

Laboratory

Civil Engineering Research Laboratory, Lab House, Road No. 5, RJD Integrated Textile Park, SITP-1, Ichhapore, Hazira Road, Surat, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5559

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Validity 26.10.2017 to 25.10.2019

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.	Fine Aggregate	Sieve Analysis (IS Sieve 10 mm to 75 µm)	IS 2386 : Part 1	Upto 100%
		Specific Gravity	IS 2386 : Part 3	1.00 to 3.000
		Water Absorption	IS 2386 : Part 3	0.20% to 3.00 %
2.	Coarse Aggregate	Sieve Analysis (IS Sieve 100 mm to 6.3 mm)	IS 2386 : Part 1	Upto 100%
		Specific Gravity	IS 2386 : Part 3	1.0 to 3.5
		Water Absorption	IS 2386 : Part 3	0.20% to 4.00 %
		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 %
3.	Concrete	Compressive Strength	IS 516	2.0 N/mm ² to 85.0 N/mm ²
		Slump Test	IS 1199	5 mm to 125 mm
4.	Clay Bricks / Fly ash Brick	Water Absorption	IS 3495:Part 2	1.00% to 30.00%
		Compressive Strength	IS 3495:Part 1	2.0N/mm ² to 40.0N/mm ²
		Dimension	IS:1077	L-4500 mm to 4700 mm W-2100 mm to 2300mm H-1300 mm to 1500 mm
5.	Cement (OPC/PPC)	Consistency	IS 4031 : Part 4	20 % to 40.0 %
		Initial Setting Time	IS 4031 : Part 5	30 Min. to 300 Min.
		Final Setting Time	IS 4031 : Part 5	200 Min. to 600 Min.

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		Soundness by Le Chatelier	IS 4031 : Part 3	0.50 mm to 10.00 mm
		Compressive Strength	IS 4031 : Part 6	5.0N/mm ² to 60.0 N/mm ²
		Fineness by Blain Permeability	IS 4031 : Part 2	100m ² /kg to 500 m ² /kg
		Fineness by Dry Sieve	IS 4031 : Part 1	1.00 % to 10.00%
II.	SOIL & ROCK			
1.	Soil	Liquid Limit	IS 2720 : Part 5	10 % to 75 %
		Plastic Limit	IS 2720 : Part 5	10 % to 30 %
		Sieve Analysis (Sieve Size : 4.75 µm to 75 µm)	IS 2720 : Part 4	Upto 100%
		Free Swell Index	IS 2720 : Part 40	Upto 100%
		Light Compaction MDD OMC	IS 2720 : Part 7	1.00 g/cc to 2.10 g/cc 2.00 % to 30.00 %
		Heavy Compaction MDD OMC	IS 2720 : Part 8	1.00 g/cc to 2.50 g/cc 2.0% to 25.0%
		CBR	IS 2720 : Part 16:	0.5% to 50.0%