National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ESSQUARE GEO SERVICES (LABORATORY DIVISION), 6, AVISHKAR APARTMENT, 2 SUVARNPURI SOCIETY, CHIKUWADI,JETALPUR ROAD, VADODARA, GUJARAT, 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- POLLUTION & ENVIRONMENT	Soil	Calcium as Ca	IS 5949:1990/Reaffirmed 2020
2	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Magnesium as Mg	IS 5949:1990/Reaffirmed 2020
3	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sodium as Na	IS 9497:1980/Reaffirmed 2020
4	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Chloride as Cl-	SOP for Soil Analysis EGS/SOP-S/Cl, Issue No. 2 Dated 02/07/2021 Based on Methods Manual, Soil Testing in India"
5	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorus as P	IS 6361:1971/Reaffirmed 2020
6	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Bulk Density	IS: 2720 (Part 8)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium Carbonate	IS 2720 (Part 23):1976/Reaffirmed 2015
8	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	IS 14767:2000/Reaffirmed 2016
9	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture/Water Content	IS 2720 (Part 02):1973/Reaffirmed 2015
10	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Nitrate	SOP for Soil Analysis EGS/SOP-S/NO3, Issue No. 2 Dated 02/07/2021
11	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Carbon	IS 2720 (Part 22):1972/Reaffirmed 2015
12	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic matter	IS 2720 (Part 22):1972/Reaffirmed 2015
13	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS 2720(Part 26):1987/ Reaffirmed 2016
14	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Pore Space	SOP for Soil Analysis EGS/SOP-S/PS, Issue No. 2 Dated 02/07/2021
15	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Potassium as K	IS 9497:1980/Reaffirmed 2020
16	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Specific Gravity	IS: 2720 (Part 3):1980/ Reaffirmed 2015
17	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Nitrogen as N	IS 14684:1999/Reaffirmed 2014

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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
18	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Soluble Sulphates	IS :2720 (Part 28)1976/ Reaffirmed 2015
19	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation Exchange Capacity	IS:2720 (Part 24):1976/ Reaffirmed 2015
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexa valent Chromium as Cr+6	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron as Fe	APHA, 23rd Edition 2017/Phenanthroline Method 3500 B-Fe
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese as Mn	APHA, 23rd Edition 2017/Persulfate Method 3500-Mn B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate	APHA, 23rd Edition 2017/Ultraviolet Spectrophotometric Screening Method 4500-NO3 B"
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite	APHA, 23rd Edition 2017/Colorimetric Method 4500-NO2- B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA, 23rd Edition 2017/Liquid-Liquid ,Partition-Gravimetric Method 5520 B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA, 23rd Edition 2017/Electrometric Method 4500-H+ B
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium as Na	APHA, 23rd Edition 2017/Flame Emission Photometric Method 3500-Na B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended solids	APHA, 23rd Edition 2017/ Total Suspended Solids Dried at 103-105°C 2540-D
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen as NH3-N	APHA, 23rd Edition 2017/Preliminary Distillation Step & Titrimetric Method 4500- NH3 B & C
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993/Reaffirmed 2019
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	IS 3025 (Part 58):2006/Reaffirmed 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
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride as Cl	APHA, 23rd Edition 2017/ Argentometric Method 4500-Cl-B
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium as Cr	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color	APHA, 23rd Edition 2017/ Spectrophotometric 2120 C,Visual Comparison 2120-B
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper as Cu	APHA, 23rd Edition 2017/Bathocuproine Method 3500-Cu C
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen (DO)	APHA, 23rd Edition 2017/Azide Modification 4500-C
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Electrical Conductivity	APHA, 23rd Edition 2017/Laboratory Method 2510-B
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA, 23rd Edition 2017/Preliminary Distillation Step & SPADNS Method 4500-F B & D
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate	APHA, 23rd Edition 2017/Stannous Chloride Method 4500-P, C-D
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium as K	APHA, 23rd Edition 2017/Flame Photometric Method 3500-K B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Reactive Silica as SiO2	APHA,23rd Edition 2017/Molybdosilicate Method 4500-SiO2 C
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Residual Chlorine	APHA, 23rd Edition 2017/Iodometric Method-I 4500-Cl B
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulfide as H2S	APHA, 23rd Edition 2017/Iodometric Method 4500-S-2 F
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate as SO4	APHA, 23rd Edition 2017/Turbidimetric Method 4500-SO42-
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	APHA, 23rd Edition 2017/Laboratory and Field Method 2550-B

