

# INVITATION FOR BIDS

**NTPC VIDYUT VYAPAR NIGAM LIMITED**  
(A wholly owned Subsidiary of NTPC Limited)

**CONTRACT & MATERIALS, NOIDA**

## **INVITATION FOR BIDS (IFB) FOR**

**IFB for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and 10 years O&M of 03 MW Grid Connected Rooftop Solar PV Project at IIT Jodhpur**

**(Domestic Competitive Bidding)**

**Bidding Document No.: NVVN/ C&M/RE-68/2020-21**

**Date: 14-12-2020**

1.0 **NTPC VIDYUT VYAPAR NIGAM LIMITED (NVVN)** invites **online** Bids from eligible bidders on 'Single Stage Two Envelope' bidding basis (Envelope-I: Techno-Commercial Bid & Envelope-II: Price Bid) for aforesaid Package as per the scope of work briefly mentioned hereinafter:

### 2.0 **BRIEF SCOPE OF WORK**

The scope of the proposal for “**IFB for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning and 10 years O&M of 03 MW Grid Connected Rooftop Solar PV Project at IIT Jodhpur**” shall be on the basis of a single point responsibility, completely covering the following activities and services in respect of all the equipment specified and covered under the specifications and read in conjunction with “Technical Specifications”, Section –VI of IFB.

#### **1. Details of work**

- a) The successful bidder shall be exclusively responsible for preparation of Detailed Project Report (DPR) containing all aspects like design, engineering, procurement, testing & commissioning and all other relevant activities like rooftop strength test, water arrangements, electricity, transportation required for setting up of Solar PV Plant and for O&M activities for 10 years.
- b) Designing, engineering, supply, installation, testing and Commissioning of Project as per standard design and specifications and connecting up to existing Mains/ACDB and interfacing internal electrical loads with licensee's network/electrical loads with Comprehensive O & M for period of Ten (10) Operational Years for Sale of Solar Power. The successful Bidder would have to take approval for the interfacing the Project with Grid/Electrical Loads of every location from distribution licensee/ CEIG, as applicable.
- c) The design, engineering, manufacture, supply, installation, testing and performance of the equipment shall be in accordance with latest appropriate IEC/Indian Standards as per Technical Specification (Section VI) mentioned in IFB.
- d) Co-ordination with IIT Jodhpur i.e. Procurer ( for realization of bills. Remote monitoring of the

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generation of Solar Power shall be done through appropriate software .Provision for mobile app based display shall be made for all the data display to NVVN and IIT Jodhpur.

- e) Detailed planning of time bound smooth execution of Project;
- f) Performance testing for Successful Commissioning of the Project as mentioned in Technical Specification (Section VI) of IFB;
- g) Comprehensive O &M of the Project for Ten (10) Operational Year to assure faultless operation, and inventory maintenance; Supply of Power from Commissioning to Ten (10) Operational Years;
- h) Coverage of risk liability of all personnel associated with implementation and realization of the Project;
- i) The Bidder shall be responsible to maintain sufficient inventory of the spare parts to ensure that the Project is functional during the O&M period;
- j) The Bidder shall be responsible for seeking all sort of approvals from CEIG/DisCom/or any other State Utilities/Agencies.

Detailed Scope of work has been specified in the Technical Specification (Section VI) of IFB.

- 3.0 NVVN intends to finance subject Package through External Commercial Borrowings/ Domestic Commercial Borrowings / Own sources.
- 4.0 Detailed Specification, Scope of Work and Terms & Conditions are given in the Bidding Documents, which are available for examination and Sale at our GePNIC e-procurement portal <https://eprocurementpc.nic.in> as per following schedule.

Issuance of IFB	14-12-2020 from 17:00 Hrs (IST)
Bidding Document Sale Date & Time	14-12-2020 from 17:00 Hrs (IST)
Last Date for receipt of queries from bidders (if any) *	26-12-2020 till 17:00 Hrs (IST)
Bid Submission End Date & Time	05-01-2021 till 17:00 Hrs (IST)
Bid Opening Date & Time for Techno-Commercial Bid	06-01-2021 at 15:00 Hrs (IST)
Price Bid Opening Date & Time	Shall be intimated separately by NVVN.
Cost of Bidding Document	INR 5625/-(Indian Rupees Five Thousand Six Hundred and Twenty Five only)

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

- 5.0 All bids must be accompanied by Bid Security for an amount of **INR 20,00000/- (Indian Rupees Twenty Lakhs only)** in the form as stipulated in the Bidding documents. The same shall be submitted offline in physical form prior to bid submission end date and time.

