National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL DIVISION, S.M CONSULTANTS PRIVATE LIMITED, S.M. TOWER, PLOT NO.-130, MANCHESWAR INDUSTRIAL ESTATE, RASULGARH, BHUBANESWAR, KHORDHA, ODISHA, 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- ATMOSPHERIC POLLUTION	Ambient Air Pollution Measurement	Nitrogen Di Oxide (NO2)	IS:5182 (Pt-VI)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Pollution Measurement	Particulate matter- 2.5 (PM-2.5)	NAAQMS/36/2012-13/Volume-I
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Pollution Measurement	Particulate matter-10 (PM-10)	IS: 5182 (Part-23)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Pollution Measurement	Sulfur Di Oxide (SO2)	IS: 5182 (Pt-II)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Pollution Measurement	Suspended Particulate Matter (SPM)	IS:5182 (Pt-IV)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Noise Monitoring	Leq dB(A)	NAAQMS/36/2012-13/Volume-I
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxide of Nitrogen (NOx)	IS:11255 (Pt-7)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate matter	IS:11255(Pt-I)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulfur Di Oxide (SO2)	IS: 11255 (Pt-2)
10	CHEMICAL- BUILDING MATERIAL	Bitumen	Solubility in trichloroethylene	IS 1216
11	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Ash content	IS 9103
12	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Chloride content	IS 6925
13	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Dry material content	IS 9103
14	CHEMICAL- BUILDING MATERIAL	Concrete admixture	pH	IS 9103
15	CHEMICAL- BUILDING MATERIAL	Concrete admixture	Relative density	IS 9103
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical oxygen Demand (BOD)	IS: 3025 (Part-44)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Chemical Oxygen Demand (COD)	IS: 3025 (Part-58)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Oil & Grease	IS: 3025 (Part-39)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	pH	IS:3025 (Part 11)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Total Suspended solids	IS:3025 (Part 17)
21	CHEMICAL- SOIL AND ROCK	Soil	Calcium carbonate	IS 2720 (Part 23)
22	CHEMICAL- SOIL AND ROCK	Soil	Organic matter	IS 2720 (Part 22)
23	CHEMICAL- SOIL AND ROCK	Soil	pH value	IS 2720 (Part 26)
24	CHEMICAL- SOIL AND ROCK	Soil	Total soluble sulphate	IS 2720 (Part 27)
25	CHEMICAL- WATER	Construction Water	Acidity	IS:456/IS:3025 (Part 22)
26	CHEMICAL- WATER	Construction Water	Chloride	IS:456/ IS:3025 (Part 32)
27	CHEMICAL- WATER	Construction Water	Inorganic Content	IS:456/IS:3025 (Part 18)
28	CHEMICAL- WATER	Construction Water	Organic Content	IS:456/ IS:3025 (Part 18)
29	CHEMICAL- WATER	Construction Water	pH	IS:456/ IS:3025 (Part 11)
30	CHEMICAL- WATER	Construction Water	Sulphate	IS:456/ IS:3025 (Part 24)
31	CHEMICAL- WATER	Construction Water	Total Alkalinity	IS:456/ IS:3025 (Part 23)
32	CHEMICAL- WATER	Construction Water	Total Suspended Solid	IS:456/IS:3025 (Part 17)
33	CHEMICAL- WATER	Drinking Water	Calcium	IS:3025(Part 40)
34	CHEMICAL- WATER	Drinking Water	Chloride	IS:3025(Part 32)
35	CHEMICAL- WATER	Drinking Water	Chromium	IS:3025 (Part 52)
36	CHEMICAL- WATER	Drinking Water	Conductivity	IS:3025(Part 14)
37	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS:3025 (Part 38)
38	CHEMICAL- WATER	Drinking Water	Iron	IS:3025 (Part 53)
39	CHEMICAL- WATER	Drinking Water	Magnesium	IS:3025 (Part 46)
40	CHEMICAL- WATER	Drinking Water	pH	IS:3025(Part 11)
41	CHEMICAL- WATER	Drinking Water	Silica	IS:3025 (Part 35)
42	CHEMICAL- WATER	Drinking Water	Sulphate	IS:3025(Part 24)
43	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS:3025 (Part 23)
44	CHEMICAL- WATER	Drinking Water	Total Dissolved solid	IS:3025(Part 16)
45	CHEMICAL- WATER	Drinking Water	Total Hardness	IS:3025(Part 21)

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46	CHEMICAL- WATER	Drinking Water	Total Suspended Solid	IS:3025(Part 17)
47	CHEMICAL- WATER	Drinking Water	Turbidity	IS:3025(Part 10)
48	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Pt.II)
49	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility Test	IS: 1208
50	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS: 1209
51	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Hardness (Mastic asphalt)	IS -1195
52	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Homogeneity of Bitumen	IS: 73
53	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS: 1206 (Pt.III)
54	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test	IS: 1203
55	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS: 1205
56	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Ductility Test	IS: 1208
57	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Penetration	IS: 1203
58	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 mic	IS – 8887
59	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Compressive Strength	IS: 4031 (Pt-6)
60	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Final Setting Time	IS: 4031 (Part-5)
61	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Fineness by dry sieving (% of residue)	IS: 4031 (Pt-1)
62	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Initial Setting Time	IS: 4031 (Part-5)
63	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Normal consistency (Standard consistency)	IS: 4031 (Pt-4)
64	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Soundness (Le-Chatelier Method)	IS: 4031(Pt-3)
65	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC/ PSC)	Specific Gravity	IS: 4031 (Pt-11)

