



**"TRACK MAINTENANCE WORK OF EW CORRIDOR (THALTEJ GAM STATION TO VASTRAL GAM STATION WITH DEAD ENDS INCLUDING APPAREL PARK DEPOT & RAMPS) OF AHMEDABAD METRO PHASE-1"**

**TENDER NO.: GMRC/O&M/TRACK MAINTENANCE/EW/PH-1/2026**

**VOLUME III**

**Bill of Quantities (BOQ)**

**Gujarat Metro Rail Corporation (GMRC) Limited**

(SPV of Govt. of Gujarat and Govt. of India)

Formerly known as Metro Link Express for Gandhinagar and Ahmedabad (MEGA) Co. Ltd.

Block No.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan,  
Sector 10/A, Gandhinagar: 382010,  
Gujarat, India

Corporate Identification No (CIN): U60200GJ2010SGC059407

**"TRACK MAINTENANCE WORK OF EW CORRIDOR (THALTEJ GAM STATION TO VASTRAL GAM STATION WITH DEAD ENDS  
INCLDUING APPAREL PARK DEPOT & RAMPS) OF AHMEDABAD METRO PHASE-1"**

**Preamble and General Requirements**

**The Pricing Document shall be read in conjunction with technical Specification, Employers Requirement and other provisions of the tender documents etc. including Annexure, Appendix, Addendum / corrigendum and any other document forming part of the Tender Document.**

1	The Bill of Quantities shall be read in conjunction with the Instructions to the Tenderer, General Conditions of Contract, Special Condition of Contract and Scope of work / Technical specifications etc. If the specifications in the scope of work / Technical specification are inferior with respect to relevant codes and standards then provision of the Codes and Standards shall prevail and vice versa. The decision of the Engineer-in- charge regarding this issue shall be binding on the contractor.
2	The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered and accepted in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract. The quantities may vary with reference to tender BOQ. The rates in BOQ are inclusive of GST and all other Taxes and cess, octroi etc. as on date of submission.
3	<p>The following words shall have the meanings hereby assigned to them:</p> <p>Unit: The unit of measurement for each item of work in terms of the General and Special conditions of Contract, Technical Specifications.</p> <p>3.1.1 Quantity: The number of units of work for each item.</p> <p>3.1.2 Rate: The payment of quantity and the rate tendered for an item (inclusive of all Taxes).</p> <p>3.1.3 Amount: The product of the quantity and the rate tendered for an item.</p> <p>3.1.4 Lump Sum: An amount tendered for in item, the extend of which is described in the Bill of Quantities, the Conditions and the Technical Specifications, but the quantity of work of which is not measured in any units.</p> <p>Reference shall be made to the General and Special Conditions of Contract regarding Provisional and Prime Costs Sums.</p>

## PAY ITEMS

4.1 The abbreviated descriptions of the payment items given the Schedule of Quantities are only for the purpose of identifying the items and providing specific details. Reference shall be made, interilic, to the Drawings, Specifications, Technical Specifications, General Conditions of Contract and Special Conditions of Contract for the more detailed information regarding the extend of the work entailed under each item.

4.2 The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in the specifications.

4.3 The units of measurement indicated in the Bill of Quantities are metric units.

The following Units are used in the pay items of the Bill of Quantities:

Units	Interpretation	Ref. Pay item
Per meter of Viaduct	Meter Length of Elevated Viaduct Section	Item No.1
Per meter	Meter Length of Handrails on either side of the Viaduct	Item No. 2
Per sleeper	Each count of sleeper in the section attended	Item No. 3.1 and 3.2
Per meter single rail	Meter length of the single outer rail greased	Item No. 4
Each	Each count of complete marking including background coats and lettering	Item No. 5
Nos.	Each Number count of ERC greased	Item No. 6
Per meter	One side Meter length of single track line on which dressing is carried out	Item No. 7
Nos.	Each number count of corresponding fastening system of which Toe Load measured	Item No. 8.1 and 8.2
Meter length of pedestal	Meter length of each pedestal of finished grouting work carried out	Item No. 9
Ltr	Unit Liter of corresponding material provided and applied/injected/filled	Item No. 10 and 11
kg	Unit Kilogram of material laid	Item No. 12
100 SQM	Per 100 Square meter of area cleaned/cut	Item No. 13

