



Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: Structwel Designers & Consultants Private Limited

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Address: Structwel, Plot No. 15, Sector 24, Off Sion Panvel
Highway, Turbhe, Navi Mumbai- 400705

Issue date : 25.08.2025

Validity : 24.08.2029

Certificate No.: T-0030

Amendment date: N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
Discipline: Mechanical, Group: Building Material					
1	Fine Aggregate	Specific Gravity	1.0 to 4.0	IS 2386- (Part-3)	Permanent
2		Bulk density (Rodded)	1.0 kg/litre to 2.0 kg/litre	IS 2386(Part-3)	Permanent
3		Dry loose Bulk Density	1.0 kg/litre to 2.0 kg/litre	IS-2386- (Part-3)	Permanent
4		Materials Finer than 75 Micron	0.1 % to 25.0 %	IS 2386 -(Part 1)	Permanent
5		Moisture Content	0.1 % to 10.0 %	IS 2386 (Part-3)	Permanent
6		Sieve Analysis	0 % to 100 %	IS-2386-(Part-1)	Permanent
7		Soundness by MgSO4	0.1% to 20.0 %	IS-2386- (Part-5)	Permanent
8		Soundness by Na2SO4	0.1% to 20.0 %	IS 2386-(Part 5)	Permanent
9		Water Absorption	0.1 % to 10.0 %	IS-2386-(Part-3)	Permanent
10	Coarse Aggregate	Aggregate Abrasion value	5.0 % to 50.0 %	IS 2386 - (Part-4)	Permanent
11		Bulk Density	1.0 kg/litre to 2.0 kg/litre	IS 2386 - (Part-3)	Permanent
12		Bulk density (Rodded)	1.0 kg/litre to 2.0 kg/litre	IS 2386 (Part 3)	Permanent
13		Crushing Value	5.0 % to 50.0 %	IS 2386 - (Part-4)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility	
14		Elongation Index	5.0 % to 50.0 %	IS 2386 - (Part-1)	Permanent	
15		Flakiness Index	5.0 % to 50.0 %	IS 2386 - (Part-1)	Permanent	
16		Impact Value	5.0 % to 50.0 %	IS 2386 - (Part-4)	Permanent	
17		Sieve Analysis	0 % to 100 %	IS 2386 - (Part-1)	Permanent	
18		Soundness by MgSO ₄	0.1 % to 20 %	IS 2386 - (Part-5)	Permanent	
19		Soundness by Na ₂ SO ₄	0.1% to 20 %	IS 2386 - (Part-5)	Permanent	
20		Specific Gravity	1.0 to 4.0	IS 2386 - (Part-3)	Permanent	
21		Ten Percent Fines Value	40 kN to 400 kN	IS 2386 - (Part-4)	Permanent	
22		Water Absorption	0.1 % to 10.0 %	IS 2386 - (Part-3)	Permanent	
23		OPC/PPC/PSC	Normal Consistency	10.0 % to 40.0 %	IS 4031-(Part-4)	Permanent
24			Compressive Strength	5.0 N/mm ² to 80.0 N/mm ²	IS 4031-(Part-6)	Permanent
25			Density	2.0 to 4.0	IS 4031-(Part-11)	Permanent
26	Drying Shrinkage		0.001 % to 0.5 %	IS 4031-(Part-10)	Permanent	
27	Initial Setting Time		5 min to 300 min	IS 4031-(Part-5)	Permanent	
28	Final Setting Time		30 min to 600 min	IS 4031-(Part-5)	Permanent	
29	Fineness by Dry Sieving		1.0 % to 30.0 %	IS 4031-(Part-1)	Permanent	

