

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

CONTRACT & MATERIALS

INVITATION FOR BIDS (IFB)
FOR

Development of 0.5 MW (AC) Grid Connected RoofTop Solar PV Project at IIT Indore under
Net-metering
(Domestic Competitive Bidding)

Bidding Document No.: NVVN/ C&M/RE-169/2022-23

Date: 14.03.2023

1.0 NTPC Vidyut Vyapar Nigam Ltd (NVVN) invites online bids on Single Stage Two Envelope Basis (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) from eligible Bidders for aforesaid package, as per the scope of work briefly mentioned hereinafter

2.0 BRIEF SCOPE OF WORK

- 2.1. The Solar Photo Voltaic (PV) installation on Rooftop of various buildings of the IIT Indore shall be carried out preferably on shadow free area in such a way that the generation is maximized on each building suitable for installation of Solar PV power plants. The Bidder may also be allocated Ground or Elevated Structures for installation of Solar Plant. The final plant capacity shall be as per detailed approved engineering design of each of the building's rooftops. In case of requirement, permanent Staircase access has to be provided for each building where the Roof Top Solar PV plant has been installed or the staircase may be caged ladder type, having Mild Steel Stairs minimum width of 1.0 m & finished with primer & weather resistant enamel paint.
- 2.2. 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, security, transportation and determining potential capacity required for setting up of Solar PV Plants and for O&M activities for 10 years.
- 2.3. Designing, engineering, supply, installation, testing and Commissioning of various capacities of Project as per standard design and specifications and connecting up to existing Mains / ACDB and interfacing internal electrical loads of Project's License's network/electrical loads with Comprehensive O&M for period of Ten (10) Operational Years for Sale of Solar Power. The bidder would have to take approval for the interfacing the Project with Grid/Electrical Loads from distribution licensee/ CEIG, Net metering applicable. Comprehensive O&M for Ten (10) Operational Year shall be required for each of the Project. All materials, manpower, scaffolding materials, machinery tools and tackles, transportation & loading/unloading, packaging and unpackaging, safe storage etc. shall be provided by Contractor. Scope shall cover all type of transportation of materials inside the working site and man power etc. required to execute and complete the work.

Detailed scope of work is provided in the Technical Specification (Section VI) of bidding document.

- 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://eprocurmentpc.nic.in> as per following schedule

Issuance of IFB	14.03.2023
Bidding Document Sale Date & Time	From 14.03.2023 to 05.04.2023 upto 1700 Hrs. (IST)
Last Date for receipt of queries from bidders (if any) *	24.03.2023 18:00 Hrs
Bid Submission Start	From 25.03.2023
Bid Submission End Date & Time	Upto 05.04.2023 by 1700 Hrs. (IST)
Bid Opening Date & Time for Techno-Commercial Bid	06.04.2023 at 1500 Hrs. (IST)
Price Bid Opening Date & Time	Shall be intimated separately by NVVN.
Cost of Bidding Document	₹ 2250/- (Indian Rupees Two Thousand Two Hundred Fifty Only)

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

Note: Site survey is mandatory for all the bidders who are willing to participate in this tender. Submission of undertaking for site visit on bidder's letter head is mandatory. Bidders shall visit the site from 20th March 23 to 24th March 2023. It shall be planned accordingly and Last minute request for site visit shall not be entertained.

- 5.0 All Bids must be accompanied by a Bid Security for an amount of **Rs 5,00,000/- (Indian Rupees Five Lakh Only)** in the form as stipulated in the bidding documents, to be submitted offline (in a separate sealed cover) prior to date and time for online bid submission.

ANY BID NOT ACCOMPANIED BY THE REQUISITE BID SECURITY IN ACCEPTABLE FORM IN A SEPARATE SEALED ENVELOPE OR BIDS ACCOMPANIED BY BID SECURITY OF INADEQUATE VALUE SHALL BE REJECTED BY NVVN AS NON-RESPONSIVE AND SHALL BE RETURNED TO THE BIDDERS 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 EITHER IN SEPARATE SEALED ENVELOPE OR IN THE E-TENDERING PORTAL.

