



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

RELIABLE TEST HOUSE PRIVATE LIMITED, 43B, REGAL RESIDENCY, MIRZAPUR PULIYA, LUCKNOW,
UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-15963

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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 Testing				
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	Manganese	IS 228 (Part 2)
12	CHEMICAL- METALS & ALLOYS	Steel	Phosphorus	IS 228 (Part 3)
13	CHEMICAL- METALS & ALLOYS	Steel	Silicon	IS 228 (Part 8)
14	CHEMICAL- METALS & ALLOYS	Steel	Sulphur	IS 228 (Part 9)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / STP Water/ ETP Water	Oil & Grease	IS 3025 (Part 39)



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16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Dissolved Oxygen	IS 3025 (Part 38)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Dissolved Phosphate (as P)	IS 3025 (Part 31/Sec.1)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Total Kjeldahl Nitrogen	IS 3025 (Part 34/Sec.1)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/ STP Water/ ETP Water	Total Suspended Solids(Non Filterable Residue)	IS 3025 (Part 17)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ ETP Water	BOD (Biochemical Oxygen Demand)	IS 3025 (Part 44)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ ETP Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ ETP Water	pH Value	IS 3025 (Part 11)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water/STP Water/ETP Water	Ammoniacal Nitrogen	IS 3025 (Part 34/Sec.1)
24	CHEMICAL- WATER	Drinking Water	Acidity	IS 3025 (Part 22)
25	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part 23)
26	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40)
27	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32)
28	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4)
29	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS 3025 (Part 14)
30	CHEMICAL- WATER	Drinking Water	Fluoride	4500-F D. APHA 24th Edition
31	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part 53)



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32	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part 46)
33	CHEMICAL- WATER	Drinking Water	Nitrate as NO ₃	4500 NO ₃ B- APHA 24th Edition
34	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
35	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part 11)
36	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24/Sec.1)
37	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 7)
38	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (Filterable Residue)	IS 3025 (Part 16)
39	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCO ₃)	IS 3025 (Part 21)
40	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
41	CHEMICAL- WATER	Ground Water / Borewell Water	Acidity	IS 3025 (Part 22)
42	CHEMICAL- WATER	Ground Water / Borewell Water	Alkalinity	IS 3025 (Part 23)
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 24th Edition
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-NO ₃ B. APHA 24th 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/Sec.1)
55	CHEMICAL- WATER	Ground Water / Borewell Water	Taste	IS 3025 (Part 7)



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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	Calcium	IS 3025 (Part 40)
62	CHEMICAL- WATER	Packaged Drinking Water	Chloride	IS 3025 (Part 32)
63	CHEMICAL- WATER	Packaged Drinking Water	Colour	IS 3025 (Part 4)
64	CHEMICAL- WATER	Packaged Drinking Water	Fluoride	4500-F D. APHA 24th Edition
65	CHEMICAL- WATER	Packaged Drinking Water	Iron	IS 3025 (Part 53)
66	CHEMICAL- WATER	Packaged Drinking Water	Magnesium	IS 3025 (Part 46)
67	CHEMICAL- WATER	Packaged Drinking Water	Nitrate	4500-NO3 B. APHA 24th Edition
68	CHEMICAL- WATER	Packaged Drinking Water	Odour	IS 3025 (Part 5)
69	CHEMICAL- WATER	Packaged Drinking Water	pH value	IS 3025 (Part 11)
70	CHEMICAL- WATER	Packaged Drinking Water	Potassium	IS 3025 (Part 45)
71	CHEMICAL- WATER	Packaged Drinking Water	Sodium	IS 3025 (Part 45)
72	CHEMICAL- WATER	Packaged Drinking Water	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec.1)
73	CHEMICAL- WATER	Packaged Drinking Water	Taste	IS 3025 (Part 8)
74	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
75	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	IS 3025 (Part 21)
76	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	IS 3025 (Part 10)
77	CHEMICAL- WATER	Surface Water	Acidity	IS 3025 (Part 22)
78	CHEMICAL- WATER	Surface Water	Alkalinity	IS 3025 (Part 23)
79	CHEMICAL- WATER	Surface Water	Calcium	IS 3025 (Part 40)
80	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part 32)
81	CHEMICAL- WATER	Surface Water	Colour	IS 3025 (Part 4)



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82	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38)
83	CHEMICAL- WATER	Surface Water	Electrical Conductivity (Specific Conductance)	IS 3025 (Part 14)
84	CHEMICAL- WATER	Surface Water	Fluoride	4500 - F D. APHA 24th Edition
85	CHEMICAL- WATER	Surface Water	Iron	IS 3025 (Part 53)
86	CHEMICAL- WATER	Surface Water	Magnesium	IS 3025 (Part 46)
87	CHEMICAL- WATER	Surface Water	Nitrate	4500-NO3 B. APHA 24th Edition
88	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5)
89	CHEMICAL- WATER	Surface Water	pH Value	IS 3025 (Part 11)
90	CHEMICAL- WATER	Surface Water	Potassium	IS 3025 (Part 45)
91	CHEMICAL- WATER	Surface Water	Sodium	IS 3025 (Part 45)
92	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part 24/Sec.1)
93	CHEMICAL- WATER	Surface Water	Taste	IS 3025 (Part 7)
94	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
95	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 (Part 21)
96	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)
97	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)
98	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)
99	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part 32)
100	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids (Fixed Solids)	IS 3025 (Part 18)



