National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIABLE TEST HOUSE, 43B, REGAL RESIDENCY, MIRZAPUR PULIYA,, LUCKNOW, UTTAR PRADESH, 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	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Alumina	IS 4032
2	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Calcium Oxide	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Ferric Oxide	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Silica	IS 4032
5	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Chloride	IS 4032
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Insoluble Residue	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Magnesia	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Sulphuric Anhydride	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement(OPC/PPC)	Loss on Ignition	IS 4032
10	CHEMICAL- METALS & ALLOYS	Steel	Carbon	IS 228 (Part 1)
11	CHEMICAL- METALS & ALLOYS	Steel	Phosphorus	IS 228 (Part 3)
12	CHEMICAL- METALS & ALLOYS	Steel	Sulphur	IS 228 (Part 9)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / STP Water/ ETP Water	Oil & Grease	IS 3025 (Part 39)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Dissolved Oxygen	IS 3025 (Part 38)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Dissolved Phosphate (as P)	IS 3025 (Part 31)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Total Kjeldahl Nitrogen	IS 3025 (Part 34)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Total Suspended Solids(Non Filterable Residue)	IS 3025 (Part 17)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ ETP Water	BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ ETP Water	COD	IS 3025 (Part 58)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ ETP Water	pH Value	IS 3025 (Part 11)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ETP Water	Ammoniacal Nitrogen	IS 3025 (Part 34)
22	CHEMICAL- WATER	Drinking Water	Acidity	IS 3025 (Part 22)
23	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part 23)
24	CHEMICAL- WATER	Drinking Water	Arsenic	IS 3025 (Part 37)
25	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40)
26	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32)
27	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4)
28	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS 3025 (Part 14)
29	CHEMICAL- WATER	Drinking Water	Fluoride	4500-F D. APHA 23rd Edition
30	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part 53)
31	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part 46)
32	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	4500 NO3 B- APHA 23rd Edition
33	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
34	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part 11)
35	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24)
36	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 7)
37	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (Filterable Residue)	IS 3025 (Part 16)
38	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCO3)	IS 3025 (Part 21)
39	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
40	CHEMICAL- WATER	Ground Water / Borewell Water	Acidity	IS 3025 (Part 22)
41	CHEMICAL- WATER	Ground Water / Borewell Water	Alkalinity	IS 3025 (Part 23)
42	CHEMICAL- WATER	Ground Water / Borewell Water	Arsenic	IS 3025 (Part 37)
43	CHEMICAL- WATER	Ground Water / Borewell Water	Calcium	IS 3025 (Part 40)
44	CHEMICAL- WATER	Ground Water / Borewell Water	Chloride	IS 3025 (Part 32)
45	CHEMICAL- WATER	Ground Water / Borewell Water	Electrical Conductivity	IS 3025 (Part 14)
46	CHEMICAL- WATER	Ground Water / Borewell Water	Fluoride	4500-F D.APHA 23rd Edition

