Research & Engineer Enterprises, SCO No38, Shivalik Enclave, Zirakpur, Mohali, Punjab	
ISO/IEC 17025: 2005	
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29.06.2018 to 28.06.2020	Last Amended on
	Zirakpur, Mohali, Punjab ISO/IEC 17025: 2005 TC-7486

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.	BUILDING MATER	RIALS		
1.	Bricks	Compressive Strength	IS 3495 (Part 1)	3 N/mm ² to 15 N/mm ²
		Water Absorption	IS 3495 (Part 2)	0.5 % to 30 %
		Efflorescence	IS 3495 (Part 3)	Qualitative
		Dimensions:	IS 1077	
		Length		4000 mm to 5000 mm
		Width		2100 mm to 2400 mm
		Height		1300 mm to 1600 mm
2.	Concrete	Compressive Strength	IS 516	3 N/mm ² to 80 N/mm ²
3.	Concrete Paver Blocks	Compressive Strength	IS 15658	5 N/mm ² to 80 N/mm ²
		Water Absorption	IS 15658	0.10 %to 15 %
4.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 %
				4.75 mm to 80 mm
		Flakiness Index	IS 2386 (Part 1)	1% to 70 %
		Elongation Index	IS 2386 (Part 1)	1% to 70 %
		Impact Value	IS 2386 (Part 4)	1% to 50 %
		Crushing Value	IS 2386 (Part 4)	1% to 50 %
		Water Absorption	IS 2386 (Part 3)	0.1% to 10 %
		10% Fines Value	IS 2386 (Part 4)	5 kN to 500 kN
		Bulk Density	IS 2386 (Part 3)	500 kg/m ³ to 4000 kg/m ³
5.	Aggregate (Fine)	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 %
				75 µm to 10 mm
		Water Absorption	IS 2386 (Part 3)	0.01% to 25 %
		Specific Gravity	IS 2386 (Part 3)	2.0 to 4.0
6.	Cement	Consistency	IS 4031 (Part 4)	23 % to 40 %
		Initial Setting Time	IS 4031 (Part 5)	30 minute to 400 minute
		Final Setting Time	IS 4031 (Part 5)	30 minute to 600 minute

La	boratory	Research & Engineer Enterprises, SCO No38, Shivalik Enclave, Zirakpur, Mohali, Punjab			
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SI.	Product / Material	Specific Test		d Specification	Range of Testing /

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 80 N/mm ²
		Soundness Le– Chatelier	IS 4031 (Part 3)	0.1 mm to 10 mm
		Fineness by Blaine Method	IS 4031 (Part 2)	100 m ² /kg to 500 m ² /kg
		Density	IS 4031 (Part 11)	1.5 g/cc to 3.5 g/cc
		Fineness by dry sieving	IS 4031 (Part 1)	1 % to 10 %
7.	Bituminous Mix	Bitumen Content	ASTM D 2172	1 % to 10 %
8.	Bitumen	Penetration	IS 1203	1 Division to 400 Division
		Softening Point	IS 1205	10 °C to 150 °C
		Ductility	IS 1208	1 cm to 100 cm
9.	Ceramic Tile	Dimensions Length Width Height	IS 13630 (Part 1)	50 mm to 1000 mm 50 mm to 1000 mm 1 mm to 25 mm
		Water Absorption	IS 13630 (Part 2)	0.01 % to 25 %