



The West Bengal Power Development Corporation Limited
(A Government of West Bengal Enterprise)
BIDYUT UNNAYAN BHABAN
Plot – 3/C, LA, Block, Sector – III, Bidhannagar, Kolkata 700106

NOTICE INVITING TENDER (NIT) No.

WBPDC/CORP/NIT/E1377/20-21 dated. 12.11.2020

Tender Document

For

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

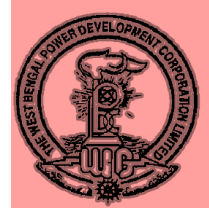
SPECIFICATION NO.: KT-DSI-01

DOCUMENT NO. : 2020-DSI-A-001

**The West Bengal Power Development Corporation Limited
(A Government of West Bengal Enterprise)**

Registered & Corporate Office:

Bidyut Unnayan Bhawan,
Plot No. - 3/C, Block - LA,
Sector – III, Salt Lake City,
Kolkata – 700 106



**INVITATION FOR 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**

DOMESTIC COMPETITIVE BIDDING

Notice Inviting Tender No. WBPDC/CORP/NIT/E1377/20-21 dated. 12.11.2020

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.

3.0 TIME OF COMPLETION:

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

4.0 DETAILS OF TENDER:

- Date of Publication of the tender document** : 13.11.2020 at 17:00 hrs.
- Pre-bid queries submission end date** : 10.12.2020 within 15:00 hrs.
- Date, Time & Venue of Pre-Bid Discussion** : Will be held at the Corporate Office of WBPDCCL, Kolkata, India/ virtual mode on 14.12.2020, 15.12.2020 and 16.12.2020 at 11:00 Hours (IST) .
- Date, Time & Venue of demonstration of Bid submission** : Corporate Office of WBPDCCL, Kolkata, India on 23.12.2020 at 11:30 Hours (IST)
- Last Date and Time for Submission of complete bid for Stage-I** : 07.01.2021 at 12:00 hrs.

- f) **Place, Date & Time for Opening of Tender** : WBPDCCL Corporate Office, Kolkata, India .
07.01.2021 at 14.00 hrs.
- g) **Earnest Money physical submission at Corporate Office.** : As mentioned in clause no. 17 and clause no. 12.1 of the volume –I ,sec-II (ITB) of the NIT.
- h) **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 . Refer to ITB 17 (Volume –I , Section-II) for further details.

The bidder shall furnish as part of its bid , bid security as specified above , in original and in the amount specified above, seven days before the techno-commercial bid submission (Stage-I) end date at the office of the GM(M&C),WBPDCCL , Corporate Office. Please note that after uploading of the scanned copy of the bid security document, the same will be approved by the tendering authority confirming the receipt of the same in original to the GM(M&C),WBPDCCL. Afterwards bidder can submit the techno-commercial bid as uploaded in the tender-portal.

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

5. QUALIFICATION REQUIREMENT AND ELIGIBILITY CRITERIA FOR BIDDERS

The Bidder should be an Indian Company registered in India under the Companies Act of India meeting any of the qualifying routes i.e Route-1 (clause 5.1.1) or Route-2 (clause 5.1.2) including requirements stipulated in sub clauses of respective Route. In addition, the Bidder should also meet the requirements stipulated under clause 5.2.0 together with the requirements stipulated under clause 5.1.1 and 5.1.2.

Documentary evidence (end users completion certificate) in support of criteria fulfillment for each of the clauses mentioned in the Qualification requirement need to

be submitted for owner's satisfaction by the bidder and/or his Collaborator as the case may be .

5.1.1 ROUTE-1: Qualified Dry Sorbent Injection System Manufacturer (QDSIM)

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 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).

5.1.2 ROUTE-2: EPC Organization with Collaboration and Licensing Agreement with QDSIM

5.1.2.1 The Bidder should be an Engineering, Procurement and Construction (EPC) organization and should have executed, in the last 10 years, industrial projects on EPC basis (with or without civil works) in the area of power, steel, oil & gas, petro-chemical, fertilizer, Flue Gas Desulphurization and / or any other process industry during last 10 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. 640.00 Million.



OR

Two Completed works costing not less than the amount of Rs. 800.00 Million.

OR

One Completed works costing not less than the amount of Rs. 1280.00 Million.

