

ABRIDGED INVITATION FOR BIDS



**THDC INDIA LIMITED**

REQUEST FOR PROPOSALS  
FOR  
ASSOCIATING IN COMMISSIONING  
&  
COMPREHENSIVE OPERATION AND MAINTENANCE CONTRACT OF COAL BASED  
SUPERCRITICAL  
KHURJA THERMAL POWER PROJECT (2x660MW)  
AT  
VILLAGE & POST DASHERA KHERLI, TEHSIL KHURJA,  
DIST BULANDSHAHR, UTTAR PRADESH-203131, INDIA  
INVITATION FOR BIDS (IFB)/NOTICE INVITING TENDERS (NIT)

*(Domestic Competitive Bidding)*

GeM Bid No.: GEM/2024/B/4485351 dated 15.01.2024

RFP Document no.: THDCIL/NCR/CC-465

Name of Work: REQUEST FOR PROPOSALS FOR ASSOCIATING IN COMMISSIONING & COMPREHENSIVE OPERATION AND MAINTENANCE CONTRACT OF COAL BASED SUPERCRITICAL KHURJA THERMAL POWER PROJECT (2x660MW)

Type of Bidding: E-tendering/ Single Stage Two Envelope followed by e-Reverse Auction (e-RA), on GeM Portal

RFP document Download: From 15.01.2024 to 15.02.2024 upto 15:00 hrs (IST)

Pre-bid Meeting: 30.01.2024 at 11:00 AM online through MST Platform for which the link shall be shared separately.

Receipt of QR & Techno-Commercial and Price Bids: 15.02.2024 upto 15:00 hrs (IST)

Date and Time of opening of QR & Techno-Commercial Bids: 15.02.2024 upto 15:30 hrs (IST)

Date and Time of opening of Price Bids: Shall be intimated separately

Contact Details: **HOD (Corporate Contracts), THDC India Ltd., NCR office, Plot No. 20, Sector-14, Kaushambi, Ghaziabad - 201010 (UP), India**

Tel: 0120-2816721/6711

Email: [corpcontract@thdc.co.in](mailto:corpcontract@thdc.co.in)

Website: [https:// www.gem.gov.in](https://www.gem.gov.in) or [www.thdc.co.in](http://www.thdc.co.in)

**Registered Office:** BHAGIRATHI BHAWAN, (TOP TERRACE), BHAGIRATHIPURAM, TEHRI GARHWAL-249001,  
CIN: U45203UR1988GOI009822

**REQUEST FOR PROPOSALS**  
**FOR**  
**SELECTION OF AN AGENCY ASSOCIATING IN COMMISSIONING**  
**&**  
**COMPREHENSIVE OPERATION AND MAINTENANCE CONTRACT OF COAL**  
**BASED SUPERCRITICAL**  
**KHURJA THERMAL POWER PROJECT (2x660MW)**  
**AT**  
**VILLAGE & POST DASHERA KHERLI, TEHSIL KHURJA,**  
**DIST BULANDSHAHR, UTTAR PRADESH-203131, INDIA**  
**(Domestic Competitive Bidding)**

**RFP Document No.: THDCIL/NCR/CC-465**

**1.0** THDC India Limited (THDCIL) invites online bids from eligible bidders on Single Stage Two Envelope bidding basis [i.e. Envelope-I (QR & Techno-Commercial) Bid and Envelope-II (Price) Bid] followed by e-RA, on GeM Portal for aforesaid work as per the brief Scope of Work mentioned hereinafter.

