



MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF COMMUNICATION BASED SIGNALLING & TRAIN CONTROL, TELECOMMUNICATION & PLATFORM SCREEN DOORS SYSTEM FOR MAIN LINE & DEPOT OF LINE 6 [SWAMI SAMARTH NAGAR TO VIKHROLI (EEH)] OF MUMBAI METRO RAIL PROJECT OF MMRDA.

CONTRACT NO: MMRDA/6/MMRP/CA-132

TENDER DOCUMENTS

INVITATION FOR BIDS (IFB)

**MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
Metro PIU, 1st Floor, A-wing, Old Administrative Building, Bandra-Kurla Complex,
Bandra (E), Mumbai –400 051, India**

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Invitation for Bids

[Letterhead of the Employer]

Date: - 28.04.2023

Loan/Grant No. and Title **20IN01**

Contract No. and Title MMRDA/6/MMRP/CA-132:DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF COMMUNICATION BASED SIGNALLING & TRAIN CONTROL, TELECOMMUNICATION & PLATFORM SCREEN DOORS SYSTEM FOR MAIN LINE & DEPOT OF LINE 6 [SWAMI SAMARTH NAGAR TO VIKHROLI (EEH)] OF MUMBAI METRO RAIL PROJECT OF MMRDA.

1.0 **Deadline for Submission of Bids:**

1.1. The MMRDA has received financing from the New Development Bank (NDB) towards the cost of “**DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF COMMUNICATION BASED SIGNALLING & TRAIN CONTROL, TELECOMMUNICATION & PLATFORM SCREEN DOORS SYSTEM FOR MAIN LINE & DEPOT OF LINE 6 [SWAMI SAMARTH NAGAR TO VIKHROLI (EEH)] OF MUMBAI METRO RAIL PROJECT OF MMRDA**”, and it intends to apply part of the proceeds of the financing to payments under the Contract named above. Bidding is open to Bidders from eligible source countries of NDB.

2.0 The Mumbai Metropolitan Region Development Authority (MMRDA) (“the Employer”) invites bid from eligible Bidders for the same work.

Key Details

Completion Period of the Work	49 months (ROD within 37 months)
Estimated Cost of Works	INR 255.89 Cr (excluding taxes)
Bid Security (EMD)	<p>INR 1.28 Cr</p> <p>The Bidder shall submit the Bid Security (EMD) in the following forms:</p> <p>a) INR One lakh should be paid (online payment gateway or RTGS/NEFT mode).</p> <p>AND</p> <p>b) Balance Bid Security (EMD) in the form of Bank Guarantee or Demand Draft/Pay Order/ Bank draft</p>
Tender Documents on Sale	From (02.05.2023) (From 11:00 hrs) to (19.06.2023) (up to 11:00 hrs.) on Government of Maharashtra’s Mahatender portal https://mahatenders.gov.in/nicgep/app

	Tender document can only be obtained online after registration of tenderer on the e-tendering portal of Government of Maharashtra.
Cost of Tender Documents	<p>INR 5000 +18% GST</p> <p>Cost of Tender Documents shall be Non-Refundable.</p> <p>Tender Document and Supporting can be downloaded for reference purpose from Government of Maharashtra's GoM Mahatender Portal https://mahatenders.gov.in/nicgep/app during the period mentioned in the Tender Notice.</p>
Pre-Bid meeting	(11.05.2023) at (1100 hrs)
Last date of Seeking Clarifications	(22.05.2023) up to (1730 hrs) Queries / Clarifications from Bidders after due date and time shall not be acknowledged.
Last date of issuing addendum	(31.05.2023)
Date & Time of Submission of Tender Online	(19.06.2023) up to (1500 hrs)
Date & Time of Tender Closing	From (19.06.2023) (1501 hrs) to (19.06.2023) (1800 hrs)
Date & Time of opening of Tender online	From (20.06.2023) at 1100 hrs
Authority for purchase of Tender documents, seeking clarifications and submission of complete Tender documents	<p>Director (System) – Metro PIU, 1st Floor, A-Wing, Old Administrative Building Mumbai Metropolitan Region Development Authority (MMRDA), Bandra Kurla Complex, Bandra (East), Mumbai – 400051, Phone – 91 (22) 26597552 Email: metropiu.systems@mailmmrda.maharashtra.gov.in For Technical Support - support-eproc@nic.in , OR Call us on : 0120-4001005 / 0120-6277787 002, 91 (22) 26597656 Website – https://mmrda.maharashtra.gov.in https://mahatenders.gov.in/nicgep/app</p>

3.0 Open Competitive Bidding will be conducted in accordance with NDB's Single Stage Two Envelope procedure and is open to all Bidders from eligible countries as described in Bidding Document.

4.0 Only Eligible Bidders with the following key Qualifications defined in the Bidding Document may participate in this Bidding.

4.1 **Minimum Eligibility Criteria:**

4.1.1 **Work Experience:**

- **General Construction Experience:** Experience under the Construction Contracts in the role of prime contractor, JV Member or Management Contractor for at least the last 10 years ending last day of the month previous to the month of tender submission.
- **Specific Construction and Contract Management:**

(A) Work Experience Requirements for Train Control and Signalling Systems:

The applicant (or the concerned member of JV/Consortium) should have successfully carried out the following work(s) in the last 10 (TEN) years ending last day of the month previous to the month of tender submission.

