National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KEMSTER ANALYTICAL SOLUTIONS, PLOT NO:69/4,6TH MAIN, 3RD PHASE,, BENGALURU, BENGALURU URBAN, KARNATAKA, 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- ATMOSPHERIC POLLUTION	ambient air	Oxides of Nitrogen as NO2	IS:5182(part-6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	ambient air	particulate matter (particle size less than 10 microns)(PM10)	IS:5182(part -23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter (particle size less than 2.5 microns) (PM 2.5)	IS:5182 (Part-24)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	sulphur Dioxide as SO2	IS 5182(Part -2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	stack Emission	Carbon Dioxide as CO2	IS:13270
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide as CO	IS:13270
7	CHEMICAL- ATMOSPHERIC POLLUTION	stack emission	Emission rate	IS:11255 (part-3)
8	CHEMICAL- ATMOSPHERIC POLLUTION	stack Emission	Flow Discharge Rate	IS 11255(part-3)
9	CHEMICAL- ATMOSPHERIC POLLUTION	stack Emission	Oxides of Nitrogen as Nox	IS:11255(part-7)
10	CHEMICAL- ATMOSPHERIC POLLUTION	stack emission	oxygen as O2	IS:13270
11	CHEMICAL- ATMOSPHERIC POLLUTION	stack emission	particulate matter	IS:11255(part-1)
12	CHEMICAL- ATMOSPHERIC POLLUTION	stack emission	stack temperature	IS:11255(part-3)
13	CHEMICAL- ATMOSPHERIC POLLUTION	stack emission	stack Velocity	IS:11255(part-3)
14	CHEMICAL- ATMOSPHERIC POLLUTION	stack emission	sulphur Dioxide as SO2	IS:11255(PART-2)
15	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Acidity as CaCo3	IS:3025(part-22)
16	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Ammonical Nitrogen NH3	IS:3025(Part-34)
17	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Biochemical Oxygen Demand,BOD (3 days)	IS:3025(part-44)
18	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	CAlcium as Ca	IS:3025(part-40)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Chemical oxygen Demand COD	IS:3025(part-58)
20	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Chloride as cl	IS:3025(part-26)
21	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Chlorine Residual	IS:3025(part -26)
22	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	colour	IS:3025(part-4)
23	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Electrical conductivity @ 25°c	IS:3025(part-14)
24	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	oil & Grease	IS:3025(part-39)
25	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	ph @ 25°c	IS:3025(part-11)
26	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	phosphorus	IS:3025(part-31)
27	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	sulphate as So4	IS:30259part-24)
28	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	sulphide	IS:3025(part-29)
29	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Temperature	IS:3025(part-9)
30	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Total Alkalinity as CaCo3	IS:3025(part-23)
31	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Total Dissolved Solids	IS:3025(part-21)
32	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Total Hardness as CaCo3	IS:3025(part-21)
33	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Total Suspended solids	IS:3025(part-17)
