

**NTPC Limited**  
**(A Government of India Enterprise)**  
**(CORPORATE CONTRACTS, NOIDA)**

**INVITATION FOR BIDS (IFB)**  
**FOR**

**PILOT PROJECT FOR SETTING UP CREMATORIUM USING**  
**CONCENTRATED SOLAR THERMAL TECHNOLOGY**  
**(Domestic Competitive Bidding)**

**Bidding Document No: CS-0011-170A-9**

**Date: 28.06.2024**

**1.0** NTPC Limited invites on-line bids at Government e-procurement portal of NIC (GePNIC) at website- <https://eprocurentpc.nic.in/> on **Single Stage Two Envelope Basis (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid)** from eligible Bidders for **Setting up Crematorium using Concentrated Solar Thermal Technology in The Vicinity of Faridabad Gas Station**, as per the scope of work briefly mentioned hereinafter.

**2.0 Brief Scope of Work**

The Brief Scope of Work for PILOT PROJECT FOR SETTING UP CREMATORIUM– USING CONCENTRATED SOLAR THERMAL TECHNOLOGY is as follows :

The complete scope of the proposal for the Design, Engineering, Fabrication, Packing, forwarding, Supply, Transportation and handling, Freight, Insurance, unloading/loading, storage, Construction, civil works including structural and architectural works, Erection, Testing & Commissioning works and O&M for setting up of solar thermal crematorium supplemented by gas or any other alternative backup shall be on the basis of single point responsibility, completely covering the following activities and services in respect of all the equipment & works specified and covered under the Technical specification:

1. Basic Engineering of the system.
2. Detailed design of all the equipment and equipment system(s) including civil, structure steel works.
3. Providing engineering drawings, equipment, solar thermal system sizing, furnace sizing & performance data, instruction manuals, as built drawings and other information.
4. Compliance with statutory requirements and preparation of documents for obtaining clearances from statutory authorities, wherever required.
5. Complete manufacturing including shop testing/type testing (as applicable).
6. Complete Civil, Structural and Architectural works, including survey, setting up of construction offices, providing construction Equipment, construction water supply, service air, instrument air, construction power etc. (as per requirement), infrastructure works.
7. Facilitating liaison with municipal authorities to secure water requirements and DISCOMs for establishing power connection and any other utilities essential for the plant's seamless operation.
8. Packing and transportation from the manufacturer's works to the site including logistic studies, customs clearance & port clearance, port charges, if any.

9. Receipt, storage, preservation, handling and conservation of equipment at the site.
10. Fabrication, pre-assembly, if any, erection, testing, commissioning and completion of facilities including putting into satisfactory operation all the equipment including successful completion of initial operation.
11. Performance Guarantee / Demonstration tests in accordance with bidding documents
12. Reconciliation with customs authorities, as required.
13. O&M of plant for Two (2) years.
14. Insurance and other requirements for the project in accordance with the provisions of the bidding document.

Detailed scope of work has been specified in the bidding documents.

- 3.0** NTPC intends to finance the aforesaid Package through own Resources.
- 4.0** Detailed specification, scope of work and terms & conditions are given in the Bidding Documents, which are available at Government e-procurement portal of NIC (GePNIC) at website- <https://eprocurementpc.nic.in/>. The bidding schedule\* for the tender is as under:

Issuance of IFB	28.06.2024
Document Download start date	29.06.2024
Last date for receipt of queries from bidders (if any)	12.07.2024
Bid (both Techno-Commercial and Price) submission end date & time	Upto 24.07.2024 by 15:00 hrs. (IST)
Date & Time for opening of Envelop-I (Techno-Commercial bid)	25.07.2024 at 15:00 hrs. (IST)
Date & Time for opening of Envelop-II (Price bid)	Shall be intimated after opening of Techno- Commercial Bid.
Cost of Bidding Documents in INR	INR 4500/-

Bidders are advised to visit the GePNIC (e-tender) portal of NTPC for updated bidding schedule of the Tender.

