

Laboratory	Shree Conmat Engineering Services, Unit No. 10, Om Anand Industrial Estate, Raghunath Nagar, Thane (W) Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	03.02.2015
Certificate Number	T-3274	Valid Until	02.02.2017
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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. BUILDINGS MATERIALS				
1.	Cement Testing	Fineness by dry sieving (90 μ)	IS 4031 (Part 1): 1996 (RA 2011)	0.05 % to 100 %
		Fineness by air permeability (Blains)	IS 4031(Part 2): 1999 (RA 2013)	100 m ² /kg to 600 m ² /kg
		Consistency	IS 4031 (Part 4): 1988 (RA 2009)	10 % to 50 %
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2009)	5 minutes to 600 minutes
		Final Setting Time	IS 4031 (Part 5): 1988 (RA 2009)	60 minutes to 600 minutes
		Soundness by Le-Chatelier Test	IS 4031 (Part 3): 1988 (RA 2009)	0.5 mm to 15 mm
		Compressive Strength (3 Day,7 Day,28 Day)	IS 4031 (Part 6): 1988 (RA 2009)	10 N/mm ² to 80 N/mm ²
	Specific Gravity	IS 4031 (Part 4): 1988 (RA 2009)	2 to 3.5	
2.	Pozzolanic Material	Specific Gravity	IS 1727 1967 (RA 2013)	2 to 2.80
		Fineness (-45 μ Sieve)	IS 1727 1967 (RA 2013)	0.05 % to 100 %
		Fineness by Blaine Air Permeability Method	IS 1727 1967 (RA 2013)	50 m ² /kg to 800 m ² /kg
		Cement Reactivity (compressive strength)	IS 1727 1967 (RA 2013)	1 N/mm ² to 60 N/mm ²
		Lime Reactivity	IS 1727 1967 (RA 2013)	0.1 N/mm ² to 12 N/mm ²
3.	Aggregates	Grading (Sieve Analysis)	IS 2386 (Part 1): 1963(RA 2011)	63 mm, 50 mm, 40 mm, 25 mm,20 mm, 16 mm, 12.5 mm,10 mm,4.75 mm, 2.36 mm, 1.18 mm, 600 μ , 300 μ & 150 μ .

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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
	Aggregates	Deleterious Substances: Clay Lumps Finer Than 75 μ Sieve Coal and Lignite Soft Material	IS 2386 (Part 2): 1963 (RA 2011)	0.1 % to 50 %
		Silt content	IS 2386 (Part 2): 1963 (RA 2011)	1 % to 20 %
		Organic Impurities in Fine Aggregates	IS 2386 (Part 2): 1963 (RA 2011)	Qualitative Test
		(Bulk Density)	IS 2386 (Part 3): 1963 (RA 2011)	1 g/cc to 3 g/cc
		Soundness of Aggregate	IS 2386 (Part 5): 1963 (RA 2011)	Upto 10 %
		Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 60 %
		Crushing Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 60 %
		10% Fines Value	IS 2386 (Part 4): 1963 (RA 2011)	20 k to 500 kN
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	1.5 to 3.5
		Water Absorption & Moisture Content	IS 2386 (Part 3): 1963 (RA 2011)	0.01 % to 15 %
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2011)	1.0 % to 25 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2011)	1.0 % to 50 %
4.	Bricks (Building Bricks)	Compressive Strength	IS 3495 (Part 1): 1992 (RA 2011)	10 kg /cm ² to 300 kg /cm ²
		Water Absorption	IS 3495 (Part 2): 1992 (RA 2011)	1 % to 30 %
		Efflorescence	IS 3495 (Part 3): 1992 (RA 2011)	Qualitative Test
		Dimensions	IS 3495 (Part 3): 1992 (RA 2011)	100 mm to 5000 mm

