



The West Bengal Power Development Corporation Limited

NOTICE INVITING TENDER

E- Tenders in prescribed format are invited at <https://eps.buyjunction.in> by the General Manager(M&C),Corporate Office,the WBPDCCL from eligible Agencies/firms in **02(two) stage** bid system for the following :

Name of the job :

DOMESTIC COMPETITIVE BIDDING (DCB) DRY SORBENT INJECTION (DSI) SYSTEM PACKAGE FOR KOLAGHAT THERMAL POWER STATION (KTPS) UNITS UNIT #3, UNIT #4, UNIT #5 & UNIT #6 (4 x 210 MW) THROUGH EPC TURNKEY PACKAGE

N IT no. : WBPDCCL/CORP/NIT/E1439/21-22

| Sl. No. | Milestone | Date |
|-------------------------------|--|--|
| 1 | Publishing Date | 26.06.2021 at 10:00 hrs. |
| 2 | Document Download start date (Stage-I) | 26.06.2021 at 10:00 hrs. |
| 3 | Pre-bid meeting (online through Microsoft Teams APP) | 19.07.2021 at 11:00 hrs. |
| 4 | Pre-Bid resolution upload | 28.07.2021 at 15:00 hrs. |
| 5 | Bid submission start date (Stage-I) | 26.06.2021 at 10:00 hrs. |
| 6 | Bid submission end date (Stage-I) | 11.08.2021 at 15:00 hrs. |
| 7 | Technical Bid opening date (Stage-I) | 11.08.2021 at 15:30 hrs. |
| Correspondence Details | | |
| 1 | Address | The West Bengal Power Development Corp. Ltd., Bidyut Unnayan Bhaban, Plot No. : 3/C, L.A. Block, Salt Lake City, Sector – III, Kolkata : 700106. |
| 2 | Contact person | The Manager (PS) , M&C department, Corporate Office, The West Bengal Power Development Corp. Ltd. Bidyut Unnayan Bhaban, Plot No. 3/C LA-Block, Sector-III, Bidhannagar,Kolkata- 700 106 Contact: 03326813625/ipsitamnc020919@gmail.com 9830616477 |

For further process please visit: <https://eps.buyjunction.in>



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1.0 The West Bengal Power Development Corporation Limited (WBPDC) invites Electronically secured tenders in **TWO STAGES (i.e Stage-I: Techno-commercial Bid and Stage-II: Price Bid)** from reputed eligible bidders having sound technical and financial capability for the following work at KOLAGHAT THERMAL POWER STATION (4x210 MW) through mjunction portal – eps.byjunction.in.

2.0 SCOPE OF WORK FOR THE TURNKEY PACKAGE:

Scope of work for the Turnkey Package:

The scope of Dry Sorbent Injection (DSI) System Package for KTPS (4X210MW) for four (4) units of 210 MW shall cover design, engineering, manufacture, shop fabrication, preassembly, shop testing/type testing at manufacturer's works, packing, transportation, unloading, handling and conservation of equipment at site, complete services of construction including erection, supervision, pre-commissioning, commissioning and performance testing of equipments under bidder's scope of work of Dry Sorbent Injection (DSI) System and its associated auxiliaries including all associated Electrical, Control &

Instrumentation, Civil, Structural and Architecture works. Dry Sorbent Injection System shall use Sodium Bicarbonate as reagent and shall have but not limited to the following:

- Sodium Bicarbonate (SBC) Storage Silos for each units complete with Truck Unloading System to Storage Silos, Sodium Bicarbonate Feeding, Milling & Injection system for each unit;
- Instrument air compressors common for all the units;
- Mill building for each unit for housing Mills, Unloading and Injection Blowers, Truck unloading Blowers, Dehumidifiers etc.
- Complete Electrical System including all motors, LT Switchgears, Transformers, Electrical Actuators, LT power & control cables, cabling, lighting, common MCC room etc.
- Complete C&I systems including SO₂ analyser.
- Special maintenance tools and tackles, commissioning spares , mandatory spares etc.

Scope shall be inclusive of logistic studies, customs clearance & port clearance, port charges, if any, Performance and guarantee tests after successful completion of initial operation; Supply of Mandatory spares, Reconciliation with Customs Authorities and Satisfactory conclusion of the Contract.