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
30		Fineness by Specific Surface by Blaine Air Permeability	200 m ² /kg to 500 m ² /kg	IS 4031-(Part-2)	Permanent
31		Heat of Hydration	50 kJ/kg to 500 kJ/kg	IS 4031-(Part-9)	Permanent
32		Soundness by Le Chatelier Method	0.1 mm to 10.0 mm	IS 4031-(Part-3)	Permanent
33		Soundness by Autoclave Method	0.001 % to 1.0 %	IS 4031-(Part-3)	Permanent
34	Hardened Concrete (Cube/Cylinder)	Compressive Strength.	5.0 N/mm ² to 100.0 N/mm ²	IS 516 (Part 1/Sec 1)	Permanent
35	Hardened Concrete (Cube/ Core)	Compressive Strength. (Including Extraction of core)	5.0 N/mm ² to 100.0 N/mm ²	IS 516 (Part 4): 2018	Permanent
36		ISAT (Initial Surface Absorption Test)	0.01 ml/m ² /s to 3.60 ml/m ² /s	BS 1881-Part-208	Permanent
37		Rapid Chloride Permeability Test (RCPT)	50 Coulombs to 6000 Coulombs	ASTM C-1202	Permanent
38		Depth of Water Penetration Under Pressure	0.0 mm to 150.0 mm	IS 516-Part 2/Sec 1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
39		Determining Compressive Strength of Accelerated Cured Concrete Cube	5.0 N/mm ² to 100.0 N/mm ²	IS: 9013	Permanent
40	Hardened Concrete (Beam)	Flexural Strength	1.0 N/mm ² to 10.0 N/mm ²	IS 516 (Part 1/Sec 1)	Permanent
41	Reinforced Concrete	Pull out Test	2.0 N/mm ² to 40.0 N/mm ²	IS 2770-(Part-1)	Permanent
42	Concrete/Rock /Aggregate	Petrographic Examination	Qualitative: Visual	IS 2386 Part VIII	Permanent
43	Cylinder	Modulus of Elasticity	5.0 GPa to 60 GPa	IS 516 (Part 8/Sec 1)	Permanent
44	Autoclaved Cellular Aerated	Compressive Strength	1.0 N/mm ² to 10.0 N/mm ²	IS 6441(Part-5)	Permanent
45	Concrete Block	Density	300 kg/m ³ to 1000 kg/m ³	IS 6441(Part-1)	Permanent
46		Dimensions -Length	550 mm to 700 mm	IS 2185 (Part-3)	Permanent
47		Dimensions-Width	150 mm to 250 mm	IS 2185 (Part-3)	Permanent
48		Dimensions-Thickness	75 mm to 250 mm	IS 2185 (Part-3)	Permanent
49		Drying Shrinkage	0.01 % to 1.0 %	IS 6441-(Part-2)	Permanent
50		Moisture Content	5 % to 50 %	IS 6441 (Part-1)	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
51		Thermal Conductivity	0.10 W/mK to 0.50 W/mK	IS 3346	Permanent
52	Ceramic tiles	Dimensions-Length	150.0 mm to 1000.0 mm	IS:13630-(Part-1)	Permanent
53		Dimensions-Breath	150.0 mm to 1000.0 mm	IS:13630-(Part-1)	Permanent
54		Dimensions -Thickness	5.00 mm to 20.00 mm	IS:13630-(Part-1)	Permanent
55		Centre of curvature	0.001 mm to 1.0 mm	IS :13630 (Part 1)	Permanent
56		Edge Curvature	0.001 mm to 1.0 mm	IS :13630 (Part 1)	Permanent
57		Rectangularity	0.001 mm to 2.0 mm	IS:13630-(Part-1)	Permanent
58		Straightness	0.01 mm to 2.0 mm	IS-13801	Permanent
59		Warpage	0.001 mm to 1.0 mm	IS: 13630 (Part 1)	Permanent
60		Surface Flatness	0.001 mm to 1.0 mm	IS 13630 Part 1	Permanent
61		Surface Quality	Qualitative: Visual	IS 13630 Part 1	Permanent
62		Breaking strength	100 N to 2500 N	IS 13630 Part 6	Permanent
63		Modulus of Rupture	5.0 N/mm ² to 60.0 N/mm ²	IS 13630-(Part-6)	Permanent
64	Water Absorption	0.001 % to 25.0 %	IS 13630: Part 2	Permanent	

