



OWNER:

MAITHON POWER LIMITED

PROJECT MANAGER:

MAITHON POWER LIMITED

PROJECT:

**Procurement analyser of Chloride & Consumables for Chloride analyser at swas area,
MAITHON POWER LIMITED, JHARKHAND**

MAITHON POWER LIMITED (MPL), JHARKHAND - INDIA

TENDER REF: (MPL/IMD/DB/2025-26/1500018088)

**Procurement analyser of Chloride & Consumables for Chloride analyser at swas area in Plant
MPL, MAITHON POWER LIMITED, JHARKHAND**

EXPRESSION OF INTEREST (EOI)

**Procurement analyser of Chloride & Consumables for Chloride analyser at swas area in Plant
MPL, MAITHON POWER LIMITED, JHARKHAND**

Enquiry reference no.: - MPL/IMD/DB/2025-26/ 1500018088)
Procurement analyser of Chloride & Consumables for Chloride analyser at swas area in Plant MPL at 2 X 525 MW Maithon Power Limited (MPL), Jharkhand – India
Type of Bidding: E-tendering / Two Part
Contact Details: Ms. Debarati Bhattacharyya-Contracts, Mobile-9234000596, Email Id:- debarati.b@tatapower.com Ms. Jayashree Choudhury -Head Contracts & Materials, Mobile: 9234550658, Email Id:- choudhuryj@tatapower.com Maithon Power Ltd., (A Joint Venture Company of Tata Power & DVC), Works: Village Dambhui, P.O. Barbendia, P.S. Nirsa, District Dhanbad 828 205, Jharkhand, India

Maithon Power Limited (“Owner”) invites Expression of Interest (EOI) from interested parties for the Two-Part e-Tendering Process of following Relevant Package:

Plant Details	Description	Tender Fee	Bid Security (EMD)
2X525 MW Maithon Power Limited (MPL), Dhanbad, Jharkhand	Procurement analyser of Chloride & Consumables for Chloride analyser at swas area in Plant MPL, MAITHON POWER LIMITED, JHARKHAND	INR 2,000/- Please details submit in attached tender fee link as stated below, https://forms.office.com/r/XDJ10yJw3b	INR 35,000/-

INTRODUCTION:

Maithon Power Limited (MPL) is a 74:26 joint venture of The Tata Power Company Limited and DVC (Damodar Valley Corporation). MPL owns and operates 2x525 MW capacity, Indian coal based thermal power generation plant based on pulverized coal-based boiler technology. The generating plant is in Maithon near the city of Dhanbad in the state of Jharkhand in India. A brief overview of Owner and Site is given below:

Site Name	2 X 525 MW Maithon Thermal Power Plant
Owner	Maithon Power Limited
Project Manager	Maithon Power Limited
Site Location	Maithon, Dhanbad district, Jharkhand, India, on the right bank of the river Barakar in the Nirsa-cum-Chirkunda C.D. Block of Dhanbad district, Jharkhand at a road distance of about 7.5 km from Nirsa, North of G.T. Road (N.H.2) and 10 km north of Mugma railway station on the Howrah Mughalsarai Grand Chord line of the Eastern Railway. ➤ Latitude: 23 deg 49' - 38" N ➤ Longitude: 86 deg 45' - 41" E
Elevation Above Mean Sea Level	156 m to 177 m above Mean Sea Level
Access to Site	➤ Road: About 7.5 km north of G.T. Road Nearest town is Nirsa ➤ Rail: Nearest Railway station – Mugma railway station.

1. Brief SCOPE OF WORK(Details scope is publishing website):

Procurement analyser of Chloride & Consumables for Chloride analyser at swas area :

Sl. No.	Mat. Code	Material Description	Qty	UOM
1	1000021513	ANALYSER,CHLORIDE ANALYSER, DRUM WTR,	1	SET
2	3000098059	Consumables for Chloride analyser	1	EA

