National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHRI KRISHNA AQUA ENGINEERING WORKS, LABORATORY, H.NO. 3 & 4, LIMBUWALA BUILDING, PRAGATHI COLONY, 1ST CROSS, HUBLI, DHARWAD, KARNATAKA, 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
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia as NH3	SKAEW / SOP / 10
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead as Pb	SKAEW / SOP / 13
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel as Ni	SKAEW / SOP / 15
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen as NO2	IS 5182 (Part - 6)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter (Particle size less than 10 microns) (PM10)	IS: 5182 (Part - 23)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate matter (Particle size less than 2.5 microns) (PM2.5)	IS 5182 (Part 24)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide as SO2	IS 5182 (Part - 2)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Suspended Particulate Matter (SPM)	IS 5182 (Part - 4)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Noise Level (Excluding Vibrations)-Lmax, Lmin, Leq	IS: 9989
10	CHEMICAL- ATMOSPHERIC POLLUTION	Light Illumination	Illumination-Light intensity	SKAEW/IP/016
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Acid Mist	EPA Method Part-8, CARB
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide as CO2	IS: 13270
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide as CO	IS: 13270
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Flow Discharge Rate	IS 11255(Part-3)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen as NOx	IS 11255 (Part -7)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen as O2	IS: 13270
17	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS: 11255 (Part - 1)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Stack Temperature	IS: 11255 (Part - 3)

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19	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Stack Velocity	IS: 11255 (Part - 3)
20	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide as SO2	IS: 11255 (Part - 2)
21	CHEMICAL- FERTILIZERS	Bio-Fertilizer	pH (1:2) dilution	SKAEW/BF /SOP / 05
22	CHEMICAL- FERTILIZERS	Fertilizers	Conductivity (1:5) Dilution	SKAEW/BF /SOP/06
23	CHEMICAL- FERTILIZERS	Fertilizers	Potassium as K	SKAEW/BF /SOP / 08
24	CHEMICAL- FERTILIZERS	Fertilizers	Total Nitrogen as N	SKAEW/BF/ SOP / 10
25	CHEMICAL- FERTILIZERS	Fertilizers	Total Organic Carbon	SKAEW/BF / SOP / 07
26	CHEMICAL- FERTILIZERS	Fertilizers	Total Phosphorous as P	SKAEW/BF / SOP / 09
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Toxicity	Bio assay	IS: 6582
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium as Ca	SKAEW / SOP / 01
29	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Magnesium as Mg	SKAEW / SOP / 02
30	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Potassium as K	SKAEW / SOP / 05
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen	SKAEW / SOP / 03
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Dissolved Phosphorous as P	SKAEW / SOP / 04
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity @ 25 degree	IS: 14767: 2000 RA
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture content	IS2720(part II)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic carbon	SKAEW / SOP / 06
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic matter	SKAEW / SOP / 07
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH @ 25 degree	IS: 2720 (Part - 26)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sodium as Na	APHA(23rd Edition) 3111B, IS 3025(Part 65)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen as NH3	APHA 4500 C Titrimetric method

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40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand, BOD (3 days)	IS: 3025 (Part - 44) Wrinklers method
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand, BOD (5 days)	APHA 23rd Edition 5210 B,Wrinkler method
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Cadmium as Cd	IS3025,part41,AAS method
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand COD	APHA 5220B, Open reflux method
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride as Cl	APHA 4500 Cl B, Argentometric method
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chlorine Residual	APHA Cl2,4500B, Iodometric method
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Copper as Cu	IS3025,Part 42
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Electrical Conductivity @ 25 degree	IS: 3025 (Part - 14)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Iron as Fe	IS Part 53 , 1,10 phenanthroline method
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Manganese as Mn	IS 3025(Part 59)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Mixed Liquor Suspended Solids	SKAEW / SOP / 20
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nickel as Ni	IS 3025(Part 54)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil & Grease	IS: 3025 (Part - 39)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oxygen absorbed in 4 hrs	IS: 3025 (Part - 63)
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH @ 25 degree C	IS: 3025 (Part - II)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sludge Volume Index, SVI	APHA 23rd Edition 2710 - D
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	APHA 2540D , Gravimetric method
57	CHEMICAL- POLLUTION & ENVIRONMENT	waste Water	Turbidity	IS: 3025 (Part - 10)
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Zinc as Zn	IS 3025(Part 49)

