

Laboratory	North East Soil Testing (NEST), Ujan Abhoynagar, South Bank of Bazar Lake, Agartala, Tripura (West)		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	22.04.2014
Certificate Number	T-2116	Valid Until	21.04.2016
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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
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I. BUILDING MATERIALS

1.	Concrete	Compressive strength	IS 516-1959, RA 2008	8 to 80 N/mm ²
2.	Burnt Clay Bricks	Compressive Strength	IS 3495 (Part-I) 1992, RA 2011	10 to 90 N/mm ²
		Efflorescence	IS 3495 (Part-III) 1992, RA 2011	Visual
		Water absorption	IS 3495 (Part-II) 1992, RA 2011	2% to 25%
3.	Aggregate	Sieve Analysis	IS 2386 (Part-I) 1963, RA 2011	75 micron to 125 mm
		Flakiness Index	IS 2386 (Part-I) 1963, RA 2011	2% to 40%
		Elongation	IS 2386 (Part-I) 1963, RA 2011	2% to 40%
		Specific Gravity	IS 2386 (Part-III) 1963, RA 2011	1.5 to 4.0
		Water absorption	IS 2386 (Part-III) 1963, RA 2011	1% to 10%
		Crushing Value	IS 2386 (Part-IV) 1963, RA 2011	1% to 60%
		Impact Value	IS 2386 (Part-IV) 1963, RA 2011	1% to 50%
		10% Fine	IS 2386 (Part-IV) 1963, RA 2011	1% to 60%
		Silt Content	IS 2386 (Part-I) 1963, RA 2011	1% to 5%

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4.	Cement	Consistency	IS 4031 (Part-IV) 1988, RA 2009	25% to 40%
		Initial Setting Time	IS 4031 (Part-V) 1988, RA 2009	5 min to 250 min
		Final Setting Time	IS 4031 (Part-V) 1988, RA 2009	30 min to 700 min
		Compressive strength	IS 4031 (Part-VI) 1988, RA 2009	10 N/mm ² to 80 N/mm ²
		Soundness by Le-Chatelier Method	IS 4031 (Part-III) 1988, RA 2009	0.05 mm to 10 mm
		Fineness by dry sieving (% retained)	IS 4031 (Part-I) 1988, RA 2010	0 to 10%
5.	Soil	Grain Size Analysis	IS 2720 (Part-IV) 1985, RA 2010	75 micron to 40 mm
		Liquid Limit	IS 2720 (Part-V) 1985, RA 2010	25% to 120%
		Plastic Limit	IS 2720 (Part-V) 1985, RA 2010	15% to 40%
		Light Compaction	IS 2720 (Part-VII) 1985, RA 2011	MDD: 1 to 2.50 gm/cc OMC: 5% to 40.0%
		California Bearing ratio	IS 2720 (Part-XVI) 1985, RA 2011	1% to 60%
		Specific Gravity	IS 2720 (Part-III) 1981	2.0 to 2.9
		Moisture content	IS 2720 (Part-II) 1973	2% to 25%

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