

INVITATION FOR BIDS

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

STRATEGIC PROCUREMENT GROUP

**INVITATION FOR BIDS (IFB)
FOR**

**Development of ISTS Connected 250 MW/500 MWh Standalone Battery Energy Storage System
(International Competitive Bidding)**

IFB No.: NRE-CS-5777-005-9

Date: 27.04.2022

ETS Portal Tender Search Code: NTPCREL-2022-TN000007

Bidding Document No: CS-5777-005-9

1.0 NTPC Renewable Energy Limited (NTPC REL) invites online bids from eligible bidders on Single Stage Two Envelope (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) for Development of ISTS Connected 250 MW/500 MWh Standalone Battery Energy Storage System. The bidding process shall be followed by e-Reverse Auction.

2.0 BRIEF SCOPE OF WORK

Design, Engineering, Manufacturing, Supply, Packing and Forwarding, Transportation, Unloading, Storage, Installation and Commissioning of grid connected Standalone Battery Storage System of 250MW/500MWH capacity located near Fatehgarh-III ISTS substation in Rajasthan.

Bidder shall provide comprehensive operation & maintenance of the BESS plant (including Battery replacement and disposal if required) for a period for 12 years from the date of Commercial Operation.

BESS Project capacity : 250MW with 500MWH

Project Life =12 Years after COD.

Annual Degradation Allowed: - 2.5% per Year (MWh)

Demonstration of Capacity after 12 years of COD =70% of Capacity at SCOD.

The scope includes the following: -

1. Detailed design, fabrication, shipping, assembling, testing, start-up, commissioning of all the equipment and system(s) including civil works. Warrant and make ready for service a fully functional turnkey battery energy storage system that meets or exceeds all requirements.
2. Design, install and make ready an Energy Management System (EMS) with control and communication system for monitoring and controlling battery/BMS and PCS parameters.
3. All Civil, Structural and Architectural works for BESS and associated electrical system including 33 kV Pooling switchgear and CMCS building.

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4. Development of Internal 220 kV Switchyard evacuation system from 33kV Pooling switchgear and necessary Transmission Line for connection with Fatehgarh-III ISTS Substation
5. Project commissioning and Performance testing for demonstration of Guaranteed capacity at interconnection point at ISTS Fatehgarh-III substation.
6. Performance testing at each year and end of Project Life (12 years from COD).

The detailed scope of work is as defined in the bidding document No.: **CS-5777-005-9**.

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-TN00000X	
IFB Date	27.04.2022	
Period of Downloading of Bidding Documents	04.05.2022 to 18.05.2022	
Pre-Bid Conference and Last Date for receipt of queries from prospective Bidders	20.05.2022	
Last Date and Time for receipt of bids comprising both Techno-Commercial Bid and Price Bid	06.06.2022	15:00:00 (IST)
Date & Time of opening of Techno-Commercial Bid	06.06.2022	15:30:00 (IST)
Cost of Bidding Documents in INR	INR 22,500/- (Indian Rupees Twenty-Two Thousand Five hundred only)	

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.

5.0 All bids must be accompanied by "Bid Security" for an amount of **INR 20,00,00,000/-** indicated as per table below and 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 AND SHALL NOT BE OPENED.

6.0 QUALIFYING REQUIREMENTS FOR BIDDERS

The Bidder should also 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.

1.0 TECHNICAL CRITERIA

1.1 Route 1: The bidder should have manufactured and supplied Batteries for grid interactive battery energy storage system(s) of cumulative installed capacity of 40 MW or higher, out of which at least one grid interactive battery energy storage system should be of 10 MW

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capacity or higher. The reference grid interactive battery energy storage system of 10 MW or higher capacity must have been in successful operation for at least six (6) months prior to the date of techno-commercial bid opening.

1.2 **Route 2:** The bidder should be an integrator of grid interactive battery energy storage system(s) of cumulative installed capacity of 40 MW or higher, out of which at least one grid interactive battery energy storage system should be of 10 MW capacity or higher. The reference grid interactive battery energy storage system of 10 MW or higher capacity must have been in successful operation for at least six (6) months prior to the date of techno-commercial bid opening.

1.3 **Route 3:** The Indian Bidder should have technical collaboration agreement or should have a manufacturing license or should be a joint venture company of a Battery Manufacturer meeting the requirements stipulated at Clause 1.1 (Route-1) above. In case of technical collaboration/ license, bidder shall furnish along with the bid a copy of such license/collaboration agreement done with the battery manufacturer and such agreement should be ongoing and valid for a period at least up to the end of the O&M period of the contract. In case the bidder is a joint venture company of a battery manufacturer meeting the requirements stipulated at clause 1.1 (route 1), the bidder shall submit a copy of joint venture formation document along with their techno-commercial bid. Bidder shall also furnish an Undertaking jointly executed by the license provider/ technology collaborator/ JV partner qualified as per clause 1.1 and the Bidder along with its bid for complete performance of the contract jointly or severally as per format enclosed in the bid document failing which the Bidder's bid is liable to be rejected.

