National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAHUL ENGINEERS LABORATORY, 5-A, CHITRAKUT NAGAR, BHUWANA, UDAIPUR, RAJASTHAN, 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/PPC/White Cement)	Al2O3	IS 4032
2	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	CaO	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	Fe2O3	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	Insoluble Residue	IS 4032
5	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	Loss on Ignition	IS 4032
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	MgO	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	Silica	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/White Cement)	Sulphuric Anhydride	IS 4032
9	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	Al2O3	IS 2000 (Part 3)
10	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	CaO	SOP No. REL/TP/BUX/01 Issue No. 1 March 16
11	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	Fe2O3	IS 2000 (Part 4)
12	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	LOI	IS 2000 (Part 1)
13	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	MgO	SOP No. REL/TP/BUX/01 Issue No. 1 March 16
14	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	SiO2	IS 2000 (Part 2)
15	CHEMICAL- ORES & MINERALS	Bauxite/Aluminum Ore	TiO2	IS 2000 (Part 5)
16	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	Al2O3	IS 2840
17	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	CaO	SOP No. REL/TP/Clay/01 Issue No. 1 March 16
18	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	Fe2O3	IS 2840

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19	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	LOI	IS 2840
20	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	MgO	SOP No. REL/TP/Clay/01 Issue No. 1 March 16
21	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	SiO2	SOP No. REL/TP/CCL/01 Issue No. 1 March 14
22	CHEMICAL- ORES & MINERALS	China Clay/Kaolin Clay	TiO2	IS 2840
23	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	Al2O3	SOP No. RE/TP/DE/02 Issue No. 1 March 16
24	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	CaO	SOP No. RE/TP/DE/02 Issue No. 1 March 16
25	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	Fe2O3	SOP No. RE/TP/DE/02 Issue No. 1 March 16
26	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	LOI	SOP No. RE/TP/DE/02 Issue No. 1 March 16
27	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	MgO	SOP No. RE/TP/DE/02 Issue No. 1 March 16
28	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	Moisture	SOP No. RE/TP/DE/02 Issue No. 1 March 16
29	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	Non Reactive Silica	SOP No. RE/TP/DE/01 Issue No. 1 March 10
30	CHEMICAL- ORES & MINERALS	Diatomaceous/Siliceous Earth	Total Silica	SOP No. RE/TP/DE/01 Issue No. 1 March 10
31	CHEMICAL- ORES & MINERALS	Feldspar	Al2O3	IS 9749
32	CHEMICAL- ORES & MINERALS	Feldspar	K2O	IS 9749
33	CHEMICAL- ORES & MINERALS	Feldspar	Na2O	IS 9749
34	CHEMICAL- ORES & MINERALS	Feldspar	SiO2	IS 9749
35	CHEMICAL- ORES & MINERALS	Iron Ore	SiO2	IS 1493 (Part 1)
36	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron	IS 1493 (Part 1)
37	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	Al2O3	IS 1760 (Part 3)

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38	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	CaCO3	SOP No. REL/TP/TC/01 Issue No. 1 March 14
39	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	CaO	IS 1760 (Part 3)
40	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	Chloride	IS 1760 (Part 5)
41	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	Fe2O3	IS 1760 (Part 3)
42	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	LOI	IS 1760 (Part 1)
43	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	MgCO3	SOP No. REL/TP/TC/01 Issue No. 1 March 14
44	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	MgO	IS 1760 (Part 3)
45	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	SiO2	IS 1760 (Part 2)
46	CHEMICAL- ORES & MINERALS	Limestone & Dolomite/Calcite	Total Carbonates	SOP No. REL/TP/TC/01 Issue No. 1 March 14
47	CHEMICAL- ORES & MINERALS	Quartz/Silica Sand	Iron as Fe	IS 1917 (Part 5)
48	CHEMICAL- ORES & MINERALS	Quartz/Silica Sand	SiO2	IS 1917 (Part 3)
49	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	Al2O3	IS 10429
50	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	CaO	IS 10429
51	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	Fe2O3	IS 10429
52	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	LOI	IS 1462
53	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	Matter Soluble in Water	IS 1462
54	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	MgO	IS 1462
55	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	pH	IS 1462
56	CHEMICAL- ORES & MINERALS	Soap Stone/Talc/Steatite	SiO2	IS 10429