\*\*It is to be noted that "No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries (if applicable) as specified at GePNIC portal of NTPC"

- 5.0** All bids must be accompanied by Bid security for an amount of INR 10,00,000/- (Indian Rupees Ten Lakh only) in the form as stipulated in Bidding Documents.

**ANY BID NOT ACCOMPANIED BY AN ACCEPTABLE BID SECURITY IN A SEPARATE SEALED ENVELOPE SHALL BE REJECTED BY THE EMPLOYER AS BEING NON-RESPONSIVE AND SHALL NOT BE OPENED. IN CASE, THE BID SECURITY IS SUBMITTED THROUGH ELECTRONIC FUND TRANSFER (EFT), BIDDER TO SUBMIT THE PROOF OF E-PAYMENT OF BID SECURITY EITHER IN SEPARATE SEALED ENVELOPE OR IN THE E-TENDERING PORTAL.**

- 5.1 Acceptable Tender Fee payment proof shall be uploaded by all the bidder in the "Fee Cover" at the GePNIC Portal.

**6.0 A complete set of Bidding Documents may be downloaded by any interested Bidder from the e-Tender Portal as per specified schedule. The tender is invited under e-tendering process. The bidders can enroll themselves on the website <https://eprocurementpc.nic.in/>. The use of Digital Signature Certificate (DSC) Class3 key is mandatory for e-tendering activities. Accordingly, bidders should have Digital Signature Certificate (DSC) key of Class 3 to participate in e-tendering. Bidders, if required, can obtain DSC Class-3 key from agencies authorized by Govt. of India. The e-Tender Portal also has the user manuals with detailed guidelines on enrolment and participation in the bidding process.**

**7.0 Qualifying Requirements for Bidders:**

Qualifying Requirement (QR) for subject package is Attached as **Annexure-I**.

**8.0** Only 'Class-I local suppliers' are eligible to participate in this tender, as defined in the bidding documents/ Public Procurement (Preference to Make in India), Order 2017 and its subsequent amendments/ revisions issued by DPIIT (Department for Promotion of Industry and Internal Trade). The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids.

**9.0** Any 'Bidder from a country which shares a land border with India', as specified in the Bidding Documents, will be eligible to bid in this tender only if bidder is registered with the Competent Authority as mentioned in the Bidding Documents.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, will be eligible to bid only if the bidder is registered with the same competent authority.

However, the said requirement of registration will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects.

**10.0** Transfer of Bidding Documents downloaded by one intending Bidder to another is not permissible.

**11.0** Downloading/ issuance of Bidding Documents to any bidder shall not construe that bidder is considered qualified.

**12.0** NTPC reserves the right to reject any or all bids or cancel/withdraw the Invitation for Bids (IFB) for the subject package without assigning any reason whatsoever and in such case no bidder/intending bidder shall have any claim arising out of such action.

**13.0 Address for Communication**

Sr. Manager (CS)/ DGM (CS)  
NTPC Limited  
6<sup>th</sup> Floor, Engineering Office Complex,  
Plot A-8A, Sector 24, Noida-201301,

State of U.P., India

Contact: 0120-494 6551/6526

E-mail : sthareja@ntpc.co.in /  
Arvindkumar01@ntpc.co.in

Websites : <https://eprocurerntpc.nic.in/> or  
[www.ntpctender.ntpc.co.in](http://www.ntpctender.ntpc.co.in) or  
[www.ntpc.co.in](http://www.ntpc.co.in)

**14.0 Registered Office**

NTPC Limited

NTPC Bhawan, SCOPE Complex, 7,

Institutional Area, Lodi Road, New

Delhi – 110003

Corporate Identification Number: L40101DL1975GOI007966,

Website: [www.ntpc.co.in](http://www.ntpc.co.in)

**APPROVED QUALIFYING REQUIREMENTS(QR) FOR**  
**PILOT PROJECT FOR SETTING UP CREMATORIUM USING CONCENTRATED SOLAR THERMAL**  
**TECHNOLOGY**

The bidder should meet the qualifying requirements of any one of the qualifying routes stipulated under clause 1.1 or 1.2 or 1.3 or 1.4. In addition, the bidder should also meet the requirements stipulated under clause 2.0 together with the requirements stipulated under section ITB.

