Laboratory	Gayatri Geotechnic Research, Shop No. 6-8, Old N.H. No. 8, Bholav, Bharuch, Gujarat	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-5872	Page 1 of 2
Validity	30.06.2017 to 29.06.2019	Last Amended on

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

MECHANICAL TESTING

I.	SOIL & ROCK			
1.	Soil	Liquid Limit	IS 2720 (PART 5)	16 % to 200 %
		Plastic Limit	IS 2720 (PART 5)	5 % to 50%
		Specific Gravity	IS 2720 (PART 3/SEC 2)	1.50 to 3.00
		Grain Size Analysis	IS 2720 (PART 4)	0 to 100% (for Sieve 75 μ to 4.75 mm)
		Free Swell Index	IS 2720 (PART 40)	10 % to 400%
		Standard Proctor Test (Light Compaction) Maximum Dry Density Optimum Moisture Content	IS 2720 (PART 7)	1 .0 g/cc to 2.90 g/cc 10 % to 50%
II.	BUILDING MATER	RIALS		
1.	Bricks	Water Absorption	IS 3495 (PART 2)	10 % to 40%
		Compressive Strength	IS 3495 (PART 1)	1 N/mm ² to 20 N/mm ²
		Efflorescence	IS 3495 (PART 3)	Qualitative
		Dimension Length : Width : Height :	IS 1077 IS 12894	3500 mm to 4600 mm 2000 mm to 2200 mm 1200 mm to 1400 mm
2.	Concrete	Compressive Strength	IS 516	1 N/mm ² to 70 N/mm ²
3.	Paver Block	Water Absorption	IS 15658	1 % to 8%
		Compressive Strength	IS 15658	2 N/mm ² to 55 N/mm ²
4.	Cement	Consistency	IS 4031 (PART 4)	25 % to 35 %
	(OPC/PPC)	Fineness by Dry Sieving	IS 4031 (PART 1)	1 % to 10 %
		Initial Setting Time	IS 4031 (PART 5)	30 min to 300 min
		Final Setting Time	IS 4031 (PART 5)	30 min to 600 min

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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
		Compressive Strength	IS 4031 (PART 6)	10 N/mm ² to 68 N/mm ²
		Specific Gravity	IS 4031 (PART 11)	2.8 to 3.3
5.	Steel Reinforcement	Ultimate Tensile Strength	IS 1608	300 N/mm ² to 800 N/mm ²
		Yield Strength	IS 1608	300 N/mm ² to 700 N/mm ²
		Percent Elongation	IS 1608	10 % to 40 %
6.	Coarse Aggregate	Sieve analysis	IS 2386 (PART 1)	0 to 100 % (for Sieve Size 4.75 to 80 mm)
		Crushing Value	IS 2386 (PART 4)	1 % to 45 %
		Specific Gravity	IS 2386 (PART 3)	2.5 % to 3.5 %
		Water Absorption	IS 2386 (PART 3)	0.5 % to 5 %
		Flakiness Index	IS 2386 (PART 1)	5 % to 50 %
		Elongation Index	IS 2386 (PART 1)	5 % to 50 %
		Impact Value	IS 2386 (PART 4)	5 % to 35 %
		Abrasion Value	IS 2386 (PART 4)	5 % to 35 %
		Bulk Density	IS 2386 (PART 3)	1.2 g/cc to 2.0 g/cc
7.	Fine Aggregate	Sieve analysis	IS 2386 (PART 1)	0 % to 100 % (for Sieve Size 75 μ to 10 mm)
		Specific Gravity	IS 2386 (PART 3)	2.2 to 3.0
		Bulk Density	IS 2386 (PART 3)	1.4 g/cc to 2.2 g/cc