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
65		Scratch Hardness (Moh's Scale)	Qualitative :1 – 6 Mhos Scale	IS 13630-(Part-13)	Permanent
66		Crazing Resistance	Qualitative: Visual	IS 13630 (Part 9)	Permanent
67	Paver Block	Dimension -Length	100.0 mm to 400.0 mm	IS 15658	Permanent
68		Dimension- Width	60.0 mm to 400.0 mm	IS 15658	Permanent
69		Dimension- Thickness	50.0 mm to 125.0 mm	IS 15658	Permanent
70		Plan Area	15000 mm ² to 35000 mm ²	IS 15658	Permanent
71		Thickness of Wearing Layer	0.1 mm to 20 mm	IS 15658	Permanent
72		Water Absorption	1.0 % to 25.0 %	IS 15658	Permanent
73		Compressive Strength	5.0 N/mm ² to 90.0 N/mm ²	IS 15658	Permanent
74		Abrasion Resistance	0.1 mm to 5.0 mm	IS 15658	Permanent
75		Flexural Strength	1 N/mm ² to 20 N/mm ²	IS 15658	Permanent
76		Tensile Splitting Strength	1 N/mm ² to 10 N/mm ²	IS 15658	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
77	Granular Sub Base / Wet Mix	10 percent Fines Value	40 kN to 400 kN	IS 2386 (Part 4)	Permanent
78	Macadam/ Water Bound Macadam	Los Angeles Abrasion Value	5.0 % to 50.0 %	IS 2386 (Part 4)	Permanent
79		California Bearing Ratio	5.0 % to 100 %	IS 2720 (Part-16)	Permanent
80		Crushing Value	5.0 % to 50.0 %	IS 2386 (Part-4)	Permanent
81		Elongation Index	5.0 % to 50.0 %	IS 2386 (Part-1)	Permanent
82		Flakiness Index	5.0 % to 50.0 %	IS 2386 (Part-1)	Permanent
83		Heavy Compaction OMC	1.0 % to 30.0 %	IS 2720 (Part-8)	Permanent
84		Heavy Compaction-MDD	1.90 g/cc to 2.60 g/cc	IS 2720 (Part-8)	Permanent
85		Impact Value	5 % to 50 %	IS 2386 (Part-4)	Permanent
86		Liquid Limit	0 % to 50%	IS 2720 (Part-5)	Permanent
87		Plastic Limit	0 % to 50 %	IS 2720 (Part-5)	Permanent
88		Sieve Analysis	0 % to 100 %	IS 2386 (Part-1)	Permanent
89		Water Absorption	0.1 % to 10 %	IS 2386 (Part-3)	Permanent
90	Door Shutter/ Flush Door/ Shutter/FRP	Deflection due to Load applied at its Edge	0.1 mm to 25 mm	IS 4020-(Part-7)	Permanent
91		Impact Indentation	0.01 mm to 1.0 mm	IS-4020-(Part-5)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
92		Measurement of Defects of general Flatness	0.1 mm to 5 mm	IS-4020-(Part-3)	Permanent
93	Door Shutter/ Flush Door/ Shutter/FRP	Measurement of Dimension and Squareness - Thickness	20 mm to 50 mm	IS-4020-(Part-2)	Permanent
94		Measurement of Dimension and Squareness -Width	25 mm to 1000 mm	IS-4020-(Part-2)	Permanent
95		Measurement of Dimension and Squareness -Length	1200 mm to 3000 mm	IS 4020-(Part-2)	Permanent
96		Resistance to Shock	Qualitative: Visual	IS-4020-(Part-8)	Permanent
97		Resistance to Buckling	0.01 mm to 100 mm	IS-4020-(Part-9)	Permanent
98		Resistance to misuse	Qualitative: Visual	IS-4020-(Part-11)	Permanent
99		Screw Holding Power	10 N to 5000 N	IS 4020-(Part-16)	Permanent
100		Test to examine the general Plane -ness of the Surfaces	0.01 mm to 1.0mm	IS 4020-(Part-4)	Permanent
101		End Immersion	Qualitative: Visual	IS 4020-(Part-13)	Permanent
102		Glue Adhesion	Qualitative :1.0 mm - 50.0 mm	IS 4020-(Part-15)	Permanent
103	Knife Test	Qualitative: Visual	IS 4020-(Part-14)	Permanent	

