INVITATION FOR BID

NTPC LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
RENEWABLE ENERGY – CONTRACTS SERVICES, NOIDA.

INVITATION FOR BIDS (IFB)
FOR
BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 735 (3x245) MW NOKH SOLAR PROJECT IN RAJASTHAN, INDIA

(Domestic Competitive Bidding)

IFB No.: RE-CS-5741-004(BOS)-9 **Date:23.03.2020**

Bidding Document No: RE-CS-5741-004(BOS)-9

1.0 **NTPC Ltd.** invites online bids from eligible bidders on Two Stage Two Envelope (i.e. **i.e. Stage-I: Techno-Commercial Bid & Stage-II: Price Bid**) with Reverse Auction for **BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 735 (3X245) MW NOKH SOLAR PROJECT IN RAJASTHAN, INDIA**

2.0 BRIEF SCOPE OF WORK

The scope includes the following:

1. *Design, engineering, manufacturing, supply, packing and forwarding, transportation, unloading storage, installation, testing and commissioning of Solar Photo Voltaic **excluding supply of Solar PV modules**.*

2. *Transportation (excluding inland insurance) of PV Modules (Free issue by NTPC) from India Port of Delivery (for International PV Modules) including Port Clearance AND/OR from Module manufacturing Works (for Domestic PV Modules) to site.*

3. *Unloading at site, storage, installation, testing and commissioning of Solar PV Modules.*

4. *Site-grading, clearing of vegetation, Topography survey, Geotechnical Investigation.*

5. *Design and Construction of foundation & erection of Module Mounting Structure (MMS) for SPV panels, including fixing of PV Modules with MMS and PV Modules interconnection.*

6. *Providing power supply and water supply for construction purposes.*

7. *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.*

8. Construction of Central Monitoring and Control Station with switchgear room, SCADA room, Storeroom, Battery room with all electrical fitting and furniture, boundary fencing of SPV plant, security cabin etc.

9. All associated electrical and civil works required for interfacing with grid (i.e. transformers, breakers, isolators, panels, protection system, cables. metering at 33 kV level, earthing of transformer etc.) and evacuation of power to 33/220 kV Pooling station provided by Rajasthan Solar Park Development Company Ltd through capacity 33 kV cable.

10. Module cleaning system (wet and dry method) including supply and installation of all accessories.

11. Construction of internal roads, pathways, peripheral boundary wall etc.

12. SCADA system for remote monitoring and control of Inverters with all hardware & software.

13. Operation & maintenance of SPV Plant along with electrical equipment, consumables and spare parts for a period of Three years from the date of successful completion of trial run.

14. Supply of Mandatory spares.

The detailed scope of work is as defined in the bidding document No.: **RE-CS-5741-004(BOS)-9**

3.0 NTPC 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 sale at e-tender portal (as specified in this notice) and as per the following schedule:

IFB No.	**RE-CS-5471-004(BOS)-9**	
IFB Date	23.03.2020	
Document Sale Commencement Date	25.03.2020	
[illegible]	[illegible]	[illegible]
Pre Bid Conference and Last Date for receipt of queries from prospective Bidders	13.04.2020	
Last date and time for receipt of bids for Stage-I (Techno-Commercial) bids	27.04.2020	17:00:00 (IST)
Stage-I (Techno-commercial) bids opening date & time	28.04.2020	11:00:00 (IST)

Cost of Bidding Documents in INR	INR 22,500/- **(Indian Rupees Twenty Two Thousand Five Hundred only)**

Date of submission of Stage-II (Price Bid) and Reverse Auction shall be intimated separately after opening of Stage-I (Techno-Commercial) Bid. Bidder to download official copy of bidding document from the ETS Portal

4.1 Prospective bidders are required to provide GSTIN number at the time of purchase of bidding documents.

5.0 All bids must be accompanied by Bid Security for an amount of **INR 5,00,00,000/- (Indian Rupees Five Crore only)** in the form as stipulated in the Bidding Documents.

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 RETURNED TO THE BIDDER WITHOUT BEING 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 1.0 and Clause 2.0

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 respectively and the same should be in successful operation for at least one (1) year prior to the date of techno-commercial bid opening.

No of blocks of 245 MW	Minimum Financial Figure
01	**Rs 67 Crore** (Indian Rupees Sixty Seven Crore only)
02	**Rs 134 Crore** (Indian Rupees One Hundred Thirty four Crore 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. 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.

d. 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 and evidence of successful operation from intermediary procurer/ procurer/Discom/ Electricity Board shall be submitted.

e. For Clause 1.3, bidder shall submit a documentary evidence for the value of the project certified by a Chartered Accountant.

f. 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.

g. 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.

h. For Clause 1.2, Bidder shall submit evidence of successful operation from intermediary procurer/ procurer/Discom/ Electricity Board.

i. Developer means an entity who has either executed or got executed the work/ project as owner of industrial projects.

j. 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 and Commissioning of a project/work.

k. 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.

l. 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, during the preceding three (3) financial years as on date of techno-commercial bid opening.

No of blocks of 245 MW	Average Annual Turnover
01	**Rs 67 Crore** (Indian Rupees Sixty-Seven Crore only)
02	**Rs 134 Crore** (Indian Rupees One Hundred Thirty-Four Crore only)

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) X 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 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 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 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.

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.

7.0 NTPC 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 website **https://www.bharat-electronictender.com** (if not registered already). After registration, a complete set of Bidding Documents may be downloaded by any interested Bidder from Portal **https://www.bharat-electronictender.com** with Tender Search Code **NTPC-2020-TN000007 after** payment (non-refundable) of cost of the documents as mentioned above in the form of a crossed account Payee demand Draft in favour of “NTPC Ltd”, payable at New Delhi.

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:

Account Number	52142904702
IFSC Code	SBIN0020511
Name of the Bank	State Bank of India
Branch Code	20511
Address	Scope Complex Lodhi Road Branch Ground Floor, Core-6 Scope Complex Delhi-110003

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 NTPC as mentioned below requesting for access for download of the bidding documents in working hours between Monday to Friday.

8.1 Interested parties are required to ensure that they have downloaded the official copy of Bidding documents against Tender Search code- **NTPC-2020-TN000007** from abovementioned website without which they will not be able to submit their bids. For technical assistance call ETS Helpdesk at 0124-4229071, 0124-4229072.

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

8.1 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, Integrity Pact, 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.

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

10.0 Address for communication:

Addl. General Manager (Renewable Energy-Contract Services)/Sr Manager (Renewable Energy-Contract Services), NTPC Limited, Room No. 220, R&D Building, Engineering Office Complex (EOC) Annexe, A-8A, Sector-24, NOIDA, Distt. Gautam Budh Nagar, (UP), India, Pin - 201301 on Telephone No. +91-120-4947372 +91-120-4947376, Fax: +91-120-4947371;
Email: shailendra@ntpc.co.in/abhishekbhattacharjee@ntpc.co.in or at office.

Corporate Identification Number: L40101DL1975GOI007966, Website: www.ntpc.co.in