

INVITATION FOR BIDS



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

CONTRACTS SERVICES

INVITATION FOR BIDS (IFB) FOR

BALANCE OF SYSTEM PACKAGE FOR 1255 MW SOLAR PV PROJECT(S) AT KHAVDA RE POWER PARK, RANN OF KUTCH, GUJARAT (3*315MW+1*310MW)

(Domestic Competitive Bidding)

IFB No.: NRE-CS-5779-004(BOS)-9

Date: 02.06.2022

ETS Portal Tender Search Code: NTPCREL-2022-TN0000011

Bidding Document No: NRE-CS-5779-004(BOS)-9

1.0 NTPC Renewable Energy Limited (NTPC REL) 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 BALANCE OF SYSTEM PACKAGE FOR 1255 MW SOLAR PV PROJECT(S) AT KHAVDA RE POWER PARK, RANN OF KUTCH, GUJARAT (3*315MW+1*310MW)

2.0 Brief Scope of Work:

1. Design, engineering, manufacturing, supply, packing and forwarding, transportation, unloading storage, installation, testing and commissioning of Solar Photovoltaic plant **excluding Supply of Solar PV modules (PV Modules shall be supplied by NTPC REL as Free Issue item).**
2. Receipt, unloading at site, storage, installation, testing and commissioning of Solar PV Modules.
3. Site - Grading & Clearing of Vegetation (if required), Topographical survey (Optional), Geotechnical Investigation (Optional).
4. Design and Construction of foundation & erection of Module Mounting Structure (MMS) with **Tracker based Technology** for SPV panels, including fixing of PV Modules on Tracker and PV Modules interconnection.
5. Arranging power supply and water supply for construction purposes.
6. Construction of Pre-Engineered type Inverter room (if applicable) with Power conditioning unit associated LT and HT switchgear. In case of String Inverter, Construction of Pre-Engineered type HT Switchgear room.
7. All associated electrical and civil works required for interfacing with grid (i.e. transformers, panels, protection system, cables, metering at 33kV level, grid compliance study as per regulation etc.), evacuation of power to **33kV Switchgear of 33/400kV GIS Substation provided by Owner through 33kV cable and placement of SCADA, PPC panel and associated equipment at**

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identified location in Main Control Room of 33/400kV GIS Substation. (33kV AC Cable from Inverter Room shall be supplied by NTPC REL as Free Issue item).

8. Module cleaning system (wet method) including supply and installation of all accessories.
9. Construction of internal roads, pathways, construction of Drainage system as per General Layout and Topography, any internal / temporary fencing (except project boundary fencing), security cabin etc.
10. SCADA system for remote monitoring and control of Inverters with all hardware & software and complete set of Weather Monitoring Station including cloud cover.
11. Comprehensive Operation & maintenance of SPV Plant along with electrical equipment, consumables and spare parts for a period of Three years from the date of commissioning of full Project capacity.
12. Supply of Mandatory spares.

3.0 NTPC REL 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-2022-TN000011	
IFB Date	02.06.2022	
Period of Downloading of Bidding Documents	From 08.06.2022 TO 22.06.2022	
Pre Bid Conference and Last Date for receipt of queries from prospective Bidders	23.06.2022	
Last Date and Time for receipt of bids comprising both Techno-Commercial Bid and Price Bid	06.07.2022	15:00:00 (IST)
Date & Time of opening of Techno-Commercial Bid	06.07.2022	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 an amount as per below table in the form as stipulated in the Bidding Documents:

Number of Blocks / capacity quoted	Bid Security Amount
1 Block (315MW)	INR 10,00,00,000/- (Indian Rupees Ten Crore only)
2 or more Blocks (630MW/945MW/1255MW)	INR 20,00,00,000/- (Indian Rupees Twenty Crore only)

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In case the Bidder has submitted Bid Security less than the required Bid Security for offered no. Blocks as per above table, Bidder's eligible no. of Blocks shall be reduced to maximum no. of Blocks as per the value of submitted Bid Security as per above table.

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 EITHER IN SEPARATE SEALED ENVELOPE OR IN THE E-TENDERING PORTAL.

6.0 QUALIFYING REQUIREMENTS FOR BIDDERS

In addition to satisfactory fulfilment of the requirements stipulated under ITB (Instructions to Bidders) the following shall also apply:

1.0 TECHNICAL CRITERIA

1.1 The Bidder should have designed, supplied, erected/ supervised erection and commissioned/ supervised commissioning **of Balance of System** 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 minimum financial figure as specified in the Table below, 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.

Bid Capacity	Minimum Financial Figure
Block-1 (315MW)	Rs 100 Crore (Indian Rupees One Hundred Crores only)
Block-1 (315MW) + Block-2 (315MW)	Rs 300 Crore (Indian Rupees Three Hundred Crores only)
Block-1 (315MW)	Rs 700 Crore

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+ Block-2 (315MW) + Block-3 (315MW)	(Indian Rupees Seven Hundred Crores only)
Block-1 (315MW) + Block-2 (315MW) + Block-3 (315MW) + Block-4 (310MW)	Rs 1300 Crore (Indian Rupees Thirteen Hundred Crores only)

AND

- (b) The Bidder should have executed at least one (1) Electrical Sub-station 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 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 10MWp 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

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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. The Balance of Systems, under Clause 1.1, refers to works related to minimum three of the following four areas in a Solar PV Plant:
 - i. Erection of PV Modules
 - ii. Civil works including Module Mounting Structures/Floaters
 - iii. Inverters (Power Conditioning Units) and/or Inverter Transformers
 - iv. Cables and Cabling Works

2.0 FINANCIAL CRITERIA

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

Bid Capacity	Average Annual Turnover
Block-1 (315MW)	Rs 100 Crore (Indian Rupees One Hundred Crores only)
Block-1 (315MW) + Block-2 (315MW)	Rs 300 Crore (Indian Rupees Three Hundred Crores only)
Block-1 (315MW) + Block-2 (315MW) + Block-3 (315MW)	Rs 700 Crore (Indian Rupees Seven Hundred Crores only)
Block-1 (315MW) + Block-2 (315MW) + Block-3 (315MW)	Rs 1300 Crore (Indian Rupees Thirteen Hundred Crores only)

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+ Block-4 (310MW)

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 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.

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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 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.

7.1 The bidders who are found meeting the "Qualification Requirement" as stipulated at Para 6.0 above subsequent to the submission of Techno-commercial Bids shall be considered enlisted by NTPC REL for all future Solar BOS Packages of NTPC REL having project size of 50 MW or above for a period of Two Years from the date of invitation of Price Bids. The bidders may like to refer to the provisions of Bidding Documents for further details.

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 Renewable Energy 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 Renewable Energy Limited:

Account Number	921020013636047
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

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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:
UTR Reference:
Amount:
Date of Transfer:
Transferor Bank:

(Signature of Bidder with Seal)

8.1 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 Bid Security, Pass Phrases and Power of Attorney separately as detailed in Bidding Documents before the stipulated bid submission closing date and time at the address given below.

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-electronictender.com> with Tender Search Code **NTPCREL-2022-TN000011**.

*Interested bidders are required to ensure that they have downloaded the official copy of bidding documents against Tender Search code- **NTPCREL-2022-TN000011** from website of ETS before closure of Bid Sale Period. If only free copy of Bidding Documents are 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.

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.

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 (CS)/ Dy. General Manager (CS)

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