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Laboratory Name : ESSQUARE GEO SERVICES (LABORATORY DIVISION), 6, AVISHKAR APARTMENT, 2 SUVARNPURI SOCIETY, CHIKUWADI,JETALPUR ROAD, VADODARA, GUJARAT, INDIA

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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
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total dissolved solids	APHA, 23rd Edition 2017/ Total Dissolved Solids Dried at 180°C 2540-C
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldahl Nitrogen as TKN	APHA, 23rd Edition 2017/Macro-Kjeldahl Method 4500-Norg –B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total solids	APHA, 23rd Edition 2017/ Total Solids Dried at 103-105°C 2540-B
49	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen as NH3-N	IS 3025 (Part 34):1988/Reaffirmed 2019
50	CHEMICAL- WATER	Drinking Water	Bicarbonate	IS 3025 (Part 51):2001/ Reaffirmed 2017
51	CHEMICAL- WATER	Drinking Water	Boron	IS 3025 (Part 57):2005/ Reaffirmed 2017
52	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40):1991/Reaffirmed 2019
53	CHEMICAL- WATER	Drinking Water	Calcium Hardness as CaCO3	IS 3025 (Part 40):1991/Reaffirmed 2019
54	CHEMICAL- WATER	Drinking Water	Carbonate	IS 3025 (Part 51):2001/ Reaffirmed 2017
55	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS 3025 (Part 32):1988/Reaffirmed 2019
56	CHEMICAL- WATER	Drinking Water	Chromium as Cr	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
57	CHEMICAL- WATER	Drinking Water	Color	APHA, 23rd Edition 2017/ Spectrophotometric 2120 C,
58	CHEMICAL- WATER	Drinking Water	Copper as Cu	APHA, 23rd Edition 2017/Bathocuproine Method 3500-Cu C
59	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen (DO)	IS 3025 (Part 38):1989/Reaffirmed 2019
60	CHEMICAL- WATER	Drinking Water	Electrical Conductivity @° C	IS 3025 (Part 14):1984/Reaffirmed 2019
61	CHEMICAL- WATER	Drinking Water	Fluoride as F-	APHA, 23rd Edition 2017/Preliminary Distillation Step & SPADNS Method 4500-F B & D

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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
62	CHEMICAL- WATER	Drinking Water	Hexa valent Chromium as Cr+6	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
63	CHEMICAL- WATER	Drinking Water	Iron as Fe	APHA, 23rd Edition 2017/Phenanthroline Method 3500 B-Fe
64	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part 46):1994/Reaffirmed 2019
65	CHEMICAL- WATER	Drinking Water	Magnesium Hardness as CaCO3	IS 3025 (Part 46):1994/Reaffirmed 2019
66	CHEMICAL- WATER	Drinking Water	Manganese as Mn	APHA, 23rd Edition 2017/Persulfate Method 3500-Mn B
67	CHEMICAL- WATER	Drinking Water	Nitrate	"APHA, 23rd Edition 2017/Ultraviolet Spectrophotometric Screening Method 4500-NO3 B"
68	CHEMICAL- WATER	Drinking Water	Nitrite	IS 3025 (Part 34):1988/Reaffirmed 2019
69	CHEMICAL- WATER	Drinking Water	Odor	IS 3025 (Part 05):2018
70	CHEMICAL- WATER	Drinking Water	pH @° C	IS 3025 (Part 11):1983/Reaffirmed 2017
71	CHEMICAL- WATER	Drinking Water	Phosphate	IS 3025 (Part 31):1988/Reaffirmed 2019
72	CHEMICAL- WATER	Drinking Water	Potassium as K	IS 3025 (Part 45):1993/Reaffirmed 2019
73	CHEMICAL- WATER	Drinking Water	Reactive Silica as SiO2	IS 3025 (Part 35):1988/Reaffirmed 2019
74	CHEMICAL- WATER	Drinking Water	Residual Chlorine	IS 3025 (Part 26)
75	CHEMICAL- WATER	Drinking Water	Sodium as Na	IS 3025 (Part 45):1993/Reaffirmed 2019
76	CHEMICAL- WATER	Drinking Water	Sulfide	IS 3025 (Part 29):1986/Reaffirmed 2019
77	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	IS 3025 (Part 24):1986/Reaffirmed 2019
78	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 07):2017
79	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part 09):1984/Reaffirmed 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
80	CHEMICAL- WATER	Drinking Water	Total Acidity as CaCO3	IS 3025 (Part 22):1986/Reaffirmed 2019
81	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 (Part 23):1986/Reaffirmed 2019
82	CHEMICAL- WATER	Drinking Water	Total dissolved solids	IS 3025 (Part 16):1984/Reaffirmed 2017
83	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 (Part 21):2009/Reaffirmed 2019
84	CHEMICAL- WATER	Drinking Water	Total solids	IS 3025 (Part 15):1984/Reaffirmed 2019
85	CHEMICAL- WATER	Drinking Water	Total Suspended solids	IS 3025 (Part 17):1984/Reaffirmed 2017
86	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10):1984/Reaffirmed 2017
87	CHEMICAL- WATER	Ground Water	Copper as Cu	APHA, 23rd Edition 2017/Bathocuproine Method 3500-Cu C
88	CHEMICAL- WATER	Ground Water	Dissolved Oxygen (DO)	APHA, 23rd Edition 2017/Azide Modification 4500-C
89	CHEMICAL- WATER	Ground Water	Electrical Conductivity	APHA, 23rd Edition 2017/Laboratory Method 2510-B
90	CHEMICAL- WATER	Ground Water	Fluoride	APHA, 23rd Edition 2017/Preliminary Distillation Step & SPADNS Method 4500-F B & D
91	CHEMICAL- WATER	Ground Water	Hexa valent Chromium as Cr+6	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
92	CHEMICAL- WATER	Ground Water	Iron as Fe	APHA, 23rd Edition 2017/Phenanthroline Method 3500 B-Fe
93	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA, 23rd Edition 2017/Calculation Method 3500 –Mg B
94	CHEMICAL- WATER	Ground Water	Magnesium Hardness as CaCO3	APHA, 23rd Edition 2017/Calculation Method 3500 –Mg B

