National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : COSMO CONSCIOUS RESEARCH LABORATORY, 121, SURVEY HOUSE, 2ND CROSS , NEHRU COLONY, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 1 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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	Nitrogen Dioxide	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size Less than 10 micro meter) or PM10.	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size than 2.5 micro meter) or PM2.5	USEPA Vol-II & Part II.
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur dioxide as SO2	IS 5182 (Part 2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon dioxide	CCRL/TOP/06,Issue No:1, 01.02.2016
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen	CCRL/TOP/06, Issue No: 01, 01.02.2016
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Sulphur	CCRL/TOP/06, Issue No:1, 01.02.2016
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen	CCRL/TOP/06, Issue No:1, 01.02.2016
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate matter	IS 11255 (Part -1) (Gravimetric Method)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Chloride as Cl	CCRL/TOP/03, Issue No:01, 01.02.2016
11	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Electrical Conductivity	IS 14767
12	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Iron as Fe	CCRL/TOP/04, Issue No:01, 01.02.2016
13	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Organic Carbon	IS 2720 (Part 22)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	pH	IS 2720 (Part 26)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Phosphorous as P	CCRL/TOP/01, Issue No:01, 01.02.2016
16	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Potassium as K	CCRL/TOP/02, Issue No:01, 01.02.2016
17	CHEMICAL- POLLUTION & ENVIRONMENT	Soil Physical/Chemical	Water Holding Capacity	CCRL/TOP/05, Issue No:01, 01.02.2016
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)

SCOPE OF ACCREDITATION

Laboratory Name : COSMO CONSCIOUS RESEARCH LABORATORY, 121, SURVEY HOUSE, 2ND CROSS , NEHRU COLONY, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 2 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents / Sewage)	pH	IS 3025: (Part 11) (Electrometric Method)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity as CaCO3	IS 3025 (Part 22) (Indicator Method)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity as CaCO3	IS 3025 (Part 23) (Indicator Method)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Aluminium as Al	APHA 23rd edition (AAS Method)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bio-chemical Oxygen Demand (BOD 3 days @ 27 degree Celsius)	IS 3025 (Part 44) (Titrimetric method)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as Ca	IS 3025 (Part 40) (Titrimetric Method)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen demand (COD)	APHA 23rd Edition (Closed Reflux Method)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium as Cr	APHA 23rd Edition (AAS method)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color	IS 3025 (Part 4) (Platinum Cobalt Method)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper as Cu	APHA 23rd Edition (AAS method)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38) (Titrimetric Method)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride as F	APHA 23rd Edition (Spadns method)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Lead as Pb	APHA 23rd Edition (AAS method)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as Mg	APHA 23rd Edition (Calculation method)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese as Mn	APHA 23rd Edition (AAS method)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel as Ni	APHA 23rd Edition (AAS method)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate as NO3	IS 3025 (Part 34) (Chromotropic acid Method)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil and Grease	IS 3025 (Part 39) (Partition Gravimetric Method)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 3 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate as PO4	IS 3025 (Part 31) (Stannous chloride) Method
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium as K	IS 3025 (Part 45) Flame emission photometric method)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silver as Ag	APHA 23rd Edition (AAS method)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium as Na	IS 3025 (Part 45) (Flame emission photometric method)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulfate as SO4	APHA 23rd edition (Turbidimetric method)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	IS 3025 (Part 9) (Temperature probe
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO3	IS 3025 (Part 21) (EDTA Titrimetric Method)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Iron as Fe	APHA 23rd Edition (AAS method)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total suspended Solids	IS 3025 (Part 17) (Gravimetric method)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (effluents/Sewage)	Turbidity	IS 3025 (Part 10) (Nephelometric method)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc as Zn	APHA 23rd (AAS method)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent /Sewage)	Total Dissolved Solids	IS 3025 (Part 16) (Gravimetric method)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	IS 3025 (Part 14) (Electrometric method)
50	CHEMICAL- RESIDUES IN WATER	Drinking Water	Aluminum	APHA 23rd Edition (AAS Method): 3111D 2017
51	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	APHA 23rd Edition 3111B(AAS method): 2017
52	CHEMICAL- RESIDUES IN WATER	Drinking Water	Lead	APHA 23rd Edition 3111B(AAS method): 2017
53	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese	APHA 23rd Edition 3111B(AAS method): 2017
54	CHEMICAL- RESIDUES IN WATER	Drinking Water	Nickel	APHA 23rd Edition 3111B(AAS method): 2017
55	CHEMICAL- RESIDUES IN WATER	Drinking Water	Silver	APHA 23rd Edition 3111B(AAS method): 2017

