



**OWNER:
MAITHON POWER LIMITED**

**PROJECT MANAGER:
MAITHON POWER LIMITED**

**PROJECT NAME:
COAL MILL GRINDING ELEMENT**

MAITHON POWER LIMITED (MPL), JHARKHAND - INDIA

**ENQUIRY REFERENCE NO:
MPL/MMD/RKS/2023-24/1000061313**

EXPRESSION OF INTEREST (EOI)

**PROCUREMENT OF COAL MILL GRINDING ROLL & BULL RING SEGMENT FOR COAL MILL XRP 1003 AT 525 x
2 MW THERMAL POWER PLANT.**

Enquiry reference no.: - MPL/MMD/RKS/2023-24/1000061313

Name of Package: PROCUREMENT OF COAL MILL GRINDING ROLL & BULL RING SEGMENT FOR COAL MILL XRP 1003 AT 525 x 2 MW THERMAL POWER PLANT.

Type of Bidding: E-tendering / Two Part

Contact Details:

Mr. Ravi Sharma - Lead Associate-Contracts, Mobile-7739222261, Email Id: - ravisharma@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. Barbandia, 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:

| Description | Bid Security (EMD) | Tender Fee | Est. Package Value |
|----------------------------------------------------------------------------------|---------------------|------------|--------------------|
| PROCUREMENT OF Wear Out Grinding Roll & Bullring Element of Coal Milling System. | 1% of package value | ₹ 2,000/- | ₹180.00 Lacs |

1. 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. <ul style="list-style-type: none">➤ 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 | <ul style="list-style-type: none">➤ Road: About 7.5 km north of G.T. Road Nearest town is Nirsa➤ Rail: Nearest Railway station – Mugma railway station. |

2. Specification of the Material:

MATERIALS REQUIREMENT:

| SL No | Material Code | Material Description | UoM | Quantity | Remarks |
|-------|---------------|-----------------------------------------|-----|----------|----------------------------------|
| 1 | 2000011530 | GRINDING ROLL 50" FOR XRP1003 BOWL MILL | EA | 18 | 1 EA=1 No Grinding Roll |
| 2 | 2000011531 | BULL RING SEGMENT FOR XRP1003 BOWL MILL | EA | 8 | 1 EA=1 set of Bull Ring Segments |

1. Offered **Coal Mill grinding element** must have guaranteed service life of minimum **10000 Running hours** (without repair or rebuild of the wear area) without deviation of performance parameter till the end of guaranteed service life.

Performance Parameter as follows:

- ✓ Maximum wear of 80 mm without collar formation till guaranteed life.
 - ✓ Consistent Coal Mill throughput ($\pm 5\%$).
 - ✓ Mill reject must be within 0.5 % of mill feed with the CV of = 1000 kcal / kg or less.
 - ✓ Coal Mill Fineness must be minimum 75% passing through 200 BS mesh and retention in 50 mesh must be less than 0.1 %.
 - ✓ At full load of Coal Mill i.e., at 64 TPH, Maximum bowl DP must be less than 250 mmwc with maximum Mix air pressure of 600 mmwc and current must less than 55 Amps.
2. In case of premature failure to guaranteed terms on performance parameter MPL reserves the right short closure of purchase order and vendor has to replace the grinding elements on free of cost.
 3. Vendors to note that at present MPL is using the Grinding elements as per the following details:
 - a) Rolls and Bull ring segments are manufactured using proven casting process.
 - b) The Inserts of the rolls are made up of hard metal matrix composite comprising of high chrome and ceramic, the high chrome iron having following Chemical composition:

Grinding Roll:

Chemical Composition of Insert: C% - 2.30-3.40, Mn%- 0.50-1.50, Si%- 1.00 Max, S% - 0.100 Max, P% - 0.100 Max, Cr%- 18.00-29.00, Ni% - 1.50 Max, Mo%- 2.50 Max
Chemical Composition of Inserted Roll Casting (S.G. IRON): C% - 3.20-3.50, Mn%- 0.50 Max, Si%- 2.50-3.00
Hardness: 59-66 HRC.