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66	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete tiles	Dimension - Breadth	IS:13801
67	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete tiles	Dimension - Length	IS:13801
68	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete tiles	Dimension - Thickness	IS:13801
69	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete tiles	Resistance to wear	IS:13801
70	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete tiles	Water Absorption	IS:13801
71	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete tiles	Wet Transverse Strength	IS 13801
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fine Value	IS: 2386 (Part-IV)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS: 2386 (Part-III)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS: 2386 (Part-IV)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS: 2386 (Part-I)
76	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS: 2386 (Part-I)
77	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS: 2386 (Part-IV)
78	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angles Abrasion Value	IS: 2386 (Part-IV)
79	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis	IS: 2386 (Part-1)
80	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific gravity	IS: 2386 (Part-III)
81	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS: 2386 (Part-III)
82	MECHANICAL- BUILDINGS MATERIALS	Common burnt clay building bricks	Dimensions - Breath	IS: 1077
83	MECHANICAL- BUILDINGS MATERIALS	Common burnt clay building bricks	Dimensions - Height	IS: 1077
84	MECHANICAL- BUILDINGS MATERIALS	Common burnt clay building bricks	Dimensions - Length	IS: 1077

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85	MECHANICAL- BUILDINGS MATERIALS	Common burnt clay building bricks & Pulverized fuel ash-lime bricks	Efflorescence	IS: 3495 (Pt III)
86	MECHANICAL- BUILDINGS MATERIALS	Common burnt clay building bricks & Pulverized fuel ash-lime bricks	Water Absorption	IS:3495 (Pt II)
87	MECHANICAL- BUILDINGS MATERIALS	Common burnt clay building bricks & Pulverized fuel ash-lime bricks	Wet Compressive Strength	IS: 3495 (Pt I)
88	MECHANICAL- BUILDINGS MATERIALS	Concrete	Accelerated testing of concrete by boiling water method	IS 9013
89	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of core	IS: 516
90	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of cube	IS: 516
91	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength of beam	IS: 516
92	MECHANICAL- BUILDINGS MATERIALS	Concrete	Permeability	IS 3085
93	MECHANICAL- BUILDINGS MATERIALS	Concrete Block	Compressive Strength	IS:2185-Part 1
94	MECHANICAL- BUILDINGS MATERIALS	Concrete Block	Density	IS:2185-Part 1
95	MECHANICAL- BUILDINGS MATERIALS	Concrete Block	Water Absorption	IS:2185-Part 1
96	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Dimension - Breadth	IS:1237
97	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Dimension - Length	IS:1237
98	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Dimension - Thickness	IS:1237
99	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Flatness of the tile surface	IS 1237
100	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Perpendicularity	IS 1237
101	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Resistance to wear	IS:1237
102	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Straightness	IS 1237
103	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Thickness of wearing layer	IS: 1237

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104	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Visual Inspection	IS: 1237
105	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Water Absorption	IS:1237
106	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Wet Transverse Strength	IS:1237
107	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS: 2386 (Part-III)
108	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis	IS: 2386 (Part-1)
109	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific gravity	IS: 2386 (Part-III)
110	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS: 2386 (Part-III)
111	MECHANICAL- BUILDINGS MATERIALS	Glazed / Ceramic Tiles	Dimension - Breadth	IS:13630 (Part 1)
112	MECHANICAL- BUILDINGS MATERIALS	Glazed / Ceramic Tiles	Dimension - Length	IS:13630 (Part 1)
113	MECHANICAL- BUILDINGS MATERIALS	Glazed / Ceramic Tiles	Dimension - Thickness	IS:13630 (Part 1)
114	MECHANICAL- BUILDINGS MATERIALS	Glazed / Ceramic Tiles	Modulus of Rupture	IS:13630 (Part 6)
115	MECHANICAL- BUILDINGS MATERIALS	Glazed / Ceramic Tiles	Water Absorption	IS:13630 (Part 2)
116	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS:15658
117	MECHANICAL- BUILDINGS MATERIALS	Paver block	Colour and texture	IS 15658
118	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS:15658
119	MECHANICAL- BUILDINGS MATERIALS	Paver block	Dimension - Breadth	IS 15658
120	MECHANICAL- BUILDINGS MATERIALS	Paver block	Dimension - Length	IS 15658
121	MECHANICAL- BUILDINGS MATERIALS	Paver block	Dimension - Thickness	IS 15658
122	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Flexural Strength	IS:15658

