

HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

(A Joint Venture Govt. of Haryana and Ministry of Railways)

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Tender No.: HARC/HRIDC/GGN/CGT/2023/GT/01

Date: 27.05.2023

Reference: Notice Inviting Tender (NIT) dated 11.05.2023

CORRIGENDUM NO. 2

Name of Work: Geotechnical Investigation, Preparation of Geotechnical Report for Designing of Foundations for HARC Viaduct between Sohana & Dhulawat Stations of Haryana Orbital Rail Corridor (HARC) Project in the State of Haryana.

S. No.	Tender Document Part / Section/ Clause No.	Description of Existing Clause	Modified Description of Existing Clause
1.	Corrigendum No 1, S .No.3, Financial Tender, Bill of Quantities (BOQ)	The existing “Schedule A - Geo Technical Investigation Works” is replaced with “ <i>Schedule A - Geo Technical Investigation Works/R1</i> ” and is attached as Attachment 1 of this Corrigendum No.1	The existing “Schedule A - Geo Technical Investigation Works/R1” is replaced with “ <i>Schedule A - Geo Technical Investigation Works/R2</i> ” and is attached as Attachment 1 of this Corrigendum No.2

Tender No. HORC/HRIDC/GGN/2023/GT/01

Attachment 1 to Corrigendum No. 2

Financial Tender Bill of Quantities/R2

Schedule A - Geo Technical Investigation Works/R2”

Bill of Quantities (BOQ)/R2

NAME OF WORK: Geotechnical Investigation, Preparation of Geotechnical Report for Designing of Foundations for HORC Viaduct between Sohana & Dhulawat Stations of Haryana Orbital Rail Corridor (HORC) Project in the State Of Haryana.

Schedule A - Geo Technical Investigation Works/R2					
Item No.	Item of Work	Unit	Quantity	Rate (INR)	Amount (INR)
1	Survey of all boreholes including plotting of co - ordinate (X, Y) by RTK Method on alignment plan and Z by digital level to mark borehole locations. Contractor has to conduct survey work by his equipment, survey instruments. Reference to be taken from the established GPS control points and reduced level benchmark intimated by HRIDC.	Per route Km	4	1,241.53	4,966.12
2	Exploratory Drilling of Bore holes down to required depth, drilling of 150mm diameter boreholes in all types of soil except hard rock and large boulders (boulder core more than 30 cm), including refiling and reinstating surface, and disposing off surplus material including use of mechanical/hydraulic rigs inclusive of calyx with power operated wrenches as wells as percussion/chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in dry area.			-	-
(a)	0m to 10m	Per Meter	1500	855.03	12,82,542.90
(b)	10m to 20m	Per Meter	1500	879.96	13,19,946.30
(c)	20m to 30m & above	Per Meter	3000	975.11	29,25,339.60
3	Drilling of NX size borehole (75mm dia.) in all types of hard rock and collection of rock core samples from boreholes and preserving in boxes.			-	-
(a)	0m to 10m	Per Meter	20	1,527.63	30,552.67
(b)	10m to 20m	Per Meter	100	1,551.26	1,55,125.68
(c)	20m to 30m	Per Meter	100	1,670.69	1,67,068.52
(d)	30m to 40m	Per Meter	50	1,879.36	93,967.84

