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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
		MECHANIC	CAL TESTING	
I.	SOIL AND ROCK			
1.	Soil	Moisture Content Grain size analysis Dry Sieve Analysis Liquid Limit Plastic Limit Specific gravity Free Swell index Compaction test- Light compaction Maximum Dry Density Optimum Moisture Content	IS 2720 (Part 2) IS 2720 (Part 4) IS 2720 (Part 5) IS 2720 (Part 5) IS 2720 (Part 3/section-1) IS 2720 (Part 40) IS 2720 (Part 7) IS 2720 (Part 7)	0.5 %to 50 % 0.1 %to 100 % (4.75mm- 75 micron) 5%to 100 % 1 %to 50 % 1 to 4 1%to 200% 1 to 4 g/cm ³ 5 to 30%
		Compaction test - Heavy compaction Maximum Dry Density Optimum Moisture Content Triaxial shear test	IS 2720 (Part 11)	1 to 4 g/cm ³ 5 to 30% C = 0 to 7 kg/cm ² Φ = 0° to 50°
ļ	DUIL DING MATERI		IS 2720 (Part 13)	$C = 0 \text{ to } 5 \text{ kg/cm}^2$ $\Phi = 0^{\circ} \text{ to } 50^{\circ}$
II.	BUILDING MATERIA	AL		
1.	Cement (PPC/OPC)	Consistency of Standard Cement Paste Fineness Blaine Air Method	IS 4031 (Part 2)	10 %to 40 % 100 m²/kg to 550 m²/kg
		Setting time Initial Setting Time	IS 4031 (Part 5)	10 minutes to 300 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 Time	IS 4031 (Part 5)	10 minutes to 600
				minutes
		Specific Gravity test	IS 4031 (Part 11)	1 to 4
		Soundness test	IS 4031 (Part 3)	0.5 mm to 10 mm
		Compressive Strength of Cement	IS 4031 (Part 6)	10 N/mm² to 70 N/mm²
2.	Fine Aggregate	Specific Gravity	IS 2386 (Part III)	1 to 4
	(sand)	Particle Size Distribution	IS 2386 (Part I)	0.1 % to 100 % (150 microns to 10mm)
		Bulk Density	IS 2386 (Part III)	1 kg/L to 4 kg/L
		Water absorption	IS 2386 (Part III)	0.1% to 10%
		Material finer than 75 microns	IS 2386 (Part I)	0.03% to 10%
3.	Coarse Aggregate	Specific Gravity	IS 2386 (Part III)	1 to 4
		Particle Size Distribution	IS 2386 (Part I)	0.1 % to 100 % (2.36 mm to 125 mm)
		Flakiness Index	IS 2386 (Part I)	1% to 50%
		Elongation Index	IS 2386 (Part I)	1% to 50%
		Soundness	IS 2386 (Part V)	0.3 % to 20%
		Bulk density	IS 2386 (Part III)	1 kg/L to 5 kg/L
		Crushing value	IS 2386 ((Part IV)	5 % to 60 %
		Impact Value	IS 2386 (Part IV)	5 % to 60%
		Water Absorption	IS 2386 (Part I)	0.1 % to 5%
		Material finer than 75 microns	IS 2386 (Part I)	0.03% to 10%

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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
4.	Concrete	Compressive Strength of hardened concrete	IS 516–1959	10 N/mm² to 75 N/mm²
5.	Brick	Water absorption Compressive Strength	IS 3495 (Part 2) IS 3495 (Part 1)	0.1 % to 50% 0.5 N/mm² to 15 N/mm²
		Dimensions Length Width Height	IS 107, IS 12894 & IS 13757	4400 mm to 4700 mm 2100 mm to 2300 mm 1300 mm to 1500 mm
		Efflorescence	IS 3495 (Part 3)	Qualitative

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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			
	NON-DESTRUCTIVE TESTING						
I.	I. BUILDING MATERIAL						
1.	Reinforced Cement Structure	Ultrasonic Pulse Velocity Test	IS 13311 (Part 1)	1.5 km/sec to 5.5 km/sec			
		Rebound Hammer Test	IS 13311 (Part 2)	10 MPa to 70 MPa			