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

2.1 System Description:

The DSI system for SO₂ control shall be based on Sodium Bicarbonate as reagent. Sodium Bicarbonate shall be milled before being injected at appropriate location at APH inlet/APH outlet for capturing of SO₂ in the flue gas. ESPs are installed downstream of APH where the reactants shall be collected along with ash.



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3.0 TIME OF COMPLETION:

Completion of all Facilities within 14 months from the date of issue of Letter of Award.

4.0 Bid Security/Earnest Money Deposit(EMD):

Rs. 3,20,00,000/- (Rupees Three crore twenty lakhs only)

Bank Guarantees of above mentioned has to be submitted within the stipulated date and time as Earnest Money Deposit (EMD). The Bank Guarantees have to be issued by an Indian Branch of any scheduled bank under RBI. The Bank Guarantee shall remain valid for a period of total **270** (two hundred seventy) days that is **180** (one hundred eighty) days with an **additional claim period of 90 (ninety)** days from the date of opening of the tender for Stage-I. **Scanned copy of EMD need to be uploaded with the Bid in the E-tender portal (<https://eps.buyjunction.in>)**. Any bid without bid security shall be rejected .

The bidder shall furnish as part of its bid , bid security as specified above , in original and in the amount specified above, before the techno-commercial bid submission (Stage-I) end date at the office of the GM(M&C),WBPDC, Corporate Office.

Details of the above and the other terms and conditions have been specified in the Conditions of Contract.

5.0 QUALIFICATION REQUIREMENT AND ELIGIBILITY CRITERIA FOR BIDDERS

5.1. The Bidder should be an Indian Company registered in India under the Companies Act of India meet the qualifying requirements stipulated in any one of the qualifying routes, i.e., Route-5.1 (A) or 5.1 (B) in addition to the other conditions stipulated under Instructions to Bidders:

(A) **ROUTE-1 Bidding as Qualified Dry Sorbent Injection System Manufacturer (QDSIM)**

1. Technical Criteria

a) The Bidder should have designed, engineered, supplied, erected/supervised erection and commissioned/supervised commissioning of at least one (1) no. of permanent Dry Sorbent Injection System in a pulverized coal fired unit, having flue gas flow of not less than 6,00,000 Nm³/hr, with sulphur dioxide capture efficiency of at least 50%. The



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above Dry Sorbent Injection System should be using Sodium Bicarbonate as reagent and should have been in successful operation for a period not less than one (1) year prior to the date of Techno-Commercial bid opening(Stage-I).

- b) Foreign based QDSIM shall participate through following route:
- Its subsidiary company in India
[with letter of undertaking from its Holding company supported by the Legal Document pledging unconditional and irrevocable financial & technical support to the bidder for the execution of the contract for five years from the last month of the date of bidding or till completion of defect liability period whichever is later.]
 - Forming JV with Indian Company registered in India.
 - Consortium with Indian Company registered in India. (Consortium leader shall be Indian partner and Consortium members shall be restricted to 2 (two))

The bidder in this case shall be one of the Sr. No. i to iii above.

The Indian partner, in case (b) (ii) and (b) (iii) above, should be an Engineering, Procurement and Construction (EPC) organization and should have executed, in the last 7 years, industrial projects on EPC basis (with or without civil works) in the area of power or any other industry during last 7 years ending last day of month previous to one in which applications are invited, with order values as follows:

Three completed works costing not less than the amount of Rs. 64 Cr. each

OR

Two completed works costing not less than the amount of Rs. 80 Cr. each

OR

One completed works costing not less than the amount of Rs. 128 Cr.

- c) QDSIM should submit performance certificate regarding satisfactory operation of FGD system (Dry Sorbent Injection System using Sodium Bicarbonate as reagent) from any end user along with relevant Purchase order/ Contract Agreement. Such system should have been in successful operation for a period not less than one (1) year prior to the date of Techno-Commercial bid opening(Stage-I).

