Laboratory	Shree Civil Engg. Pvt. Ltd., 66-C Hari Om Villa, Jadavji Nagar, Bhuj, Gujarat	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-6986	Page 1 of 3
Validity	05.03.2018 to 04.03.2020	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	

CHEMICAL TESTING

I .	WATER			
1.	Water for Construction	pH (Potentiometric Method)	IS 3025 (Part 11)	2 to 12
		Chloride as Cl (Argentometric Method)	IS 3025 (Part 32)	5 mg/L to 5000 mg/L
		Sulphate as BaSO ₄ (Gravimetric Method)	IS 3025 (Part 24)	11 mg/L to 1000 mg/L

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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.		LS		
1.	Hardened Concrete	Compressive strength	IS 516	10 N/mm ² to 80 N/mm ²
2.	Fresh Concrete	Slump Test	IS 1199	10 mm to 250 mm
3.	Paver Block	Compressive strength	IS 15658	10 N/mm ² to 50 N/mm ²
		Water Absorption	IS 15658	0.5 % to 30 %
3.	Bricks	Compressive strength	IS 3495 (Part 1)	3.0 N/mm ² to 30.0 N/mm ²
	(Burnt clay)	Water absorption	IS 3495 (Part 2)	1% to 30%
		Efflorescence	IS 3495 (Part 3)	Qualitative
		Dimension	IS 1077	
		Length		100 mm to 5000 mm
		Width		50 mm to 2500 mm
4.	Bitumen	Height	IS 1205	40 mm to 2000 mm 40°C to 100°C
4.	Ditumen	Softening Point		
		Penetration	IS 1203	10 to 100(1/10 th)
		Ductility	IS 1208	10 cm to 100 cm
		Absolute Viscosity	IS 1206 (Part 2)	360 Poise to 4000 Poise
		Kinematic viscosity	IS 1206 (Part 3)	60 cSt to 600 cSt
		Specific Gravity	IS 1202	0.5 to 1.5
5.	Bituminous Mix	Marshal Stability	ASTM D 6927-05	1 kN to 25 kN
		Flow Value	ASTM D 6927-05	1 mm to 20.0 mm
		Binder Content	ASTM D 2172	1 % to 10 %
		Density	ASTM D 2014	1.5 g/cc to 3.5 g/cc
6.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)	1 % to 100 %
				(2.36 mm to 90 mm)
		Specific Gravity	IS 2386 (Part 3)	2.0 to 4.0
		Water absorption	IS 2386 (Part 3)	1 % to 10 %
		Flakiness Index	IS 2386 (Part 1)	5 % to 70 %

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Validity

05.03.2018 to 04.03.2020

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Elongation Index	IS 2386 (Part 1)	5 % to 70 %
		Impact Value	IS 2386 (Part 4)	5 % to 50 %
		Crushing Value	IS 2386 (Part 4)	5 % to 50 %
		Bulk Density	IS:2386 (Part 3)	1 kg/L to 3 kg/L
7.	Fine Aggregate	Sieve Analysis	IS2386 (Part 1)	1 % to 100 % (75 Micron to 10 mm)
		Specific Gravity	IS 2386 (Part 3)	2.0 to 4.0
		Water absorption	IS2386 (Part 3)	1% to 10%
		Bulk Density	IS: 2386 (Part 3)	1 kg/L to 3kg/L
8.	Cement	Consistency	IS 4031 (Part 4)	25 % to 40 %
	(OPC/PPC)	Initial Setting Time	IS 4031 (Part 5)	30 min to 300 min
		Final Setting time	IS 4031 (Part 5)	100 min to 600 min
		Compressive strength	IS 4031 (Part 6)	10 N/mm ² to 80 N/mm ²
		Soundness (Le-Chattalier method)	IS 4031 (Part 3)	0.5 mm to 10 mm
		Blain air permeability	IS 4031(Part 2)	100 m ² /kg to 600 m ² /kg
		Density	IS 4031 (Part 11)	2.0 g/cc to 2.7 g/cc
II.	SOIL & ROCK			
1.	Soil	Grain Size analysis	IS 2720 ((Part 4)	75 µm to 40 mm
		Liquid limit	IS 2720 ((Part 5)	25 % to 80 %
		Plastic Limit	IS 2720 (Part 5)	5 % to 50%
		Specific Gravity	IS 2720 (Part 3)	2.0 to 3.0
		Light Compaction	IS 2720 (Part 7) MDD OMC	1 g/cc to 3 g/cc 5 % to 40 %
		Heavy Compaction	IS 2720 (Part 8) MDD OMC	1.4 g/cc to 3 g/cc 5 % to 40 %
		California Bearing Ratio	IS 2720 (Part 16)	1 % to 60 %