**1.0 TECHNICAL CRITERIA**

**1.1 Route-1: Manufacturer of Cremation Furnace**

The bidder should have manufactured, erected/supervised erection and commissioned/supervised commissioning of at least one (1) number gas/other fuel-based cremation Furnaces which should be in successful operation for at least one year prior to the date of techno-commercial bid opening.

**1.2 Route-2: Concentrated Solar Thermal Plant Supplier**

- a. The bidder should have executed Concentrated Solar Thermal plant involving design, manufacturing/got manufacturing, erection/ supervision of erection and commissioning / supervision of commissioning, of minimum average energy generating capacity of 60KWh equivalent thermal energy per hour with the minimum working fluid temperature of collector of 225<sup>0</sup> C, which should be in successful operation for at least one year prior to the date of techno-commercial bid opening.

Bidder shall offer the technology of solar thermal for which it is qualified.

AND

- b. The bidder shall associate / collaborate with a manufacturer of cremation furnace who meets the requirement of Clause 1.1 prior to the date of techno-commercial bid opening.

In such a case, additionally, bidder shall be required to furnish a letter of undertaking for technical support from the above collaborator/associate, for successful performance of Crematorium Furnace as per the format enclosed in the bidding documents. This letter of undertaking for technical support shall be submitted along with techno-commercial bid, failing which the bidder shall be disqualified and its bid shall be rejected.

**1.3 Route-3: Experience of Industrial / commercial / residential Project Development/Construction**

- (a) Bidder should have experience of construction / developing industrial/ commercial / residential projects, executed in the area of power/power system/ steel/ oil & gas/ petro-chemical/ fertilizer / building construction/ any other process industry / civil construction during last ten (10) years prior to the date of techno-commercial bid opening, with a cumulative value of such project(s) being INR 61 Million (Indian Rupees Sixty One Million Only) or more with individual contract value of such project(s) not less than INR 21 million (Indian Rupees Twenty One Million Only) or more. These project(s) should have been commissioned/completed prior to the date of techno-commercial bid opening.

AND

- (b) The bidder shall associate / collaborate with a manufacturer of cremation furnace who meets the requirement of Clause 1.1 prior to the date of techno-commercial bid opening.

In such a case, additionally, bidder shall be required to furnish a letter of undertaking for technical support from the above collaborator/associate, for successful performance of Crematorium Furnace as per the format enclosed in the bidding documents. This letter of undertaking for technical support shall be submitted along with techno-commercial bid, failing which the bidder shall be disqualified and its bid shall be rejected.

#### **1.4 Route-4: Start-Up Route**

- (a) Bidder should be recognized as a Start-up by Department for Promotion of Industry and Internal Trade (DPIIT).
- (b) The bidder should meet the Technical Criteria at Clause-1.1
- (c) In case of successful award, bidder availing as Start-up exemption shall be required to submit an additional Contract Performance Guarantee (CPG) of 10% of the ex-works cost of the equipment(s).

#### **Note for Clause 1.0**

- i) The value of executed works shall be exclusive of applicable tax/GST.
- ii) If the Value of executed works is in foreign currency, SBI bill selling exchange rate as on the date of award of the reference plant shall be used. In case the exchange rate as on date of award of the reference plant is not available, the exchange rate as on the next available day shall be used.
- iii) The word "executed" means:
- a) In case of Project(s), the project(s) should have been commissioned, even if the contract has been started earlier and / or is not completed / closed.
- b) In case of Contract(s), the scope of work under the contract(s) should have been completed, even if the contract has been started earlier and / or is not closed.

#### **2.0. Financial Criteria**

- 2.1 The average annual turnover of the bidder in the preceding three (3) financial years as on the date of techno-commercial bid opening, should not be less than INR 76 Million (Indian Rupees Seventy Six Million Only) or in equivalent foreign currency.