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity	IS 3025 (Part 22)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	IS 3025 (Part 23)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as Ca	IS 3025 (Part 40)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chlorides as Cl	IS 3025 (Part. 32)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Color	IS 3025 (Part 4)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Conductivity	IS 3025 (Part 14)
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Hexavalent Chromium	IS 3025 (Part 52)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron as Fe	IS 3025 (Part 53)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium as Mg	IS 3025 (Part 46)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS 3025 (Part 11)
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate as SO4	IS 3025 (Part 24)
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	IS 3025 (Part. 16)
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness	IS 3025 (Part 21)
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	IS 3025 (Part 17)
71	CHEMICAL- WATER	Bore Well Water	Acidity	IS 3025 (Part 22)
72	CHEMICAL- WATER	Bore Well Water	Alkalinity	IS 3025 (Part 23)
73	CHEMICAL- WATER	Bore Well Water	Calcium as Ca	IS 3025 (Part 40)
74	CHEMICAL- WATER	Bore Well Water	Chlorides as Cl	IS 3025 (Part 32)
75	CHEMICAL- WATER	Bore Well Water	Color	IS 3025 (Part 4)
76	CHEMICAL- WATER	Bore Well Water	Conductivity	IS 3025 (Part 14)
77	CHEMICAL- WATER	Bore Well Water	Hexavalent Chromium	IS 3025 (Part 52)
78	CHEMICAL- WATER	Bore Well Water	Magnesium as Mg	IS 3025 (Part 46)

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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
79	CHEMICAL- WATER	Bore Well Water	pH	IS 3025 (Part 11)
80	CHEMICAL- WATER	Bore Well Water	Sulphate as SO4	IS 3025 (Part 24)
81	CHEMICAL- WATER	Bore Well Water	Total Dissolve Solids	IS 3025 (Part 16)
82	CHEMICAL- WATER	Bore Well Water	Total Hardness	IS 3025 (Part 21)
83	CHEMICAL- WATER	Bore Well Water	Total Suspended Matter	IS 3025 (Part 17)
84	CHEMICAL- WATER	Domestic Water	Acidity	IS 3025 (Part 22)
85	CHEMICAL- WATER	Domestic Water	Alkalinity	IS 3025 (Part 23)
86	CHEMICAL- WATER	Domestic Water	Calcium as Ca	IS 3025 (Part 40)
87	CHEMICAL- WATER	Domestic Water	Chlorides as Cl	IS 3025 (Part 32)
88	CHEMICAL- WATER	Domestic Water	Color	IS 3025 (Part 4)
89	CHEMICAL- WATER	Domestic Water	Conductivity	IS 3025 (Part 14)
90	CHEMICAL- WATER	Domestic Water	Hexavalent Chromium	IS 3025 (Part 52)
91	CHEMICAL- WATER	Domestic Water	Magnesium as Mg	IS 3025 (Part 46)
92	CHEMICAL- WATER	Domestic Water	pH	IS 3025 (Part 11)
93	CHEMICAL- WATER	Domestic Water	Sulphate as SO4	IS 3025 (Part 24)
94	CHEMICAL- WATER	Domestic Water	Total Dissolve Solids	IS 3025 (Part 16)
95	CHEMICAL- WATER	Domestic Water	Total Hardness	IS 3025 (Part 21)
96	CHEMICAL- WATER	Domestic Water	Total Suspended Matter	IS 3025 (Part 17)
97	CHEMICAL- WATER	Drinking Water	Acidity	IS 3025 (Part 22)
98	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	IS 3025 (Part 23)
99	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40)
100	CHEMICAL- WATER	Drinking Water	Chlorides as Cl	IS:3025 (Part 32)
101	CHEMICAL- WATER	Drinking Water	Color	IS 3025 (Part 4)
102	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025 (Part 14)
103	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium	IS 3025 (Part 52)
104	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part 46)
105	CHEMICAL- WATER	Drinking Water	pH	IS:3025 (Part 11)
106	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	IS 3025 (Part 24)
107	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS:3025 (Part 16)
108	CHEMICAL- WATER	Drinking Water	Total Hardness	IS:3025 (Part 21)

