor. Required structural steel material will be provided by Tata Power.
17. Vendor must mobilize the resource within week after intimation.
18. Job to be completed within 10 days. Vendor must deploy manpower and other resources accordingly to complete job withing given timeline of 10 days.
19. Mobilization, food, accommodation, transportation and other expenses will be in scope of vendor.
20. Vendor has to strictly adhere to Tata power safety norms.
21. Vendor has to take care of his equipment, MTPS will not be responsible, and no compensation will be paid.
22. Vendor shall depute a dedicated supervisor and safety engineer at site with working mobile for all types of communication.
23. Shifting of Spare from Tata power store will be in contractor scope.
24. Housekeeping of the area after completion of job shall remain in contractor's scope.
25. Attending of water/steam leakage after charging, if any.
26. Vendor has to ensure all statutory compliance are in place before commencement of work.
27. All general consumables required (Emery paper, rust Olene, Diesel, Grinding /cutting wheel, hex saw blade, cotton waste, lint free cleaning cloth etc.) will be in contractors' scope.

- Please note that pump overhauling to be carried out in two phase. 01 no of Vacuum pump will be overhauled in Unit#10 outage and 01 no Vacuum pump will be overhauled in Unit#50 outage. Unit outage date will be communicated to vendor by Tata Power.
- Please note that dedicated manpower team to be deployed for Vacuum pump overhauling.

Equipment Details

- Name: Vacuum pump
- Model: AT – 3006,
- MAKE: NASH
- Detail drawing of pump attached.

Tata Power Scope

1. Hydra & truck required for material shifting will be arranged by Tata Power.
2. Electric supply will be provided by tata power.
3. Pump's non-repairable spares and pump consumables like O-ring, gasket will be provided by tata power.
4. Scaffolding required for job will be provided by tata power.

Safety requirement for job

1. Vendor has to follow Tata power Safety rules and regulation. All PPE's required for execution of job shall remain in vendor scope. Vendor has to use PPE's like Safety belt, Safety shoes, safety helmet, hand gloves, reflective jacket.
2. Vendor has to follow Tata Power Gate pass procedure.
3. All lifting tools & tackles must be certified by authorized inspection agency. Vendor must carry all test certificates for lifting tools & tackles while execution of job. Certificates must be ready to display if asked for checking.
4. Vendor has to get all electrical equipment certified by Tata Power -EMD before putting into use. Power supply at single location near the equipment will be provided by Tata Power, internal wiring with electrical protection (ELCB/MCB etc) will be done by the contractor. The power points are available at a distance of approx-50 meters from the Location. All extension cabling will be scope of the vendor.
5. Vendor has to deploy the skill person for scaffolding work. Scaffolding to be certified by CGPL safety engineer before putting into use. Scaffolding material like pipe, clamp to be inspected before putting into use. Any damage material shall not be used in scaffolding.
6. Vendor has to provide the barricading around the working area before starting of job.
7. Vendor has to deploy skilled and fit person for execution job.
8. "No supervision, no work". Vendor has to deploy supervisor & safety engineer to supervise the job at site.

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): premkumar@tatapower.com
- Must Mark a copy to (Cc): 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:	6th July 2024, 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:

- 4.1.1 The Bidder must have experience in overhauling of Cooling Water System, CEP & Vacuum pump in Power plant of capacity 660 MW & above (**Attach Certificates / related supporting documents**)
- 4.1.2 The Bidder must have experience in overhauling of Concrete volute pump, travelling water screen, removal, and installation of big butterfly valve (Upto 2800 MM) (**Attach Certificates / related supporting documents**)
- 4.1.3 Bidder should provide a reference of minimum of two orders for successful completion of similar services in the last 2 years in any similar industry (**Attach Certificate of Experience and Satisfactory Completion of work awarded from concerned Establishments / Companies**)
- 4.1.4 Bidder / Tenderer should preferably certify with ISO 9001 / ISO 14001 / ISO 45001 or must give an undertaking for their willingness to obtain the same within 2 months of qualification for the work.
- 4.1.5 Vendors/ Contractor shall always comply with and ensure that their workforce comply with all site safety rules and regulations. Specifically, with applicable provisions of the Site Safety Management Plan and all statutory safety rules and regulations.

4.2 FINANCIAL REQUIREMENT:

Bidder / Tenderer should have minimum Average Annual Turn-over of Rs. 1 Crore (Indian Rupees One Crore) 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.