National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ANKLESHWAR RESEARCH & ANALYTICAL INFRASTRUCTURE LTD. (ARAIL), PLOT NO 1501, GIDC ESTATE, BHARUCH, ANKLESHWAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 18/11/2021 to 17/11/2023 **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- ATMOSPHERIC POLLUTION	Ambient air	NH3	NAAQMS/36 (Indophenol Blue Method)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	NO2	IS 5182 (Part 6)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	PM 2.5	NAAQMS/36 (Gravimetric Method)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	PM10	IS 5182 (Part 23)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	SO2	IS 5182 (Part 2)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	NO2	IS 11255 (Part 7)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	PM	IS 11255 (Part 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	SO2	IS 11255 (Part 2)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mix Liquor Suspended solids (MLSS)	APHA (23rd Edition) 2540 D
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mix Liquor Volatile suspended solids (MLVSS)	APHA (23rd Edition) 2540 E
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite Nitrogen (NO2)	APHA (23rd Edition) 4500B
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenol	APHA (23rd Edition) 5530 D
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica SiO2 (Reactive)	APHA (23rd Edition) 4500B
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide (S2)	APHA (23rd Edition) 4500F
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	IS 3025 Part 17
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Iron	APHA (23rd Edition) 3500 Fe B
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chloride (Cl)	APHA (23rd Edition) 4500B
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chromium (Hexavalent)	APHA (23rd Edition) 3500 Cr B

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	COD	APHA (23rd Edition) 5220 B
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Colour	APHA (23rd Edition) 2120 B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Conductivity	APHA (23rd Edition) 2510 B
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	pH	APHA (23rd Edition) 4500B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phosphate	APHA (23rd Edition) 4500C
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sulphate (SO4)	APHA (23rd Edition) 4500D
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Alkalinity	APHA (23rd Edition) 2320 B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Dissolved Solids	APHA (23rd Edition) 2540 C
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Hardness	APHA (23rd Edition) 2340 C
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Turbidity	APHA (23rd Edition) 2130 B
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Ammonical Nitrogen (NH3)	APHA (23rd Edition) 4500C
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	BOD (5 Days)	APHA (23rd Edition) 5210 B
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Calcium Hardness	APHA (23rd Edition) 3500 Ca B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Dissolved Oxygen (O)	APHA (23rd Edition) 4500C
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride (F)	APHA (23rd Edition) 4500D
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Free Residual Chlorine (Cl)	APHA (23rd Edtion) 4500B
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Magnesium Hardness	APHA(23rd Edition) 3500 Mg B
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Oil & Grease	IS 3025 Part 39
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Potassium	APHA (23rd Edition) 3500 K B

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Sodium	APHA (23rd Edition) 3500 Na B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Total Acidity	IS 3025 Part 22
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Total Kjeldahl Nitrogen	APHA (23rd Edition) 4500B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/Sewage)	Total Solids	APHA (23rd Edition) 2540 B
42	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen (NH3)	APHA (23rd edition) 4500C
43	CHEMICAL- WATER	Drinking Water	BOD (5 Days)	APHA (23rd Edition) 5210 B
44	CHEMICAL- WATER	Drinking Water	Calcium Hardness	APHA(23rd Edition) 3500 Ca B
45	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 Part 32
46	CHEMICAL- WATER	Drinking Water	Chromium (Hexavelant)	APHA (23rd Edition)
47	CHEMICAL- WATER	Drinking Water	COD	APHA (23rd Edition) 5220 B
48	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 Part 4
49	CHEMICAL- WATER	Drinking Water	Conductivity	APHA (23rd Edition) 2510 B
50	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen (O)	APHA (23rd Edition) 4500C
51	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine (Cl)	APHA (23rd Edition) 4500B
52	CHEMICAL- WATER	Drinking Water	Iron	APHA (23rd Edition)3500 Fe B
53	CHEMICAL- WATER	Drinking Water	Magnesium Hardness	APHA (23rd Edition) 3500 Mg B
54	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	APHA (23rd Edition) NO3 B
55	CHEMICAL- WATER	Drinking Water	Nitrite Nitrogen (NO2)	APHA (23rd Edition) 4500B
56	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS 3025 Part 39
57	CHEMICAL- WATER	Drinking Water	pH	APHA (23rd Edition) 4500B
58	CHEMICAL- WATER	Drinking Water	Phosphate	APHA (23rd Edition) 4500C
59	CHEMICAL- WATER	Drinking Water	Potassium	APHA (23rd Edition) 3500 K B
60	CHEMICAL- WATER	Drinking Water	Silica (Reactive)	APHA (23rd Edition) 4500B
61	CHEMICAL- WATER	Drinking Water	Sodium	APHA (23rd Edition) 3500 Na B
62	CHEMICAL- WATER	Drinking Water	Sulphate	APHA (23rd Edition) 4500E
63	CHEMICAL- WATER	Drinking Water	Sulphide	APHA (23rd Edition) 4500F
64	CHEMICAL- WATER	Drinking Water	Total Acidity	IS 3025 part 22
65	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS 3025 Part 23

