

**INVITATION FOR BIDS**

**NTPC LIMITED  
(A GOVERNMENT OF INDIA ENTERPRISE)**

**RENEWABLE ENERGY – CONTRACTS SERVICES, GREATER NOIDA.**

**INVITATION FOR BIDS (IFB)**

**FOR**

**BESS MAIN PACKAGE FOR DEVELOPMENT OF GRID CONNECTED 250MW/500MWH  
STANDALONE BESS AT NTPC-GADARWARA AND NTPC-SOLAPUR**

**(International Competitive Bidding)**

**IFB No: RE-CS-5814-005-9**

**Date: 12.06.2024**

**ETS Portal Tender Search Code: NTPC-2024-TN000007**

**Bidding Document No: RE-CS-5814-005-9**

**1.0 NTPC Ltd. (NTPC) invites online bids from eligible bidders on Single Stage Two Envelope (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) for BESS MAIN PACKAGE FOR DEVELOPMENT OF GRID CONNECTED 250MW/500MWH STANDALONE BESS AT NTPC-GADARWARA AND NTPC-SOLAPUR.**

**2.0 BRIEF SCOPE OF WORK**

(i) Supply, Packing, Forwarding, and Transportation up to respective project site including Inland Transit insurance of Containerized Battery Storage, Battery inverters/PCU, Energy Management Systems (EMS).

(ii) Design & Engineering of BESS and Integration of BESS and EMS with Grid and BoS Infra.

(iii) Associated warranty, Comprehensive O&M and Insurance of above Equipments for project life.

(iv) Supervision of Installation/ Erection of BESS and integration work/Testing of BESS (Battery, PCS and EMS) with Grid and evacuation/BoS Infra as per RLDC.

(v) Commissioning of BESS (Battery, PCS and EMS).

(vi) Supply of Mandatory Spare.

The detailed scope of work is as defined in the bidding document No.: **RE-CS-5814-005-9**.

**3.0 NTPC intends to finance the subject package through Own Resources/Borrowings.**

**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:**

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ETS Portal Tender Search Code (TSC)	<b>NTPC-2024-TN000007</b>	
IFB Date	12.06.2024*	
Period of Downloading of Bidding Documents	From 18.06.2024 to 02.07.2024 (up to 17:30 HRS (IST))	
Pre Bid Conference and Last Date for receipt of queries from prospective Bidders	03.07.2024	
Last date and time for receipt of bids comprising both Techno-Commercial Bid and Price Bids bid	18.07.2024	14:30:00 (IST)
Date & Time of opening of Techno-Commercial Bid	18.07.2024	15:30:00 (IST)
Cost of Bidding Documents INR	<b>INR (₹) 22,500/-</b> (Indian Rupees Twenty-Two Thousand Five hundred only) for Indian Bidders  OR  <b>USD (\$) 500/-</b> (US Dollars Five Hundred only) for Foreign Bidders	

\*Note: Bidders are advised to visit the ETS portal (<https://www.bharat-electrontender.com>) for updated bidding schedule of the Tender, if any.

**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 as mentioned below in the form as stipulated in the Bidding Documents:

**(a) INR (₹) 10 Crore only [Indian Rupees Ten Crore only] for Indian Bidders**

**OR**

**(b) USD (\$) 1,193,900/- only [United States Dollars One Million One Hundred Ninety Three Thousand Nine 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 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 IN A SEPARATE SEALED ENVELOPE.**

(Bidders who are unable to send the Original Bank Guarantee in physical form at the tender opening location, may adopt procedure given in Bidding documents)

**6.0 QUALIFYING REQUIREMENTS FOR BIDDERS:**

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In addition to the requirements stipulated under section Instruction to Bidder (ITB), 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.

### 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 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 and 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/ petrochemical/ fertilizer/cement/coal mining including coal handling plant and/ or any other process industry, of a value of **INR 1650 Million** (Indian Rupees One thousand six hundred and fifty 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:

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- 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.
- 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.
- i. "For the value of reference work in clause 1.4(i) indicated in foreign currency, the exchange rate as on 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."

### **2.0 FINANCIAL CRITERIA**

- 2.1** The average annual turnover of the Bidder, should not be less than **INR 1650 Million** (Indian Rupees One thousand six hundred and fifty million Only or in equivalent foreign currency, during the preceding three (03) 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.

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**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:

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 three (03) 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. For the 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.

