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

## MECHANICAL TESTING

Ι.	BUILDING MATERI	ALS		
1.	Cement (OPC/PPC/PSC)	Consistency	IS 4031(Part 4) :1988 (Reaffirmed 2009) Amendment June 2013	20% to 40%
		Initial setting time	IS 4031(Part 5) :1988 (Reaffirmed 2009) Amendment June 2013	30 min to 300 min
		Final setting time	IS 4031(Part 5) :1988 (Reaffirmed 2009) Amendment June 2013	30 min to 600 min
		Compressive strength	IS 4031(Part 6) :1988 (Reaffirmed 2009)	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
		Fineness by Dry Sieving	IS 4031(Part 1) :1996 (Reaffirmed 2016)	0.5% to 10%
		Fineness by Blaine's air Permeability Method	IS 4031(Part 2) :1999 (Reaffirmed 2008)	250 m <sup>2</sup> /Kg to 500 m <sup>2</sup> /Kg
		Density	IS 4031(Part 11) :1988 (Reaffirmed 2009)	2.5 g/cc to 4 g/cc
 		Soundness	IS 4031(Part 3) :1988 (Reaffirmed 2014)	0.06 mm to 10 mm
2.	Hardened concrete (Cubes)	Compressive Strength	IS 516 :1959 (Reaffirmed 2013)	10 mm <sup>2</sup> to 80 N / mm <sup>2</sup>
3.	Hollow & Solid Concrete Blocks	Compressive Strength Dimensions Density Water Absorption	IS 2185(Part 1) :2010	1 N/mm2 to 20 N/mm2   50 mm to 600 mm   1000 Kg/m³ to 2500 Kg/m³   2% to 15%
4.	Fine Aggregates	Sieve Analysis	IS 2386 (Part 1) :1963 (Reaffirmed 2016)	0.1% to 100% (75 microns to 10 mm)
		Specific Gravity	IS 2386 (Part 3 ) :1963 (Reaffirmed 2016)	1.5 to 6
		Water Absorption	IS 2386 (Part 3 ) :1963 (Reaffirmed 2016)	0.1% to 10%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Limits of Detection
		Material finer than 75	IS 2386 (Part 1) :1963	3% to 15%
	•	microns	(Reaffirmed 2016)	0.40/.1.4000/
5.	Coarse	Sieve Analysis	IS 2386 (Part 1) :1963	0.1% to 100%
	Aggregates		(Reaffirmed 2016)	(4.75mm to 125 mm)
		Specific Gravity	IS 2386 (Part 3) :1963	1.5 to 4
			(Reaffirmed 2016)	50( ) 50 0(
		Flakiness Index	IS 2386 (Part 1) :1963	5% to 50 %
			(Reaffirmed 2016)	
		Elongation Index	IS 2386 (Part 1) :1963	5% to 50 %
			(Reaffirmed 2016)	
		Impact Value	IS 2386 (Part 4) :1963	5% to 60 %
			(Reaffirmed 2016)	
		Crushing Value	IS 2386 (Part 4 ) :1963	5% to 60 %
			(Reaffirmed 2016)	
		Water Absorption	IS 2386 (Part 3 ) :1963	0.1% to 5 0 %
			(Reaffirmed 2016)	
		10 % fine Value	IS 2386 (Part 4 ) :1963	50 kN to 300 kN
			(Reaffirmed 2016)	
6.	Bitumen	Ductility	IS 1208 :1978	75 cm to 100 cm
			(Reaffirmed 2009)	
		Penetration	IS 1208 :1978	50 ( 1/10)mm to 100
		L	(Reaffirmed 2009)	( 1/10)mm
		Softening Point	IS 1205 :1978	40° C to 60° C
			(Reaffirmed 2009)	
		Flash Point	IS 1209 :1978	100° C to 400° C
			(Reaffirmed 2009)	
		Fire Point	IS 1209 :1978	100° C to 400° C
			(Reaffirmed 2009)	
7.	Burnt Clay Bricks	Compressive Strength	IS 3495(Part 1) :1992	1.0 N/ mm <sup>2</sup> to 10 N/ mm <sup>2</sup>
			(Reaffirmed 2011)	
		Water Absorption	IS 3495(Part 2) :1992	5% to 30%
			(Reaffirmed 2011)	
		Efflorescence	IS 3495 (Part 3) :1992	Qualitative
			(Reaffirmed 2011)	
		Dimensions	IS 1077 :1992	1350 mm to 5000 mm
			(Reaffirmed 2011)	

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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
II.	MECHANICAL PROPOERTIES OF METALS			
1.	Steel	Nominal Mass	IS1786::2008 (Reaffirmed 2013) Amendment June 2017	1 kg/m to 12 kg/m
III.	SOIL & ROCK			
1.	Soil	Grain Size Analysis (Wet Analysis)	IS 2720 (Part 4) : 1985 (Reaffirmed 2015)	0.1% to 100% (75 microns to 10 mm)
		Grain Size Analysis (Dry Analysis )	IS 2720 (Part 4) : 1985 (Reaffirmed 2015)	0.1 to 100% (75 microns to 100 mm)
		Liquid Limit	IS 2720 (Part 5) : 1985 (Reaffirmed 2015)	25% to 80%
		Plastic Limit	IS 2720 (Part 5) : 1985 (Reaffirmed 2015)	5% to 50%
		Free swell Index	IS 2720 (Part 40 ) :1977 (Reaffirmed 2011)	10% to 100%
		Light Compaction MDD OMC	IS 2720 (Part 7 ) :1986 (Reaffirmed 2011)	1 g/cc to 2.5 g/cc 5% to 40 %
		Heavy Compaction MDD OMC	IS 2720 (Part 8 ) :1986 (Reaffirmed 2015)	1.4 g/cc to 2.6 g/cc 5% to 40%
		Moisture Content of Soil	IS 2720 (Part 2 ) :1985 (Reaffirmed 2015)	5 % to 20%