

**NTPC GREEN ENERGY LIMITED**

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

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

**NOTICE INVITING TENDER (NIT)**

**SECTION-I**

**FOR**

**REVISED GRID COMPLIANCE SYSTEM STUDY IN NTPC AND NGEL SPV PLANT(S).**

**(Domestic Competitive Bidding)**

**NIT No: 9900258912**

**Date: 29.05.2023**

**Bidding Document No: RE-CS-5789-004-9**

**1.0 NTPC Green Energy Limited (NGEL) invites online bids from eligible bidders on Single Stage Two Envelope (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) for REVISED GRID COMPLIANCE SYSTEM STUDY IN NTPC AND NGEL SPV PLANT(S)**

**2.0 BRIEF SCOPE OF WORK**

***The brief scope of work for the subject package interalia includes the following:***

1. All the study(s) /report(s) shall be carried out as per the detailed scope mentioned in Technical Specification and Bidder shall follow the "Report of the Working Group in respect of Data Submission Procedure and Verification of Compliance to CEA Regulations on Technical Standards for Connectivity to the Grid by RE Generators July 2022" and amendments thereof for conducting grid compliance system study.
2. All the study(s) /report(s) shall be submitted to the NTPC/NGEL for review and onwards submission to the RLDCs for review(s).
3. As per the observation(s)/comment(s) by the RLDCs or NTPC/NGEL during review(s), the study(s) /report(s) shall be revised by the bidder. Bidder has to ascertain that all the queries of NTPC/NGEL/CTU/RLDC with respect to submitted document(s) are answered to their satisfaction.
4. Bidder's Generic RMS study models shall be compatible with PSS/E version 34.4 and above.
5. Bidder's EMT study models shall be compatible with PSCAD version 4.6 and above with Intel Visual FORTRAN version 12 or higher compiler.
6. Bidder's Power quality assessment study model shall also be submitted in PSCAD. If user written/defined models (UDM) are being provided, then submission of the source code and compiling procedure along with the model is mandatory.
7. Bidder's study Model shall work for a range of dynamic simulation solution parameters rather than for specific settings only.
8. Bidder shall submit associated files (PSSE/PSCAD/Python/.sld file/.dvr/.out/.plb etc.) including python recording/sequence of events simulated for a particular study/case for validation of study analysis results.
9. All study/report/models/documents required for conducting the grid compliance system studies for NGEL and NTPC plant(s) as per detailed technical Specifications, applicable technical standards, regulation(s), guidelines, observations etc. unless otherwise specifically mentioned in the exclusions from

scope of work.

10. The list of NTPC/NGEL SPV plant(s) for conducting the revised grid compliance system study as per the above brief Scope of work and other technical specification/bidding documents is as mentioned below:

SI.No.	NAME OF THE PROJECT	PLANT CAPACITY (MW)
1	<i>NTPC Gandhar</i>	20
2	<i>NTPC Auraiya Floating</i>	20
3	<i>NTPC Solapur</i>	23
4	<i>NTPC Simhadri Floating</i>	25
5	<i>NTPC Kawas</i>	56
6	<i>NTPC Kayamkulam-Floating</i>	92
7	<i>NTPC Ramagundam Floating</i>	100
8	<i>NGEL Devikot Solar- I &amp; II</i>	240
9	<i>NGEL Shimboo Ka Burj Solar I</i>	250
10	<i>NGEL Fatehgarh</i>	296
11	<i>NGEL Nokhra</i>	300
12	<i>NGEL Shimboo Ka Burj Solar II</i>	300

The detailed scope of work is as defined in the bidding document No.: **RE-CS-5789-004-9**

- 3.0** NGEL intends to finance the subject package through Own Resources/ commercial 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:

NIT No.	9900258912
Source of NIT	NGEL, Greater NOIDA
Period of Downloading of Bidding Documents	29.05.2023 to 14.06.2023.
Last Date for receipt of queries from prospective Bidders	05.06.2023
Last Date and Time for receipt of bids comprising both Techno-Commercial Bid and Price Bid	14.06.2023, 14:00 hrs
Date & Time of opening of Techno-Commercial Bid	15.06.2023, 14:30
Price Bid Opening Date & Time	Shall be auto intimated to qualified bidders after evaluation of Techno-Commercial Bid through GePNIC Portal.
Tender Fee	INR 2,250 (Indian Rupees Two Thousand Two hundred and fifty only)
Bid Security/EMD	INR 2,00,000/- <b>(Indian Rupees Two Lakh</b>

	<b>only)</b>
MSE Benefit	<b>Applicable. (relevant provision in the Bidding document may be referred). MSE (Micro &amp; Small enterprises) bidders are exempted for paying Tender Fees and EMD on submission of valid MSE certificate  Only Udyam Registration Certificate is acceptable for EMD exemption</b>
Contract Classification	Service
Location of work	Respective NTPC and NGEL Solar Projects

No Queries from Bidders, whatsoever, shall be entertained by NGEL beyond the last date of receipt of Queries as specified above.

