

**NAME OF WORK : CONSTRUCTION OF D TYPE -01 UNIT AT LALPUR DIST: JAMNAGAR**

**:MATERIAL TEST SCHEDULE :**

Sr. No	Description of Item No.	Materials to be tested	Name of Laboratory Test	Frequency of tests	Total No. of Test	Remarks
1	Water use for all Item	Water	Chemical analysis Portability Salinity	1 Test for each source of supply per season	1 or More as required	
2	Cement use for All item	Cement	(a) Consistency (b) Setting time (c) Compressive Strength, (d) Soundness (e) Specific Gravity (f) Chemical Analysis (g) Fineness Test	Upto 50 M.T. 1 Test 50 to 100 M.T. 2 Test 100 to 200 M.T. 3 Test 200 to 300 M.T. 4 Test 300 to 500 M..T. 5 Test 500 to 800 M.T. 6 Test 800 to 1300 M.T. 7 Test	As per material receipt on site. Minimum One Test for Consignment of Less than 50 M.T.	As per material receipt on site one sample (15 Kg.) From 20 bags in consignment of 50 MT) or change of brand manufacture.
3	Sand For All items pertaining to sand	Sand	(a) Fineness Modular (b) Specific gravity (c) Silt Content (d) Water absorption (e) Gradation Test	1 Test / Working season or change or river / source per 150 Cum.	1 or More as required	
4	Crushed Metal for all item pertaining for C.S. Metal	C. S. Metal 12 to 20mm 10 to 12mm 6 to 10mm 40mm nominal size	(a) Specific gravity (b) Water absorption (c) Flakiness Index (d) Impact Value (e) Abrasion test (f) Abrasion test (g) Gradation test (h) Crushing Strength (i) Soundness test	1 Test for working season for C.C. or R.C.C. work and change of quarry per 150 Cum	1 or More as required	

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5.	C.C. M-250 C.C. M-200 C.C. M-150 C.C. 1:2:4	C.C. cube	(1) Compressive strength @ 7 and 28 days	Sample of cubes for concrete done 1 to 5 Cum      1 Sample 6 to 15 Cum      2 Sample 16 to 30 Cum    3 Sample 31 to 50 Cum    4 Sample 51 to on ward   5 Sample and one additional for 50 Cum	As Required	A Sample Contain 6.00 Nos of Cubes
6	Bricks	Common Burnt clay Building bricks	1) Compressive Strength 2) Water Absorption 3) Dimension and Tolerance test 4) efflorescence	1 Sample per 50000 Bricks and change of Manufacturer .	As per Material received on site	
7	T.M.T. Bar	T.M.T. Bar 500D	(1) Tensile Strength (2) Elongation (3) Bend and Rebend Test (4) Yield Strees (5) Dimension Test	One test per 40 M.T. of each category supplied on site and change of brand minimum one test for each consignment and every categories	As required	
8	T.W. Door Shutter	Teak Wood	(1) Moisture Content (2) Density Test (3) Identification Test	One Test each lot supply	1 No. or More	
9	Crushed Metal	C.S. Metal 45 to 90 and 45 to 63mm size.	(1) Gradation (2) Water absorption (3) Impact Value (4) Absorption (5) Specific Gravity (6) Soundness (7) Flakiness	One Test per season upto 100 CuMt              1 Test 101 to 500 cuMT      3 Test 501 to 1500            5 Test 1501 to 5000      7 Test	As required	
10	Murrum	Murrum	(1) Atterburgs Limit (2) P.I. Valve	1 test per 250 Cum	As required	

Sr. No	Description of Item No.	Materials to be tested	Name of Laboratory Test	Frequency of tests	Total No. of Test	Remarks
11	Paving Block Precast Concrete Kerb stone		(i) Dimension (ii) Compressive Strength	1 Test For a lot supplied.	1 No. or more	
12	Earthwork for embankment	Borrow material	a) Sand Content b) Plasticity test c) Density Test d) Moisture content test e)	Two test per 8000 Cum. Of soil Two test per 8000 Cum. Of soil Two test per 8000 Cum. Of soil Two test per 8000 Cum. Of soil		
13	Vitrified tiles		(i) Water absorption (ii) Transverse Strength (iii) Abrasion Value (iv) Size tolerances a) Abrasion b) Stripping value c) Water absorption d) Crushing strength	1/2000 tiles (18 tiles for sample)  Minimum 1 test one for each source of supply.	1 No. or more	

**NOTE:** Tests as may be directed by Engineer- in - charge irrespective of provisions shown above shall have to be got conducted.

The testing charges to be paid to GERI shall be born by the Govt. and 1% of Estimated amount will be recovered from the bills of contractor towards testing charges.

The Testing Material shall be supplied by Contractor on at Laboratory site.

Deputy Executive Engineer  
Jamjodhpur (R&B) Sub-Division  
Jamnagar.

Executive Engineer  
Jamnagar (R&B) Division  
Jamnagar.