



दिल्ली मेट्रो रेल कॉर्पोरेशन लि०

DELHI METRO RAIL CORPORATION LTD.

(भारत सरकार एवं दिल्ली सरकार का एक संयुक्त उपक्रम)
(A JOINT VENTURE OF GOVERNMENT OF INDIA AND GOVT. OF DELHI)

Amendment/Addendum No. 3

No. DMRC/CO/ST/PUR/CMRL/DM/11

Dtd: 11/10/11

To

ALL

Sub: Amendment/Addendum No. 3 in DMRC tender no. DMRC/CO/ST/PUR/CMRL/DM/11 for Design, Manufacturing, supply, Installation & Commissioning of Road Cum Rail Overhead line Maintenance Vehicle with extendable arm and revolving cradle due on 21/10/2011.

Some of the prospective bidders had sought some clarifications against the above subject tender, the details of the clarifications sought by the bidders and clarification are as under:

Sn	Clause	Specifications	Clarifications sought by bidders	DMRC remarks
1	2.5.5	<p>RAIL TRANSMISSION (HYDRAULIC /ELECTRIC)</p> <p>At least 2 rail axles - retractable for on- and off-tracking the Vehicle.</p> <p>Railway wheels: Diameter: around 360 mm</p>	Please confirm that rail wheel diameter of 360mm is the minimum diameter	Rail wheel diameter is specified as "around 360mm". Please follow tender conditions.
2	2.5.8	<p>BODY AND FRAME</p> <p>The frame has to be strong and sturdy and made of reinforced steel sections to be rigid. Front and rear head stocks have to be fitted with:</p> <ul style="list-style-type: none"> - 2 buffers - Couplers (without electrical contacts) (Similar to the ones used in CMRL Rolling Stock, so as it could be attached to a train) 	Please note that the price of couplers cannot be estimated unless the make and model are specified. You are requested to confirm accordingly or make this a free supply item.	<ol style="list-style-type: none"> 1. The coupler head is a standard type SD 330 design. 2. The nominal height of the coupler head is 780mm above TOR as can be seen by the attached general view drawing of the EMU. 3. It may be noted that the coupler head is equipped with connections for main reservoir (MRP) and brake

10/11

				<p>pipe (BP).</p> <p>4. The operating pressures are MRP 7-10 bar and BP 0 (full service) – 5 bar (release).</p> <p>5. The supplier should fit the same coupler at the same height to ensure compatibility with the EMU and</p> <p>6. Drawings of the semi-automatic coupler to be provided by Faiveley Transport to Alstom (Rolling Stock Contractor of CMRL) are attached in Annexure A.</p>
3	2.5.9	<p>ENGINE</p> <p>The Diesel engine must be:</p> <ul style="list-style-type: none"> - Exhaust fumes low pollution, - Sound proof - Sand and dust proof - Cooled in accordance to Indian Temperature Conditions <p>The power shall be of sufficient capacity to meet performance requirements. Electric equipment will be 24 V DC. Fuel tank will be about of sufficient capacity for a running service of 10 hours..... A minimum fuel capacity sufficient for continuous operation for 10 hours working and 200 Kms travel will be desirable...</p>	<p>600 liters Fuel capacity is too high, more so for a metro system. Normally fuel capacity is specified for 8 hrs working with 30% overload. This may kindly be amended accordingly.</p>	<p>It is already specified in tender that “A minimum fuel capacity sufficient for continuous operation for 10 hours working and 200 Kms travel will be desirable.” Please follow tender conditions.</p>
4	2.5.11	<p>RUNNING GEAR SUSPENSION</p> <p>Axles for wheels have to be in accordance the</p>	<p>Since the vehicle is specified to run at 60 kmph, the springs should also be designed accordingly to give</p>	<p>Already specified for 60 kmph. Please follow tender conditions</p>

149

		<p>relevant IRS (Indian Railway Standards) Specifications IRS R-19/93.</p> <p>Wheels have to be in accordance with the relevant IRS specifications IRS R-43/92.</p> <p>Axles and wheels must be able to ensure a correct bridging of track circuits.</p> <p>Axles and wheels must be connected to the frame of the vehicle by electrical connections to ensure personnel safety.</p> <p>Double Coil spring suspension shall be suitable for running up to 60 km/h and has to be fitted with a special locking device to be used when the vehicle moves at creep speed and/or when the jib and cradle are in extended position.</p>	<p>the proper riding quality. Please amend accordingly</p>	
5	2.5.14	<p>CAB</p> <p>Control and driving panel has to include all the necessary instruments to allow the driver to control the vehicle and a dead man device. Parallel to track position of the panel is preferred to obtain a good visibility in both directions and the control panel is fitted with an adjustable driver seat.</p>	<p>A standard road truck will be used for this application in which the driver is always seated in front facing position with control panel in front. Preference for parallel to track position panel may kindly be deleted. If required, camera can be specified for proper visibility during reverse travel.</p>	<p>Clause amended as "Alternatively, a proven visibility system to be provided to ensure visibility in rear so as to facilitate reverse movement". Please refer Addendum.</p>

All other terms and conditions of the tender will be remain same. This is issued without prejudice to earlier terms and conditions of tender document.


(Navneet Kumar)

Sr. Material Manger