- (i) At least one similar* work of Design, Supply, Installation, Testing and commissioning of Signalling & Train Control system using radio based CBTC with moving block including CBI & ATP subsystem in Metro Rail of value not less than **INR 92.50 Cr.**
OR
 At least two similar* works, each of Design, Supply, Installation, Testing and commissioning of Signalling & Train Control system using radio based CBTC with moving block including CBI & ATP subsystem in Metro Rail of value not less than **INR 57.82 Cr.**
OR
 At least three similar* works, each of Design, Supply, Installation, Testing and commissioning of Signalling & Train Control system using radio based CBTC with moving block including CBI & ATP subsystem in Metro Rail of value not less than **INR 46.25 Cr.**
- (ii) At least two CATC works (out of which at least one CBTC) shall be outside the country of origin/country of manufacture or in India.
- (iii) In the above CBTC work(s) under Clause (A) (i), CBI & ATP subsystem shall be from OEMs under same parent company. Applicant must have experience of integration of all major subsystems (Interlocking, ATP, ATS and Radio) in a CBTC project.
- (iv) Applicant must have experience of integration of Signalling system with all subsystems (Civil, Rolling stock, Telecommunication, Track, Traction,

- Platform screen door) in at least one CBTC work out of the work(s) submitted in support of work experience under Clause (A) (i).
- (v) At least one 10 Route Km of UTO has been commissioned and proven for one year with satisfactory operation by any of the group company under same parent company.

AND

(B) Work Experience Requirements for Telecommunication Systems:

The applicant (or the concerned member of JV/Consortium) should have successfully carried out the following work(s) in the last 10 (TEN) years ending last day of the month previous to the month of tender submission.

- (i) At least one similar** work of Design, Supply, Installation, Testing and commissioning of Telecommunication Systems of value of minimum **INR 52.17 Cr**

OR

At least two similar** works, each of Design, Supply, Installation, Testing and commissioning of Telecommunication Systems of value of minimum **INR 32.61 Cr**

OR

At least three similar** works, each of Design, Supply, Installation, Testing and commissioning of Telecommunication Systems of value of minimum **INR 26.08 Cr**

- (ii) If the bidder is a Foreign bidder or JV/Consortium and has a foreign partner and above work(s) have been done by the Foreign Bidder / foreign partner of JV and such work(s) were done in the country of the Foreign Bidder / foreign partner then in addition to this, the foreign partner must have done at least one work of value **INR 26.08 Cr** outside the country of Origin

AND

(C) Work Experience requirement for PSD/PSG Systems.

The applicant (or the concerned member of JV/Consortium or Specialized subcontractor) should have successfully carried out the following work(s) in the last 10 (TEN) years ending last day of the month previous to the month of tender submission.

- (i) One Similar*** work of **INR 60.04 Cr** or more

OR

Two Similar*** works of **INR 37.53 Cr** or more

OR

Three Similar*** works **INR 30.02 Cr** or more Comprising of design, manufacture supply, installation, testing, commissioning of Platform Screen Door (PSD, PSG, EED, PED, FS, PSL, PSC).

- (ii) Design, Supply, Installation, Testing and Commissioning of Platform Screen Door System (PSD) System at least 240 PSD /PED/PG Doors in metro environment shall be in satisfactory operation for at least 1 (one) year works for metro railway station or other infrastructure such as Monorail/ Highspeed Rail with complete Platform Screen Door System (PSD) System including PSD, EED, PED, FS, PSL, PSC
- (iii) If the bidder is a Foreign bidder or JV/Consortium and has a foreign partner and above work(s) have been done by the Foreign Bidder / foreign partner of JV and such work(s) were done in the country of the Foreign Bidder / foreign partner then in addition to this, the foreign partner must have done at least one work of value **INR 30.02 Cr** outside the country of Origin

The similarity shall be based on the physical size, complexity, methods/technology and/or other characteristics described in Section 6- Scope of Works. Summation of number of small value contracts (less than the value specified under requirement) to meet the overall requirement will not be accepted.

*Similar Work(s) means design, manufacture, supply, installation, testing and commissioning of CBTC/UTOs for Metro Rails System which are Substantially# complete and Client (or end user) has issued Certificate.

**Similar Work(s) means design, manufacture, supply, installation, testing and commissioning of Telecommunications for Railway Station(s) / Metro Station(s) / Airport(s) / Monorail / High Speed Rails System involving at least 4 systems out of FOTS, CCTV, PABX, TETRA, PIDS, MCS, ACIDS & PAS which are Substantially# complete and Client (or end user) has issued Certificate.

***Similar Work(s) means design, manufacture supply, installation, testing, commissioning of Platform Screen Door (PSD, PSG, EED, PED, FS, PSL, PSC) which are Substantially# complete and Client (or end user) has issued Certificate.

