Accreditation Standard ISO/IEC 17025: 2005

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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test		against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

I.	METALS & ALLOYS	3		
1.	Ferrous & Non- Ferrous	Tensile Testing		
		Tensile Strength	IS 1608	40 kN to 1000 kN
		Yield Strength		40 kN to 1000 kN
		% of Elongation	IS 1786	15 % to 40 %
		% of reduction		40 % to 60 %
		Bend Test	IS 1599	Diameter of Mandrel 16 mm, 25 mm, 36 mm, 32 mm, 24 mm, 50 mm, 45 mm, 32 mm, 60 mm, 130 mm, 145 mm, 155 mm, 220 mm, 225 mm, 280 mm
		Rebend Test	IS 1786	Diameter of Mandrel 16 mm, 25 mm, 36 mm, 32 mm, 24 mm, 50 mm, 45 mm, 32 mm, 60 mm, 130 mm,145 mm, 155 mm, 220 mm, 225 mm, 280 mm
		Nominal mass (TMT)	IS 1786	0.1 kg/m to 10 kg/m
2.	Steel (Structural Steel, Plate, Pipes & Tubes)	Dimension Depth Flange Width Thickness of web Thickness of Flange	IS 808	4 mm to 250 mm
3.	Welded Steel Plate & Pipe	Transverse Tensile strength	ASME (Sec IX) IS 3600 (Part 3)	40 N/mm ² to 1000 N/mm ²

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Tensile Testing Longitudinal Tensile testing on Cylindrical test piece	IS 3600 (Part 4)	
		Tensile Strength		40 kN to 1000 kN
		Yield/ Proof Strength		40 kN to 1000 kN
		% of Elongation		15 % to 40 %
		Transverse Side Bend Test	ASME (Sex IX) IS 3600 Part 6	Diameter of Mandrel 16 mm, 25 mm, 36 mm, 32 mm, 24 mm, 50 mm, 45 mm, 32 mm, 60 mm, 130 mm, 145 mm, 155 mm, 220 mm, 225 mm, 280 mm
II.	BUILDING MATERIA	AL		
1.	Aggregate (Fine)	Sieve Analysis	IS 2386(Part 1)	10 mm to 0.150 mm (Upto 100 %)
		Specific gravity	IS 2386(Part 3)	2 to 4
		Water absorption	IS 2386 (Part 3)	0.1 % to 10 %
		Bulk Density(Loose)	IS 2386(Part 3)	500 kg/m ³ to 3000 kg/m ³
2.	Aggregate	Bulk Density(Compacted) Sieve Analysis	IS 2386(Part 3) IS 2386(Part 1)	500 kg/m ³ to 3000 kg/m ³ 125 mm to 4.75 mm
۷.	Aggregate (Coarse)	Sieve Arialysis	13 2300(Part 1)	(Upto 100 %)
	(Godinos)	Specific gravity	IS:2386(Part 3)	2 to 4
		Water absorption	IS 2386 (Part 3)	0.1% to 10%
		Flakiness Index	IS 2386(Part 1)	1 % to 50 %
		Elongation Index	IS 2386(Part 1)	1 % to 50 %
		Impact Value	IS 2386(Part 4)	1 % to 50 %
		Crushing Value	IS 2386(Part 4)	1 % to 50 %

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Los Angles Abrasion Value	IS 2386(Part 4)	1 % to 60 %
		10% Fine Value	IS 2386(Part 4)	1 t to 50 t
3.	Cement OPC, PPC, PSC	Consistency, %	IS:4031(Part 4)	20 % to 40 %
		Initial Setting Time	IS 4031(Part 5)	30 min to 500 min
		Final Setting Time	IS 4031(Part 5)	30 min to 600 min
		Fineness by Blain Air Permeability	IS 4031(Part 2)	200 m ² /kg to 600 m ² /kg
		Soundness by Lechatlier	IS 4031(Part 3)	0.1mm to10 mm
		Soundness by Autoclave	IS 4031(Part 3)	0.01 % to 2.0 %
		Compressive Strength, N/mm ²	IS 4031(Part 6)	5 N/mm ² to 80 N/mm ²
4.	Hardened concrete	Compresive Strenght	IS 516	1 N/mm ² to 80 N/mm ²
5.	Burnt Clay	Dimention	IS 1077	20 mm to 6000 mm
	Building	Water Absorption	IS 3495 (Part 2)	1 % to 50 %
	Bricks\Fly Ash Bricks	Compressive strength N/mm ²	IS 3495 (Part 1)	1 N/mm ² to 20 N/mm ²
		Efflorescence	IS 3495 (Part 3)	Qualitative (Visual)
6.	Soil	Moisture Content	IS 2720(Part 2)	1 % to 65 %
		Liquid Limit	IS 2720(Part 5)	10 % to 200 %
		Plastic limit, %	IS 2720(Part 5)	NP to 80 %
		Specific gravity	IS 2720(Part 3/Sec-1)	2 to 4
		Sieve Analysis	IS 2720(Part 4)	0.075 mm to 125 mm (Upto 100 %)

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Compact Test:- Light Compaction	IS 2720(Part 7)	MDD 1.2 gm/cc to 3.0 gm/cc OMC 4 % to 30 %
		Compact Test:- Heavy Compaction	IS 2720(Part 8)	MDD 1.2 gm/cc to 3.0 gm/cc OMC 4 % to 30 %
		California Bearing Ratio	IS 2720(Part 16)	1 % to 50 %

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