

Laboratory

Shri Dwarkadhish Testing Labs & Research Consultancy, Village Jaipur Padli, Fatehpur, Haldwani, Nainital, Uttarakhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

TC-7017

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Validity

12.03.2018 to 11.03.2020

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 MATERIALS				
1.	Fine Aggregate	Sieve analysis	IS 2386 (Part-1)	4.75 µm to 75 µm
		Water absorption	IS 2386 (Part-3)	0.1 % to 5.0 %
		Specific gravity	IS 2386 (Part-3)	2.0 to 3.0
		Particle finer than 75 mic	IS 2386 (Part-1)	0.1 % to 10 %
2.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1)	80 mm to 4.75 mm
		Specific Gravity	IS 2386 (Part-3)	1.0 to 3.00
		Water Absorption	IS 2386 (Part-3)	0 % to 5%
		Impact Value	IS 2386 (Part-4)	5 % to 50 %
		Flakiness Index	IS 2386 (Part-1)	5 % to 50 %
		Elongation Index	IS 2386 (Part-1)	5 % to 50 %
		Crushing Value	IS 2386 (Part-4)	10 % to 60 %
		10% Fine Value	IS 2386 (Part-4)	5 kN to 300 kN
		Bulk Density	IS 2386 (Part-3)	1 g/cc to 2 g/cc
	Los Angeles Abrasion Value	IS 2386 (Part-4)	10 % to 60 %	
3.	Hardened Concrete, Fresh Concrete	Compressive Strength of Concrete Cube	IS 516	5 MPa to 80 MPa
		Slump test	IS 1199	5 mm to 250 mm
4.	Cement OPC, PPC, RHPC, SRPC	Standard Consistency	IS 4031 (Part-4)	10 % to 45 %
		Compressive strength	IS 4031 (Part-6)	10 MPa to 100 MPa
		Soundness le- Chatelier	IS 4031 (Part-3)	0.1 mm to 10 mm
		Fineness Dry sieving	IS 4031 (Part-1)	1 % to 100 %
		Initial Setting time Final Setting Time	IS 4031 (Part-5)	30 min to 300 min 30 min to 900 min
5.	Bricks	Water Absorption	IS 3495 (Part-2)	1 % to 30 %
		Compressive Strength	IS 3495 (Part-1)	3.5 MPa to 50 MPa
		Efflorescence	IS 3495 (Part-3)	Qualitative

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		Dimension Length	IS 13757	4520 mm to 4680 mm
		Width	IS 12894	2160 mm to 2240 mm
		Height	IS 1077	1360 mm to 1440 mm
6.	Bitumen, Modified Bitumen	Specific Gravity	IS 1202	0.5 to 1.5
		Softening Point	IS 1205	15 °C to 80 °C
		Penetration	IS 1203	30 to 225 (1/10 mm)
		Ductility	IS 1208	20 cm to 100 cm
		Marshall Stability	ASTM D-6927	1 kN to 50 kN
		Marshall Flow	ASTM D-6927	1 mm to 25 mm
		Bitumen Content	ASTM 2172	1 % to 10 %
II.	SOIL AND ROCK			
1.	Soil	Liquid Limit	IS 2720 (Part- 5) (Cl. 7)	1 % to 100 %
		Plastic Limit	IS 2720 (Part-5) (Cl. 7)	1 % to 100 %
		Plasticity Index	IS 2720 (Part-5) (Cl. 7)	0 % to 30 %
		Heavy Compaction Test MDD, OMC	IS 2720 (Part-8)	1.5 g/cc to 2.5 g/cc 5 % to 30 %
		Proctor Light Compaction OMC, MDD	IS 2720 (Part-7)	1.0 g/cc to 2.5 g/cc 5% to 30%
		Moisture content	IS 2720 (Part-2)	0.1 % to 30 %
		Free Swell Index	IS 2720 (Part -40)	1 % to 200 %
		Grain size Analysis	IS 2720 (Part-4)	75 mm to 19 mm
		California Bearing Ratio (C.B.R.)	IS 2720 (Part-16)	3 % to 60 %
III.	WOOD AND WOOD PRODUCTS			
1.	Timber	Moisture Content	IS 1708 (Part-1)	0.5 % to 50 %