2. Financial Criteria

- a) Average Annual financial turnover of the bidder and QDSIM consortium partner(s) individually during last 3 years (FY 2017-18, FY 2018-19, FY 2019-20), should be more than values as indicated in table below-

| Particulars | Average Annual financial turnover during last three financial years |
|---|---|
| Indian Bidder participating in the tender | INR 48 Cr. |
| QDSIM, Consortium each partner | INR 48 Cr. |



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- b) The Net Worth of bidder as on the last day of the preceding financial year (FY 2019-20) should not be less than 100% of the paid-up share capital and for QDSIM consortium partner (in case of Consortium), Net Worth should be positive as on the last day of the preceding financial year (FY 2019-20).
[QDSIM consortium partner is the member of consortium who is holding FGD system (Dry Sorbent Injection System using Sodium Bicarbonate as reagent) technology or FGD system (Dry Sorbent Injection System using Sodium Bicarbonate as reagent) manufacturer.]
- c) In case the bidder or consortium partner does not satisfy the financial criteria regarding Average annual financial turnover during the last 3 financial years and Net Worth on its own, then the financial credentials of its holding company shall be submitted along with letter of undertaking from its Holding company supported by the Legal Document pledging unconditional and irrevocable financial & technical support to the bidder for the execution of the contract for five years from the last month of the date of bidding or till completion of defect liability period whichever is later.
- d) The deed of joint undertaking (DJU), Consortium agreement should be submitted along with the Techno-commercial bid.

(B) ROUTE-2 Bidding as EPC Organization with collaboration and Technology Licensing Agreement with QDSIM:

1. Technical Criteria

The Bidder should meet the following requirements:

The bidder should be an Engineering, Procurement and Construction (EPC) organization and should have executed, in the last 7 years, industrial projects on EPC basis (with or without civil works) in the area of power or any other similar process industry during last 7 years ending last day of month previous to one in which applications are invited, with order values as follows:

Three completed works costing not less than the amount of Rs. 64 Cr. each

OR

Two completed works costing not less than the amount of Rs. 80 Cr. each

OR

One completed works costing not less than the amount of Rs. 128 Cr.

- a) Such EPC project should have been in successful operation for a period not less than one (1) year within last 7 years prior to the date of Techno-commercial bid submission. Bidder to submit performance certificate regarding satisfactory operation from any end user along with relevant Purchase Order/ Contract Agreement.
- b) In addition to above, the bidder should be having valid collaboration agreement or technology licensing agreement (TLA) with QDSIM for minimum 5 years or till completion of defect liability period of the allotted FGD project (Dry Sorbent Injection



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System using Sodium Bicarbonate as reagent) whichever is later. In such a case Bidder can either source the Dry Sorbent Injection System from such manufacturer or manufacture/get manufactured the Dry Sorbent Injection System as per the design and manufacturing drawings released by such QDSIM.

- c) QDSIM should submit performance certificate regarding satisfactory operation of FGD system (Dry Sorbent Injection System using Sodium Bicarbonate as reagent) from any end user along with relevant Purchase order/ Contract Agreement. Such system should have been successful operation for a period not less than one (1) year prior to the date of Techno-commercial bid opening.
- d) QDSIM is one who has designed, engineered, supplied, erected/supervised erection and commissioned/supervised commissioning of at least one (1) no. of permanent Dry Sorbent Injection System in a pulverized coal fired unit, having flue gas flow of not less than 6,00,000 Nm³/hr, with sulphur dioxide capture efficiency of at least 50%. The above Dry Sorbent Injection System should be using Sodium Bicarbonate as reagent.

2. Financial Criteria:

- a) Average Annual financial turnover of the bidder and collaborator (in case of Collaboration) individually during last 3 (FY 2017-18, FY 2018-19, FY 2019-20), should be more than values as indicated in table below-

| Particulars | Average Annual financial turnover during last three financial years |
|---|---|
| Indian Bidder participating in the tender | INR 48 Cr. |
| QDSIM, Collaborator | INR 48 Cr. |

- b) The Net Worth of bidder as on the last day of the preceding financial year (FY 2019-20) should not be less than 100% of the paid-up share capital and for QDSIM collaborator (in case of Collaboration), Net Worth should be positive as on the last day of the preceding financial year (FY 2019-20).
- c) In case the bidder or collaborator does not satisfy the financial criteria regarding Average annual financial turnover during the last 3 financial years and Net Worth on its own, then the financial credentials of its holding company shall be submitted along with letter of undertaking from its Holding company supported by the Legal Document pledging unconditional and irrevocable financial & technical support to the bidder for the execution of the contract for five years from the last month of the date of bidding or till completion of defect liability period whichever is later.
- d) The deed of joint undertaking (DJU) & Collaboration agreement/ TLA should be submitted along with the Techno-commercial bid.



