

Name of work :- Construction of Cat. E1- Bunglow for DDO at Palanpur Dist.Banasakantha

SCHEDULE FOR TESTING OF MATERIALS

Item No	Brief Description of Materials to be tested	Prescription of Test which shall be carried out	Frequency @ which test shall be carried out	Qty of Materials		Total No.of Test to be taken
1	GSB	(1) Water Absorption	One test per 3000 Cu.M.			0
				Cu.M.		
		(2) Impact Value	1 to 100 Cu.M. 1			
			100 to 500 Cu.M. 3			
			500 to 1500 Cu.M. 5			
			1500 to 5000 Cu.M. 7			
		(3) Flakiness Index and elongation index	As above			
		(4) Gradation	One Test per 100 Cu.M.			
2	45 to 90 mm size M.C. Metal	(1) Water Absorption	One test per 3000 Cu.M.			0
				Cu.M.		
		(2) Impact Value	1 to 100 Cu.M. 1			
			100 to 500 Cu.M. 3			
			500 to 1500 Cu.M. 5			
			1500 to 5000 Cu.M. 7			
		(3) Flakiness Index and elongation index	As above			
		(4) Gradation	One Test per 100 Cu.M.			
3	45 to 63 mm size M.C. Metal	(1) Water Absorption	As above	15.00		1
				Cu.M.		
		(2) Impact Value	As above			
		(3) Flakiness Index and elongation index	As above			
		(4) Gradation	As above			
4	Quarry Spalls	(1) Water Absorption	As above			0
		(2) Impact Value	As above	Cu.M.		
		(3) Flakiness Index and elongation index	As above			
		(4) Gradation	As above			
		CBR Value	1 Per work			
5	Screening Materials	(1) Water Absorption	As above			0
				Cu.M.		
		(2) Impact Value	As above			
		(3) Flakiness Index and elongation index	As above			
6	Metal	(4) Gradation	As above			0
		(1) Water Absorption	1 to 100 Cu.M. 1			
		(2) Impact Value	100 to 500 Cu.M. 3	Cu.M.		
		(3) Flakiness Index and elongation index	500 to 1500 Cu.M. 5			
			1500 to 5000 Cu.M. 7			
7	Kapachi	(4) Gradation				3
		(1) Water Absorption	As above	425.24		
		(2) Impact Value	As above			
		(3) Flakiness Index and elongation index	As above			
8	Gritt	(4) Gradation	As above			3
		(1) Water Absorption	As above	283.49		
		(2) Impact Value	As above			
		(3) Flakiness Index and elongation index	As above			

9	Murum / Stone dust	(1) Aterberg Limit	One test per 50 Cu.M.			Cu.M.	0
10	Asphalt		Tanker	Test			0
			1 test per Two tanker and addition		M.T.		
		(1) Penetration	1 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				
11	Tack Coat	(1) Binder Temp.	Two Test per day				As per
		(2) Rate of spread of Binder					norms
12	Carpet / B.M. / Seal coat	(1) Gradation	One test per 100 M.T. but Minimum 2 test per day			BUSG	As per norms
						Carpet	
						Seal Coat	
					M.T.		
		(2) Temp. of Binder	--do--				
		(3) Rate of spread of materials	Regular control through check on thickness of layer				
13	Bricks	(1) Water absorption	One test per 50000 bricks		96490.00		2
		(2) Size	--do--		No		
		(3) Compressive strength	--do--				
		(4) Efflorence	--do--				
14	Cement	(1) Consistency	Upto 50 M.T. : 1 Test		198.04 MT		3
		(2) Setting time	100 MT -2 Test	800 MT -6 Test			
		(3) Fineness	200 MT -3 Test	1300 MT -7 Test			
		(4) Chemical analysis	300 MT -4 Test	And 8 Test for Larger Consingiment			
		(5) Soundness	500 MT -5 Test				
15	Steel HYSD	(1) Tensile strength	One test per 40 M.T. Per category				2 per each category
	TMT	(2) Yield Stress			40.428	MT	
		(3) Elongation					
		(4) Size					
16	C.C. Cubes	(1) Compressive strength	Qty.				
	M100		One test per 5 Cu.M.			Cu.M.	
	M150		6 to 15	2	218.00	Cu.M.	8
	DLCC 1:3:6		16 to 30	3	37.00		4
	M 200		31 to 50	4	113.80	Cu.M.	6
	M 300		51 & above	4 + 1		Cu.M.	
	M 250				101.00	Cu.M.	6
	M 400					Cu.M.	
17	Sand	1 Gradation			421.12		
		2 Silt Content					
18	Retro Reflective Sheeting for signage	Co-efficient of retro reflection	Class B Type 4 High intensity Grade			No	3 Reading for 10 Boards for each Colour
19	Hot Applied Thermoplastic Road marking	on site	Retro Reflectivity			Smt	5 Reading for every 5 Km.
		Laboratory Testing	Binder	18.0 min			1 Sample
			Glass Beads	30-30			For each Colour
			Titanium Dioxide	10.0 Min			
			Calcium Carbonate and Inert Filler	42.0 max			
		on site	Skid Resistance				5 Reading for every 5 Km.

20	Road Studs/ Cat Eyes/ RPM	Laboratory Testing	Compressive Strength			No	One Sample For Each Colour/Brand/Lot
			Flexure Strength				
			Resistance to lens cracking Les Impact Strength				
			Coefficient of Luminous Intensity ASTM D4280				
21	Earth Work		Two test per 3000 Cu.M.	2308.30	Cu.M.	2	
22	Water	Chemical Analysis	One Test Per Each Source			As per norms	

**Signature of
contractor**

**Deputy Executive Engineer
R & B (Pan) Sub Division
Palanpur**

**Executive Engineer
R & B (Pan) Division
Palanpur**