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66	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 Part 16
67	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 part 21
68	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen	APHA (23rd Edition) 4500B
69	CHEMICAL- WATER	Drinking Water	Total Solids	APHA (23rd Edition) 2540 B
70	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 Part 17
71	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 Part 10
72	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen	APHA (23rd Edition) 4500C
73	CHEMICAL- WATER	Ground Water	BOD (5 Days)	APHA (23rd Edition) 5210 B
74	CHEMICAL- WATER	Ground Water	Calcium Hardness	APHA (23rd Edition) 3500 Ca B
75	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part 32)
76	CHEMICAL- WATER	Ground Water	Chromium(Hexavelant)	APHA (23rd Edtion) 3500 Cr B
77	CHEMICAL- WATER	Ground Water	COD	APHA (23rd Edition) 5220 B
78	CHEMICAL- WATER	Ground Water	Colour	IS 3025 (Part 4)
79	CHEMICAL- WATER	Ground Water	Conductivity	APHA (23rd Edition) 2510 B
80	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA (23rd Edition) 4500C
81	CHEMICAL- WATER	Ground Water	Free Residual Chlorine	APHA (23rd Edition) 4500B
82	CHEMICAL- WATER	Ground Water	Iron	APHA (23rd Edition) 3500 Fe B
83	CHEMICAL- WATER	Ground Water	Magnesium Hardness	APHA (23rd Edition) 3500 Mg B
84	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	APHA (23rd Edition) 4500B
85	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen	APHA (23rd Edition) NO2 B
86	CHEMICAL- WATER	Ground Water	Oil & Grease	IS 3025 Part 39
87	CHEMICAL- WATER	Ground Water	pH	APHA (23rd Edition) 4500B
88	CHEMICAL- WATER	Ground Water	Phosphate	APHA (23rd Edition) 4500C
89	CHEMICAL- WATER	Ground Water	Potassium	APHA (23rd Edition) 3500 K B
90	CHEMICAL- WATER	Ground Water	Silica (Reactive)	APHA (23rd Edition) 4500B
91	CHEMICAL- WATER	Ground Water	sodium	APHA (23rd edition) 3500 Na B
92	CHEMICAL- WATER	Ground Water	Sulphate	APHA (23rd Edition) 4500E
93	CHEMICAL- WATER	Ground Water	sulphide	APHA (23rd Edition) 4500F
94	CHEMICAL- WATER	Ground Water	Total Acidity	IS 3025 Part 22
95	CHEMICAL- WATER	Ground Water	Total Alkalinity	IS 3025 (Part 23)

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96	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16)
97	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025 (Part 21)
98	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen	APHA (23rd Edition) 4500B
99	CHEMICAL- WATER	Ground Water	Total Solids	APHA (23rd Edition) 2540 B
100	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS 3025 Part 17
101	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)