1.4 **Route 4:**

(i) The bidder should have executed in the last ten (10) years an industrial project either as developer or as EPC Contractor in the area of power/ steel/ oil and gas/ petro-chemical/ fertilizer/cement/coal mining including coal handling plant and/ or any other process industry, of a value of INR 2000 Million (Indian Rupees two thousand million Only) or more in a single project or single work respectively and the same must be in successful operation for at least one (1) year prior to the date of techno-commercial bid opening.

AND

(ii) The bidder should have executed at least one (1) Electrical Sub-station of 33kV or above voltage level, consisting of equipments such as 33kV or above voltage level circuit breakers and power transformer, either as developer or as EPC Contractor which must be in successful operation for at least one (1) year prior to the date of techno-commercial bid opening.

The works referred to at Clause 1.4(i) & 1.4(ii) can be in same or different projects.

Notes for Clause 1.0:

- a. The reference grid interactive battery energy storage system of 10 MW or higher capacity should be at a single location developed by Bidder for itself or any other client.
- b. Bidder shall submit the certificate of successful completion and operation from the Owner.
- c. Projects executed by Bidder's group company, Holding Company or Subsidiary Company shall also be considered as Bidder's experience for meeting the QR.

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- d. Integrator under 'Route 2' means, the agency/entity which has supplied (with or without Battery), installed/supervised installation, commissioned/supervised commissioning of grid interactive Battery energy Storage system (BESS) and carried out related the grid integration work(s) for grid-connected renewable energy application or energy shifting/peak shaving application or frequency regulation application or Load levelling application.
- e. Grid interactive Battery Energy Storage System (BESS) shall consists of Battery System (BS), Power Conversion System (PCS) & Energy Management System (EMS) and used for grid connected renewable energy application or energy time shifting/ peak shaving application or frequency regulation application or Load leveling application.
- f. In case the award for the reference works has been received by the Bidder either directly from owner of plant or any other intermediary organization, a certificate from such owner of plant or the intermediary organization shall be required to be furnished by the Bidder along with its techno-commercial bid in support of its claim of meeting requirement stipulated above. Certificate from owner of the plant shall also be furnished by the Bidder for successful operation of the reference plant.
- g. In case of developer as bidder in 'Route 4' the documentary evidence (certified by Chartered Accountant) for value of executed reference work must be submitted by the bidder. Here Developer means an entity who has either executed or got executed the work/project as owner of industrial projects.
- h. The execution of industrial project as EPC Contractor under 'Route 4' means, such EPC Contractor is responsible for all the activities i.e. Design/Engineering, Procurement, Construction and Commissioning of a project/work.

2.0. FINANCIAL CRITERIA

- 2.1 The average annual turnover of the Bidder, should not be less than **INR 2000 million (Indian Rupees two thousand million Only)** or in equivalent foreign currency, **for any three financial years out of the preceding five financial years** as on the date of techno-commercial bid opening.

In case a Bidder does not satisfy the average annual turnover criteria, stipulated at Clause 2.1 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 its 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 of the Bidder as on the last day of the preceding financial year should not be less than 100% (one hundred percent) of bidder's paid-up share capital. In case the Bidder does not satisfy 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% (one 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:

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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% (seventy five percent) 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 on 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) 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 as on date of techno-commercial bid opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case the Bidder is not able to submit the Certificate from a practicing Chartered Accountant certifying its financial parameters, the audited result **of any three out of five 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:

- a) 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.
- b) Other income shall not be considered for arriving at annual turnover.
- c) "Holding Company" and "Subsidiary" shall have the meaning ascribed to them as per Companies Act of India.
- d) For 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.

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 at **Noida** at the address mentioned at para no.11.0 below along with GSTIN and Organization ID

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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:

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)

8.2 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 Declaration, Integrity Pact, 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.

8.1 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-TN000007**.

*Interested bidders are required to ensure that they have downloaded the official copy of bidding documents against Tender Search code- **NTPCREL-2022-TN000007** from website of ETS before closure of Bid Sale Period. If only free copy of Bidding Documents are downloaded from ETS portal or Bidding Documents are downloaded without confirmation or without generating official copy serial number, then the bidders will not be able to submit the bids.*

For technical assistance, interested parties may call ETS Helpdesk at 0124-4229071, 0124-4229072.

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** *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.*
- 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.*

12.0 ADDRESS FOR COMMUNICATION

Addl. General Manager/ Senior Manager

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