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59	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	% Sodium	IS: 11624
60	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Boron as B	APHA 23rd Edition 4500-B, B Curcumin method
61	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Hexavalent Chromium	APHA 23rd Edition 3500-Cr, B Colorimetric method
62	CHEMICAL- POLLUTION & ENVIRONMENT	wastewater	odour	IS 3025(Part 5)
63	CHEMICAL- POLLUTION & ENVIRONMENT	wastewater	Residual Sodium Carbonate as RSC	IS 11624
64	CHEMICAL- POLLUTION & ENVIRONMENT	wastewater	Total Dissolved Solids As TDS	IS: 3025 (Part - 16)
65	CHEMICAL- POLLUTION & ENVIRONMENT	wastewater	Total Kjeldhal Nitrogen as TKN	APHA 23rd Edition- 4500-N org,C
66	CHEMICAL- RESIDUES IN WATER	Drinking water	Cadmium as Cd.	IS 3025, Part-41, AAS
67	CHEMICAL- RESIDUES IN WATER	Drinking water	Chromium Hexavalent as Cr+6	APHA 23rd Edition 3500-Cr, B
68	CHEMICAL- RESIDUES IN WATER	Drinking water	Copper as Cu	IS 3025 Part-42
69	CHEMICAL- RESIDUES IN WATER	Drinking water	Iron as Fe	IS: 3025 (Part - 53)
70	CHEMICAL- RESIDUES IN WATER	Drinking water	Lead as Pb	IS 3025(Part 47)
71	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese as Mn	IS 3025(Part 59)
72	CHEMICAL- RESIDUES IN WATER	Drinking water	Nickel as Ni	IS 3025(Part 54)
73	CHEMICAL- RESIDUES IN WATER	Drinking water	Total Chromium	IS 3025, part 52
74	CHEMICAL- RESIDUES IN WATER	Drinking water	Zinc as Zn	IS 3025(Part 49)
75	CHEMICAL- RESIDUES IN WATER	Ground water	Cadmium as Cd	IS 3025(Part 41)
76	CHEMICAL- RESIDUES IN WATER	Ground water	Chromium Hexavalent as Cr+6	APHA 23rd Edition 3500 B, Cr
77	CHEMICAL- RESIDUES IN WATER	Ground water	Copper as Cu	IS 3025(Part 42)

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78	CHEMICAL- RESIDUES IN WATER	Ground water	Iron as Fe	IS: 3025 (Part - 53)
79	CHEMICAL- RESIDUES IN WATER	Ground water	Lead as Pb	IS 3025(Part 47)
80	CHEMICAL- RESIDUES IN WATER	Ground water	Manganese as Mn	APHA(23rd Ed IS 3025(Part 65):
81	CHEMICAL- RESIDUES IN WATER	Ground water	Sodium as Na	APHA 23rd Edition 4500, SO4, 2E
82	CHEMICAL- RESIDUES IN WATER	Ground Water	Total Chromium	IS 3025(Part 52)
83	CHEMICAL- RESIDUES IN WATER	Ground water	Zinc as Zn	IS 3025(Part 49)
84	CHEMICAL- RESIDUES IN WATER	Groundwater	Potassium as K	IS: 3025 (Part - 45)
85	CHEMICAL- RESIDUES IN WATER	Irrigation Water	Cadmium as Cd	IS 3025(Part 41)
86	CHEMICAL- RESIDUES IN WATER	Irrigation water	Copper as Cu	IS 3025(Part 42)
87	CHEMICAL- RESIDUES IN WATER	Irrigation water	Iron as Fe	IS: 3025 (Part - 53)
88	CHEMICAL- RESIDUES IN WATER	Irrigation water	Lead as Pb	IS 3025(Part 47)
89	CHEMICAL- RESIDUES IN WATER	Irrigation Water	Manganese as Mn	IS 3025(Part 59)
90	CHEMICAL- RESIDUES IN WATER	Irrigation Water	Nickel as Ni	IS 3025(Part 54)
91	CHEMICAL- RESIDUES IN WATER	Irrigation Water	Zinc as Zn	IS 3025(Part 49)
92	CHEMICAL- RESIDUES IN WATER	Surface Water	Cadmium as Cd	IS 3025(Part 41)
93	CHEMICAL- RESIDUES IN WATER	Surface Water	Chromium Hexavalent as Cr+6	APHA 23rd edition 3500- Cr, B
94	CHEMICAL- RESIDUES IN WATER	Surface Water	Copper as Cu	IS 3025(Part 42)
95	CHEMICAL- RESIDUES IN WATER	Surface Water	Iron as Fe	IS: 3025 (Part - 53)
96	CHEMICAL- RESIDUES IN WATER	Surface Water	Lead as Pb	IS 3025(Part 47)

