

Laboratory	Delhi Test House - Patna, Vatikapuri, Ambedkar Path, Rukunpura, Patna, Bihar		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Mechanical Testing	Issue Date	29.11.2013
Certificate Number	T-2721	Valid Until	28.11.2015
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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
BUILDING MATERIALS				
1	Burnt clay Building Bricks/ Fly Ash Bricks	Dimension	IS:1077-1992 Amd.1 RA 2011 IS:13757-1993 amd 1 RA 2007	H- 800-2500mm W-1800-4000mm L-3000-6000mm
		Water absorption	IS:3495 (Part-2)-1992 RA 2007	1-20%
		Efflorescence	IS:3495 (Part -3)-1992 RA 2007	Visual
		Compressive strength	IS:3495 (Part -1)-1992 RA 2007	5-39Mpa
2	Soil	Liquid limit	IS:2720 (Part -5)-1985 RA 2010	15-50%
		Plastic limit	IS:2720 (Part -5)-1985 RA 2010	10-30%
		MDD & OMC by Light Compaction	IS:2720 (Part -7)-1980 Amd.2 RA 2011	MDD 1.2-2.5 g/cc OMC 1-20%
		MDD & OMC by Heavy Compaction	IS:2720 (Part -8)1983 RA 2011	MDD 1.2-2.5 g/cc OMC 1-20%
3	Aggregate (Coarse / Fine)	Flakiness Index	IS:2386 (Part -1)-1963 Amd.4 RA 2011	2- 50%
		Elongation Index	IS:2386 (Part -1)-1963 Amd.3 RA 2007	2-50 %
		Bulk Density	IS:2386 (Part -3)1963 RA 2011	1-2.5 gm/cm ³
		Specific Gravity	IS:2386 (Part -3) RA 2011	2-3
		Water Absorption	IS:2386 (Part -3) RA .2011	0.2-5%
		Crushing Value	IS:2386 (Part -4)-1963 Amd.3 RA 2011	5-60%
		Impact Value	IS:2386 (Part -4)-1963 Amd.3 RA 2011	5-60%

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		Los Angles, Abrasion	IS:2386 (Part -4)-1963 Amd.3 RA 2011	5-60%
		10% Fine Value	IS:2386 (Part -4)-1963 Amd.3 RA 2011	5-40 ton
		Soundness	IS:2386 (Part -5)-1963 RA 2011	0.2 -25%
		Sieve Analysis	IS:2386 (Part -1)-1963 Amd.3 RA 2011	75 μ -10mm 63-4.75mm
		Bulking of sand	IS:2386 (Part -3)-1963 RA 2011	4-20%
4	Concrete Cube/ concrete core	Compressive strength	IS: 516-1959, Amd. 2 RA 2008	5-80 Mpa
5	Steel / Structural Steel	Tensile Strength	IS:1608-2005 Amd.1, RA 2006	200-800 N/mm ²
		Yield Stress	IS:1608-2005 Amd.1, RA 2006	200-800 N/mm ²
		Elongation %	IS: 1608-2005 Amd.1, RA 2006	5-45%
		Bend	IS:1599-1985 RA 2006	Mandrel size (mm) 16, 20, 24, 30, 50, 60, 72, 80, 100, 34, 32, 162, 148, 120, 130
		Rebend	IS:1786-2008, Amd.-1	Mandrel size (mm) 16, 20, 24, 30, 50, 60, 72, 80, 100, 34, 32, 162, 148, 120, 130
		Mass per meter	IS:1786-2008 Amd.-1	0.001kg -15 kg

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