



NTPC-SAIL POWER COMPANY PRIVATE LIMITED

(A Joint Venture of NTPC & SAIL)

CORPORATE CONTRACTS & MATERIALS, NEW DELHI

(International Competitive Bidding)

DETAILED INVITATION FOR BIDS

IFB No.: CC/C&M-C-351

Date of Issue: 20.10.2014

**R&M WORK OF DISTRIBUTED CONTROL SYSTEM FOR
DURGAPUR CAPTIVE POWER PLANT-II (2X60MW)
LOCATED IN DISTRICT BURDWAN, STATE OF WEST BENGAL, INDIA**

1.0 NSPCL invites e-tenders in Two Stages (**i.e. Stage-I : Techno-Commercial Bid and Stage-II: Price Bid**) for EPC Package For **Durgapur Captive Power Plant (2X60MW)** Located In District Burdwan, State of West Bengal, India as per the brief Scope of Work mentioned hereinafter.

2.0 **BRIEF SCOPE OF WORK**

The R&M scope of work for the equipment, material and system shall include design, engineering, re-engineering, manufacture / refurbishment / retrofitting, fabrication, assembly, pre-shipment testing at manufacturer's works, proper packing for transportation, delivery at plant site, unloading, storage, installation, interconnection with related plant and equipment, calibration, testing, commissioning and putting the Control and Instrumentation System together with all accessories, auxiliaries and associated equipment.

Replacement of existing control system with DCS package is intended to procurement of the equipment and systems for control, protection, operation and monitoring of the total plant, except a few areas along with other sub-systems for other functions.

The control system, called Distributed Control system (DCS) is envisaged to consist of the following sub-systems:-

1. Station C&I consisting of following as minimum

- a. Modulating control for Steam-Generator (SG)
- b. Modulating control for various Cycles
- c. Binary control of the auxiliaries for Steam-Generator (SG)
- d. Binary control of the auxiliaries for Turbine-Generator (TG)

2. SG C&I consisting of following as minimum

- a. Burner Management System (BMS)
- b. Boiler Protection

3. TG C&I consisting of following as minimum

- a. Interface with EHTC and TSI system.
- b. Turbine Protection

Its Human Machine Interface (HMI) is to be based on Large Video Screen (LVS) displays supported by TFT monitor based Operator Work Stations (OWS). These devices through customized user-friendly displays, soft alarm facia and pop-up displays

are used for giving fast pin-pointed faults/ status to the operator. Local / Back-up operation of some equipment / drives is envisaged through Push Buttons in some application. The total system is to be networked through a Station-Wide LAN for use of real time data of various plant areas by other users like maintenance, planning, efficiency enhancement groups etc. with adequate security policies.

The sequence of events recording & alarm annunciation are also implemented as a part of DCS system. A GPS based master and slave clock system is envisaged for uniform and synchronized timing signals throughout the entire station.

The power supply for each of the above control systems is to be based on 24V DC provided through microprocessor based modular system and for the peripherals and other subsystem through 230V Single Phase UPS along with battery backup for Main plant.

Field instruments like temperature elements, Temperature Transmitter, Pressure Transmitters, DP transmitters, Level Transmitters along with their process connection & piping as well as measurement systems etc are also procured through this package.

Apart from above, Operator control desks, panels, shielded twisted pair instrumentation cables, control and power cables, optical fiber cables, field erection material viz. conduits, trays etc. are also included in this package.

Connectivity with existing numerical relays installed at switchgear.

Dismantling existing DCDB and supply, installing of new DCDB (220VDC control supply)

In addition, dismantling of existing equipment and panels, as identified and as required, is also included in the package.

Detailed scope of work has been specified in the bidding documents.