In case a bidder does not satisfy the average annual turnover criteria, stipulated above on its own, its Holding Company would be required to meet the stipulated turnover requirements as above, provided that the Net Worth of such Holding Company as on the last day of the preceding financial year is at least equal to or more than the paid-up share capital of the Holding Company. In such an event, the bidder would be required to furnish along with its techno-commercial bid, a Letter of Undertaking from the Holding Company, supported by the Holding Company's Board Resolution, as per the format enclosed in the bid documents, pledging unconditional and irrevocable financial support for the execution of the Contract by the bidder in case of award.

- 2.2 Net worth should not be less than 100% (hundred percent) of the bidder's paid up share capital as on the last day of the preceding financial year. In case the bidder does not meet the Net worth criteria on its own, it can meet the requirement of Net worth based on the strength of its Subsidiary (ies) and/or Holding Company and/or Subsidiaries of its Holding companies wherever applicable. The Net worth of the bidder and its Subsidiary(ies) and/or Holding Company and/or Subsidiary(ies) of the Holding Company, in combined manner should not be less than 100% (hundred percent) of their total paid up share capital. However individually, their Net worth should not be less than 75% (seventy five percent) of their respective paid up share capitals.

Net worth in combined manner shall be calculated as follows:

$$\text{Net worth (combined)} = ((X1+X2+X3) / (Y1+Y2+Y3)) \times 100$$

Where X1,X2,X3 are individual Net worth which should not be less than 75% of the respective paid up share capitals and Y1,Y2,Y3 are individual paid up share capitals.

- 2.3 In case the bidder is not able to furnish its audited financial statements on standalone entity basis, the unaudited unconsolidated financial statements of the bidder can be considered acceptable provided the bidder further furnishes the following documents for substantiation of its qualification:
- (i) Copies of the unaudited unconsolidated financial statements of the bidder along with copies of the audited consolidated financial statements of its Holding Company.
  - (ii) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed with the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated financial statements of the Holding Company.

In cases where audited results for the last financial year as on the date of techno-commercial bid opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, bidder is not able to submit the Certificate from a practicing Chartered Accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further, a Certificate would be required from the CEO/CFO as per the format enclosed in the bidding documents stating that the financial results of the Company are under audit as on the date of techno-commercial bid opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.

**Notes for Clause 2.0:**

- i) Net worth means the sum total of the paid up share capital and free reserves. Free reserves means all reserves credited out of the profits and share premium account but do not include reserves credited out of the revaluation of the assets, write back of depreciation provision and amalgamation. Further any debit balance of Profit and Loss account and miscellaneous expenses to the extent not adjusted or written off, if any, shall be reduced from reserves and surplus.
- ii) Other income shall not be considered for arriving at annual turnover.
- iii) "Holding Company" and "Subsidiary" shall have the meaning ascribed to them as per Companies Act of India.
- iv) For Annual Turnover indicated in foreign currency, the exchange rate as on seven (7) days prior to the date of techno-commercial bid opening shall be used.
- v) Requirement of Financial Criteria will not be applicable for bidders qualifying through Start-up route as per clause 1.4.

### **Brief Scope of Work**

Brief Scope of Work The complete scope of the proposal for the Design, Engineering, Fabrication, Packing, forwarding, Supply, Transportation and handling, Freight, Insurance, unloading/loading, storage, Construction, civil works including structural and architectural works, Erection, Testing & Commissioning works and O&M for setting up of solar thermal crematorium supplemented by gas or any other alternative backup shall be on the basis of single point responsibility, completely covering the following activities and services in respect of all the equipment & works specified and covered under the Technical specification:

1. Basic Engineering of the system.
2. Detailed design of all the equipment and system(s) including civil, structure steel works.
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4. Compliance with statutory requirements and preparation of documents for obtaining clearances from statutory authorities, wherever required.
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8. Packing and transportation from the manufacturer's works to the site including logistic studies, customs clearance & port clearance, port charges, if any.
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