**ANY BID NOT ACCOMPANIED BY AN ACCEPTABLE BID SECURITY IN SEPARATE SEALED ENVELOPE SHALL BE REJECTED BY THE EMPLOYER AS NON-RESPONSIVE AND SHALL NOT BE OPENED.**

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 and Clause 6.2:

6.1 **TECHNICAL CRITERIA**

- 6.1.1 The Bidder should have designed, supplied, erected/ supervised erection and commissioned/ supervised commissioning of Solar Photo Voltaic (SPV) based grid connected power plant(s) of cumulative installed capacity of 800 Kw or higher, out of which at least one Roof Top Solar Photo Voltaic plant should have been of 100 kW or higher capacity. The reference plant of 100 kW or higher capacity must have been in successful operation for at least six (6) months prior to Techno Commercial Bid Opening Date.

OR

- 6.1.2 The Bidder should be a developer of Solar Photo Voltaic (SPV) based grid connected power plant(s) of cumulative installed capacity of 800 Kw or higher, out of which at least one Roof Top Solar Photo Voltaic plant should have been of 100 kW or higher capacity. The reference plant of 100 kW or higher capacity must have been in successful operation for at least six (6) months prior to Techno Commercial Bid Opening Date.

OR

- 6.1.3 (a) 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 40 Million (Indian Rupees Forty Million only) or more in a single project or single work respectively and the same should be in successful operation for at least one (1) year prior to Techno Commercial Bid Opening Date.

AND

- 6.1.3 (b) The Bidder should have executed at least one (1) Electrical Sub-station of 11 kV or above voltage level, consisting of equipment such as 11 kV or above voltage level circuit breakers

and Power transformer, either as developer or as EPC Contractor which should be in successful operation for at least one (1) year prior to Techno Commercial Bid Opening Date.

The works referred to clause 6.1.3 (a) & 6.1.3 (b) can be in same or different projects.

OR

- 6.1.4 The bidder should be an Indian company registered in India and should be Group company/Holding Company/Subsidiary company of a firm meeting the requirement (s) of Clause 6.1.1 or 6.1.2 or 6.1.3 above.

In such a case, Bidder shall furnish an Undertaking jointly executed by the firm qualified as per clause 6.1.1 or 6.1.2 or 6.1.3 and the Bidder along with its Bid for complete performance of the contract (in case of award) jointly or severally, as per the format enclosed in the Bid document failing which the Bidder's Bid is liable to be rejected.

Notes for Clause 6.1:

- a. The reference SPV based grid connected power plant of 100 kW or higher capacity should be at a single location developed by Bidder for itself or any other client.
- b. SPV based Roof Top/Floating Solar Power Project, which are Grid Connected shall also be considered eligible for QR purpose. In case of reference Roof Top Solar PV Plant of 100 Kw, the plant shall be considered which are installed at a single location within the same premises and may be at multiple buildings.
- c. Bidder shall submit certificate of successful completion and operation from the Owner.
- d. Projects executed by Bidder's group company, Holding Company or Subsidiary Company shall also be considered as Bidder's experience for meeting the QR, provided Bidder is an Indian company registered in India.
- e. 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 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.
- f. In case of developer as Bidder in clause 6.1.2 or 6.1.3, the documentary evidence (certified by Chartered Accountant) for value of executed reference work must be submitted by the Bidder.
- g. 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 Clause No. 6.1.3 means, such EPC Contractor is responsible for all the activities i.e. Design/Engineering, Procurement, Construction and Commissioning of a project/work.
- i. The portion of work related to power transformer such as supply and or installation

mentioned at cl. no. 6.1.3 (b) can either be done by EPC contractor by themselves or by the owner.