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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
95	CHEMICAL- WATER	Ground Water	Manganese as Mn	APHA, 23rd Edition 2017/Persulfate Method 3500-Mn B
96	CHEMICAL- WATER	Ground Water	Sodium as Na	APHA, 23rd Edition 2017/Flame Emission Photometric Method 3500-Na B
97	CHEMICAL- WATER	Ground Water	Sulfide as H2S	APHA, 23rd Edition 2017/Iodometric Method 4500-S-2 F
98	CHEMICAL- WATER	Ground Water	Sulphate SO4	APHA, 23rd Edition 2017/Turbidimetric Method 4500-SO42-
99	CHEMICAL- WATER	Ground Water	Taste	APHA, 23rd Edition 2017/Flavor Threshold Test 2160-B
100	CHEMICAL- WATER	Ground Water	Temperature	APHA, 23rd Edition 2017/Laboratory and Field Method 2550-B
101	CHEMICAL- WATER	Ground Water	Total Acidity as CaCO3	APHA, 23rd Edition 2017/Titration Method 2310-B
102	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	APHA, 23rd Edition 2017/Titration Method 2320-B
103	CHEMICAL- WATER	Ground Water	Total dissolved solids	APHA, 23rd Edition 2017/ Total Dissolved Solids Dried at 180°C 2540-C
104	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA, 23rd Edition 2017/EDTA Titrimetric Method 2340-C
105	CHEMICAL- WATER	Ground Water	Turbidity	APHA, 23rd Edition 2017/ Nephelometric Method 2130-B
106	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen as NH3-N	APHA, 23rd Edition 2017/Preliminary Distillation Step & Titrimetric Method 4500- NH3 B & C
107	CHEMICAL- WATER	Ground Water	Bicarbonate	APHA, 23rd Edition 2017/Titration Method 2320-B
108	CHEMICAL- WATER	Ground Water	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993/Reaffirmed 2019
109	CHEMICAL- WATER	Ground Water	Boron	IS 3025 (Part 57):2005/Reaffirmed 2017
110	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA, 23rd Edition 2017/EDTA Titrimetric Method 3500-Ca-B