Units	Interpretation	Ref. Pay item
Days	Number of Days MSS level checked in PTW	Item No. 14
Per hour	Working hours done by Hydra/JCB as per logbook	Item No. 15
Nos	Each Number (1 set) of In-Situ Glued Joint replaced	Item No. 16
MT	Weight of Rail panel /Crossing/ Switch transported	Item No. 17
Nos	Each Number of Crossing replaced	Item No. 18
Nos	Each Number of Half set Switch replaced	Item No. 19
Per Trip	Each Number of trip done by trailer	Item No. 20
Per Weld/Rail Replaced	Each number of defective rail/weld replaced	Item No. 21
Meter Rail	Meter length of rail distressed in Depot line	Item No. 22
Meter Rail	Meter length of rail distressed on Viaduct or in Tunnel	Item No. 23
Per Nos of Buffer stop	Each number of Buffer stop checked	Item No. 24
Per Board	Each number of Replacement/Fixing of signage Boards	Item No. 25
Per Track Meter Length	Meter length of both rail fastenings through inspection	Item No. 26

5	<p>RATES</p> <p>5.1 The tenderer shall not group together a number of items and tender one rate for such group of items.</p> <p>5.2 All rates and sums of money quoted in the Bill of Quantities shall be in INR.</p>
6	<p>GENERAL NOTES</p> <p>6.1 These bills of quantities form part of and must be read in conjunction with the Specifications, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service.</p> <p>6.2 The bills priced in detail shall be submitted with the tender. The bills shall have all items properly priced and extended. If any items in the bills are not priced it shall be deemed that either no costs are involved or the costs are covered elsewhere.</p> <p>6.3 The total tender price in the Tender Form shall constitute the contract price of the successful tenderer. Tenderers are advised to check their item extensions and total additions, as no claim for arithmetical errors will be considered.</p> <p>6.4 No alteration, erasure or addition in the text of the bills of quantities will be recognized and as such, the original wording of these bills of quantities will be adhered to.</p> <p>6.5 The Tenderer's offer shall be inclusive of all taxes and duties payable by them. Income Tax and any other statutory taxes to be deducted at source, if any, will be deducted by the Employer in accordance with the Income Tax Act and any other acts in force and in accordance with instructions issued by the Authorities on this behalf, from time to time.</p>
7	Appendix 13 as duly filled in and priced should be invariably submitted in the Financial Package and the evaluation of Financial Package by the Employer will be done in accordance with E 5.1.2 of ITT and other relevant terms and conditions of the Tender.
8	Tender Total to be sum of total amount as derived/ quoted in the summary sheet along with addition of Price of unqualified withdrawal of all conditions of Deviation, as per APPENDIX - 13A, if any. This Tender Total will be used for comparative evaluation of the Tenders.
9	The tenderer shall include in the Annexure-1 Tax Estimate of the tender document, the rates/amounts considered in the state and central Tax, duties, levies and included in the tender price and Gujarat state government taxes, cesses and levies
10	The tenderer should quote his percentage against each Schedule in the "summary sheets of each part" only on N Procurement Portal and nowhere else.

"TRACK MAINTENANCE WORK OF EW CORRIDOR (THALTEJ GAM STATION TO VASTRAL GAM STATION WITH DEAD ENDS INCLUDING APPAREL PARK DEPOT & RAMPS) OF AHMEDABAD METRO PHASE-1"				
SUMMARY SHEET OF BILL OF QUANTITIES & QUOTED RATES				
Sr. No	Description of Item	Basic Cost (INR) Including of all taxes	% at par/above/below	
			In Figure	In Words
1	<b>Schedule - A</b> (USSOR Items)	₹10,00,000.00		
2	<b>Schedule - B</b> (Non-USSOR Items)	₹1,71,23,929.96		
3	<b>Schedule - C</b> (Manpower)	₹34,45,590.00		
	<b>Total</b>	<b>₹2,15,69,519.96</b>		

**Note:**

- 1.0 The tenderer shall quote a single percentage (Above/Below/At Par) at SN. 1, 2 & 3 of this Grand Summary Sheet only and nowhere else.
- 2.0 The bidder's quote to be filled in Annexure – 1 (i.e. Summary Sheet of Bill of Quantity), it should be inclusive of all taxes.
- 3.0 The tax bifurcations to be filled in Annexure – 2 (i.e. Details of Taxes and Duties).
- 4.0 The Proforma for Statement of Minor Deviations to be filled in Appendix -13 A
- 5.0 The bidder may note that the tenure for this works is 24 months

