



## **MUMBAI METRO RAIL CORPORATION LIMITED (MMRC)**

(Joint Venture of Govt. of India and Govt. of Maharashtra)  
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**Invitation for Bids for "Design, Manufacture, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance Service of Lot I: CNC Under Floor Wheel Lathe, and Lot II: Battery Operated Shunter" for Project Mumbai Metro Line-3**

Date: [29<sup>th</sup> March 2019]  
Loan Agreement Number: [ID-P 233/268]  
IFB Number: [MM3-CBS-DEQ-9-01]

### **Addendum No. 3**

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
1	Part 1, Bidding Procedure, Section III, Evaluation and Qualification Criteria, <b>Clause 2.6.4</b>	Clause 2.6.4 - Deleted
2	Part 1, Bidding Procedure, Section II, Bid Data Sheet, <b>Clause ITB 18.5 (a)</b>	<p><b><u>Replace</u></b> <b>Schedule No. 1 - Plant, to be supplied from abroad</b></p> <p>The prices shall be quoted on CIP (including cost of Carriage and Insurance up to the destination) basis - Named place of destination is Mumbai Metro Line 3 at Aarey depot site, Mumbai, India as described in Schedule No. 1 of Pricing Document Section IV-B.</p> <p><b><u>With</u></b> <b>Schedule No. 1 - Plant, to be supplied from abroad</b></p> <p>The prices shall be quoted on <b>DDP (Delivered duty paid)</b> basis - Named place of destination is Mumbai Metro Line-3 depot site, Mumbai, India as described in Schedule No. 1 of Pricing Document Section IV-B. Concessional benefits for project import may be availed as per clause 1.2.7 Section IV-B Part 1</p>



Sr. No.	Bidding Documents Reference and Clause No.	Amendment
3	Part 3, Conditions of Contract & Contract forms, Section VIII, Particular condition of Contract, <b>Clause PC 7.4 (a)</b>	<p><b><u>Replace</u></b> CIP- Carriage and Insurance basis</p> <p><b><u>With</u></b> <b>DDP (Delivered duty paid)</b></p>
4	Part 3, Conditions of Contract & Contract forms, Section IX, Contract Forms, <b>Appendix 1, (In Schedule No. 1, Plant and Mandatory spare parts to be supplied from abroad- Sr No 1, 2 and 3)</b>	<p><b><u>Replace</u></b> <b>CIP</b></p> <p><b><u>With</u></b> <b>DDP</b></p>
5	Part 3, Conditions of Contract & Contract forms, Section VIII, Particular condition of Contract, <b>Clause PC 8.2</b>	<p><b><u>Replace</u></b> The Time for Completion of the Facilities (except for Comprehensive Maintenance Service) shall be as under: Wheel Lathe- <b>427 Days</b> Shunter - <b>343 Days</b> The Comprehensive Maintenance service shall be for the period of "DLP and followed by 5 years post-DLP".</p> <p><b><u>With</u></b> The Time for Completion of the Facilities (except for Comprehensive Maintenance Service) shall be as under: Wheel Lathe- <b>532 Days</b> Shunter - <b>532 Days</b> The Comprehensive Maintenance service shall be for the period of "DLP and followed by 5 years post-DLP".</p>
6	Part 2, Employer's Requirements, Section VI-A, General Specifications including Appendices, <b>Appendix 1</b>	<p><b><u>Replace</u></b> <b>APPENDIX 1- KEY DATES</b></p> <p><b><u>With</u></b> <b>APPENDIX 1- KEY DATES (Rev'1'). Refer Attachment No. 1 to Addendum No. 3.</b></p>



