



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ROYAL ENVIRONMENT AUDITING & CONSULTANCY SERVICE, 303-304, SHIVALIK 7, B/S BAL ADALAT, GONDAL ROAD, RAJKOT, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5948- Page No. : 1 / 12

Validity 01/06/2019 to 31/05/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Chlorine Gas (CL <sub>2</sub> )	IS 5182 (Part 19): 1982	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Hydrogen Sulphide(H <sub>2</sub> S)	IS 5182 (Part 7): 1973	6 ug/m <sup>3</sup> to 600 ug/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen	IS 5182 (Part 6): 2006	0.1 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	PM 2.5	NAAQM Monitoring & Analysis Guideline Volume-1, CPCB: 2011	4.0 µg/m <sup>3</sup> to 400 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Respirable Suspended Particular Matter (PM <sub>10</sub> )	IS 5182 (Part 23): 2006	10 ug/m <sup>3</sup> to 600 ug/m <sup>3</sup>
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide	IS 5182 (Part 2): 2001	3.75 ug/m <sup>3</sup> to 100 ug/m <sup>3</sup>
7	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Chlorine Gas (CL <sub>2</sub> )	APHA-202, 3rd (Edition) IS 5182 (Part 19): 1982	2 mg/Nm <sup>3</sup> to 50 mg/Nm <sup>3</sup>
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Ammonia	APHA-401, 3rd (Edition) IS 11255 (Part 6): 1999	0.001 mg/Nm <sup>3</sup> to 100 mg/Nm <sup>3</sup>
9	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide (CO <sub>2</sub> )	IS 13270: 1992	0.2 % to 21 %



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10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide (CO)	USEPA: Method 10 & IS 13270: 1992	2 % to 400 %
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Hydrochloric Acid (HCL)	USEPA : Method 26 A: 1989	1 mg/Nm3 to 150 mg/Nm3
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Nitrogen Dioxide (NOx)	IS 11255 (Part-7): 2005	2 mg/Nm3 to 400 mg/Nm3
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Oxygen (O2)	IS 13270: 1992	0.2 % to 21 %
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1): 1985	2 mg/Nm3 to 5000 mg/Nm3
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2): 1985	2 mg/Nm3 to 2000 mg/Nm3
16	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Acidity	APHA 23rd Edition, 2310 – B & IS 3025 (Part 22) Titration Method: 1986	5 mg/L to 1000 mg/L
17	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Ammonical Nitrogen	APHA 23rd Edition, 4500 – NH3, C & IS 3025 (Part 34) Titrimetric Method: 1988	1 mg/L to 500 mg/L
18	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Biochemical Oxygen Demand (BOD - 3 day @ 27°C)	IS 3025 (Part 44): 1993	1.0 mg/L to 30000 mg/L



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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Biochemical Oxygen Demand (BOD - 5 day @ 20°C)	APHA 23rd Edition, 5210-BOD – 'B' & IS 3025 (Part 44): 1993	1.0 mg/L to 30000 mg/L
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chemical Oxygen Demand (COD)	APHA23rd Edition, 5220 – 'C' Closed Reflux, Titrimetric: 2012	4 mg/L to 50000 mg/L
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chloride	APHA 23rd Edition, 4500 Cl-,B & IS 3025 (Part 32): 1988	5 mg/L to 10000 mg/L
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Conductivity	APHA 23rd Edition, 2510 – B & IS 3025 (Part 14): 1984	1 µS/cm to 20000 µS/cm
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Dissolve Oxygen	APHA 23rd Edition, 4500 –O, C & IS 3025 (Part 38): 1989	0.5 mg/L to 8 mg/L
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Iron	APHA 23rd Edition, 3500-Fe, B & IS 3025 (Part 53): 2003	0.01 mg/L to 5.0 mg/L
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrate Nitrogen	APHA 23rd Edition, 4500 – NO3-, B & IS 3025 (Part 34) Chromotropic acid Method: 1988	0.1 mg/L to 10 mg/L
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrite Nitrogen	APHA 23rd Edition, 4500 – NO2-, B & IS 3025 (Part 34) Spectrophotometric Method: 1988	0.01 mg/L to 25.0 mg/L