**2.0 BRIEF SCOPE OF WORK**

The main scope of work for the O&M Operator is to Support Owner in associating in commissioning activities, operating plant for trial run, unit synchronisation, conducting PG test and takeover of the plant after successful completion of PG test for both units, stabilisation of the units after COD, Operate, Maintain and repair the Facility and all its equipment for power generation in accordance with the recommendations of the Supplier(s), original equipment manufacturer(s) (OEM), Off-taker instructions and prudent utility practices of power projects so that the facility runs in an economical and efficient manner without adversely affecting the life of the Facility. O&M Operator shall optimize the long term profitability of the Facility (keeping in view the norms of regulator) by Maximizing Availability, PLF and minimizing the Station Heat Rate and Auxiliary Energy Consumption, minimizing the incidence, severity and duration of forced outages and keeping the Facility in good order and protecting it from damage, premature deterioration or malfunction. The detailed scope of work is listed below and is only indicative. However, any works related to O&M of the facility in efficient and effective manner for delivering the rated capacity of 1320 MW at outlet feeder of Switchyard shall be under the scope of O&M operator.

3.0 Detailed specification, scope of work and terms & conditions are given in the RFP Documents, which are available at GeM Portal (website- <http://gem.gov.in>) and as per the following schedule:

<b>Tender No.</b>	<b>THDCIL/NCR/CC-465</b>
<b>Name of Work</b>	Request for Proposals for selection of an Agency for associating in Commissioning & Comprehensive Operation and Maintenance Contract of Coal Based Supercritical Khurja Thermal Power Project (2x660MW)
<b>Estimated cost (including GST)</b>	INR 503.06 Crs.
<b>Earnest Money Deposit (EMD)</b>	INR 5.03 Crs. (Including GST)
<b>Documents Download Dates &amp; Timings</b>	From 15.01.2024 to 15.02.2024 up to 15:00 hrs (IST)
<b>Pre Bid Conference date &amp; time</b>	30.01.2024 at 11:00 hrs (IST)
<b>Bid receipt date &amp; time</b>	Up to 15:00 hrs (IST) on 15.02.2024
<b>Date &amp; Time for opening of Envelope-I (QR &amp; Techno-Commercial) bid</b>	15.02.2024 at 15:30Hrs.(IST)
<b>Date &amp; Time for opening of Envelope-II (Price) Bid</b>	Shall be intimated to all successful bidders after opening of Envelope-I (QR & Techno-Commercial Bid).
<b>Cost of Bidding Documents in INR</b>	NIL
<b>Validity of Bid</b>	180 days from deadline of submission of bid
<b>Currency of Bid</b>	Indian Rupees (INR)
<b>Completion period</b>	3 years & 09 months from 07 <sup>th</sup> day of issue of LOA/Purchase Order

#### 4.0 Qualifying Requirements for Bidders (QR):

In addition to the requirements stipulated in section ITB (Instruction to Bidder), the following shall also apply:

##### 4.1 TECHNICAL QUALIFICATION REQUIREMENT

4.1.1 Bidder or either one of its promoter (in case the bidder is a JV company) should have experience of successfully operating and maintaining the coal fired supercritical thermal power station of 660 MW or above in Indian conditions for a period of one year during the last seven years as on date of issue of NIT published on e-portal and should possess the necessary technical expertise, experience, and skilled manpower to efficiently handle the complexities of super critical thermal power station operations and they should have rendered:-

- (a) Operation and Maintenance services for Steam Generator (Boiler) & its Auxiliaries of the Power Station of supercritical unit capacity of 660 MW or above.
- (b) Operation and Maintenance services for Steam Turbine & its Auxiliaries of

the Power station of supercritical unit capacity of 660 MW or above, including the control room operation.

AND

4.1.2 Bidder or either one of its promoter (in case the bidder is a JV company) should have experience of successful Operation and Maintenance of five Balance of Plants (BOP) Systems for a period of one year during the last seven years as on date of issue of NIT published on e-portal as under.

**4.1.2.1 COAL HANDLING PLANT:**

The bidder should have executed operation and maintenance of Coal Handling (CHP) plant of at least one coal or lignite fired Thermal power station of capacity 1000 MW or above and unit rating of the plant shall be at least 500 MW, which includes Mechanical and Electrical system. The Capacity of coal handling shall be at least 1200 tons/hour.