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
104		Thickness	20.0 mm to 50.0 mm	IS 4020-(Part-15)	Permanent
105		Resistance to Slamming Action	Qualitative: Visual	IS 4020-(Part-10)	Permanent
106	Plywood	Adhesion of Plies	Qualitative	IS 1734 -(Part-5)	Permanent
107		Density	400 kg/m ³ to 1000 kg/m ³	IS 1734-(Part-1)	Permanent
108		Moisture content	1 % to 50 %	IS 1734-(Part-1)	Permanent
109		Resistance to Dry Heat	Qualitative: Visual	IS 1734 (Part-2)	Permanent
110		Water Resistance	Qualitative: Visual	IS 1734: (Part-6)	Permanent
111	Reinforcement Steel Ribbed/Mild)	0.2 % Proof stress	200 N/mm ² to 900 N/mm ²	IS 1608 (Part-1)	Permanent
112	& Structural Steel	Bend Test	Qualitative: Mandrel dia. 16, 20, 24,30, 32, 36,40,48, 50, 60,64, 75,80, 96, 100, 108, 120, 125, 128, 144, 144, 150, 160, 180, 192,200,216,240 mm	IS-1599	Permanent
113		Percentage Elongation	5.0 % to 40.0 %	IS 1608 (Part-1)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
114		Rebend Test	Qualitative: Mandrel dia. 32,40,48,50, 56, 60, 70,72,84,96, 112, 120, 128, 140, 150, 160, 175, 192, 200, 216, 224, 240, 252,	IS-1786	Permanent
115		Ultimate Tensile strength	200.0 N/mm ² to 900.0 N/mm ²	IS 1608 (Part-1)	Permanent
116		Weight per Meter for reinforcement bar	0.100 kg to 10.0 kg	IS-1786	Permanent
117		Weight per Meter for structural steel	1 kg to 60 kg	IS 808	Permanent
118		Yield strength	200.0 N/mm ² to 800.0 N/mm ²	IS 1608 (Part-1)	Permanent
119		% Elongation at Maximum Force	5.0 % to 40.0 %	IS-1786	Permanent
120		Reinforcement Coupler for	Percentage Elongation	5.0 % to 30.0 %	IS 16172
121	Mechanical Splices	Tensile Test	200.0 N/mm ² to 900.0 N/mm ²	IS 16172	Permanent
122		Compressive Strength	5.0 N/mm ² to 100.0 N/mm ²	IS 516 (Part 1/Sec 1)	Mobile



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
123	Hardened Concrete (Cube/Cylinder)	Flexural Strength	1.0 N/mm ² to 10.0 N/mm ²	IS 516 (Part 1/Sec 1)	Mobile

