

Laboratory	Shree Soil & Material Testing Laboratory, K1-7/2A, Phase 1, G.I.D.C., V.U. Nagar, Vithal Udyognagar INA, Anand, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	09.03.2015
Certificate Number	T-3325	Valid Until	08.03.2017
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	BUILDING MATERIALS			
1.	Hardened Concrete	Compressive strength	IS 516: 1959 (RA 2008)	10 N/mm ² to 80 N/mm ²
2.	Paver Block	Compressive strength	IS 15658: 2006	5 N/mm ² to 65 N/mm ²
3.	Burnt Clay Bricks	Compressive strength	IS 3495 (Part 1): 1992 (RA 2011)	3.5 N/mm ² to 15.0 N/mm ²
		Water absorption	IS 3495 (Part 2): 1992 (RA 2011)	2 % to 25 %
		Dimension	IS 1077: 1992 (RA 2011)	L=4500 mm to 4700 mm W=2100 mm to 2300 mm H=1300 mm to 1500 mm
4.	Aggregates (Coarse/Fine)	Sieve analysis	IS 2386 (Part 1): 1963 (RA 2011)	75 μ to 4.75 mm
		Sieve analysis	IS 2386 (Part 1): 1963 (RA 2011)	4.75 mm to 125 mm
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2011)	2 % to 40 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2011)	2 % to 40 %
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	1.5 to 4.0
		Water absorption	IS 2386 (Part 3): 1963 (RA 2011)	1 % to 10 %
	Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 50 %	
5.	Bitumen	Softening Point	IS 1205: 1978 (RA 2004)	40 °C to 60 °C
		Penetration	IS 1203: 1978 (RA 2004)	25 to 100
		Ductility	IS 1208: 1978 (RA 2004)	40 cm to 100 cm

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Bitumen	Absolute Viscosity	IS 1206: 1978 (RA 2004)	360 Poise to 4000 Poise
		Kinematic viscosity	IS 1206: 1978 (RA 2004)	60 cst to 600 cst
6.	Cement (OPC/PPC)	Consistency	IS 4031 (Part 4): 1988 (RA 2013)	25 % to 40 %
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	5 minute to 250 minute
		Final Setting time	IS 4031 (Part 5): 1988 (RA 2013)	30 minute to 600 minute
		Compressive strength	IS 4031 (Part 6): 1988 (RA 2013)	10 N/mm ² to 80 N/mm ²
		Soundness with Le-Chatelier method	IS 4031 (Part 3): 1988 (RA 2013)	0.05 mm to 10 mm

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