**4.1.2.2 ASH HANDLING PLANT:**

The bidder should have executed operation and maintenance of Ash handling plant of at least one coal fired Thermal power station of capacity 1000 MW or above and unit rating of the plant shall be at least 500MW, which includes Mechanical and Electrical system..

**4.1.2.3 WATER SYSTEM:**

The bidder should have executed operation and maintenance of Circulating Water System, Cooling Towers, CW Chemical Treatment system, Water Pre-treatment system, Water DM Plant including its RO system, Chlorination system, and Liquid Effluent treatment system of at least one Thermal power station of cumulative capacity 1000 MW or above with unit capacity of not less than 500 MW, which includes Mechanical and Electrical system.

**4.1.2.4 MISCELLANEOUS PLANT UTILITIES:**

The bidder should have executed operation and maintenance of Common Station (Plant) Utilities such as HVAC system, Fire Detection and Protection system, Air Compressors & Compressed air system etc. of at least one Thermal power station of cumulative capacity 1000 MW or above with unit capacity of not less than 500 MW, which includes Mechanical and Electrical system.

**4.1.2.5 STATION ELECTRICAL SYSTEM:**

The bidder should have executed operation and maintenance of Station Electrical Equipments such as Generator Transformers (400/11kV). HT /LT Switchgears, 400 kV Switchyard, Emergency Diesel Generator, Plant DC system such as Batteries, Associated Chargers etc. at least in one Thermal power station of capacity 1000 MW or above and unit rating of the plant shall be at least 500MW.

**4.2 NOTES FOR CLAUSE 4.1**

4.2.1 The bidder shall submit relevant documentary evidence in support of qualification criteria for O&M, like previous similar contract order copies of

executed contracts along with 'Contract execution and Performance Certificate from the Owner/Plant in-charge (certificate issued by Project Authorities/Competent Authority of the Corporation/Board/Organization/Power Utilities).

- 4.2.2 If the bidder itself is Owner of the Plant, then the self-certified 'Performance Report' indicating relevant performance parameters shall be submitted.
- 4.2.3 The work completed in the preceding seven years as on date of issue of NIT even if it has been started earlier, will also be considered as meeting the QR.
- 4.2.4 The work executed by the bidder's group company/subsidiary company shall not be considered for meeting pre-qualification.
- 4.2.5 The work executed by the bidder, as a member of Joint Venture/Consortium/Associate can also be considered provided:

The allocation of scope of work between the partners of the Joint Venture/Consortium/ Associate is clearly defined in the executed JV agreement and bidder's scope of work and breakup of work executed by them as individual contribution in the Joint Venture/Consortium/Associate, duly authenticated by the Authority/owner, meet the relevant provision of PQ requirement.

- 4.2.6 Owner/Developer of a Power station such as Independent Power Producer or Public Sector undertaking, (either wholly or partly owned by State Government(s) and/or Government of India) and having above mentioned O&M experience in their own station can participate as a Bidder against the Clause 4.1 above.
- 4.2.7 A bidder will qualify on the strength of one of its promoters, only if the Bidder, on its own, must have experience of successful Operation and Maintenance of at least one complete coal based Thermal Power station of unit capacity of 250 MW or above for a period of one year during the last seven years.
- 4.2.8 If the Bidder qualifies on the strength of one of its promoters, then the promoter/parent company shall furnish a Corporate Guarantee for supporting successful execution of O&M services and shall furnish additional Bank Guarantee for 2% (two percent) of Contract price (in case of award). However, if the promoter is a PSU or State Govt./GOI, the requirement of Corporate Guarantee and additional BG 2% of Contract price will not be applicable.

Also, the bidder shall deploy head of following divisions from parent/promoter company only:

- Plant Manager
- BTG Local operation & services
- Boiler Maintenance
- Turbine Maintenance