

MAHARASHTRA METRO RAIL CORPORATION LIMITED
Pune Metro Rail Project

Date: 28-May-2019

CORRIGENDUM – VI


Tender No.: P1EG-01/2019

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

Ref: Further to **Tender Document** dated 23 Jan 2019, **Corrigendum I** dated 09 Feb 2019, **Corrigendum II** dated 29 Mar 2019, **Corrigendum III** dated 30 Apr 2019, **Corrigendum IV** dated 11 May 2019, **Corrigendum V** dated 20 May 2019

The following documents shall be part of Corrigendum VI

- 1) CORRIGENDUM – VI: Reply to Bidders Queries; 01 Page
- 2) Annexures-3A (Lot 1 & 2) and 13 to Corrigendum-VI; 17 Pages



AGM (Procurement)
Maha-Metro, PMRP

Corrigendum-VI

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

Reply to Bidder's queries

Sr. No.	Part No./ Clause	Clause No/Page No	Tender Condition/ Tender BOQ / Spec - Description	Bidder's Queries	Maha-Metro's Response
1	-	-	-	SITC of Elevator & Escalators for Metro, Airport & Railway in Last 10 Years to be: Single Contract of INR 540 Million or	Repeated query of corrigendum-IV at Sr. No. 5 & 6. Tender condition prevails.
2	-	-	-	Credentials from group of compnies to be considered	Repeated query of corrigendum-IV at Sr. No. 298 Tender condition prevails.
3	-	-	-	Grant for extension of Bid submission till 30th June 19	Please refer e-procurement portal of MAHA-METRO for notification pertaining to time extension
4	2	4.15, Section-VII-B Work Requirement Particular Specification (Lot-1)- Elevators	-	Request you to please clarify the point of Elevators being measured rise wise.	The Elevators rise is being measured from Finish Floor Level (FFL) of one floor to FFL of another floor.
5			-	As per our Observation Glass Balustrade is required for the Elavators	The Glass Balustrade is related to Escalators only and Elevators are having glass door only. Please refer Annexure-6 of Corrigendum-IV on e-procurement portal of MAHA-METRO.
6			-	Our Observation in Table-1-no. of stoppages isn't mentioned as per the travel height given.	Please refer Note Point no. 3 of Annexure-6 of Corrigendum-IV on e-procurement portal of MAHA-METRO.
7	1	8, Section-IV. Bidding Form	It is agreed by all the Members that there may be a separate Consortium Bank Account (distinct from the bank accounts of the individual Members) and the financial obligations of the Consortium shall be discharged through the said Consortium Bank Account and also all the payments received by the Consortium from the Employer shall be into that account.	Bank Account in the Joint name is applicable for joint ventures, whereas Joint Bank Account not possible in case of consortium. For forming consortium of foreign and Local partner, The Local partner shall be the Leader of consortium and as per clause of Joint Bidding Agreement (Form 8, Para- 2, 3, 12, 13,14) The Lead partner is authorised for execution and performance of the Contract and Financial obligation on behalf of all Partners of the consortium. Request to clarify that Bank Account of the Authorised Partner/Lead Partner is sufficient for discharge of financial obligation of the contract.	Bank Account of Lead Partner is sufficient for discharge of financial obligations of the contract.
8	Part 2, Section-VII-C Work Requirement Particular Specification (Lot-2)- Escalators	6.3.2 of General Requirements	Escalators shall be heavy duty, reversible type and capable of operating safely, smoothly and continuously in both directions for a period of not less than 20 hours a day, seven (7) days a week with a alternating passenger load reaching 100% of Contract Load (120kg per step) for two hour and 50% of Contract Load for the following two hours within the environmental conditions as stated in the General Specification and at the location where the Escalators are to be installed.	Request to replace the clause as below: Escalators shall be heavy duty, reversible type and capable of operating safely, smoothly and continuously in both directions for a period of not less than 20 hours a day, seven (7) days a week with a alternating passenger load reaching 100% of Contract Load (120kg per step) for two one hour and 50% of Contract Load for the following two hours within the environmental conditions as stated in the General Specification and at the location where the Escalators are to be installed.	Agreed
9	Part 2, Section-VII-C Work Requirement Particular Specification (Lot-2)- Escalators	6.3.16 Escalator components shall be protected against corrosion as follows:	a)Truss, tension carriage, main drive, floor plate and comb plate supporting structure and backing- Hot-dipped galvanised, minimum thickness 85µm	a)Truss, floor plate and comb plate supporting structure and backing-Hot-dipped galvanised, minimum thickness 85µm, b) tension carriage, main drive - 3 Layer Painting	Agreed
10	Part-1: Section-IV. Bidding Form	8, Form of Joint Bidding Agreement	15. It is agreed by all the Members that there may be a separate Consortium Bank Account (distinct from the bank accounts of the individual Members) and the financial obligations of the Consortium shall be discharged through the said Consortium Bank Account and also all the payments received by the Consortium from the Employer shall be into that account.	To Be Deleted (It is not possible to open the Bank account in name of Consortium)	Repeated query at Sr. No. 7
11	Part 2 Section-VII-B Work Requirement Particular Specification (Lot-1)- Elevators	APPENDIX E Spare Policy for Electrical Contracts	Annexure-3 of Corrigendum IV	As per Modified list	Agreed, Refer Annexure-3A to this Corrigendum
12	Part 2 Section-VII-C Work Requirement Particular Specification (Lot-2)- Escalators	APPENDIX E Spare Policy for Electrical Contracts	Annexure-3 of Corrigendum IV	As per Modified list	Agreed, Refer Annexure-3A to this Corrigendum
13	Part-1: Bidding Procedure Section-II: Bid Data Sheet, Section IV – Bidding Forms			As per tender requirments we have to submit documents of our consortium partner with Embassy Stamp. The whole process of Notarisation and Embassy Stamping requires minimum 6 weeks. Hence, we request you to allow us to submit the documents duly stamped by the Embassy within 3 weeks after Bid submission deadline. In case it is mandatory to submit these documents along with the bid, kindly extended the deadline for Bid submission till 20th June, 2019.	Please refer Annexure-13 to this Corrigendum.
14	Part I – Bidding procedures Section IV– Bidding Forms, Annexure- 1 of Corrigendum IV	8. Form of Joint Bidding Agreement & 8(A) Draft Memorandum of Understanding (MOU) for JV Participation		Since we are submitting our Bid as a Consortium, we will be submitting the Consortium Agreement in line with the revised Form of Joint Agreement given under Annexure- 1 of Corrigendum IV. We need not submit the "8A. Draft Memorandum of Undertaking (MOU) for JV participation". Kindly, confirm whether our understanding is correct.	Your understanding is correct.

