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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
		CHE	MICAL TESTING	
Ι.	METALS & ALLOYS	3		
1.	Ferrous Alloy			
A	Carbon steel (Low Carbon, Medium Carbon and High Carbon) and Low Alloy Steel	Carbon Silicon Manganese Phosphorus Sulfur Chromium Nickel Molybdenum Copper Vanadium Niobium Titanium	IS 8811	0.03 % to 1.2 % 0.02 % to 1.8 % 0.2 % to 2 % 0.008 % to 0.08 % 0.008 % to 0.08 % 0.01 % to 3 % 0.01 % to 4 % 0.008 % to 0.5 % 0.01 % to 0.3 % 0.007 % to 0.5 % 0.02 % to 0.25 % 0.005 % to 0.05 %
B.	Stainless steel	Carbon Silicon Manganese Phosphorus Sulfur Chromium Nickel Molybdenum Copper	IS 9879	$\begin{array}{c} 0.008 \% \text{ to } 0.45 \% \\ \hline 0.03 \% \text{ to } 2 \% \\ \hline 0.03 \% \text{ to } 2 \% \\ \hline 0.008 \% \text{ to } 0.1 \% \\ \hline 0.008 \% \text{ to } 0.1 \% \\ \hline 3 \% \text{ to } 25 \% \\ \hline 3 \% \text{ to } 20 \% \\ \hline 0.02 \% \text{ to } 4 \% \\ \hline 0.008 \% \text{ to } 0.5 \% \end{array}$

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		MECHAN	CAL TESTING	
I.	MECHANICAL PRO	PERTIES OF METALS		
1.	Ferrous Metals Hig	h Strength Deform Bar		
Α.	Ferrous Metals & HSDB Bar	Mass per meter Tensile strength 0.2 % Proof Stress/	IS 1786 IS 1608 (Part 1) IS 1608 (Part 1)	0.1 kg/m to 9.5 kg/m 100 N/mm ² to 800 N/mm ² 100 N/mm ² to
		Yield Stress Elongation	IS 1608 (Part 1)	800 N/mm ² 5 % to 40 %
		Bend Test Rebend Test	IS 1599 IS 1786	Qualitative {Mandrel Diameters: (20,16, 24, 30, 36,112, 60,125,150,160,140, 64, 50, 40, 32) mm}
II.	BUILDING MATERI	ALS		
1.	Paver Block	Compressive Strength	IS 15658	5 N/mm ² to 80 N/mm ²
		Water Absorption Flexural Strength	IS 15658 IS 15658	1 % to 10 % 2 N/mm ² to 8 N/mm ²
2.	AAC Block	Density Moisture Content	IS 6441 (Part 1) IS 6441 (Part 1)	450 g/cc to 1000 g/cc 5 % to 25 % 80 mm to 700 mm
		Dimension Compressive Strength	IS 2185 (Part 3) IS 6441 (Part 5)	1 N/mm ² to 10 N/mm ²
3.	Cement	Consistency Initial Setting Time	IS 4031 (Part 4) IS 4031 (Part 5)	20 % to 40 % 30 Minutes to 400 Minutes

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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
		Final Setting	IS 4031 (Part 5)	60 Minutes to 600 Minutes
		Compressive Strength	IS 4031 (Part 6)	10 N/mm ² to 80 N/mm ²
		Soundness by Le- Chatilier Method	IS 4031 (Part 3)	0.1 mm to 10 mm
		Fineness by dry sieving	IS 4031 (Part 1)	0.1 % to 10 %
		Fineness by blain air permeability	IS 4031 (Part 2)	2000 cm ^{2/} g to 5000 cm ^{2/} g
		Specific gravity	IS 4031 (Part 11)	2.8 to 3.4
4.	Concrete cubes/ Concrete core/	Compressive Strength	IS 516	5 N/mm ² to 70 N/mm ²
5.	Clay / Fly Ash Bricks	Dimension	IS 1077 IS 13757	L: 200mm to 250mm W:100mm to 125mm H: 60mm to 80mm
		Compressive Strength	IS 3495 (Part 1)	1 N/mm ² to 40 N/mm ²
		Water Absorption	IS 3495 (Part 2)	0.5 % to 40 %
		Efflorescence	IS 3495 (Part 3)	Qualitative
6.	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)	2.36 mm to 40 mm
		Flakiness Index	IS 2386 (Part 1)	Upto 50 %
		Elongation Index	IS 2386 (Part 1)	Upto 50 %
		Water absorption	IS 2386 (Part 3)	0.1 % to 5 %
		Specific Gravity	IS 2386 (Part 3)	2.0 to 3.0
		Bulk Density	IS 2386 (Part 3)	1.2 g/cc to 2.5 g/cc
		Impact Value	IS 2386 (Part 4)	5 % to 55 %
		Crushing Value	IS 2386 (Part 4)	5 % to 55 %
		Abrasion Value	IS 2386 (Part 4)	5 % to 55 %
7.	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)	75 µ to 10 mm
		Finer Than 75 µ	IS 2386 (Part 1)	0.1 % to 50 %
		Specific Gravity	IS 2386 (Part 3)	2.0 to 3.0
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10 %
	<u> </u>	Bulk Density	IS 2386 (Part 3)	1.2 g/cc to 2.5 g/cc

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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
III.	SOIL AND ROCK			
1.	Soil	Water Content	IS 2720 (Part 2)	1 % to 50 %
		Grain size Analysis	IS 2720 (Part 4)	20 mm to 0.001 mm
		Liquid Limit	IS 2720 (Part 5)	0.5 % to 80 %
		Plastic Limit	IS 2720 (Part 5)	0.5 % to 80 %
		Shrinkage Limit	IS 2720 (Part 6)	1 % to 50 %
		Free Swelling Index	IS 2720 (Part 40)	1 % to 200 %
		Light Compaction	IS 2720 (Part 7)	1.4 g/cc to 2.5 g/cc
		Heavy Compaction	IS 2720 (Part 8)	1.5 g/cc to 2.5 g/cc
		Consolidation Test	IS 2720 (Part 15)	1 kg-cc to 8 kg-cc

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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
AT-S	SITE			
١.	SOIL AND ROCK			
1.	Soil Field Test	Sand replacement Method	IS 2720 (Part 28)	1.4 g/cc to 2.5 g/cc
		Core Cutter	IS 2720 (Part 29)	1.4 g/cc to 2.5 g/cc

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"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"			

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		NON-DESTRU	CTIVE TESTING	
I.	NDT			
1.	Non-Destructive Testing	Rebound hammer test	IS 13311 (Part 2)	10 N/mm ² to 60 N/mm ²
		Ultrasonic Pulse Velocity	IS 13311 (Part 1)	1.0 Km/sec. to 5.0 Km/sec.