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123	MECHANICAL- BUILDINGS MATERIALS	Paver block	Thickness of wearing layer	IS 15658
124	MECHANICAL- BUILDINGS MATERIALS	Paver block	Visual inspection	IS 15658
125	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
126	MECHANICAL- BUILDINGS MATERIALS	Paving mixture	Bitumen content	ASTM D 2172
127	MECHANICAL- BUILDINGS MATERIALS	Paving Mixture	Marshall Stability	AASHTO T245
128	MECHANICAL- BUILDINGS MATERIALS	Pulverized fuel ash-lime bricks	Dimension - Length	IS: 12894
129	MECHANICAL- BUILDINGS MATERIALS	Pulverized fuel ash-lime bricks	Dimensions - Breath	IS: 12894
130	MECHANICAL- BUILDINGS MATERIALS	Pulverized fuel ash-lime bricks	Dimensions - Height	IS: 12894
131	MECHANICAL- BUILDINGS MATERIALS	Pulverized fuel ash-lime bricks	Visual inspection	IS: 12894
132	MECHANICAL- BUILDINGS MATERIALS	Pulverized fuel-ash lime bricks	Drying Shrinkage	IS 4139
133	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS: 1608 (Part 1)
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS: 1599
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Effective cross-sectional Area	IS: 1786
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass/meter	IS: 1786
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-bend Test	IS: 1786
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS: 1608 (Part 1)

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139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS: 1608 (Part 1)
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	% Elongation	IS: 1608 (Part 1)
141	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Bend Test	IS: 1599
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Tensile Strength	IS: 1608 (Part 1)
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Yield Stress	IS: 1608 (Part 1)
144	MECHANICAL- SOIL AND ROCK	Rock	Brazilian Test (Tensile Strength)	IS:10082
145	MECHANICAL- SOIL AND ROCK	Rock	Dry/Wet density	IS:13030
146	MECHANICAL- SOIL AND ROCK	Rock	Point Load Strength	IS:8764
147	MECHANICAL- SOIL AND ROCK	Rock	Slake Durability Test	IS:10050
148	MECHANICAL- SOIL AND ROCK	Rock	Specific gravity Test	IS:1124
149	MECHANICAL- SOIL AND ROCK	Rock	Un-confined Compressive Strength	IS:9143
150	MECHANICAL- SOIL AND ROCK	Rock	Water absorption Test	IS:1124
151	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Liquid Limit)	IS: 2720 (Part 5)
152	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Plastic Limit)	IS: 2720 (Part 5)
153	MECHANICAL- SOIL AND ROCK	Soil	Bulk density	SOP No. 01, Sec-4
154	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS:2720(Part-16)
155	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Pressure)	IS 2720 (Part-15)

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156	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Settlement)	IS 2720 (Part-15)
157	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of internal friction)	IS 2720 (Part-13)
158	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (cohesion)	IS 2720 (Part-13)
159	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
160	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Passing 4.75 mm IS sieve and retained on 75 micron IS sieve)	IS: 2720 (Pt-IV) (Clause 4.0)
161	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (soil fraction retained on 4.75 mm IS sieve)	IS: 2720 (Pt-IV) (Clause 3.0)
162	MECHANICAL- SOIL AND ROCK	Soil	Heavy compaction (MDD)	IS: 2720 (Part VIII)
163	MECHANICAL- SOIL AND ROCK	Soil	Heavy compaction (OMC)	IS: 2720 (Part VIII)
164	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer analysis	IS : 2720 (Part 4)
165	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test (MDD)	IS: 2720 (Part VII)
166	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test (OMC)	IS: 2720 (Part VII)
167	MECHANICAL- SOIL AND ROCK	Soil	Permeability Test	IS 2720 (Part-17)
168	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage limit	IS 2720 (Part-VI)
169	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (Pt-III) Sec. 1 / 2
170	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Compression Test Without pore pressure (angle of internal friction)	IS: 2720 (Part –11)
171	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Compression Test Without pore pressure (Cohesion)	IS: 2720 (Part –11)
172	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compression test	IS 2720 (Part-10)

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173	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS: 2720 (Part-II)
174	MECHANICAL- WOOD AND WOOD PRODUCTS	Ply wood	Moisture content	IS : 1708 (Part 1)
175	MECHANICAL- WOOD AND WOOD PRODUCTS	Wood	Moisture content	IS : 1708 (Part 1)
176	MECHANICAL- WOOD AND WOOD PRODUCTS	Wood	Density	SOP No. 01, Sec. -15
177	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Rebound Hammer Test	Rebound Number (By Rebound Hammer)	IS: 516 (Part 5/Sec 4)
178	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Ultrasonic Pulse Velocity Test	Ultrasonic Pulse Time (By UPV instrument)	IS: 516 (Part 5/Sec 1)
179	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Ultrasonic Pulse Velocity Test	Ultrasonic Pulse Velocity (By UPV instrument)	IS: 516 (Part 5/Sec 1)