ANNEXURE – 3A

(Lot-1)

Annexure-1
List of Recommended & Consumable Spares

S.No.	Description	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1.					
2.					
3.					
.					
Total					

*Total Amount is inclusive of all applicable Taxes & Duties.

Note: (i) List is to be prepared by the Contractor

(i) Submit the list after blanking the price in the Technical Package

Annexure-2
Unit Exchange Spares

S.No.	Description	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1.	Complete Motor Assembly	1 of each Type			
2.	Door Assembly	1 of each Type			
3.	MAP	2			
4.	SEP	2			
5.	Guide Rail	2set			
Total					

*Total Amount is inclusive of all applicable Taxes & Duties.

Note: Submit the list after blanking the price in the Technical Package

Annexure-3

List of DLP Spares

S. No.	Item	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1	Elevator announcement unit	5			
2	Door belt	10			
3	Brake release wire	5			
4	Door contact switch	25			
5	Brake unit	2			
6	E-MOTIVE display board	06			
7	Door guide shoe	50			
8	V3F drive	4			
9	ARD unit	2			
10	Door module card	4			
11	Emergency key	25			
12	Door motor	2			
13	Car shoe liner	20			
14	EPABX	6			
15	LCE CAN	6			
16	LCE CCB board	12			
17	LCE COB	15			
18	LCE CPU	6			
19	LCE PCB board	12			
20	LCE OPT board	8			
21	LCE REC board	6			
22	LCE-230 (ADO/ ACL CARD)	14			
23	LCE-CIB, PCB board	11			
24	Light curtain (COL 3D)	10			
25	Monostable switch (for levelling and door zone)	8			
26	Bistable switch (declaration switch)	12			
27	Inspection box (maintenance station)	5			
28	Track roller	50			
29	Rope for synchronization-car	20			
30	Rope for synchronization-Landing door	20			
31	Landing call button set	5 sets			
32	All type of buttons inside car	10 sets			
33	Stop switch	15			
34	Synchronization roller for car door A-1	20			
35	Synchronization roller for car door A-2	20			
36	Synchronization roller for Landing door A-1	20			
37	Synchronization roller for Landing door A-2	20			

