

Laboratory

Sheetal Engineering Associates, #4/1, 2nd Main, 9th Cross
Chamarajapet, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6624

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Validity 11.02.2018 to 10.02.2020

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.	Cement	Fineness (Dry Sieving)	IS 4031 (Part 1):1996 (RA 2016)	1% to 10%
		Consistency	IS 4031 (Part 4):1988 (RA 2014)	15% to 40 %
		Initial Setting Time	IS 4031 (Part 5):1988 (RA 2014)	30min to 300 min
		Final Setting Time	IS 4031 (Part 5):1988 (RA 2014)	60min to 600min
		Soundness. (Le-Chatelier)	IS 4031 (Part 3):1988 (RA 2014)	0.50mm to 6mm
2.	Coarse Aggregate	Sieve Analysis (40mm to 4.75mm)	IS 2386 (Part1):1963 (RA 2016)	20mm: 95% to 100% 10.0mm: 25% to 55% 4.75mm: Upto10%
		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%
		Water Absorption	IS 2386 (Part 3):1963 (RA 2016)	1% to 5%
		Aggregate Impact Value	IS 2386 (Part 4):1963 (RA 2016)	1% to 50%
		Aggregate Crushing Value	IS 2386 (Part 4):1963 (RA 2016)	1% to 50%

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director

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3.	Fine Aggregate	Sieve Analysis (4.75mm to 0.075mm)	IS 2386 (Part1):1963 (RA 2016)	4.75 mm: 90%to100% 2.36 mm: 60% to100% 1.18 mm: 30% to100% 0.600 mm:15% to100% 0.300 mm:5% to 50% 0.150 mm:Upto15%
		Specific Gravity	IS 2386 (Part 3):1963 (RA 2016)	2 to 3
		Water absorption	IS 2386 (Part 3):1963 (RA 2016)	0.1% to 5%
		Particles finer than 75micron	IS 2386 (Part1):1963 (RA 2016)	0.1% to 10%
4.	Bricks	Dimension Length Width Height	IS 1077-1992 (RA 2016)	4220mm to 4380mm 1960mm to 2040mm 1460mm to 1540mm
		Water Absorption	IS 3495 (Part 2):1992 (RA 2016)	1% to 30 %
		Compressive Strength	IS. 3495 (Part 1):1992 (RA 2016)	10kN to 600kN
		Efflorescence	IS 3495 (Part 3):1992 (RA 2016)	Qualitative
5.	Harden Concrete			
a.	CC Cube	Compressive Strength	IS 516: 1959 (RA 2013)	10kN to 1000kN
b.	CC Solid Block	Compressive Strength	IS 2185 (Part 1):2005 (RA 2015)	10kN to 1000kN

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II.	SOIL AND ROCK			
1.	Soil	Particle Size Analysis (4.75mm to 75 μ)	IS 2720 (Part 4):1985 (RA 2015)	4.75mm 2.36mm 2.00mm 1.18mm 600 μ 425 μ 300 μ 150 μ 75 μ
		Light Compaction OMC MDD	IS 2720(Part 7):1980 (RA 2016)	5% to 30% 1g/cc to 3g/cc
		Heavy Compaction OMC MDD	IS 2720(Part 8):1983 (RA 2015)	5% to 30% 1g/cc to 3g/cc
		CBR	IS 2720 (Part 16):1987 (RA 2016)	1% to 50%
		Liquid Limit	IS 2720(Part 5):1985 (RA 2015)	5% to 75%
		Plastic Limit	IS 2720(Part 5):1985 (RA 2015)	5% to 75%