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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
111	CHEMICAL- WATER	Ground Water	Calcium Hardness as CaCO3	APHA, 23rd Edition 2017/EDTA Titrimetric Method 3500-Ca-B
112	CHEMICAL- WATER	Ground Water	Carbonate	APHA, 23rd Edition 2017/Titration Method 2320-B
113	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	IS 3025 (Part 58):2006/Reaffirmed 2017
114	CHEMICAL- WATER	Ground Water	Chloride as Cl	APHA, 23rd Edition 2017/ Argentometric Method 4500-Cl- B
115	CHEMICAL- WATER	Ground Water	Chromium as Cr	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
116	CHEMICAL- WATER	Ground Water	Color	APHA, 23rd Edition 2017/ Spectrophotometric 2120 C
117	CHEMICAL- WATER	Ground Water	Nitrate	"APHA, 23rd Edition 2017/Ultraviolet Spectrophotometric Screening Method 4500-NO3 B"
118	CHEMICAL- WATER	Ground Water	Nitrite	APHA, 23rd Edition 2017/Colorimetric Method 4500-NO2- B
119	CHEMICAL- WATER	Ground Water	Odor	APHA, 23rd Edition 2017/Threshold Odor Test 2150-B
120	CHEMICAL- WATER	Ground Water	Oil & Grease	APHA, 23rd Edition 2017/Liquid-Liquid ,Partition-Gravimetric Method 5520 B
121	CHEMICAL- WATER	Ground Water	pH	APHA, 23rd Edition 2017/Electrometric Method 4500-H+ B
122	CHEMICAL- WATER	Ground Water	Phosphate	APHA, 23rd Edition 2017/Stannous Chloride Method 4500-P, C-D
123	CHEMICAL- WATER	Ground Water	Potassium as K	APHA, 23rd Edition 2017/Flame Photometric Method 3500-K B
124	CHEMICAL- WATER	Ground Water	Reactive Silica as SiO2	APHA,23rd Edition 2017/Molybdosilicate Method 4500-SiO2 C
125	CHEMICAL- WATER	Ground Water	Residual Chlorine	APHA, 23rd Edition 2017/Iodometric Method-I 4500-Cl B

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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
126	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen as TKN	APHA, 23rd Edition 2017/Macro-Kjeldahl Method 4500-Norg –B
127	CHEMICAL- WATER	Ground Water	Total solids	APHA, 23rd Edition 2017/ Total Solids Dried at 103-105°C 2540-B
128	CHEMICAL- WATER	Ground Water	Total Suspended solids	APHA, 23rd Edition 2017/ Total Suspended Solids Dried at 103-105°C 2540-D
129	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen as NH3-N	APHA, 23rd Edition 2017/Preliminary Distillation Step & Titrimetric Method 4500- NH3 B & C
130	CHEMICAL- WATER	Surface Water	Bicarbonate	IS 3025 (Part 51):2001/Reaffirmed 2017
131	CHEMICAL- WATER	Surface Water	Bio Chemical Oxygen Demand @ 27 °C for 3 Days	IS 3025 (Part 44):1993/Reaffirmed 2019
132	CHEMICAL- WATER	Surface Water	Boron	IS 3025 (Part 57):2005/Reaffirmed 2017
133	CHEMICAL- WATER	Surface Water	Calcium as Ca	APHA, 23rd Edition 2017/EDTA Titrimetric Method 3500-Ca-B
134	CHEMICAL- WATER	Surface Water	Calcium Hardness as CaCO3	APHA, 23rd Edition 2017/EDTA Titrimetric Method 3500-Ca-B
135	CHEMICAL- WATER	Surface Water	Carbonate	IS 3025 (Part 51):2001/Reaffirmed 2017
136	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand	IS 3025 (Part 58):2006/Reaffirmed 2017
137	CHEMICAL- WATER	Surface Water	Chloride as Cl	APHA, 23rd Edition 2017/ Argentometric Method 4500-Cl-B
138	CHEMICAL- WATER	Surface Water	Chromium as Cr	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
139	CHEMICAL- WATER	Surface Water	Copper as Cu	APHA, 23rd Edition 2017/Bathocuproine Method 3500-Cu C
140	CHEMICAL- WATER	Surface Water	Dissolved Oxygen (DO)	APHA, 23rd Edition 2017/Azide Modification 4500-C

