

Name of Work	Construction of Minor Bridge at Pada Approach Road (VR) at ch 4/00 to 4/200,Ta:Mangrol,Dist:Surat
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<u>SCHEDULE FOR TESTING OF MATERIALS</u>

For ensuring quality control and workmanship, various tests prescribed below for materials shall be taken at periodical intervals as stipulated below.

The materials shall be a got tested at Government Laboratory (R & B) or field Laboratory of GERI (R & B) for which 1% of the estimated amount put to Tender shall be recovered from the contractor from the R.A. bills and final bills at the testing charges shall be paid to the GERI by the Government. However if the crarges increase over 1% no excess recovery shall be made form the contractor as per resolution of B & C Department dated 10th, May 1985 vide TNC/1085 (4) s.

Item No. as per Schedule	Brief Description of materials to be tested.	Qty. of Materials	Prescription of test which shall be carried out	Frequency @ which test shall be carried out		Total Nos of test to be taken
1	2	3	4	5		6
1	25 to 90 H.B.Metal	510.86	Gradation test Impact Value Flakiness Index of	1 to 100 - cum. 100 to 500 - cum. 500 to 1500 - cum. 1500 to 5000 - cum.	1 Test 3 Test 5 Test 7 Test	3
	40 to 63 H.B.Metal		Gradation test Impact Value Flakiness Index of	1 to 100 - cum. 100 to 500 - cum. 500 to 1500 - cum. 1500 to 5000 - cum.	1 Test 3 Test 5 Test 7 Test	
	40 to 50 M.C.Metal		Gradation test Impact Value Flakiness Index of	1 to 100 - cum. 100 to 500 - cum. 500 to 1500 - cum. 1500 to 5000 - cum.	1 Test 3 Test 5 Test 7 Test	
	25 to 50 M.C..Metal	358.40	Gradation test Impact Value Flakiness Index of	1 to 100 - cum. 100 to 500 - cum. 500 to 1500 - cum. 1500 to 5000 - cum.	1 Test 3 Test 5 Test 7 Test	5
	Kapchi	460.80	Gradation test Impact Value Flakiness Index of	1 to 100 - cum. 100 to 500 - cum. 500 to 1500 - cum. 1500 to 5000 - cum.	1 Test 3 Test 5 Test 7 Test	7

Item No. as per Schedule	Brief Description of materials to be tested.	Qty. of Materials	Prescription of test which shall be carried out	Frequency @ which test shall be carried out		Total Nos of test to be taken
1	2	3	4	5		6
2	Grit	80.20	Stripping Value	1 to 100 - cum. 100 to 500 - cum. 500 to 1500 - cum. 1500 to 5000 - cum.	1 Test 3 Test 5 Test 7 Test	5
3	Marrum	884.41	P.I.Value	1 Test / 50 per cum		-
4	Sand Quarry Spaul CBR-1 test per work	2084.76	Silt content Gradation	1 Test per Work 1 Test / 200 per cum		10
5	Asphalt	10.80	Penetration Test as per I.S. 1203	No. of Tanker	Test	1
				1 to 10	1	
				11 to 20	2	
				21 to 50	3	
				51 to 100	4	
				Remaining every 50 tankar	1	
			Ductility Test	As per I.S. 1208		
	Specification Gravity test	As per I.S. 1202				
	Softening point test	As per I.S. 1204				
	Viscosity test	As per I.S. 1206				
6	Tack Coat	2.20	Binder Temperature for application	Irregular close in intervals		2
			Rate of spread of Binder.	2 Test / Day.		
7	Carpet & Seal Coat. Mix		Grading	One Test on Individual		
			Temperature of binder in Boilor aggregates in the dryer and mix at the time of laying and rolling. (Binder content vide 45/MD. 2172)	Constituents and mixed aggregates from the dryer for each 100 tonnes of mix subject to minimum of Two tests per plant per day.		
				One Test for each 100 tones of mix subjects to minimum of two per Day.		
			Rate of Spreaded mix materials	Regular control through checks on layer thickness.		

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1	2	3	4	5		6
8	Bricks	0.00	Water absorption Efflorence Size Compressive Strength	1 test @ 50,000 Bricks		0
9	Cement	1001.000	Consistency Setting time Compressive Strength.	Up to 50 T 100 T 200 T 300 T 500 T 800 T 1300 T	1 Test 2 Test 3 Test 4 Test 5 Test 6 Test 7 Test	8
				and 8 testd for large consingment.		
10	Steel	211.000	Tensile Strength Yiels Stress Elongation Size	1 Test / 40 Tonnes / per category		5

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1	2	3	4	5		6
11	C.C.Cube 1:2:4	M 15 M 20 M 25 M 30 M 35 M 40 M45/50	Compressive Strength. (I.S 516 - 1959)	Quantity in CMT.	No. of Test	<i>5 for Each Grade</i>
				1 to 5	1.00	
				6 to 15	2.00	
				16 to 30	3.00	
				31 to 50	4.00	
				51 & Above	4+1	
				For each additional 50 m ³ or part thereof		

The Number of test will be as per Manual of Quality Control or Latest Govt. G.R / Circulars will be Final.

The contractor shall have to pay 1% of the estimate cost put to tender towards all testing of materials & the same shall be deducted from their bills for the work. The testing of various materials shall be carried out in GERI and result received shall be binding to all i.e. the contractor and Government.

Testing charges of GERI shall be born by Govt. No refund be made not extra charges over 1% shall be recoverable from the contractor.

Signature of Contractor.

**Deputy Executive Engineer,
Pan. (R & B) Division
Mangrol**

**Executive Engineer
Pan. (R & B) Division
Surat**