

Laboratory **Aimil Testing Laboratory, A-8, Mohan Co-operative Industrial Estate,
Mathura Road, New Delhi**

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

Certificate Number **TC-7287 (in lieu of T-2250)**

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Validity **07.06.2018 to 06.06.2020**

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.	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1)	150 μ to 10 mm
2.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1)	2.36 mm to 80 mm
		Aggregate Impact Value	IS 2386 (Part-4)	5 % to 50 %
		Crushing Value	IS 2386 (Part-4)	5 % to 50 %
3.	Cement Concrete	Compressive Strength of cubes	IS 516	2 N/mm ² to 55 N/mm ²
		Compressive Strength of Cores	IS 516	2 N/mm ² to 55 N/mm ²
II.	SOIL & ROCK			
1.	Soil	Grain Size Analysis	IS : 2720 (Part-4)	2 micron to 100 mm
		Dry/Wet Sieve Analysis	IS : 2720 (Clause 4.3.1	
		Hydrometer Analysis	/4.3.2)IS : 2720 (Clause 5.2)	
		Atterberg Limits	IS : 2720 (Part-5)	
		Liquid Limit		20 % to 60 %
		Plastic Limit		5 % to 40 %
		California Bearing Ratio (C.B.R.)	IS : 2720 (Part-16)	02 % to 80 %
		Direct Shear Test	IS : 2720 (Part-13)	
		C		0 to 5.6 kg/cm ²
		ϕ		5° to 50°
				(vertical Stress Up to

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				4 kg/cm ² (Shear Load Up to 2.0 kN)
		Proctor Compaction Test Compaction	IS : 2720 (Part-7) IS : 2720 (Part-8)	OMC= 3 % to 40 % MDD=1.00 g/cc to 2.50 g/cc
		Tri-axial Compression Test Without pore pressure (UU) C Φ	IS : 2720 (Part-11)	Up to 5 kg/cm ² 0° to 15° (0 to 10kN) (20 bar)
		Consolidated Undrained Triaxial Compression Test With measurement pore water pressure (CU) C Φ	IS : 2720 (Part-12)	0.01 to 5 kg/cm ² 5° to 45° (Up to 10 kN,20 bar)
		Consolidated Drained Triaxial Compression Test With measurement pore water pressure (CD) C Φ	IS : 2720 (Part-12)	0.01 to 5 kg/cm ² 5° to 50° (Up to 10 kN,20 bar)
2.	Rock	Unconfined Compressive Strength	IS : 9143	3 MPa to 200 MPa
		Triaxial Compression Test C	IS : 13047	1 MPa to 15 MPa

Ashutosh D. Tatwawadi
Convenor

N. Venkateswaran
Program Director

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		Φ Slake Durability Index	IS : 10050	4° to 70° 50 % to 99.9 %
		Point Load Strength Index	IS : 8764	2 to 30 MPa
		Rock Joints-Direct Shear Strength	IS 12634	Up to 12 MPa 2° to 45°
		Φ Tensile strength by Brazilian Method	IS 10082	Up to 20 MPa