SCOPE OF ACCREDITATION

Laboratory Name : COSMO CONSCIOUS RESEARCH LABORATORY, 121, SURVEY HOUSE, 2ND CROSS , NEHRU COLONY, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 4 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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
56	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium	APHA 23rd Edition 3111B(AAS Method): 2017
57	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Iron	APHA 23rd Edition 3111B(AAS method): 2017
58	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc	APHA 23rd Edition 3111B(AAS method): 2017
59	CHEMICAL- RESIDUES IN WATER	Ground Water	Aluminum	APHA 23rd Edition 3111D(AAS method): 2017
60	CHEMICAL- RESIDUES IN WATER	Ground Water	Copper	APHA 23rd Edition 3111B(AAS method): 2017
61	CHEMICAL- RESIDUES IN WATER	Ground Water	Lead	APHA 23rd Edition 3111B(AAS method): 2017
62	CHEMICAL- RESIDUES IN WATER	Ground Water	Manganese	APHA 23rd Edition 3111B(AAS method): 2017
63	CHEMICAL- RESIDUES IN WATER	Ground Water	Nickel	APHA 23rd Edition 3111B(AAS method): 2017
64	CHEMICAL- RESIDUES IN WATER	Ground Water	Silver	APHA 23rd Edition 3111B(AAS method): 2017
65	CHEMICAL- RESIDUES IN WATER	Ground Water	Total Chromium	APHA 23rd Edition 3111B(AAS method): 2017
66	CHEMICAL- RESIDUES IN WATER	Ground Water	Total Iron	APHA 23rd Edition 3111B(AAS method): 2017
67	CHEMICAL- RESIDUES IN WATER	Ground water	Zinc	APHA 23rd Edition 3111B(AAS method): 2017
68	CHEMICAL- RESIDUES IN WATER	Surface Water	Aluminum	APHA 23rd Edition 3111D (AAS Method): 2017: 2017
69	CHEMICAL- RESIDUES IN WATER	Surface Water	Copper	APHA 23rd Edition 3111B(AAS method): 2017
70	CHEMICAL- RESIDUES IN WATER	Surface Water	Lead	APHA 23rd Edition 3111B(AAS method): 2017
71	CHEMICAL- RESIDUES IN WATER	Surface Water	Manganese	APHA 23rd Edition 3111B(AAS method): 2017
72	CHEMICAL- RESIDUES IN WATER	Surface Water	Nickel	APHA 23rd Edition 3111B(AAS method): 2017
73	CHEMICAL- RESIDUES IN WATER	Surface Water	Silver	APHA 23rd Edition 3111B(AAS method): 2017
74	CHEMICAL- RESIDUES IN WATER	Surface Water	Total Chromium	APHA 23rd Edition 3111B(AAS method): 2017

SCOPE OF ACCREDITATION

Laboratory Name : COSMO CONSCIOUS RESEARCH LABORATORY, 121, SURVEY HOUSE, 2ND CROSS , NEHRU COLONY, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 5 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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75	CHEMICAL- RESIDUES IN WATER	Surface Water	Total Iron	APHA 23rd Edition 3111B(AAS method): 2017
76	CHEMICAL- RESIDUES IN WATER	Surface Water	Zinc	APHA 23rd Edition 3111B(AAS method): 2017
77	CHEMICAL- WATER	Drinking Water	Acidity as CaCO3	IS 3025 (Part 22) (Indicator method)
78	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	IS 3025 (Part 23) (Indicator method)
79	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40) (Titrimetric Method):
80	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)
81	CHEMICAL- WATER	Drinking Water	Color	IS 3025 (Part 4) (Platinum Cobalt Method)
82	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025 (Part 14) (Electrometric method)
83	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38) (Titrimetric Method))
84	CHEMICAL- WATER	Drinking Water	Fluoride as F	APHA 23rd Edition (Spadns method)
85	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edition (Calculation method)
86	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	IS 3025 (Part 34) (Chromotropic acid Method)
87	CHEMICAL- WATER	Drinking Water	Oil and Grease	IS 3025 (Part 39) (Partition Gravimetric Method)
88	CHEMICAL- WATER	Drinking Water	pH	IS 3025: (Part 11) (Electrometric Method)
89	CHEMICAL- WATER	Drinking Water	Phosphorus as P04	IS 3025 (Part 31) (Stannous chloride) Method
90	CHEMICAL- WATER	Drinking Water	Potassium as K	IS 3025 (Part 45) Flame emission photometric method)
91	CHEMICAL- WATER	Drinking Water	Sodium as Na	IS 3025 (Part 45) (Flame emission photometric method)
92	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	APHA 23rd edition (Turbidimetric method)
93	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part 9) (Temperature probe

