

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Essquare Geo Services LLP

No.6, Aviskar Apartment, 2, Suvarnapuri Society, Chikuwadi, Jetalpur Road,
Vadodara-390007, Gujarat, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2025/0118

Valid from: 14 May 2025

Valid until: 13 May 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking Water	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34) Sec 1: 2023
2.	Drinking Water	Bicarbonate	IS 3025 (Part 51): 2023
3.	Drinking Water	Calcium as Ca	IS 3025 (Part 40) :2024
4.	Drinking Water	Calcium Hardness as CaCO ₃	IS 3025 (Part 40) :2024
5.	Drinking Water	Carbonate	IS 3025 (Part 51): 2023
6.	Drinking Water	Chloride as Cl	IS 3025 (Part 32) :1988 (RA 2019)
7.	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38):1989 (RA 2019)
8.	Drinking Water	Electrical Conductivity @25 ° C	IS 3025 (Part 14) 2013 (RA 2023)
9.	Drinking Water	Fluoride as F	IS 3025 (Part 60) Sec 1: 2023
10.	Drinking Water	Iron as Fe	IS 3025 (Part 53): 2024
11.	Drinking Water	Magnesium as Mg	IS 3025 (Part 46) :2023
12.	Drinking Water	Magnesium Hardness as CaCO ₃	IS 3025 (Part 46): 2023
13.	Drinking Water	Nitrate	IS 3025 (Part 34) Sec 1: 2023
14.	Drinking Water	pH at 25° C	IS 3025 (Part 11): 2022
15.	Drinking Water	Phosphate	IS 3025 (Part 31) Sec 1: 2022
16.	Drinking Water	Potassium as K	IS 3025 (Part 45): 2024
17.	Drinking Water	Reactive Silica as SiO ₂	IS 3025 (Part 35): 2024

