

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

**CONTRACTS SERVICES**

**NOTICE FOR UPCOMING INVITATION FOR BIDS**

**FOR**

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

**(International Competitive Bidding)**

**Date: 25.04.2022**

**1.0 NTPC Renewable Energy Limited (NTPC REL) intends to invite online bids from eligible bidders 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**

Employer shall enter into an agreement with the selected technology provider(s) who shall provide support to the Employer for bidding in various tenders related to Green Hydrogen. 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, storage, installation, testing, commissioning, trial operation and PG test of electrolysers-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 or OTHER technology. Grid power at input voltage of 33 kV/ 415 V would be provided by Employer.
  - 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
  - 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.

- 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. Operation & Maintenance
- i. Supply of Mandatory Spares

### 3.0 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 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.

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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 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.

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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.

4.0 The detailed Invitation for Bids (IFB) shall be issued on <https://ntpctender.ntpc.co.in> on a later date and the bidding documents shall be made available on ETS Portal <https://www.bharat-electronictender.com> subsequently.

Interested parties are requested to keep visiting <https://ntpctender.ntpc.co.in> for further details.

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

As per the IT ACT, **Foreign Bidders are required to possess Digital Signature issued by Indian Certifying Authority only.** Interested parties are requested to ensure possession of Class III Digital Signature issued by Indian Certifying Authority. Brief information related to **Digital Signature for Foreign Vendors** is enclosed as **Annexure** to this notice.

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**4.2** For technical assistance, interested parties may call ETS Helpdesk at:  
+91-124-4229071/ +91-124-4229072

**5.0 ADDRESS FOR COMMUNICATION**

**Addl. General Manager (CS)/ Senior Manager (CS)**

Contracts Services

NTPC Renewable Energy Limited

4<sup>th</sup> Floor, NETRA Building

E-3, Ecotech-II, Udyog Vihar, Greater Noida

Gautam Buddha Nagar, Uttar Pradesh, India, Pin – 201306

Telephone No. +91-120-2356640, +91-120-2356602, +91-9403690748

E-Mail: [shailendra@ntpc.co.in](mailto:shailendra@ntpc.co.in) / [ishanakhouri@ntpc.co.in](mailto:ishanakhouri@ntpc.co.in)

Corporate Identification Number: U40107DL2020GOI371032, Website: [www.ntpcrel.co.in](http://www.ntpcrel.co.in)

<b>NTPC RENEWABLE ENERGY LIMITED</b>
<b>ANNEXURE TO NOTICE FOR UPCOMING INVITATION FOR BIDS DATED 25.04.2022</b>

### Digital Signature for Foreign Vendor

As per the IT ACT 2000, all bidders who participate in the online bidding process should possess a valid "Digital Signature" issued by any of the Digital Signature Certificate (DSC) vendors approved by CCA, India (<https://cca.gov.in>).

Digital signature certificate is required as part of the two-factor authentication as well as signing of bid documents while working with eProcurement portal. The specification of digital signature certificate is: Digital Signature Certificate (Signing usage) of type Class 3 issued by any Certifying Authority (CA) under Controller of Certifying Authorities (CCA) of India.

"Certifying Authorities" under CCA are issuing Digital Signature to Foreign Vendors. As on date 20th May 2021, below are the names of the vendors issuing DSC to Foreign Vendors

- Capricorn Identity Services Pvt. Ltd. ([www.certificate.digital/](http://www.certificate.digital/))
- eMudhra ([www.e-mudhra.com/](http://www.e-mudhra.com/))
- Sify Technologies Limited ([www.sifycorp.com](http://www.sifycorp.com))
- VSIGN ([www.vsign.in/](http://www.vsign.in/))

### Procedure for Obtaining Digital Signature by Foreign Vendors

As of now, it is learnt that eMudra and Sify Technologies Limited issue DSCs with the following procedure. Generally, the documents that are required to be submitted by Foreign Nationals are as follows:

1. Email id, mobile number, photo, scanned copy of proof of identity and scanned copy of proof of address are required to be submitted.
2. Foreign Individual:
  - a. For identity proof, the scanned copy of Passport/Local Govt issued identity/PAN/OCI passport can be submitted.
  - b. For the address proof the scanned copy of passport/OCI passport/local government issued id having address/bank details having address/any utility bills in the name of applicant issued within three months, or document issued from embassy with residential address can be provided
3. Foreign Organization:
  - a. Scanned copy of organisational id, organisational email id, mobile number, organisational address and letter of authorization from organisation are required.
  - b. For the proof of organisational existence, publically verifiable and listed/recognized by local government reference of organisation in database/registry shall be provided.

If the organisation is already registered/empanelled in government organizations of India, then the scanned copy of the letter of request issued from Indian government organisation with the details of DSC applicant can be accepted as address proof/existence of organisation for DSC issuance. Bank account statement in the country of residence, duly attested by Indian Embassy / High Commission / Consulate / Apostille in the country, where the applicant is currently located. (At least 6 months of Bank transactions) with the proof indicating the account is owned by the Individual.

**Note:** *The Information given above is attached for facilitating the Foreign Nationals to procure DSCs from the Indian CA authorized vendors for information purpose only as obtained from Government e-Procurement portal. Please visit respective CA's websites for detailed and latest information on procurement of DSC.*