5.1.2.2 Bidder should also have a valid ongoing collaboration and licensing agreement with a QDSIM meeting requirements of clause 5.1.1, valid minimum up to the end of the defect liability period of the contract. In such a case Bidder can either source the Dry Sorbent Injection System from such manufacturer or manufacturer/get manufactured the Dry Sorbent Injection System as per the design and manufacturing drawings released by such QDSIM.

5.1.2.3 The Bidder shall furnish a Deed of Joint Undertaking (DJU) executed by it 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. The DJU shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.

5.1.2.4 In case of award of a project, the QDSIM will be required to furnish an on demand bank guarantee for an amount of 5 % of the total contract price of the Dry Sorbent Injection Injection System Package in addition to the contract performance security to be furnished by the Bidder.

Notes for clause 5.0

(1) Definitions

- (i) “QDSIM” (Qualified Dry Sorbent Injection System Manufacturer) means a manufacturer meeting requirements stipulated at clause 5.1.1
- (ii) Whenever the term 'coal fired' is appearing above, "Coal" shall be deemed to also include bituminous coal/brown coal/ Anthracite coal/lignite.
- (iii) Whenever the term “Sodium Bicarbonate” is appearing above, "Sodium Bicarbonate" shall be deemed to also include Trona (sodium sesquicarbonate / Sodium sesquicarbonate dihydrate).

(2) Erection/Commissioning

Where erection / supervision of erection and commissioning / supervision of commissioning has not been in the scope of the Bidder as mentioned in clause 5.1.1 the Bidder should have acted as an advisor for erection and commissioning. Necessary documents / certificates from the client, in support of above shall be furnished along with the Techno-Commercial bid.

(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.

5.2 Financial Criteria:

Bidder and its Collaborator (if any) shall submit its audited financial statements for the last 3 financial years from the date of 1st Stage Bid submission for verification and in support of their compliance of the financial criteria.

5.2.1 Financial Criteria of Bidder

5.2.1.1 The average annual turnover , in the preceding three (3) financial years as on the date of techno-commercial bid opening (Stage-I), should not be less than **INR 480 Million (Rupees Four Hundred Eighty Million)**

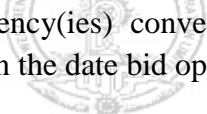
5.2.1.2 The Net Worth, as on the last day of the preceding financial year as on the date of techno commercial bid opening (Stage-I) should not be less than 100% of the paid-up share capital.

5.2.2 Financial Criteria of QDSIM (in case bidder is an EPC Organization with Collaboration and Licensing Agreement with QDSIM)

5.2.2.1 The average annual turnover, in the preceding three (3) financial years as on the date of techno-commercial bid opening (Stage-I), should not be less than **INR 67 Million (Rupees Sixty Seven Million)**

5.2.2.2 The Net Worth, as on the last day of the preceding financial year as on the date of techno commercial bid opening (Stage-I) should be positive.

Notes for clause 5.2

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- (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.

6.0 On the basis of a written application reflecting bidder's interest to participate the bid, link for downloading of tender documents shall be shared. Written application must be addressed to The General Manager (M & C), WBPDC, Bidyut Unnayan Bhawan, Plot No. - 3/C, Block - LA, Sector – III, Salt Lake City, Kolkata – 700 098 and can be submitted from Monday to Friday (excluding Saturdays, Sundays & Holidays) from 11.00 Hours (IST) to 16.00 Hours (IST) during all working days.

7.0 The offer must accompany the Earnest Money as indicated above failing which it will be summarily rejected.

8.0 WBPDCCL 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.

9. WBPDCCL 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..

10. Contact Details: D. Chowdhury. Dy GM (M&C), WBPDCCL.

E-mail : dchowdhury@wbpdcl.co.in

Phone No. : 8336903884

12. Permanent Address of WBPDCCL Corporate Office for future correspondences and all other forthcoming related activities pertaining to subsequent processing of tender, award of contract etc. shall be as below:

**The General Manager (M&C)
The West Bengal Power Development Corporation Limited,
Bidyut Unnayan Bhawan, Plot No. - 3/C, Block - LA,
Sector - III, Salt Lake City, Kolkata - 700 098 ,
WEST BENGAL ,INDIA**



13. For any technical clarification contact:

Susanta Kumar Sarkar
The General Manager (R&M)
Contact number: 8336903964
E-mail : s.sarkar@wbpdcl.co.in

**The West Bengal Power Development Corporation Limited,
Bidyut Unnayan Bhawan, Plot No. - 3/C, Block - LA,
Sector - III, Salt Lake City, Kolkata - 700 098 ,
WEST BENGAL ,INDIA**