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	Water		
18.	Drinking Water	Residual Chlorine	IS 3025 (Part 26): 2021
19.	Drinking Water	Sodium as Na	IS 3025 (Part 45): 2024
20.	Drinking Water	Sulphate as SO ₄	IS 3025 (Part 24) Sec 1: 2022
21.	Drinking Water	Temperature	IS 3025 (Part 9): 2023
22.	Drinking Water	Total Acidity as CaCO ₃	IS 3025 (Part 22): 2024
23.	Drinking Water	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023
24.	Drinking Water	Total dissolved solids	IS 3025 (Part 16): 2023
25.	Drinking Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 (RA 2023)
26.	Drinking Water	Total solids	IS 3025 (Part 15): 2023
27.	Drinking Water	Total Suspended solids	IS 3025 (Part 17): 2022
28.	Drinking Water	Turbidity	IS 3025 (Part 10): 2023
29.	Drinking Water	Taste	IS 3025 (PART 8): 2023
30.	Drinking Water	Odour	IS 3025 (PART 5): 2018
31.	Ground Water	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34) Sec 1: 2023
32.	Ground Water	Bicarbonate	IS 3025 (Part 51): 2023
33.	Ground Water	Bio Chemical Oxygen Demand at 27 °C for 3 Days	IS 3025 (Part 44): 2023
34.	Ground Water	Calcium as Ca	IS 3025 (Part 40) :2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
35.	Ground Water	Calcium Hardness as CaCO ₃	IS 3025 (Part 40) :2024
36.	Ground Water	Carbonate	IS 3025 (Part 51):2023
37.	Ground Water	Chemical Oxygen Demand	IS 3025 (Part 58) :2023
38.	Ground Water	Chloride as Cl	IS 3025 (Part 32) :1988 (RA 2019)
39.	Ground Water	Dissolved Oxygen (DO)	IS 3025 (Part 38):1989 (RA 2019)
40.	Ground Water	Electrical Conductivity at 25 °C	IS 3025 (Part 14) 2013 (RA2023)
41.	Ground Water	Fluoride	IS 3025 (Part 60) Sec 1: 2023
42.	Ground Water	Iron as Fe	IS 3025 (Part 53):2024
43.	Ground Water	Magnesium as Mg	IS 3025 (Part 46) :2023
44.	Ground Water	Magnesium Hardness as CaCO ₃	IS 3025 (Part 46) :2023
45.	Ground Water	Nitrate	IS 3025 (Part 34) Sec 1: 2023
46.	Ground Water	Oil & Grease	IS 3025 (Part 39) :2021
47.	Ground Water	pH at 25 °C	IS 3025 (Part 11): 2022
48.	Ground Water	Phosphate	IS 3025 (Part 31) Sec 1: 2023
49.	Ground Water	Potassium as K	IS 3025 (Part 45): 2024
50.	Ground Water	Reactive Silica as SiO ₂	IS 3025 (Part 35):2024
51.	Ground Water	Residual Chlorine	IS 3025 (Part 26): 2021
52.	Ground Water	Sodium as Na	IS 3025 (Part 45): 2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
53.	Ground Water	SulphateSO4	IS 3025 (Part 24) Sec 1: 2022
54.	Ground Water	Temperature	IS 3025 (Part 9): 2023
55.	Ground Water	Total Acidity as CaCO3	IS 3025 (Part 22): 2024
56.	Ground Water	Total Alkalinity as CaCO3	IS 3025 (Part 23): 2024
57.	Ground Water	Total dissolved solids	IS 3025 (Part 16): 2023
58.	Ground Water	Total Hardness as CaCO3	IS 3025 (Part 21): 2009 (RA 2023)
59.	Ground Water	Total solids	IS 3025 (Part 15): 2019
60.	Ground Water	Total Suspended solids	IS 3025 (Part 17): 2022
61.	Ground Water	Turbidity	IS 3025 (Part 10): 2023
62.	Ground Water	Taste	IS 3025 (PART 8): 2023
63.	Ground Water	Odour	IS 3025 (Part 5): 2018
64.	Surface Water	Ammonical Nitrogen as NH3-N	IS 3025 (Part 34) Sec 1: 2023
65.	Surface Water	Bicarbonate	IS 3025 (Part 51): 2023
66.	Surface Water	Bio Chemical Oxygen Demand@ 27°C for 3 Days	IS 3025 (Part 44): 2023
67.	Surface Water	Calcium as Ca	IS 3025 (Part 40) :2024
68.	Surface Water	Calcium Hardness as CaCO3	IS 3025 (Part 40) :2024
69.	Surface Water	Carbonate	IS 3025 (Part 51): 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
70.	Surface Water	Chemical Oxygen Demand	IS 3025 (Part 58) :2023
71.	Surface Water	Chloride as Cl	IS 3025 (Part 32) :1988 (RA 2019)
72.	Surface Water	Dissolve Oxygen (DO)	IS 3025 (Part 38) :1989 (RA 2019)
73.	Surface Water	Electrical Conductivity at 25°C	IS 3025 (Part 14) 2013 (RA 2023)
74.	Surface Water	Fluoride	IS 3025 (Part 60) Sec 1: 2023
75.	Surface Water	Iron as Fe	IS 3025 (Part 53) :2024
76.	Surface Water	Magnesium as Mg	IS 3025 (Part 46) :2023
77.	Surface Water	Magnesium Hardness as CaCO ₃	IS 3025 (Part 46) :2023
78.	Surface Water	Nitrate	IS 3025 (Part 34) Sec 1: 2023
79.	Surface Water	Oil & Grease	IS 3025 (Part 39) :2021
80.	Surface Water	pH at 25°C	IS 3025 (Part 11) :2022
81.	Surface Water	Phosphate	IS 3025 (Part 31) Sec 1: 2023
82.	Surface Water	Potassium as K	IS 3025 (Part 45) :2024
83.	Surface Water	Reactive Silica as SiO ₂	IS 3025 (Part 35) :2024
84.	Surface Water	Residual Chlorine	IS 3025 (Part 26) 2021
85.	Surface Water	Sodium as Na	IS 3025 (Part 45) :2024
86.	Surface Water	Sulphate SO ₄	IS 3025 (Part 24) Sec 1: 2022
87.	Surface Water	Temperature	IS 3025 (Part 9) :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
88.	Surface Water	Total Acidity as CaCO ₃	IS 3025 (Part 22):2024
89.	Surface Water	Total Alkalinity as CaCO ₃	IS 3025 (Part 23):2024
90.	Surface Water	Total dissolved solids	IS 3025 (Part 16):2023
91.	Surface Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 (RA 2023)
92.	Surface Water	Total Solids	IS 3025 (Part 15):2019
93.	Surface Water	Total Suspended solids	IS 3025 (Part 17):2022
94.	Surface Water	Turbidity	IS 3025 (Part 10):2023
95.	Surface Water	Taste	IS 3025 (PART 8): 2023
96.	Surface Water	Odour	IS 3025 (PART 5): 2018
97.	Swimming Pool Water	pH	IS 3025 (Part 11): 2022
98.	Swimming Pool Water	Total alkalinity	IS 3025 (Part 23): 2024
99.	Swimming Pool Water	Residual Chlorine(inlet)	IS 3025 (Part 26): 2021
100.	Swimming Pool Water	Residual Chlorine (Outlet)	IS 3025 (Part 26): 2021
101.	Swimming Pool Water	Total dissolved solids	IS 3025 (Part 16): 2023
102.	Swimming Pool Water	Chloride	IS 3025 (Part 32) :1988 (RA 2019)
103.	Swimming Pool Water	Iron as Fe	IS 3025 (Part 53) :2024
104.	Swimming Pool Water	Turbidity	IS 3025 (Part 10): 2023
105.	Swimming Pool Water	Taste	IS 3025 (PART 8):2023
106.	Swimming Pool Water	Odour	IS 3025 (PART 5): 2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
1.	Waste Water (Effluents/ Sewage)	Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part 34) Sec 1: 2023
2.		Bio Chemical Oxygen Demand at 27°C for 3 Days	IS 3025 (Part 44):2023
3.		Chemical Oxygen Demand	IS 3025 (Part 58):2023
4.		Chloride as Cl	IS 3025 (Part 32) :1988 (RA 2019)
5.		Dissolved Oxygen (DO)	IS 3025(Part 38) :1989(RA2019)
6.		Electrical Conductivity at 25°C	IS 3025(Part 14) 2013 (RA 2023)
7.		Fluoride	IS 3025 (Part 60) Sec 1: 2023
8.		Iron as Fe	IS 3025 (Part 53):2024
9.		Nitrate	CPCB Guideline for Water & Wastewater (Page No.104-108)
10.		Oil & Grease	IS 3025 (Part 39):2021
11.		pH at 25°C	IS 3025 (Part 11):2022
12.		Phosphate	IS 3025 (Part 31) Sec 1: 2023
13.		Potassium as K	IS 3025 (Part 45):2024
14.		Reactive Silica as SiO ₂	IS 3025 (Part 35):2024
15.		Residual Chlorine	IS 3025 (Part 26):2021
16.		Sodium as Na	IS 3025 (Part 45):2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
17.	Waste Water (Effluents/ Sewage)	Sulphate as SO ₄	IS 3025 (Part 24) Sec 1: 2022
18.		Temperature	IS 3025 (Part 9): 2023
19.		Total dissolved solids	IS 3025 (Part 16): 2023
20.		Total solids	IS 3025 (Part 15): 2019
21.		Total Suspended solids	IS 3025 (Part 17): 2022



