Laboratory	GEOsystems Research & Consultants (India) Pvt. Ltd., 6-B, Shahu Layout, Khadgaon Road, Wadi, Nagpur, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-7942	Page 1 of 2	
Validity	26.09.2018 to 25.09.20	20 Last Amended on	
SI. Product / Material	Specific Test Performed	Test Method Specification Range of Testing /	

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

MECHANICAL TESTING

BUILDING MATERI	ALS		
Aggregate - Fine	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 % (0.075 mm to 4.75 mm)
Aggregate - Coarse	Sieve Analysis	IS 2386 (Part 1)	0.1 % to 100 % (4.75 mm to 90 mm)
	Flakiness Index	IS 2386 (Part 1)	5 % to 40 %
	Elongation Index	IS 2386 (Part 1)	5 % to 40 %
	Impact Value		1 % to 50 %
	Crushing Value	IS 2386 (Part 4)	1 % to 60 %
	Abrasion Value - Los Angles	IS 2386 (Part 4)	5 % to 40 %
Cement (OPC/ PPC/ PSC)	Soundness by Le- chatelier Method	IS 4031 (Part 3)	0.1 mm to 10 mm
	Standard Consistency	IS 4031 (Part 4)	20 % to 40 %
	Setting Time (Initial)	IS 4031 (Part 5)	30 min. to 200 min.
	Setting Time (Final)	IS 4031 (Part 5)	100 min. to 600 min.
	Compressive Strength	IS 4031 (Part 6)	10 N/mm ² to 70 N/mm ²
Hardened Concrete Cube	Compressive Strength	IS 516	10 N/mm ² to 70 N/mm ²
SOIL AND ROCK			
Rock	Unconfined Compressive Strength	IS 9143	1 N/mm ² to 200 N/mm ²
	Point Load Strength	IS 8764	1 MN/m ² to 35 MN/m ²
Soil	Moisture content	IS 2720 (Part 2)	0.1 % to 75 %
	Sieve Analysis	IS 2720 (Part 4)	0.1 % to 100 % (0.075 mm to 100 mm)
	Liquid Limit	IS 2720 (Part 5)	15 % to 70 %
			5 % to 50 %
			1 % to 100 %
	Aggregate - Fine Aggregate - Coarse Cement (OPC/ PPC/ PSC) Hardened Concrete Cube SOIL AND ROCK Rock	Aggregate - CoarseSieve AnalysisFlakiness Index Elongation Index Impact Value Crushing Value Abrasion Value - Los AnglesCement (OPC/ PPC/ PSC)Soundness by Le- chatelier Method Standard Consistency Setting Time (Initial) Setting Time (Final) Compressive StrengthHardened Concrete CubeCompressive Strength Soil AND ROCKRockUnconfined Compressive Strength Point Load StrengthSoilMoisture content	Aggregate - FineSieve AnalysisIS 2386 (Part 1)Aggregate - CoarseSieve AnalysisIS 2386 (Part 1)Flakiness IndexIS 2386 (Part 1)Elongation IndexIS 2386 (Part 1)Impact ValueIS 2386 (Part 1)Impact ValueIS 2386 (Part 4)Crushing ValueIS 2386 (Part 4)Abrasion Value - LosIS 2386 (Part 4)AnglesSoundness by Le-(OPC/ PPC/ PSC)Soundness by Le-Cement (OPC/ PPC/ PSC)Soundness by Le-Compressive StrengthIS 4031 (Part 3)Compressive StrengthIS 4031 (Part 5)Setting Time (Initial)IS 4031 (Part 5)Compressive StrengthIS 4031 (Part 6)Hardened Concrete CubeCompressive StrengthSOIL AND ROCKUnconfined Compressive

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Vali	dity	26.09.2018 to 25.09.20	20 Last Amended on			
SI.	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.	High Strength Deformed Steel Bars	Mass per meter Tensile Strength Elongation Yield Stress	IS 1786 IS 1608 Part 1) IS 1608 (Part 1) IS 1608 (Part 1)	0.2 kg/m to 9.5 kg/m 250 N/mm ² to 1000 N/mm ² 5 % to 30 % 200 N/mm ² to 800 N/mm ²		