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27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrogen (Organic) Macro-Kjeldahl Method	APHA 23rd Edition, 4500-Norg, B: 2012	1 mg/L to 100 mg/L
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Oil and Grease	APHA 23rd Edition, 5520-B & IS 3025 (Part 39): 1991	4 mg/L to 500 mg/L
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phenol	APHA 23rd Edition, 5530 – C & IS 3025(Part 43): 1992	0.01 mg/L to 10 mg/L
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phosphorus(as PO <sub>4</sub> 3-)	APHA 23rd Edition, 4500-P, C & IS 3025 (Part-31): 1998	0.05 mg/L to 10 mg/L
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Potassium	APHA 23rd Edition, 3500K–B & IS 3025 (Part 45) Flame Photo Meter Method: 1993	1.0 mg/L to 100 mg/L
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sodium	APHA 23rd Edition, 3500Na –B & IS 3025 (Part 45) Flame Photo Meter Method: 1993	1 mg/L to 100 mg/L
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sulphate as SO <sub>4</sub>	APHA 23rd Edition, 4500 – SO <sub>4</sub> 2, E & IS 3025 (Part 24) Turbidity Method: 1986	5 mg/L to 200 mg/L
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sulphide	APHA 23rd Edition, 4500 S <sub>2</sub> -, F & IS 3025 (Part 29) Iodometric Method: 1986	0.1 mg/L to 10 mg/L



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35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Sulphite	APHA 23rd Edition, 4500 SO <sub>3</sub> 2-, B & IS 3025 (Part 28) Iodometric Method: 1986	1.0 mg/L to 10 mg/L
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Chromium	APHA 23rd Edition, 3500-Cr, B & IS 3025 (Part 52): 2003	0.020 mg/L to 20.00 mg/L
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Dissolved Solids	APHA 23rd Edition, 2540 – C & IS 3025 (Part 16) : 1984	5 mg/L to 50000 mg/L
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Solids	APHA 23rd Edition, 2540 – B & IS 3025 (Part 15): 1984	5 mg/L to 50000 mg/L
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Total Suspended Solids	APHA 23rd Edition, 2540 – D & IS 3025 (Part 17): 1984	5 mg/L to 1000 mg/L
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Turbidity	APHA 23rd Edition, 2130 B & IS 3025 (Part 10) Nephelometric Method: 1984	2 NTU to 1000 NTU
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA 23rd Edition, 4500-H+, B & IS 3025 (Part – 11): 1983	1 to 14
42	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Edition, 2130 – B & IS 3025 (Part 10) Nephelometric Method: 1984	2 NTU to 100 NTU



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43	CHEMICAL- WATER	Drinking Water	Acidity	APHA 23rd Edition, 2310 – B & IS 3025 (Part 22) Titration Method: 1986	5 mg/L to 1000 mg/L
44	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA 23rd Edition, 2320 – B & IS 3025 (Part 23): 1986	5 mg/L to 800 mg/L
45	CHEMICAL- WATER	Drinking Water	Chloride	APHA 23rd Edition, 4500 Cl-, B & IS 3025 (Part 32): 1988	5 mg/L to 2000 mg/L
46	CHEMICAL- WATER	Drinking Water	Color	APHA 23rd Edition, 2120 – B & IS 3025 (Part 4) Cobalt Method: 1983	1 Pt.Co to 50 Pt.Co
47	CHEMICAL- WATER	Drinking Water	Conductivity	APHA 23rd Edition, 2510 – B & IS 3025 (Part 14): 1984	1 uS/cm to 20000 uS/cm
48	CHEMICAL- WATER	Drinking Water	Fluoride	APHA 23rd Edition, 4500 – F , D & IS 3025 (Part 60): 2008	0.05 mg/L to 3 mg/L
49	CHEMICAL- WATER	Drinking Water	Hardness as Calcium	APHA 23rd Edition, 3500 - Ca, B & IS 3025 (Part 40): 1991	5 mg/L to 400 mg/L
50	CHEMICAL- WATER	Drinking Water	Hardness as Magnesium	APHA 23rd Edition, 3500 – Mg, B & IS 3025 (Part 46): 1994	2 mg/L to 400 mg/L
51	CHEMICAL- WATER	Drinking Water	Iron	APHA 23rd Edition, 3500-Fe, B & IS 3025 (Part 53): 2003	0.1 mg/L to 5.0 mg/L



