

# KUTIYANA NAGARPALIKA

## KUTIYANA, DIST: PORBANDAR

**NAME OF WORK :- PATCHWORK, REPAIRING & RESURFACING OF ASPHALT ROAD, C.C. ROAD & PAVER BLOCK ROAD DUE TO DAMAGED BY HEAVY RAINS IN VARIOUS AREAS OF KUTIYANA, DIST. PORBANDAR**

<b>TEST REQUIRED</b>				
<b>Sr. No.</b>	<b>Materials to be tested</b>	<b>Name of laboratory test</b>	<b>Frequency of testing</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Water	Potability	1 test per each source of supply per every working season.	Or as required while execution or change of source.
		Salinity		
		Chemical analysis		
2	Sand	Fineness modules	1 test per each source of supply per every working season.	Or as required while execution or change of quarry.
		Specific gravity		
		Water absorption		
		Clay & Fine silt content		
		Gradation test		
		Pentography exclusiation		
		Soundness		
		Bulk Design		
3	Crushed Stone aggregate	Specific gravity	1 Test / 150 Cu.m	Or as required while execution or change of quarry.
		Soundness		
		Water Absorption		
		Impact Value		
		Gradation Test		
		Crushing Test		
		Abrasion Value		
		Flakniness		

4	H.B. Stone aggregate	Specific gravity	Upto 100 Cum. one Test	Or as required while execution or change of quarry.
		Impact Value		
		Flakiness		
		Abration Value		
		Crushing Test		
		Water Absorption		
5	Cement	Consistency	Upto 50 M.T. = 1 Sample 50 to 100 M.T. = 2 Sample 100 to 200 M.T. = 3 Sample 200 to 300 M.T. = 4 Sample 300 to 500 M.T. = 5 Sample 500 to 800 M.T. = 6 Sample 800 to 1300 M.T. = 7 Sample and 8 Sample for large consignment	As per receipt of cement, one sample of 15 Kg. from 20 bags in consignment of 50 M.T. shall be taken for testing. Minimum one sample for each consignment less than 50 M.T. of cement received.
		Initial & Final setting time		
		Compressive strength		
		Fineness		
		Soundness		
		Specific gravity		
		Chemical analysis		
		Compressive strength		
6	Steel	Elongation	One test per 20 M.T. for each categories & every lots supplied.	Or as required while execution
		Tensile Strength		
		Bend and rebend test		
		Yield Strength		
		Dimension Test		
7	C.C. Cubes (Ordinary & Controlled C.C.)	Compressive Strength for 7 & 28 days	1 to 5 Cum. = 1 Test	Or as required while execution
			6 to 15 Cum = 2 Test	
			16 to 30 Cum = 3 Test	
			31 to 50 Cum = 4 Test	
			51 & above 4 + 1 test each 50 Cum.	
8	White Stone Bela	Compressive strength	1 Sample every 5000 Nos or change of quarry	Or as required while execution
		Water absorption		
		Salt Efforence.		
		Dimension & Tollerance.		
9	Coursed Rubble Stone	Compressive strength	1 Sample every 5000 Nos or change of quarry	Or as required while execution
		Water absorption		
		Salt Efforence.		
		Dimension & Tollerance.		

10	Brick	Compressive strength	1 Sample every 5000 Nos or change of quarry	Or as required while execution
		Water absorption		
		Salt Efflorescence.		
		Dimension & Tolerance.		
		Consistency		
11	Filling in excavation soil	Compaction Test	Every 200 Sq.Mt. Area	Or as required while execution or change of quarry.
		Specific gravity		
		Water absorption		
		Clay & Fine silt content		
12	Murrum	Compaction Test	Every 200 Sq.Mt. Area	Or as required while execution or change of quarry.
		Specific gravity		
		Water absorption		
		Clay & Fine silt content		
13	Teak Wood	General future	One Sample Per Lot	Or as required while execution or change of quarry.
		Identification Gravity		
		Specific gravity		
		Moisture		
		Weight Hardness colour		
14	H.B. Metal	Gradation	One Sample / As Per 150 Cum Per frequency season	Or as required while execution or change of quarry.
		Water absorption		
		Flakiness index		
		Impact Value		
		abrasion Value		
		Soundness		
15	Paving Block M-200, 60mm thick	Compressive Strength	One Sample / As Per 500 Sqmt frequency	Or as required while execution or change of quarry.
16	Crushed Metal	Gradation	One Sample / As Per 150 Cum Per frequency season	Or as required while execution or change of quarry.
		Water absorption		
		Flakiness index		
		Impact Value		
		Abrasion Value		
		Soundness		

17	Emulsion Asphalt VG Grade	Penetration Test as per Is 1203	<b><u>No. of Tankers</u></b>	<b><u>Test</u></b>	Or as required while execution or change of quarry.
			1 to 10	1	
			1 to 20	2	
			21 to 50	3	
			51 to 100	4	
			Remaining Every 50 Tankers	1	
		Ductility Test	As Per IS 1208		
		Specific gravity Test	As Per IS 1202		
		Softening Point Test	As Per IS 1204		
		Viscosity Test	As Per IS 1206		

**Chief Officer**  
**KUTİYANA NAGARPALIKA**  
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