



Maharashtra State Power Generation Company Ltd.

(Govt. Of Maharashtra Undertaking)

Project and Planning Department, "Prakashgad"
3rd Floor, Bandra (East), Mumbai-51

Notice Inviting Tender

Tenders are invited for --- "Open Tender for Installation of Dry Sorbent Injection based Flue Gas Desulphurization (FGD) System package for 210 MW Units of MAHAGENCO at Khaparkheda Unit 1 to 4, Koradi Unit 6 &7 and Chandrapur Unit 3 & 4 (Total 8 Nos.)."

(Tender Code (RFx) No. 3000015142)

The detailed NIT and prequalification requirements can be viewed on Mahagenco website www.mahagenco.in under Tenders --- Head office Tenders and <http://eprocurement.mahagenco.in>.

For accessing the tender document visit our website: -

<http://eprocurement.mahagenco.in>. The bidders already registered for Mahagenco SRM E-tendering system can access/download the tender after due payment of tender fee. The tender document will be available for online sale from 24.02.2021 to 06.04.2021.

For the bidders who are not registered with Mahagenco SRM e-tendering system are required to be registered with Mahagenco. Registration will be done after furnishing and physical verification of the required documents/details of the company. The registration procedure is given on <http://eprocurement.mahagenco.in> in Documentation section.

The bidders are required to visit www.mahagenco.in and or <http://eprocurement.mahagenco.in> for corrigendum/amendments, if any at a future date.

For further clarification, following engineers of Project & Planning can be contacted on

- 1) Supdt. Engineer, Project & Planning 022-26474211(Extn:2304) / Mob.No.8879770703
- 2) Executive Engineer, Project & Planning 022-26474211(Extn:2465) / Mob.No.8879770725

Email: - cgmpp@mahagenco.in / segpp1@mahagenco.in / eegpp14@mahagenco.in.


Sd/-
Chief Engineer(P&P),

Schedule of Tender (RFx) No. 3000015142

“Open Tender for Installation of Dry Sorbent Injection based Flue Gas Desulphurization (FGD) System package for 210 MW Units of MAHAGENCO at Khaparkheda Unit 1 to 4, Koradi Unit 6 &7 and Chandrapur Unit 3 & 4 (Total 8 Nos.)”

Sr.	Activity	Date
1	Start Date of Acceptance of Tender Fee by MAHAGENCO and Download of Tender Document.	24.02.2021, 15:00 Hrs
2	Last Date of Acceptance of Queries / Comments from Bidders.	10.03.2021, 16:00 Hrs
3	Pre Bid Meeting.	12.03.2021, 11:00 Hrs
4	Last Date of Acceptance of Tender Fee By MAHAGENCO and Download of Tender Document	05.04.2021, 13:00 Hrs
5	Last Date for Submission of Online Bid (Techno-Commercial and Price Bids) along with Bid Security Declaration.	06.04.2021, 17:00 Hrs
6	Last Date for Submission of Bid (Techno-Commercial) in Physical form along with original Bid Security Declaration.	07.04.2021, 13:00 Hrs
7	Due Date for Opening of Techno-Commercial Bids	07.04.2021, 15:00 Hrs
8	Opening of Price Bid of Qualified Bidders	Will be intimated by mail

Sd/-
Chief Engineer (P&P),

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MAHARASHTRA STATE POWER GENERATION CO. LTD. (MAHAGENCO)
Projects and Planning Department
3rd Floor, Prakashgad, Prof. Anant Kanekar Marg,
Bandra (East), Mumbai - 400 051

IFB No.: CE/P&P/210 MW FGD/ 3000015142


Date: 24.02.2021

DETAILED INVITATION FOR BIDS (IFB)
(LOCAL COMPETITIVE BIDDING)
FOR
DRY SORBENT INJECTION (DSI) FLUE GAS DESULPHURISATION (FGD)
SYSTEM and AUXILIARIES
FOR
210 MW UNITS OF MAHAGENCO,
AT KHAPERKHEDA, KORADI AND CHANDRAPUR THERMAL POWER
STATIONS