As per provisions of Bidding Documents, the Bidders shall submit “Techno-Commercial Proposal” and “Price Proposal” online (<https://eprocurmentpc.nic.in/nicgep/app>), within the bid submission date and time as mentioned above. Only Techno-Commercial proposals will be opened on the date and time mentioned above.

Note: For any corrigendum and extension of date of bid submission, please visit the website <https://eprocurmentpc.nic.in>

- 5.0 All bids must be accompanied by Bid Security for an amount 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 (ONLY IN CASE WHERE SECURITY BID IS SUBMITTED THROUGH DD/BG) SHALL BE REJECTED BY THE EMPLOYER AS BEING NON-RESPONSIVE AND RETURNED TO THE BIDDER WITHOUT BEING 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 SEPARATE SEALED ENVELOPE.**

## 6.0 Qualifying Requirements for Bidders:

In addition to the requirements stipulated under section Instruction to Bidder (ITB), the Bidder should also meet the qualifying requirements stipulated hereunder in **Clause 6.1.0 Technical Criteria and Clause 6.2.0 Financial criteria.**

### 6.1.0 TECHNICAL CRITERIA

The Bidder should have valid license of study software PSS/E 34.4 or above version and PSCAD 4.6 or above version and have successfully conducted the grid compliance system study for at least one ISTS connected Solar/Wind Power project(s) having capacity of 20 MW or more located in India in last two (02) years as on date of bid opening

**Note: -**

- Bidder shall submit the certificate of successful completion as evidence of meeting the essential qualification criteria from the project owner.
- The bidder shall submit the valid software license certificate(s) as evidence of meeting the essential qualification criteria.

- c. In case the award for the reference works has been received by the Bidder either directly from owner of plant/substation or any other intermediary organization, a certificate from such owner of plant/substation 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.

## 6.2.0 FINANCIAL CRITERIA

- 6.2.1 The average annual turnover of the Bidder, should not be less than the financial figure as mentioned in the formula below, for any three (03) financial years out of preceding five (05) financial years as on the date of techno-commercial bid opening.

$$\text{Average Annual Turnover (in Lakh INR)} = C_1 \times Q_1 + C_2 \times Q_2 + C_3 \times Q_3 + C_4 \times Q_4 + C_5 \times Q_5 + C_6 \times Q_6 + C_7 \times Q_7 + C_8 \times Q_8 + C_9 \times Q_9 + C_{10} \times Q_{10} + C_{11} \times Q_{11} + C_{12} \times Q_{12}$$

Where,

Abbreviation	Meaning
C <sub>1</sub>	INR 15 Lakh for NTPC Gandhar 20 MW Solar
C <sub>2</sub>	INR 15 Lakh for NTPC Auraiya Floating Solar 20 MW
C <sub>3</sub>	INR 15 Lakh for NTPC Solapur 23 MW Solar
C <sub>4</sub>	INR 15 Lakh for NTPC Simhadri Floating Solar 25 MW
C <sub>5</sub>	INR 17 Lakh for NTPC Kawas 56 MW Solar
C <sub>6</sub>	INR 18 Lakh for NTPC Kayamkulam-Floating Solar 92 MW
C <sub>7</sub>	INR 18 Lakh for NTPC Ramagundam Floating Solar 100 MW
C <sub>8</sub>	INR 20 Lakh for NGEL Devikot Solar- I & II 240 MW
C <sub>9</sub>	INR 20 Lakh for NGEL Shimboo Ka Burj Solar-I 250 MW
	INR 21 Lakh for NGEL Fatehgarh Solar 296 MW

