

**Maharashtra Metro Rail Corporation Limited
(Pune Metro Rail Project)**

Dt. 06.06.2019

Corrigendum-VIII

Name of Work: Design, Manufacturing, Supply, Installation, Testing & Commissioning of Heavy Duty Machine Room Less Elevators & Escalators for Pune Metro Rail Project

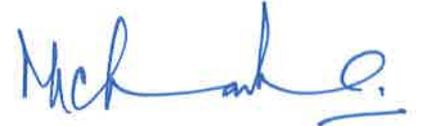
Tender No. P1EG-01/2019

1. Revision of Tender Schedule

Event	As per Corrigendum-VII	Revised Schedule
Date & Time of submission of Tender	10.06.2019 at 16.00 Hrs.	01.07.2019 at 16.00 Hrs.
Date & Time of opening of Tender	10.06.2019 at 16.30 Hrs.	01.07.2019 at 16.30 Hrs.

2. Addendum-2 for Escalators (Lot-2) with Annexure-14- (07) Seven Pages Only

Note: No further Pre-Bid Queries shall be accepted from bidders and no further extension in tender submission date will be granted.



**GM (Procurement)
Maharashtra Metro Rail Corporation Ltd.
Pune Metro Rail Project**

Addendum-2

Name of Work:		DESIGN, MANUFACTURING, SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF HEAVY DUTY MACHINE ROOM LESS ELEVATORS & ESCALATOR FOR PUNE METRO RAIL PROJECT.			
Tender No:		P1EG-01/2019, Escalators (Lot-2)			
S. No.	Part No.	Section	Clause. No.	Existing Clause	Replaced with
1	Part-2	Section-VII C Work Requirement Particular Specification (Lot-2)- Escalators	6.4.1.2	Truss shall be supported at both ends (and at intermediate support for vertical rises above 5m) with resilient supports and bearing plates. The provision of bearing plates and resilient supports shall be included in this Contract but shall be co-ordinated with the respective Civil Contractors. Resilient supports shall be designed for the purpose of preventing the transmission of noise and vibration to the station structure.	Truss shall be supported at both ends without intermediate support for all vertical rises with resilient supports and bearing plates. The provision of bearing plates and resilient supports shall be included in this Contract but shall be co-ordinated with the respective Civil Contractors. Resilient supports shall be designed for the purpose of preventing the transmission of noise and vibration to the station structure.
2			8.1.7 a)	Structural loading and deflection of the Escalator truss (with and without intermediate support).	Structural loading and deflection of the Escalator truss (without intermediate support).
3			-	APPENDIX - A, INTERFACES	Refer Annexure-14 to Addendum 2

ANNEXURE-14

(LOT-2)

APPENDIX - A

INTERFACES

Subject	Civil contractor responsibilities	Electrical Contractor Responsibility	Contractor Responsibilities
Escalators	<p>Design :</p> <p>Identify escalator locations and sizes of escalators. Define mounting and structural provisions for escalator assemblies, Coordinate access and delivery space provisions</p> <p>Construction: Provide escalator structure including upper and bottom pits with the notches. The pits shall have gravitational drainage system.</p> <p>Cut outs for fixing traffic bollards and for laying of cables.</p> <p>Providing and fixing of hoisting hooks.</p> <p>Drainage Pit from the escalator should be away from the escalator pit for ease of cleaning.</p> <p>The depth of the sump / drain pit should be more than the depth of Escalator pit for effective drainage.</p> <p>Wall should not be provided beside the escalator pit, to avoid obstruction in opening of covers of escalator pit for maintenance purpose.</p>	<p>Electrical power, Control Interfaces and system shall be developed.</p> <p>Construction: Provide three phase power with dual earth duly terminated on a suitable MCCB in the Escalator control room /enclosure.</p> <p>Provide water connection to Escalator sprinkler system. provide Connection to Fire detector installed in the Escalators Pits from the Main Station</p> <p>Fire detection system: If separate Escalator Control room is constructed, then Provide lighting, ventilation and power socket in the escalator control room.</p> <p>Provide cast in Conduits/race ways from escalator control room to escalator's nearest pit.</p> <p>Provide cable tray / conduit /trunking from escalator control room to SCR for escalator data cable.</p>	<p>Define requirements and provide design details to Civil and E&M contractor for escalator's various requirements.</p> <p>Co-ordinate details of mounting provisions, power supply, electric load and control requirements.</p> <p>Furnish sizes for escalator controller enclosures, pit, support details and well way dimensions.</p> <p>Co-ordinate fire safety requirement with firefighting systems. Interface with Civil Contractor and Architect for location of suitable hoisting hooks and stray water drainage arrangements.</p> <p>Construction: Provide Isolating Switch (suitable capacity MCCB and ELCB) before the Escalator controller where the main power supply cable will be terminated.</p> <p>Provide and install escalator units complete with claddings, finishes and operating mechanisms.</p> <p>Provide lighting, ventilation and power socket in the escalator Controller / Enclosure.</p> <p>Plan escalator section / sizes considering local site conditions to facilitate easy transportation to installation location.</p> <p>The gap between escalators and the sides of escalator</p>

