National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIRAGYA CONSULTANTS (ENVIRONMENTAL LAB), B-51/52, FIRST FLOOR, RAGHAV NAGAR, NANDELAV ROAD, BHARUCH, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 09/05/2021 to 08/05/2023 **Last Amended on** -

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- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Alkalinity	APHA 23rd Ed. Alkalinity 2320 B
2	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Ammonical Nitrogen	APHA 23rd Ed. 4500 NH3 - C
3	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Chemical Oxygen Demand	APHA 23rd Ed. 5220 C
4	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Chloride	APHA 23rd ed. 4500 Cl- B
5	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Copper	APHA 23rd Ed. 3500 Cu
6	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Dissolved Oxygen	APHA 23rd Ed. 4500 O H
7	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Fluoride	APHA 23rd Ed.4500 F- D
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Free ammonia	Calculation method
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Magnesium	APHA 23rd Ed. 3500-Mg
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Mixed Liquor Suspended Solids	APHA 23rd Ed. 2540 E
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Mixed Liquor Volatile Suspended Solids	APHA 23rd Ed. 2540 E
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Nickel	IS: 3025 (Part-54)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Nitrate	APHA 23rd Ed. 4500 NO3- B
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Nitrite	APHA 23rd Ed. 4500 NO2- B
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Oil & Grease	APHA 23rd Ed. 5520 B
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	pH	APHA 23rd Ed. 4500 H+
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Phenolic Compounds	APHA 23rd Ed. 5530 D
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Potassium	APHA 23rd Ed. 4500 K+ B

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Salinity	APHA 23rd Ed. 2520 B
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Silica	APHA 23rd Ed. 4500 SiO2 C
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Sodium	APHA 23rd Ed. 3500 Na+ B
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Sulfate	APHA 23rd Ed. Sulfate 4500 C
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Sulfate	APHA 23rd Ed. Sulfate 4500 E
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Temprature	APHA 23rd Ed. 2550 B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Dissolved Solids	APHA 23rd Ed. Solids 2540 C
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Hardness	APHA 23rd Ed. 2340 C
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Kjeldahl Nitrogen	APHA, 23rd Ed.4500-Norg B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Total Solids	APHA 23rd Ed. Solids 2540 B
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents)	Zinc	APHA 23rd Ed. 3500 Zn B
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biochemical Oxygen Demand	IS 3025 (Part 44)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Residual Free Chlorine	APHA 23rd Ed. 4500 Cl B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA 23rd Ed. Solids 2540 D
33	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Acidity	APHA 23rd Ed. 2310 B
34	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Boron	APHA 23rd Ed. 3500 B
35	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Calcium	APHA 23rd Ed. 3500-Ca B
36	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Colour	APHA 23rd Ed. 2120 B
37	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Electrical Conductivity	APHA 23rd Ed. 2510 B

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr - B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents)	Iron	APHA 23rd Ed. 3500-Fe B
40	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Sewage)	Chemical Oxygen Demand (Low)	APHA 23rd Ed. 5220 C
41	CHEMICAL- WATER	Construction Water	Chloride	APHA, 23rd ed. 4500-Cl- B
42	CHEMICAL- WATER	Construction Water	Inorganic Solids	APHA 23rd Ed. 2540 E
43	CHEMICAL- WATER	Construction Water	Organic Solids	APHA 23rd Ed. 2540 Solids E
44	CHEMICAL- WATER	Construction Water	pH	APHA 23rd Ed. 4500 H+
45	CHEMICAL- WATER	Construction Water	Sulfate	APHA, 23rd ed.4500-SO42- C
46	CHEMICAL- WATER	Construction Water	To neutralize 100ml sample of water using 0.02 N H2SO4 using phenolphthalein indicator	IS 456 : 2000
47	CHEMICAL- WATER	Construction Water	To neutralize 100ml sample of water using 0.02 N NaOH using phenolphthalein indicator	IS 456 : 2000
48	CHEMICAL- WATER	Construction Water	Total suspended Solids	APHA 23rd Ed. 2540 Solids D
49	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA 23rd Ed. Alkalinity 2320 B
50	CHEMICAL- WATER	Drinking Water	Ammonical nitrogen	APHA 23rd Ed. 4500 NH3 - F
51	CHEMICAL- WATER	Drinking Water	Boron	APHA 23rd Ed. 4500 Boron B
52	CHEMICAL- WATER	Drinking water	Calcium	APHA,23rd ed.3500-Ca B
53	CHEMICAL- WATER	Drinking Water	Chloride	APHA, 23rd ed. 4500-Cl- B
54	CHEMICAL- WATER	Drinking Water	Colour	APHA, 23rd ed.2120 B
55	CHEMICAL- WATER	Drinking Water	Electrical conductivity	APHA 23rd Edition 2510 B
56	CHEMICAL- WATER	Drinking water	Fluoride	APHA, 23rd ed.4500 F- D
57	CHEMICAL- WATER	Drinking Water	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr - B
58	CHEMICAL- WATER	Drinking water	Iron	APHA,23rd ed. 3500-Fe B
59	CHEMICAL- WATER	Drinking Water	Magnesium	APHA 23rd Ed. 3500 Mg - B
60	CHEMICAL- WATER	Drinking Water	Nitrate	APHA 23rd Ed. 4500 NO3- B
61	CHEMICAL- WATER	Drinking Water	Salinity	APHA 23rd Ed. 2520 Salinity B
62	CHEMICAL- WATER	Drinking Water	Sulfate	APHA, 23rd ed.4500-SO42- E
63	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA, 23rd ed. 2540 C