Schedule A - Geo Technical Investigation Works/R2					
Item No.	Item of Work	Unit	Quantity	Rate (INR)	Amount (INR)
4	Conducting standard penetration test as per IS 2131 at approximate 3.0 m intervals in bore holes, as directed by the Engineer in charge.	Each	2550	137.82	3,51,445.30
5	Taking out 100mm dia & 450mm long undisturbed samples of soil from bore holes, including provision of airtight containers for packing and labelling incl. transporting the samples where necessary. Samples where necessary shall be collected as per IS 2720.	Each	1800	107.63	1,93,733.86
6	Taking out disturbed samples of soil from bore holes, labelling and transporting the samples to laboratory. Samples shall be collected as per IS:2720.	Each	600	135.90	81,539.41
7	Conducting laboratory Tests on collected soil samples as per relevant IS code			-	-
(a)	Sieve analysis and hydrometer analysis	Each	3000	507.24	15,21,727.80
(b)	Liquid, plastic and shrinkage limits and determination of Free Swell Index.	Each	3000	661.45	19,84,348.80
(c)	Specific gravity of soil	Each	900	416.69	3,75,018.30
(d)	Natural density	Each	1800	203.42	3,66,159.60
(e)	Moisture content & dry density	Each	1800	487.56	8,77,601.88
(f)	Unconfined compression test, Box shear test for sand or Triaxial shear tests for clay (depending on the type of soil and field conditions on undisturbed or remoulded samples)	Each	800	1,502.04	12,01,633.44
8	Conducting laboratory Tests on collected rock samples as per relevant IS code			-	-
(a)	Density Test	Each	25	617.48	15,437.11
(b)	Water absorption and porosity	Each	25	617.48	15,437.11
(c)	Hardness Test	Each	25	617.48	15,437.11
(d)	Unconfined compression test	Each	25	617.48	15,437.11
(e)	Point load test	Each	25	617.48	15,437.11
(f)	Modulus of elasticity test and determination of Poissons Ratio	Each	25	4,038.25	1,00,956.37
(g)	Abrasion test	Each	25	3,325.62	83,140.54
9	Additional Tests			-	-
(a)	Consolidation test	Each	100	1,696.28	1,69,627.70

Schedule A - Geo Technical Investigation Works/R2					
Item No.	Item of Work	Unit	Quantity	Rate (INR)	Amount (INR)
(b)	Chemical analysis of soil (sulphate, chloride, PH value)	Each	8	1,634.59	13,076.75
(c)	Collection of water samples at required intervals	Each	4	82.03	328.10
(d)	Chemical analysis of water (sulphate, chloride, PH value)	Each	4	1,362.27	5,449.08
10	Conducting Plate Load test (PLT) in various locations as per IS 1888 & specifications and as directed by the engineer-in-charge, plotting load intensity verses settlement curve, complete test in all respect.	Each	1	19,561.32	19,561.32
11	Preparation of Report and Submission in soft copy and 3 hard copies	LS	1	65,620.00	65,620.00
Total Amount (Including GST)					1,34,67,663.42

Total Estimated amount of Schedule A - Geo Technical Investigation Works/R2: INR 1,34,67,663.42

Note: Tenderer shall quote single percentage (%) Excess (+) or Less (-) on the **Estimated Amount for Schedule 'A'** at the prescribed place in the Bill of Quantities (BOQ)/R1 (MS-Excel file) revised vide Corrigendum No.1.

Bill of Quantities

(Please refer MS Excel Sheet for quoting rates uploaded on eProcurement portal)

Item Rate BoQ

Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Ltd

Name of Work: Geotechnical Investigation, Preparation of Geotechnical Report for designing of foundations for HORC Viaduct between Sohana & Dhulawat stations of Haryana Orbital (HORC) Project in the State of Haryana

Contract No: HORC/HRIDC/GGN/CGT/2023/GT/01

Name of the Bidder/
Bidding Firm /
Company :

Bill of Quantities
(NATIONAL COMPETITIVE TENDERING - RATES ARE TO BE ENTERED IN INR ONLY)
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bid is liable to be rejected for this tender. Tenderers are allowed to enter the Tenderer Name and Values only)

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Rate	Excess(+)/ Less(-)	PERCENTAGE RATE (%) to be entered by the Bidder	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	Schedule 'A': Geotechnical Investigation Works	Item1			1,34,67,583.42	Select		-	INR Zero Only
Total in Figures								-	INR Zero Only
Quoted Rate in Words									INR Zero Only