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SI.	Product / Material of Test	Specific Test Performed	•	Range of Testing / Limits of Detection
			performed	

MECHANICAL TESTING

Ι.	SOIL & ROCK			
1.	Soil	Sieve Analysis	IS 2720 (Part 4): 1985 (RA 2015)	0.1 % to 100 % (4.75 mm to 0.075 mm)
-		Hydrometer Test	IS 2720 (Part 4): 1985 (RA 2015)	0.1 % to 90 %
		Liquid limit	IS 2720 (Part 5): 1985 (RA 2015)	15 % to 60 %
		Plastic limit	IS 2720 (Part 5): 1985 (RA 2015)	8 % to 25 %
		Water Content	IS 2720 (Part 2): 1973 (RA 2015)	1 % to 200 %
		Specific Gravity	IS 2720 (Part 3 & Sec 1): 1980 (RA 2016)	1.0 to 4.0
		Light Compaction Test Maximum Dry Density Optimum Moisture Content	IS 2720 (Part 7): 1980 (RA 2016)	1.0 g/cm ³ to 2.85 g/cm ³ 4 % to 50 %
		Heavy Compaction Test Maximum Dry Density Optimum Moisture Content	IS 2720 (Part 8): 1980 (RA 2016)	1.0 g/cm ³ to 3.2 g/cm ³ 4 % to 50 %
		Direct Shear Test Cohesion Angel of internal friction	IS 2720 (Part 13): 1981 (RA 2016)	0.01 kg/cm ² to 1.0 kg/cm ² 22° to 40°
		Triaxial Shear Test (UU) Cohesion Angel of internal friction	IS 2720 (Part 11): 1993 (RA 2016)	0.1 kg/cm ² to 4.0 kg/cm ² 1° to 27°
		Unconfined Compressive Strength	IS 2720 (Part 10): 1991 (RA 2015)	0.5 kg/cm ² to 5.0 kg/cm ²

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		California Bearing Ratio	IS 2720 (Part 16): 1987 (RA 2016)	2.5 to 12.0
		Free Swell index	IS 2720 (Part 40): 1977 (RA 2016)	5 % to 200 %
		Swelling Pressure	IS 2720 (Part 41): 1977 (RA 2016)	0.05 kg/cm ² to 2.0 kg/cm ²
		Consolidation Test	IS 2720 (Part 15): 1986 (RA 2016)	0.05 kg/cm ² to 8 kg/cm ²
2.	Rock	Uniaxial Compressive Strength	IS 9143:1979 (RA 2016)	20 kg/cm ² to 1500 kg/cm ²
		Point load Test	IS 8764:1998 (RA 2014)	1.5 kg/cm ² to 1500 kg/cm ²
		Hardness (Mohs scale)	IS 13630 (Part 13): 2006 (RA 2017)	1 to 9