Bill of Quantity(BOQ)					
Name of work:-"TRACK MAINTENANCE WORK OF EW CORRIDOR (THALTEJ GAM STATION TO VASTRAL GAM STATION WITH DEAD ENDS INCLUDING APPAREL PARK DEPOT & RAMPS) OF AHMEDABAD METRO PHASE-1";					
BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
Schedule-A (USSOR Items)					
1	Any USSOR item from Unified Standard Schedule of Rates (Formation Works, Bridge Works and P.Way Works) 2021 or Latest, except items mentioned in the schedule B	LS	LS		
		Each			10,00,000.00
	Total Amount for Schedule -"A"				10,00,000.00
Schedule-B (Non-USSOR Items)					
1	Through cleaning of track beds/fittings with wire brush/sandpaper, track side area, drain of Viaduct upto deck level and Tunnel excluding station platform location by brush, broom, etc. as required and disposal of rubbish, muck etc. out of Via-duct has to be done by contractor to the dumping ground approved by AMC, with contractors' labour, materials, etc. tools and plants complete. The work has to be done once in 30 days interval or as directed by the engineer in charge.	Per meter of viaduct (Including both tracks)	525000.00	7.45	39,11,250.00
2	Cleaning of Hand rails of viaduct & Tunnel along UP/DN lines. The work has to be done once in 30 days interval or as directed by the Engineer in-charge.(It includes cleaning of all horizontal and vertical components of railing in each meter of railing length)	Per meter	1050000.00	1.26	13,23,000.00
3	Picking up of slacks as directed by the Engineer, with contractor's manpower, tools & plants etc. (The activity includes lining, levelling, gauging, fitting correction/isolated replacement of fitting etc.)				
3.1	Plain track	Per sleeper	40000.00	46.87	18,74,800.00
3.2	Points and crossing	Per sleeper	6068.00	51.56	3,13,472.88

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BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
4	Greasing of the gauge face of outer running rails in sharp curves and turnout by GMRCL approved grease or equivalent quality with contractor's labour, material, tools & plants etc. Care should be taken during greasing that no grease should come in contact with rail top table. Contractor has to ensure that fortnightly upto 500mtr radius curves or any other frequency as directed by the engineer. The work will be carried out during day and night under PTW (Permit to work) hours.	Per meter single rail	875000.00	1.69	14,78,750.00
5	Marking of the stations of curves /turnouts and AT welds during Day or Night time under Permit To Work with contractor's manpower, material, tools & plants etc. as per direction of the Engineer in charge.	Each	4000.00	133.74	5,34,960.00
6	Greasing of the ERCs legs/insert eye with contractor's Grease Graphite (IS-408-1981 Grease No."0" grade) after dry cleaning of the ERC leg and sleeper insert eye by the brush/cloth with contractor's labour, material, tools & plants etc. The work will be carried out during day Shift in Depot under PTW (Permit to work) hours, as per the directions of the Engineer in-charge	Nos	96000.00	6.67	6,40,320.00
7	Dressing of the shoulder ballast (One side) of the track as per LWR/CWR profile and as per instructions of the Engineer In-charge with contractor's labour, tools & plants etc. complete.	Per meter single rail	66000.00	18.75	12,37,500.00



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BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
8	Toe load measurement of Tension clamps/ERC on track during Day or Night under PTW by ITI qualified proficient personnel of contractor with GMRCL provided equipment and as per instructions of the Engineer in-charge. The equipment should be returned in good working condition, any damage will be recoverable from contractor.				
8.1	Fastening system-336	Nos	1400.00	39.62	55,468.00
8.2	ERC	Nos	500.00	44.85	22,425.00
9	Repair of broken or cracked Baseplate Pedestals of turnouts using Sikadur 53 UF Epoxy grout or equivalent. The repair work includes breaking, chiselling and removal of old grout material, placement of shuttering, sealing of gaps and provision and application of the grouting material Sikadur 53UF or equivalent as per manufacturer's specifications with contractor's labour, material, tools&plants etc complete.	Nos	40.00	3529.62	1,41,184.80
10	Providing and injecting epoxy based grout material Conbextra EP10 of M/s Fosroc or equivalent in the RCC plinth of track. The epoxy grout shall be injected under the pressure as per the site requirement with the help of suitable pressure grouting machine during permit to work (PTW).	Ltr	25.00	2638.12	65,953.00
11	Repair and filling of RCC plinth using Conbextra EP 75 of make Fosroc or equivalent including providing and installing of suitable form work	Ltr	50.00	192.77	9,638.50
12	Providing and laying of micro concrete for repair of small damaged patches in RCC plinth of track, including provision and installing of frame work of appropriate size and design.	Kg	72.00	240.95	17348.40