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47	CHEMICAL- WATER	Ground Water / Borewell Water	Iron	IS 3025 (Part 53)
48	CHEMICAL- WATER	Ground Water / Borewell Water	Magnesium	IS 3025 (Part 46)
49	CHEMICAL- WATER	Ground Water / Borewell Water	Nitrate	4500-NO3 B. APHA 23rd Edition
50	CHEMICAL- WATER	Ground Water / Borewell Water	Odour	IS 3025 (Part 5)
51	CHEMICAL- WATER	Ground Water / Borewell Water	pH Value	IS 3025 (Part 11)
52	CHEMICAL- WATER	Ground Water / Borewell Water	Potassium	IS 3025 (Part 45)
53	CHEMICAL- WATER	Ground Water / Borewell Water	Sodium	IS 3025 (Part 45)
54	CHEMICAL- WATER	Ground Water / Borewell Water	Sulphate	IS 3025 (Part 24)
55	CHEMICAL- WATER	Ground Water / Borewell Water	Taste	IS 3025 (Part 7)
56	CHEMICAL- WATER	Ground Water / Borewell Water	Total Dissolved Solids	IS 3025 (Part 16)
57	CHEMICAL- WATER	Ground Water / Borewell Water	Total Hardness	IS 3025 (Part 21)
58	CHEMICAL- WATER	Ground Water / Borewell Water	Turbidity	IS 3025 (Part 10)
59	CHEMICAL- WATER	Ground Water/ Borewell Water	Colour	IS 3025 (Part 4)
60	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	IS 3025 (Part 23)
61	CHEMICAL- WATER	Packaged Drinking Water	Arsenic	IS 3025 (Part 37)
62	CHEMICAL- WATER	Packaged Drinking Water	Calcium	IS 3025 (Part 40)
63	CHEMICAL- WATER	Packaged Drinking Water	Chloride	IS 3025 (Part 32)
64	CHEMICAL- WATER	Packaged Drinking Water	Colour	IS 3025 (Part 4)
65	CHEMICAL- WATER	Packaged Drinking Water	Fluoride	4500-F D. APHA 23rd Edition
66	CHEMICAL- WATER	Packaged Drinking Water	Iron	IS 3025 (Part 53)
67	CHEMICAL- WATER	Packaged Drinking Water	Magnesium	IS 3025 (Part 46)
68	CHEMICAL- WATER	Packaged Drinking Water	Nitrate	4500-NO3 B. APHA 23rd Edition
69	CHEMICAL- WATER	Packaged Drinking Water	Odour	IS 3025 (Part 5)
70	CHEMICAL- WATER	Packaged Drinking Water	pH value	IS 3025 (Part 11)
71	CHEMICAL- WATER	Packaged Drinking Water	Potassium	IS 3025 (Part 45)
72	CHEMICAL- WATER	Packaged Drinking Water	Sodium	IS 3025 (Part 45)
73	CHEMICAL- WATER	Packaged Drinking Water	Sulphate (as SO4)	IS 3025 (Part 24)
74	CHEMICAL- WATER	Packaged Drinking Water	Taste	IS 3025 (Part 8)
75	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
76	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	IS 3025 (Part 21)

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77	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	IS 3025 (Part 10)
78	CHEMICAL- WATER	Surface Water	Acidity	IS 3025 (Part 22)
79	CHEMICAL- WATER	Surface Water	Alkalinity	IS 3025 (Part 23)
80	CHEMICAL- WATER	Surface Water	Arsenic	IS 3025 (Part 37)
81	CHEMICAL- WATER	Surface Water	Calcium	IS 3025 (Part 40)
82	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part 32)
83	CHEMICAL- WATER	Surface Water	Colour	IS 3025 (Part 4)
84	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38)
85	CHEMICAL- WATER	Surface Water	Electrical Conductivity (Specific Conductance)	IS 3025 (Part 14)
86	CHEMICAL- WATER	Surface Water	Fluoride	4500 - F D. APHA 23rd Edition
87	CHEMICAL- WATER	Surface Water	Iron	IS 3025 (Part 53)
88	CHEMICAL- WATER	Surface Water	Magnesium	IS 3025 (Part 46)
89	CHEMICAL- WATER	Surface Water	Nitrate	4500-NO3 B. APHA 23rd Edition
90	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5)
91	CHEMICAL- WATER	Surface Water	pH Value	IS 3025 (Part 11)
92	CHEMICAL- WATER	Surface Water	Potassium	IS 3025 (Part 45)
93	CHEMICAL- WATER	Surface Water	Sodium	IS 3025 (Part 45)
94	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part 24)
95	CHEMICAL- WATER	Surface Water	Taste	IS 3025 (Part 7)
96	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
97	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 (Part 21)
98	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)
99	CHEMICAL- WATER	Water for construction purpose	Acidity(Volume of 0.02N NaOH consumed to neutralize 100ml sample of water using Phenolphthalein Indicator)	IS 3025 (Part 22)
100	CHEMICAL- WATER	Water for construction purpose	Alkalinity(Volume of 0.02N H2SO4 consumed to neutralize 100 ml sample of water using mixed Indicator)	IS 3025 (Part 23)
101	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part 32)
102	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids (Fixed Solids)	IS 3025 (Part 18)

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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
103	CHEMICAL- WATER	Water for construction purpose	Organic Solids(Volatile Solids)	IS 3025 (Part 18)
104	CHEMICAL- WATER	Water for construction purpose	pH Value	IS 3025 (Part 11)
105	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (Part 24)
106	CHEMICAL- WATER	Water for construction purpose	Total Dissolved Solids	IS 3025 (Part 16)
107	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids(Non-Filterable Residue)	IS 3025 (Part 17)
108	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Bulk Density	IS 6441 (Part 1)
109	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5)
110	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension (Width)	IS 2185 (Part 3)
111	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS 6441 (Part 1)
112	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Height)	IS 2185 (Part 3)
113	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Length)	IS 2185 (Part 3)
114	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Brick	Dimension- Length	IS 1077
115	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Bricks	Compressive Strength	IS 3495 (Part 1)
116	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Bricks	Dimension- Height	IS 1077
117	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Bricks	Dimension- Width	IS 1077
118	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Bricks	Efflorescence	IS 3495 (Part 3)
119	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
120	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
121	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 (Part 4)
122	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)

