



DETAILED INVITATION FOR BIDS (IFB)

FOR

**EPC Package for Bhilai Solar PV Power Project (7MWp)
at Bhilai, Chhattisgarh**

(DOMESTIC COMPETITIVE BIDDING)

IFB No.: CC/C&M/C-495

Date: 04.10.2017

Bidding Document No: CC/C&M/C-495

1.0 NTPC-SAIL Power Company Limited (NSPCL), a Joint Venture of NTPC Limited and Steel Authority of India Limited, is in the process of setting up a 7 MWp Photo Voltaic Solar Power Project in the vicinity of Bhilai Steel Plant (BSP) at Bhilai, District Durg in Chhattisgarh.

NSPCL, Corporate Office, invites online bids from eligible bidders on **Single-Stage-Two-Envelope** (i.e. Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid) with **Reverse Auction** for Development of aforesaid Project using **PV cells and modules from any source (Non-DCR/ Open category)** as per the scope of work briefly mentioned hereinafter.

2.0 BRIEF SCOPE OF WORK

Bidder shall provide comprehensive operation & maintenance of the plant & transmission system for a period of five years from the date of successful completion of trial run.

The scope includes the following:

1. Basic Engineering of the plant and systems including Geo-technical investigation & Topographic survey of site.
2. Construction of Bore well, installation of pump, associated electrical power and other arrangement for drawl of water from Bore well including module washing system, arrangement for construction water, drinking & service water etc.
3. Construction of Pre-Engineered type Inverter room with Power conditioning unit and associated LT and HT switchgear in case of indoor installation which is not applicable in case of outdoor installations.
4. Construction of Central Monitoring and Control Station (CMCS) with Switchgear Room, SCADA Room, Store Room, Battery, Charger & UPS Room, Inverter Room, Supervisor Room, Pantry, Gents & Ladies Toilets with all electrical fitting and furniture etc.
5. All associated electrical and civil works required for interfacing with customer grid (i.e. transformers, breakers, isolators, panels, protection system, cables. metering at 11 kV level, earthing etc.) along with Associated Transmission System for evacuation of power to 11 kV Township Sub-Station of Bhilai Steel Plant by means of a double circuit 11 kV overhead lines /cables (each of 5 MW capacity).
6. Construction of internal roads, pathways & peripheral road, fencing for outdoor transformers, peripheral boundary wall, worker shed, security gate with guardroom and drainage system.
7. Supply, Installation and commissioning of SCADA along with supply and laying of OFC and associated hardware, software, cables and instruments.
8. Area lighting & Lightning Protection system.

9. CCTV Camera System , weather station and associated sensors
10. Power Supply Systems required for complete plant like UPS, DC Chargers, Batteries, Aux Power etc.
11. Operation & Maintenance of SPV Plant along with all equipment and systems, associated power evacuation lines, civil utilities including materials, consumables and spare parts for a period of five years from the date of successful completion of trial run.
12. Supply of Mandatory spares.
13. Detailed design of all the equipment and equipment system(s) including civil works.
14. Providing, Review and approval of engineering drawings, data, process Calculations, test procedures, structural design calculations, Equipment layout, Drawings/Data sheets of bought out items, Civil structural/architectural Drawings, Performance & Guarantee Test procedure etc.
15. Providing Operation & Maintenance/ instruction manuals, as built drawings and other information;
16. Providing training of Employer's personnel
17. Finalization of sub-vendors, manufacturing quality plans and Field quality plans.
18. Complete manufacturing including conducting all type, routine and acceptance tests; Civil, Structural and Architectural works to the extent applicable, including construction facilities and construction power distribution.
19. Packing and transportation from the manufacturer's works to the site including customs clearance & port clearance, port charges, (if any).
20. Receipt, storage, preservation and conservation of equipment at the site; Fabrication, pre-assembly, (if any), erection, testing, pre-commissioning and commissioning and putting into satisfactory operation all the equipment including successful completion of initial operation
21. Reliability and Functional guarantee tests after successful completion of trial operation;
22. Supply of Commissioning Spares on as required basis.
23. Special tools and tackles if any required for maintenance of the plant.
24. Satisfactory completion of the contract.