Bull Ring Segment:

Chemical Analysis: C% - 2.30-3.40, Mn%- 0.50-1.50, Cr%- 18.00-29.00, Ni% - 1.50 Max, Si%- 1.00 Max, Mo%- 2.50 Max, S% - 0.100 Max, P% - 0.100 Max.
Hardness: 59-66 HRC.

Any bidder following the above manufacturing process will be qualified and considered However, the above Chemical Composition/Process/ technology do not absolve the supplier from performance guarantee responsibility.

4. Bidder shall have the sufficient infrastructure for the following after sales services i.e Performance monitoring w.r.t wear life, output, fineness, coal characteristic etc. In case of any performance issue, Supplier shall depute his representative within a period of one week from the notice given by MPL.
5. The overall dimension of the grinding roll and bull ring segments shall be as per OEM drawing. The bullring segments shall be assembled in Check Bowl and After assembling of the segments, final gap should not be more than 20 mm. The drawing for the check Bowl and the arrangement for segment assembly on Check Bowl shall be provided to MPL along with material. (2 No Wear measurement gauge shall be supplied by the supplier at no extra charge to MPL along with the Material)

Following shall be the pre-qualification requirement (PQR) for the bidders. Bidders who meet all the following PQR's shall only be considered for price bid evaluation.

TECHNICAL CRITERIA:

The bidder shall satisfy the following minimum qualifying requirements by submitting documentary evidence along with the technical offer, failing which the offers shall be summarily rejected.

1. Bidder should have manufactured and supplied Grinding rolls and matching bull ring segment for 210 MW or higher size pulverized coal fired power generating units (Preferably XRP-1003 or Similar) to at least three different sites of NTPC, BHEL, DVC or any reputed thermal power generating stations like Jindal, Adani, Tata Power, Reliance, Bajaj etc. Bidder must furnish evidence of supply and Submit the PO copies as per above details.
2. The Bidder must be a prime manufacturer of intended material and should have successful performance with repeated purchase orders for Coal Mill grinding element (Both Grinding Roll & Bull ring Segment as a set) of XRP-1003 or above capacity to any single generating plant of NTPC, DVC or any reputed thermal power generating stations like Jindal, Adani, Tata Power, Reliance, Bajaj etc. The Bidder shall furnish evidence of purchase order against the material.
3. Bidder whose past performance is not satisfactory or fail to establish performance earlier in MPL or other division of Tata Power will be rejected and will not be considered in bidding process.

FINANCIAL CRITERIA:

The average annual turnover of the bidder shall not be less than Rs. 1.0 Crores (Rupees one crores only) for the preceding three financial years (2020-21, 2021-22, 2022-23). To this effect the bidder shall submit audited financial statements for the last three financial years.

DOCUMENTS REQUIRED WITH BID FOR TECHNICAL/FINANCIAL CRITERIA

- 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 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 | Brief details of scope of work |
| | | | | | |

- d) Audited Balance Sheet and Profit & Loss Statement for last the previous three completed financial years 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.

3. 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 of Rs. 2,000** to be submit **not later than 24th Jan 2024**. Request for Bid Document/EOI will be entertained beyond this deadline.
- b) Interested parties to submit Non-Refundable Tender Fee (contact details mentioned above), as indicated in the table above, in the form of direct deposit in the following bank account along with a covering letter duly stamped and signed by an authorized signatory clearly indicating the Tender Reference number, your EOI to participate in the tendering process and indicating name of authorized person, contact number / e-mail id (mandatory) on Bidder's letterhead. It is mandatory to mention Tender Reference no. in the said letter.
- c) 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**.

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

- d) Bidders to also submit duly signed and stamped letter indicating name of authorized person, contact number and e-mail id (mandatory) on Bidder's letterhead. It is mandatory to mention Tender Reference no. in the said letter.

Note: - Once the above-mentioned documents are received, detailed RFQ shall be issued through our e-tender system.

Interested Bidder has to get in touch with contact persons mentioned above at:- 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.

It may 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.

- e) Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal only to the parties whose EOI meeting above mentioned requirements are received by the deadline mentioned above.

4. BID SECURITY: (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 **1,80,000/- (Indian Rupees One Lakhs Eighty 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.

Bidder shall be required to fulfill the following conditions and submit relevant supporting documents for each of the following criteria along with the Bid.

5. 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.