34	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Turbidity	IS:3025(part-10)
35	CHEMICAL- WATER	Borewell water	% Sodium	IS:11624
36	CHEMICAL- WATER	Borewell water	Ammonical Nitrogen NH3-N	IS:30259part-34)
37	CHEMICAL- WATER	Borewell water	Bicarbonate as HCo3	IS:3025(part-51)
38	CHEMICAL- WATER	Borewell water	Boron as B	IS:3025(part-57)
39	CHEMICAL- WATER	Borewell water	Calcium as Ca	IS:3025(part-40)

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40	CHEMICAL- WATER	Borewell water	Chloride as Cl	IS:3025(part-32)
41	CHEMICAL- WATER	Borewell water	Chlorine Residual	IS:3025(part-26)
42	CHEMICAL- WATER	Borewell water	Chromium Hexavalent as Cr+6	IS:3025(part-52)
43	CHEMICAL- WATER	Borewell water	Colour	IS:3025(part-4)
44	CHEMICAL- WATER	Borewell water	Conductivity @ 25°c	IS:3025(part-14)
45	CHEMICAL- WATER	Borewell water	Iron as Fe	IS:3025(part-53)
46	CHEMICAL- WATER	Borewell water	Magnesium as mg	Is:3025(part-46)
47	CHEMICAL- WATER	Borewell water	Nitrate as No3-N	IS:3025(part-34)
48	CHEMICAL- WATER	Borewell water	Nitrite Nitrogen as No2-N	IS:3025(part-34)
49	CHEMICAL- WATER	Borewell water	ph @ 25°c	IS:3025(part-11)
50	CHEMICAL- WATER	Borewell water	Phosphorus	IS:3025(part-31)
51	CHEMICAL- WATER	Borewell water	Residual Sodium Carbonate	IS:11324
52	CHEMICAL- WATER	Borewell water	Sodium absorption ratio	IS:11624
53	CHEMICAL- WATER	Borewell water	Sulphate as So4	IS:3025(part-24)
54	CHEMICAL- WATER	Borewell water	Sulphide	IS:3025(part-29)
55	CHEMICAL- WATER	Borewell water	Temperature	IS:3025(part-9)
56	CHEMICAL- WATER	Borewell water	Total Acidity as CaCo3	IS:3025(part-22)
57	CHEMICAL- WATER	Borewell water	Total Alkalinity as CaCo3	IS:3025(part-23)
58	CHEMICAL- WATER	Borewell water	Total Dissolved solids	IS:3025(part-16)
59	CHEMICAL- WATER	Borewell water	Total Hardness as CaCo3	IS;3025(part-21)
60	CHEMICAL- WATER	Borewell water	Total solids	IS:3025(part-15)
61	CHEMICAL- WATER	Borewell water	Total suspended solids	IS:3025(part-17)
62	CHEMICAL- WATER	Borewell water	Turbidity	IS:3025(part-10)
63	CHEMICAL- WATER	construction water	chloride	IS:3025(part-32)
64	CHEMICAL- WATER	construction water	Inorganic solids	IS:3025(part-18)
65	CHEMICAL- WATER	construction water	Organic solids	IS:3025(part-18)
66	CHEMICAL- WATER	construction water	pH @ 25 degree	IS:3025(part-11)
67	CHEMICAL- WATER	construction water	Sulphate as So3	IS:3025(part-24)
68	CHEMICAL- WATER	construction water	Suspended solids	IS:3025(part-17)

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69	CHEMICAL- WATER	construction water	To neutralize 100 ml of sample should not require more than 25 ml of 0.02 normal H2So4 using mixed indicator	IS:3025(part-23)
70	CHEMICAL- WATER	construction water	To neutralize 100 ml sample of water sholud not require more than 5 ml of 0.02 normal NaoH using phenolphthalein as an indicator	IS:3025(part-22)
71	CHEMICAL- WATER	Drinking Water	Acidity as CaCo3	IS:3025(part-22)
72	CHEMICAL- WATER	Drinking Water	Boron as B	IS:3025(part-57)
73	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS:3025(part-40)
74	CHEMICAL- WATER	Drinking Water	Carbonates as Co3	IS:3025(part-51)
75	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS:3025(part-32)
76	CHEMICAL- WATER	Drinking Water	Chromium HExavalent as Cr+6	IS:3025(part-52)
77	CHEMICAL- WATER	Drinking Water	Colour	IS:3025(part-4)