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52	CHEMICAL- WATER	Drinking Water	Nitrate Nitrogen	APHA 23rd Edition, 4500 – NO <sub>3</sub> <sup>-</sup> , B & IS 3025 (Part 34) Chromotropic acid Method: 1988	0.1 mg/L to 10
53	CHEMICAL- WATER	Drinking Water	Nitrite Nitrogen	APHA 23rd Edition, 4500 – NO <sub>2</sub> <sup>-</sup> , B & IS 3025 (Part 34) Spectrophotometric Method: 1988	0.01 mg/L to 25
54	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Edition, 4500-H <sup>+</sup> , B & IS 3025 (Part 11): 1983	2 to 12
55	CHEMICAL- WATER	Drinking Water	Phenol	APHA 23rd Edition, 5530 – C & IS 3025 (Part 43): 1992	0.5 mg/L to 5 mg/L
56	CHEMICAL- WATER	Drinking Water	Potassium	APHA 23rd Edition, 3500-K, B & IS 3025 (Part 45) Flame Photo Meter Method: 1993	1 mg/L to 100 mg/L
57	CHEMICAL- WATER	Drinking Water	Sodium	APHA 23rd Edition, 3500-Na, B & IS 3025 (Part 45) Flame Photo Meter Method: 1993	1 mg/L to 100 mg/L
58	CHEMICAL- WATER	Drinking Water	Sulphate as SO <sub>4</sub>	APHA 23rd Edition, 4500 – SO <sub>4</sub> <sup>2-</sup> , E & IS 3025 (Part 24) Turbidity Method: 1986	1 mg/L to 200 mg/L



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59	CHEMICAL- WATER	Drinking Water	Sulphide	APHA 23rd Edition, 4500 S2-, F & IS 3025 (Part 29) Iodometric Method: 1986	0.1 mg/L to 10 mg/L
60	CHEMICAL- WATER	Drinking Water	Sulphite	APHA 23rd Edition, 4500 SO3 2-, B & IS 3025 (Part 28) Iodometric Method: 1986	1.0 mg/L to 10 mg/L
61	CHEMICAL- WATER	Drinking Water	Total Chromium	APHA 23rd Edition, 3500-Cr, B & IS 3025(Part 52): 2003	0.2 mg/L to 20 mg/L
62	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Edition, 2540 – C & IS 3025 (Part 16): 1984	5 mg/L to 2000 mg/L
63	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 23rd Edition, 2340-C & IS 3025 (Part 21): 1983	5 mg/L to 1000 mg/L
64	CHEMICAL- WATER	Surface & Ground Water	Acidity	APHA 23rd Edition 2310 - B & IS 3025 (Part 22) Titration Method: 1986	1 mg/L to 1000 mg/L
65	CHEMICAL- WATER	Surface & Ground Water	Alkalinity	APHA 23rd Edition, 2320 – B & IS 3025 (Part 23): 1986	5 mg/L to 800 mg/L
66	CHEMICAL- WATER	Surface & Ground Water	Ammonical Nitrogen	APHA 23rd Edition, 4500 – NH3, C & IS 3025 (Part 34) Titrimetric Method: 1988	1 mg/L to 100 mg/L





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67	CHEMICAL- WATER	Surface & Ground Water	Biochemical Oxygen Demand (BOD - 3 day @ 27°C)	IS 3025 (Part 44): 1993	1.0 mg/L to 500 mg/L
68	CHEMICAL- WATER	Surface & Ground Water	Biochemical Oxygen Demand (BOD - 5 day @ 20°C)	APHA 23rd Edition 5210 - B & IS 3025 (Part-44): 1993	1.0 mg/L to 500 mg/L
69	CHEMICAL- WATER	Surface & Ground Water	Chemical Oxygen Demand (COD)	APHA 23rd Edition - 5220 - C: 2017	4 mg/L to 1000 mg/L
70	CHEMICAL- WATER	Surface & Ground Water	Chloride	APHA 23rd Edition, 4500 - Cl-, B & IS 3025 (Part 32): 1988	1 mg/L to 1000 mg/L
71	CHEMICAL- WATER	Surface & Ground Water	Conductivity	APHA 23rd Edition, 2510 - B & IS 3025 (Part 14): 1984	1 µS/cm to 20000 µS/cm
72	CHEMICAL- WATER	Surface & Ground Water	Dissolve Oxygen	APHA 23rd Edition 4500 - O, C & IS 3025 (Part 38): 1989	0.5 mg/L to 8.0 mg/L
73	CHEMICAL- WATER	Surface & Ground Water	Fluoride	APHA 23rd Edition 4500 - F-, D: 2017	0.05 mg/L to 3 mg/L
74	CHEMICAL- WATER	Surface & Ground Water	Hardness as Calcium	APHA 23rd Edition, 3500 - Ca, B & IS 3025 (Part 40): 1991	5 mg/L to 5000 mg/L
75	CHEMICAL- WATER	Surface & Ground Water	Hardness as Magnesium	APHA 23rd Edition, 3500 - Mg, B & IS 3025 (Part - 46) By Calculation: 1994	5 mg/L to 5000 mg/L
76	CHEMICAL- WATER	Surface & Ground Water	Iron	APHA 23rd Edition 3500 Fe - B & IS 3025 (Part 53): 2003	0.1 mg/L to 5 mg/L