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101	CHEMICAL- WATER	Water for construction purpose	Organic Solids(Volatile Solids)	IS 3025 (Part 18)
102	CHEMICAL- WATER	Water for construction purpose	pH Value	IS 3025 (Part 11)
103	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (Part 24/Sec.1)
104	CHEMICAL- WATER	Water for construction purpose	Total Dissolved Solids	IS 3025 (Part 16)
105	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids(Non-Filterable Residue)	IS 3025 (Part 17)
106	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Bulk Density	IS 6441 (Part 1)
107	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5)
108	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension (Width)	IS 2185 (Part 3)
109	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS 6441 (Part 1)
110	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Height)	IS 2185 (Part 3)
111	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension (Length)	IS 2185 (Part 3)
112	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension- Height	IS 1077
113	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension- Length	IS 1077
114	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension- Width	IS 1077



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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	Efflorescence	IS 3495 (Part 3)
117	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
118	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
119	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
120	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
121	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
122	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
123	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4)
124	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 80mm to 2.36mm)	IS 2386 (Part 1)
125	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness(By Magnesium Sulphate Solution)	IS 2386 (Part 5)
126	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness(By Sodium Sulphate Solution)	IS 2386 (Part 5)



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127	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
128	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
129	MECHANICAL-BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
130	MECHANICAL-BUILDINGS MATERIALS	Concrete Cube	Compressive Strength by Accelerated Curing Method	IS 9013
131	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
132	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Materials Finer Than 75 Micron	IS 2386 (Part 1)
133	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(Sieve Size: 10mm to 0.150mm)	IS 2386 (Part 1)
134	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness (By Sodium Sulphate Solution)	IS 2386 (Part 5)
135	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness(By Magnesium Sulphate Solution)	IS 2386 (Part- 5)
136	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
137	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
138	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 (Part 1/Sec 1)



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139	MECHANICAL-BUILDINGS MATERIALS	Hot Rolled Medium And High Tensile Structural Steel / ERW Steel Tube	Percentage Elongation	IS 1608 (Part 1)
140	MECHANICAL-BUILDINGS MATERIALS	Hot Rolled Medium And High Tensile Structural Steel / ERW Steel Tube	Tensile Strength	IS 1608 (Part 1)
141	MECHANICAL-BUILDINGS MATERIALS	Hot Rolled Medium And High Tensile Structural Steel / ERW Steel Tube	Yield Stress	IS 1608 (Part 1)
142	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Compressive Strength	IS 4031 (Part 6)
143	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Consistency	IS 4031 (Part 4)
144	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Density	IS 4031 (Part 11)
145	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Final Setting Time	IS 4031 (Part 5)
146	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Fineness By Blaine Air Permeability Method	IS 4031 (Part 2)
147	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Initial Setting Time	IS 4031 (Part 5)
148	MECHANICAL-BUILDINGS MATERIALS	Ordinary Portland Cement (OPC 33 Grade, OPC 43 Grade, OPC 53 Grade)	Soundness (By Le-Chatelier Method)	IS 4031 (Part 3)
149	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annex D)
150	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Dimension (Length)	IS 15658 (ANNEX B)



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151	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS 15658(Annex B)
152	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Dimension (Width)	IS 15658 (ANNEX B)
153	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex C)
154	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Compressive Strength	IS 4031 (Part 6)
155	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Consistency	IS 4031 (Part 4)
156	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Density	IS 4031 (Part 11)
157	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Final Setting Time	IS 4031 (Part5)
158	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Fineness By Blaine Air Permeability Method	IS 4031 (Part 2)
159	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Initial Setting Time	IS 4031 (Part5)
160	MECHANICAL-BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Soundness (By Le-Chatelier Method)	IS 4031 (Part 3)
161	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel Bar	Bend Test	IS 1599
162	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel Bar	Elongation	IS 1608 (Part 1)



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163	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel Bar	Mass Per Metre	IS 1786
164	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel Bar	Rebend	IS 1786
165	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel Bar	Tensile Strength	IS 1608 (Part 1)
166	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel Bar	Yield Strees	IS 1608 (Part 1)



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Site Testing				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Pile	Low Strain Pile Integrity Test	IS 14893
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Rebound Hammer Test	IS 516 (Part 5/Sec 4)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic Pulse Velocity Testing	IS 516 (Part 5/Sec 1)

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.