38	Wheel for Tachometer	12			
39	Tachometer	5			
40	Surge separator	10			
41	ELCB	6			
42	MCB (4 pole)	6			
43	AMD 2 Coupler	5			
44	Rope for closing weight, Assy.	15			
45	Anti-Elevator roller	20			
46	Battery sealed Lead acid 12V/12Ah (EBD)	20			
47	Battery sealed Lead acid 12V/7Ah (CCB)	15			
48	Blocking device switch	10			
49	Braking register Assy.	5			
50	Brake opening device	2			
51	Car diverter wheel assy.	1			
52	Car door header	1			
53	Control current transformer	2			
54	CWT safety gear	2			
55	CWT diverter wheel assy.	1			
56	Door belt pulley	8			
57	Door contact bullet (break)	18			
58	Door set complete (car and landing door)	1 set			
59	End buffer	20			
60	Fan and stop PCB assy.	2			
61	Car fan	10			
62	Final limit switch	10			
63	Final lock latch unit/ lock roller unit	15			
64	Guide shoe for CWT	100			
65	Guide shoe assy. (MAHA-METRO)	4			
66	Hands free unit (used in SCR)	10			
67	Handset phone (used in MAP)	10			
68	Intercom PCB used in COP	5			
69	KDS 300 HLG ASSY: BOTTOM	10			
70	KDS 300 HLG ASSY: TOP	10			
71	LIMIT SWITCH	8			
72	LOP 230 FUSE 250V, 1A	20			
73	LOP 230 FUSE 250V, 2A	20			
74	LOP 230 Board	5			
75	LOPCB Board	18			
76	LWD device	5			
77	Main steel rope	100 meter			
78	Oil cup	50			
79	OSG	2			
80	OSG rope	35 meter			
81	PFRR card	5			
82	Photo cell	20			

83	Resistor box assy.	4			
84	Safety gear jaw	2			
85	Safety gear switch	5			
86	Shaft door header (Landing top track)	1			
87	Tension weight switch	10			
88	Travelling cable	2 set			
89	Upper isolation rubber pad	2			
90	Water sensor in pit	5			

*Total Amount is inclusive of all applicable Taxes & Duties.

Note:

- (a) The above list is based on MAHA-METRO's experience. The contractor is required to update the above list with their specific models/ make/ nomenclature/ rating in line with the proposed model of the elevators and submit. Contractor need to submit the un-priced list in the Appendix F of the technical package.
- (b) The list is indicative and not exhaustive. Any additional spares in compliance to GS Clause 13.5 and PS Clause 17.1.2, 18.5, if required the same may be indicated by the firm in their technical offer.
- (c) If any additional spares is required other than the indicative list above or there is a repeated occurrence of failure of any component during the DLP period, the same will be arranged by the contractor, without any Extra payment.**
- (d) This will not absolve the firm of the responsibility to fulfill the DLP obligations as per relevant clause of PS.
- (e) Contractor may review the List & Quantity of spares in view of clause-6.2.5 of PS.

ANNEXURE – 3A

(Lot-2)

Annexure-1

List of Recommended& Consumable Spares

S.No.	Description	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1.					
2.					
3.					
.					
Total					

*Total Amount is inclusive of all applicable Taxes & Duties.

Note: (i) List is to be prepared by the Contractor

(i) Submit the list after blanking the price in the Technical Package

Annexure-2

Unit Exchange Spares

S.No.	Description	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1.	Complete Motor Assembly	1 no. of each category			
2.	Complete chain drive Assembly	1 no. of each category			
3.	Complete escalator control panel	1 no.			
Total					

*Total Amount is inclusive of all applicable Taxes & Duties.

