

INVITATION FOR BIDS



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

CONTRACTS SERVICES

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FOR

310 MW FLOATING AND GROUND MOUNTED SLAR PV PROJECT AT DVC RESERVOIRS

(Domestic Competitive Bidding)

IFB No.: NRE-CS-5785-004(EPC1)-9

Date: 22.02.2023

ETS Portal Tender Search Code: NTPCREL-2023-TN000006

Bidding Document No: NRE-CS-5785-004(EPC1)-9

1.0 NTPC Renewable Energy Limited (NTPC REL), on behalf of **Green Valley Renewable Energy Limited (GVREL),** a Subsidiary of NTPC REL in Joint Venture with Damodar Valley Corporation (DVC), invites online bids from eligible bidders on Single Stage Two Envelope (i.e., Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) basis for **310 MW Floating and Ground Mounted Solar PV Project at DVC Reservoirs.**

The bids are invited for the following blocks of Solar PV Projects of GVREL in this tender:

Block	Location	Capacity	Type
Block – II	Tilaiya	155 MW	Floating Solar PV
Block – IV	Panchet	75 MW	Floating Solar PV
Block – V	Panchet	80 MW	Floating Solar PV (30 MW) + Ground Mounted PV (50 MW)
TOTAL		310 MW	

Note: Block-I and Block-III shall be tendered separately.

2.0 BRIEF SCOPE OF WORK

- Design, engineering, manufacturing, supply, packing and forwarding, transportation, unloading storage, installation, testing and commissioning of Grid Connected Floating and Ground mounted Solar Photovoltaic plant including Open category PV modules.
- Site - Grading & Clearing of Vegetation (if required), Bathymetric Survey, Topographical survey, and Geotechnical Investigation.
- Design and Supply of floaters, Installation, anchoring, mooring, fixing of floaters for SPV panels including fixing of PV modules on floaters and interconnection of PV modules, providing pathways of FSPV system. Design and supply of floating inverter platform anchoring, mooring including electrical installations.
- Design and Construction of foundation & erection of Fixed Tilt based Module Mounting Structure (MMS) for Ground mounted SPV panels, including fixing of PV Modules on MMS and Interconnection of PV Modules.

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5. Construction of Inverter Station with Power conditioning unit on Ground/ Floating platforms and associated LT, HT switchgear and auxiliary system.
6. Arranging internal distribution of power supply and water supply for construction purposes. Construction power connection shall be provided in one point in each plot and one water connection shall be provided for each 50MW by the owner (As per the Requirement).
7. All associated EPC electrical required for interfacing with grid (i.e., transformers, panels, protection system, cables, metering at 33kV level, earthing and lightning protection, etc.) (Terminal point- 33 KV H-Pole adjacent to water body).
8. All associated civil works required for the successful commissioning and operation of the project (i.e. Floater launching platforms, approach & Internal roads & Drains to various facilities, water barricading, one no. motorboat / block, 1 watchtower / block, High mast, Fencing, parking, etc.) as per General Layout and Topography, any internal / temporary fencing, security cabin etc. The main access roads to the individual plots and main drains shall be in Owner's scope. O&M platforms for Boat approach and servicing inverter platforms.
9. Supply & installation of SCADA (for remote monitoring and control of Inverters with all hardware & software and complete set of Weather Monitoring Station including cloud cover), associated equipment at identified location in Main Control Room of 33/132kV or 33/220kV at owner's GIS Substations. Supply of spare port at SCADA Switch/Controller for integration with Power Plant Controller provided by Owner.
10. Submission of all technical details for conducting Grid connectivity compliance as per latest CEA Technical standard for connectivity to Grid and transmit Solar plant data to LDC as per telemetry requirement.
11. Module cleaning system including supply and installation of all accessories.
12. Comprehensive O&M of SPV Plant along with electrical equipment, consumables, and spare parts for a period of Three years and AMC of major equipments from the date of commissioning of full Project capacity.
13. Supply of Mandatory Spares.

The detailed scope of work is as defined in the bidding document No.: **NRE-CS-5785-004(EPC1)-9**.

3.0 GVREL 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-2023-TN000006
IFB Date	22.02.2023
Period of Downloading of Bidding Documents	From 01.03.2023 to 15.03.2023 (till 17:00 HRS)

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Pre Bid Conference and Last Date for receipt of queries from prospective Bidders	17.03.2023	
Last Date and Time for receipt of bids comprising both Techno-Commercial Bid and Price Bid	31.03.2023	15:00:00 (IST)
Date & Time of opening of Techno-Commercial Bid	31.03.2023	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 the amount as per below table in the form as stipulated in the Bidding Documents:

Quoted Block(s)*	Bid Security Amount (INR)	
	in figures	in words
Block-IV (75 MW) OR Block-V (80 MW)	5,00,00,000/-	Indian Rupees Five Crore only
Block-II (155 MW) OR Block-IV + Block-V (155 MW)	10,00,00,000/-	Indian Rupees Ten Crore only
Block-II + Block-IV (230 MW) OR Block-II + Block-V (235 MW) OR Block-II + Block-IV + Block-V (310 MW)	20,00,00,000/-	Indian Rupees Twenty Crore only

**** Blocks are defined as per table at Clause 1.0 above.***

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 SHALL SUBMIT THE PROOF OF E-PAYMENT OF BID SECURITY IN 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

In addition to the requirements stipulated under section Instruction to Bidder (ITB), the Bidder should also meet the qualifying requirements stipulated hereunder in Clause 1.0 and 2.0:

1.0 TECHNICAL CRITERIA

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 40 MWp or higher, out of which at least one plant should have been of 10 MWp or higher capacity. The reference plant of 10 MWp or higher capacity must have been in successful operation for at least six (6) months prior to the date of techno- commercial bid opening.

