

NTPC Limited
(A Government of India Enterprise)
Contract Services, EOC Noida

INVITATION FOR BIDS (IFB)

FOR

**Plasma Gasification based 'Green Hydrogen' generation from MSW-RDF / Agri-waste at
NETRA, NTPC Greater Noida**

(Domestic Competitive Bidding)

GEPNIC Tender Ref. No: XXXXXXXXXXXX

Date: 04.07.2025

Bidding Document No: CS-0011-940A-9

- 1.0** NTPC 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 aforesaid package, as per the scope of work briefly mentioned hereinafter.
- 2.0 Brief Scope of Work**
- Design and detailed engineering, Procurement, Fabrication, Supply, Packing, Loading, Forwarding, Transportation, Unloading, Storage, Preservation, Freight, Insurance, Clearances, Custom or any other duty, Construction, Erection, Commissioning, Shop, Field Quality Tests and PG Test of 1 TPD Green Hydrogen plant including Mandatory spares supply of Feed Stock (MSW-RDF / Agri Waste) and 2 years O&M of the plant at NETRA, NTPC Greater Noida.
- 3.0** NTPC intends to finance the aforesaid Package through Domestic/Own Resources.
- 4.0** Detailed specification, scope of work and terms & conditions are given in the Bidding Documents, which are available at the GePNIC (e-tender) portal at <https://eprocurentpc.nic.in/>. The Bidding Schedule* for the Tender is as under:

Issuance of IFB	04.07.2025
Documents Download Date and Time	From 10.07.2025, 1700 hrs (IST)
Last date for receipt of queries from bidders (if any)	21.07.2025
Pre-Bid Conference date & time	18-07-2025 at 10:30 hrs (IST) at NTPC Netra
Bid (both Techno-Commercial and Price) receipt date & time	Up to 1500 hrs (IST) on 06.08.2025
Date & Time for opening of Techno-Commercial bid	07.08.2025 at 1530 Hrs. (IST)
Date & Time for submission and opening of Price bid	Shall be intimated after opening of Techno-Commercial Bid.
Cost of Bidding Documents in INR	INR 22,500/-

****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/ Pre-Bid Conference (if applicable) as specified at GePNIC portal of NTPC".***

- 5.0** All bids must be accompanied by Bid Security for an amount **INR 2,00,00,000/- (Indian Rupees Two Crores only)** in the form as stipulated in the 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. IN CASE, THE BID SECURITY IS SUBMITTED AS E-BG/ THROUGH ELECTRONIC FUND TRANSFER (EFT), BIDDER TO SUBMIT THE COPY OF E-BG/PROOF OF E-PAYMENT OF BID SECURITY EITHER IN SEPARATE SEALED ENVELOPE OR IN THE E-TENDERING 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://eprocurentpc.nic.in/>. The use of Digital Signature Certificate (DSC) Class-3 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.

No hard copy of Bidding Documents shall be issued. Bids shall be submitted ONLY at the e-Tender Portal i.e. <https://eprocurentpc.nic.in/>

- 7.0 Qualifying Requirements for Bidders:**

Qualifying Requirement (QR) for subject package is attached as Annexure-I to this IFB.

- 8.0** "Class-I local suppliers' only 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. The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids."

Only Class-I local suppliers are eligible to Bid. Bids received (if any) from Class-II Local Supplier / Non Local Supplier shall be out rightly rejected.

- 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 by one intending Bidder to another is not permissible.

11.0 Downloading/Issuance of Bidding Documents and /or submission of Bid 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) 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)/ AGM (CS)
NTPC Limited
Plot A-8A, Sector 24, Noida-201301
State of U.P. India
Contact: 9555551491 / 9650992301
e-mail: rohitgautam@ntpc.co.in / abhishekjain02@ntpc.co.in

Websites: www.ntpctender.ntpc.co.in or www.ntpc.co.in
or <https://eprocurerntpc.nic.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

Qualifying Requirement

**Design, Development and Setup of “Plasma Gasification based
‘Green Hydrogen’ generation from MSWRDF / Agri-waste at NETRA, NTPC Greater Noida”**

1.0.0 In addition to the requirements stipulated under section Instruction to Bidder (ITB), the bidder should also meet the qualifying requirements stipulated hereunder:

1.1.0 TECHNICAL CRITERIA

- a) The bidder should have executed project(s) on Engineering, Procurement & Construction (EPC) basis (with or without civil works) in the area of power /metallurgy/ steel / oil & gas/ petrochemical/ hydrocarbon/chemical/ water/effluent treatment plant/ fertilizer plants/Hydrogen plant/ Gasification Plant, during last fifteen(15) years reckoned as on the date of Techno-Commercial Bid Opening, with a cumulative value of such project(s) being ₹1540 Million (Rupees One Thousand, Five Hundred Forty Million Only) or more with individual contract value of such project(s) not less than ₹550 Million (Rupees Five Hundred Fifty Million Only). The reference project(s) should have been successfully operated for at least 12 months prior to the date of techno- commercial bid opening
and
- b) "The bidder, as on the date of Techno- commercial bid opening, should have a Technology License Agreement / Agreement for the Right to Use the Technology with Technology Provider having patent for Plasma based radiant energy enhanced gasification of carbonaceous/carbon compound for syngas production of desired composition.

Notes for Clause 1.1.0

- a. For meeting qualifying requirement under clause 1.1.0 (b), bidder can also have a valid Technology License Agreement / Agreement for Right to Use of Technology with Licensee of the Technology Provider (provided that such
 - i. licensee has the right to use the technology of the Technology Provider and
 - ii. Right to enter into Technology License Agreement/ Agreement for Right to Use of Technology with the bidder.
- b. Technology License agreement/ Agreement for Right to Use of Technology shall be valid at least four years from the date of Techno-commercial bid opening or till the end of defect liability period of the contract or the completion of O&M period, whichever is later.
- c. The word “executed” in Clause 1.1.0 means the Bidder should have commissioned the plant(s) within the specified period even if the contract has been started earlier and/ or is not closed.
- d. A bidder can tie up with only one Technology Provider. In case a bidder submits bid(s) with multiple Technology Providers, all such bids shall be rejected. A Technology Provider can tie-up with multiple bidders.
- e. The Bidder shall also be considered qualified in case the award for executing the reference works has been received by the Bidder either directly from the owner of the plant or any other intermediary. However, a certificate from the owner of the plant shall be furnished by the Bidder along with the Techno- Commercial bid for the successful operation criterion as specified at clause 1.1.0 (a).
- f. If the Value of the reference works indicated in clause 1.1.0 (a) is in foreign currency, SBI Bill Selling exchange rate as on the date of award of the reference work shall be

considered. In case the exchange rate as on the date of award is not available, the exchange rate as on the next available day shall be considered.

2. 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 ₹1026 Million (Rupees One Thousand and twenty-six Million Only) or in equivalent foreign currency.
- 2.2 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.
- 2.3 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 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. In such a case, however 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.

- 2.4 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:
- Copies of the unaudited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company. 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

1. Net worth means the sum total of the paid-up share capital and free reserves. Free reserves mean 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.
2. Other income shall not be considered for arriving at annual turnover.
3. "Holding Company" and "Subsidiary" shall have the meaning ascribed to them as per Companies Act of India.
4. For Annual Turnover indicated in foreign currency, SBI Bill Selling exchange rate as on seven (7) days prior to the date of Techno-Commercial bid opening shall be used. In case the exchange rate as on (7) days prior to the date of Techno-Commercial bid opening is not available, the exchange rate as on the next available day shall be considered.