

Laboratory

Confiar Labs & Associates, H.No.146676, Sainadh Nagar Colony, 3rd Lane, Inner Ring Road, Guntur, Andhra Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6005

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Validity 14.07.2017 to 13.07.2019

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.	Coarse Aggregate	Sieve analysis	IS 2386 (Part I)	4.75 mm to 20 mm
		Flakiness Index	IS 2386 (Part I)	1 % to 70 %
		Elongation Index	IS 2386 (Part I)	1 % to 70 %
		Specific Gravity	IS 2386 (Part III)	2 to 4
		Bulk Density	IS 2386 (Part III)	1.0 g/c.c to 2.0 g/c.c
2.	Fine Aggregate	Sieve analysis	IS 2386 (Part I)	0.15 mm to 4.75 mm
		Specific gravity	IS 2386 (Part III)	2 to 4
		Bulk Density	IS 2386 (Part III)	1.0 g/cc to 2.0 g/cc
		Silt Content	IS 2386 (Part II)	0.10 % to 20 %
		Bulking	IS 2386 (Part III)	5 % to 50 %
3.	Cubes & Cores	Compressive Strength	IS 516	5 N/mm ² to 80 N/mm ²
4.	Bitumen	Bitumen Content	ASTM D 2172	Upto 25 %
5.	Cement	Fineness	IS 4031 (Part 1)	1 % to 10 %
		Normal Consistency	IS 4031 (Part 4)	25 % to 35 %
		Initial setting time	IS 4031 (Part 5)	30 min to 300 min
		Final setting time	IS 4031 (Part 5)	100 min to 600 min
		Soundness	IS 4031 (Part 3)	0.1 mm to 10 mm
		Compressive strength	IS 4031 (Part 6)	10 N/mm ² to 80 N/mm ²
II.	SOIL AND ROCK			
1.	Soil	Differential Free Swell Index	IS 2720 (Part 40)	10 % to 50 %
		Grain Size Analysis	IS 2720 (Part 4)	75 µm to 10 mm
		Optimum Moisture Content	IS 2720 (Part 7 & 8)	5 % to 25 %
		Maximum Dry Density (Heavy Compaction)	IS 2720 (Part 7 & 8)	1.5 to 2.20
		California Bearing Ratio	IS 2720 (Part 16)	1 % to 70 %
		Liquid Limit	IS 2720 (Part 5)	10 % to 200 %

Prachi Kukreti
Convenor

N. Venkateswaran
Program Director