OR

1.2 The Bidder should be a developer of Solar Photo Voltaic (SPV) based grid connected power plant(s) of cumulative installed capacity of 40 MWp or higher, out of which at least one plant should have been of 10 MWp or higher capacity. The reference plant of 10 MWp or higher capacity must have been in successful operation for at least six (6) months prior to the date of techno-commercial bid opening.

OR

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 minimum value of INR 200 Crores (Indian Rupees Two Hundred Crores Only) , in a single project or single work and the same should be in successful operation for at least one (1) year prior to the date of techno-commercial bid opening.

AND

(b) The Bidder should have executed at least one (1) Electrical Substation of 33 kV or above voltage level, consisting of equipment such as 33kV 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 the date of techno-commercial bid opening.

The works referred at Clause **1.3 (a) & 1.3 (b)** can be in same or different projects.

OR

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 or 1.2 or 1.3 above. In such a case, Bidder shall furnish an Undertaking jointly

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executed by the firm qualified as per clause 1.1 or 1.2 or 1.3 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.

Notes for Clause 1.0:

- a) The reference SPV based grid-connected power plant of 10 MWp or above capacity should be at a single location developed by Bidder for itself or any other client.
- b) SPV based Roof-top/Floating solar power projects, which are grid connected, shall also be considered eligible for QR purposes.
- c) For clause 1.1 & 1.3, bidder shall submit certificate of successful completion and operation from the Owner. However, if bidder in clause 1.3 is a developer, certificate of successful commissioning of the project issued from Government Renewable Nodal Agency/Government Enterprise/ Discom/ Electricity Board etc. and evidence of successful operation from intermediary procurer/ procurer/Discom/ Electricity Board etc. shall be submitted.
- d) For Clause 1.3, bidder shall submit documentary evidence for the value of the project certified by a Chartered Accountant.
- e) Direct/Indirect Order
The bidder shall also be considered qualified in case the award for executing the reference work has been received by the bidder either directly from the owner of the plant or any other intermediary organization. In such a case, a certificate from such owner of plant or any other intermediary organization shall be required to be furnished by the bidder along with its techno- commercial bid in support of bidder's claim of meeting the qualification requirement as per clause 1.1 and 1.3 above. Bidder shall also submit a certificate of successful completion and operation from the Owner.
- f) For Clause 1.2, bidder shall submit certificate of successful commissioning of the project issued from Government Renewable Nodal Agency/ Government Enterprise/ Discom/Electricity Board etc.
- g) For Clause 1.2, bidder shall submit evidence of successful operation from intermediary procurer/ procurer/Discom/ Electricity Board etc.
- h) Developer means an entity who has either executed or got executed the work/ project as owner of industrial projects.
- i) The execution of industrial project as EPC Contractor under Clause No. 1.3 means, such EPC Contractor is responsible for all the activities i.e., Design/Engineering, Procurement, Construction (with/without civil works) and Commissioning of a project/work.
- j) The portion of work related to power transformer such as supply and or installation mentioned at cl. no. 1.3 (b) can either be done by EPC contractor by themselves or by the owner.
- k) EPC projects with solar PV module supplied by developer/owner as free issue item to EPC contractor shall also be considered eligible for route 1.1 of QR.

2.0 FINANCIAL CRITERIA

- 2.1 The average annual turnover of the Bidder should not be less than INR 200 Crores (Indian Rupees Two Hundred Crores Only), for any three financial years out of the preceding five financial years as on date of techno commercial bid opening.

In case a Bidder does not satisfy the annual turnover criteria, stipulated above on its own, its Holding Company would be required to meet the stipulated turnover requirements as

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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.

- 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, 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.

- 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 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 mean all reserves credited out of the profits and share premium account but does not

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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 the value of industrial project in Clause 1.3(a) and / or the annual turnover indicated in foreign currency, the exchange rates 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 can be submitted in the form of a crossed account Payee Demand Draft in favour of "**Green Valley Renewable Energy Limited**", Payable at **Noida** at the address mentioned at para no.12.0 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 Renewable Energy Limited:

Account Number	922020050283854
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:
ETS Portal Organization ID:
UTR Reference:

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Amount:
Date of Transfer:
Transferor Bank:

(Signature of Bidder with Seal)

9.1 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 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.

9.2 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-electronictender.com> with Tender Search Code **NTPCREL-2023-TN000006**.

*Interested bidders are required to ensure that they have downloaded the official copy of bidding documents against Tender Search code- **NTPCREL-2023-TN000006** from website of ETS before closure of Bid Sale Period.*

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

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

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

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 (CS)/ Senior Manager (CS)

Contracts Services

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4th Floor, NETRA Building

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