



**“Engagement of Agency for Geotechnical Investigation Work for 12.576 Km Elevated Viaduct from Canal Road to Badrabad Dead End (from Chainage 6904.984 to 19481.228) of Ahmedabad Metro Rail Project-Phase -III (B)”**

**TENDER NO.: GMRC/GEOTECH/PH-3(B)/2026**

**Volume - III**

**Financial Proposal**

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

(A Joint Venture of Govt. of Gujarat and Govt. of India)

Block No.1, First Floor, Karmayogi Bhavan, Behind Nirman Bhavan,

Sector 10/A, Gandhinagar: 382010,

Gujarat, India

Corporate Identification No (CIN): U60200GJ2010SGC059407

## BILL OF QUANTITIES

### PREAMBLE

**The Financial Proposal shall be filled online on N Procurement portal (i.e. <https://tender.nprocure.com>)**

1. The Bill of quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Scope of Work, and Specifications.
2. The quantities given in the Bill of quantities are estimated quantities. The basis of payment will be actual quantities of work indented and carried out and valued at the rates and prices tendered in the priced Bills of quantities, where applicable and otherwise at such rates and prices as the Engineer may fix within the terms of Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall include all equipment, plant, tools, spares, barricading, labour, supervision, overheads, consumables, materials, erection, maintenance, testing of input material delivered, profit, taxes and duties together with all general risks, liabilities and obligations set out and implied in the Contract and other incidentals to comply with the requirements of technical specifications and scope of work.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities and where no rates are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
6. The contractor shall keep the entire carriageway neat and clean throughout the contract period. The contractor shall maintain guard rails, railings, crash barriers, road furniture etc. in good condition by cleaning them frequently as advised / required by using suitable detergents/chemicals.

The staff of the contractor shall wear safety jackets, shoes, helmets etc. while on duty and any violation will attract a fine of Rs. 5,000/- for each incident.

Failure to erect safety signage or trying to carry out the works without proper precautions/safety measures as required will attract a fine of Rs. 5,000/- for each incident.

7. The Tendered rate for incident Management shall include all equipment, labour, material, consumable, tools, spares, and other incidentals to comply with the requirement of the scope of the work and technical specifications.
8. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. Reference to the relevant sections of the bidding document shall be made before entering rates or prices against each item in the Bill of Quantities.

9. The payments towards Schedule A, B, C shall be made at 95% of the rates of the respective items progressively for the executed quantities. The balance 5% of payment (reserved for schedule D) shall be made after submission of report for each part of the alignment in his scope.
10. The financial bid is to be submitted online on <https://tender.nprocure.com>. The other relevant clauses of submission of bid are clarified in ITT, Para / Clause D1 to D 1.12.

Annexure – 1 (i.e. Summary Sheet of Bill of Quantity)				
SN	Description	Total (in Rs.)	Rate	
			(percent above / below / at par over the basic cost)	
			In Figure	In Words
1	Schedule -A Field Investigation	₹ 1,18,55,595.42		
2	Schedule -B Laboratory Test	₹ 26,89,154.27		
3	Schedule C - Provisional Sum	₹ 1,11,132.00		
4	Schedule D - Preparation and Submission of Report	-		
	<b>Total Amount (excluding GST)</b>	<b>₹ 1,46,55,881.69</b>		

**Note:**

1. The tenderer shall quote a single percentage (Above/Below/At Par) at SN. 1, 2 & 3 of this Summary Sheet only and nowhere else.
2. Evaluation of the tender will be done on amount excluding GST.
3. GST will be reimbursed on submission of proof of payment.
4. If the percentage of GST is changed, it shall be adjusted after notification
5. The tax bifurcations to be filled in Annexure – 2 (i.e. Details of Taxes and Duties)