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BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
13	Cleaning/Cutting & disposal of heavy grasses and bushes etc. on the cess and slope area of both sides of track along tracks; This work includes: 1) Cleaning jungle including uprooting of rank vegetation grass, brush wood trees and saplings of girth upto 30 cm and removal of rubbish up to a distance of 50m outside the periphery of the area cleaned. 2) Providing unskilled labour for disposal of Grass upto 4 km outside the periphery of GMRC as directed by Engineer in charge. (At Depot)	100 SQM	1800.00	712.22	12,81,996.00
14	MSS level checking work using Total Station/Digital Level Machine as directed by Engineer in charge. The cost of the work will include supply of machine, all necessary tools and equipment and supply of manpower. (1 Surveyor + 1 Helper).	Days	20.00	5859.00	1,17,180.00
15	Supply of Hydra/ JCB as and when required as per directions of Engineer In-charge	Per hour	120.00	927.55	1,11,306.00
16	Execution of in-situ glued joint G3(L) type for 60Kg rail (Open the old nuts with help of gas cutter), providing new 1mtr fish plates, bolts insulating material, making holes in rails as per required location with transporting all material at site anywhere in GMRC network. The work shall be carried out as & when required and as directed by Engineer in-charge.	Nos	8.00	27529.66	2,20,237.28
17	Manual Transportation of Rail panel /Crossing/ Switch over Dip Lorry from depot to Main line or Mainline to depot or Mainline to Mainline (per KM) and unloading at the designated location including manual loading if required as per the direction of Engineer in-charge.	MT	40.00	1283.92	51,356.80

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BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
18	Crossing Replacement (with all pads, plates, fittings & fastenings etc. if required) at main line/Depot on viaduct/tunnel At- grade section as per direction of Engineer in-charge.	Nos	2.00	19716.82	39,433.64
19	Half set Switch replacement (with all sliding chairs, fish keys, pads, plates, fittings & fastening etc. if required) at Main Line/Depot on viaduct/tunnel at grade section as per direction of Engineer in-charge.	Nos	4.00	35814.45	1,43,257.80
20	Transportation of Rails (18/13/12 meter)/ Switches /Crossing /sleepers on Trailer (30 Ton Capacity) from one location to other as per direction of Engineer in Charge.	Per Trip	1.00	81149.47	81,149.47
21	Removing of defective rail/welds including rail replacement in EW section duly engaging a welding team. The work shall be carried out as per GMRCL track maintenance manual, At-weld manual, USFD manual, method statement submitted by the contractor, and as directed by the Engineer in-charge. The rate is inclusive of all lead, lift, weld, rail transportation from Any GMRCL depot to EW Mainline/Depot and associated works, etc. complete in all respect. Welding portions will be supplied by GMRCL.	Per Weld/Rail Replaced	30.00	16538.00	4,96,140.00
22	De-stressing of the track in Depot of 60kg 880/1080 grade LWR/CWR track by duly removing the fastening, lifting and placing the rails on rollers and (as per the procedure laid down in the Indian Railway LWR Manual) lowering the rails fittings either released or new fastenings correctly to maintain the uniform gauge alignment with or without rail tensor and contractors consumable stores, labours, etc at the location as identified by the Engineer-in-charge	Meter Rail	450.00	99.00	44,550.00