- 1.0** Maharashtra State Power Generation Co. Ltd. (MAHAGENCO), invites bids in two bid system (Part - 1: Techno-commercial Bid and Part 2: Price Bid) for Design, Engineering, Manufacture, Assembly, Testing at Works, Supply at Site; Civil, Structural & Architectural Works and Erection, Testing & Commissioning of DSI FGD System and Auxiliaries on Engineering Procurement & Construction (EPC) Basis from eligible bidders for following units :

Schedule	Bidder participating for following station	Unit No
A	Khaperkheda 4x210 MW TPS	1,2,3,4
B	Koradi 2x210 MW TPS	6,7
	Chandrapur 2x210 MW TPS	3,4

- 2.0** The bid specification can be purchased online upon payment of INR 35,400(in words INR Thirty Five Thousands and Four Hundred Only) i.e. Rs.30,000 (Basic cost) + Rs.5,400 (GST@18%) thereon through Mahagenco's E-tendering System as per schedule.


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3.0 The schedule for the bidding shall be as under:

Sr. No.	Event	Date(s)
1.	Start Date of Acceptance of Tender Fee and Download of Tender Document	24.02.2021, 15.00 Hrs.
2.	Last Date for Acceptance of Queries/Comments from bidders.	10.03.2021, 16.00 Hrs.
3.	Pre-bid Conference	12.03.2021, 11.00 Hrs.
4.	Last Date of acceptance of Tender Fee and Download of Tender Document	05.04.2021, 13.00 Hrs.
5.	Last Date for submission of Online bid (Techno-commercial and Price Bids)	06.04.2021, 17:00 Hrs.
6.	Last Date for submission of bid (Techno-commercial) in physical form.	07.04.2021, 13:00 Hrs.
7.	Due Date for Opening of Part - 1 Bid (Techno-commercial Bid)	07.04.2021, 15:00 Hrs.
8.	Due date for opening Part - 2 bids i.e. Price bids of qualified bidders	Shall be notified later

4.0 Minimum Qualifying Requirements for the Bidders:

4.1 The Bidder should meet the qualifying requirements stipulated in any one of the qualifying routes i.e. Route- 4.1(A) or 4.1(B) in addition to the other conditions stipulated under Instructions to Bidders:


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(A) Bidding as Qualified Dry Sorbent Injection System Manufacturer (QDSIM)

Technical Criteria

- a) The Bidder should have designed, engineered, supplied, erected/supervised erection and commissioned/supervised commissioning of at least one (1) no. of Dry Sorbent Injection System, in a coal fired unit, having flue gas flow of not less than 4,00,000 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.
- b) Foreign based QDSIM shall participate through following route:
- i) Its subsidiary company in India.
 - ii) Forming JV with Indian Company registered in India.
 - iii) Consortium with Indian Company registered in India. (Consortium leader shall be Indian partner)
- The bidder in this case shall be one of the Sr. No. i to iii above.
- c) QDSIM should submit performance certificate regarding satisfactory operation of FGD system 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.


Financial Criteria:


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- a) Average Annual financial turnover of the bidder and QDSIM consortium partner(s) individually during last 3 years, ending 31st March of the previous financial year, 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	Rs. 53.40 Cr.
QDSIM, Consortium each partner	Rs. 53.40 Cr.

- b) The Net Worth of bidder and QDSIM consortium partner (in case of Consortium) individually as on the last day of the preceding financial year should be positive. (QDSIM consortium partner is the member of consortium who is holding FGD technology or FGD manufacturer.)
- c) In case the bidder or consortium partner does not satisfy the technical & financial criteria regarding Average annual financial turnover during last 3 financial years and Net worth on its own, then the technical & 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.