78	CHEMICAL- WATER	Drinking Water	Conductivity @25°c	IS3025(part-14)
79	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS:3025(part-38)
80	CHEMICAL- WATER	Drinking Water	Fixed Dissloved solids	IS:3025(part-18)
81	CHEMICAL- WATER	Drinking Water	Iron as Fe	IS:3025(part-53)
82	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS;3025(part-46)
83	CHEMICAL- WATER	Drinking Water	Nitrate as No3-N	IS:3025(part-34)
84	CHEMICAL- WATER	Drinking Water	Nitrite Nitrogen	IS:3025(part-34)
85	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS:3025(part-39)
86	CHEMICAL- WATER	Drinking Water	pH @ 25°c	IS:3025(part-11)
87	CHEMICAL- WATER	Drinking Water	Phosphorous	IS:3025(part-31)
88	CHEMICAL- WATER	Drinking Water	Residual Sodium Carbonate	IS:11624
89	CHEMICAL- WATER	Drinking Water	Sodium Absorption Ratio	IS:11624
90	CHEMICAL- WATER	Drinking Water	Sulphate as So4	IS:3025(part-24)
91	CHEMICAL- WATER	Drinking Water	Temperature	IS:3025(part-9)
92	CHEMICAL- WATER	Drinking Water	Total Alkalinity ass CaCo3	IS:3025(part-23)
93	CHEMICAL- WATER	Drinking Water	Total Alkalintiy	IS:3025(part-23)
94	CHEMICAL- WATER	Drinking Water	Total Dissolved solids	IS:3025(part-16)

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95	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCo3	IS:3025(part-21)
96	CHEMICAL- WATER	Drinking Water	Total solids	IS:3025(part-15)
97	CHEMICAL- WATER	Drinking Water	Total suspended solids	IS:3025(part-17)
98	CHEMICAL- WATER	Drinking Water	Turbidity	IS:3025(part-10)
99	CHEMICAL- WATER	Ground water	Acidity as CaCo3	IS:3025(part-22)
100	CHEMICAL- WATER	Ground water	Boron as B	IS:3025(part-57)
101	CHEMICAL- WATER	Ground water	Calcium as Ca	Is:3025(part-40)
102	CHEMICAL- WATER	Ground water	Carbonate as Co3	IS:3025(part-51)
103	CHEMICAL- WATER	Ground water	Chloride as Cl	IS:3025(part-32)
104	CHEMICAL- WATER	Ground water	Chlorine Residual	IS:3025(part-26)
105	CHEMICAL- WATER	Ground water	Chromium Hexavalent as Cr+6	IS:30259part-52)
106	CHEMICAL- WATER	Ground water	Colour	IS:3025(part-4)
107	CHEMICAL- WATER	Ground water	Conductivity @ 25°c	IS:3025(part-14)
108	CHEMICAL- WATER	Ground water	Dissolved Oxygen	IS:3025(part-38)
109	CHEMICAL- WATER	Ground water	Iron as Fe	IS:3025(part-53)
110	CHEMICAL- WATER	Ground water	Magnesium as Mg	IS:3025(part-46)
111	CHEMICAL- WATER	Ground water	Nitrate as No3-N	IS:3025(part-34)
112	CHEMICAL- WATER	Ground water	Nitrite nitrogen as NO2	IS:3025(part-34)
113	CHEMICAL- WATER	Ground water	Oil and Grease	IS:3025(part-39)
114	CHEMICAL- WATER	Ground water	pH @ 25°c	IS:3025(part-11)
115	CHEMICAL- WATER	Ground water	Phosphorous	IS:3025(part-31)
116	CHEMICAL- WATER	Ground water	Residual sodium Carbonate	IS:11624
117	CHEMICAL- WATER	Ground water	Sodium Absorption Ratio	IS:11624
118	CHEMICAL- WATER	Ground water	Sulphate as So4	IS:3025(part-24)
119	CHEMICAL- WATER	Ground water	Sulphide	IS:3025(part-29)
120	CHEMICAL- WATER	Ground water	Temperature	IS:3025(part-9)
121	CHEMICAL- WATER	Ground water	Total Acidity	IS:3025(part-22)
122	CHEMICAL- WATER	Ground water	Total alkalinity	IS:3025(part-23)
123	CHEMICAL- WATER	Ground water	Total Alkalinity as CaCo3	IS:3025(part-23)
124	CHEMICAL- WATER	Ground water	Total Dissloved solids	IS:3025(part-16)

SCOPE OF ACCREDITATION

