



MAHARASHTRA STATE POWER GENERATION CO. LTD.

Volume: I

Tender RFx : 3000010902

Section: IFB

REV: 00

INVITATION FOR BIDS (IFB)

Page : 1

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/250 MW/Paras FGD/EPC tender

Date: 21.05.2020

DETAILED INVITATION FOR BIDS (IFB)

(LOCAL COMPETITIVE BIDDING)

FOR

FLUE GAS DESULPHURISATION SYSTEM and AUXILIARIES

FOR

250 MW UNITS OF MAHAGENCO,

AT PARAS (2X250 MW) THERMAL POWER STATION

- 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) from eligible bidders on Engineering Procurement & Construction (EPC) Basis for Design, Engineering, Manufacture, Assembly, Testing at Works, Supply at Site; Civil, Structural & Architectural Works and Erection, Testing & Commissioning for Installation of Wet Limestone Flue Gas Desulphurisation System and Auxiliaries of 250 MW units at Paras TPS and Operation & Maintenance for 10 years of the installed FGD System and Auxiliaries for following units :

Bidder participating for following station	Unit No
Paras 2x250 MW	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.


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	21.05.2020, 10:00 Hrs.
2.	Last Date for Acceptance of Queries/Comments from bidders.	05.06.2020, 15:00 Hrs.
3.	Pre-bid Conference	12.06.2020, 11:00 Hrs.
4.	Last Date of acceptance of Tender Fee and Download of Tender Document	06.07.2020, 15:00 Hrs.
5.	Last Date for submission of Online bids (Techno-commercial and Price Bid)	07.07.2020, 15:00 Hrs.
6.	Last Date for submission of bids (Techno-commercial) in physical form along with original BG for EMD	08.07.2020, 15:00 Hrs
7.	Due Date for Opening of Part - 1 Bid (Techno-commercial Bid)	08.07.2020, 17:00 Hrs
8.	Due date for opening Part - 2 Bid i.e. Price bid of qualified bidders	Shall be notified later

4.0 Minimum Qualifying Requirements for the Bidders:

The bidder should meet below mentioned Qualifying Requirements in addition to the other conditions stipulated under Instructions to Bidders:

(A) Bidding through Qualified Wet Limestone based Flue Gas Desulphurization System Manufacturer (QFGDM)

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 3

Technical Criteria

The Bidder should meet the following requirements:

- a) The Bidder should be QFGDM. (QFGDM): Bidder should have designed, engineered, supplied, erected or supervised erection and commissioned or supervised commissioning of total contract for FGD installation in a pulverized Coal fired Power Plant, Wet Limestone based FGD system with single absorber having flue gas treatment capacity of flow not less than 6,00,000 Nm³/hr. for SO₂ removal.
- b) Foreign based QFGDM 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) QFGDM 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 two (2) years within last 7 years prior to the date of Techno-commercial bid submission.

Financial Criteria:

- a) Average Annual financial turnover of the bidder and consortium partner individually during last 3 years, ending 31st March of the previous financial year, should be more than values as indicated in table below:-

Bidder participating for following tender	Unit No.	Average Annual financial turnover during last three financial years (Rs. Cr.)
T Paras 2x250MW	3 & 4	Rs. 86 Cr.

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 4

- b) The Net Worth of bidder and consortium partner (in case of Consortium) individually as on the last day of the preceding financial year should be positive.
- c) In case the bidder or consortium partner does not satisfy the financial criteria regarding Average annual financial turnover during last 3 financial years and Net worth on its own, then the financial & technical 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 / TLA should be submitted along with the Techno-commercial bid.

(B) Bidding as EPC Organization of FGD System, should fulfill all the following requirements.

Technical Criteria

The Bidder should meet the following requirements:

- a) The bidder should be an Engineering, Procurement and Construction (EPC) organization, based in India, and should have carried out installation of Wet Limestone based FGD system with single absorber capacity of treating flue gas flow not less than 6,00,000 Nm³/hr. for SO₂ removal in a pulverized Coal fired Power Plant on EPC basis.
- b) Such FGD system should have been in successful operation for a period not less than two (2) years 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.




- c) In addition to above, the bidder should be having valid collaboration agreement or technology licensing agreement (TLA) with QFGDM for minimum 5 years or till completion of defect liability period of the allotted FGD project whichever is later.
- d) QFGDM 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 two (2) years within last 7 years prior to the date of Techno-commercial bid submission.
- e) QFGDM is one who has designed, engineered, supplied, erected or supervised erection and commissioned or supervised commissioning of total contract for FGD installation in a pulverized Coal fired Power Plant, Wet Limestone based FGD system with single absorber having flue gas treatment capacity of flow not less than 6,00,000 Nm³/hr. for SO₂ removal.

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:-

Bidder participating for following tender	Unit No.	Average Annual financial turnover during last three financial years (Rs. Cr.)
Paras 2x250MW	3 & 4	Rs. 86 Cr.

- 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 financial criteria regarding Average annual financial turnover during last 3 financial years and Net worth on its own, then the financial & technical 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

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 6

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.

(C) Bidding as a Steam Generator Manufacturer, should fulfill all the following requirements.

Technical Criteria

The Bidder should meet the following requirements:

- a) The Bidder, based in India, should have Designed, Engineered, Manufactured or got manufactured, Erected or Supervised Erection, Commissioned or Supervised Commissioning of Steam Generator in a single contract for Pulverized Coal Fired Power Plant of 200MW or higher capacity unit.
- b) The above Steam Generator 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.
- c) In addition to above, the bidder should be having valid collaboration agreement or technology licensing agreement (TLA) with QFGDM for minimum 5 years or till completion of defect liability period of the allotted FGD project whichever is later.
- d) QFGDM 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 two (2) years within last 7 years prior to the date of Techno-commercial bid submission.

