

Laboratory **M S Test House, Abhiyanta Nagar, Z-Sector, Plot No. 09, Ashiyana Nagar, Patna, Bihar**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7018**

Page 1 of 2

Validity **12.03.2018 to 11.03.2020**

Last Amended on --

Sl.	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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MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Ordinary Portland Cement/Portland (OPC) Pozzolana Cement (PPC)	Initial Set Time	IS 4031 (Part 5)	30 minutes to 600 minutes
		Final Set Time	IS 4031 (Part 5)	30 minutes to 600 minutes
		Compressive Strength	IS 4031 (Part 6)	5 MPa to 80 MPa (Upto 2000 kN)
		Fineness by Blain's Air Permeability	IS 4031 (Part 2)	150 m ² /kg to 400 m ² /kg
		Fineness by Dry Sieving	IS 4031 (Part 1)	0.05 % to 100 %
		Density	IS 4031 (Part 11)	2 g/cm ³ to 3.5 g/cm ³
		Consistency	IS 4031 (Part 4)	20 % to 40 %
		Dry Shrinkage	IS 4031 (Part 10)	0.01 % to 5 %
2.	Building Bricks Clay/Fuel Ash Lime	Dimension	IS 1077	1220 mm to 6000 mm
		Water Absorption	IS 3495 (Part 2)	1 % to 40 %
		Efflorescence	IS 3495 (Part 3)	Qualitative
		Compressive Strength	IS 3495 (Part 1)	5 MPa to 40 MPa (Upto 2000 kN)
3.	Coarse Aggregate	Flakiness index	IS 2386 (Part 1)	5 % to 50 %
		Elongation Index	IS 2386 (Part 1)	5 % to 50 %
		Bulk density	IS 2386 (Part 3)	1 kg/l to 4 kg/l
		Specific gravity	IS 2386 (Part 3)	1.5 to 5
		Water absorption	IS 2386 (Part 3)	0.1 % to 5 %
		Crushing value	IS 2386 (Part 4)	5 % to 50 %
		Impact value	IS 2386 (Part 4)	5 % to 50 %
		10% fines value	IS 2386 (Part 4)	5 T to 70 T
		Soundness test	IS 2386 (Part 5)	0.1 % to 25 %
		Sieve analysis	IS 2386 (Part 1)	0.1 % to 100 % (4.75mm to 63 mm)
	Organic impurities	IS 2386 (Part 2)	Qualitative	

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Page 2 of 2

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Material finer than 75 µm	IS 2386 (Part 1)	0.1 % to 10 %
		Clay Lumps	IS 2386 (Part 2)	0.1 % to 10 %
		Coal and lignite	IS 2386 (Part 2)	0.1 % to 2 %
4.	Fine aggregate	Bulk density	IS 2386 (Part 3)	1 kg/l to 4 kg/l
		Specific gravity	IS 2386 (Part 3)	1.5 to 5
		Water absorption	IS 2386 (Part 3)	0.1 % to 5 %
		Soundness	IS 2386 (Part 5)	0.1 % to 25 %
		Sieve analysis	IS 2386 (Part 1)	0.1 % to 100 % 75 u to 4.75 mm
		Organic impurities	IS 2386 (Part 2)	Qualitative
		Material finer than 75 µm	IS 2386 (Part 1)	0.1 % to 10 %
		Clay Lumps	IS 2386 (Part 2)	0.1 % to 10 %
		Coal and lignite	IS 2386 (Part 2)	0.1 % to 2 %
5.	Hardened Concrete	Compressive strength	IS 516	5 N/mm ² to 80 N/mm ² (Upto 2000 kN)
6.	Paver Block	Compressive strength	IS 15658	5 N/mm ² to 90 N/mm ² (Upto 2000 kN)