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<p>e) Any Bidder (including its Collaborator/Associate/DJU Partner/JV partner/ Consortium Member/Assignee, wherever applicable) from a country which shares a land border with India will be eligible to bid in this tender only if bidder is registered with the Competent Authority.</p> <p>(Reference : F.No.6/18/2019 PPD Ministry of Finance Department of expenditure public procurement Division, 161, North Block, New Delhi dated 23rd july 2020)</p> <p>(B) <u>Bidding as EPC Organization with collaboration and Technology Licensing Agreement with QDSIM :</u></p> <p><u>Technical Criteria</u></p> <p>The Bidder should meet the following requirements:</p> <p>a) The bidder should be an Engineering, Procurement and Construction (EPC) organization, based in India, and should have executed directly or through its subsidiaries, large industrial projects on EPC basis (with or without civil works) in the area of power, steel, oil & gas, petrochemical, fertilizer and /or any other process industry with total value of such projects being Rs.178.00 Cr. or more during last ten (10) years ending last day of month previous to one in which applications are invited.</p> <p>b) Such EPC project should have been in successful operation for a period not less than one (1) year within last 10 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.</p> <p>c) In addition to above, the bidder should be having valid collaboration agreement or technology licensing agreement (TLA) with QDSIM for</p>		

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minimum 5 years or till completion of defect liability period of the allotted FGD project whichever is later.

- d) QDSIM should submit performance certificate regarding satisfactory operation of FGD system 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.
- e) QDSIM is one who has designed, engineered, supplied, erected/supervised erection and commissioned/supervised commissioning of at least one (1) no. of Dry Sorbent Injection System, in a coal fired unit, having flue gas flow of not less than 4,00,000 Nm³/hr, with sulphur dioxide capture efficiency of at least 50%. The above Dry Sorbent Injection System should be using Sodium Bicarbonate as reagent.

Financial Criteria:

- a) Average Annual financial turnover of bidder and collaborator (in case of Collaboration) individually during last 3 years, ending 31st March of the previous financial year, 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	Rs. 53.40 Cr.
QDSIM Collaborator	Rs. 53.40 Cr.


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- b) The Net Worth of bidder and collaborator (in case of Collaboration) individually as on the last day of the preceding financial year should be positive.
- c) In case the bidder or collaborator does not satisfy the technical & financial criteria regarding Average annual financial turnover during last 3 financial years and Net worth on its own, then the technical & 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.
- e) Any Bidder (including its Collaborator/Associate/DJU Partner/JV partner/ Consortium Member/Assignee, wherever applicable) from a country which shares a land border with India will be eligible to bid in this tender only if bidder is registered with the Competent Authority.


(Reference : F.No.6/18/2019 PPD Ministry of Finance Department of expenditure public procurement Division, 161, North Block, New Delhi dated 23rd july 2020)


Bidders to note that:


- 1) **Erection/Commissioning:**


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<p>Where Erection / Supervision of Erection, Commissioning / Supervision of commissioning has not been in the scope of QDSIM, QDSIM 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.</p> <p>2) Net Worth means sum of paid up share capital and free reserves. Free reserves shall mean all reserves credited out of the profit and share premium account but not include reserves credited out of the revaluation of assets, write back of depreciation provision and amalgamation. Further, any debit balance and profit and loss account and miscellaneous expenses to the extent not adjusted or return off, if any, shall be reduced from the reserves and surplus. Other income shall not be considered for arriving at annual turnover.</p> <p>3) The bidder should submit the documentary evidence such as audited profit & loss Statement, Net Worth Statement. Balance sheet etc. In case audited results for the last preceding financial year are not available, certification of financial statement from practicing Chartered Accountant shall be acceptable.</p> <p>4) 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 the plant or any other intermediary organisation. However, a certificate from such owner of the plant or any other intermediary organisation shall be required to be furnished by the bidder along with its Techno-commercial bid in support of the bidders/QDSIM claim of meeting the</p>		

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<p>QR. Further, certificate from owner of the plant shall also be furnished by the bidder alongwith the Techno-commercial bid for the successful operation.</p> <p>5) Notes:</p> <p>(1) (Definitions)</p> <p>(i) "QDSIM" (Qualified DSI Flue Gas Desulphurisation System Manufacturer) means a manufacturer meeting requirements stipulated at 4.1 (A) & (B) above.</p> <p>(ii) Whenever the term coal fired is appearing above, coal shall be deemed to also include bituminous coal/ brown coal / anthracite coal / lignite.</p> <p>(iii) 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 whichever is later.</p> <p>(iv) "Flue Gas Desulphurisation System" or "FGD System" wherever appearing above shall mean consisting of DSI FGD System.</p> <p>(2) Erection/Commissioning:</p> <p>Where erection / supervision of erection and commissioning / supervision of commissioning has not been in the scope of the Bidder as mentioned in 4.1 (A) & 4.1 (B) above, 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.</p> <p>6) Restrictions under Rule 144(xi) of the General Financial Rules (GFRs), 2017</p> <p>i. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if, the bidder is registered with the</p>		

