National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : V&G INDUSTRIAL TESTING LABORATORIES PVT. LTD., PLOT NO.323, INDUSTRIAL AREA, BAIKAMPADY, MANGALURU, DAKSHIN KANNAD, KARNATAKA, INDIA

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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	CHEMICAL- BUILDING MATERIAL	Admixtures	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixtures	Chloride Ion Content	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixtures	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixtures	pH	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixtures	Relative Density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Aggregates	Acid Soluble Chloride	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Aggregates	Dissolved Silica	IS 2386 (Part 7)
8	CHEMICAL- BUILDING MATERIAL	Aggregates	Reduction in Alkalinity	IS 2386 (Part 7)
9	CHEMICAL- BUILDING MATERIAL	Aggregates	Sulphates	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Bitumen	Solubility in Trichloroethylene	IS 1216
11	CHEMICAL- BUILDING MATERIAL	Cement	Aluminium Oxide	IS 4032 cl 4.4
12	CHEMICAL- BUILDING MATERIAL	Cement	Calcium Oxide	IS 4032 cl 4.7.2
13	CHEMICAL- BUILDING MATERIAL	Cement	Chloride Content	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement	Iron Oxide	IS 4032 cl 4.5.2
16	CHEMICAL- BUILDING MATERIAL	Cement	Loss On Ignition	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement	Magnesia	IS 4032 cl 4.8.2
18	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS 4032

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19	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydride	IS 4032
20	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium Section	Anodic Coating	IS 5523
21	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanized articles	Mass Of Zinc Coating	IS 6745
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Carbon	IS 228 (Part 1)
23	CHEMICAL- METALS & ALLOYS	Plain carbon & Low alloy steels	Manganese	IS 228 (Part 2)
24	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Phosphorus	IS 228 (Part 3)
25	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Silicon	IS 228 (Part 8)
26	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Sulphur	IS 228 (Part 9)
27	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32)
28	CHEMICAL- WATER	Construction Water	Inorganic Fixed Residue	IS 3025 (Part 18)
29	CHEMICAL- WATER	Construction Water	Limits of Acidity	IS 456
30	CHEMICAL- WATER	Construction Water	Limits of Alkalinity	IS 456
31	CHEMICAL- WATER	Construction Water	Organic Volatile Residue	IS 3025 (Part 18)
32	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
33	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 (Part 24)
34	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part 17)
35	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1448 (Part 69)
37	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
38	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
39	MECHANICAL- BUILDINGS MATERIALS	Bituminous Material	Binder Content	IRC SP 11

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40	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks / Common Burnt Clay Building Bricks	Compressive Strength	IS 3495 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks / Common Burnt Clay Building Bricks	Dimension-Height	IS 1077
42	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks / Common Burnt Clay Building Bricks	Dimension-Length	IS 1077
43	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks / Common Burnt Clay Building Bricks	Dimension-Width	IS 1077
44	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks / Common Burnt Clay Building Bricks	Efflorescence	IS 3495 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks / Common Burnt Clay Building Bricks	Water Absorption	IS 3495 (Part 2)
46	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Compressive Strength	IS 4031 (Part 6)
47	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Consistency	IS 4031 (Part 4)
48	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Density	IS 4031 (Part 11)
49	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Final Setting time	IS 4031 (Part 5)
50	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Fineness By Blaine Air Permeability Method	IS 4031 (Part 2):1999
51	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Initial Setting time	IS 4031 (Part 5)
52	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Soundness By Autoclave	IS 4031 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Soundness By Le-Chatelier	IS 4031 (Part 3)
54	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Specific Gravity	IS 4031 (Part 11)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 percent fines	IS 2386 (Part 4)
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS 2386 (Part 4)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386 (Part 2)

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59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Light-weight pieces(Coal and lignite)	IS 2386 (Part 2)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Materials finer than 75micron	IS 2386 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (sieve size: 80,63,40,37.5,26.5,20,19,16,13.2,12.5,10,9.5, 4.75,2.36,1.18,0.6,0.3,0.15,0.075)	IS 2386 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness with Magnesium Sulphate	IS 2386 (Part 5)
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness with Sodium Sulphate	IS 2386 (Part 5)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part 3)
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part 3)
70	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 516 (Part 1 : Sec 1)
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386 (Part 2)
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay, fine silt and fine dust(Sedimentation Method)	IS 2386 (Part 2)
74	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Light-weight pieces(Coal and lignite)	IS 2386 (Part 2)
75	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials finer than 75micron	IS 2386 (Part 1)
76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part 2)

