

Laboratory

Shreeji Multi-Tech Services, Plot No. 38, Survey No. 458, At & P.O. Agiyol, Tal. Himmatnagar, Dist. Sabarkantha, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

TC-6478

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Validity

03.11.2017 to 02.11.2019

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Coarse Aggregate	Grading of Aggregates	IS 2386(Part 1) 1963 (RA-2011)	Sieve Size 4.75 mm to 125 mm (0.1 to 100%)
		Specific Gravity	IS 2386(Part 3) 1963 (RA-2011)	2.5 to 3.0
		Water Absorption	IS 2386(Part 3) 1963 (RA-2011)	0.1% to 5%
		Flakiness index	IS 2386(Part 1) 1963 (RA-2011)	3% to 50%
		Elongation Index	IS 2386(Part 1) 1963 (RA-2011)	3% to 50%
		Impact Value	IS 2386(Part 4) 1963 (RA-2011)	5% to 50%
		Crushing Value	IS 2386(Part 4) 1963 (RA-2011)	5% to 50%
		Abrasion Value	IS 2386(Part 4) 1963 (RA-2011)	5% to 50%
2.	Fine Aggregate	Grading of Aggregates	IS 2386(Part 1) 1963 (RA-2011)	Sieve Size 10 mm to 0.150 mm (0.1 to 100%)
		Specific Gravity	IS 2386(Part 3) 1963 (RA-2011)	2.5 to 3.0
		Water Absorption	IS 2386(Part 3) 1963 (RA-2011)	0.1% to 5%
		Material Finer than 75 μ	IS 2386(Part 1) 1963 (RA-2011)	0.1% to 10%
3.	Bitumen	Penetration	IS 1203 – 1978 (RA 2009)	50 to 400 (1/10 mm)
		Ductility	IS 1208 – 1978 (RA 2009)	25 cm to 100 cm
		Softening Point	IS 1205 – 1978 (RA 2009)	40°C to 80°C
		Absolute Viscosity	IS 1206 Part 2– 1978 (RA 2009)	800 Poises to 1200 Poises

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		Kinematic Viscosity	IS 1206 Part 3– 1978 (RA 2009)	250 cSt to 400 cSt
		Specific Gravity	IS 1202 – 1978 (RA 2009)	0.8 to 1.0
II.	SOIL AND ROCK			
1.	Soil	Grain Size Analysis	IS 2720 (Part-4) 1985 (RA-2010)	75 mic. to 19mm passing (0.1% to 100%)
		Liquid Limit	IS 2720 (Part 5) 1985 (RA- 2010)	1% to 65%
		Plastic Limit	IS 2720 (Part 5) 1985 (RA- 2010)	1% to 45%
		Light Compaction	IS 2720 (Part 7) 1980 (RA- 2011)	OMC 5% to 20% MDD 1.4 g/cc to 2.3g/cc
		Heavy Compaction	IS 2720 (Part 8) 1980 (RA-2011)	OMC 6% to 20% MDD 1.6g/cc to 2.55g/cc
		California Bearing Ratio(CBR)	IS 2720 (Part 16) 1987 (RA-2011)	1% to 50%
		Unconfined Compression	IS 2720 (Part 10) 1987 (RA-2011)	0.01 kg/cm ² to 0.5 kg/cm ²
		Free Swell Index	IS 2720 (Part 40) 1977 (RA-2011)	5% to 200%
		Swelling Pressure	IS 2720 (Part 41) 1977 (RA-2011)	0.5 5 kg/cm ² to 5 kg/cm ²
		Specific Gravity	IS 2720 (Part 3) 1980 (RA-2011)	2.4 to 2.7
		Relative Density	IS 2720 (Part 14) 1983 (RA-2011)	1.4 g/cc to 2.2 g/cc