

Laboratory Bhavya Materials Testing Laboratory, A2-6, Ground Floor, Adinath Tower, N.H. 08, Tah. Bhim, Dist. Rajsamand, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7489

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Validity 29.06.2018 to 28.06.2020

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 MATERIAL			
1.	Coarse Aggregate	Grading (Sieve Analysis)	IS 2386 (Part 1): 1963 (RA 2016)	2.36 mm to 80 mm
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2016)	0.01 kg/l to 3 kg/l
		Los Angles Abrasion Value	IS 2386 (Part 4): 1963 (RA 2016)	1 % to 50 %
		Impact Value	IS 2386 (Part 4): 1963 (RA 2016)	1 % to 45 %
		Crushing Value	IS 2386 (Part 4): 1963 (RA 2016)	1 % to 45 %
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2016)	0.4 % to 2 %
		Specific gravity	IS 2386 (Part 3): 1963 (RA 2016)	2 to 4
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2016)	5 % to 50 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2016)	5 % to 50 %
		10 % Fine Value	IS 2386 (Part 4): 1963 (RA 2016)	5 kN to 300 kN
2.	Fine Aggregate	Grading (Sieve Analysis)	IS 2386 (Part 1): 1963 (RA 2016)	0.075 mm to 4.75 mm
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2016)	1 kg/l to 3 kg/l
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2016)	0.1 % to 4 %
		Specific gravity	IS 2386 (Part 3): 1963 (RA 2016)	2 to 4

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3.	Concrete Cubes & Cores	Compressive Strength	IS 516:1959 (RA 2013)	7.5 N/mm ² to 80 N/mm ²
4.	Burnt Clay Bricks/ Fly ash Bricks/ Fly ash Lime Bricks	Compressive Strength	IS 3495 (Part 1): 1992 (RA 2016)	2.8 N/mm ² to 30 N/mm ²
		Water Absorption	IS 3495 (Part 2): 1992 (RA 2016)	1 % to 30 %
5.	Precast Concrete Paver Block	Water Absorption	IS 15658: 2006 (RA 2017)	0.1 % to 20 %
		Compressive Strength	IS 15658: 2006 (RA 2017)	5 N/mm ² to 80 N/mm ²
6.	Bitumen	Ductility at 25 °C	IS 1208: 1978 (RA 2014)	10 cm to 100 cm
		Specific Gravity at 25 °C	IS 1208: 1978 (RA 2014)	0.7 to 1.4
		Penetration	IS 1203: 1978 (RA 2014)	30 to 90 1/10 th mm
		Softening Point	IS 1205: 1978 (RA 2014)	30 °C to 150 °C
7.	Bituminous Mix	Bitumen content % by weight of total mixture	IRC SP 11:2nd revision 1984, reprint 2012	1 % to 10 %
8.	Building Stone	Water Absorption	IS 1124:1974 (RA 2017)	0.1 % to 15 %
		Compressive Strength (72 hrs. Soaked 24 hrs. Oven Dry)	IS 1121 (Part 1): 2013 (RA 2017)	10 N/mm ² to 300 N/mm ²
II.	SOIL & ROCK			
1.	Soil	Specific Gravity	IS 2720 (Part 3 & Sec 2): 1980 (RA 2016)	1 to 4
		Sieve Analysis (Wet Method)	IS 2720 (Part 4): 1985 (RA 2015)	0.075 mm to 4.75 mm
		Liquid Limit	IS 2720 (Part 5): 1985 (RA 2015)	10 % to 80 %
		Plastic Limit	IS 2720 (Part 5): 1985 (RA 2015)	0 % to 35 %
		Moisture Content	IS 2720 (Part 2): 1973 (RA 2015)	0.1 % to 20 %
		Light compaction	IS 2720 (Part 7): 1980 (RA 2016)	OMC: 4 % to 15 % MDD: 1.52 g/cc to 2.5 g/cc

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		Heavy compaction	IS 2720 (Part 8): 1983 (RA 2015)	OMC: 4 % to 15 % MDD: 1.52 g/cc to 3 g/cc
		California Bearing Ratio (CBR)	IS 2720 (Part 16): 1987 (RA 2016)	1 % to 80 %
		Free Swell Index	IS 2720 (Part 40): 1977 (RA 2016)	0 to 80 % Max.

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