

INVITATION FOR BIDS



NTPC RENEWABLE ENERGY LIMITED
(A WHOLLY OWNED SUBSIDIARY OF NTPC LIMITED)

CONTRACTS SERVICES

INVITATION FOR BIDS (IFB)
FOR
SELECTION OF ELECTROLYSER TECHNOLOGY PROVIDER(S) FOR PARTICIPATING
IN THE UPCOMING TENDERS ON GREEN HYDROGEN

(International Competitive Bidding)

IFB No.: NRE-CS-5851-004-9

Date: 02.06.2022

ETS Portal Tender Search Code: NTPCREL-2022-TN000013

Bidding Document No: NRE-CS-5851-004-9

1.0 NTPC Renewable Energy Limited (NTPC REL) invites online bids from eligible bidders on Two Stage (i.e., Stage-I: Techno-Commercial Bid and Stage-II: Price Bid) basis for **Selection of Electrolyser Technology Provider(s) for participating in upcoming tenders on Green Hydrogen.**

2.0 BRIEF SCOPE OF WORK

This tender intends to select electrolyser technology provider(s) for a period of 2 years for the following capacities:

- i. PEM Technology: 400 MW**
- ii. Other/ Non-PEM Technology: 600 MW**

The selected technology provider(s) shall provide support to the Employer for bidding in various tenders related to Green Hydrogen. As per actual requirement, separate contract(s) shall be entered into with the selected technology provider(s) for execution of the work. The brief scope of work under the agreement is as below:

- 1. Design, engineering, manufacturing, supply, packing and forwarding, custom duties, insurance, transportation (Ex India), storage, installation, testing, commissioning, trial operation, PG test and O&M of electrolyser-based hydrogen generation plant*
- 2. The equipment/system/documentation required are for:*
 - a. Hydrogen generation system (with proper environmental protection) using a bipolar type water Electrolyser of the PEM and OTHER technology. Grid power at input voltage of 33kV would be provided by NTPC REL and power management for hydrogen generation system shall be in the scope of the bidder.*
 - b. Hydrogen Purifier / De-oxo/ Dryer to be installed with an output Hydrogen purity of 99.99% and to be housed in a container*
 - c. Water treatment plant to convert potable water into De-Ionised water and required quality of cooling water.*
 - d. Service Air and Instrument Air system (if required)*
 - e. Hydrogen Compression system (either through a compressor or with integral design of the system) with final discharge pressure capability of at least 25 Bar.*

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- f. All statutory/ PESO requirements for layout/storage vessel and relevant IS/ISO/IEC/OISD/NFPA standards must be adhered to.
- g. Closed loop heating/ cooling circulation system to evacuate heat from the electrolyzers module
- h. Three (3) Years O&M would be under the contract (including all spares and consumables)

The detailed scope of work is as defined in the bidding document No.: **NRE-CS-5851-004-9**

3.0 NTPC REL intends to finance the subject package through Own Resources.

4.0 Detailed specification, Scope of work and Terms & Conditions are given in the bidding documents, which are available for examination and downloading at e-tender portal (as specified in this notice) and as per the following schedule:

ETS Portal Tender Search Code (TSC)	NTPCREL-2022-TN000013	
IFB Date	02.06.2022	
Period of Downloading of Bidding Documents	From 09.06.2022 to 30.06.2022	
Pre Bid Conference and Last Date for receipt of queries from prospective Bidders	06.07.2022	
Last date and time for receipt of Techno-Commercial bid	20.07.2022	17:00:00 (IST)
Date and time for opening of Techno-commercial Bid	21.07.2022	11:00:00 (IST)
Invitation for Submission of Price Bid	To be notified later	
Last date and time for receipt of Price bid	To be notified later	
Date and time for opening of Price Bid	To be notified later	
Cost of Bidding Documents	INR (₹) 22,500/- (Indian Rupees Twenty Two Thousand Five hundred only) for Indian Bidders OR USD (\$) 500/- (US Dollars Five Hundred only) for Foreign Bidders	

No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries/ Pre-Bid Conference as specified above.