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 7

- e) QFGDM is one who has designed, engineered, supplied, erected or supervised erection and commissioned or supervised commissioning of total contract for FGD installation in a pulverized Coal fired Power Plant, Wet Limestone based FGD system with single absorber having flue gas treatment capacity of flow not less than 6,00,000 Nm³/hr. for SO₂ removal.

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:-

Bidder participating for following tender	Unit No.	Average Annual financial turnover during last three financial years (Rs. Cr.)
Paras 2x250MW	3 & 4	Rs. 86 Cr.

- b) The Net Worth of bidder and collaborator (in case of Collaboration) as on the last day of the preceding financial year should be positive.
- c) In case the bidder or collaborator does not satisfy the financial criteria regarding Average annual financial turnover during last 3 financial years and Net worth on its own, then the financial & technical 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.

(D) Bidding as EPC Organization with collaboration and Technology Transfer Agreement with QFGDM, should fulfill all the following requirements.

Technical Criteria

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 8

The Bidder should meet the following requirements:

- a) The bidder should be an Engineering, Procurement and Construction (EPC) organization, based in India, and should have executed, in the last 7 years, 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. 343.20 Cr. or more. In the above projects of value Rs.343.20 Cr. at least one of such projects (in single or multiple contract) should have total contract value of Rs.228.80 Cr. or more during last seven (7) years ending last day of month previous to one in which applications are invited.
- b) 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.
- c) In addition to above, the bidder should be having valid collaboration agreement or technology licensing agreement (TLA) with QFGDM for minimum 5 years or till completion of defect liability period of the allotted FGD project whichever is later.
- d) QFGDM 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 two (2) years within last 7 years prior to the date of Techno-commercial bid submission.
- e) QFGDM is one who has designed, engineered, supplied, erected or supervised erection and commissioned or supervised commissioning of total contract for FGD installation in a pulverized Coal fired Power Plant, Wet Limestone based FGD system with single absorber having flue gas treatment capacity of flow not less than 6,00,000 Nm³/hr. for SO₂ removal.

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:-

Bidder participating for following tender	Unit No.	Average Annual financial turnover during last three financial years (Rs. Cr.)
Paras 2x250MW	3 & 4	Rs. 86 Cr.

- 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 financial criteria regarding Average annual financial turnover during last 3 financial years and Net worth on its own, then the financial & technical 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.

Bidders to note that:

- 1) Please note that, 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.

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 10

2) 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.

3) Direct/ Indirect Order:

The Bidder/QFGDM shall also be considered qualified, in case the award for executing the reference works has been received by the bidder/QFGDM 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/QFGDM claim of meeting the QR.


4) QFGDM with Multiple Technology:

QFGDM can participate either as bidder or as a Collaborator. However, in case QFGDM have Two Types of Wet Lime Stone based FGD Technologies then only QFGDM is allowed to participate in maximum Two Bids as under --

- i) As a bidder offering one type of Technology and as a collaborator with another Bidder offering other type of Technology.
- ii) As a Collaborator with Two different Bidders offering two different types of Technologies.
 - a) In such case, Bidder would be required to provide documents/details including patents (if any) in support of having two different types of Technologies offered separately in Two Different Bids.
 - b) QFGDM with multiple technologies shall participate in bidding with different routes only.

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.

6) The successful Bidder (Contractor), within 30 days from the date of issuance of the LOA, shall submit the Bank Guarantees as under:

	MAHARASHTRA STATE POWER GENERATION CO. LTD.	Volume: I
	Tender RFx : 3000010902	Section: IFB
REV: 00	INVITATION FOR BIDS (IFB)	Page : 11

- i) Contract Performance BG amounting 10% of the EPC contract cost & BG amounting 20% of O&M contract cost of the FGD system.
- ii) On demand bank guarantees issued on behalf of every executants of the Deed(s) of joint Undertaking except for the bidder amounting as below:
 - a) In case of 1 DJU partner – 1.5% of the contract price.
 - b) In case of 2 DJU partners – 0.75% each of the contract price.
 - c) In case of 3 and above DJU partners – 0.5% each of the contract price.

- iii) On demand bank guarantees issued on behalf of every executants of the Consortium except for the bidder amounting as below:
 - a) In case of 1 Consortium partner – 5% of the contract price.
 - b) In case of 2 Consortium partners – 2.5% each of the contract price.

Consortium partners submitting the above bank guarantees are not required to submit the bank guarantees against the DJU.

- 7) All above Qualifying Requirements should be read in totality and not in isolation.

5.0 TENDERING PROCESS

5.1 Single Tender (E-Bid) for FGD System for of 250 MW units (Units-3 & 4) at Paras thermal power station Units – 3 & 4 is invited from the eligible Indian Bidders on single stage, two envelope bidding basis. Envelope-I - Techno-commercial Bid and Envelope-II – Price Bids for the brief scope of work mentioned in relevant section.

6.0 Bid Security: The bidder shall have to submit an interest free Bid Security i.e. unconditional Earnest Money Deposit (EMD) amounting to INR 2,86,00,000/- (In words INR Two Crore Eighty Six Lakh only) along with the bid in the form stipulated in the bid specification.

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.



MAHARASHTRA STATE POWER GENERATION CO. LTD.

Volume: I

Tender RFx : 3000010902

Section: IFB

REV: 00

INVITATION FOR BIDS (IFB)

Page : 12

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)