

<b>Laboratory</b>	<b>SBP Material Testing Laboratory, 6, 7, 11 &amp; 12, Vraj-Vihar Apartment, Subhanpura, Vadodara, Gujarat</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Mechanical Testing</b>	<b>Issue Date</b>	<b>19.12.2014</b>
<b>Certificate Number</b>	<b>T-3242</b>	<b>Valid Until</b>	<b>18.12.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. BUILDINGS MATERIALS</b>				
<b>1.</b>	<b>Fine Aggregate</b>	Fineness Modulus	IS 2386 (Part 1): 1963 (RA 2011)	1.00 to 4.00
		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 %
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2011)	1 kg/lit to 2.5 kg/lit
		Finer than 75 micron	IS 2386 (Part 1): 1963 (RA 2011)	0.10 % to 20 %
<b>2.</b>	<b>Coarse Aggregate</b>	Size and Grading of Aggregates	IS 2386 (Part 1): 1963 (RA 2011)	80 mm to 2.36 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 Index	IS 2386 (Part 1): 1963 (RA 2011)	1 % to 50 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2011)	1 % to 50 %
		Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 50 %
		Crushing Value	IS 2386 (Part 4): 1963 (RA 2011)	1 % to 50 %
<b>3.</b>	<b>Ordinary Portland Cement (33, 43, 53 Grade) Portland Pozzolana Cement</b>	Standard Consistency	IS 4031 (Part 4): 1988 (RA 2013)	20 % to 50 %
		Initial Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	5 minutes to 250 minutes
		Final Setting Time	IS 4031 (Part 5): 1988 (RA 2013)	50 minutes to 700 minutes
		Soundness by Le-Chatelier	IS 4031 (Part 3): 1988 (RA 2013)	0.5 mm to 10 mm
		Compressive Strength	IS 4031 (Part 6): 1988 (RA 2013)	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
		Fineness by Dry Sieving	IS 4031 (Part 1): 1996 (RA 2013)	0.5 % to 10 %

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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
4.	<b>Hardened Concrete Cubes</b>	Compressive Strength	IS 516: 1959 (RA 2008)	5 N/mm <sup>2</sup> to 40 N/mm <sup>2</sup>
5.	<b>Bricks (Burnt Clay)</b>	Dimensions	IS 1077: 1992 (RA 2011)	100 mm to 5000 mm
		Water Absorption	IS 3495 (Part 2): 1992 (RA 2011)	1 % to 30 %
		Compressive Strength	IS 3495 (Part 1): 1992 (RA 2011)	3.5 N/mm <sup>2</sup> to 12.5 N/mm <sup>2</sup>
		Efflorescence	IS 3495 (Part 3): 1992 (RA 2011)	Visual

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