<b>Bill of Quantity (BOQ)</b>					
<b>BILL OF QUANTITIES</b>					
<b>Item</b>	<b>Description</b>	<b>Item Unit</b>	<b>Unit Rate (Rs.)</b>	<b>Total Quantity</b>	<b>Total Amount</b>
<b>Schedule -A Field Investigation</b>					
1	Exploratory Vertical rotary drilling of Boreholes 150mm dia through all kinds of soils with adequate / suitable equipment, tools and tackles upto 50mtr depth measured below existing ground level including mobilization, setting up boring rig, shifting of rig from one borehole to another and demobilization of the same and refilling the boreholes and reinstating surface. The top five meters of borhole shall be backfilled with M15 Concrete.				
i)	0m to 10m	Mtr.	402.35	2710	10,90,368.50
ii)	10m to 20m	Mtr.	502.83	2710	13,62,669.30
iii)	20m to 30m	Mtr.	653.55	2710	17,71,120.50
iv)	30m to 40m	Mtr.	804.69	2710	21,80,709.90
v)	40m to 50m	Mtr.	804.69	500	4,02,345.00
2	Drilling NX size through Hard Rock using TC bit/ diamond bit / Impregnated diamond bit upto 40m depth.		-		
i)	0m to 10m	Mtr.	1,630.61	40	65,224.40
ii)	10m to 20m	Mtr.	1,752.31	40	70,092.40
iii)	20m to 30m	Mtr.	2,003.94	40	80,157.60
iv)	30m to 40m	Mtr.	2,255.14	40	90,205.60
v)	40m to 50m	Mtr.	2,255.14	40	90,205.60
3	Collecting undisturbed soil samples in 100mm dia 450mm long thin walled tube sampler at every 1.5m interval or as directed by the engineer, from boreholes including provisions of air tight containers for packing and labelling incl. transportation the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS 2132.	No.	1,303.62	2050	26,72,421.00

<b>Bill of Quantity (BOQ)</b>					
<b>BILL OF QUANTITIES</b>					
<b>Item</b>	<b>Description</b>	<b>Item Unit</b>	<b>Unit Rate (Rs.)</b>	<b>Total Quantity</b>	<b>Total Amount</b>
4	Conducting standard penetration tests as per IS:2131-1981 at 1.5 M interval or as directed by the engineer and collecting the disturbed sample. Packaging and labeling the same.	No.	251.63	5798	14,58,950.74
5	Conducting Field In situ Vane shear test for soil as per IS 4434 at required strata or as directed by engineer	No.	2,821.63	40	1,12,865.20
6	Collection of Water Samples at intervals as decided by the engineer	No.	286.71	256	73,397.76
7	Conducting Electrical Resistivity Tests (ERT) as per latest codes to investigate upto 50 m depth.	No.	6,496.00	22	1,42,912.00
8	In situ Permeability test at every 5m depth or as decided by the Engineer.		-		
	(i) Soil	No.	692.96	256	1,77,397.76
	(ii) Rock (Double packer)	No.	692.96	21	14,552.16
<b>Total Schedule A</b>					<b>1,18,55,595.42</b>
<b>Schedule -B Laboratory Test</b>					
<b>B1</b>	<b>Laboratory tests for soil samples</b>		-		
1	Grain size Analysis without Hydrometer (Sieve Analysis)	No.	54.65	7848	4,28,893.20
2	Hydrometer analysis including Grain size analysis	No.	89.81	3924	3,52,414.44
3	Bulk density, dry density and moisture content on UD samples	No.	45.79	3924	1,79,679.96
4	Specific gravity of soil	No.	45.20	785	35,472.96