- 3.0 NSPCL intends to finance the subject Package through External Borrowings/Own Resources.
- 4.0 Detailed specification, scope of work and terms & conditions are given in the bidding documents, which are available for examination at the address given below till the last date for requesting the bidding documents indicated herein. The salient details and schedule for the bidding is as under:

| | |
|---|---|
| Issuance of IFB | 20.10.2014 |
| Document Download / Sale Commencement Date & Time | 10:00:00 on 20.10.2014 |
| Document Download / Sale Close Date & Time | 17:00:00 on 17.11.2014 |
| Last Date & Time for Receipt of Queries from Bidders (if any) | 17:00:00 on 27.11.2014 |
| Last Date and Time for Techno-Commercial Bid (Stage-I) submission | 14:30:00 on 17.12.2014 |
| Techno-Commercial (Stage-I) Bid Opening Date & Time | 15:00:00 on 17.12.2014 |
| Cost of Bidding Documents | INR 7875/- (Rupees Seven Thousand Eight Hundred Seventy Five only) for Indian Bidders and US \$ 175/- (US Dollars One Hundred Seventy Five only) for Foreign Bidders. |

Date for opening of Price Bid (Stage – II) shall be intimated separately after opening of Techno–Commercial Bid (Stage-I) to the qualified bidders of Stage-I.

- 5.0 A complete set of Bidding Documents is to be downloaded from NSPCL's e-tender website "<http://www.tenderwizard.com/NSPCL>" after registration on the website and entering the payment details at the place mentioned therein after paying the cost of bidding documents (non-refundable) as mentioned at clause 4.0 above in the form of an Account Payee Demand Draft / Bankers' Pay Order in favour of NTPC-SAIL Power Company Private Limited or "**NSPCL**" payable at **New Delhi** or through Electronic Money Transfer into NSPCL's Account No. **0007 0500 2031** of ICICI Bank, Connaught Place Branch, New Delhi, (IFSC Code **ICIC 0000007** and Swift Code **ICICINBB007**) and entering its details at the appropriate place on the website. The original of the Demand Draft / Bankers' Pay Order or printed copy of the transaction statement for the Electronic Money Transfer is to be submitted in original at the address indicated below along with the Earnest Money Deposit.
- 5.1 Only the downloaded documents are to be used for bidding purposes. Bids shall be submitted online on our website and opened at the address given below in the presence of Bidder's representatives who choose to attend.
- 5.2 All bids must be accompanied by Bid Security for an amount of **INR 51,21,000 (Rupees Fifty One Lac and Twenty One Thousand only or USD 83,400 (US Dollar Eighty Three Thousand Four Hundred only)** in the form as stipulated in the Bidding Documents.
- ANY BID FOR WHICH ACCEPTABLE BID SECURITY AND COST OF BIDDING DOCUMENTS IN A SEALED ENVELOPE IS NOT RECEIVED PHYSICALLY AT THE ADDRESS INDICATED BELOW SHALL BE REJECTED BY THE EMPLOYER AS BEING NON-RESPONSIVE AND SHALL NOT BE OPENED.***
- 5.3 The Bidder may examine the bidding documents and may request for any modification or clarification or suggestions or deviation to the bidding documents prior to the specified last date for clarifications. The bidders are required to send his request to NSPCL by post or by email at the address indicated below for any modification or clarification or suggestions before the specified last date for the same.
- 5.4 Subsequent to last date for receipt of clarifications, NSPCL shall internally review the clarifications/ suggestions/deviations of the bidders and transmit the response (without identifying the source of query) to all prospective Bidders who have received the bidding documents. The response shall be sent through amendments/ clarifications to the bidding documents through email. While making his Techno-Commercial Bid & Price Bid; the bidder shall take into consideration all terms, conditions and specifications of the Bidding Documents, the amendment(s)/ clarification(s)/ addenda/errata (if any) issued by NSPCL prior to opening of Techno-Commercial Bids.
- 5.5 In case any modification (s) or clarification (s) or suggestion (s) of the bidders is / are not accepted in the said amendments/ clarifications made to the bidding documents; the bidders shall suitably take in to account the implication of such modification or clarification or suggestions by the bidder into their bid prices, if any, and submit their bid without any further modification or clarification or suggestions or deviation.

