Laboratory	Material Testing Laboratory - The Gujarat Institute of Civil Engineers & Architects, Nirman Bhavan, Ellsibridge, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-7949 (in lieu of T-4162)	Page 1 of 2	
Validity	29.09.2018 to 28.09.2020	Last Amended on	

SI.	Product / Material of Test	Specific Tes	t Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection				
	MECHANICAL TESTING								
Ι.	SOIL & ROCK								
1.	Soil & Rock	Sieve Analys (0.075 to 20.0 Liquid limit & Plastic Limit Light Compaction Heavy Compaction		IS 2720:1985, (Part - 4) RA 2015 IS 2720:1985, (Part - 5) RA 2015 IS 2720:1985, (Part - 7) RA 2011 IS 2720:1985, (Part - 8) RA 2015	0.01% to 100.00 % (0.075 to 20.0 mm) 1 % to 300 % 1 % to 50 % 1 g/cc to 2.50 g/cc 2 % to 30.0 % 1 g/cc to 2.50 g/cc 2 % to 30.0 %				
		Specific gravi		IS 2720:1980, (Part-3) RA 2011	1 to 3				
П.	BUILDING MATERIALS								
1.	Coarse Aggregate	Sieve analysi		IS 2386:1963, (Part-1) RA 2016	0.01% to 100.00 % (4.75 mm to 80.0 mm)				
		Specific gravity Water absorption Flakiness Index		IS 2386:1963, (Part-3), RA 2016	1.0 to 4.0				
				IS 2386:1963, (Part-3), RA 2016	0.1 % to 10 %				
				IS 2386:1963, (Part-1), RA 2016	1.0 % to 75 %				
		Elongation In	dex	IS 2386:1963, (Part-1), RA 2016	1.0 % to 75 %				

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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
		Impact value	IS 2386 :1963, (Part-4) RA 2016	1% to 50 %
2.	Cement	Standard Consistency	IS 4031:1988, (Part - 4) RA 2013	20% to 40 %
		Initial setting time	IS 4031:1988, (Part - 5) RA 2013	10 minute to 300 minute
		Final setting time		10 minute to 800 minute
		Compressive strength	IS 4031:1988, (Part - 6) RA 2013	10 to 85 N/mm ²
		Fineness by dry sieving	IS 4031:1996, (Part – 1), RA 2016	0.1% to 25%
3.	Concrete cube	Cube Compressive Strength	IS 516:1959 RA 2013	5 N/mm ² to 85 N/mm ²
4.	Paver blocks	Compressive Strength	IS 15658:2006 RA 2016	5 N/mm ² to 85 N/mm ²
5.	Bricks	Dimensions and Tolerances	IS 1077:1992 RA 2011	500 mm to 5000 mm (20 Bricks)
		Water absorption	IS 3495:1992, (Part-2) RA 2011	1% to 50 %
		Compressive Strength	IS 3495:1992, (Part-1) RA_2011	1 N/ mm ² to 15 N/ mm ²
		Efflorescence	IS 3495:1992, (Part-3) RA_2011	Visual Assessment
6.	Fine Aggregate	Sieve analysis	IS 2386:1963, (Part-1) RA 2016	0.01% to 100.00 % (0.15 mm to 10 mm)
		Specific gravity	IS 2386:1963, (Part-3), RA 2016	1.0 to 4.0
		Water absorption	IS 2386:1963, (Part-3), RA 2016	0.1 % to 10 %