

MUMBAI METRO RAIL CORPORATION LIMITED

Mumbai Metro Line-3 Project

IFB No: MM3-CBS-DEQ-9-04

Design, Manufacture, Supply, Installation, Testing & Commissioning of Rail-cum Road Vehicle along with Rerailing-cum-Rescue Equipment

Response to Bidders' Queries (SET-1)

Sr. No.	Bidding Documents Part No. & Section No.	Clause No.	Page No.	Bid Document Clause Description	Bidder's Query /Clarification	MMRC Response
1	Part 1 Section I	4.0 Eligible Bidders	ITB-5	A Bidder may be a firm that is a single entity or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a JV: (a) all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms, and (b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and, in the event the JV is awarded the Contract, during Contract execution.	Option I This is an "International Competitive Bidding" e-tender and all proprietorship firms, partnership firms, companies, corporations, consortia or joint ventures or authorized Indian agent/s of OEM can participate in the tender by using credentials of OEM who are involved in execution of this type of work and those who fulfil the financial soundness and work experience criteria and other requirements laid down in Eligibility cum Qualification Criteria and/or in this document are eligible to participate. Tenders are open to nationals of all countries. Option II Foreign OEM bidders who have formed a manufacturing unit in India (as a fully owned subsidiary or in a Joint Venture) can also bid by using the credentials of such Foreign OEM duly furnishing a Transfer of Technology agreement.	Bidding Documents conditions prevail.
2	Part 2, Employers' Requirements, Section VI-B	1.3.13	4 of 27	All software(s), irrespective of Contractor's own software or of sub-suppliers, shall be compatible with latest version of Windows Operating software and shall also have upward compatibility. Contactor shall commit to support and supply free of cost any special hardware/ software required for ensuring compatibility with new version of Windows for at least a period till the end of DLP of the Equipment.	ZAGRO and Daimler software cannot be provided. Please remove the clause.	Bidding conditions do not require the software to be handed over. The requirement is for compatibility for uploading, when required. Bidding Documents conditions prevail.
3	Part 2, Employers' Requirements, Section VI-B	1.7 (c) (iii)	6 of 27	Suitable Number Plate as per RTO Maharashtra Regulations, India shall be fixed in both front and rear side of the vehicle.	Kindly clarify what are the regulations as per RTO of Maharashtra.	Suitable Number Plate as per RTO Maharashtra Regulations, (as is given in weblink https://www.htp.gov.in/Annexure-I.pdf) shall be fixed in both front and rear side of the vehicle. The Number plate is required for movement of vehicle on Traffic Roads in emergency. Bidding Documents conditions prevail.



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4	Part 2, Employers' Requirements, Section VI-B	1.11 (a) (ii)	7 of 27	The Response time to attend to the breakdowns shall be 8 hours. In case where the Response time ends between 2200 hrs to 0800 hrs next day, the same shall be treated to have been extended up to 0800 hrs next day.	The Response time to attend to the breakdowns shall be 72 hours.	Please refer to Addendum No. 1, Sr No. 1
5	Part 2, Employers' Requirements, Section VI-B	2.1 (c)	9 of 27	The Contractor shall develop and submit BIM model of the Facilities in Revit/ Navis Works as per the requirements given in Clause 2.8.3 (c), Section VI-A Part 2 and Clause 6.2, Appendix 6, Section VI-A, Part 2.	Please specify in detail about BIM model.	BIM (Building Information Model) is 3D model with digital description, which includes a combination of information-rich 3D models and associated structured data such as product, execution and handover information. These models can be made in Software Like Autodesk Revit, Bentley AECOSIM etc (In MML-3, software to be used is Revit) prescribed in the relevant clauses viz. Clause 2.8.3 (c), Chapter 2, Section VI-A, Part 2 and Clause 6.2, Appendix 6, Section VI-A, Part 2. Bidding Documents conditions prevail.
6	Part 2, Employers' Requirements, Section VI-B	2.1 (e)	9 of 27	Provision of all facilities for installation of Mobile Train Radio Equipment (MTRE) in driver's cab as per the details given in Clause 4.19 in interface with STPT (Signalling & Telecom) Contractor. The Equipment Contractor shall plan for provision of suitable space and location of Radio Equipment and provide suitable power points for functioning of MTRE.	3D Drawings required to find suitable location.	Adequate details are given in Clause 2.2.19, Section VI-B, Part 2. Further information can be taken during design stage of the Contract. Bidding Documents conditions prevail.
7	Part 2, Employers' Requirements, Section VI-B	2.1 (h)	9 of 27	Submission of required data and certificates as applicable for license applications and registration with local statutory authorities on demand from the Employer. The Employer shall take necessary action for Speed Certification of Rail-cum-Road Vehicle from RDSO. The Contractor shall provide technical support as required by RDSO for Speed Certification.	We never done such things in all our past supplies. RDSO was not involved. Please clarify what documents will be required or remove the clause.	Technical data of the Rescue Vehicle, if asked for by RDSO, shall have to be supplied by the Contractor for obtaining RDSO's safety and speed certification of the vehicle. Bidding Documents conditions prevail.