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<p>Competent Authority (As per F.No. 6/18/2019-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23.07.2020). The registration should be valid at the time of submission of bids and at the time of acceptance of bids.</p> <p>ii. "Bidder" means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial judicial person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.</p> <p>iii. Bidder from a country which shares a land border with India means :-</p> <ol style="list-style-type: none"> a. An entity incorporated, established or registered in such a country; or b. A subsidiary of an entity incorporated, established or registered in such a country ; or c. An entity substantially controlled through entities incorporated, established or registered in such a country; or d. An entity whose <i>beneficial owner</i> is situated in such a country; or e. An Indian (or other) agent of such an entity; or f. An natural person who is a citizen of such a country; or g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above. <p>iv. The <i>beneficial owner</i> for the purpose of d above will be as under :</p> <ol style="list-style-type: none"> a) In case of a company or Limited Liability Partnership, the beneficial owner is the natural persons(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means. <p>Explanation-</p> <ol style="list-style-type: none"> i. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company. ii. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions 		

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<p style="text-align: center;">including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.</p> <p>b) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.</p> <p>c) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals.</p> <p>d) Where no natural person is identified under (a) or (b) or (c) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;</p> <p>e) In case of trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.</p> <p>v. An agent is a person employed to do any act for another, or to represent another in dealings with third person.</p> <p>vi. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares land border with India unless such contractor is registered with the Competent Authority.</p> <p>4.2 All above Qualifying Requirements should be read in totality and not in isolation.</p> <p>4.3 The deed of joint undertaking (DJU) & collaboration agreement / consortium agreement / TLA should be submitted along with the Techno-commercial bid. The DJU shall be submitted by the Bidder, QDSIM, Subsidiary Company/Joint Venture Company, Consortium Partner, Collaborator, TLA provider (As applicable).</p>		

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<p>4.4 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.</p> <p>5.0 <u>TENDERING PROCESS</u></p> <p>5.1 Single Tender (E-Bid) for following two schedules for 8 Nos. of 210MW units is invited from eligible Indian Bidders for FGD system package on single stage, two envelope bidding basis.</p> <p style="padding-left: 40px;">Schedule-A: Khaperkheda U-1 to 4.</p> <p style="padding-left: 40px;">Schedule-B: Koradi U-6, 7 & Chandrapur U-3, 4.</p> <p>5.2 One Techno-commercial bid shall be filled by bidder for whole tender. Evaluation of Techno-commercial bids will be carried out for whole tender. Separate Price bid for each schedule is to be filled on-line by the bidder. Envelope-I - Techno-commercial Bid and Envelope-II - Two Price Bids [Schedule-A Price Bid- for 4 units of 210MW Schedule-B Price Bid- For 4 units of 210MW]</p> <p>5.3 Bid Security Declaration Form shall be taken from the prospective bidders as per recent MoF & GoM directives.</p> <p>5.4 Submission of price bid for both the schedules is mandatory for each bidder. Bidder is eligible to take work order for One Schedule only (maximum 4 units). Bidder shall not be considered eligible for qualification if price for only one schedule is quoted in the price bid.</p> <p>5.5 Selection of successful bidder for award of contract shall be done as detailed in Clause No. 31.7 Section-I.</p>		

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- 6.0** Bid Security: The bidder shall have to submit along with the bid, a Declaration in the format as per Annexure-II, duly notarised, on a stamp paper of Rs. 500/-.
- 7.0** MAHAGENCO does not bind itself to accept the lowest or any of the bids and reserves the right to accept any bid or reject any or all bids without assigning any reasons thereof.
- 8.0** MAHAGENCO reserves the right to withdraw this Invitation for Bids or cancel the bidding process at any time without assigning any reason for such decision.

Sd/-
Chief Engineer (P&P)
MAHAGENCO,
Mumbai -400 051