

Laboratory Sri Sainath Laboratory, D. No. 6-12-10A, K. B. Layout, Tirupati,
Andhra Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6781 (in lieu of T-2810)

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Validity 31.01.2018 to 30.01.2020

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.	BUILDINGS MATERIALS			
1.	Cement	Fineness (Dry Sieving)	IS 4031 (Part 1): 1988 (RA 2016)	0.1 % to 10 %
		Consistency	IS 4031 (Part 4): 1998 (RA 2009)	15% to 40%
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2009)	(30 to 300) minutes
		Final Setting Time	IS 4031 (Part 5): 1988 (RA 2009)	(10 to 600) minutes
		Soundness (Le-Chatelier)	IS 4031 (Part 3): 1988 (RA 2014)	0.1 mm to 10.0 mm
		Compressive Strength	IS 4031 (Part 6): 1988 (RA 2009)	(1 to 75) N/mm ²
2.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2016)	4.75 mm to 63 mm
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2016)	2 to 4
		Bulk Density (Loose & Compacted)	IS 2386 (Part 3): 1963 (RA 2016)	1.00 kg/l to 3.00 kg/l
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2016)	1 % to 50 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2016)	1 % to 50 %
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2016)	0.1 % 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 %
3.	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2016)	150 µm to 10 mm
		Bulking	IS 2386 (Part 3): 1963 (RA 2016)	3 % to 10 %
		Bulk Density (Loose & Compacted)	IS 2386 (Part 3): 1963 (RA 2016)	1.00 kg/l to 3.00 kg/l
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2016)	0.5 to 3.00
		Silt Content	IS 2386 (Part 3): 1963 (RA 2016), Clause 4	0.1 % to 10 %
4.	Bricks	Dimension	IS 1077: 1992 (RA 2011)	L:(4000 to 5000) mm W:(2000 to 3000) mm H:(1000 to 2000) mm

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		Water Absorption	IS 3495 (Part 1): 1992 (RA 2011)	1 % to 30 %
		Compressive Strength	IS 3495 (Part 2): 1992 (RA 2011)	1 N/mm ² to 20 N/mm ²
		Efflorescence	IS 3495 (Part 1): 1992 (RA 2011)	Qualitative (Visual Observation)
5.	Concrete Cubes	Compressive Strength	IS 516: 1959 (RA 2013)	1 N/mm ² to 75 N/mm ²
II.	SOIL & ROCK			
1.	Soil	Grain Size Analysis	IS 2720 (Part 4): 1985 (RA 2015)	75 µm to 4.75 mm
		Light Compaction OMC MDD	IS 2720 (Part 7): 1980 (RA 2011)	5 % to 30 % 1 g/cc to 3 g/cc
		Heavy Compaction OMC MDD	IS 2720 (Part 8): 1983 (RA 2015)	5 % to 30 % 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 2015)	5 % to 75 %
		Plastic Limit	IS 2720 (Part 5): 1985 (RA 2015)	5 % to 75 %
		Free Swell Index	IS 2720 (Part 40): 1977 (RA 2011)	1 % to 75 %

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