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**7.0** NTPC 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 Limited**”, Payable 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:

(a) If the cost of the bidding documents to be paid in **INR**

Account Number	52142904702
IFSC Code	SBIN0020511
Name of the Bank	State Bank of India
Branch Code	20511
Address	Scope Complex Lodhi Road Branch, Ground Floor, Core-6 Scope Complex, Delhi-110003

(b) If the cost of the bidding documents to be paid in **USD**

Account Number	10813608669
IFSC Code	SBIN0017313
SWIFT Code	SBININBB824
Name of the Bank	State Bank of India
Branch Code	17313
Address	State Bank of India, CAG Branch, 5th Floor, Redfort Capital, Parsvnath Towers, Bhai Veer Singh Marg, Gole Market, New Delhi – 110 001

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 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:  
ETS Organization ID:  
UTR Reference:  
Amount:  
Date of Transfer:  
Transferor Bank:

(Signature of Bidder with Seal)

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- 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-electrontender.com> with Tender Search Code **NTPC-2024-TN000007**

Interested bidders are required to ensure that they have downloaded the official copy of bidding documents against Tender Search code- **NTPC-2024-TN000007** from website of ETS before closure of Bid Sale Period. If only free copy of Bidding Documents is 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.**

- 8.3** Issuance of Bid Documents to any Bidder shall not construe that such Bidder is considered to be qualified. Bids shall be submitted online. Bidder shall furnish hard copy of Bid Security and other documents as detailed in Bidding Documents before the stipulated bid submission closing date and time at the address given below.
- 8.4** For foreign bidders, please refer **Annexure-I** to IFB regarding procedures regarding Digital Signature for Foreign Vendor.
- 9.0** Transfer of Bidding Documents purchased by one intending Bidder to another is not permissible.
- 10.0** 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.*

### **11.0 ADDRESS FOR COMMUNICATION**

Addl. General Manager (RE-CS) / Sr Manager (CS)  
NTPC 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- 9427110744 / +91-9650992805  
E-Mail: [ghananjaymohapatra@ntpc.co.in](mailto:ghananjaymohapatra@ntpc.co.in) / [hemants@ntpc.co.in](mailto:hemants@ntpc.co.in) /  
[kunalprasad@ntpc.co.in](mailto:kunalprasad@ntpc.co.in)

Corporate Identification Number: L40101DL1975GOI007966, Website: [www.ntpc.co.in](http://www.ntpc.co.in)

**ANNEXURE TO INVITATION FOR BIDS****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; The information is 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.*



# NTPC Limited

**Project: NTPC-Gadarwara and NTPC-Solapur**

**Package: BESS Main Package for development of 250MW/500MWh Standalone BESS at NTPC-Gadarwara and NTPC-Solapur.**

**Bidding Documents No: RE-CS-5814-005-9**

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Salient Technical Features of the equipment/system/services covered in the Bidding Documents are mentioned below. These Salient Technical Features are mentioned only to facilitate the prospective bidders to prima facie understand the requirements under the tender and shall not in any way limit or alter the scope of work and technical features/specification of equipment/system/services covered in the Bidding Documents. Detailed provisions in regard of scope of work and technical features/specification of equipment/system/services, contained in the Bidding Documents shall be final and binding.

## **(A) Salient Technical Features**

The BESS AC capacity at NTPC-Gadarwara -150MW/300MWH and BESS AC capacity at NTPC-Solapur-100MW/200MWh at 132kV level (Grid) of NTPC Thermal Plant with following salient technical details.

- a) Project Life: -12 years
- b) 2 cycle per day. Each Cycle for 2 hours.
- c) Allowed 2.5% Degradation (MWH)per year.
- d) Nominal Round trip Efficiency at POI (132kV) = 80% and above.

The scope of the package shall consists of

**(i) Supply, Packing, Forwarding, and Transportation up to respective project site including Inland Transit insurance** of Containerized Battery Storage, Battery inverters/PCU, Energy Management Systems (EMS).

(ii) Design & Engineering of BESS and Integration of BESS and EMS with Grid and BoS Infra.

(iii) Associated warranty, Comprehensive O&M and Insurance of above Equipments for project life.

(iv) Supervision of Installation/ Erection of BESS and integration work/Testing of BESS (Battery, PCS and EMS) with Grid and evacuation/BoS Infra as per RLDC.

(v) Commissioning of BESS (Battery, PCS and EMS).

(vi) Supply of Mandatory Spare.

Note: The detailed scope of work is as defined in the bidding document