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5.0 All bids must be accompanied by Bid Security for an amount as mentioned below in the form as stipulated in the Bidding Documents:

(a) INR (₹) 20 crore only [Indian Rupees Twenty Crore only] for Indian Bidders

OR

(b) USD(\$) 2,548,800 only [United States Dollars Two Million Five Hundred Forty Eight Thousand Eight Hundred only] for Foreign Bidders

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 RETURNED TO THE BIDDER WITHOUT BEING OPENED.

6.0 QUALIFYING REQUIREMENTS FOR BIDDERS

In addition to satisfactory fulfilment of the requirements stipulated under ITB (Instructions to Bidders) the following shall also apply:

1.0 TECHNICAL CRITERIA

Route-1: Qualified Bipolar type Water Electrolyser Manufacturer for Hydrogen Generation System (QEM)

Bidder should be a manufacturer of bipolar type water electrolyser plant having a manufacturing capacity (owned or leased) in any part of the world for producing **PEM technology / Other Bipolar type water electrolyser plant** and having at least a **total annual production capacity of 50 MW electrolyser plants** at the time of techno-commercial bid submission date.

OR

Route – 2: Bidder should be a **Channel Partner of the Qualified Bipolar type Water Electrolyser Manufacturer for Hydrogen Generation System (QEM)** meeting the requirements stipulated at **Route-1** above and the bidder should have an ongoing collaboration agreement with the QEM with the validity for a period at least up to the end of the defect liability period of the contract.

In such a case an “Undertaking jointly executed by the bidder and the QEM for complying the provisions of Deed of Joint Undertaking” shall be submitted by the bidder along with their techno-commercial bid as per the format provided in the bidding documents, failing which bidder shall be disqualified and its bid shall be rejected.

Further, the bidder emerging as the successful Bidder shall be required to submit the applicable Deed of Joint Undertaking (DJU) executed by it and the QEM, meeting the requirements of **Route-1**, in which the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the Electrolyser System as per format enclosed with the bidding documents.

Note:

- a. The Bidder shall submit a Third-Party Inspection (TPI) certificate (as per the given list below) certifying that the QEM's manufacturing facility is capable of manufacturing

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electrolyser modules of the capacity of at least 50 MW/year for PEM or OTHER technology electrolyzers, at the time of techno-commercial bid submission. This list of independent third-party inspection agencies is as under.

1. Société Générale de Surveillance (SGS)
2. Gulf Lloyds Industrial Services
3. Lloyd's Register
4. International Certification Services (ICS)
5. Bureau Veritas
6. DNV GL
7. TUV Rheinland
8. TÜV SÜD South Asia Pvt. Ltd.
9. TÜV Nord Group
10. Intertek
11. Moody International
12. RINA
13. Any other, subject to approval by NTPC REL prior to submission of bid.

All charges of the Third party for verification and certification shall be borne by the Bidder.

- b. **Channel Partner:** A channel partner is defined for this project as an entity that has a valid authorization/agreement with the QEM to market/supply/ assemble/sell the QEM's products.
- c. For bidders participating for both PEM and OTHER technology tender must specify the QEM's manufacturing capability separately for PEM and OTHER technology electrolyzers production

2.0 FINANCIAL CRITERIA

- 2.1 The average annual turnover of the Bidder should not be less than **USD 64 Million** during the preceding three (3) financial years as on date of techno commercial bid submission. In case a Bidder does not satisfy the annual turnover criteria, stipulated above on its own, its Holding Company would be required to meet the stipulated turnover requirement as above. 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.

OR

The bidder shall submit a letter from their bank, confirming the availability of line of credit for **USD 21 Million**. The letter to be furnished by the bidder for the line of credit shall be submitted from its banker strictly as per the format enclosed in the bidding documents.

- 2.2 The bidder should have positive net-worth as on the last day of the preceding financial year. The bidder can also comply the positive net worth criteria not later than seven (07) days

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before the techno-commercial bid submission date. In such a case, the bidder needs to submit certified financial statements as on seven (7) days prior to the techno-commercial bid submission date by the statutory auditor(s) of the company.

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 on substantiation of its qualification:

a) Copies of the unaudited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company.

b) Certificate from the CEO/ CFO of the Holding Company, as per the format enclosed in the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated financial statement of the Holding Company.

