



MUMBAI METRO RAIL CORPORATION LIMITED (MMRC)
(Joint Venture of Govt. of India and Govt. of Maharashtra)
MMRCL Line 3 Transit Office, Wing 'A', 'E' Block, Bandra Kurla Complex,
Bandra (East), Mumbai 400051, India.
Telephone: +91-22-26384638, Fax: +91-22-26592005

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: [08th Nov 2019]
Loan Agreement Number: [ID-P 268]
IFB Number: [MM3-CBS-DEQ-9-04]

Addendum No. 2

Sr. No.	Bidding Documents Reference and Clause No.	Amendment
1	Part 1, Bidding Procedure, Section II Bid Data Sheet, 1.2	<u>Add ITB 4.1 (c)</u> <u>"JV" means Joint Venture or Consortium.</u>
2	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.2.9 (b)	<u>Replace</u> “(b) Maximum Running speed on rails \geq 40 kmph without load and \geq 10 kmph with load (8-car train without passengers weighing approx. 340 tons) under standard conditions – straight, dry and levelled track.” <u>With</u> “(b) Maximum Running speed on rails \geq 40 kmph without load and up to 3 kmph with load (8-car train without passengers weighing approx. 340 tons) in depot area on levelled track up to minimum radius of 100 mts.”



Sr. No.	Bidding Documents Reference and Clause No.	Amendment
3	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.7 (b)	<p>Replace “(b) Re-Railing Bridges shall have carrying capacity of 60 T, 140 mm height and following dimensions: i. 3.30 m length, 140 mm height, 350 mm width ii. 2.20 m length, 140 mm height, 350 mm width iii. 1.10 m length, 140 mm height, 350 mm width”</p> <p>With “(b) Re-Railing Bridges shall have carrying capacity of 60 T, height ranging between 140 mm to 200 mm for the following dimensions: i. 3.30 m length, 350 mm width ii. 2.20 m length, 350 mm width iii. 1.10 m length, 350 mm width.”</p>
4	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.15 (b)	<p>Replace “(b) Auxiliary truck shall consist of side sections with rollers and carrying handle, connecting tubes suitable for a 1,435 mm track gauge, rated carrying capacity 16 T (maximum capacity 25T) and the maximum towing speed 25 km per hour. The maximum weight for the whole auxiliary truck shall be 120 kg.”</p> <p>With “(b) Auxiliary truck shall consist of side sections with rollers and carrying handle, connecting tubes suitable for a 1,435 mm track gauge, rated carrying capacity of 16 T and maximum capacity of 25T and the maximum towing speed 25 km per hour. The maximum weight of any individual part of the Equipment in dis-assembled state shall not be more than 120 kgs for ease in carrying manually.”</p>
5	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.17 (b)	<p>Replace 3.3.17 COMPRESSOR: (b) Pneumatic air compressor shall have displacement of at least 230 lpm and in-built air receiver capacity of at least 10 litres at minimum 10 bar pressure for inflating air bags. Compressor shall be provided along with electric motor, motor starter, control box for connecting and operating 2 airbags at a time and reinforced air hoses at-least 10 m long for connection between air compressor and the air - bags.</p> <p>With (b) Pneumatic air compressor shall have displacement of at least 230 lpm and in-built air receiver capacity of at least 10 litres at minimum 10 bar pressure for inflating air bags. Compressor shall be provided for connecting and operating 2 airbags at a time and reinforced air hoses at-least 10 m long for connection between air</p>



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		compressor and the air - bags.
6	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.18	<p>Replace</p> <p>a) Airbags of following size and capacity shall be supplied:</p> <p>i. Size (Approx.) : 600 x 650 – 650 x 650 mm, Lifting capacity : 270 - 320kN, Lifting height : 350 mm</p> <p>ii. Size (approx.) : 900 x 900 – 950 x 950 mm, Lifting capacity : 670 - 700 kN, Lifting height : 500 mm</p> <p>b) Air bag of square/rectangle/diamond shape sizes as stated above, or equivalent capacity circular shape air bags are acceptable.</p> <p>With</p> <p>a) Airbags of following size and capacity shall be supplied:</p> <p>i. Size (Approx.) : (530- 650) x (620 – 690) mm, Lifting capacity : 270 – 320 kN, Lifting height : 350 ± 10% mm</p> <p>ii. Size (approx.) : (750 – 950) x (850 - 950) mm, Lifting capacity : 670 - 700 kN, Lifting height : 500 ± 10% mm</p> <p>b) Air bag of square/rectangle/diamond shape sizes as stated above, or equivalent capacity circular shape air bags are acceptable.</p>



Sr. No.	Bidding Documents Reference and Clause No.	Amendment
7	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.19 (a)	<p><u>Replace</u> a) Rescue devices shall comprise the following items: i. Hydraulically Operated Cutter. ii. Hydraulically Operated Spreader.</p> <p><u>With</u> Rescue devices shall comprise the following items: i. Hydraulically Operated Cutter of Cutting Force 1100 kN minimum. ii. Hydraulically Operated Spreader of Spreading Force ranging from 52 kN to 670 kN. 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>
8	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.19 (c)	<p><u>Replace</u> 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 rescue devices with a minimum operating pressure of 630 bar and weight shall not be more than 30 Kg.</p> <p>As an alternative, Battery-operated rescue devices namely cutter and spreader along with a set of spare battery and battery charger to facilitate effective continuous operation of battery-operated rescue devices can be offered.</p> <p><u>With</u> 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.</p>



Sr. No.	Bidding Documents Reference and Clause No.	Amendment
9	Part 2, Employer's Requirements, Section VI-B, Technical Specifications, 3.3.20	<p><u>Replace</u> Manually Operated Light Weight Combination Tool for Cutting and Spreading: A manually operated light-weight combination tool for cutting and spreading with integrated pump shall be supplied for emergency operation when hydraulic and/or battery-operated rescue equipment fails.</p> <p><u>With</u> Manually Operated Light Weight Combination Tool for Cutting and Spreading: A manually operated light-weight combination tool for cutting and 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>
10	Addendum No. 1, Sr. No. 12 Part 1, Bidding Procedure, Section II, Bid Data Sheet, ITB 24.1	<p><u>Replace</u> "The deadline for Bid submission is: Date: 14/11/2019 Time: 3:00 PM"</p> <p><u>With</u> "The deadline for Bid submission is: Date: 05/12/2019 Time: 3:00 PM</p>
11	Addendum No. 1, Sr. No. 13 Part 1, Bidding Procedure, Section II, Bid Data Sheet, ITB 27.1	<p><u>Replace</u> "The Technical Bid opening shall take place at: Date: 14/11/2019 Time: 3:30 PM"</p> <p><u>With</u> "The Technical Bid opening shall take place at: Date: 05/12/2019 Time: 3.30 PM"</p>

Place: Mumbai,
Date: 08th Nov 2019



MM3-CBS-DEQ-9-04_Addendum No. 2

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