

## Kachchh Panchayat R&B Division Bhuj - Kachchh

**NAME OF WORK:-CONSTRUCTION OF SH TO TEJARA GAM VANKOL MANDIR ROAD(MMGSY 2025-26, NON PLAN VR)**

### Schedule for Materials Testing

Item No.	Brief Description of material to be tested	Prescription of Test which shall be carried out	Frequency @ which test shall be carried out	Qty of Material	Unit	No of Tests Req'd.
1	M.C. Metal 45 to 90 mm size	1 Water Absorption	One test per 3000cms	594.00		1
		2 Impact Value	1 to 100 Cum 1			5
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
2	M.C. Metal 45 to 63 mm size	1 Water Absorption	One test per 3000cms	539.00	Cmt.	1
		2 Impact Value	1 to 100 Cum 1			5
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
3-A	Screening Materials	1 Water Absorption	One test per 3000cms	225.06	Cmt.	1
		2 Impact Value	1 to 100 Cum 1			3
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
4	Kapachi-For B.T.Work	1 Water Absorption	One test per 3000cms	429.00	Cmt.	1
		2 Impact Value	1 to 100 Cum 1			3
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
5	Grit-For B.T.Work	1 Water Absorption	One test per 3000cms	30.00	Cmt.	1
		2 Impact Value	1 to 100 Cum 1			
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
6	Murum/Stone Dust	(1) Aterberg Limit	One test per 50 Cmt.	90.64	Cmt.	1
7	Asphalt		Tanker Test	21.72	MT	As per Norms
		1 penetration	5 to 10 -1			
		2 Ductility	11 to 20 -2			
		3 Sp Gravity	21 to 50 -3			
		4 Softening Point	51 to 100 -4			
		5 Viscosity	Additional -1			
8	Tack Coat	1.Binder Temp.	Two Test Per Day		Smt.	As per Norms for Asphaltic Work
		2.Rate of Spread of Binder				

Item No.	Brief Description of material to be tested	Prescription of Test which shall be carried out	Frequency @ which test shall be carried out	Qty of Material	Unit	No of Tests Req'd.
9	BUSG/ B.M./ Sealcoat	1.Gradation	One Teat per 100 M.T. but Minimum 2 teat per day	650.00	MT	As per Norms for Asphaltic Work
		2.Temp.of Binder	-----Do-----			
		3.Rate of Spread of materials	Regular control through check on thickness of layer			
10	Cement	1 Consistency	Up to 50 M ton      1 Test	193.07	MT	3
		2 Setting time	50 To 100 M ton      2 Test			
		3 Fineness	100 to 200 M ton      3 Test			
		4 Chemical Analysis	200 to 300 M ton      4 Test			
		5 Soundness	300 to 500 M ton      5 Test			
			500 to 800 M ton      6 Teast			
			800 to 1300 M ton      7 Teast			
11	Steel	1 Tensile Strength	One test per 40 M ton per Category		MT	1-Test per each Category/ 40 M.T.
	Mild Steel	2.Yield Stress				
		3 Elongation				
		4 Size				
		5.Chemical Analysis Test				
11-A	Steel	1 Tensile Strength	One test per 40 M ton per Category	7.04	MT	1-Test per each Category/ 40 M.T.
	H.Y.S.D.	2.Yield Stress				
		3 Elongation				
		4 Size				
		5.Chemical Analysis Test				
12	C.C. Cube	1 Compressive strength	Qty (cmt) No.s of Test		Cmt.	
	M100		Up to 5      1			
	M150 Ordinary		6 to 15      2	210.20		8
	M200 Ordinary		16 to 30      3	296.00		9
	M250 Controlled		31 to 50      4			
	M300 Controlled		51 and above - 1 Test / 50 cmt.			
	M400 Controlled					
13	Sand	1 Silt content	One test per work		Cmt.	1
		2.Gradation				
14	G.S.B.-Grade-I	1 Water Absorption	One test per 3000cms		Cmt.	
		2 Impact Value	1 to 100 Cum      1			
		3 Flakiness / elongation Index	100 to 500 Cum      3			
		4 Gradation	500 to 1500 Cum      5 1500 to 5000 Cum      7			
15	Earthwork	1.Sand Content	2-Test per 3000 Cmt.	2009.00	Cmt.	2
		2.Plasticity Test	2-Test per 3000 Cmt.			2

Item No.	Brief Description of material to be tested	Prescription of Test which shall be carried out	Frequency @ which test shall be carried out	Qty of Material	Unit	No of Tests Reqd.
		3.Density Tst	2-Test per 3000 Cmt.			2
		4.Moisture Content Test/ FDD/ MDD	1-Test per 250 Cmt.			9
		5.C.B.R.	1-Test per 3000 Cmt.			1
16	R.C.C.Pipe	Factory Test	I.S.458 (900mm dia)	75.00	Rmt.	One for each Dia
17	Cement Concrete Work for Road	1.Dry Lean Cement Concrete Sub Base	Para 903.4 of specification		Cmt.	
		2.Un-reinforced,dowel jointed,plain cement concrete pavement	As per Para 903.5.2.4 summary of control Tests of specification		Cmt.	
18	Retro reflective	Co-efficient of retro	Class B Type 4 High Intensity		No.	1
	Sheeting for signage	Reflection	Grade			
19	Hot Applied Thermoplastic Road Marking	On Site testing with Refletometer	Retro Reflectivity		Smt.	1
		Laboratory Testing	Bibder			
			Glass beads			
			Titanium Dioxide			
			Calcium carbonate and Inert filler			
		On site Testing	Skid Resistance			
20	Road Struds/Cat eyes/RPM ( Raised Pavement Marker)	Laboratory Testing	Compressive Strength		No.	1
			Flexural Strength			
			Resistance to Lens cracking Les Impact Strength			
			Coefficient of Luminous Intensity ASTM D4280			
21	Aggregate for C.C.Work	1 Water Absorption	One test per 3000cms	646.85	Cmt.	1
		2 Impact Value	1 to 100 Cum 1			5
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
22	Water		One test per Source			1

**Deputy Executive Engineer  
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