<b>Bill of Quantity (BOQ)</b>					
<b>BILL OF QUANTITIES</b>					
<b>Item</b>	<b>Description</b>	<b>Item Unit</b>	<b>Unit Rate (Rs.)</b>	<b>Total Quantity</b>	<b>Total Amount</b>
5	Conducting Chemical analysis to determine contents of sulphatest,Sulphitest, chlorides, pH value and organic matter contents on		-		
	(i) Soil Samples	No.	119.64	310	37,088.40
	(ii) Water Samples	No.	150.66	216	32,542.56
6	Atterbergs limits	No.	72.38	7848	5,68,038.24
7	Shrinkage Limit	No.	54.64	785	42,892.40
8	Free Swelling Index	No.	54.65	674	36,834.10
9	Swell Pressure test	No.	88.63	673	59,647.99
10	Direct shear testt, Box shear testt	No.	98.96	2967	2,93,614.32
11	Triaxial compressive strength testt giving full testt results including mohr circle, stress - strain curve, etc.		-		
	(a) Un-consolidated undrained testt (UU).	No.	221.87	539	1,19,587.93
	(b) Consolidated Undrained testt (CU) on clay samples giving relevant information as per IS-2720-XV-1986	No.	443.12	539	2,38,841.68
12	Unconfined compressive strength testt on clay soil samples as per IS:2720 - X -1973 for each BH.	No.	95.12	539	51,269.68
13	Consolidation testt by Odeometer	No.	101.92	256	26,091.52
<b>B2</b>	<b>Laboratory tests on Rock samples</b>		-		

<b>Bill of Quantity (BOQ)</b>					
<b>BILL OF QUANTITIES</b>					
<b>Item</b>	<b>Description</b>	<b>Item Unit</b>	<b>Unit Rate (Rs.)</b>	<b>Total Quantity</b>	<b>Total Amount</b>
1	Density testt & Specific Gravity testt	No.	68.53	135	9,251.55
2	Water Absorption & Porosity testt	No.	17.13	135	2,312.55
3	Cerchar Hardness index testt on rock samples	No.	342.97	27	9,260.19
4	Cerchar Abrasivity Index testt on Rock samples	No.	128.80	48	6,182.40
5	Unconfined compressive strength testt on saturated (7 Days) Rock samples	No.	51.40	67	3,443.80
6	Point Load index testt on rock samples	No.	343.27	67	22,999.09
7	Modulus of Elasticity testt	No.	1,029.51	67	68,977.17
8	Petrographic analysis	No.	2,363.30	27	63,809.10
<b>Total Schedule B</b>					<b>2689154.27</b>
<b>Schedule C - Provisional Sum</b>					
-					
C	Any other items as per Road & Building Dept.- Gujarat Scheduled of Rates - latest as corrected upto the date of opening of tenders, likely to be operated which are not covered under above items.	LS	1,11,132.00	1	<b>1,11,132.00</b>
<b>Schedule D - Preparation and Submission of Report</b>					
D*	Preparation and submission of Report (one Draft copy and four originals) with Colour photographs of samples (soft and hard copy) giving recommendations for type of foundation, analysis of bore logs & tests results along with SBC values and calculations in approved format for the alignment including stations in four parts.	-	-	-	-
<b>Total for Geo-tech Work</b>					<b>14655881.69</b>

Rates are Exclusive GST.

\* The payments towards Schedule A, B, C shall be made at 95% of the rates of the respective items progressively for the executed quantities. The balance 5% of payment (reserved for schedule D) shall be made after submission of report for each part of the alignment in his scope.



**Annexure – 2, DETAILS OF TAXES AND DUTIES**  
**INR: Indian Rupees (Tax Estimate)**

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)			
	Amou nt on which tax/ duty levied	Rate (%)	Amo unt (INR )	Amou nt on which tax/ duty levied	Rate (%)	Amount (INR)	Rate (%)	Amount on which tax/ duty levied	Amou nt (INR)	Amount on which tax/ duty levied	Rate (%)	Amount (INR)	Amount on which tax/ duty levied	Rate (%)	Amou nt (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.

<b>APPENDIX - 13A</b>			
<b>PROFORMA FOR STATEMENT OF MINOR DEVIATIONS</b>			
<b>(Refer C26 of ITT)</b>			
1 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 Annexure 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 Deviations'. 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.			
<b>Signature of authorized signatory on behalf of tenderer</b>			