

Laboratory **Sri Sai Consultancy & Laboratory, H.No. 1-30-99 Padmavathi Nagar Colony, Kanajiguda, Trimulgherry, Secunderabad, Telangana**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7629** Page 1 of 2

Validity **31.07.2018 to 30.07.2020** 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.	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 % (75 µm to 10 mm)
		Material Finer than 75µm	IS 2386 (Part 1)	0.1 % to 25 %
		Specific Gravity	IS 2386 (Part 3)	1.5 to 3.5
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10 %
		Bulk Density	IS 2386 (Part 3)	1 kg/L to 2.5 kg/L
2.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 % (4.75 mm to 100 mm)
		Specific Gravity	IS 2386 (Part 3)	2.0 to 3.5
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10 %
		Bulk Density	IS 2386 (Part 3)	1 kg/L to 2.5 kg/L
		Impact Value	IS 2386 (Part 4)	5 % to 50 %
		Crushing Value	IS 2386 (Part 4)	5 % to 50 %
3.	Hardened Concrete	Compressive Strength (Cube & Core)	IS 516	5 N/mm ² to 80 N/mm ²
		4.	OPC/PPC Cement	Standard Consistency
Initial Setting Time	IS 4031 (Part 5)			30 minute to 360 minute
Final Setting Time	IS 4031 (Part 5)			120 minute to 600 minute
Fineness (Blaine Air Permeability)	IS 4031 (Part 2)			200 m ² /kg to 500 m ² /kg
Compressive Strength	IS 4031 (Part 6)			10 N/mm ² to 80 N/mm ²
Soundness (by Le-Chatelier Method)	IS 4031 (Part 3)			0.1 mm to 10mm
5.	Burnt Clay Bricks	Dimension	IS1077	L: 3500 mm to 5000 mm W: 1800 mm to 3000 mm H: 500 mm to 1800 mm
		Water Absorption	IS 3495 (Part 2)	1 % to 50 %
		Compressive Strength	IS 3495 (Part-1)	1 N/mm ² to 50 N/mm ²

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6.	Bitumen	Penetration	IS 1203	10 to 100 (Unit:1/10 mm)
		Softening Point	IS 1205	30 °C to 70 °C
		Ductility	IS 1208	10 cm to 100 cm
7.	Paver Block	Compressive Strength	IS 15658 (Annexure D)	1 N/mm ² to 75 N/mm ²
		Water Absorption	IS 15658 (Annexure C)	0.1 % to 25 %
8.	Concrete Block (Solid & Hollow)	Block Density	IS 2185 (Part 1 / Annex. C)	1000 kg/m ³ to 3000 kg/m ³
		Compressive Strength	IS 2185 (Part 1 / Annex. D)	1 N/mm ² to 25 N/mm ²
		Water Absorption	IS 2185 (Part 1 / Annex. E)	1 % to 20 %
II.	SOIL AND ROCK			
1.	Soil	Water Content	IS 2720 (Part 2)	0.1 % to 40 %
		Specific Gravity	IS 2720 (Part 3 / Section 1)	1 to 4
		Particle Size Distribution (Wet Analysis)	IS 2720 (Part 4)	0.1 % to 100 % (75 µm to 4.75 mm)
		Liquid Limit	IS 2720 (Part 5)	10 % to 80 %
		Plastic Limit	IS 2720 (Part 5)	5 % to 80 %
		Light Compaction	IS 2720 (Part 7)	OMC: 1 % to 40 % MDD: 1.1 g/cc to 3.0 g/cc
		Heavy Compaction	IS 2720 (Part 8)	OMC: 1 % to 40 % MDD: 1.1 g/cc to 3.0 g/cc
		Triaxial Compression	IS 2720 (Part 11)	C: (0.05 to 5.0) kg/cm ² Ø: 1° to 50°
		Direct Shear	IS 2720 (Part 13)	C: (0.01 to 5.0) kg/cm ² Ø: 1° to 60°
		California Bearing Ratio	IS 2720 (Part 16)	1 % to 80 %
	Free Swell Index	IS 2720 (Part 40)	5 % to 150 %	
2.	Rock	Brazilian Tensile Strength	IS 10082	1 MN/m ² to 500 MN/m ²
		Point Load Strength	IS 8764	1 MN/m ² to 35 MN/m ²
		Unconfined Compressive Strength	IS 9143	1 N/m ² to 300 N/mm ²