Laboratory Gomti Technical Associates, 1/136, Vijayant Khand, Gomti Nagar,

Lucknow, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7038 Page 1 of 2

Validity 16.03.2018 to 15.03.2020 Last Amended on --

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
İ	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

I.	BUILDING MATERIA			
1.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1)	4.75 mm to 80 mm
		Flakiness Index	IS 2386 (Part-1)	1% to 70 %
		Elongation Index	IS 2386 (Part-1)	1% to 70 %
		Aggregate Impact value	IS 2386 (Part-4)	5% to 70 %
		Los Angeles Abrasion value	IS 2386 (Part-4)	1 % to 50 %
		Specific gravity	IS 2386 (Part-3)	1.5 to 3.5 (up to 10 mm)
		Water absorption	IS 2386 (Part-3)	0.1% to 5 %
2.	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1)	150 μ to 10 mm
		Specific Gravity	IS 2386 (Part-3)	1.5 to 3.5
		Water absorption	IS 2386 (Part-3)	0.02% to 5%
3.	Bricks	Compressive Strength	IS 3495 (Part-1)	1 N/mm ² to 30 N/mm ²
		Water Absorption	IS 3495 (Part-2)	0.5% to 35%
		Efflorescence	IS 3495 (Part-3)	Qualitative
4.	Cement	Consistency	IS 4031 Part-IV 1988, RA- 2014	20% to 40 %
		Initial Setting time	IS 4031 (Part-5)	30 minutes to 400 minutes
		Final setting time	IS 4031 (Part-5)	30 minutes to 600 minutes
		Soundness (Le-Chatelier Method)	IS 4031 (Part-3)	0.1 mm to 10 mm
		Compressive Strength	IS 4031 (Part-6)	10 N/mm ² to 60 N/mm ²
II.	SOIL & ROCK			
1.	Soil	Moisture Content	IS 2720 (Part-2)	0.1% to 50%

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Certificate Number TC-7038 Page 2 of 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
		Specific Gravity	IS 2720 (Part-3, Sect-1)	2 to 3
		Grain size analysis	IS 2720 (Part-4)	75 μ to 4.75 mm
		Liquid Limit	IS 2720 (Part-5)	20% to 100 %
		Plastic Limit	IS 2720 (Part-5)	NP-50%
		Maximum Dry Density (Heavy Compaction)	IS 2720 (Part-8)	1.5 g/cm ³ to 3 g/cm ³
		Optimum Moisture Content (Heavy Compaction)	IS 2720 (Part-8)	8% to 30%
		Maximum Dry Density (Light Compaction)	IS 2720 (Part-7)	1.4 g/cm ³ to 3 g/cm ³
		Optimum Moisture Content (Light Compaction)	IS 2720 (Part-7)	8% to 30%
III.	MECHANICAL PR	OPERTIES OF METALS		
1.	Steel Reinforcement	Ultimate Tensile Strength	IS 1786	20 kN to 550 kN
		Yield Stress	IS 1786	20 kN to 550 kN
		Elongation	IS 1786	10 % to 40%