

Laboratory	Aimil Testing Laboratory, A-8, Mohan Co-operative Industrial Estate, Mathura Road, Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	07.06.2014
Certificate Number	T-2250	Valid Until	06.06.2016
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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
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I. BUILDING MATERIALS

1.	Aggregate Coarse/ Fine	Sieve Analysis	IS 2386 (Part-1) 1963, (RA 2007)	75 μ to 80 mm
2.	Aggregate Coarse	Aggregate Impact Value	IS 2386 (Part-4) 1963, (RA 2007)	1% to 50%
		Crushing Value	IS 2386 (Part-4) 1963, (RA 2007)	1% to 50%
3.	Cement Concrete	Compressive Strength of cubes	IS 516-1959, (RA 2004)	5 MPa to 80 MPa

II. SOIL & ROCK TESTING

1.	Soil	Grain Size Analysis: a) Dry/Wet Sieve Analysis b) Hydrometer Analysis	IS 2720 (Part-4) 1985, (RA 2006)	2 micron to 100 mm
		Atterberg's Limits: a) Liquid Limit b) Plastic Limit	IS 2720 (Part-5) 1985, (RA 2005)	LL: 20% to 60% PL: 5% to 40%
		Compaction Test: a) Light Compaction	IS 2720 (Part-7) 1980, (RA 1997)	MDD: 1.00 g/cc to 2.50 g/cc
		b) Heavy Compaction	IS 2720 (Part-8) 1983, (RA 2005)	OMC: 5% to 40%
		California Bearing Ratio (C.B.R.)	IS 2720 (Part-16) 1987, (RA 2002)	5% to 80%

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	Soil	Direct Shear Test (Vertical Stress Upto 4 kg/cm ²) (Shear Load Upto 2.0 kN)	IS 2720 (Part-13) 1986, (RA 2002)	‘c’: 0.1 kg/cm ² to 5.6 kg/cm ² ‘φ’: 5° to 50°
		Tri-axial Compression Test Without pore pressure (UU) (0 to 10 kN) (20 bar)	IS 2720 (Part-11) 1993, (RA 2002)	‘c’: 0.2 MPa to 1 MPa ‘φ’: 0° to 15°
		Consolidated Undrained Tri-axial Compression Test With measurement pore water pressure (CU) (Upto 10 kN, 20 bar) & Consolidated Drained Tri-axial Compression Test With measurement pore water pressure (CD) (Upto 10 kN, 20 bar)	IS 2720 (Part-12) 1981, (RA 2002)	‘c’: 0.05 MPa to 0.5 MPa ‘φ’: 5° to 40°
2.	Rock	Unconfined Compressive Strength	IS 9143-1979, (RA 1996)	3 MPa to 200 MPa
		Slake Durability Index	IS 10050-1981, (RA 2006)	80% to 99.9%
		Point Load Strength Index	IS 8764-1998, (RA 2003)	2 MPa to 30 MPa
		Tri-axial Compression Test (Normal Load Upto 500 kN, Cell pressure Upto 600 kg/cm ²)	IS 13047-1991, (RA 1996)	‘c’: 2 MPa to 15 MPa ‘φ’: 4° to 70°

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