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8	Part 2, Employers' Requirements, Section VI-B	2.1 (i)	9 of 27	The Employer shall get the vehicle registered in the name of MMRC, Depot in the applicable RTO (Regional Transport Office) of Maharashtra. However, the Contractor shall be responsible for providing all technical particulars required for the registration purpose and supplying a vehicle fit for registration in RTO.	Please specify the documents required for registrations or else remove the clause. Our entire range of supplied RRV has never undergo for registration by any authority.	Details of registration process and documents required are available in web link http://www.mahatranscom.in/pdf/REGISTRATION_OF_MOTOR_VEHICLES.pdf . The same may be perused. The Bidding Documents conditions prevail.
9	Part 2, Employers' Requirements, Section VI-B	2.1 (j)	9 of 27	Engine number shall be stamped as per the Vehicle Registration Requirements of RTO authorities in Maharashtra, India.	Engine number will be stamped as per vehicle supplier standard procedure.	The details of stamping requirements are available in web link: https://morth.nic.in/sites/default/files/ASI/531201714455PMAIS-065_and_Amd_1_to_3.pdf . The Bidding Documents conditions prevail.
10	Part 2, Employers' Requirements, Section VI-B	2.2.2 (a)	10 of 27	Transmission: Synchromesh reversing transmission equipped with gear box inverter or fully synchronized automatic transmission.	Transmission: Synchromesh reversing transmission equipped with gear box inverter or fully synchronized automatic transmission with 8 forward and 8 reverse gears	Bidding documents clause permits transmission with 8 forward and 8 reverse gears. The Bidding Documents conditions prevail.
11	Part 2, Employers' Requirements, Section VI-B	2.2.6 (b)	11 of 27	Separate access door for personnel compartment on both sides with safety lock. The access door shall be designed suitable to meet the requirements of its functioning inside tunnel,	What are the requirements inside the Tunnel?	The design of Rescue Vehicle and its access doors should be in accordance with the tunnel design. The drawing of tunnel is included in Section X, Part 4 of RFP. Bidding Documents conditions prevail.
12	Part 2, Employers' Requirements, Section VI-B	2.2.6 (n)	11 of 27	Provision for installation of Mobile Train Radio Equipment in the Cab.	Please provide details of Mobile Train Radio.	The details of Mobile train Radio are given in Clause 2.2.19, Section VI-B, Part 2. Bidding Documents conditions prevail.
13	Part 2, Employers' Requirements, Section VI-B	2.2.11 (c)	13 of 27	Rail Guidance System: Full floating rail axle for running on road,	Full floating rail axle for running on rail.	The rail axle shall be in floating condition with rail wheels above the road level while running on road. Bidding Documents conditions prevail.