			<p>and the adjoining walls/ parapet walls /Stairs shall be provided with decking extensions up to 300 mm.</p> <p>The Contractor shall allow a gap of approximately 15mm between the decking and the adjacent walls/ parapet walls. The gap shall be filled up by the Escalator Contractor with flexible sealant.</p> <p>Provide and install Fire detectors in the Escalators Pits and Escalator Control Room / Escalator Controller Cabinet.</p>
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Subject	Architect / DDC Responsibility	Civil Contractor Responsibility	Electrical Contractor Responsibility	Escalator Contractor Responsibility
Escalators	<p>Before erection To issue structural drawings for present and future escalator at stations as per vertical rise of escalators and details of the same. Identification of proper (naturally ventilated and protected from rain shower) escalator control panel location for each escalator in consultation with escalator contractor. Identification of ECP Room (if ECP panel is not placed in open) In Consultation with contractor. identification of location for installation of LED based RMS in CCC / SCR</p>	<p>Before erection Adequate storage area at station / depot / storage yard including proper access to storage area from nearby road for carrying escalators by cranes / trailers To protect and cover future escalator shafts suitably. Marking for finished floor level at top support, and bottom support of escalator. Slope of finished floor in the vicinity top and bottom pits of escalator should be away from escalator to prevent entry of mopping water to top and bottom pit of escalators. Adequate extension of roof sheet above the entrance escalator on both sides of escalator for protection of escalator from rain showers Installation of foldable gate and SS grill with locking arrangement for entrance escalators to prevent theft and sabotage. Load testing of hooks. Pit cleaning, PCC work and construction of slope in pit towards drainage hole. Hole in Slab / Wall for cable entry from</p>	<p>Before erection Single phase power supply for LED based RMS panel in Customer Care Centre / Station Control Room. Adequate lighting fixtures above the escalator for Proper illumination UPS supply at Escalator Control Panel as per requirement of escalator contractor. Testing Fire detectors testing</p>	<p>After erection Installation of Traffic Bollards RMS cable laying Installation of LED based RMS Panel in CCC / SCR. Installation of escalator safety instructions in chrome plated stainless steel pipe frame both in Hindi and English language at both landings. Testing Load testing Escalator safety testing</p>

		<p>escalator control panel (ECP) to escalator pit, from Escalator Switching Room (ESR) to ECP. Finishing of roof ceiling, painting, etc. above escalator.</p> <p>After erection Stone Flaming for making it rough surface. Filling of Gap (between stone and floor plate). Filling of gap around escalator pit on all side. Storage area for maintenance purpose. SS hand rail near top floor plate and bottom floor on both side of the escalator as per the requirements of the escalator contractor.</p> <p>Testing: Drainage Hole connectivity to Sump Checking.</p>		
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