

**Kachchh Panchayat R&B Division Bhuj - Kachchh**

**NAME OF WORK:-RESURFACING OF PATRI BARAYA ROAD TA.MUNDRA (MMGSY/ V.R./ 7 -YEAR RESURFACING/ NORMAL/ 2025-26) P-5**

**Schedule for Materials Testing**

<b>Item No.</b>	<b>Brief Description of material to be tested</b>	<b>Prescription of Test which shall be carried out</b>	<b>Frequency @ which test shall be carried out</b>	<b>Qty of Material</b>	<b>Unit</b>	<b>No of Tests Req'd.</b>
1	M.C. Metal 45 to 90 mm size	1 Water Absorption	One test per 3000cms	875.00	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			
2	M.C. Metal 45 to 63 mm size	1 Water Absorption	One test per 3000cms	4006.00	Cmt.	2
		2 Impact Value	1 to 100 Cum 1			7
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
3	Quarry Spalls	1 Water Absorption	One test per 3000cms	1770.00	Cmt.	1
		2 Impact Value	1 to 100 Cum 1			7
		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	716.97	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			
4	Kapachi-For B.T.Work	1 Water Absorption	One test per 3000cms	4163.94	Cmt.	2
		2 Impact Value	1 to 100 Cum 1			7
		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	1139.82	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			
6	Murum/Stone Dust	(1) Aterberg Limit	One test per 50 Cmt.	390.48	Cmt.	8
7	Asphalt		Tanker Test	286.868	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	150154.64	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 Reqd.
9	BUSG/ B.M./ M.S.S.	1.Gradation	One Teat per 100 M.T. but Minimum 2 teat per day	8036.00	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	187.46	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	15.640	MT	1-Test per each Category/ 40 M.T.
	T.M.T. Fe 550D	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	1.70		1
	M150 Ordinary		6 to 15      2	34.20		17
	M200 Ordinary		16 to 30      3	312.00		10
	M250 Controlled		31 to 50      4			7
	M300 Controlled		51 and above - 1 Test / 50 cmt.	117.40		6
	M400 Controlled			22.80		3
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	1303.00	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			
15	Earthwork	1.Sand Content	2-Test per 3000 Cmt.	32012.00	Cmt.	22
		2.Plasticity Test	2-Test per 3000 Cmt.			22
		3.Density Tst	2-Test per 3000 Cmt.			22
		4.Moistute Content Test/ FDD/ MDD	1-Test per 250 Cmt.			128
		5.C.B.R.	1-Test per 3000 Cmt.			11
16	R.C.C.Pipe	Factory Test	I.S.458			One for each Dia

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.
17	Cement Concrete Work for Road	1.Dry Lean Cement Concrete Sub Base	Para 903.4 of specification	0.00	Cmt.	
		2.Un-reinforced,dowel jointed,plain cement concrete pavement	As per Para 903.5.2.4 summary of control Tests of specification	0.00	Cmt.	
18	Retro reflective	Co-efficient of retro	Class B Type 4 High Intensity	64.00	No.	3 Reading For 10 Boards for each colour
	Sheeting for signage	Reflection	Grade			
19	Hot Applied Thermoplastic Road Marking	On Site testing with Refletometer	Retro Reflectivity	2817.00	Smt.	5 Reading for every 5 Km.
		Laboratory Testing	Bibder			
			Glass beads			
			Titanium Dioxide			
			Calcium carbonate and Inert filler			
On site Testing	Skid Resistance	5 Reading for every 5 Km.				
20	Road Struds/Cat eyes/RPM ( Raised Pavement Marker)	Laboratory Testing	Compressive Strength	0.00	No.	1 Sample for each colour/ Brand/ Lot
			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	414.89	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			
22	Water		One test per Source			1

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