Sr. No.	Bidding Documents Reference and Clause No.	Amendment
7	<p><b>Addendum No. 1, Sr. No. 13</b> Part 2, Employer's Requirements, Section VI-B, Technical Specifications, <b>4.3 Design Considerations</b></p>	<p><b>Replace</b> g) It shall have a <b>dismountable</b> roof mounted cabin providing all round visibility. The cabin shall have sufficient inside height for the operator to enter and work comfortably. It shall be well-illuminated, have either one (01) lockable door and a window on the other side or two (02) lockable doors, safety glass and screen wipers. The cabin itself shall have several grips for the operator to hold on.”</p> <p><b>With</b> g) It shall have a <b>dismountable or fixed</b> roof mounted cabin providing all round visibility. The cabin shall have sufficient inside height for the operator to enter and work comfortably. It shall be well-illuminated, have either one (01) lockable door and a window on the other side or two (02) lockable doors, safety glass and screen wipers. The cabin itself shall have several grips for the operator to hold on.”</p>
8	<p>Part 2, Employer's Requirements, Section VI-B, Technical Specifications, <b>Clause 4.6 (a)</b></p>	<p><b>Replace</b> a) <b>Design of Coupler Adaptor: A suitable coupler adaptor, compatible with the Metro Car coupler, shall be provided at both ends of the Shunter for coupling the railcars.</b> It shall be designed for pulling, pushing or braking rated loads at all track conditions prevalent at this location. Coupler height shall be adjustable by <b>hydraulic/mechanical</b> mechanism from driver desk as well as through remote control and after the tractor has stopped, it shall be possible to position the coupler head at the same height as that of car.</p> <p><b>With</b> a) <b>Design of Coupler Adaptor: A suitable coupler adaptor, compatible with all types of couplers, viz. automatic, semi-permanent and manual, for coupling different rail vehicles shall be provided at both ends of the Shunter.</b> It shall be designed for pulling, pushing or braking rated loads at all track conditions prevalent at this location. Coupler height shall be adjustable by hydraulic/mechanical mechanism from driver desk as well as through remote control. <b>Alternatively, provision of Coupler height adjustment with manually operated screw is also acceptable.</b> After the tractor has stopped, it shall be possible to position the coupler head at the same height as that of car.</p>



Sr. No.	Bidding Documents Reference and Clause No.	Amendment
9	<p><b>Addendum No. 2, Sr. No. 16</b> Part 1, Bidding Procedure, Section II, Bid Data Sheet, ITB 24.1</p>	<p><b>Replace</b> “The deadline for Bid submission is: <b>Date: 09/04/2019</b> <b>Time: 3:00 PM</b>”</p> <p><b>With</b> “The deadline for Bid submission is: <b>Date: 24/04/2019</b> <b>Time: 1:00 PM</b>”</p>
10	<p><b>Addendum No. 2, Sr. No. 17</b> Part 1, Bidding Procedure, Section II, Bid Data Sheet, ITB 27.1</p>	<p><b>Replace</b> “The Technical Bid opening shall take place at: <b>Date: 09/04/2019</b> <b>Time: 4:00 PM</b>”</p> <p><b>With</b> “The Technical Bid opening shall take place at: <b>Date: 24/04/2019</b> <b>Time: 2:00 PM</b>”</p>



Place: Mumbai,  
Date: 29<sup>th</sup> March 2019

Sd/-  
(Smt. Ashwini Bhide, IAS)  
Managing Director, MMRC

**APPENDIX 1- KEY DATES (Rev '1')****1 KEY DATES**

The Contractor shall prepare and submit his detailed Program of Work so as to achieve key dates of various activities on time. The Contractor shall complete the work in a phased manner by fixing priorities to different stretches of work to give access to the other interfacing contractors as per the requirement of project from time to time and as per the key dates (mile stones) indicated below:

**CONTRACT KEYDATES****Schedule of Key Dates- Wheel Lathe**

Key date No.	Key Activity	Days
KD – 1	Submission of Equipment Preliminary Drawing, electric supply details and Equipment Foundation Drawing and obtain the Project Manager's 'Notice of No Objection' to the above.	56
KD – 2	Submission of Equipment detailed design drawings and Project Management Plans and obtain the Project Manager's 'Notice of No Objection' to the above.	98
KD – 3	Dispatch of the Equipment to MML3 Aarey Depot Mumbai along with O&M Manual and Spare Parts Catalogue	378
KD – 4	Installation, Testing & Commissioning (excluding Guarantee tests), supply of Training Manual and training of O&M personnel of Employer.	504
KD – 5	Completion of all obligations (including Guarantee tests) of the Contractor under the Contract.	532