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77	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (sieve size: 10,4.75,2.36,1.18,0.6,0.3,0.15, 0.075)	IS 2386 (Part 1)
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness with Magnesium Sulphate	IS 2386 (Part 5)
79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness with Sodium Sulphate	IS 2386 (Part 5)
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 (Part 3)
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Part 3)
82	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Concrete Core)	Compressive Strength of Concrete Core	IS 516 (Part 4)
83	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
84	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
85	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	% of Elongation	IS 1608 (Part 1)
86	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Mass per Meter	IS 1786
87	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Re bend Test	IS 1786
88	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Ultimate Tensile Strength	IS 1608 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Yield Strength	IS 1608 (Part 1)
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Percentage Reduction in area	ASTM E8/E8M
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness(HV/10kgf)	ASTM E92
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	% Elongation	ASTM A370
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	% Reduction Area	ASTM A370

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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
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	% Reduction Area	IS 1608 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Bend	IS 1599
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Brinell Hardness (HBW/(2.5mm/187.5Kgf))	ASTM E10
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Brinell Hardness (HBW/(2.5mm/187.5kgf))	IS 1500 (Part 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Brinell Hardness (HBW/(2.5mm/187.5kgf))	ISO 6506 (Part 1)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Charpy Impact at +50 Degree Celsius to -196 Degree Celsius	ISO 148 (Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Charpy Pendulum Impact Test at +50 Degree Celsius to -196 Degree Celsius	IS 1757 (Part 1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Izod Impact Test @ room temperature	IS 1598
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	percentage Elongation	ASTM E8/ E8M
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Percentage of Elongation	IS 1608 (Part 1)
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Percentage of Elongation	ISO 6892-1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	tensile strength	ASTM A370
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Tensile Strength	ASTM E8/E8M
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Tensile Strength	IS 1608 (Part 1)

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108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Tensile Strength	ISO 6892-1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Vickers hardness (HV/10kgf)	ASTM E 92
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Vickers Hardness (HV/10kgf)	IS 1501 (Part 1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Vickers Hardness (HV/10kgf)	ISO 6507 (Part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Yield strength	ASTM A370
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Yield Strength	ASTM E8/E8M
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Yield Strength	IS 1608 (Part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Yield Strength	ISO 6892-1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials.,alloys & products	Percentage Reduction in Area	ISO 6892-1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimeds	% Elongation	IS 3600 (Part 4)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	API 1104
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	ASME Sec-IX QW-160
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	AWS B 4.0
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	IS 1599

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122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Brinell Hardness (HBW/(2.5mm/187.5Kgf))	ASTM E10
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Brinell Hardness (HBW/(2.5mm/187.5Kgf))	IS 1500 (Part 1)
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Charpy v notch at +50 Degree Celsius to -196 Degree Celsius	IS 3600 (Part 2)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Face Bend Test,Root bend test	IS 3600 (Part 5)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Fracture	ASME Sec-IX QW182
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Fracture	IS 3600 (Part 8)
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Izod Test @ room temperature	IS 1598
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Mass Per Meter	IS 1239 (Part 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Nick Break	API 1104
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Nick break	IS 3600 (Part 8)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Percentage Reduction in Area	IS 3600 (Part 4)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength	ASME Sec-IX QW 150
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength	IS 3600 (Part 3)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength	IS 3600 (Part 4)

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136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Transverse Tensile Strength	API 1104
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Transverse Yield Strength	API 1104
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness	IS 1501 (Part 1)
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Vickers Hardness HV10	ASTM E92
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Yield Strength	IS 3600 (Part 3)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Yield Strength	IS 3600 (Part 4)
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimes	Flattening (Metallic Tubes of Circular Cross Section)	IS 2328
143	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Etch	API 1104
144	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Etch	ASME Sec IIC
145	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Etch	ASME Sec IX QW 470
146	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Etch	ASME Sec IX QW183 & QW184
147	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Etch	IS 3600 (Part 9)
148	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macro Etch	ISO 17639
149	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	CBR	IS 2720(Part 16)
150	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Free Swell Index	IS 2720(Part 40)
151	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Grain Size Analysis (100 mm to 0.075 mm)	IS 2720 (Part 4)

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152	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Liquid Limit	IS 2720(Part 5)
153	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Maximum Dry Density by Heavy Compaction	IS 2720 (Part 8)
154	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Maximum Dry Density by Light Compaction	IS 2720 (part 7)
155	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Optimum Moisture Content by Heavy Compaction	IS 2720(Part 8)
156	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Optimum Moisture Content By Light Compaction	IS 2720 (Part 7)
157	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Plastic Limit	IS 2720(Part 5)
158	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer test	IS 516 (Part 5 : Sec 4)
159	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity tests	IS 516(Part 5 : Sec1)

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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
Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer test	IS 516 (Part 5 : Sec 4)
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity tests	IS 516(Part 5 : Sec1)