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Bidders to note that:

- 1) Notes for 5.1 (A) 2 and 5.1 (B) 2
 - (i) In case of Foreign currency(ies) conversion factor shall be the TT Buying exchange rate of SBI as on the date bid opening (Stage-I).
 - (ii) Net Worth means the sum total of the paid up share capital and free reserves. Free reserve means all reserves credited out of the profits and share premium account and 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.
- 2) The bidder should submit the documentary evidence such as audited profit & loss statement, Net Worth statement, Balance sheet etc.
- 3) Direct/ Indirect Order:

The Bidder/ QDSIM shall also be considered qualified, in case the award for executing the reference works has been received by the Bidder/ QDSIM either directly from owner of plant or any other intermediary organization. However, a certificate from such owner of plant or any other intermediary organization shall be required to be furnished by the bidder along with its bid proposal (Stage-I) in support of the Bidder's/QDSIM claim of meeting the qualification requirement as per clause 5.0 above. Further, certificate from the owner of the plant shall also be furnished by the bidder along with the Techno-commercial bid for the successful operation.
- 4) Definitions
 - (i) "QDSIM" (Qualified Dry Sorbent Injection System Manufacturer) means a manufacturer meeting requirements stipulated at clause 5.1 (A)& 5.1 (B)
 - (ii) Whenever the term 'coal fired' is appearing above, "Coal" shall be deemed to also include bituminous coal/brown coal/ Anthracite coal/lignite.
 - (iv) Whenever the term "Sodium Bicarbonate" is appearing above, "Sodium Bicarbonate" shall be deemed to also include Trona (sodium sesquicarbonate / Sodium sesquicarbonate dihydrate).
 - (v) Subsidiary Company means a company in which the Holding company exercises or controls more than one-half of the total share capital either at its own or together with one or more of its subsidiary companies. Such control should be for minimum 5 years or till completion of defect liability period of the allotted FGD project (Dry Sorbent Injection System using Sodium Bicarbonate as reagent) whichever is later.

5.2.All above Qualifying Requirements should be read in totality and not in isolation.



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5.3. The deed of joint undertaking (DJU) & collaboration agreement/ consortium agreement/ TLA should be submitted along with the Techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. The DJU shall be submitted by the Bidder, QDSIM, Subsidiary Company/ Joint Venture Company, Consortium Partner, Collaborator, TLA provider (As applicable). Deed of Joint Undertaking (DJU) executed by the bidder and the QDSIM, in which the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the Dry Sorbent Injection System including meeting the technical guarantees.

5.4. In case of award of a project, the QDSIM (in case of joint participation -when routed through either 5.1.A.1(b) or ROUTE-2, i.e., 5.1(B)) will be required to furnish guarantee for an amount of 2 % of the total contract price of the Dry Sorbent Injection System Package in addition to the contract performance security to be furnished by the Bidder.

5.5. Notwithstanding anything stated above, the Owner reserves the right to assess Bidder's capability and capacity to perform, should the circumstances warrant such assessment in the overall interest of the Owner.

5.6. WBPDC 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.

WBPDC reserves the right not to accept Qualified Dry Sorbent Injection System Manufacturer (QDSIM) in such cases where the participating enterprise has origin or carries out business from a "Prior reference" country as indicated by order no. 25-11/6/2018-PG dated 02.07.2020 of Ministry of Power, Govt. of India.

6.0 Downloading and submission of bidding documents will not be construed to mean that such Bidders are automatically considered qualified.

7.0 Bids are to be submitted online through the E-tender portal(<https://eps.buyjunction.in>) . All the documents uploaded by the Tender Inviting Authority, form an integral part of the bid. Bidders are to keep track of all the Addendum / Corrigendum issued against the particular NIT and download copies of the above documents and merge the Addendum / Corrigendum with respective NIT.

For any technical clarification contact:

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