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64	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA,23rd 2340 C
65	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Ed. 2130 Turbidity B
66	CHEMICAL- WATER	Drinking Water	Zinc	APHA 23rd Ed. 3500 Zn - B
67	CHEMICAL- WATER	Ground water	Alkalinity	APHA 23rd Ed. Alkalinity 2320
68	CHEMICAL- WATER	Ground water	Ammonical nitrogen	APHA 23rd Ed. 4500 NH3 -F
69	CHEMICAL- WATER	Ground water	Boron	APHA 23rd Ed. 4500 Boron B
70	CHEMICAL- WATER	Ground Water	Calcium	APHA 23rd ED 3500 Ca B
71	CHEMICAL- WATER	Ground water	Chemical Oxygen Demand	APHA 23rd Ed. 5220 C
72	CHEMICAL- WATER	Ground water	Chloride	APHA 23rd Ed. 4500 Cl- B
73	CHEMICAL- WATER	Ground water	Colour	APHA 23rd Ed. 2120 B & C
74	CHEMICAL- WATER	Ground water	Electrical Conductivity	APHA 23rd Ed. Conductivity 2510 B
75	CHEMICAL- WATER	Ground water	Fluoride	APHA 23rd Ed. 4500 F- D
76	CHEMICAL- WATER	Ground Water	Hexavalent Chromium	APHA 23rd Ed. 3500 Cr - B
77	CHEMICAL- WATER	Ground water	Iron	APHA 23rd Ed. 3500 Iron B
78	CHEMICAL- WATER	Ground water	Magnesium	APHA 23rd Ed. 3500 Mg - B
79	CHEMICAL- WATER	Ground water	Nitrate	APHA 23rd Ed. 4500 NO3- B
80	CHEMICAL- WATER	Ground water	pH	APHA 23rd Ed. H+ B
81	CHEMICAL- WATER	Ground water	Salinity	APHA 23rd Ed. Salinity 2520 B
82	CHEMICAL- WATER	Ground water	Sulfate	APHA 23rd Ed. 4500 Sulfate C
83	CHEMICAL- WATER	Ground water	Total Dissolved Solids	APHA 23rd Ed. 2540 Solids C
84	CHEMICAL- WATER	Ground water	Total Hardness	APHA 23rd Ed Hardness 2340
85	CHEMICAL- WATER	Ground water	Total Solids	APHA 23rd Ed. 2540 Solids B
86	CHEMICAL- WATER	Ground water	Total Suspended Solids	APHA 23rd Ed. Solids 2540 D
87	CHEMICAL- WATER	Ground water	Turbidity	APHA 23rd Ed. Turbidity 2130
88	CHEMICAL- WATER	Ground water	Zinc	APHA 23rd Ed. Zinc 3500
89	CHEMICAL- WATER	Irrigation Water	Boron	APHA 23rd Ed. 4500 Boron B
90	CHEMICAL- WATER	Irrigation water	Fluoride	APHA, 23rd ed.4500 F- D
91	CHEMICAL- WATER	Irrigation Water	pH	APHA 23rd Ed. 4500 H+ B.
92	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	APHA 23rd Ed Alkalinity 2320 B