Discipline: - Mechanical, Group: - Soil and Rock

124	Soil	Direct Shear Test- Angle of Internal Friction	1.0° to 40.0 °	IS 2720- (Part-13)	Permanent
125		Direct Shear Test - Cohesion	0.1 t/m ² to 10.0 t/m ²	Cohesion IS 2720- (Part-13)	Permanent
126		Grain Size Analysis	0 % to 100.0 %	IS 2720-(Part-4)	Permanent
127		Grain Size analysis (By Hydrometer)	0 % to 100.0 %	IS-2720- (Part-4)	Permanent
128		Water content	1.0 % to 50.0 %	IS 2720-(Part-2)	Permanent
129		Liquid Limit	0 % to 80 %	IS 2720-(Part-5)	Permanent
130		Plastic Limit	0 % to 80 %	IS 2720-(Part-5)	Permanent
131		Shrinkage Limit	0 % to 80 %	IS 2720- (Part-6)	Permanent
132		Specific Gravity	1.0 to 3.0	IS 2720-(Part-3, Sec-1)	Permanent
133		Free Swell Index	1.0 % to 100.0 %	IS 2720-(Part-40)	Permanent
134		Oedometer test (Consolidation Test)	2.0 m ² /yr x10 ⁻² to 200.0 m ² /yr x10 ⁻²	IS 2720-(Part-15)	Permanent



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135		Swelling Pressure	1.0 T/m ² to 20.0 T/m ²	IS 2720-(Part-41)	Permanent
136	Soil	Unconfined Compressive Strength	0.01 MPa to 20 MPa	IS 2720 (Part-10)	Permanent
137		Laboratory California Bearing Ratio	2.0 % to 50.0 %	IS 2720-(Part-16)	Permanent
138		Water content - Dry Density Relation using Heavy compaction	1.1 g/cc to 2.4 g/cc	IS-2720-(Part-8)	Permanent
139		Water content - Dry Density Relation using Heavy compaction – Optimum Moisture Content	1.0 % to 30.0 %	IS 2720-(Part-8)	Permanent
140		Water content - Dry Density Relation using Light compaction - Maximum Dry Density	1.1 g/cc to 2.1 g/cc	IS 2720-(Part-7)	Permanent
141		Water content - Dry Density Relation using Light compaction – Optimum Moisture Content	2.0 % to 30.0 %	IS 2720- (Part-7)	Permanent
142	Soil	Field California Bearing Ratio	1.0 % to 90.0 %	IS 2720-(Part-31)	Site

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143		Field Dry Density by Sand Replacement method.	1.0 g/cc to 2.5 g/cc	IS-2720- (Part-28)	Site
144		Field Dry Density by Sand Replacement method. - Moisture content	1.0 % to 30.0 %	IS-2720- (Part-28)	Site
145		Field Density by Core Cutter method	1000.0 kg/m ³ to 2500 kg/m ³	IS 2720-(Part-29)	Site
146		Dynamic Cone Penetration Test (DCPT)	1N value to 100 N value	IS 4968 (Part-1)	Site
147		Standard Penetration Test	1N value to 100 N value	IS 2131	Site
148		Plate Load Test	1.0 t/m ² to 100 t/m ²	IS-1888	Site
149		Modulus Of Subgrade Reaction (K-value)	0.2 MPa/cm to 2.0 MPa/cm	IS 9214	Site
150	Rock	Dry Density	1.5 g/cc to 5.0 g/cc	IS-13030	Permanent
151		Water Absorption	0.1 % to 25.0 %	IS-13030	Permanent
152		Specific Gravity	1.0 to 4.0	IS-1122	Permanent
153		Porosity	0.1 % to 10.0 %	IS-13030	Permanent
154		Unconfined Compressive Strength	1.0 N/mm ² to 100.0 N/mm ²	IS-9143	Permanent

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155		Point Load Test Index	0.25 kN to 100 kN	IS 8764	Permanent

Discipline: Non-Destruction Testing, Group: Building Materials – Reinforced Concrete Structures

