

<b>Laboratory</b>	<b>Ambile Testing &amp; Research Labs, 122, Himcity, Sitapur Road, Lucknow, Uttar Pradesh</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Mechanical Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-3496</b>	<b>Valid Until</b>	<b>20.07.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 2</b>

<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.</b>	<b>BUILDINGS MATERIALS</b>			
<b>1</b>	<b>Bricks</b>	Compressive Strength	IS 3495 (Part 1): 1992 (RA 2011)	2 N/mm <sup>2</sup> to 25 N/mm <sup>2</sup>
		Water absorption	IS 3495 (Part 2): 1992 (RA 2011)	5 % to 35 %
		Efflorescence	IS 3495 (Part 3): 1992 (RA 2011)	Qualitative (Visual)
		Dimension	IS 1077: 1992 (RA 2011)	L: 4500 mm to 4800 mm W: 2000 mm to 2500 mm H: 1200 mm to 1600 mm
<b>2.</b>	<b>Aggregate (Coarse)</b>	Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2011)	4.75 mm to 40 mm
		Crushing Value	IS 2386 (Part 4): 1963 (RA 2011)	10 % to 50 %
		Impact Value	IS 2386 (Part 4): 1963 (RA 2011)	10 % to 50 %
		Abrasion Value	IS 2386 (Part 4): 1963 (RA 2011)	10 % to 50 %
		10% fine value	IS 2386 (Part 4): 1963 (RA 2011)	50 kN to 300 kN
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2011)	1.0 kg/l to 3.0 kg/l
		Flakiness Index	IS 2386 (Part 1): 1963 (RA 2011)	5 % to 50 %
		Water Absorption	IS 2386(Part 3): 1963 (RA 2011)	0.1 % to 5 %
		Elongation Index	IS 2386 (Part 1): 1963 (RA 2011)	5 % to 50 %

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<b>3.</b>	<b>Aggregate (Fine)</b>	Specific Gravity	IS 2386 (Part 3): 1963 (RA 2011)	1 to 3
		Water Absorption	IS 2386 (Part 3): 1963 (RA 2011)	0.1 % to 5 %
		Sieve Analysis	IS 2386 (Part 1): 1963 (RA 2011)	4.75 mm to 0.075 mm
		Bulk Density	IS 2386 (Part 3): 1963 (RA 2011)	1 kg/l to 3 kg/l
<b>II. SOIL AND ROCK TESTING</b>				
<b>1.</b>	<b>Soil</b>	Proctor Compaction Test	IS 2720 (Part 7 & 8): 1980 (RA 2010)	MDD: 1.5 g/cc to 2.5 g/cc OMC: 5 % to 30 %
		Grain Size Analysis	IS 2720 (Part 4): 1985 (RA 2010)	0.002 mm to 100 mm
		Plastic limit	IS 2720 (Part 5): 1985 (RA 2010)	10 % to 25 %
		Liquid limit	IS 2720 (Part 5): 1985 (RA 2010)	20 % to 60 %

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