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97	CHEMICAL- RESIDUES IN WATER	Surface Water	Manganese as Mn	IS 3025(Part 59)
98	CHEMICAL- RESIDUES IN WATER	Surface Water	Nickel as Ni	IS 3025(Part 54)
99	CHEMICAL- RESIDUES IN WATER	Surface Water	Total Chromium as Cr	IS 3025(Part 52)
100	CHEMICAL- RESIDUES IN WATER	Surface Water	Zinc as Zn	IS 3025(Part 49)
101	CHEMICAL- WATER	Construction water	Chloride as Cl	IS: 3025 (Part - 32) : Argentometric method
102	CHEMICAL- WATER	Construction water	Inorganic Solids	IS: 3025 (Part - 18)
103	CHEMICAL- WATER	Construction Water	Organic Solids	IS: 3025 (Part - 18) : Gravimetric method
104	CHEMICAL- WATER	Construction water	pH @ 25 degree	IS: 3025 (Part - 11)
105	CHEMICAL- WATER	Construction water	Suspended Solids	IS: 3025 (Part - 17)
106	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)
107	CHEMICAL- WATER	Construction water	To neutralize 100 ml sample of water should not require more than 5 ml of 0.02 normal NaOH using phenolphthalein as an indicator	IS: 3025 (Part - 22)
108	CHEMICAL- WATER	Distilled Water	Colour retention of KMnO4, at 27 x 20C Minutes	IS1070
109	CHEMICAL- WATER	Distilled Water	Conductivity @ 25 Degree C	IS: 3025 (Part - 14)
110	CHEMICAL- WATER	Distilled Water	pH @ 25 Degree C	IS: 3025 (Part - 11)
111	CHEMICAL- WATER	Distilled water	Total Dissolved Solids	IS: 3025 (Part - 16)
112	CHEMICAL- WATER	Distilled Water	Total Solids	IS: 3025 (Part - 15)
113	CHEMICAL- WATER	Distilled water	Total Suspended Solids	IS: 3025 (Part - 17)
114	CHEMICAL- WATER	Drinking Water	Acidity as CaCO3	IS: 3025 (Part - 22) : Titrimetric method
115	CHEMICAL- WATER	Drinking Water	Bicarbonate as HCO3	IS: 3025 (Part - 51)
116	CHEMICAL- WATER	Drinking Water	Boron as B	APHA 23rd Edition 4500-B, B Curcumin method

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117	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS: 3025 (Part - 40) : EDTA Titrimetric method
118	CHEMICAL- WATER	Drinking Water	Carbonates as CO3	IS: 3025 (Part - 51)
119	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS: 3025 (Part - 32) : Argentometric method
120	CHEMICAL- WATER	Drinking Water	Chlorine Residual as Cl2	IS: 3025 (Part - 26) Iodometric method
121	CHEMICAL- WATER	Drinking Water	Cobalt as Co	APHA 23rd Edition 3500 - AAS method Co
122	CHEMICAL- WATER	Drinking Water	Conductivity @ 25 degree C	IS: 3025 (Part - 14)
123	CHEMICAL- WATER	Drinking Water	Fluoride as F	APHA 23rd Edition 4500-F-B, D
124	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edition 3500- Mg, B
125	CHEMICAL- WATER	Drinking Water	Nitrate as NO3 – N	APHA 23rd Edition 4500 - NO3, E
126	CHEMICAL- WATER	Drinking Water	Nitrite as NO2	APHA 23rd edition 4500 as NO2 B
127	CHEMICAL- WATER	Drinking Water	odour	IS 3025(Part 5)
128	CHEMICAL- WATER	Drinking Water	pH @ 25 degree C	IS: 3025 (Part - II)
129	CHEMICAL- WATER	Drinking Water	Phenolic Compounds	IS: 3025 (Part - 43)
130	CHEMICAL- WATER	Drinking Water	Phosphorous as P	APHA 23rd Edition 4500 - P , D
131	CHEMICAL- WATER	Drinking Water	Potassium as K	IS 3025(Part 45)
132	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	IS: 3025 (Part - 24) :Turbidity method
133	CHEMICAL- WATER	Drinking Water	Sulphide as H2S	IS: 3025 (Part - 29) : Iodometric methods
134	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS: 3025 (Part - 23)
135	CHEMICAL- WATER	Drinking Water	Total Dissloved Solids	IS 3025 (Part 16)
136	CHEMICAL- WATER	Drinking Water	Total Solids	APHA 23rd Edition 2540 B
137	CHEMICAL- WATER	Drinking Water	Total Suspended Solids as TSS	IS: 3025 (Part - 16) :
138	CHEMICAL- WATER	Drinking Water	Turbidity	IS: 3025 (Part - 10)
139	CHEMICAL- WATER	Ground water	% Sodium	IS: 11624
140	CHEMICAL- WATER	Ground Water	Bicarbonate as HCO3	IS: 3025 (Part - 51)
141	CHEMICAL- WATER	Ground Water	Boron as B	APHA 23rd Edition 4500, B
142	CHEMICAL- WATER	Ground water	Calcium as Ca	IS: 3025 (Part - 40)