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14	Part 2, Employers' Requirements, Section VI-B	2.2.11 (d)	13 of 27	Telescopic cylinders at front & rear rail guiding axle,	Our vehicle has the provision for telescopic cylinder only on front. Kindly amend the clause.	Please refer to Addendum No. 1, Sr No 2
15	Part 2, Employers' Requirements, Section VI-B	2.2.17 (c)	15 of 27	Buffers with adequate strength at the rear.	Please explain the meaning of buffer at the rear.	Please refer to Addendum No. 1, Sr No 3
16	Part 2, Employers' Requirements, Section VI-B	2.2.17 (f)	15 of 27	Two telescopic spotlights mounted at suitable location on the vehicle	Please share details about telescopic spot lights and also specify the location.	The telescopic lights shall serve the purpose of illumination of the area for working. The details shall be worked during design stage. Bidding Documents conditions prevail.
17	Part 2, Employers' Requirements, Section VI-B	2.2.18	15 of 27	Coupling System	Please share information about max. Towing weight, max. Gradient,etc to see if RRV is suitable.	The coupling system is required to haul itself by another rolling stock/ Shunter in case of Rescue Vehicle becoming defective enroute. The RRV shall not be required to haul train load. Bidding Documents conditions prevail.
18	Part 2 Employers Requirement , Section -VI-B	2.2.18 (a)	15 of 27	Coupling System: Coupling system shall have cranked tow bar with flange at both ends, required for coupling the Rescue Vehicle with metro cars and other maintenance vehicles. One end of the tow bar should be provided with a suitable adapter to couple the Rescue Vehicle with automatic coupler and semi-permanent coupler and designed in interface with Rolling Stock Contractor.	If the Rescue Vehicle has to be coupled with metro cars please confirm the below details :- a) Type of coupler installed on the metro cars. If possible please the Drawing with dimensions. b) Type of brakes used on metro cars as we have to install the necessary interface to activate the brakes from the Rescue Vehicle. c) Maximum number of cars to be coupled and total weight of the convoy. d) Maximum gradient on the line	The coupling system is required to haul itself by another rolling stock/ Shunter in case of Rescue Vehicle becoming defective enroute. The RRV shall not be required to haul train load. The Schaku type coupler by Voith is used on Mumbai Metro Line 3 system. Please refer to Addendum No. 1, Sr No 4.
19	Part 2, Employers' Requirements, Section VI-B	2.2.19 (e)	16 of 27	The Contractor shall provide 230 V AC sockets for charging of hand portables.	RRV supply 24V.	Provision of 230 V AC supply is essential for working of telecommunicaytion system. The same is essentially required. Bidding Documents conditions prevail.



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20	Part 2, Employers' Requirements, Section VI-B	2.3.6 (a)	16 of 27	Displacement Jacks or Auto Traversing Jack a) Displacement Jacks shall be of minimum 12/6 T capacity (12 T for pushing, 6 T for pulling), closed height max. 575 mm, stroke min. 350 mm with steel counter support. The working pressure shall be minimum 300 kg/cm ² . The displacing jack shall have integral oil retaining valves, colour coded connections and the weight shall be less than 25 kg.	Displacement Jacks or DUO Traversing Jack Displacement Jacks shall be of minimum 12/6 T capacity (12 T for pushing, 6 T for pulling), closed height max. 575 mm, stroke min. 320 mm with steel counter support. The working pressure shall be minimum 300 kg/cm ² . The displacing jack shall have integral oil retaining valves, colour coded connections and the weight shall be less than 25 kg	Please refer to Addendum No. 1, Sr No 5
21	Part 2, Employers' Requirements, Section VI-B	2.3.8 (c)	20 of 27	Roller carriages shall be equipped with Counter supports, stopping device with carrying handle and one distance bar having an adjustable length to couple two roller carriages. The Contractor shall detail the length of distance bar during design stage.	Roller carriages shall be equipped with Counter supports, stopping device with carrying handle and one pair of distance bar having an adjustable length to couple two roller carriages. Please specify the adjustable length of distance bar required. Either 1030 to 1830 mm or 1500-2800 mm	Please refer to Addendum No. 1, Sr No 6
22	Part 2, Employers' Requirements, Section VI-B	2.3.9 (a)	20 of 27	Tilting jack shall have 20 T capacity for pulling and have a height of 575 ± 25 mm, working pressure shall be minimum 300 kg/cm ² , stroke minimum 400 mm with hooked wheel stop. Tilting jack shall be complete with accessories and suitable for quick rerailing of single wheel or car.	The word "pulling" need to be changed to "pushing". Tilting jack shall have 20 T capacity for pushing and have a height of 575 ± 25 mm, working pressure shall be minimum 300 kg/cm ² , stroke minimum 400 mm with hooked wheel stop. Tilting jack shall be complete with accessories and suitable for quick rerailing of single wheel or car.	Please refer to Addendum No. 1, Sr No 7
23	Part 2, Employers' Requirements, Section VI-B	2.3.16 (a) (i)	21 of 27	Hydraulically Operated Cutter with maximum Cutting Force being at least 600 kN and adequate for cutting 5 mm thick Steel Sheet SS 301LN- HT. The weight of the cutter shall not be more than 15 kgs.	Hydraulically Operated Cutter with maximum Cutting Force being at least 600 kN and adequate for cutting 5 mm thick Steel Sheet SS 301LN- HT. The weight of the cutter shall not be more than 19 kgs as per RDSO specification.	Please refer to Addendum No. 1, Sr No 8
24	Part 2, Employers' Requirements, Section VI-B	2.3.19 (b)	22 of 27	Engine of the Compressor shall be with capacity of at least 2.1 kW and complying with smoke emission norms of Euro VI / Bharat Stage VI shall be supplied.	Engine of the Compressor shall be with capacity of at least 1.5 kW and complying with smoke emission norms of Euro VI / Bharat Stage VI shall be supplied.	Capacity of Engine of compressor is essentially required as 2.1 kW. Bidding Documents conditions prevail.
25	Part 1, Bidding Procedure, Section-II Bid Data Sheet	ITB 24.1	5 of 6	Deadline for bid submission is 10-11-2022	Deadline for bid submission to be extended up to 10-12-2022	Please refer to Addendum No. 1, Sr No 9 and 10