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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
141	CHEMICAL- WATER	Surface Water	Electrical Conductivity	APHA, 23rd Edition 2017/Laboratory Method 2510-B
142	CHEMICAL- WATER	Surface Water	Fluoride	APHA, 23rd Edition 2017/Preliminary Distillation Step & SPADNS Method 4500-F B & D
143	CHEMICAL- WATER	Surface Water	Hexa valent Chromium as Cr+6	APHA, 23rd Edition 2017/Colorimetric Method 3500-Cr B
144	CHEMICAL- WATER	Surface Water	Iron as Fe	APHA, 23rd Edition 2017/Phenanthroline Method 3500 B-Fe
145	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA, 23rd Edition 2017/Calculation Method 3500 –Mg B
146	CHEMICAL- WATER	Surface Water	Magnesium Hardness as CaCO3	APHA, 23rd Edition 2017/Calculation Method 3500 –Mg B
147	CHEMICAL- WATER	Surface Water	Manganese as Mn	APHA, 23rd Edition 2017/Persulfate Method 3500-Mn B
148	CHEMICAL- WATER	Surface Water	Nitrate	"APHA, 23rd Edition 2017/Ultraviolet Spectrophotometric Screening Method 4500-NO3 B"
149	CHEMICAL- WATER	Surface Water	Nitrite	APHA, 23rd Edition 2017/Colorimetric Method 4500-NO2- B
150	CHEMICAL- WATER	Surface Water	Odor	APHA, 23rd Edition 2017/Threshold Odor Test 2150-B
151	CHEMICAL- WATER	Surface Water	Oil & Grease	APHA, 23rd Edition 2017/Liquid-Liquid ,Partition-Gravimetric Method 5520 B
152	CHEMICAL- WATER	Surface Water	pH	APHA, 23rd Edition 2017/Electrometric Method 4500-H+ B
153	CHEMICAL- WATER	Surface Water	Phosphate	APHA, 23rd Edition 2017/Stannous Chloride Method 4500-P, C-D

SCOPE OF ACCREDITATION

Laboratory Name : ESSQUARE GEO SERVICES (LABORATORY DIVISION), 6, AVISHKAR APARTMENT, 2 SUVARNPURI SOCIETY, CHIKUWADI,JETALPUR ROAD, VADODARA, GUJARAT, 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
154	CHEMICAL- WATER	Surface Water	Potassium as K	APHA, 23rd Edition 2017/Flame Photometric Method 3500-K B
155	CHEMICAL- WATER	Surface Water	Reactive Silica as SiO2	APHA,23rd Edition 2017/Molybdosilicate Method 4500-SiO2 C
156	CHEMICAL- WATER	Surface Water	Residual Chlorine	APHA, 23rd Edition 2017/Iodometric Method-I 4500-Cl B
157	CHEMICAL- WATER	Surface Water	Sodium as Na	APHA, 23rd Edition 2017/Flame Emission Photometric Method 3500-Na B
158	CHEMICAL- WATER	Surface Water	Sulfide as H2S	APHA, 23rd Edition 2017/Iodometric Method 4500-S-2 F
159	CHEMICAL- WATER	Surface Water	Sulphate SO4	APHA, 23rd Edition 2017/Turbidimetric Method 4500-SO42-
160	CHEMICAL- WATER	Surface Water	Taste	APHA, 23rd Edition 2017/Flavor Threshold Test 2160-B
161	CHEMICAL- WATER	Surface Water	Temperature	APHA, 23rd Edition 2017/Laboratory and Field Method 2550-B
162	CHEMICAL- WATER	Surface Water	Total Acidity as CaCO3	APHA, 23rd Edition 2017/Titration Method 2310-B
163	CHEMICAL- WATER	Surface Water	Total Alkalinity as CaCO3	APHA, 23rd Edition 2017/Titration Method 2320-B
164	CHEMICAL- WATER	Surface Water	Total dissolved solids	APHA, 23rd Edition 2017/ Total Dissolved Solids Dried at 180°C 2540-C
165	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	APHA, 23rd Edition 2017/EDTA Titrimetric Method 2340-C
166	CHEMICAL- WATER	Surface Water	Total solids	APHA, 23rd Edition 2017/ Total Solids Dried at 103-105°C 2540-B
167	CHEMICAL- WATER	Surface Water	Total Suspended solids	APHA, 23rd Edition 2017/ Total Suspended Solids Dried at 103-105°C 2540-D
168	CHEMICAL- WATER	Surface Water	Turbidity	APHA, 23rd Edition 2017/ Nephelometric Method 2130-B

SCOPE OF ACCREDITATION

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169	CHEMICAL- WATER	Surface Water	Color	APHA, 23rd Edition 2017/ Spectrophotometric 2120 C
170	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen as TKN	APHA, 23rd Edition 2017/Macro-Kjeldahl Method 4500-Norg –B