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143	CHEMICAL- WATER	Ground water	Carbonate as CO3	IS: 3025 (Part - 51)
144	CHEMICAL- WATER	Ground water	Chloride as Cl	IS: 3025 (Part - 32) : Argentometric method
145	CHEMICAL- WATER	Ground water	Conductivity @ 25 degree celsius	IS: 3025 (Part - 14)
146	CHEMICAL- WATER	Ground water	Dissolved Oxygen	IS: 3025 (Part - 38)
147	CHEMICAL- WATER	Ground Water	Fixed Dissolved Solids	IS: 3025 (Part - 18)
148	CHEMICAL- WATER	Ground water	Fluoride as F	APHA 23rd Edition 4500, F
149	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edition 3500-Mg, B
150	CHEMICAL- WATER	Ground water	Nickle as Ni	IS 3025 (part 54)
151	CHEMICAL- WATER	Ground water	Nitrate as NO3 – N	APHA 23rd Edition 4500-NO3, E
152	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen as NO2	APHA 23rd Edition 4500, NO2 B
153	CHEMICAL- WATER	Ground water	Odour	IS 3025(Part 5)
154	CHEMICAL- WATER	Ground water	pH @ 25 degree	IS: 3025 (Part - 11)
155	CHEMICAL- WATER	Ground Water	Phenolic Compounds	IS: 3025 (Part - 43)
156	CHEMICAL- WATER	Ground water	Phosphorous	APHA 23rd Edition 4500-P, D
157	CHEMICAL- WATER	Ground water	Residual Sodium Carbonate as RSC	IS 11624
158	CHEMICAL- WATER	Ground water	Sodium Absorption Ratio as SAR	IS: 11624
159	CHEMICAL- WATER	Ground Water	Sulphate as SO4	APHA 23rd Edition 4500, SO4, 2E
160	CHEMICAL- WATER	Ground Water	Sulphide as H2S	IS: 3025 (Part - 29)
161	CHEMICAL- WATER	Ground Water	Temperature	IS: 3025 (Part - 9)
162	CHEMICAL- WATER	Ground water	Total Alkalinity as CaCO3	IS :3025(Part-23)
163	CHEMICAL- WATER	Ground water	Total Dissolved Solids	IS : 3025 (Part – 16)
164	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	IS : 3025 (Part - 21)
165	CHEMICAL- WATER	Ground water	Total Solids	APHA 23rd edition 2540 B
166	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS: 3025 (Part - 16)
167	CHEMICAL- WATER	Ground water	Turbidity	IS: 3025 (Part - 10)
168	CHEMICAL- WATER	Ground water	Volatile Solids	IS: 3025 (Part - 18)
169	CHEMICAL- WATER	Irrigation Water	% Sodium	IS: 11624