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123	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part5)
124	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness By Blaine Air Permeability Method	IS 4031 (Part 2)
125	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part5)
126	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness	IS 4031 (Part 3)
127	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
128	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
129	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
130	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
131	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
132	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 80mm to 2.36mm)	IS 2386 (Part 1)
133	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
134	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
135	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
136	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength by Accelerated Curing Method	IS 9013
137	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
138	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Fineness Modulus	IS 2386 (Part 1)
139	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer Than 75 Micron	IS 2386 (Part 1)
140	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(Sieve Size: 10mm to 0.150mm)	IS 2386 (Part 1)
141	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)

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142	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
143	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 (Part 1/Sec 1)
144	MECHANICAL- BUILDINGS MATERIALS	Hot Rolled Medium And High Tensile Structural Steel / ERW Steel Tube	Percentage Elongation	IS 1608 (Part 1)
145	MECHANICAL- BUILDINGS MATERIALS	Hot Rolled Medium And High Tensile Structural Steel / ERW Steel Tube	Tensile Strength	IS 1608 (Part 1)
146	MECHANICAL- BUILDINGS MATERIALS	Hot Rolled Medium And High Tensile Structural Steel/ERW Steel Tubes	Yield Stress	IS 1608 (Part 1)
147	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annex D)
148	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS 15658(Annex B)
149	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex C)
150	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bar	Bend	IS 1599
151	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bar	Elongation	IS 1608 (Part 1)
152	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bar	Mass Per Metre	IS 1786
153	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bar	Rebend	IS 1786
154	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bar	Tensile Strength	IS 1608 (Part 1)
155	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bar	Yield Strees/0.2 percent Proof Stress	IS 1608 (Part 1)
156	MECHANICAL- SOIL- BASIC	Soil	CBR Value	IS 2720 (Part 16)
157	MECHANICAL- SOIL- BASIC	Soil	Consolidation Test (Compression Index, Cc)	IS 2720 (Part 15)
158	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (Angle of Shearing Resistance)	IS 2720 (Part 13)
159	MECHANICAL- SOIL- BASIC	Soil	Direct Shear Test (Cohesion Intercept, c)	IS 2720 (Part 13)
160	MECHANICAL- SOIL- BASIC	Soil	Free Swell Index	IS 2720 (Part 40)
161	MECHANICAL- SOIL- BASIC	Soil	Grain Size Analysis (Grain Size: 100mm to 0.002mm)	IS 2720 (Part 4)

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162	MECHANICAL- SOIL- BASIC	Soil	Liquid Limit	IS 2720 (Part 5)
163	MECHANICAL- SOIL- BASIC	Soil	Maximum Dry Density (Heavy Compaction)	IS 2720 (Part 8)
164	MECHANICAL- SOIL- BASIC	Soil	Maximum Dry Density (Light Compaction)	IS 2720 (Part 7)
165	MECHANICAL- SOIL- BASIC	Soil	Optimum Moisture Content (Heavy Compaction)	IS 2720 (Part 8)
166	MECHANICAL- SOIL- BASIC	Soil	Optimum Moisture Content (Light Compaction)	IS 2720 (Part 7)
167	MECHANICAL- SOIL- BASIC	Soil	Plastic Limit	IS 2720 (Part 5)
168	MECHANICAL- SOIL- BASIC	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)
169	MECHANICAL- SOIL- BASIC	Soil	Triaxial Test (Angle of Shearing Resistance)	IS 2720 (Part 11)
170	MECHANICAL- SOIL- BASIC	Soil	Triaxial Test (Cohesion Intercept, c)	IS 2720 (Part 11)
171	MECHANICAL- SOIL- BASIC	Soil	Water Content By Oven Drying Method	IS 2720 (Part 2)
172	MECHANICAL- SOIL- FIELD	Soil	Standard Penetration Test	IS 2131

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Site Facility				
1	MECHANICAL- SOIL- FIELD	Soil	Dry Density Of Soils In-Place By The Core Cutter Method	IS 2720 (Part 29)
2	MECHANICAL- SOIL- FIELD	Soil	Dry Density of Soils In-Place By The Sand Replacement Method	IS 2720 (Part 28)

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.