

Kachchh Panchayat R&B Division Bhuj - Kachchh

NAME OF WORK:-WORK OF CONSTRUCTING,WIDENING,STRENGTHENING AND RESURFACING VARIOUS IMPORTANT ROADS AND WHEN REQUIRED OR IN EMERGENCY UNDER KUTCH-BHUJ (PANCHAYAT) ANNUAL BASIS DIST.KUTCH

Schedule for Materials Testing

Ite m 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.
1	M.C. Metal 45 to 90 mm size	1 Water Absorption	One test per 3000cms	2956.00	Cmt.	5
		2 Impact Value	1 to 100 Cum 1			21
		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	7958.00	Cmt.	11
		2 Impact Value	1 to 100 Cum 1			35
		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	3210.50	Cmt.	6
		2 Impact Value	1 to 100 Cum 1			28
		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	0.00	Cmt.	3
		2 Impact Value	1 to 100 Cum 1			14
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
4	Kapachi	1 Water Absorption	One test per 3000cms	2956.00	Cmt.	16
		2 Impact Value	1 to 100 Cum 1			70
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
5	Grit	1 Water Absorption	One test per 3000cms	7958.00	Cmt.	4
		2 Impact Value	1 to 100 Cum 1			17
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
6	Murrum/Stone Dust	(1) Aterberg Limit	One test per 50 Cmt.	873.12	Cmt.	72
7	Asphalt		Tanker Test	508.997	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	8.47	Smt.	As per Norms for Asphaltic Work
		2.Rate of Spread of Binder				
9	Prime Coat	1.Binder Temp.	Two Test Per Day	22837.50	Smt.	As per Norms for Asphaltic Work

Ite m 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.
		2.Rate of Spread of Binder				work
10	BUSG/ B.M./ SEALCOAT/M.S.S.	1.Gradation	One Test per 100 M.T. but Minimum 2 test per day	84301.09	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			
11	Cement	1 Consistency	Up to 50 M ton 1 Test	258.01	MT	37
		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			
12	Steel	1 Tensile Strength	One test per 40 M ton per Category	56.719	MT	1-Test per each Category/ 40 M.T.
	T.M.T. Fe 500D	2.Yield Stress				
		3 Elongation				
		4 Size				
		5.Chemical Analysis Test				
13	C.C. Cube	1 Compressive strength	Qty (cmt) No.s of Test			
	M100		Up to 5 1	161.00		37
	M150 Ordinary		6 to 15 2	0.00		258
	M200 Ordinary		16 to 30 3	0.00	Cmt.	46
	M200 Controlled		31 to 50 4	0.00		
	M250 Controlled		51 and above - 1 Test / 50 cmt.	413.00		81
	M300 Controlled					
14	Sand	1 Silt content	One test per work		Cmt.	1
		2.Gradation				
15	G.S.B.-Grade-I	1 Water Absorption	One test per 3000cms	8297.91	Cmt.	14
		2 Impact Value	1 to 100 Cum 1			56
		3 Flakiness / elongation Index	100 to 500 Cum 3			
			500 to 1500 Cum 5			
		4 Gradation	1500 to 5000 Cum 7			
16	Earthwork	1.Sand Content	2-Test per 3000 Cmt.	36336.36	Cmt.	98
		2.Plasticity Test	2-Test per 3000 Cmt.			98
		3.Density Tst	2-Test per 3000 Cmt.			98
		4.Moistute Content Test/ FDD/ MDD	1-Test per 250 Cmt.			583
		5.C.B.R.	1-Test per 3000 Cmt.			49
17	R.C.C.Pipe	Factory Test	I.S.458	One for each Dia		3

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.
18	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.	
19	Retro reflective	Co-efficient of retro	Class B Type 4 High Intensity		No.	3 Reading For 10 Boards for each colour
	Sheeting for signage	Reflection	Grade			
20	Hot Applied Thermoplastic Road Marking	On Site testing with Refletometer	Retro Reflectivity		Smt.	5 Reading for every 5 Km.
		Laboratory Testing	Bibder			1 Sample for each colour
			Glass beads			
			Titanium Dioxide			
			Calcium carbonate and Inert filler			
		On site Testing	Skid Resistance			5 Reading for every 5 Km.
21	Road Struds/Cat eyes/RPM (Raised Pavement Marker)	Laboratory Testing	Compressive Strength		No.	1 Sample for each colour/ Brand/ Lot
			Flexural Strength			
			Resistance to Lens cracking Les Impact Strength			
			Coefficient of Luminous Intensity ASTM D4280			
22	Aggregate for C.C.Work	1 Water Absorption	One test per 3000cms		Cmt.	6
		2 Impact Value	1 to 100 Cum 1			28
		3 Flakiness / elongation Index	100 to 500 Cum 3			
		4 Gradation	500 to 1500 Cum 5 1500 to 5000 Cum 7			
23	Water		One test per Source			1

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