Laboratory	**Team Infrastructures, House No. 184/16, Pratap Nagar, Jaipur, Rajasthan**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**TC-7027** ***(in lieu of T-2897)***	**Page 1 of 3**	
Validity	**28.03.2018 to 27.03.2020**	**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
		MECHANICAL TESTING		
I.	**BUILDING MATERIALS**			
1.	**Fine Aggregate**	Sieve Analysis	IS 2386 (Part 1)-1963, (RA 2016)	4.75 mm to 150 µm
		Bulk Density	IS 2386 (Part 3)-1963, (RA 2016)	1.2 g/cc to 3.5 g/cc
		Specific gravity	IS 2386 (Part 3)-1963, (RA 2016)	1.2 to 3.5
		Water absorption	IS 2386 (Part 3)-1963, (RA 2016)	0.2% to 10%
2.	**Coarse Aggregate**	Sieve Analysis	IS 2386 (Part-1)-1963, (RA 2016)	4.75 mm to 125 mm
		Flakiness index	IS 2386 (Part 1)-1963, (RA 2016)	5% to 70%
		Elongation index	IS 2386 (Part 1)-1963, (RA 2016)	5% to 70%
		Specific gravity	IS 2386 (Part 3)-1963, (RA 2016)	1.2 to 3.5
		Water absorption	IS 2386 (Part 1)-1963, (RA 2016)	0.2% to 10%
		Impact value	IS 2386 (Part 4)-1963, (RA2016)	1% to 50%
		10% Fine Value	IS 2386 (Part 4)-1963, (RA 2016)	1 Ton to 50 Ton
		Crushing value	IS 2386(Part 4)-1963, (RA 2016)	1% to 50%
		Bulk Density	IS 2386 (Part 3)-1963, (RA 2016)	1.2 g/cc to 3.5 g/cc

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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
3.	**Concrete**	Workability by Slump	IS 1199-1959 (RA 2013)	10 mm to 250 mm
		Workability by Compaction Factor	IS 1199-1959 (RA 2013)	0.75 to 1.00
		Compressive strength	IS 516-1959 (RA 2013)	3 N/mm^2 to 88 N/mm^2
4.	**Concrete paver block**	Compressive strength	IS 15658 : 2006 (RA 2017)	5 N/mm^2 to 88 N/mm^2
		Water absorption	IS 15658 : 2006 (RA 2017)	1% to 20%
5.	**Brick**	Dimension and tolerance Length Width Height	IS 1077-1992 (RA 2011)	 3000 mm to 6000 mm 1500 mm to 2500 mm 500 mm to 2000 mm
		Compressive strength	IS 3495 (Part 1)-1992, (RA 2016)	2 N/mm^2 to 50 N/mm^2
		Water absorption	IS 3495 (Part 2)-1992, (RA 2016)	1% to 50%
		Efflorescence	IS 3495 (Part 3)-1992, (RA 2016)	Qualitative
6.	**Cement**	Consistency	IS:4031 (Part 4)-1988, (RA 2014)	10% to 35%
		Initial setting Time	IS:4031 (Part 5)-1988, (RA 2014)	10 Min to 250 Min
		Final setting Time	IS:4031 (Part-5)-1988, (RA 2014)	30 Min to 600 Min
		Fineness by Blains Air Permeability Method	IS:4031 (Part 2)-1999 (RA 2013)	100 m^2/kg to 500 m^2/kg
		Soundness by the Le-Chatelier Method	IS : 4031 (Part 3)-1988 (RA 2014)	0.1 mm to 10 mm
		Compressive strength	IS : 4031 (Part 6)-1988, (RA 2014)	1 N/mm^2 to 80 N/mm^2
		Fineness by dry sieving	IS: 4031(Part 1)-1996, (RA 2016)	1% to 10%
		Density	IS:4031(Part 11)-1988, (RA 2014)	2 g/cc to 4 g/cc

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Convenor

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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
II.	**SOIL & ROCK**			
1.	**Soil**	Specific Gravity	IS 2720 (Part 3) Sec. 1 / 2-1980, (RA 2016)	1 to 3
		Grain Size Analysis Dry Sieve Analysis Wet Sieve Analysis	IS 2720 (Part 4)-1985, (RA 2015) (Clause 3.0) (Clause 4.3)	75 mm to 4.75 mm 4.75 mm to 75 micron
		Atterberg's Limit Liquid Limit Plastic Limit	IS 2720 (Part 5)-1985, (RA 2015), (Clause 4.0)	 15% to 60% 5% to 60%
		Light compaction OMC MDD	IS 2720 (Part 7)-1980, (RA 2016)	 1% to 30% 1 g/cc to 4 g/cc
		Heavy compaction OMC MDD	IS 2720 (Part 8)-1983, (RA 2015)	 1% to 30% 1 g/cc to 4 g/cc
		California Bearing Ratio (CBR)	IS 2720 (Part 16)-1987, (RA 2016)	1% to 60%
		Free Swell Index	IS 2720 (Part 40)-1977, (RA 2016)	10% to 80%
		Water Content	IS 2720 (Part 2)-1973, (RA 2015)	0.1% to 40%
		Direct Shear	IS-2720 (Part 13)-1986, (RA 2016)	C : Upto 0.2 kg/cm^2 ϕ: 15° to 50 °

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