Note: Submit the list after blanking the price in the Technical Package

Annexure-3

List of DLP Spares

Sr. No	Item	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1	Emergency brake complete assembly	1			
2	Photocell sensor with transmitter	20			
3	Handrail antistatic brush or roller	10			
4	Step antistatic brush	10			
5	Pit lamp	30			
6	Emergency stop switch	10			
7	Service brake coil assembly	2			
8	Bottom shaft bearing	6			
9	Handrail shaft bearing	6			
10	Main shaft bearing	6			
11	Control panel exhaust fan	10			
12	Control panel filter	50			
13	Comb carrier assembly	1			
14	Breaking control unit of each rating	1			
15	V3F drive of each type rating	1			
16	Smoke detector	10			
17	Escalator control panel lock assembly (window, main lock, inside door lock)	20			
18	Contactors of each type and each rating	3			
19	Relays of each type and each rating	3			
20	Float switch (water level sensor)	6			
21	All safety switches of each type	5			

22	All sensor of each type	7			
23	Speed with all selector switch	3			
24	Hour meter	3			
25	Local/ Remote switch	1			
26	Motherboard or equivalent PLC with all attached PCB cards	5 set			
27	Combs of all types	20 each			
28	Transformer	2			
29	PLC communication port	5			
30	Digital display	10			
31	Skirt brush	30 mtr.			
32	Skirt brush bracket	10 mtr.			
33	Comb plate actuating assembly (Left & Right)	1 each			
34	Step roller	50			
35	Chain roller	50			
36	Relieving curve bottom and top	1 each			
37	Step axle	10			
38	Step bride	10			
39	Step brush	10			
40	Step lock pin	10			
41	Oil lubrication pump	2			
42	Oil pressure switch	5			
43	Oil lubrication brush	50			
44	Oil lubrication pipe	10			
45	Oil lubrication pipe assembly (distributor)	10			
46	Control panel light with assembly	5			
47	Comb light	10			
48	Handrail inlet (entry boot)	10			

49	MCCB of each type rating	1			
50	MCB of each type rating	2			
51	Floor plate support	10			
52	Direction indicator	10			
53	Key switch	15			
54	Steps	20			
55	Handrail reversing wheel	1			
56	Friction wheel	2			
57	Handrail support roller	20			
58	Handrail guiding roller	20			
59	Handrail shaft	1			
60	Main shaft	1			
61	Bottom shaft	1			
62	Brake resistance of each type rating	2			
63	Floor plate complete set	2 set			
64	Floor plate hinge	1			
65	Broken chain assembly	4			
66	Pit emergency stop	10			
67	Wago connector of each size	5			
68	Circlip of each size	20			
69	Power cable of each size	10 mtr.			
70	Control cable of each size	10 mtr.			
71	Service brake liner	2 set			
72	Safety brake liner complete set	1			
73	Liner decking screw assembly	100			
74	Tangential guide	2			
75	Lateral guide for step entry	10			
76	Step chain suitable for highest rise of escalator	1 set			

	including left and right				
77	Step guide pad	20			
78	Handrail pressure assembly complete set	1			
79	Handrail entry plastic profile	10			
80	Floor plate lining of complete set bottom and top	1			
81	Handrail of standard size of escalator including left and right	1 set			
82	Bumper for main shaft if used complete for 1 escalator	50			
83	Pit exhaust fan if required	5			

*Total Amount is inclusive of all applicable Taxes & Duties.

Note:

- 1 The list is indicative and not exhaustive. Any additional spares in compliance to GS Clause 13.5 and PS Clause 17.1.2, 18.5, if required the same may be indicated by the firm in their technical offer.
- 2 **If any additional spares is required other than the indicative list above or there is a repeated occurrence of failure of any component during the DLP period, the same will be arranged by the contractor, without any Extra payment.**
- 3 This will not absolve the firm of the responsibility to fulfil the DLP obligations as per relevant clause of PS.
- 4 Contractor may review the List & Quantity of spares in view of clause-4.10 of PS.

Annexure-4

List of Mandatory Spares

S. No	Item	Quantity	Unit Price		*Total Amount
			Foreign Currency	INR	
1	Emergency brake complete assembly	5			
2	Photocell sensor with transmitter	5			
3	Handrail antistatic brush or roller	50			
4	Step antistatic brush	50			
5	Pit lamp	10			
6	Emergency stop switch (bottom & middle)	5 each			
7	Service brake coil assembly	1			
8	Bottom shaft bearing	4			
9	Handrail shaft bearing	4			
10	Main shaft bearing	4			
11	Control panel exhaust fan	4			
12	Comb carrier assembly	2			
13	Breaking control unit of each rating	1			
14	V3F drive of each type rating	1 set each			
15	Smoke detector	20			
16	Escalator control panel lock assembly (window, main lock, inside door lock)	5 each			
17	Contactors of each type and each rating	2			
18	Relay of each type and each rating	2			
19	Float switch (water level sensor)	4			