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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
125	CHEMICAL- WATER	Ground water	Total Hardness as CaCo3	IS:3025(part-23)
126	CHEMICAL- WATER	Ground water	Total Suspended solids	IS:3025(part-17)
127	CHEMICAL- WATER	Ground water	Turbidity	IS:3025(part-10)
128	CHEMICAL- WATER	Irrigation Water	Acidity as CaCo3	IS:3025(part-22)
129	CHEMICAL- WATER	Irrigation Water	Calcium as Ca	IS:3025(part-40)
130	CHEMICAL- WATER	Irrigation Water	Chloride as Cl	IS:3025(part-32)
131	CHEMICAL- WATER	Irrigation Water	Colour	IS:3025(part-4)
132	CHEMICAL- WATER	Irrigation Water	Conductivity @25°c	IS:3025(part-14)
133	CHEMICAL- WATER	Irrigation Water	Magnesium as Mg	IS:3025(part-46)
134	CHEMICAL- WATER	Irrigation Water	pH @ 25°c	IS:3025(part-11)
135	CHEMICAL- WATER	Irrigation Water	Potassium as K	IS:3025(part-45)
136	CHEMICAL- WATER	Irrigation Water	Sodium as Na	IS:3025(part-45)
137	CHEMICAL- WATER	Irrigation Water	Total Alkalinity as CaCo3	IS:3025(part-23)
138	CHEMICAL- WATER	Irrigation Water	Total Hardness as CaCo3	IS:3025(part-21)
139	CHEMICAL- WATER	Irrigation Water	Total Suspended solids	IS:3025(part-17)
140	CHEMICAL- WATER	Irrigation Water	Turbidity	IS:3025(part-10)
141	CHEMICAL- WATER	Surface water	% Sodium	IS:11624
142	CHEMICAL- WATER	Surface water	Boron as B	IS:3025(part-57)
143	CHEMICAL- WATER	Surface water	Calcium as Ca	IS:3025(part-40)
144	CHEMICAL- WATER	surface water	Carbonate as Co3	IS:3025(part-51)
145	CHEMICAL- WATER	Surface water	Chloride as Cl	IS:3025(part-32)
146	CHEMICAL- WATER	Surface water	Chromium Hexavalent as Cr+	IS:3025(part-52)
147	CHEMICAL- WATER	Surface water	Colour	IS:3025(part-4)
148	CHEMICAL- WATER	Surface water	Conductivity @ 25°c	IS:3025(part-14)
149	CHEMICAL- WATER	Surface water	Dissolved Oxygen	IS:3025(part-38)
150	CHEMICAL- WATER	Surface water	Iron as Fe	IS:3025(part-53)
151	CHEMICAL- WATER	Surface water	Magnesium as Mg	IS:3025(part-46)
152	CHEMICAL- WATER	Surface water	Nitrate as No3-N	IS:3025(part-34)
153	CHEMICAL- WATER	Surface water	Nitrite Nitrogen as No2-N	IS:3025(part-34)
154	CHEMICAL- WATER	Surface water	Oil and Grease	IS:3025(part-39)

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Laboratory Name :	KEMSTER ANALYTICAL SOLUTIONS, PLOT NO:69/4,6TH MAIN, 3RD PHASE,, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
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155	CHEMICAL- WATER	Surface water	pH@ 25°c	IS:3025(part-11)
156	CHEMICAL- WATER	Surface water	Phosphorous	IS:3025(part-31)
157	CHEMICAL- WATER	Surface water	Residual Sodium Carbonate	IS:11624
158	CHEMICAL- WATER	Surface water	Sodium Absorption ratio	IS:11624
159	CHEMICAL- WATER	Surface water	sulphate as So4	IS:3025(part-24)
160	CHEMICAL- WATER	Surface water	Temperature	IS:3025(part-9)
161	CHEMICAL- WATER	Surface water	Total Acidity as CaCo3	IS:3025(part-22)
162	CHEMICAL- WATER	Surface water	Total Alkalinity as CaCo3	IS:3025(part-23)
163	CHEMICAL- WATER	Surface water	Total Dissolved solids	IS:3025(part-16)
164	CHEMICAL- WATER	Surface water	Total Hardness as CaCo3	IS:3025(part-21)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient noise	Noise level (Excluding vibrations)-Lmax,Lmin,Leq	IS:9989
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Source Noise Level (Specific Noise)	IS:9989