National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : METRO LABORATORIES, B-10, NAND DHAM INDUSTRIAL ESTATE, MAROL MAROSHI ROAD, ANDHERI (EAST), MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Angularity Test	IS 2386 (Part-1)
2	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Deleterious Material- (Coal & Lignite)	IS 2386 (Part-2)
3	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Deleterious Material- Clay Lumps	IS 2386 (Part-2)
4	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	10 Percent Fines Value	IS 2386 (Part 4)
5	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Abrasion Value - Los Angeles	IS 2386 (Part 4)
6	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Bulk Density	IS 2386 (Part 3)
7	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Crushing Value	IS 2386 (Part 4)
8	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Elongation Index	IS 2386 (Part 1)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Flakiness Index	IS 2386 (Part 1)
10	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Impact Value	IS 2386 (Part 4)
11	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Sieve Analysis(Sieve size: 4.75mm to 40mm)	IS 2386 (Part 1)
12	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Soundness - MgSO4	IS 2386 (Part 5)
13	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Soundness - Na2SO4	IS 2386 (Part 5)
14	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Specific Gravity	IS 2386 (Part 3)
15	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Coarse	Water Absorption	IS 2386 (Part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Bulk Density	IS 2386 (Part 3)
17	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Bulking	IS 2386 (Part-3)
18	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Deleterious Material- (Coal & Lignite)	IS 2386 (Part-2)

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19	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Deleterious Material- Clay Lumps	IS 2386 (Part-2)
20	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Material Finer than 75 Micron	IS 2386 (Part 1)
21	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Organic Impurities	IS 2386 (Part-2)
22	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Sieve Analysis(Sieve size: 75µm to 4.75mm)	IS 2386 (Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Silt Content	CPWD Specifications Vol.-1
24	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Soundness - MgSO4	IS 2386 (Part 5)
25	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Soundness- Na2SO4	IS 2386 (Part 5)
26	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Specific Gravity	IS 2386 (Part 3)
27	MECHANICAL- BUILDINGS MATERIALS	Aggregate - Fine	Water Absorption	IS 2386 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Bulk Density	IS 6441 (Part 1)
29	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Compressive Strength	IS 6441 (Part 5)
30	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Dimensions-Height	IS 2185 (Part-3)
31	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Dimensions-Length	IS 2185 (Part-3)
32	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Dimensions-Thickness	IS 2185 (Part-3)
33	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Drying Shrinkage	IS 6441 (Part 2)
34	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular (Aerated) Concrete Blocks	Moisture Content	IS 6441 (Part 1)
35	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209
37	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209

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38	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Viscosity	IS 1206 (Part-1)
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mastic	Hardness Number	IS 1195
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mastic	Sieve Analysis	IS 2386 (Part-1)
44	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IRC SP 11
45	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D 6927
46	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D 6927
47	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Sieve Analysis	IS 2386 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay / Pulverised Fuel Fly Ash)	Efflorescence	IS 3495 (Part 3)
49	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay / Pulverised Fuel Fly Ash)	Compressive Strength	IS 3495 (Part 1)
50	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay / Pulverised Fuel Fly Ash)	Water Absorption	IS 3495 (Part 2)
51	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Dimensions-Length	IS 1077
52	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Dimensions-Thickness	IS 1077
53	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt Clay)	Dimensions-Width	IS 1077
54	MECHANICAL- BUILDINGS MATERIALS	Bricks (Pulverised Fuel Fly Ash)	Dimensions-Length	IS 12894
55	MECHANICAL- BUILDINGS MATERIALS	Bricks (Pulverised Fuel Fly Ash)	Dimensions-Thickness	IS 12894
56	MECHANICAL- BUILDINGS MATERIALS	Bricks (Pulverised Fuel Fly Ash)	Dimensions-Width	IS 12894

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57	MECHANICAL- BUILDINGS MATERIALS	Cast Iron & Ductile Iron Manhole Covers and Frame	Load Test	IS 1726
58	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Standard Consistency	IS 4031 (Part-4)
59	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Compressive Strength	IS 4031 (Part 6)
60	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Density	IS 4031 (Part 11)
61	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Final Setting Time	IS 4031 (Part 5)
62	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Fineness by Dry Sieving	IS 4031 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Initial Setting Time	IS 4031 (Part 5)
64	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC / PPC)	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
65	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions-Length	IS 13630 (Part-1)
66	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions-Thickness	IS 13630 (Part-1)
67	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions-Width	IS 13630 (Part-1)
68	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Resistance to deep abrasion	IS 13630 (Part-12)
69	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part 2)
70	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Water Absorption	IS 13801 (Annex E)
71	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Wet Transverse Strength	IS 13801 (Annex F)
72	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength by Boiling Water Method	IS 9013
73	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength	IS 516
74	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516
75	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
76	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive Strength	IS 1727
77	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Drying Shrinkage	IS 1727
78	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Final Setting Time	IS 1727
79	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness	IS 1727
80	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Initial Setting Time	IS 1727
81	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Lime Reactivity	IS 1727
82	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness by Le-Chatelier Method	IS 1727
83	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
84	MECHANICAL- BUILDINGS MATERIALS	FRP Manhole Covers and Frame	Load test	BS EN 124-6
85	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Water Absorption	IS 2386 (Part 3)
86	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Abrasion Value - Los Angeles	IS 2386 (Part-4)
87	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Crushing Value	IS 2386 (Part-4)
88	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Elongation Index	IS 2386 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Flakiness Index	IS 2386 (Part 1)
90	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Impact Value	IS 2386 (Part 4)
91	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam / Water Bound Macadam	Sieve Analysis	IS 2386 (Part 1)
92	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	0.2% Proof Stress	IS 1608 (Part 1)
93	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Bend Test	IS 1599
94	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Elongation	IS 1608 (Part 1)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Mass per meter	IS 1786
96	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Rebend Test	IS 1786
97	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Ultimate Tensile Strength	IS 1608 (Part 1)
98	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars	Yield Stress	IS 1608 (Part 1)
99	MECHANICAL- BUILDINGS MATERIALS	Hot Applied Sealing Compounds	Flow test	IS 1834
100	MECHANICAL- BUILDINGS MATERIALS	Hot Applied Sealing Compounds	Pour Point	IS 1834
101	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Compressive Strength	IS 1727
102	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Final Setting Time	IS 1727
103	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Fineness	IS 1727
104	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Initial Setting Time	IS 1727
105	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Soundness by Le-Chatelier Method	IS 1727
106	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Specific Gravity	IS 1727
107	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs, Channels, Edgings, Quadrants And Gutter Apronsx`	Transverse Strength	BS 7263 (Part-1)
108	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs, Channels, Edgings, Quadrants And Gutter Apronsx`	Water Absorption	BS 7263 (Part-1)
109	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Manhole Cover and Frame	Load Test	IS 12592
110	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Abrasion Resistance	IS 15658 (Annex E)
111	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Compressive Strength	IS 15658 (Annex D)
112	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Dimensions-Length	IS 15658 (Annex B)
113	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Dimensions-Thickness	IS 15658 (Annex B)