C <sub>10</sub>	
C <sub>11</sub>	INR 22 Lakh for NGEL Shimboo Ka Burj Solar-II 300 MW
C <sub>12</sub>	INR 22 Lakh for NGEL Nokhra Solar 300 MW
Q <sub>1</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Gandhar 20 MW Solar, else Value is 0
Q <sub>2</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Auraiya Floating Solar 20 MW, else Value is 0
Q <sub>3</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Solapur 23 MW Solar, else Value is 0
Q <sub>4</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Simhadri Floating Solar 25 MW, else Value is 0
Q <sub>5</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Kawas 56 MW Solar, else Value is 0
Q <sub>6</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Kayamkulam-Floating Solar 92 MW, else Value is 0
Q <sub>7</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NTPC Ramagundam Floating Solar 100 MW, else Value is 0
Q <sub>8</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NGEL Devikot Solar- I & II 240 MW, else Value is 0
Q <sub>9</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NGEL Shimboo Ka Burj Solar-I 250 MW, else Value is 0
Q <sub>10</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of

	NGEL Fatehgarh Solar 296 MW, else Value is 0
Q <sub>11</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NGEL Shimboo Ka Burj Solar-II 300 MW, else Value is 0
Q <sub>12</sub>	Value is 1 if Bidder has quoted for WORK PACKAGE to CONDUCT REVISED GRID COMPLIANCE SYSTEM STUDY of NGEL Nokhra Solar 300 MW, else Value is 0

In case a Bidder does not satisfy the average annual turnover criteria, stipulated at Clause 6.2.1 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.

**6.2.2 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.

**6.2.3 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 6.2.0:**

- 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 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** 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 in this tender 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.

- 8.0** *'Class-I local suppliers' and 'Class-II 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.'*

- 9.0** The bidding document is available online. A complete set of Bidding Documents may be downloaded by any interested Bidder from the NTPC e-tendering portal website <https://eprocurementpc.nic.in> (GePNIC Portal). The Bidder would be required to register on the website.

**9.1** First time users are required to register themselves on GePNIC Portal only. First time users not allotted any vendor code by NTPC, should send a copy of the registration details to the e- mail address specified in this NIT under Address for Communication with following details at least three working days prior to Technical Opening Date:

- a) Request on the letter head of the Company

- b) Address Proof
- c) Copy of GST Registration Certificate & PAN Card,
- d) Email ID and Contact No.
- e) Name and Designation of the contact person
- f) Cancelled cheque & E.F.T form duly verified by bank

**Note:** No Hard Copy of bidding documents shall be issued.

- 10.0** Interested Bidders can pay for the cost of documents as mentioned above in the form of Electronic transfer/NEFT Payments in the following account details of NGEL:

<b>Account name</b>	NTPC Green Energy Ltd
<b>Bank Name</b>	<b>Axis Bank</b>
<b>Type of Account</b>	Current
<b>Bank Account No</b>	922020025003612
<b>IFSC Code</b>	UTIB0000022
<b>Branch address</b>	Branch address - B-2 & B-3, Sector 16, Noida, U.P. – 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 email ID to the concerned nodal officers of NGEL 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 NTPC e-tendering portal website <https://eprocurementpc.nic.in> (GePNIC Portal) (FEE Cover) in the following format:

<b>Declaration for Payment of Cost of Bidding Document</b>
Tender Search Code: Bidder Name: UTR Reference: Amount: Date of Transfer: Transferor Bank:
(Signature of Bidder with Seal)

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

- 11.0** NGEL 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.
- 12.0** 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 Bid Security, Pass Phrase and Power of Attorney separately offline as detailed in Bidding Documents before the stipulated bid submission closing date and time at the address given below.
- 13.0** Transfer of Bidding Documents purchased by one intending Bidder to another is not permissible.



**14.0 Address for communication:**

Dy. General Manager (Renewable Energy-Contract Services) /Addl. General Manager  
(Renewable Energy-Contract Services,  
NTPC Green Energy Ltd,  
4th Floor, NETRA Building,  
E-3, Ecotech-II, Udyog Vihar, Greater Noida-201306,  
Distt. Gautam Budh Nagar, (UP), India  
Telephone No. +91-120-2356517/2356525  
Email: [abhishekkumar02@ntpc.co.in](mailto:abhishekkumar02@ntpc.co.in)/[vishaljain@ntpc.co.in](mailto:vishaljain@ntpc.co.in) or at office.

Corporate Identification Number: U40100DL2022GOI396282, Website: [www.ntpc.co.in](http://www.ntpc.co.in)

**Websites:**<https://eprocurementpc.nic.in>, [www.ntpctender.com](http://www.ntpctender.com) or [www.ntpc.co.in](http://www.ntpc.co.in)