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170	CHEMICAL- WATER	Irrigation water	Acidity as CaCO3	IS: 3025 (Part - 22)
171	CHEMICAL- WATER	Irrigation Water	Boron as B	APHA 23rd Edition 4500- B
172	CHEMICAL- WATER	Irrigation Water	Calcium as Ca	IS: 3025 (Part - 40)
173	CHEMICAL- WATER	Irrigation water	Chloride as Cl	IS: 3025 (Part - 32) : Argentometric method
174	CHEMICAL- WATER	Irrigation water	Conductivity @ 25 degree C	IS: 3025 (Part - 14)
175	CHEMICAL- WATER	Irrigation Water	Dissolved Oxygen	IS: 3025 (Part - 38)
176	CHEMICAL- WATER	Irrigation Water	Fixed Dissolved Solids	IS: 3025 (Part - 18)
177	CHEMICAL- WATER	Irrigation Water	Fluoride as F	APHA 23rd Edition 4500- F , B, D
178	CHEMICAL- WATER	Irrigation Water	Magnesium as Mg	IS: 3025 (Part - 46)
179	CHEMICAL- WATER	Irrigation Water	Nitrate as NO3	APHA 23rd Edition 4500 – NO3, E
180	CHEMICAL- WATER	Irrigation Water	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
181	CHEMICAL- WATER	Irrigation Water	odour	IS 3025(Part 5)
182	CHEMICAL- WATER	Irrigation Water	Oil & grease	IS: 3025 (Part - 39)
183	CHEMICAL- WATER	Irrigation water	pH @ 25 degree C	IS: 3025 (Part - 11)
184	CHEMICAL- WATER	Irrigation Water	Phenolic compounds as C6H5OH	IS3025 part 43
185	CHEMICAL- WATER	Irrigation Water	Phosphorous as P	APHA 23rd Edition 4500 - P , D
186	CHEMICAL- WATER	Irrigation Water	Potassium as K	IS: 3025 (Part - 45)
187	CHEMICAL- WATER	Irrigation Water	Residual Sodium carbonate	IS: 11624
188	CHEMICAL- WATER	Irrigation Water	Residual Sodium Carbonate as RSC	IS : 11624
189	CHEMICAL- WATER	Irrigation Water	Sodium Absorption Ratio	IS: 11624
190	CHEMICAL- WATER	Irrigation Water	Sodium as Na	IS: 3025 (Part - 45)
191	CHEMICAL- WATER	Irrigation Water	Sulphate as SO4	APHA 23rd Edition 4500, SO4 , E
192	CHEMICAL- WATER	Irrigation Water	Temperature	IS: 3025 (Part - 9)
193	CHEMICAL- WATER	Irrigation water	Total Alkalinity as CaCO3	IS: 3025 (Part - 23)
194	CHEMICAL- WATER	Irrigation Water	Total Chromium as T.Cr	IS 3025(Part 52)
195	CHEMICAL- WATER	Irrigation Water	Total Dissolved solids	IS: 3025 (Part - 16)
196	CHEMICAL- WATER	Irrigation water	Total Hardness as CaCO3	IS : 3025 (Part - 21)

SCOPE OF ACCREDITATION

Laboratory Name : SHRI KRISHNA AQUA ENGINEERING WORKS, LABORATORY, H.NO. 3 & 4, LIMBUWALA BUILDING, PRAGATHI COLONY, 1ST CROSS, HUBLI, DHARWAD, KARNATAKA, 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
197	CHEMICAL- WATER	Irrigation Water	Total Solids	APHA 23rd edition 2540, B
198	CHEMICAL- WATER	irrigation water	Total Suspended Solids	IS: 3025 (Part - 17)
199	CHEMICAL- WATER	Irrigation water	Turbidity	IS: 3025 (Part - 10)
200	CHEMICAL- WATER	Irrigation Water	Volatile solids	IS 3025 Part 18
201	CHEMICAL- WATER	Surface water	Total Alkalinity as CaCO3	IS :3025(Part-23)
202	CHEMICAL- WATER	Surface Water	% Sodium	IS: 11624
203	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen as NH3- N	APHA 23rd Edition 4500- NH3, B, C
204	CHEMICAL- WATER	Surface Water	Bicarbonate as HCO3	IS: 3025 (Part - 51)
205	CHEMICAL- WATER	Surface Water	BOD 3 days	IS: 3025 (Part - 44)
206	CHEMICAL- WATER	Surface Water	Boron as B	APHA 23rd Edition 4500- B
207	CHEMICAL- WATER	Surface Water	Carbonate as CO3	IS: 3025 (Part - 51)
208	CHEMICAL- WATER	Surface water	Chloride as Cl	IS: 3025 (Part - 32)
209	CHEMICAL- WATER	Surface Water	Chlorine residual	IS: 3025 (Part - 26)
210	CHEMICAL- WATER	Surface water	COD	APHA 5220B :
211	CHEMICAL- WATER	Surface water	Conductivity @ 25 deg C	IS: 3025 (Part - 14)
212	CHEMICAL- WATER	Surface water	Dissolved Oxygen	IS: 3025 (Part - 38)
213	CHEMICAL- WATER	Surface Water	Fixed Dissolved Solids	IS: 3025 (Part - 18)
214	CHEMICAL- WATER	Surface water	Fluoride as F	APHA 23rd Edition 4500 - F,D :
215	CHEMICAL- WATER	Surface water	Magnesium as Mg	APHA 23rd Edition 3500- Mg, B
216	CHEMICAL- WATER	Surface Water	Nitrate as NO3- N	APHA 23rd Edition 4500- NO3, E
217	CHEMICAL- WATER	Surface Water	Nitrite Nitrogen as NO2- N	APHA 23rd Edition 4500- NO2, B
218	CHEMICAL- WATER	surface water	odour	IS 3025(Part 5)
219	CHEMICAL- WATER	Surface Water	Oil & Grease	IS: 3025 (Part - 39)
220	CHEMICAL- WATER	Surface water	pH @ 25 0 C	IS: 3025 (Part - 11)
221	CHEMICAL- WATER	surface water	Phenolic Compounds	IS: 3025 (Part - 43)
222	CHEMICAL- WATER	Surface water	Phosphorous	APHA 23rd Edition 4500- P
223	CHEMICAL- WATER	Surface Water	Potassium as K	IS: 3025 (Part - 45)
224	CHEMICAL- WATER	Surface water	Residual Sodium Carbonate	IS: 11624
225	CHEMICAL- WATER	surface water	Sodium Absorption ratio	IS: 11624