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109	CHEMICAL- WATER	Drinking Water	Total Suspended Matter	IS:3025 (Part 17)
110	CHEMICAL- WATER	Potable Water	Acidity	IS 3025 (Part 22)
111	CHEMICAL- WATER	Potable Water	Alkalinity	IS 3025 (Part 23)
112	CHEMICAL- WATER	Potable Water	Calcium	IS 3025 (Part 40)
113	CHEMICAL- WATER	Potable Water	Chlorides as Cl	IS 3025 (Part 32)
114	CHEMICAL- WATER	Potable Water	Color	IS 3025 (Part 4)
115	CHEMICAL- WATER	Potable Water	Conductivity	IS 3025 (Part 14)
116	CHEMICAL- WATER	Potable Water	Hexavalent Chromium	IS 3025 (Part 52)
117	CHEMICAL- WATER	Potable Water	Magnesium	IS 3025 (Part 46)
118	CHEMICAL- WATER	Potable Water	pH	IS 3025 (Part 11)
119	CHEMICAL- WATER	Potable Water	Sulphate as SO4	IS 3025 (Part 24)
120	CHEMICAL- WATER	Potable Water	Total Dissolve Solids	IS 3025 (Part 16)
121	CHEMICAL- WATER	Potable Water	Total Hardness as CaCO3	IS 3025 (Part 21)
122	CHEMICAL- WATER	Potable Water	Total Suspended Matter	IS 3025 (Part 17)
123	CHEMICAL- WATER	Water for construction purpose	Acidity	IS:3025 (Part 22)
124	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS:3025 (Part 23)
125	CHEMICAL- WATER	Water for construction purpose	Chlorides as Cl	IS:3025 (Part 32)
126	CHEMICAL- WATER	Water for construction purpose	Inorganic Matter	IS: 3025 (Part 18)
127	CHEMICAL- WATER	Water for construction purpose	Organic Matter	IS:3025 (Part 18)
128	CHEMICAL- WATER	Water for construction purpose	pH	IS:3025 (Part 11)
129	CHEMICAL- WATER	Water for construction purpose	sulphates as SO3	IS:3025 (Part 24)
130	CHEMICAL- WATER	Water for construction purpose	Total suspended solids	IS:3025 (Part 17)
131	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	10% Fines Value	IS 2386 (Part 4)
132	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Abrasion Value	IS 2386 (Part 4)
133	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Bulk Density	IS 2386 (Part 3)
134	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (Part 4)
135	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation Index	IS 2386 (Part 1)

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136	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS 2386 (Part 1)
137	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part 4)
138	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis	IS 2386 (Part- 1)
139	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Soundness by Na2SO4/MgSO4	IS 2386 (Part 5)
140	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part 3)
141	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Stripping Value	IS 6241
142	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part 3)
143	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Deleterious Substances	IS 2386 (Part- 2)
144	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Organic Impurities	IS 2386 (Part 2)
145	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis	IS 2386 (Part- 1)
146	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Soundness by Na2SO4/MgSO4	IS 2386 (Part 5)
147	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part 3)
148	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part 3)
149	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	ASTM-D 2172
150	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1 to 4)
151	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 1 to 4)
152	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 1 to 4)
153	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Compressive Strength	IS 4031 (Part 6)
154	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Consistency	IS 4031 (Part 4)

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155	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Density	IS 4031 (Part 11)
156	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Fineness by Air Permeability	IS 4031 (Part 2)
157	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Setting Time	IS 4031 (Part 5)
158	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Soundness by Autoclave	IS 4031 (Part 3)
159	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/White Cement)	Soundness by Le-Chatelier	IS 4031 (Part 3)
160	MECHANICAL- BUILDINGS MATERIALS	Concrete	Accelerated testing for concrete for Compressive strength	IS 516
161	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Cube	IS 516
162	MECHANICAL- BUILDINGS MATERIALS	Concrete	Workability by Slump	IS 1199
163	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
164	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
165	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bar	Elongation	IS 1608 (Part 1)
166	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bar	Tensile Strength	IS 1608 (Part 1)
167	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bar	Weight per Meter	IS 1608 (Part 1)
168	MECHANICAL- BUILDINGS MATERIALS	TMT Steel Bar	Yield Stress	IS 1608 (Part 1)
169	MECHANICAL- SOIL AND ROCK	Rock	Compressive Strength of Rock	IS 1121 (Part 1)
170	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Liquid Limit)	IS 2720 (Part 5)
171	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Plastic Limit)	IS 2720 (Part 5)
172	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)

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173	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS 2720 (Part- 13)
174	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
175	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
176	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Distribution	IS 2720 (Part- 4)
177	MECHANICAL- SOIL AND ROCK	Soil	Procter Test Heavy Compaction	IS 2720 (Part- 8)
178	MECHANICAL- SOIL AND ROCK	Soil	Procter Test Light Compaction	IS 2720 (Part- 7)
179	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis	IS: 2720 (Part-4)
180	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3) (Section I & II
181	MECHANICAL- SOIL AND ROCK	Soil	Wet Sieve Analysis	IS 2720 (Part- 4)