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
1.	Soil	Calcium as Ca	IS 5949:1990 (RA 2024)
2.	Soil	Available Chloride as Cl-	SOP for Soil Analysis EGSL/SOP-S/CI/15, Issue No. 1 Dated 30/05/2024 Based on Methods in Hand book of Methods in Environmental Studies (Volume-II)
3.	Soil	Magnesium as Mg	IS 5949:1990(RA 2024)
4.	Soil	Available Phosphorus as P	IS 6361:1971 (RA 2024)
5.	Soil	Potassium as K	IS 9497:1980(RA 2024)
6.	Soil	Sodium as Na	IS 9497:1980(RA 2024)
7.	Soil	Bulk Density	IS: 2720 (Part 8):1983(RA 2020)
8.	Soil	Electrical Conductivity at 25 C	IS 14767:2000 (RA 2021)
9.	Soil	Moisture/Water Content	IS 2720 (Part 02):1973(RA 2020)
10.	Soil	Organic Carbon	IS 2720 (Part 22):1972(RA 2020)
11.	Soil	Organic matter	IS 2720 (Part 22):1972 (RA 2020)
12.	Soil	pH at 25 C	IS 2720 (Part 26):1987(RA 2021)
13.	Soil	Pore Space	SOP for Soil Analysis EGSL/SOP-S/PS/08, Issue No. 1 Dated 30/05/2024 Based on Methods in Handbook of Methods in Environmental Studies (Volume-II)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Soil and Rock		
14.	Soil	Total Nitrogen as N	IS 14684:1999(RA 2019)
15.	Soil	Total Soluble Sulphates	IS :2720 (Part 27) 1977 (RA 2020)
16.	Soil	Nitrate	SOP for Soil Analysis EGSL/SOP-S/NO3/20 Issue No. 1 Dated 30/05/2024 Based on Methods in Manual by Department of Agriculture & Cooperation Ministry of Agriculture Government of India