The Bidder shall also jointly facilitate in resolution of Land Acquisition issues, if any, related to the Project

3.0 NSPCL 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 the address given below and as per the following schedule:



IFB No	IFB No: CC/C&M/C-495	
IFB Date	04.10.2017	
Document Sale Commencement Date & Time	14.10.2017	10:00 Hrs
Document Sale Close Date & Time	13.11.2017	1500 Hrs
Pre Bid Conference and Last Date for receipt of queries from prospective Bidders	24.11.2017	
Last Date and Time for receipt of bids comprising both Techno-Commercial Bid and Price Bid	15.12.2017	1430 Hrs
Date & Time of opening of Techno-Commercial Bid	15.12.2017	1500 Hrs
Date and Time of start of Reverse Auction	Shall be intimated separately by NSPCL	
Cost of Bidding Documents in INR (inclusive of GST)	INR 2000 (Indian Rupees Two Thousand Only)	

- 5.0** All bids must be accompanied by Bid Security for an amount of **INR 30,62,000/- (Indian Rupees Thirty Lakh Sixty Two Thousand 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 clauses 1.1 or 1.2 or 1.3 as the case may be and clause 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 minimum 5 MWp capacity or above. The reference plant of 5 MWp or above 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 minimum 5 MWp capacity or above. The reference plant of 5 MWp or above 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 value of **INR 33 Crore (Indian Rupees Thirty Three Crore 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 the date of techno commercial bid opening.

AND

- (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 the date of techno-commercial bid opening.

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

Notes:

- a. The reference SPV based grid connected power plant of 5 MWp or above capacity should be at a single location developed by Bidder for itself or any other client.
- b. SPV based Roof-top solar power projects, which are grid connected, shall also be considered eligible for QR purposes.
- 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 not be considered as Bidder's experience for meeting the QR.
- 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 techno-commercial 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 1.2 or 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 1.3 means, such EPC Contractor is responsible for all the activities i.e. Design/Engineering, Procurement, Construction and Commissioning of a project/work.

2.0 FINANCIAL CRITERIA

- 2.1 The average annual turnover of the Bidder, should not be less than **INR 33 Crore (Indian Rupees Thirty Three Crore only)** during the preceding three (3) completed 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 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 its 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 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:

- i. 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.
- ii. Other income shall not be considered for arriving at annual turnover.
- iii. "Holding Company" and "Subsidiary" shall have the meaning ascribed to them as per Companies Act of India.
- iv. For Turnover indicated in foreign currency, the exchange rate as on seven (7) days prior to the date of techno-commercial bid opening shall be used.



7.0 NSPCL 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 by any interested Bidder after logging in NSPCL SRM Portal (<http://srmportal.nspclsrijan.co.in:50000/irj/portal>) after payment (non-refundable) of the cost of the documents as mentioned above in the form of a crossed account Payee demand draft in favour of “NSPCL”, Payable at New Delhi **OR** payment through NEFT/RTGS transfer in the following NSPCL’s Bank Account:

A/c name : NTPC SAIL POWER COMPANY LIMITED
A/c no : 201000330054
Bank / Branch : INDUSIND BANK LTD, Barakhamba Branch, New Delhi
IFSC code : INDB0000005

For logging on to the NSPCL SRM Portal, the bidder would require SRM User ID and Password which can be obtained from NSPCL Corporate Office by raising request through email on monika.godara@nspcl.co.in or vidyathool@nspcl.co.in or rpahirwar@nspcl.co.in along with Registratuion Form duly filled up on Bidder’s letter head and attaching required supporting docuemnts. The Registration form is available on NSPCL website www.nspcl.co.in under tab “NSPCL SRM PORTAL”.

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 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:

For the detailed IFB, please visit www.nspcl.co.in or www.ntpctender.com or may contact AGM (C&M), NSPCL, 4th Floor, NBCC Tower, 15, Bhikaiji Cama Place, New Delhi-110066 on Telephone No.: 011-26717376/77 or through E-mail: monika.godara@nspcl.co.in or vidyathool@nspcl.co.in or rpahirwar@nspcl.co.in. Bidding documents can only be downloaded from NSPCL SRM web portal <http://srmportal.nspclsrijan.co.in:50000/irj/portal> after getting login ID and password from NSPCL and payment of cost of bidding documents.

11.0 All further Corrigendum/ Modification/ Updates for this IFB will only be published on www.nspcl.co.in and <http://srmportal.nspclsrijan.co.in:50000/irj/portal>. Bidders are requested to visit these websiles frequently to update themselves.

Corporate Identification Number: U74899DL1999PLC098274, Website: www.nspcl.co.in

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