SCOPE OF ACCREDITATION

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226	CHEMICAL- WATER	Surface water	Sodium as Na	IS: 3025 (Part - 45)
227	CHEMICAL- WATER	surface water	Sulphate as SO4	APHA 23rd Edition 4500- SO4, E
228	CHEMICAL- WATER	Surface water	Sulphide	IS: 3025 (Part- 29)
229	CHEMICAL- WATER	Surface Water	Temperature	IS: 3025 (Part - 9)
230	CHEMICAL- WATER	Surface water	Total Acidity as CaCO3	IS: 3025 (Part - 22)
231	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS: 3025 (Part - 16)
232	CHEMICAL- WATER	Surface water	Total Hardness as CaCO3	IS: 3025 (Part - 21)
233	CHEMICAL- WATER	Surface water	Total Kjeldhal Nitrogen	APHA 23rd Edition - 4500-N org,nC
234	CHEMICAL- WATER	Surface water	Total Solids	APHA 23rd edition 2540, B :
235	CHEMICAL- WATER	Surface water	Total Suspended Solids	APHA 23rd Edition 2540, D
236	CHEMICAL- WATER	Surface Water	Turbidity	IS: 3025 (Part - 10)
237	CHEMICAL- WATER	Surface water	Volatile Solids	IS: 3025 (Part - 18)
238	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compression Strength	IS: 3495 (Part - 1)
239	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk density (Compacted)	IS: 2386 (Part - 3) Cl. 3.0
240	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density (Loose)	IS: 2386 (Part - 3) Cl. 3.0
241	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS: 2386 (Part - 4) Cl. 2.0
242	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS: 2386 (Part - 1) Cl. 5.0
243	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS: 2386 (Part - 1) Cl. 4.0
244	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS: 2386 (Part - 4) Cl. 4.0
245	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (4.75 to 40 mm)	IS: 2386 (Part - 1) Cl. 2.0
246	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS: 2386 (Part - 3) Cl. 2.0
247	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS: 2386 (Part - 3) Cl. 2.0
248	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS: 516 (Part - 4)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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249	MECHANICAL- BUILDINGS MATERIALS	Concrete Cubes	Compression Strength	IS 516
250	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Bulk Density (Loose)	IS: 2386 (Part - 3) Cl. 3.0
251	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk density (Compacted)	IS: 2386 (Part - 3) Cl. 3.0
252	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Material finer than 75 microns	IS: 2386 (Part - 1) Cl. 3.0
253	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (0.075 to 10 mm)	IS: 2386 (Part - 1) Cl. 2.0
254	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS: 2386 (Part - 3) Cl. 2.0
255	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS: 2386 (Part - 3) Cl. 2.0
256	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Blocks	Compression Strength	IS: 2185 (Part - 1) Annex D
257	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
258	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS: 2720 (Part - 40)
259	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS: 2720 (Part - 4) Cl. 4.3.1
260	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS: 2720 (Part - 8)
261	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS: 2720 (Part - 8)
262	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS: 2720 (Part - 7)
263	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS: 2720 (Part - 7)
264	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS: 2720 (Part - 5) Cl. 3.0
265	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS: 2720 (Part - 5) Cl. 7.0
266	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS: 2720 (Part - 2)