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 1.1 and Clause 1.2.

1.1 TECHNICAL CRITERIA

1.1.1 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 400 kWp or higher, out of which at least one Solar Photo Voltaic plant should have been of 100 kWp or higher capacity. The reference plant of 100 kWp or higher capacity must have been in successful operation for at least six (6) months prior to Techno Commercial Bid Opening Date.

OR

1.1.2 The Bidder should be a developer of Solar Photo Voltaic (SPV) based grid connected power plant(s) of cumulative installed capacity of 400 kWp or higher, out of which at least one Solar Photo Voltaic plant should have been of 100 kWp or higher capacity. The reference plant of 100 kWp or higher capacity must have been in successful operation for at least six (6) months prior to Techno Commercial Bid Opening Date.

OR

1.1.3 (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 25 Million (Indian Rupees Twenty Five 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

1.1.3 (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 1.1.3 (a) & 1.1.3 (b) can be in same or different projects.

- 1.1.4 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 1.1.1 or 1.1.2 or 1.1.3 above.

In such a case, Bidder shall furnish an Undertaking jointly executed by the firm qualified as per clause 1.1.1 or 1.1.2 or 1.1.3 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 1.1:

- a. The reference SPV based grid connected power plant of 100 kWp or higher capacity should be at a single location developed by Bidder for itself or any other client.
- b. SPV based Roof Top/Floating/Ground Mounted Solar Power Project, which are Grid Connected shall also be considered eligible for QR purpose.
- 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 1.1.2 or 1.1.3, 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. 1.1.3 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. 1.1.3 (b) can either be done by EPC contractor by themselves or by the owner.

1.2 FINANCIAL CRITERIA

1.2.1 The average annual turnover of the Bidder should not be less than INR 30 million (Indian Rupees 30 Million only) or in equivalent foreign currency during the preceding three (3) financial years.

1.2.2 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.

1.2.3 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

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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 1.2:

- 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 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. The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids.
- 9.0 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.
- 10.0 Being Works Contracts, MSE (Micro and Small Enterprises) benefits is not applicable for the subject tender.
- 11.0 A complete set of Bidding Documents may be downloaded from <https://eprocuretpc.nic.in> by any interested Bidder. Tender fee (₹ 2250/-), in the form of a crossed A/C PAYEE DEMAND DRAFT / BANKERS CHEQUE / PAY ORDER/NEFT/RTGS 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

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nvvncontracts@ntpc.co.in or Sr. Manager (Contracts), NTPC VIDYUT VYAPAR NIGAM LIMITED, Engineering Office Complex, Plot No. A-8A Sector 24, Block A, Noida, Uttar Pradesh 201301, Email: nvvncontracts@ntpc.co.in; Tel No: 0120-4948575

It is required by agency to register and follow the guidelines/FAQ provided in the e-portal <https://eprocurementpc.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://eprocurementpc.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

11.0 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 Bid Security, Tender Fee, Power of Attorney and Letter of Undertaking (if applicable) separately offline as detailed in Bidding Documents by the stipulated bid submission closing date and time at the address given below.

12.0 Transfer of Bidding Documents purchased by one intending Bidder to another is not permissible.

13.0 **Address for communication:**

Sr. Manager (C&M)
NTPC VIDYUT VYAPAR NIGAM LIMITED
Engineering Office Complex, Plot No. A-8A Sector 24, Block A,
Noida, Uttar Pradesh 201301
Email: nvvncontracts@ntpc.co.in
Corporate Identification Number: U40108DL2002GOI117584,
website: www.eprocurementpc.nic.in
Phone No: 0120-4948575

14.0 **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

15.0 Other Instructions

- i. Please use 'Online Bidder Enrollment' link provided on portal <https://eprocurementpc.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,

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and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of GePNIC.

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

Development of 0.5 MW (AC) Grid Connected RoofTop
Solar PV Project at IIT Indore

BIDDING DOCUMENT NO. NVVN/ C&M /RE-169 /2022-23
SECTION - I (IFB)