

Laboratory **Shreeji Technical Consultancy Service, Plot No.-12, Sitaram Nagar, Bhavnagar Road, Botad, Gujarat**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6448** Page 1 of 2

Validity **30.10.2017 to 29.10.2019** Last Amended on --

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

### MECHANICAL TESTING

<b>I. BUILDING MATERIALS</b>				
1.	<b>Bituminus Mix</b>	Marshall Stability	ASTM D 6927	200 kg to 2000 Kg
		Marshall Flow test	ASTM D 6927	1.00 mm to 6.2 mm
2.	<b>Concrete Cube</b>	Compressive strength	IS 516	10 N/mm <sup>2</sup> to 70 N/mm <sup>2</sup>
		Slump	IS 1199	1 mm to 300 mm
3.	<b>Aggregate:</b>			
a.	<b>Coarse Aggregate</b>	Grading of Aggregates	IS 2386 (Part-1)	4.75mm to 90mm (0.1% to 100%)
		Specific Gravity	IS 2386 (Part-3)	1.50 to 3.50
		Water Absorption	IS 2386 (Part-3)	0.5% to 5%
		Flakiness Index	IS 2386 (Part-1)	5% to 40%
		Elongation Index	IS 2386 (Part-1)	5% to 40%
		Impact value	IS 2386 (Part-4)	5% to 50%
		Crushing Value	IS 2386 (Part-4)	1% to 60%
		Abrasion value	IS 2386 (Part-4)	5% to 50%
b.	<b>Fine Aggregate</b>	Sieve analysis	IS 2386 (Part-1)	150 microns to 10 mm (0.1% to 100%)
		Specific gravity	IS 2386 (Part-3)	1.50 to 3.50
		Water Absorption	IS 2386 (Part-3)	0.5% to 5%
		Material Finer than 75 micron	IS 2386 (Part-2)	0.1% to 3%
4.	<b>Paver Block</b>	Compressive strength	IS 15658 (Annex-D)	5 N/mm <sup>2</sup> to 60 N/mm <sup>2</sup>
		Water absorption	IS 15658 (Annex-C)	1 % to 15 %
5.	<b>Bricks</b>	Dimension	IS 1077	L=4500 mm to 4700 mm W=2100 mm to 2300mm H=1300 mm to 1500 mm
		Water absorption	IS 3495 (Part-2)	2% to 25%
		Compressive strength	IS 3495 (Part-1)	2.5 N/mm <sup>2</sup> to 20 N/mm <sup>2</sup>
		Efflorescence	IS 3495 (Part-3)	Qualitative

**Laboratory** Shreeji Technical Consultancy Service, Plot No.-12, Sitaram Nagar,  
 Bhavnagar Road, Botad, Gujarat  
**Accreditation Standard** ISO/IEC 17025: 2005  
**Certificate Number** TC-6448 **Page 2 of 2**  
**Validity** 30.10.2017 to 29.10.2019 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	<b>SOIL &amp; ROCK</b>			
1.	<b>Soil</b>	Grain size analysis	IS 2720 (Part-4)	75 microns to 40mm (1% to 100%)
		Plastic Limit	IS 2720 (Part-5)	5% to 120%
		Liquid Limit	IS 2720 (Part-5)	15% to 40%
		Light Compaction	IS 2720 (Part-7)	MDD :1g/cc to 2.10g/cc OMC:5% to 40%
		Heavy Compaction	IS 2720 (Part-8)	MDD :1g/cc to 2.10g/cc OMC: 2% to 30%
		C.B.R. Test	IS 2720 (Part-16)	1% to 60%
		# Direct shear Test	IS 2720 (Part 13)	C = Up to 3 kg/cm <sup>2</sup> Φ = 1° to 45°