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77	CHEMICAL- WATER	Surface & Ground Water	Nitrate Nitrogen	APHA 23rd Edition 4500 NO <sub>3</sub> -, B & IS 3025 (Part 34) Chromotropic acid Method: 1988	0.1 mg/L to 10 mg/L
78	CHEMICAL- WATER	Surface & Ground Water	Nitrite Nitrogen	APHA 23rd Edition 4500 NO <sub>2</sub> -, B & IS 3025 (Part 34) Spectrophotometric Method: 1988	0.01 mg/L to 25 mg/L
79	CHEMICAL- WATER	Surface & Ground Water	Organic Nitrogen	APHA 23rd Edition 4500 Norg - B: 2017	1 mg/L to 100 mg/L
80	CHEMICAL- WATER	Surface & Ground Water	pH	APHA 23rd Edition, 4500-H+, B & IS 3025 (Part 11): 1983	2 to 12
81	CHEMICAL- WATER	Surface & Ground Water	Phenol	APHA 23rd Edition 5530 - C & IS 3025 (Part 43): 1992	0.1 mg/L to 10 mg/L
82	CHEMICAL- WATER	Surface & Ground Water	Phosphorus(as PO <sub>4</sub> 3-)	APHA 23rd Edition 4500-P, C & IS 3025 (Part 31): 1998	0.05 mg/L to 10 mg/L
83	CHEMICAL- WATER	Surface & Ground Water	Potassium	APHA 23rd Edition 3500-K, B & IS 3025 (Part 45) Flame Photo Meter Method: 1993	2 mg/L to 100 mg/L
84	CHEMICAL- WATER	Surface & Ground Water	Sodium	APHA 23rd Edition 3500 Na-B, & IS 3025 (Part 45) Flame Photo Meter Method: 1993	2 mg/L to 1000 mg/L



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85	CHEMICAL- WATER	Surface & Ground Water	Sulphate as SO <sub>4</sub>	APHA 23rd Edition, 4500 – SO <sub>4</sub> 2-,E & IS 3025 (Part 24) Turbidity Method: 1986	1 mg/L to 200 mg/L
86	CHEMICAL- WATER	Surface & Ground Water	Sulphide (as S -2)	APHA 23rd Edition 4500 S-2, F & IS 3025 (Part 29) Iodometric Method: 1986	0.1 mg/L to 10 mg/L
87	CHEMICAL- WATER	Surface & Ground Water	Sulphite (as SO <sub>3</sub> -2)	APHA 23rd Edition 4500-SO <sub>3</sub> -2, B & IS 3025 (Part 28) Iodometric Method: 1986	1.0 mg/L to 10.0 mg/L
88	CHEMICAL- WATER	Surface & Ground Water	Total Chromium	APHA 23rd Edition 3500-Cr, B & IS 3025 (Part 52): 2003	0.01 mg/L to 5 mg/L
89	CHEMICAL- WATER	Surface & Ground Water	Total Dissolved Solids	APHA 23rd Edition, 2540 – C & IS 3025 (Part 16): 1984	5 mg/L to 30000 mg/L
90	CHEMICAL- WATER	Surface & Ground Water	Total Hardness	APHA 23rd Edition, 2340 - C & IS 3025 (Part 21): 1983	5 mg/L to 10000 mg/L
91	CHEMICAL- WATER	Surface & Ground Water	Total Solids	APHA 23rd Edition, 2540 – B & IS 3025 (Part 15): 1984	5 mg/L to 10000 mg/L
92	CHEMICAL- WATER	Surface & Ground Water	Total Suspended Solids	APHA 23rd Edition, 2540 – D & IS 3025 (Part 17): 1984	2 mg/L to 1000 mg/L



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93	CHEMICAL- WATER	Surface & Ground Water	Turbidity	APHA 23rd Edition, 2130 – B & IS 3025 (Part 10) Nephelometric Method: 1984	1 NTU to 1000 NTU