156	Reinforced Concrete Structures	Carbonation Test	0 mm to 100 mm	IS 516 (Part 5/Sec 3)	Site
157		Cover Meter Test	5.0 mm to 100.0 mm	BS-1881- (Part-204)	Site
158		Half-cell potentiometer Test	-10 mV to -650 mV	IS 516 (Part 5/Sec 2)	Site
159		Measurement of Crack Depth by Ultrasonic Pulse Velocity	1 mm to 300 mm	IS 516 (Part 5/Sec 1)	Site
160		Schmidt Rebound Hammer Test	10.0 N/mm ² to 60.0 N/mm ²	IS 516 (Part 5/Sec 4)	Site
161		Ultrasonic Pulse Velocity Test	1 km/s to 6.0 km/s	IS 516-Part 5/Sec-1	Site
162		Pull off Strength of Coating (Tiles, Tile/block Adhesive, Ready Mix Plaster, Gypsum Plaster, Paints, Coating)	0.0 N/mm ² to 10 N/mm ²	ASTM D 4541	Site
163		Slab Load Test	0.001mm to 50.0mm	ACI 318R-19	Site
164	Bridge Span Test	0.001mm to 50.0mm	IRC SP 51	Site	

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Highway, Turbhe, Navi Mumbai- 400705

Issue date : 25.08.2025

Validity : 24.08.2029

Certificate No.: T-0030

Amendment date: N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
165	Reinforced Concrete Structures	Pile Integrity Test (Low Strain)	1 m to 25 m	ASTM 5882	Site
166		Ground Penetration Radar Survey	Qualitative	ASTM D6432	Site
167		Ground Penetration Radar Survey	Qualitative	ASTM D6087-97	Site
168		Ground Penetration Radar Survey	Qualitative	ACI 228 :2R 98	Site
Discipline: - Chemical, Group:- Building Materials					
169	Coarse Aggregate	Acid Soluble Chloride	0.001 % to 0.5 %	IS 14959 (Part 2)	Permanent
170		Alkali Aggregate Reactivity - Dissolved Silica	2.0 milimoles/L to 70.0 milimoles/L	IS 2386(Part-7)	Permanent
171		Alkali Aggregate Reactivity - Reduction in Alkalinity	20.0 milimoles/L to 700.0 milimoles/L	IS 2386(Part-7)	Permanent
172		pH	0.0 to 14.0	IS:2720 (Part-26)	Permanent
173		Soft Particle	0.01 % to 3.0 %	IS : 2386 (Part 2)	Permanent
174		Sulphates	0.001 % to 1.0 %	IS 4032	Permanent
175	Fine Aggregate	Acid Soluble Chloride	0.001 % to 0.5 %	IS 14959 (Part 2)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility	
176		Alkali Aggregate Reactivity - Dissolved Silica	2.0 milimoles/L to 70.0 milimoles/L	IS 2386(Part-7)	Permanent	
177		Alkali Aggregate Reactivity - Reduction in Alkalinity	20.0 milimoles/L to 700.0 milimoles/L	IS 2386(Part-7)	Permanent	
178		Deleterious Materials	0.01 % to 6.0 %	IS 2386(Part-2)	Permanent	
179		Organic Impurities	Qualitative: Visual	IS 2386(Part-2)	Permanent	
180		pH	0.0 to 14.0	IS:2720 (Part-26)	Permanent	
181		Soft Particle	0.01 % to 3.0 %	IS: 2386 (Part 2)	Permanent	
182		Sulphate	0.001 % to 1.0 %	IS 4032	Permanent	
183		Admixture	Ash Content	1.0 % to 20.0 %	IS 9103	Permanent
184			Chloride	0.005 % to 5.0 %	IS 6925	Permanent
185			Dry Material content	5.0 % to 60.0 %	IS 9103	Permanent
186	Relative density		1.0 to 2.0	IS 9103	Permanent	
187	OPC/PPC/PSC	Aluminum oxide (Al ₂ O ₃)	1.0 % to 20.0 %	IS: 4032	Permanent	
188		Calcium oxide (CaO)	10.0 % to 70.0 %	IS: 4032	Permanent	
189		Chlorides	0.001 % to 2.0 %	IS 4032	Permanent	