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BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
23	De-stressing of the track on viaduct of 60kg 880/1080 grade LWR/CWR track by duly removing the fastening, lifting and placing the rails on rollers and (as per the procedure laid down in the Indian Railway LWR Manual) lowering the rails fittings either released or new fastenings correctly to maintain the uniform gauge alignment with or without rail tensor and contractors consumable stores, labours, etc at the location as identified by the Engineer-in-charge.	Meter Rail	1800.00	187.00	3,36,600.00
24	Carrying out Yearly Preventive maintenance and inspection of Buffer stop (10 KMPH, 25 KMPH or Higher) as per the standard specification, manual and Engineer/Employer in-charge with approved checklist and submit the report of the same.	Per Nos of Buffer stop	76.00	4833.69	3,67,360.44
25	Replacement/Fixing of signage Boards for Turnout/ Fouling mark /speed restriction / Chainage /Hectometer/curve etc. As per approved drawings of GMRCL as per direction of engineer/Employer in charge. The rates are inclusive of contractor's men, materials & machines and all other incidental charges for complete work.	Per Board	50.00	3221.02	1,61,051.00
26	Through inspection and replacement of insulation bush and other damaged fittings as per site condition, ensuring that the track parameters are within tolerance limits, GMRCL will provide fittings as per the requirement of Engineer-in-Charge.	Per Track Meter Length	12000.00	170.52	20,46,240.00
<b>Total Amount for Schedule -"B"</b>					<b>1,71,23,929.96</b>

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BOQ Item No.	Description of Item	Unit	Quantity	Rate	Amount
<b>Schedule-C (Manpower)</b>					
1	To provide skilled workers for track works in Day & Night shifts as per the requirement of Engineer-in-charge.	Per head per 8 hour shift	4000.00	591.27	23,65,080.00
2	Providing trained and qualified manpower for 8 hours shift, having minimum qualification of ITI for carrying out various inspections of track such as Curve, Points and Crossing etc. or any other track maintenance activities in the night shift only as per direction of Engineer in-charge.	Each	1500.00	720.34	10,80,510.00
	<b>Total Amount for Schedule -"C"</b>				<b>34,45,590.00</b>
	<b>Grand Total of Schedule (A+B+C)</b>				<b>2,15,69,519.96</b>

**Annexure – 1, DETAILS OF TAXES AND DUTIES (Tax Bifurcation) INR: Indian Rupees**

(Refer para 9 of Preamble and General Requirement of Bill of Quantity)

SN	Customs Duty			GST (Goods and Services Tax)												Total Amount of Taxes and Duties in INR  (6) = sum of (1) to (5)
				CGST			SGST			IGST			Any other Tax			
	(1)			(2)				(3)		(4)			(5)			
	Amount on which tax/ duty levied	Rate (%)	Amount (INR)	Amount on which tax/ duty levied	Rate (%)	Amount (INR)	Rate (%)	Amount on which tax/ duty levied	Amount (INR)	Amount on which tax/ duty levied	Rate (%)	Amount (INR)	Amount on which tax/ duty levied	Rate (%)	Amount (INR)	
Total																

Note : 1 Contractor at any point of time shall be bound to share the details pertaining to the Input Tax Credit availed or to be availed along with the supporting documents.

Note:2 In the Tax Schedule Contractor shall require to furnish component wise tax details.

Note:3 Deleted

Note:4 GST TDS will be deducted from the invoice considering the prevailing rates

Note 5 : It shall be sole responsibility of Contractor to pass all the accrue or to be accrued Input tax credit to GMRC as per Section 171 of CGST Act.

APPENDIX - 13A			
PROFORMA FOR STATEMENT OF MINOR DEVIATIONS			
(Refer C26 of ITT)			
The following are the particulars of minor deviations from the requirements of the Tender Document:			
Sr. No	Clause	Deviations	Price adjustment for each deviation/s
<b>Note:</b>			
1 The Tenderer shall indicate price adjustment against each deviation in Appendix 13A of BOQ. This price is the price which the tenderer shall reduced from this tender price if deviation(s) is/are accepted by the Employer.			
2 Where there is no deviation, the statement should be returned duly signed with an endorsement indicating 'No Deviation(s). In case, Performa of deviations is not submitted or submitted as blank, it will be construed that the tenderer has not proposed any deviations from tender documents.			
3 If the tenderer proposes deviations in tender documents, and/or any other terms and conditions of the tender, other than in this Annexure, it will have no effect.			
Signature of authorized signatory on behalf of tenderers			