- 1) Specification, size, and quantity are given above table.
- 2) Material that has to be supplied by the supplier should be designed typically for checking & analysing low level chloride present in boiler drum water of high pressure & temperature in thermal power plants of unit capacity 525 MW.
- 3) Credentials of supply of same chloride analyser to NTPC/Tata power/Any Other state board reputed Organizations.
- 4) The chloride analyser should have Detection range of 5 ppb to 10 ppm, low level chloride electrode with long lasting response and performance.
- 5) Reagent solution should be supplied for one year operation of analyser i.100PPM STANDARD SOLUTION (QTY: 1 NOS) ii. FORMIC ACID REAGENT AND DIFFUSION TUBING SET (QTY: 6 NOS) iii. REFERENCE ELECTRODE FILLING SOLUTION-(QTY 5*60ml BOTTLES) Dynamic calibrator # 1no.
- 6) Accurate and precise measurements in the range of 5 ppb to 10 ppm for chloride.
- 7) Extra Requirement for analyser should be -
 - a. Drain Cup-1 piece b. 1/2-inch Male - Female connector c. Rotameter range 0-30 LPM d. Needle Valve-SS316- 5 pc e. Drain Pipe- 2Mtr
 - f. Filter/ Regulator g. Measuring electrode with O-ring- 1set h. Reagent Tube assembly- 2 pc
 - i. Reagent-1 year j. spare for 2 years minimum
- 8) Response time should be 90% of final reading within 2 minutes of injecting a standard solution.
- 9) Consumable materials for Chloride analyser like Sample Inlet Filter, Inlet filters, Diffusion Tubing Assembly and O-rings, Reference Electrode: Chloride Reference Electrode and its reference solution, Chloride Sensing Electrode, Restrictor tube assembly, Inlet valve assembly, Bypass/needle valve assembly, Regulator assembly, Flow meter assembly.
- 10) Temperature compensation should be automatic.
- 11) Millivolt measurement range should be +/-1999.9 mV, with resolution of 0.1 millivolt.
- 12) Temperature measurement range should be from -10 to 120 degree c with ATC probe of 30k Thermistor.
- 13) Sample conditions temperature should be 5 to 45 degree c with inlet pressure of 8 to 100 psig.
- 14) Flow rate to be set 40 MI/MIN nominal set by pressure regulator.
- 15) Display features type should be Custom backlit LCD with 54*76 mm size, with text display Scrolling marquee for English language instructions on setup, calibration and diagnostics.
- 16) Dynamic Dilution Calibration should be available with 3 point dynamic calibration, offline calibration should be present with 1 point offline calibration.
- 17) Number of Analog Outputs should be two, one dedicated to chloride, one dedicated to temperature and shared ground with selection of 4-20 mA.
- 18) Maximum Load with 500 ohm or 10 v.
- 19) Number of Relay Outputs should be 3 with Maximum Relay Load 250 VAC/5 A, 30 VDC/5 A, resistive load only.
- 20) Software features should include Calibration of Sensor response, drift, E0, slope, temperature.
- 21) Physical Size of Analyser 65 x 45 x 27 cm (26 x 17 x 11 inch). Fits on 1818A0 panel mounting footprint. (Dimensions can be approximate, based on space available in our SWAS room).
- 22) Power Input 85 to 132 VAC; 200 mA or 170 to 264 VAC; 100 mA 50 to 60 Hz.
- 23) Environment operating conditions Waterproof Enclosure of IP66 and NEMA 4X.
- 24) Suppliers shall submit a valid ISO 9001 certificate or Quality Assurance Manual or Written down procedure
- 25) Visual inspection, flatterring test & dimension control certificate must submitted.
- 26) The products are warranted to be free from defects in material and workmanship for a period of 12 months from date of installation or 18 months from date of shipment, whichever is earlier, when used under normal operating conditions and in accordance with the operating limitations and maintenance procedures given in the user guide.
- 27) In the event of failure within the warranty period, the manufacturer or its authorized dealer will, at the option of manufacturer, repair or replace the product nonconforming to the above warranty or will refund the purchase price of the product.

Above is only brief description of technical Specification including Detailed Terms & Conditions shall be shared during RFQ/ Bidding stage to the interested bidder submitting valid EOI, which will specify detailed scope of work and terms & conditions of proposed tender/contract.

2. TENDER FEE & TIMELINES:

- a) Interested parties meeting the pre-qualification criteria specified elsewhere in this document can request for Bid Document and participate in the bidding process by submitting their Expression of Interest (EOI) and credentials along with the Tender Fee **not later than 06th May 2025**. Request for Bid Document/EOI will be not be entertained EOIs submitted beyond this deadline may be liable for rejection.
- b) Non-Refundable Tender Fee, as indicated in table above, in the form of direct deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference number

Details for payment of Tender Fee:	
Bank details for submitting Tender fees through bank transfer / NEFT:	Beneficiary Name – Maithon power Limited Bank Name – State bank of India Branch Name – CAG, Mumbai (09995) Address – Neville House, 23 J. N. Heredia Marg, Ballard Estate, Mumbai-400001 Branch Code –09995 Account No – 00000031828734113 Account type – CC IFSC Code – SBIN0009995
Deadline for tender fee payment and submission of EOI:	06th May 2025

It may be please be noted that all future correspondence will be strictly done only with Interested Bidders who have done the above steps in time with Authorized Person only through MPL E-Tender System.

C) 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.

3. BIDDER PRE-QUALIFICATION CRITERIA:

Interested parties to note that Bidder shall be required to fulfill the following conditions and submit relevant supporting documents for each of the following criteria along with the Bid. Bidder must 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:

Bidder shall meet the following technical qualification requirement:

- a) Bidder shall be having experience of supply of Chloride Analyser to NTPC/Tata power/Any Other state Govt./Other reputed organizations.
- b) Vendor to produce minimum two Purchase Orders for Supply of Chloride Analyser for verification.
- c) Material from Australia, US, Japan, Singapore & India only shall be acceptable.

4.2 FINANCIAL REQUIREMENT:

- a. The average annual turnover of the bidder shall not be less than Rs. 70 Lacs (Rupees one crores only) for the preceding three financial years (2022-23, 2023-24, 2023-24). To this effect the bidder shall submit audited financial statements for the last three financial years.
- b. Audited Balance Sheet including Profit & Loss statement for the previous three completed financial years (2022-23, 2023-24, 2024-25) reckoned from the date of application. In case the audited documents are not ready / available, then certified copy by a registered practicing Chartered Accountant may be submitted.

4.3 SAFETY REQUIREMENT:

Bidder should preferably have ISO 9001 / ISO 14001 / ISO 45001 certification or must give an undertaking for its willingness to obtain the same within 2 months of qualification for the work.

4.4 SUPPORTING DOCUMENTS (to be submitted with Technical Bid):

- a) Valid ISO Certificates True Copy
- b) PO Copy, Completion Certificate from the concerned client in support of successful execution of jobs /reference projects to be submitted.
- c) Experience details of past 03 years should be submitted as per the following table format:

1	2	3	4	5	6
Sl. No.	Client details/ Power plant details	Order No. Date & Year	Contract Tenure	Order value	Details of scope of work

5. BID SECURITY/EMD(To be submitted along with RFQ and not with EOI):

Interested parties to note that Bidder is required to furnish a Bid Security along with their Bid (only during Bid Submission stage), as a Bank Guarantee (in the format prescribed in Bid Document) or as NEFT/RTGS/DD for an amount of INR 35,000/- (Indian Rupees thirty three thousand Only). 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.