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
190		Ferric Oxide (Fe ₂ O ₃)	1.0 % to 10 %	IS: 4032	Permanent
191		Insoluble Residue	0.1 % to 50.0 %	IS 4032	Permanent
192		Loss on Ignition	1.0 % to 15.0 %	IS 4032	Permanent
193		Magnesia (MgO)	1.0 % to 10.0 %	IS 4032	Permanent
194		Potassium Oxide (K ₂ O)	0.05 % to 3.0 %	IS 4032	Permanent
195		Silica (SiO ₂)	10.0 % to 50.0 %	IS 4032	Permanent
196		Sodium Oxide (Na ₂ O)	0.05 % to 3.0 %	IS 4032	Permanent
197		Sulphuric Anhydride (SO ₃)	1.0 % to 5.0 %	IS: 4032	Permanent
198		Total Alkali as Sodium Oxide (Na ₂ O)	0.05 % to 3.0 %	IS: 4032	Permanent
199		Sulphur as sulphide	0.01 % to 1.50 %	IS 4032	Permanent
200		Ceramic Tiles (Glazed)	Chemical Resistance	Evaluation of Stain resistance Class	IS 13630 (Part-8)
201	Stain Resistance		Qualitative	IS 13630 (Part-8)	Permanent
202	Ceramic Tiles (Unglazed)	Chemical Resistance	Qualitative	IS 13630 (Part-7)	Permanent
203		Stain Resistance	Evaluation of Stain resistance Class	IS 13630 (Part-7)	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
204	Hardened Concrete/ Mortar	Chloride	0.001 kg/m ³ to 1.00 kg/m ³	IS 13630 (Part-2)	Permanent
205		pH Value	0.0 to 14.0	IS 2720 (Part 26)	
206		Sulphate Content	0.01 % to 4.0 %	BS 1881 Part 124	
207	Reinforcement Steel Ribbed/ Mild) & Structural Steel	Manganese	0.01 % to 1.5 %	IS 228 (Part 2)	Permanent
208		Sulphur	0.01 % to 0.2 %	IS 228 - (Part-9)	
209		Phosphorous	0.01 % to 0.2 %	IS 228 (Part 3)	
210		Carbon	0.05 % to 2.5 %	IS 228-(Part-1)	
211	Reinforced Couplers for Mechanical Splices	Carbon	0.05 % to 2.5 %	IS 228-(Part-1)	Permanent
212		Phosphorous	0.01 % to 0.2 %	IS 228 (Part 3)	
213		Sulphur	0.01 % to 0.2 %	IS 228 Part 9	
214		Manganese	0.01 % to 1.5 %	IS 228 - (Part 2)	
215	Water for Construction Purpose	Chloride	0.5 mg/l to 2000 mg/l	IS 3025 - (Part-32)	Permanent
216		Sulphate	0.01 mg/l to 2000 mg/l	IS 3025 - (Part - 24)	
217		pH	0.0 to 14.0	IS 3025 -(Part-11)	
218		Fixed Residue (Inorganic solids)	1.0 mg/l to 10000 mg/l	IS 3025 (Part -18)	

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
219		Total Hardness as CaCO ₃	1.0 mg/l to 10000 mg/l	IS 3025 - (Part-21)	Permanent
220		Total Suspended solid	1.0 mg/l to 2000 mg/l	IS 3025 - (Part-17)	Permanent
221		Volatile Residue (Organic solids)	1.0 mg/l to 10000 mg/l	IS 3025 - (Part-18)	Permanent
222		Acidity (Volume of 0.02N NaOH required to Neutralize 100 ml Water sample using Phenolphthalin Indicator)	0.1 ml to 10 ml	IS:456	Permanent
223		Alkalinity (Volume of 0.02 N H ₂ SO ₄ required to Neutralize 100 ml of Sample using Mixed Indicator)	0.1 ml to 100 ml	IS: 456	Permanent
224		Acidity	1.0 mg/l to 500 mg/l	IS:3025 (Part -22)	Permanent
225		Alkalinity	1.0 mg/l to 2500 mg/l	IS: 3025 (Part 23)	Permanent

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