6.0 **Qualifying Requirements for Bidders (QR):**

1.0 In addition to the satisfactory fulfillment of the requirements stipulated under section ITB (Instructions to Bidder), the following shall also apply:

2.0 **Route-1 (For Bidder)**

The Bidder should have

- a) Engineered, Manufactured, Supplied, Erected / Supervised Erection & Commissioned / Supervised Commissioning of Distributed Digital Control, Monitoring & Information System (DDCMIS) / Distributed Control System (DCS), which should have been in successful operation in at least one (1) unit of coal fired station having unit rating of 60 MW or above for a period of not less one (1) year prior to the date of Techno-Commercial bid opening.
- b) Executed an order / orders of DDCMIS / DCS whose control system is either same or of the same series as being offered for this package & which should have been in successful operation in at least one (1) unit of coal fired station having unit rating of 60 MW or above for a period of not less than one (1) year prior to the date of Techno-Commercial bid opening.
- c) The control system of both (a) and (b) above should necessarily include as a minimum,

1. **Station C&I consisting of following as minimum**

- a. Modulating control for Steam-Generator (SG).
- b. Modulating control for Feed water / Condensate Cycle.
- c. Binary control of the auxiliaries for Steam-Generator (SG).
- d. Binary control of the auxiliaries for Turbine-Generator (TG).

AND

2. **SG-C&I consisting of following as minimum on tangential coal fired boiler**

- a. Burner Management System (BMS).
- b. Boiler Protection.

AND

3. **TG-C&I consisting of following as minimum**

- a. Interface with Turbine Governing system.
- b. Turbine Protection

It is not essential that all the three sub-systems SG-C&I, TG-C&I and Station-C&I are implemented in a single unit i.e., Bidder may participate even if the above has been carried out for these three sub-systems in three different units.

3.0 **Route-2 (For Bidder with Collaborator/Associate)**

The Bidder, who meets the requirements at 2.0 (a) with 2.0 (c) 1 only may also participate provided it associates with a DDCMIS / DCS manufacturer, who meets the requirements of 2.0 (a), (b) & (c) (1,2,3) above, only for engineered, supplied and commissioned the respective DDCMIS / DCS. In such a case, the Bidder should furnish along with its Techno-Commercial bid a Deed of Joint Undertaking (DJU), jointly executed by it along with its Collaborator / Associate for full responsibility of the performance of DDCMIS / DCS portion of the Contract as per format enclosed with the bidding documents in which the Collaborator / Associate and the Bidder shall be jointly & severally liable to the Employer to perform all contractual obligations for the scope of work for which the Collaborator / Associate is responsible. This Deed of Joint Undertaking should be submitted along with the Techno-Commercial Bid, failing which the Bidder shall be disqualified and its bid shall be rejected. In case of award, the Collaborator/ Associate shall be required to furnish an on-demand bank guarantee as per the format enclosed with the bidding documents for a value equal to 2% (two percent) of the total contract price in addition to the contract performance security to be furnished by the Bidder.

4.0 **Financial Criteria of Bidder:**

- 4.0(a) The average annual turnover of the Bidder, in the preceding three (3) financial years as on the date of Techno-Commercial bid opening, should not be less than **INR 219 Million (Indian Rupees Two Hundred nineteen million only)** or in equivalent foreign currency.
- 4.0(b) The Net Worth of the Bidder as on the last day of the preceding financial year should not be less than 25% of its paid-up share capital.
- 4.0(c) 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 for substantiation of its qualification:
- i. Copies of the unaudited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company.
 - ii. A Certificate from the CEO / CFO of the Holding Company, as per the format enclosed with the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated financial statements of the Holding Company.

In case where audited results for the preceding financial year are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable.