#Substantial completion shall be based on 80% or more works completed under the contract and Commissioned.

4.1.2 **Financial Standing:** In addition to the Criteria mentioned in the Tender Documents, the following financial standings will also be considered.

- i. **T1 - Liquidity:** The Bidder must demonstrate that its financial resources less its financial obligations for its current contract commitments, meet or exceed the total requirement for the Subject Contract of **INR10.44Cr**.
- ii. **T2 – Net Worth:** As a minimum, the Bidder's net worth should be positive for at least 03 years out of last 05 financial years calculated as the difference between total assets and total liabilities.
- iii. **Average Annual Turnover:** Minimum average annual turnover of **INR 94.00 Cr** calculated as total certified payments (certified by CA) received for contracts in progress or completed, within the last 05 years.
- iv. **Bid Capacity Criteria:** The tenderers will be qualified only if their available bid capacity is more than the approximate cost of work as per EQC.

- 5.0 To obtain further information and inspect the Bidding Documents, Bidders should contact:
 Director (Systems) -Metro PIU,
 1st Floor, A-wing, Old Administrative Building
 Mumbai Metropolitan Region Development Authority (MMRDA),
 Bandra Kurla Complex, Bandra (E), Mumbai – 400051, Maharashtra, INDIA.
 Phone: +91(22) 26597656
 Email: metropiu.systems@mailmmrda.maharashtra.gov.in
<https://mmrda.maharashtra.gov.in>
- 6.0 Bidding Documents and Supporting Documents in English can be downloaded by eligible Bidders for reference purpose from Government of Maharashtra’s GoM Mahatender portal during the period mentioned in the tender notice. Interested Bidders have to make payment of Tender Fee using online payment gateway during bid preparation i.e., NEFT and RTGS. Receipt for e-Tender Fee to be uploaded in e-Envelope ‘A’. The details of Employer’s bank are as under:
 Beneficiary Name: MMRD Fund
 Bank Name: Bank of Maharashtra
 Branch: Kalanagar, Bandra (East)
 Account No.: 60259778998
 IFSC Code: MAHB0000164
- 7.0 Tender and Supporting Documents can be downloaded for reference purpose from Government of Maharashtra’s GoM Mahatender portal during the period mentioned in the tender notice. Interested Bidders have to make payment of Tender Fee using online payment gateway during bid preparation. Receipt for e-TenderFee to be uploaded in e-Envelope ‘A’.
- 8.0 **The Tender documents consist of:**
- Part I BIDDING PROCEDURES**
 Section 1 - Instruction to Bidders (ITB)
 Section 2 - Bid Data Sheet (BDS)
 Section 3 - Evaluation and Qualification Criteria (EQC)
 Section 4 - Bidding Forms (BDF)
 Section 5 - Eligible Countries (ELC)
- Part II REQUIREMENTS**
 Section 6 - Employer’s Requirements (ERQ) – including Technical Specifications, General Specifications, ESHS, Drawings
- Part III CONDITIONS OF CONTRACT AND CONTRACT FORMS**
 Section 7 - General Conditions of Contract (GCC)
 Section 8 - Special Conditions of Contract (SCC)
 Section 9 - Contract Forms (COF)
- 9.0 Tender submissions will be made online after uploading the mandatory scanned documents. Bid shall be submitted online on the GoM Mahatender portal in “**two (2) electronic envelopes (e-envelope) system**” within prescribed schedule.

A. e-Envelope “A” (Tender Fee, EMD and PoA):

Bidder should generate and upload the following:

- i. Receipt for e-tender fee.
- ii. Receipt of Challan of online payment of Tender Security (EMD),
- iii. Copy of Bank Guarantee towards balance Tender Security (EMD)
- iv. Specific Power of Attorney supported with Board resolution.
- v. **Technical bid - Bidder shall upload scanned copies of Tender Documents (or digitally signed Tender Documents).**

B. e-Envelope “B” (Financial bid):

Bidder shall quote his offer based on his filled Cost Centers / Schedules and upload scanned copies of his financial bid.

Bids will be opened promptly after the deadline for bid submission in the presence of Bidder’s representatives who choose to attend.

10.0 Single-Stage Two Envelope:

Bidder should note that there are two envelopes. One for Technical Bid / Package and other for Financial Bid / Package.

The first envelope is Envelope A which consists of Tender Security (EMD and Bank Guarantee), cost of Tender Fee and consist of all Technical Documents.

The Second envelope is Envelope B which consists of Financial Bid / Package. Bidder has to submit their financial bid in Envelope B.

Bidder shall quote his offer based on the Pricing Document of Section 4B.

More information useful for submitting online bids on the e-tendering Portal may be obtained at: <https://mahatenders.gov.in/nicgep/app>

Since the e-tendering system shall calculate the amount of Quoted figures, which may change due to error and corrections in Foreign Currencies, the automated mail related to comparison does not depict the correct picture and hence does not hold good. The Correct status related to it shall be depicted / uploaded later on.

**Director (System) – Metro PIU,
1st Floor, A-Wing, Old Administrative Building
Mumbai Metropolitan Region Development Authority (MMRDA)**