**CONTRACT KEY DATES****Schedule of Key Dates- Shunter**

Key date No.	Key Activity	Days
KD – 1	Submission of Equipment layout drawing, electrical supply details and obtain the Project Manager's 'Notice of No Objection' to the above..	56
KD – 2	Submission of Equipment detailed design drawings and Project Management Plans and obtain the Project Manager's 'Notice of No Objection' to the above.	98
KD – 3 (1)	Dispatch of the 1st Shunter to MML3 Aarey Depot Mumbai along with O&M Manual and Spare Parts Catalogue.	329



KD – 4 (1)	Installation, Testing & Commissioning for 1st Shunter (excluding Guarantee tests), supply of Training Manual and training of O&M personnel of Employer.	385
KD – 3 (2)	Dispatch of the 2nd Shunter to MML3 Aarey Depot Mumbai.	448
KD – 4 (2)	Installation, Testing & Commissioning for 2nd Shunter (excluding Guarantee tests)	504
KD – 5	Completion of all obligations (including Guarantee tests) of the Contractor under the Contract.	532

**Notes on Key Dates:**

1. The achievement of a Key Date shall be subject to the issuing of a Notice of No Objection from the Project Manager.
2. The achievement of a Key Date shall require completion of all the works specified for achievement of the Key Date.
3. The achievement of Key Dates shall be read in conjunction with the Interface Specifications to establish access requirements for Interfacing Contractors.

**Schedule of Access Dates**

The table below sets out the access dates when Site Areas will be made available to the Contractor together with the dates by which they must be vacated by the Contractor. These should be taken in to account in implementation schedule.

**Equipment: Under Floor Wheel Lathe**

Site area: **The area for Installation, Testing and Commissioning of Equipment.**

System	Access days	Vacate days	Reason for vacation
Depot Civil	370 days	On completion of commissioning of Equipment.	Completion of the assembling, testing & commissioning and training.
E&M	370 days	----	
Track	370 days	----	

**Equipment: Battery Operated Train Shunter**

Site areas: **The area for Testing and Commissioning of Equipment.**

System	Access days	Vacate days	Reason for vacation
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Depot Civil	320 days	On completion of commissioning of Equipment.	Completion of the assembling, testing & commissioning and training.
E&M	320 days	--	
Track	320 days	---	

**Applicable rate for liquidated damages**

- 1) If the Contractor fails to deliver as per the Key Dates within the period fixed for such delivery in the Contract or as extended from time to time, or at any time repudiates the Contract before the expiry of such period, the Employer may, without prejudice to his other rights, recover from the Contractor as agreed Liquidated Damages as follows:
  - i) For KD-1(In case of Wheel Lathe only)
    - a) 0.01 % of the Contract Price (Part A) per each day of delay for first 14 days;
    - b) 0.02 % of the Contract Price (Part A) per each day of delay beyond 14 days.
  - ii) For KD-2 (In case of Wheel Lathe and Shunter)
    - a) 0.01 % of the Contract Price (Part A) per each day of delay for first 14 days;
    - b) 0.02 % of the Contract Price (Part A) per each day of delay beyond 14 days.
  - iii) For KD-4 (In case of Wheel Lathe)
    - a) 0.03 % of the Contract Price (Part A) per each day of delay for first 14 days.
    - b) 0.05 % of the Contract Price (Part A) per each day of delay beyond 14 days.
  - iv) For KD-4(1) / KD-4(2) (In case of Shunter)
    - a) 0.015 % of the Contract Price (Part A) per each day of delay for first 14 days.
    - b) 0.025 % of the Contract Price (Part A) per each day of delay beyond 14 days.
  - v) For KD-5 (In case of Wheel Lathe and Shunter)
    - a) 0.01 % of the Contract Price (Part A) per each day of delay for first 14 days.
    - b) 0.02 % of the Contract Price (Part A) per each day of delay beyond 14 days.
- 2) There is no maximum limit in levy of LD for delays in individual Key Dates. However, the aggregate amount of such liquidated damages shall in no event exceed 10% of the Contract price (Part A).
- 3) In case the Contractor is able to achieve KD-5 without any delay on Contractor's account, all the applicable liquidated damages on previous Key Dates (KDs) may be waived off and LD amount if deducted will be returned (without interest) to the Contractor.