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114	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Dimensions-Width	IS 15658 (Annex B)
115	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Flexural Strength	IS 15658 (Annex G)
116	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Plan Area	IS 15658 (Annex B)
117	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Split Tensile Test	IS 15658 (Annex F)
118	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Water Absorption	IS 15658 (Annex C)
119	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Compressive Strength	IS 2185 (Part-1)
120	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Density	IS 2185 (Part-1)
121	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Dimensions-Length	IS 2185 (Part-1)
122	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Dimensions-Thickness	IS 2185 (Part-1)
123	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Dimensions-Width	IS 2185 (Part-1)
124	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Compressive Strength	IS 4031 (Part-6)
125	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Density	IS 4031 (Part-11)
126	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Final Setting Time	IS 4031 (Part-5)
127	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Fineness by Dry Sieving	IS 4031 (Part-1)
128	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Initial Setting Time	IS 4031 (Part-5)
129	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Soundness by Le-Chatelier Method	IS 4031 (Part-3)
130	MECHANICAL- BUILDINGS MATERIALS	White Portland Cement	Standard Consistency	IS 4031 (Part 4)
131	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Plates, Chequered Plates, Dowel Bar, Prestressing steel, Hollow Section, Steel tubes, GI Pipes, Steel Beam, Steel Column, Steel Angles, Reinforced Coupler	Bend Test	IS 1599

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132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates, Chequered Plates, Dowel Bar, Prestressing steel, Hollow Section, Steel tubes, GI Pipes, Steel Beam, Steel Column, Steel Angles, Reinforced Coupler	Elongation	IS 1608 (Part-1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates, Chequered Plates, Dowel Bar, Prestressing steel, Hollow Section, Steel tubes, GI Pipes, Steel Beam, Steel Column, Steel Angles, Reinforced Coupler	Mass per meter	IS 1786
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates, Chequered Plates, Dowel Bar, Prestressing steel, Hollow Section, Steel tubes, GI Pipes, Steel Beam, Steel Column, Steel Angles, Reinforced Coupler	Ultimate Tensile Strength	IS 1608 (Part-1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates, Chequered Plates, Dowel Bar, Prestressing steel, Hollow Section, Steel tubes, GI Pipes, Steel Beam, Steel Column, Steel Angles, Reinforced Coupler	Yield Stress	IS 1608 (Part-1)
136	MECHANICAL- SOIL AND ROCK	Granular Sub Base	California Bearing Ratio	IS 2720 (Part 16)
137	MECHANICAL- SOIL AND ROCK	Granular Sub Base	Liquid Limit	IS 2720 (Part 5)
138	MECHANICAL- SOIL AND ROCK	Granular Sub Base	Plastic Limit	IS 2720 (Part 5)
139	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent Specific Gravity	IS 1124
140	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Compressive Strength	IS 1121 (Part-1)
141	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Porosity	IS 1124
142	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Water Absorption	IS 1124
143	MECHANICAL- SOIL AND ROCK	Rock	Abrasion Value - Los Angeles	IS 2386 (Part-4)
144	MECHANICAL- SOIL AND ROCK	Rock	Crushing Value	IS 2386 (Part-4)
145	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030
146	MECHANICAL- SOIL AND ROCK	Rock	Impact Value	IS 2386 (Part-4)
147	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
148	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 13030

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149	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
150	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
151	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
152	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)
153	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 4)
154	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction- MDD	IS 2720 (Part 8)
155	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction- OMC	IS 2720 (Part 8)
156	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction- MDD	IS 2720 (Part 7)
157	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction- OMC	IS 2720 (Part 7)
158	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
159	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
160	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
161	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)
162	MECHANICAL- SOIL AND ROCK	Soil	Water Content (Oven Drying)	IS 2720 (Part 2)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil-at Field	Dry Density by Core Cutter	IS 2720 (Part-29)
2	MECHANICAL- SOIL AND ROCK	Soil-at Field	Dry Density by Sand Replacement Method	IS 2720 (Part-28)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Carbonation	DIN EN 14630
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half-Cell Potential Difference	ASTM C876
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer	IS 13311 (Part 2)
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 (Part-5/ Sec-1)