

Laboratory	ALCON CTL Testing Pvt. Ltd., Ground Floor, #35, 4th Main, 4th Stage, Industrial Town, Basaveswaranagar, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	24.05.2014
Certificate Number	T-2965	Valid Until	23.05.2016
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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
I. SOIL & ROCK				
1.	Soil	Water Content	IS: 2720 (Part II)- 1973, (RA 2010)	0.1% to 70%
		Grain Size Distribution	IS: 2720 (Part IV)- 1985, (RA 2010)	0.075mm to 4.75mm
		Liquid Limit	IS: 2720 (Part V)- 1985, (RA 2010)	10% to 60%
		Plastic Limit	IS: 2720 (Part V)- 1985, (RA 2010)	1% to 60%
		Light compaction	IS: 2720 (Part VII)- 1980, (RA 2011)	MDD: 1.40 to 1.95 g/cc OMC: 10% to 30 %
		Heavy compaction	IS: 2720 (Part VIII)- 1983, (RA 2011)	MDD: 1.40 to 2.10 g/cc OMC: 10% to 30 %
		Direct Shear	IS: 2720 (Part 13)- 1986, (RA 2011)	C: 0 to 1.0 kg/Sq.cm Φ: 5 to 45 ⁰
		Specific Gravity	IS: 2720 (Part III)- 1980, (RA 2011)	2.0 to 3.0
		Consolidation	IS: 2720 (Part 15)- 1986, (RA 2011)	0.1 x 10 ⁻³ to 8.0 x 10 ⁻⁵ cm ² /s
		Tri-axial	IS: 2720 (Part 11)- 1971, (RA 2011)	C: 0 to 2.0 kg/Sq.cm Φ: 5 to 40 ⁰
		Free Swell Index	IS: 2720 (Part 40)- 1977, (RA 2011)	10% to 70%
		California Bearing Ratio	IS: 2720 (Part 16)- 1987, (RA 2011)	2% to 50%

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II. BUILDING MATERIALS				
1.	Coarse Aggregate	Gradation	IS: 2386 (Part I)- 1963, (RA 2011)	4.75 mm to 80 mm
		Flakiness Index	IS: 2386 (Part I)- 1963, (RA 2011)	1% to 70%
		Elongation Index	IS: 2386 (Part I)- 1963, (RA 2011)	1% to 70%
		Specific gravity	IS: 2386 (Part III)- 1963, (RA 2011)	0 to 4.00
		Bulk Density (Loose)	IS: 2386 (Part III)- 1963, (RA 2011)	0.50 to 3.0 kg/l
		Bulk Density (Rodded)	IS: 2386 (Part III)- 1963, (RA 2011)	0.50 to 3.0 kg/l
		Water absorption	IS: 2386 (Part III)- 1963, (RA 2011)	0.1% to 10%
		Impact value	IS: 2386 (Part IV)- 1963, (RA 2011)	1% to 50%
		Crushing Value	IS: 2386 (Part IV)- 1963, (RA 2011)	1% to 50%
2.	Fine Aggregate	Gradation	IS: 2386 (Part I)- 1963, (RA 2011)	4.75 mm to 80 mm
		Specific gravity	IS: 2386 (Part III)- 1963, (RA 2011)	0 to 4.00
		Bulk Density (Loose)	IS: 2386 (Part III)- 1963, (RA 2011)	0.50 to 3.0 kg/l
		Bulk Density (Rodded)	IS: 2386 (Part III)- 1963, (RA 2011)	0.50 to 3.0 kg/l
		Water absorption	IS: 2386 (Part III)- 1963, (RA 2011)	0.1% to 10%
3.	Concrete	Compressive strength	IS: 516- 1959, (RA 2011)	1 to 75 N/mm ²

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