

Name of work :- Construction of Khamnath Bridge in place of existing damaged arch bridge on River Ghee on Khambhalliya Porbandar Road in Khambhaliya Nagar Palika Limit on new alignment.

TEST SCHEDULE

Sr. No.	Description of Item.	Materials to be tested	Name of Laboratory Test	Test required	Total Nos. of Tests	Remars
1	2	3	4	5	6	7
1	Earthwork for embankemnt	Borrow material	a) Sand Content b) Plasticity test c) Density test d) Moisture content test	Two test per 8000 Cum. Of soil		
2	GSB GR-II	C.S. Metal 45 to 63mm, 45 to 90mm size and down grade .	a) Aggregate Impact value b) Flakiness Index c) Gradation d) Abrasion e) Stripping Value f) Water absorption g) Crushing strength h) Impact	upto 100 cum 101 to 500 cum. 501 to 1500 cum. 1501 to 5000 cum. 5001 & above one additional test per work Minimum 1 test for each source of supply	1-test 3-test 5-test 7-test	
3	All Items	Water	(1) Potability (2) Salinity (3) Chemical Analysis	1 test for each Source of supply per season	1 No. or more as required	
4	All Items	Cement	(1) Consistancy Test (2) Setting time (3) Comp. strength (4) Soundness (5) Specific gravity (6) Chemical analysis (7) Fineness Test	up to 50 MT - 1 test 50 to 100MT - 2 test 100 to 200MT - 3 test 200 to 300MT - 4 test 300 to 500MT - 5 test 500 to 800MT - 6 test 800 to 1300MT - 7 test	As per material receipt on site one sample (15 Kg.) from 20 bags in consignment of 50 MT or change of brand /	

1	2	3	4	5	6	7
5	Sand for all items pertaining to sand	Sand	(1) Fineness Modulus (2) Specific gravity (3) Clay and Fine silt content (4) Water absorption (5) Abbtiation test	1 Test / Working season or change of river / source and per 150 Cum.	As required during execution of work	
6	T.M.T. Steel Bar	TMT Steel	1) Tensile strength 2) Elongation 3) Bend and Rebend Test 4) Yield Stress	One test per 40 MT. of each category supplied on site & change of brand minimum one test for each consignment and every categories	As required during execution	As per condition of materials received on site.
7	Crushed Metal for all Item pertaining for C.S. Metal	C.S. Metal 20 MM Nominal size 12 to 20mm 10 to 12mm 6 to 10mm 4.75 to 6mm	(1) Specific gravity (2) Water absorption (3) Flakiness Index (4) Impact value (5) Abrasion test (6) Gradation test (7) Crushing Strength (8) Soundness Test	1 Test for working season for R.C.C. Work and change of quarry per 150 Cum.	1 No. or More	
8	Stone	Rubble	(1) Water absorption	1 Test for change for Each source per 150 Cum.	1 No. or More	

1	2	3	4	5	6	7
9	C.C. M-150 C.C. M-200 C.C. M-350 C.C. M-400 C.C. M-450 (Cement Concrete)	C.C. Cube	(1) Compressive strength @ 7 and 28 days	Sample of cubes for concrete done 1 to 5 Cum 6 to 15 Cum 16 to 30 Cum 31 to 50 Cum 51 to onward	1 Sample 2 Sample 3 Sample 4 Sample 5 Sample and one additional sample for 50 cum and part there of.	A sample contain 6 Nos. of CC cubes i.e. 3 Nos. for 7 days and 3 Nos. for 28 days.
10	Elastomeric Bearing	Elastomeric Bearing		Manufacturer certificate		
11	Epoxy Coating	Epoxy Coating		Manufacturer certificate		
12	Pre-cast Rubber Dye inter locking concrete paver block	Paver block	1. Compressive strength 2. Dimension test	1 Test for Approval for each lot supplied	Minimum 1 Test	
13	Pre-cast concrete kerb	Kerb stone	1. Compressive strength 2. Dimension test	1 Test for Approval for each lot supplied	Minimum 1 Test	
14	Thermoplast road Marking	Thermoplast road Marking	(RL) Retorreflectivity (mcd/m ² /1ux) Proportion of constituents of making material, skid resistance	05 Readings for every 5.00 KM.	As per norms	

Note:- One Percent of estimated amount put to tender will be recovered from the contractor's bill for testing charges. The Testing material shall be provided by the contractor at free of cost on laboratory site.

Signature of Contractor

**Executive Engineer
Devbhoomi Dwarka R & B Division
Khambhaliya**