In case where audited results for the last financial year are not available, the financial results certified by the statutory auditors of the company shall be considered acceptable. In case the Bidder is not able to submit the Certificate from statutory auditors certifying its financial parameters, the audited result of three consecutive financial years preceding the last financial year shall be considered for evaluating 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 techno-commercial bid opening and the Certificate from a 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 does 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. The value of the annual turnover and the value of the available line of credit from bank, indicated above, shall be converted to USD (US Dollars) if indicated in any other currency. For the purpose of currency conversion, the exchange rates as on seven (7) days prior to the date of Techno-commercial bid opening shall be used.

7.0 NTPC REL reserves the right to reject any or all bids or cancel/ withdraw the Invitation for Bids without assigning any reason whatsoever and in such case no bidder/ intending bidder shall have any claim arising out of such action.

8.0 Interested parties are required to get registered with M/s ISN Electronic Tender Services (ETS) website <https://www.bharat-electronictender.com> (if not already registered).

The cost of the bidding documents as mentioned above is required to be submitted in the form of a crossed account Payee Demand Draft in favour of **"NTPC Renewable Energy Limited"**, Payable

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at **Noida** at the address mentioned at para no.11.0 below along with GSTIN and Organization ID registered with ETS. Interested Bidders can also pay for the cost of documents as mentioned above in the form of Electronic transfer/ NEFT Payments in the following account details of NTPC Renewable Energy Limited:

Account Number	921020013636047
IFSC Code	UTIB0000022
Name of Bank	Axis Bank
Branch Code	000022
Address	Axis Bank Ltd B2-B-3, Sector 16, Noida Gautam Buddha Nagar, UP 201301

In case of electronic fund transfer, the bidder shall be required to forward the copy of transfer receipt/ electronic transfer receipt from their registered E-mail ID to the concerned nodal officers of NTPC REL as mentioned below requesting for access for download of the bidding documents in working hours between Monday to Friday.

While carrying out online transfer, Bidders shall ensure to enter "Tender No. - Bidder Name" in the Text / Remarks / Reason field. Bidder shall intimate the details of same through email to Employer and also upload the details on ETS portal (Technical Bid Part) in the following format:

Declaration for Payment of Cost of Bidding Document

Tender Search Code:
Bidder Name:
UTR Reference:
Amount:
Date of Transfer:
Transferor Bank:

(Signature of Bidder with Seal)

8.1 Issuance of Bid Documents to any Bidder shall not construe that such Bidder is considered to be qualified. The bids shall be submitted online. Bidder shall furnish Bid Security, Pass Phrases and Power of Attorney separately as detailed in Bidding Documents before the stipulated bid submission closing date and time at the address given below.

8.2 After registration with ETS and payment of the cost of bidding documents as above, a complete set of Bidding Documents may be downloaded by any interested Bidder from ETS Portal <https://www.bharat-electronictender.com> with Tender Search Code **NTPCREL-2022-TN000013**.

*Interested bidders are required to ensure that they have downloaded the official copy of bidding documents against Tender Search code- **NTPCREL-2022-TN000013** from website of ETS before closure of Bid Sale Period.*

For technical assistance, interested parties may call ETS Helpdesk at +91-124-4229071, +91-124-4229072.

Note: No hard copy of Bidding Documents shall be issued.

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9.0	Transfer of Bidding Documents purchased by one intending Bidder to another is not permissible.
10.0	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 above.
11.0	<p>ADDRESS FOR COMMUNICATION</p> <p>Addl. General Manager (CS)/ Senior Manager (CS) Contracts Services NTPC Renewable Energy Limited 4th Floor, NETRA Building E-3, Ecotech-II, Udyog Vihar, Greater Noida Gautam Buddha Nagar, Uttar Pradesh, India, Pin – 201306</p> <p>Telephone No. +91-120-2356640, +91-120-2356602, +91-9403690748 E-Mail: shailendra@ntpc.co.in / ishanakhouri@ntpc.co.in</p> <p>Corporate Identification Number: U40107DL2020GOI371032, Website: www.ntpcrel.co.in</p>