20	All safety switch of each type	4			
21	All sensor of each type	4			
22	Speed with all selector switch (lockable)	410			
23	Hour meter safety switch (reset)	210			
24	Local/ Remote switch	410			
25	Motherboard or equivalent PLC with all attached PCB cards	3 each 10			
26	Combs of all types Varistor module	200 each 5			
27	Transformer for control panel Yellow colour Pit light	2 no.s 10			
28	PLC communication port motor of each rating	51 of each type			
29	Digital display Glass Panel Flat (Balustrade) of each category	55 of each type			
30	Skirt brush stainless steel panel (Balustrade) of each category	20 mtr. of each type			
31	Skirt brush bracket	10 mtr.			
32	Comb plate actuating assembly (Left & Right)	3 each			
33	Step roller	40			
34	Chain roller	40			
35	Relieving curve bottom and top	3 each			
36	Step axle	20			
37	Step bride	25			
38	Step brush	25			
39	Step lock pin	25			
40	Oil lubrication pump	1			
41	Oil pressure switch	2			
42	Oil lubrication brush	50			

43	Oil lubrication pipe assembly (distributor)	2			
44	Control panel light with assembly	2			
45	Comb light	10			
46	Handrail inlet (entry boot)	5			
47	MCCB of each type rating	1			
48	MCB of each type rating	2			
49	Floor plate support	5			
50	Glass balustrade of each shape and size	1			
51	Direction indicator	5			
52	Key switch	10			
53	Steps	60			
54	Handrail reversing wheel	2			
55	Friction wheel	4			
56	Handrail support roller	20			
57	Handrail guiding roller	20			
58	Handrail shaft including sprocket	1			
59	Main shaft including sprocket	1			
60	Bottom shaft/ return shaft including sprocket	1			
61	Brake resistance of each type rating	1			
62	Handrail chain	2 set			
63	Drive chain	2 set			
64	Floor plate complete set	1			
65	Floor plate hinge	4			
66	Broken chain assembly	2			
67	Pit emergency stop	2			
68	Wago connector of each size	2			
69	Circlip of each size	10			
70	Power cable of each size	25 mtr			

71	Control cable of each size	50 mtr			
72	Service brake liner	4			
73	Safety brake liner complete set	2			
74	Tangential guide	4			
75	Lateral guide for step entry	8			
76	Step chain	20 mtr			
77	Step guide pad	50			
78	Handrail pressure assembly complete set	2			
79	Handrail entry plastic profile	4			
80	Gear oil as recommended	2 barrel			
81	Lubrication oil as recommended	1 barrel			
82	Sticker "Pictogram" as per EN115	200 no.s			
83	Sticker "Emergency stop"	200 no.s			

*Total Amount is inclusive of all applicable Taxes & Duties.

Note:

- 1 The list is indicative and not exhaustive. Any additional spares in compliance to GS Clause 13.1 and PS Clause 18.2.2, if required the same may be indicated by the firm in their technical offer. The quantity of spares shall be determined in accordance with the formula described in clause 13.3.5 and 13.3.6 of GS.

The employer reserves the right to revise the items & the quantity in the list based on the experience/ performance during the Defect Liability Period, **at No extra cost.**

Annexure- 13 (Corrigendum VI)

24. Undertaking for submission of documents requiring endorsement from Indian Embassy

(To be submitted on Bidder's Letterhead)

Dated:

**CONTRACT No. [“Insert Contract No.”]
[“Insert Name of the Work.”]**

Letter of Undertaking

We hereby undertake that, only the documents as per the requirements of the tender, requiring endorsement of the Indian Embassy, shall be submitted within 21 days of the date of Bid Submission. In case, we fail to submit these documents as per the requirements of the tender, our Bid may be summarily rejected.

**SIGNATURE OF THE BIDDER
Seal**

Note:

These documents shall be submitted physically in hard copy in the office of GM(Proc)/Pune duly marked “Not to be Opened by Anyone except GM (Procurement)” at the following address:

***GM(Procurement)
MAHARASHTRA METRO RAIL CORPORATION LIMITED,
101, The Orion, Opposite Don Bosco Youth Centre,
Koregaon Park, Pune 411001 (INDIA)***