

Laboratory Shreyas Material Testing Lab, Vejpur, Taluka-Desar, Dist- Vadodara, Vadodara, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8089

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Validity 19.11.2018 to 18.11.2020

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
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MECHANICAL TESTING

I. BUILDING MATERIALS				
1.	Cement (OPC)	Standard Consistency	IS 4031 (Part 4): 1988 RA 2014	25% to 40 %
		Initial Setting Time	IS 4031 (Part 5)-1988, RA 2014	30 Min. to 250 Min.
		Final Setting Time		100 Min. to 700 Min.
		Compressive Strength	IS 4031 (Part 6)-1988, RA 2014	10 N/mm ² -80 N/mm ²
		Soundness by Le-Chatilier method	IS 4031 (Part 3)-1988, RA 2014	0.5 mm to 10 mm
		Fineness by Blain's Method	IS 4031 (Part 2)-1996, RA 2014	100 m ² /kg to 600 m ² /kg
2.	Concrete	Compressive Strength	IS 516-1959, RA 2013	10 N/mm ² to 80 N/mm ²
3.	Bricks	Compressive Strength	IS 3495 (Part 1) -1992, RA 2016	2.5 N/mm ² to 20 N/mm ²
		Water Absorption	IS 3495 (Part 2) -1992, RA 2016	2% to 25 %
		Efflorescence	IS 3495-1992 (Part 3), RA 2016 2	Qualitative
		Dimensions	IS 1077: 1992 RA 2016	L: 4400 to 4800 mm W: 2000 to 2300 mm H: 1200 to 1500 mm
6.	Paver Block	Compressive Strength	IS 15658-2006, RA 2017, Annex D	5 N/mm ² to 80 N/mm ²
		Water Absorption	IS 15658-2006, RA 2017, Annex C	0.5% to 20 %
7.	Natural Building Stone	Compressive Strength	IS 1121-1959, RA 2013	100 kg/cm ² to 5000 kg/cm ²
		Water Absorption	I.S 1124 – 1974	0.1% to 2 %
8.	Bitumen	Specific Gravity	I.S 1202 – 1978 (RA 2013)	0.98 to 1.102
		Ductility	I.S 1208 – 1978 (RA 2014)	25 to 05 cm

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		Penetration	I.S 1203 – 1978 (RA 2013)	35 (1/10mm) to 100 (1/10mm)
		Softening Point	I.S 1205 – 1978 (RA 2014)	20 °C to 65 °C
		Absolute Viscosity	I.S 1206 (Part-2) - 1978 (RA 2014)	800 to 4800 Poise
		Kinematics Viscosity	I.S 1206 (Part-3) - 1978 (RA 2014)	250 Cst to 700 Cst
9.	Bitumen Mix	Binder Content	IRC SP-11 1984 Appendix 5 Clause C	1% to 10%
		Marshal Stability	ASTM D 6927 - 15	600 kg to 2500 kg
		Marshall Flow Test	ASTM D 6927 - 15	1 mm to 10 mm
		Density	ASTM D 2726 - 17	1.5 g/cc to 3.5 g/cc