

Laboratory Anand Raj Construction, F-159, P.C. Colony, Kankarbagh, Patna, Bihar

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7266

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Validity 18.05.2018 to 17.05.2020

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.	SOIL AND ROCK			
1.	Soil	Moisture content	IS 2720 (Part 2)	0.7 % to 50 %
		Specific gravity	IS 2720 (Part 3 / Section 1)	2.55 to 2.82
		Grain Size Analysis	IS 2720 (Part 4)	0.075 mm to 4.75 mm
		Liquid Limits	IS 2720 (Part 5)	15 % to 70 %
		Plastic Limit	IS 2720 (Part 5)	15 % to 26 %
		Compaction (Light)	IS 2720 (Part 7)	MDD: 1.40 g/cc to 2.30 g/cc OMC: 3 % to 30 %
		Compaction (Heavy)	IS 2720 (Part 8)	MDD: 1.40 g/cc to 2.16 g/cc OMC: 3 % to 30 %
		Triaxial Test (UU)	IS 2720 (Part 11)	0.1 kg/cm ² to 3 kg/cm ² 1° to 40 °
		Direct Shear Test	IS 2720 (Part 13)	0.013 kg/cm ² to 33 kg/cm ² 1° to 40 °
		California Bearing Ratio (CBR)	IS 2720 (Part 16)	1 % to 35 %
		Free-Swell-Index	IS 2720 (Part 40)	5 % to 80 %
		Consolidation	IS 2720 (Part 15)	0.001 cm ² /s to 1 cm ² /s
2.	Rock	Water absorption	IS 1124	0.3 % to 3 %
		Density	IS 1124	2 g/cc to 2.9 g/cc
		Point load strength	IS 8764	10 kN to 450 kN
		Unconfined compressive strength (UCS)	IS 9143	10 kg/cm ² to 3000 kg/cm ²