

Laboratory	Stern Testing & Consultancy Private Limited, Plot No. G/2049, Metoda GIDC, Kishan Gate, Ta. Lodhika, Distt. Rajkot, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	08.06.2015
Certificate Number	T-3465	Valid Until	07.06.2017
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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.	Fine Aggregate (Sand)	Fineness Modulus by Gradation	IS 2386 (Part 1): 1963 (RA 2011)	1.5 to 3.5
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	2 to 4
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2011)	1.2 to 2.5
		Silt Content	IS 2386 (Part 1): 1963 (RA 2011)	1 % to 5 %
2.	Coarse Aggregates	Gradation	IS 2386 (Part 1): 1963 (RA 2011)	4.75 mm to 80 mm
		Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	2 to 4
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2011)	0.5 % to 5 %
		Flakiness	IS 2386 (Part 1): 1963 RA 2011)	5 % to 70 %
		Elongation	IS 2386 (Part 1): 1963 (RA 2011)	5 % to 70 %
		Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	5 % to 50 %
		Abrasion Value	IS 2386 (Part 4): 1963 (RA 2011)	5 % to 50 %
		Soundness Test	IS 2386 (Part 5): 1963 (RA 2011)	0.1 % to 25 %
3.	Cement (OPC)	Consistency Test	IS 4031 (Part 4): 1988 (RA 2014)	25 % to 50 %
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2014)	60 min to 150 min
		Final Setting Time	IS 4031 (Part 5): 1988 (RA 2014)	200 min to 800 min
		Fineness (Blain Air Permeability Method) (OPC)	IS 4031 (Part 2): 1988 (RA 2014)	200 m ² /kg to 400 m ² /kg

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	Cement (OPC)	Compressive Strength (28 Days)	IS 4031 (Part 6): 1988 (RA 2014)	20 N/mm ² to 70 N/mm ²
		Soundness Test	IS 4031 (Part 3): 1988 (RA 2014)	0.5 mm to 4 mm
4.	Concrete	Compressive Strength	IS 516 (Part 1): 1982 (RA 2013)	50 kg/cm ² to 800 kg/cm ²
5.	Bitumen	Penetration Test	IS 1203: 1978 (RA 2004)	30 to 100
		Ductility Test	IS 1208: 1978 (RA 2004)	50 cm to 100 cm
		Softening Point	IS 1205: 1978 (RA 2004)	30 °C to 65 °C
		Specific Gravity	IS 1202: 1978 (RA 2004)	0.95 to 1.05
6.	Brick	Dimension & Tolerance	IS 1077: 1922 (RA 2002)	L 4000 mm to 5000 mm W 1500 mm to 2500 mm H 1000 mm to 1500 mm
		Compressive Strength	IS 3495 (Part 1): 1992 (RA 2007)	2 N/mm ² to 10 N/mm ²
		Water Absorption	IS 3495 (Part 2): 1992 (RA 2007)	10 % to 30 %
		Efflorescence	IS 3495 (Part 3): 1992 (RA 2007)	Qualitative (Visual)
II. MECHANICAL PROPERTIES OF MATERIALS				
1.	Steel	Ultimate Tensile Strength	IS 1608: 2005 IS 1786: 2008	160 N/mm ² to 1000 N/mm ²
		Elongation	IS 1608: 2005 IS 1786: 2008	5 % to 30 %

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III. SOIL & ROCK				
1.	Soil	Grain Size Analysis	IS 2720 (Part 4): 1985 (RA 2007)	0.075 mm to 10 mm
		Atterberg Limit	IS 2720 (Part 5): 1985 (RA 2005)	
		LL		10 % to 80 %
		PL		1 % to 40 %
		Compaction		
		Light	IS 2720 (Part 7 & 8): 1985 (RA 2005)	MDD 1.3 gm/cc to 3 gm/cc OMC 5 % to 30 %
		Heavy		MDD 1.5 gm/cc to 3 gm/cc OMC 5 % to 30 %
		CBR	IS 2720 (Part 16): 1987 (RA 2007)	1 % to 100 %

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