



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 and Commissioning of Rescue Vehicle (Rail-cum-Road Vehicle with Re-Railing & Rescue Equipment) for Project Mumbai Metro Line-3

Date: 05th Dec 2019

Loan Agreement Number: [ID-P 268]

IFB Number: [MM3-CBS-DEQ-9-04]

Addendum No. 4

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.19 (c)	Replace c) The hydraulically operated cutter and spreader shall be provided with a suitable capacity power pack of 4-stroke petrol engine for the use of two rescue devices at a time with a maximum operating pressure of 630 bar and weight shall not be more than 30 Kg.
1	Sr. 8 of Addendum no. 2.	With c) The hydraulically operated cutter and spreader shall be provided with a power pack of 4- stroke petrol engine for their independent simultaneous use with an adequate operating pressure to meet the functional requirement as stated in clause 3.3.19 (a). The weight of power pack of 4-stroke petrol engine shall not be more than 30 Kg.



2	<p>Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.19 (a) Sr. 7 of Addendum no. 2.</p>	<p><u>Replace</u></p> <p>a) Rescue devices shall comprise the following items:</p> <ol style="list-style-type: none"> i. Hydraulically Operated Cutter of Cutting Force 1100 kN minimum. ii. Hydraulically Operated Spreader of Spreading Force ranging from 52 kN to 670 kN. <p>These shall be suitable for working on Rolling stock of Mumbai Metro Line 3 made of Stainless Steel to specifications SS301LN. The Contractor shall interface with the Rolling Stock Contractor for details. The weight of each of these devices shall be less than 20 kgs.</p> <p><u>With</u></p> <p>a) Rescue devices shall comprise the following items:</p> <ol style="list-style-type: none"> i. Hydraulically Operated Cutter of Cutting Force 1100 kN minimum. ii. Hydraulically Operated Spreader of Spreading Force ranging between 52 kN to 670 kN. <p>These shall be suitable for working on Rolling stock of Mumbai Metro Line 3 made of Stainless Steel to specifications SS301LN. The Contractor shall interface with the Rolling Stock Contractor for details. The weight of each of these devices shall be less than 20 kgs.</p>
3	<p>Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.20 (a) Sr. 9 of Addendum no. 2.</p>	<p><u>Replace</u></p> <p>3.3.20. Manually operated light weight Combination Tool for cutting & spreading: A manually operated light weight Combination Tool for cutting & spreading with integrated pump shall be supplied for emergency operation when hydraulic and or battery operated rescue equipment fails. This shall be suitable for working on Rolling stock of Mumbai Metro Line 3 made of stainless steel to specifications SS301LN. The contractor shall interface with the Rolling stock contractor for details.</p> <p><u>With</u></p> <p>3.3.20 Manually operated light weight Combination Tool for cutting & spreading: A manually operated light weight Combination Tool for cutting & spreading with integrated pump shall be supplied for emergency operation when hydraulic and or battery operated rescue equipment fails. This shall be suitable for working on Rolling stock of Mumbai Metro Line 3 made of stainless steel to specifications SS301LN. The contractor shall interface with the Rolling stock contractor as per provisions of Appendix 5, Attachment: N1, of Section VI-A Employer's requirement.</p>



4	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.18 (a) Sr. 7 of Addendum no. 2.	<p>Replace</p> <p>a) Airbags of following size and capacity shall be supplied:</p> <p>ii. Size (approx.): (750-950) x (850-950) mm, Lifting capacity: 670 - 700 kN, Lifting height: 500 +/- 10% mm</p> <p>With</p> <p>a) Airbags of following size and capacity shall be supplied:</p> <p>ii. Size (approx.): (750-950) x (850-950) mm, Lifting capacity: up to 750 kN, Lifting height: 500 +/- 10% mm</p>
5	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.2.7 (f)	<p>Replace</p> <p>f) large instrument panel LCD displays, and gauge shall indicate the minimum following configurations but will not be limited to:</p> <ul style="list-style-type: none"> • brake fluid level, <p>With</p> <p>f) large instrument panel LCD displays, and gauge shall indicate the minimum following configurations but will not be limited to:</p> <ul style="list-style-type: none"> • brake fluid level in case of Hydraulic Braking system only
6	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.8 (a)	<p>Replace</p> <p>a) Roller carriage shall have 60 T Capacity with removable top plate. The height shall be less than 110 mm (without plate) – 140 mm (with plate) and the weight less than 60 kg (without plate) - 85 kg (with plate). The width shall be less than 260 mm.</p> <p>With</p> <p>a) Roller carriage shall have minimum 60 T Capacity with removable top plate. The height shall be less than 110 mm (without plate) and 140 mm (with plate). The weight shall be less than 60 kg (without plate) and 85 kg (with plate). The width shall be compatible and suitable to operate with Re-railing Bridge (refer clause 3.3.7).</p>



7	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.16 (a)	<p><u>Replace</u> a) Hauling Device, capacity 25 T shall be complete with accessories including following: i. Pulling jack: capable of giving Tractive power of 250 kN: 1 No.</p> <p><u>With</u> a) Hauling Device shall be compatible and complete with accessories including following: i. Pulling jack: capable of giving minimum Tractive power of 200 kN: 1 No.</p>
8	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.17 (a)	<p><u>Replace</u> 3.3.17: Compressor: (a) Engine: 1 Cylinder, 4-stroke Engine with minimum 2.2 kW capacity.</p> <p><u>With</u> 3.3.17: Compressor: (a) Engine: 1 Cylinder, 4-stroke with adequate capacity to meet the performance & functional requirements of the compressor, as stated in clause 3.3.17 (b).</p>

Place: Mumbai,
Date: 05th Dec 2019

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