## 6.2 FINANCIAL CRITERIA

- 6.2.1 The average annual turnover of the Bidder, should not be less than INR 120 Million (Indian Rupees One Hundred and Twenty Million only) or in equivalent foreign currency during the preceding three (3) financial years.

In case a Bidder does not satisfy the average annual turnover criteria, stipulated above 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 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.

- 6.2.2 Net Worth of the Bidder as on the last day of the preceding financial year should not be less than 100% (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, 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% (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% 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:

- (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 as on the 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 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 date of Techno Commercial Bid Opening and the Certificate from a practicing Chartered Accountant certifying the financial parameters is not available.

**Notes for Clause 6.2:**

- a. Net worth means the sum total of the paid up share capital and free reserves. Free reserves mean 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 Techno Commercial Bid Opening date shall be used.

7.0 NVVN 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 A complete set of Bidding Documents may be downloaded from <https://eprocurentpc.nic.in> by any interested Bidder. Tender fee of ₹5625, in the form of a crossed A/C PAYEE DEMAND DRAFT / BANKERS CHEQUE / PAY ORDER in favor of "NTPC VIDYUT VYAPAR NIGAM LIMITED", Payable at NEW DELHI, is required to be submitted in a separately sealed envelope at the address mentioned in the bidding document, before the stipulated date & time of submission of the bid. For any assistance, please email to [nvvncontracts@ntpc.co.in](mailto:nvvncontracts@ntpc.co.in) or contact Manager (C&M) / AGM-C&M, NTPC VIDYUT VYAPAR NIGAM LIMITED, 2<sup>nd</sup> Floor, Core 5, Scope Complex, 7, Institutional Area, Lodi Road, New Delhi-110003.

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It is required by agency to register and follow the guidelines/FAQ provided in the e-portal <https://eprocurentpc.nic.in> for participating in the tender, BID is to be submitted online on that portal. Any amendment(s)/corrigendum/clarifications with respect to this Bid shall be uploaded on <https://eprocurentpc.nic.in> only. Bidder should regularly follow up for any Amendment/Corrigendum/Clarification on the above website.

**NOTE: No hard copy of Bidding Documents shall be issued**

- 9.0 Issuance of bid documents to any Bidder shall not construe that such bidder is considered to be qualified. Bids shall be submitted online and opened at the address given below in the presence of Bidder's representatives who choose to attend the bid opening. **Bidder shall furnish Tender Fee, Bid Security, No Deviation Certificate, Integrity Pact, Joint Undertaking (as applicable) and Power of Attorney separately offline** as detailed in Bidding Documents by the stipulated bid submission closing date and time at the address given below.
- 10.0 Transfer of Bidding Documents purchased by one intending Bidder to another is not permissible.
- 11.0 **Address for communication:**  
AGM (C&M) / Manager (C&M)  
NTPC VIDYUT VYAPAR NIGAM LIMITED  
2<sup>nd</sup> Floor, Core 5, Scope Complex, 7,  
Institutional Area, Lodi Road, New Delhi-110002  
e-mail: [nvvncontracts@ntpc.co.in](mailto:nvvncontracts@ntpc.co.in)  
Corporate Identification Number: U40108DL2002GOI117584,  
website: [www.eprocurentpc.nic.in](http://www.eprocurentpc.nic.in)
- 12.0 **Registered Office**  
  
NTPC VIDYUT VYAPAR NIGAM LIMITED,  
NTPC Bhawan, Core-7, SCOPE Complex,  
7, Institutional Area, Lodhi Road,  
New Delhi – 110003  
  
Corporate Identification Number: U40108DL2002GOI117584.  
Website: [www.nvvn.co.in](http://www.nvvn.co.in)
- 13.0 **Other Instructions**  
i. Please use 'Online Bidder Enrollment' link provided on portal <https://eprocurentpc.nic.in> (GePNIC) to register  
ii. Go through Help, FAQ etc. as provided on the above portal.  
iii. Class III digital signature (DSC) is required for submission of BID on above portal.  
iv. Important Note: It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of GePNIC.

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GePNIC Helpdesk Telephone: 24X7 Customer Support +91-120-4001 002/+91-120-4200 462/  
+91-120-4001 005/+91-120-6277 787

14. 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.