Laboratory	**Centre For Testing And Consultancy (Department of Civil Engineering), P.O-NIT Silchar, Silchar, Assam**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**TC-7834** **Page 1 of 2**
Validity	**11.09.2018 to 10.09.2020** **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 MATERIAL**			
1	**Fine Aggregate**	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 % (75 µm to 4.75 mm)
		Specific gravity	IS 2386 (Part 3)	1.5 to 3.5
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10.0 %
		Surface Moisture	IS 2386 (Part 3)	0.1 % to 35 %
2.	**Coarse Aggregate**	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 % (4.75 mm to 40 mm)
		Flakiness Index	IS 2386 (Part 1)	2.0 % to 40 %
		Elongation Index	IS 2386 (Part 1)	2.0 % to 40 %
		Specific gravity	IS 2386 (Part 3)	1.5 to 3.5
		Water absorption	IS 2386 (Part 3)	0.1 % to 10.0 %
		Surface moisture	IS 2386 (Part 3)	0.1 % to 35 %
		Impact Value	IS 2386 (Part 4)	2 % to 40 %
II.	**SOIL AND ROCK**			
1.	**Soil**	Water content	IS 2720 (Part 2)	5 % to 120 %
		Specific gravity	IS 2720 (Part 3/Sec 2)	1.5 to 3.5
		Grain size analysis	IS 2720 (Part 4)	0.1 % to 100 % (75 µm to 4.75 mm)
		Liquid Limit	IS 2720 (Part 5)	20 % to 120 %
		Plastic Limit	IS 2720 (Part 5)	1 % to 80 %
		Light compaction	IS 2720 (Part 7)	MDD: 1.4 g/cc to 2.2 g/cc OMC: 8 % to 40 %
		Heavy compaction	IS 2720 (Part 8)	MDD: 1.4 g/cc to 2.5 g/cc OMC: 5 % to 35 %
		Dry density by core cutter method (Field test)	IS 2720 (Part 29)	1.5 g/cc to 2.5 g/cc

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Convenor

Anuja Anand
Program Manager

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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
III.	**MECHANICAL PROPERTIES OF METALS**			
1.	**Ferrous and Non-Ferrous Metals and Alloys of Bar / Flat / Angle Deformed Bar**	Tensile strength	IS 1608 (Part 1)	100 N/mm^2 to 1000 N/mm^2
		Yield Stress		50 N/mm^2 to 1000 N/mm^2
		% of Elongation		3.0 % to 60 %

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