

Laboratory	Sheetal Engineering Associates, #20, 5th Cross, Sirsi Road, Chamarajpet, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	24.04.2015
Certificate Number	T-2827	Valid Until	10.02.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. BUILDING MATERIALS				
1.	Cement	Fineness (Dry Sieving)	IS 4031 (Part 1): 1996 (RA 2011)	1 % to 10 %
		Consistency	IS 4031 (Part 4): 1988 (RA 2009)	15 % to 40 %
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2009)	5 minutes to 300 minutes
		Final Setting Time	IS 4031(Part 5): 1988 (RA 2009)	10 minutes to 700 minutes
		Soundness (Lee-Chatleir)	IS 4031 (Part 3): 1988 (RA 2009)	1 mm to 10 mm
		Compressive Strength	IS 4031 (Part 6): 1988 (RA 2009)	5 N/mm ² to 75 N/mm ²
2.	Coarse Aggregate	Sieve Analysis (20 mm to 4.75 mm)	IS 2386 (Part 1): 1963 (RA 2011)	4.75 mm to 40 mm
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	2 to 4
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2011)	5 % to 50 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2011)	5 % to 50 %
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2011)	1 % to 5 %
		Aggregate Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 50 %
		Aggregate Crushing Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 50 %
3.	Fine Aggregate	Sieve Analysis (4.75 mm to 0.075 mm)	IS 2386 (Part 1): 1963 (RA 2011)	150 μ to 4.75 mm
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2007)	0.5 to 3
		Water absorption	IS 2386 (Part 3): 1963 (RA 2007)	0.1 to 5
		Particles finer than 75micron	IS 2386 (Part 1): 1963 (RA 2007)	0.1 to 75 micron

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4.	Bricks	Dimension	IS 1077: 1992 (RA 2011)	L= 4300±80mm W=2000±40mm H =1500±40 mm
		Water Absorption	IS 3495 (Part 2): 1992 (RA 2011)	1 % to 30 %
		Compressive Strength	IS. 3495 (Part 1): 1992 (RA 2011)	3 N/mm ² to 20 N/mm ²
		Efflorescence	IS 3495 (Part 3): 1992 (RA 2011)	Qualitative
5.	Harden Concrete	a. CC Cube	IS 516: 1959 (RA 2008)	10 N/mm ² to 40 N/mm ²
		b. CC Solid Block	IS 2185 (Part 1): 2005 (RA 2010)	3 N/mm ² to 10 N/mm ²
II. SOIL & ROCK				
1.	Soil	Particle Size Analysis (4.75 mm to 0.075 mm)	IS 2720 (Part 4): 1985 (RA 2010)	75 μ to 4.75 mm
		Light Compaction.	IS 2720 (Part 7): 1980 (RA 2011)	OMC = 5 % to 30 % MDD = 1 g/cc to 3 g/cc
		CBR	IS 2720 (Part 16): 1987 (RA 2011)	1 % to 50 %
		Liquid Limit	IS 2720 (Part 5): 1985 (RA 2010)	5 % to 75 %
		Plastic Limit	IS 2720 (Part 5): 1985 (RA 2010)	5 % to 75 %

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