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93	CHEMICAL- WATER	Packaged Drinking Water	Boron	APHA 23rd Ed. 4500 Boron B.
94	CHEMICAL- WATER	Packaged Drinking Water	Calcium	APHA,23rd ed.3500-Ca B
95	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA, 23rd ed. 4500-Cl- B
96	CHEMICAL- WATER	Packaged Drinking Water	Colour	APHA, 23rd ed.2120 C
97	CHEMICAL- WATER	Packaged Drinking Water	Electrical Conductivity	APHA 23rd Ed. 2510 conductivity B.
98	CHEMICAL- WATER	Packaged Drinking water	Fluoride	APHA, 23rd ed.4500 F- D
99	CHEMICAL- WATER	Packaged Drinking water	Iron	APHA,23rd ed. 3500-Fe B
100	CHEMICAL- WATER	Packaged Drinking Water	Magnesium	APHA,23rd ed.3500-Mg
101	CHEMICAL- WATER	Packaged Drinking Water	Nitrate	APHA 23rd Ed. 4500 NO3+ B.
102	CHEMICAL- WATER	Packaged Drinking Water	pH	APHA 23rd Ed. 4500 H+
103	CHEMICAL- WATER	Packaged drinking Water	Sulfate	APHA, 23rd ed. No. 4500-Sulfate- E
104	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solid	APHA, 23rd ed. 2540 C
105	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	APHA 23rd Ed. 2130 Turbidity B
106	CHEMICAL- WATER	Packaged Drinking Water	Zinc	APHA 23rd Ed. 3500 Zn B.
107	CHEMICAL- WATER	Surface Water	Alkalinity	APHA 23rd Ed. 2320 B
108	CHEMICAL- WATER	Surface Water	Ammonical nitrogen	APHA 23rd Ed. 4500 NH3 - C
109	CHEMICAL- WATER	Surface Water	Boron	APHA 23rd Ed. 3500 Boron B
110	CHEMICAL- WATER	Surface Water	Calcium	APHA 23rd Ed. 3500 Ca - B
111	CHEMICAL- WATER	Surface Water	Chloride	APHA 23rd Ed. 4500 Cl- B
112	CHEMICAL- WATER	Surface Water	Colour	APHA 23rd Ed. 2120 Color C
113	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA 23rd ed. 4500 O C
114	CHEMICAL- WATER	Surface Water	Electrical Conductivity	APHA 23rd Ed. 2510 B
115	CHEMICAL- WATER	Surface Water	Fluoride	APHA, 23rd ed.4500 F- D
116	CHEMICAL- WATER	Surface Water	Iron	APHA,23rd ed. 3500-Fe B
117	CHEMICAL- WATER	Surface Water	Magnesium	APHA 23rd Ed. 3500 Mg - B
118	CHEMICAL- WATER	Surface Water	Nitrate	APHA 23rd Ed. 4500 NO3- B
119	CHEMICAL- WATER	Surface Water	pH	APHA 23rd Ed. 4500 H+
120	CHEMICAL- WATER	Surface Water	Phenolic Compounds	APHA, 23rd ed. 5530 D
121	CHEMICAL- WATER	Surface Water	Potassium	APHA 23rd Ed. 3500 K - B

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122	CHEMICAL- WATER	Surface Water	Salinity	APHA 23rd Ed. 2520 B
123	CHEMICAL- WATER	Surface Water	Sodium	APHA 23rd Ed. 3500 Na - B
124	CHEMICAL- WATER	Surface Water	Sulfate	APHA, 23rd Ed. 4500 Sulfate C
125	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA, 23rd ed. 2540 C
126	CHEMICAL- WATER	Surface water	Total Hardness	APHA,23rd 2340 C
127	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Ed. 2540 D
128	CHEMICAL- WATER	Surface Water	Turbidity	APHA 23rd Ed. 2130 B
129	CHEMICAL- WATER	Swimming Pool Water	Iron	APHA,23rd ed. 3500-Fe B
130	CHEMICAL- WATER	Swimming Pool Water	pH	APHA 23rd Ed. 4500 H+
131	CHEMICAL- WATER	Swimming Pool Water	Total Dissolved Solids	APHA, 23rd ed. No. 2540 C
132	CHEMICAL- WATER	Wastewater (Effluents)	Colour	APHA 23rd Ed. 2120 B
133	CHEMICAL- WATER	Water for Swimming Pool	Chloride	APHA 23rd ed. 4500 Cl- B
134	CHEMICAL- WATER	Water for Swimming Pool	Colour	APHA, 23rd Ed. 2120 C

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.