- 4.0(d) In case a Bidder does not satisfy the financial criteria, stipulated at Cl. 4.0(a) and / or Cl.4.0 (b) above on its own, its Holding Company would be required to meet the stipulated turnover requirements at Cl. 4.0 (a) 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 its Holding Company, supported by Board Resolution of the Holding Company, as per the format enclosed in the bidding documents, pledging unconditional and

irrevocable financial support for the execution of the Contract by the Bidder in case of award.

- 4.0(e) The unutilized line of credit for fund based and non-fund based limits with cash and bank balances including fixed deposits of the Bidder as on a date not earlier than 15 days prior to the date of Techno-Commercial bid opening, duly certified by its bankers should not be less **INR 137 Million (Indian Rupees One hundred Thirty Seven million only)** or in equivalent foreign currency. In case certificates from more than one bank are submitted, the certified unutilized limits should be of the same date from all such banks.
- 4.0(f) Where another Company of the group acting as the Treasury Centre is responsible for Treasury Management of the Bidder having combined credit / guarantee limit for the whole group, the Bidder would be required to provide a Banker's certificate regarding the unutilized line of credit for fund based and non-fund based limits together with cash and bank balances including fixed deposits available to such Treasury Centre. Further, Treasury Centre should certify that out of the aforesaid limits certified by the bankers, the Bidder shall have access to the line of credit of a level not less than the specified amount at Cl. 4.0 (e) above. In proof of this, the Bidder would be required to furnish along with its Techno-Commercial bid, a Letter of Undertaking from the Treasury Centre, supported by a Resolution passed by the Board of Directors of the holding company, as per the format enclosed with the bidding documents, pledging unconditional and irrevocable financial support for the execution of the Contract by the Bidder in case of award.
- 4.0(g) In case the Bidder's unutilized line of credit for fund based and non-fund based limits specified at Cl. 4.0(e) above is not sufficient, a comfort letter from one of the bankers specified in the bidding documents unequivocally stating that in case the Bidder is awarded the Contract, the Bank would enhance line of credit for fund based and non-fund based limits to a level not less than the specified amount at clause 4.0 (e) above to the Bidder or to the Treasury Centre as the case may be, shall be acceptable.

5.0 **Financial Criteria of Collaborator/ Associate**

- 5.0(a) For Bidder seeking qualification through clause 3.0 above, the average annual turnover of its Collaborator / Associate (meeting requirement of clause 2.0 above) in the preceding three (3) financial years as on the date of Techno-Commercial bid opening, should not be less than **INR 104 Million (Indian Rupees One hundred four million only)** or in equivalent foreign currency.
- 5.0(b) The Net Worth of the Collaborator / Associate as on the last day of the preceding financial year should not be less than 25% of its paid-up share capital.
- 5.0(c) In case the Collaborator / Associate is not able to furnish its audited financial statements on standalone entity basis, the unaudited unconsolidated financial statements of the Collaborator/ Associate can be considered acceptable provided the Collaborator / Associate further furnishes the following documents for substantiation of its qualification:
- (i) Copies of the unaudited unconsolidated financial statements of the Collaborator / Associate along with copies of the audited consolidated financial statements of the Holding Company of Collaborator / Associate.
 - (ii) A 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 statements of the Holding Company of Collaborator / Associate.

In cases where audited results for the preceding financial year are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable.