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26	Part 2, Employers Requirement , Section -VI-A	Appendix 1- Key Dates	42 of 61	<p>Delivery period:</p> <p>KD-3- Delivery of equipment to MML3 Depot, Mumbai - 240 Days.</p> <p>KD-4- Installation, Testing & Commissioning (including Guarrantee test), Supply of O&M manual and Training of O&M personnel of Employer - 270 days.</p> <p>KD-5- Completion of all other obligations under the Contract - 330 days</p>	<p>We would like to inform you that due to the current war situation at Ukraine and Russia, there is currently extreme shortages of raw materials and a state of emergency in the transport sector due to which the standard delivery time is approximately more than 365 days EXW after signing the contract/order.</p> <p>We would like to draw your attention that the delivery time for the machine and accesories depends on the delivery times of our sub-suppliers and the market situation prevailing at the time of order</p> <p>Hence we request you to please revise the Key dates as below:</p> <p>KD-3- Dates from 240 days to 340 days.</p> <p>KD-4- Dates from 270 days to 370 days</p> <p>KD-5- Dates from 330days to 430 days</p>	Please refer to Addendum No. 1, Sr No 11
27	Part 3, Conditions of Contract and Contract forms, Section -IX	3.1(ii) – Terms of Payment-Schedule 1	6 of 12	<p>Seventy-five (75%) of the total or pro rata DDP (Delivery at MMRCCL Site) amount, upon delivery to the site of the Equipment within forty-five (45) days after receipt of invoice and on submission of the following documents:</p> <p>a)</p> <p>b)</p> <p>h) Certified copy of certificate of receipt of full supplies at depot site.</p>	<p>We would request you that the payment shall me made on basis of LC (Line of Credit).</p>	<p>Payments shall be made as per the Bidding of documents.</p> <p>Bidding documents conditions prevail.</p>
28	Part 1, Bidding Procedure, Section-I, ITB	21. Bid Security	ITB- 18,19	<p>Any Bid not accompanied by a substantially responsive Bid Security shall be rejected by the Employer as non-responsive.</p>	<p>We are participating in the above subject tender. As per tender document Rs. 900,000.00 need to be submitted as EMD amount. We were processing the BG for EMD amount but our BG limit has been exhausted so we are processing the BG from our sister concern company.</p>	<p>Bid Security shall be in the name of the Bidder (Single Entity or JV/Consortium) that submits the Bid.</p> <p>Bidding documents conditions prevail.</p>