- 5.0(d) In case a Collaborator / Associate does not satisfy the financial criteria, stipulated at Cl. 5.0(a) and/ or Cl.5.0 (b) above on its own, its Holding Company would be required to meet the stipulated turnover requirements at Cl. 5.0 (a) 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 Collaborator / Associate would be required to furnish along with bidder's Techno-Commercial bid, a Letter of Undertaking from the Holding Company, supported by Board Resolution of the Holding Company as per the format enclosed with the bidding documents, pledging unconditional and irrevocable financial support to the Collaborator / Associate to honour the terms and conditions of the Deed of Joint Undertaking, in case of award of the Contract to the Bidder with whom Collaborator / Associate is associated.
- 5.0(e) For Bidder seeking qualification through clause no 3.0 above, the un-utilised line of credit for fund based and non-fund based limits with cash and bank balances including fixed deposits of its Collaborator / Associate (meeting requirement of clause 2.0 above) as on a date not earlier than 15 days prior to the date of Techno- Commercial bid opening, duly certified by the Collaborator's / Associate's Bankers should not be less than **INR 32 Million (Indian Rupees Thirty Two million only)** or in equivalent foreign currency. In case certificates from more than one bank are submitted, the certified unutilized limits should be of the same date from all such banks.
- 5.0(f) Where another Company of the group acting as the Treasury Centre is responsible for Treasury Management of the Collaborator / Associate having combined credit / guarantee limit for the whole group, the Collaborator / Associate would be required to provide a Banker's certificate regarding the unutilized line of credit for fund based and non-fund based limits together with cash and bank balances including fixed deposits available to such Treasury Centre. Further, Treasury Centre should certify that out of the aforesaid limits certified by the bankers', the Collaborator / Associate shall have access to the line of credit of a level not less than the amount specified at Cl. 5.0 (e) above. In proof of this, the Bidder would be required to furnish along with its Techno-Commercial bid, a Letter of Undertaking from the Treasury Centre, supported by a Resolution passed by the Board of Directors of the Collaborator / Associate's Holding Company, as per the format enclosed in the bidding documents, pledging unconditional and irrevocable financial support to the Collaborator / Associate to honour the terms and conditions of the Deed of Joint Undertaking, in case of award of the Contract to the Bidder with whom Collaborator / Associate is associated.
- 5.0(g) In case the Collaborator's / Associate's unutilized line of credit for fund based and non-fund based limits specified at Cl. 5.0(e) above is not sufficient, a comfort letter from one of the bankers specified in the bidding documents unequivocally stating that in case of award of the Contract to the Bidder with whom Collaborator / Associate is associated, the Bank would enhance line of credit for fund based and non-fund based limits to a level not less than the specified amounts at clause 5.0 (e) to the Collaborator / Associate or to the Treasury Management Centre as the case may be, shall be acceptable.

Notes for clause 4.0 and 5.0:

- 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 & Surplus.
 - b) Other income shall not be considered for arriving at annual turnover.
 - c) For unutilized line of credit for fund based and non-fund based limits and Turnover indicated in foreign currency, the exchange rate as on 7 days prior to the date of Techno-Commercial bid opening shall be used.
- 6.0 Notwithstanding anything stated above, the Employer reserves the right to assess the capabilities and capacity of the Bidder / his Collaborators / Associates / Subsidiaries / Group companies to perform the Contract, should the circumstances warrant such assessment in the overall interest of the Employer.
- 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 Issuance / Downloading of Bid Documents by any Bidder or payment / acceptance of tender documents cost shall not construe that such Bidder is considered to be qualified.
- 9.0 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, Power of attorney, Integrity Pact, Acceptance of important Terms & Conditions, Deed of Joint Undertaking & Certificate for Compliance of QR (as applicable) in physical form offline as detailed in Bidding Documents before the stipulated Bid Submission Closing Date and Time of Techno- Commercial Bid at the address indicated below.
- 10.0 Transfer of bidding documents purchased by one intending bidder to another is not permissible.

11.0 ADDRESS FOR COMMUNICATION:

AGM(C&M) / DGM(C&M)
NTPC-SAIL POWER COMPANY PRIVATE LIMITED
4th Floor, NBCC Tower,
15, Bhikaji Cama Place,
New Delhi-110 066

Phone: 011-26717376 / 26717377,

Fax: 011-26717365 / 26717363

E-mails: pradeep_n_mathur@yahoo.com, or ashwanibhaskar@ntpc.co.in

Website: www.tenderwizard.com/NSPCL