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 6 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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94	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16) (Gravimetric method)
95	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 (Part 21) (EDTA Titrimetric Method)
96	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17) (Gravimetric method)
97	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10) (Nephelometric method)
98	CHEMICAL- WATER	Ground Water	Acidity as CaCO3	IS 3025 (Part 22) (Indicator method)
99	CHEMICAL- WATER	Ground Water	Alkalinity as CaCO3	IS 3025 (Part 23) (Indicator method):
100	CHEMICAL- WATER	Ground Water	Calcium as Ca	IS 3025 (Part 40) (Titrimetric Method)
101	CHEMICAL- WATER	Ground Water	Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)
102	CHEMICAL- WATER	Ground Water	Color	IS 3025 (Part 4) (Platinum Cobalt Method)
103	CHEMICAL- WATER	Ground Water	Conductivity	IS 3025 (Part 14) (Electrometric method)
104	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	IIS 3025 (Part 38) (Titrimetric Method)
105	CHEMICAL- WATER	Ground Water	Fluoride as F	APHA 23rd Edition (Spadns method)
106	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edition (Calculation method)
107	CHEMICAL- WATER	Ground Water	Nitrate as NO3	IS 3025 (Part 34) (Chromotropic acid Method)
108	CHEMICAL- WATER	Ground Water	Oil and Grease	IS 3025 (Part 39) (Partition Gravimetric Method)
109	CHEMICAL- WATER	Ground Water	pH	IS 3025: (Part 11) (Electrometric Method)
110	CHEMICAL- WATER	Ground Water	Phosphorous as PO4	IS 3025 (Part 31) (Stannous chloride) Method:
111	CHEMICAL- WATER	Ground Water	Potassium as K	IS 3025 (Part 45) Flame emission photometric method)
112	CHEMICAL- WATER	Ground Water	Sodium as Na	IS 3025 (Part 45) (Flame emission photometric method):

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6152 **Page No** 7 of 8

Validity 12/09/2022 to 11/09/2024 **Last Amended on** -

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113	CHEMICAL- WATER	Ground Water	Sulphate as SO4	APHA 23rd edition (Turbidimetric method)
114	CHEMICAL- WATER	Ground water	Temperature	IS 3025 (Part 9) (Temperature probe)
115	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16) (Gravimetric method)
116	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	IS 3025 (Part 21) (EDTA Titrimetric Method)
117	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS 3025 (Part 17) (Gravimetric method)
118	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10) (Nephelometric method)
119	CHEMICAL- WATER	Surface Water	Acidity as CaCO3	IS 3025 (Part 22) (Indicator Method)
120	CHEMICAL- WATER	Surface Water	Alkalinity as CaCO3	IS 3025 (Part 23) (Indicator Method)
121	CHEMICAL- WATER	Surface Water	Calcium as Ca	IIS 3025 (Part 40) (Titrimetric Method)
122	CHEMICAL- WATER	Surface Water	Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)
123	CHEMICAL- WATER	Surface Water	Color	IS 3025 (Part 4) (Platinum Cobalt Method)
124	CHEMICAL- WATER	Surface Water	Conductivity	IS 3025 (Part 14) (Electrometric method)
125	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38) (Titrimetric Method)
126	CHEMICAL- WATER	Surface Water	Fluoride as F	APHA 23rd Edition (Spadns method)
127	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA 23rd Edition (Calculation method)
128	CHEMICAL- WATER	Surface Water	Nitrate as NO3	IS 3025 (Part 34) (Chromotropic acid Method)
129	CHEMICAL- WATER	Surface Water	Oil and Grease	IS 3025 (Part 39) (Partition Gravimetric Method)
130	CHEMICAL- WATER	Surface Water	pH	IS 3025: (Part 11) (Electrometric Method)
131	CHEMICAL- WATER	Surface Water	Phosphorous as PO4	IS 3025 (Part 31) (Stannous chloride) Method

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6152	**Page No**	8 of 8
Validity	12/09/2022 to 11/09/2024	**Last Amended on**	-

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132	CHEMICAL- WATER	Surface Water	Potassium as K	IS 3025 (Part 45) Flame emission photometric method)
133	CHEMICAL- WATER	Surface Water	Sodium as Na	IS 3025 (Part 45) (Flame emission photometric method)
134	CHEMICAL- WATER	Surface Water	Sulphate as SO4	APHA 23rd Edition 4500-SO4 -E (turbidimetric method)
135	CHEMICAL- WATER	Surface Water	Temperature	IS 3025 (Part 9) (Temperature probe
136	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IIS 3025 (Part 16) (Gravimetric method)
137	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	IS 3025 (Part 21) (EDTA Titrimetric Method)
138	CHEMICAL- WATER	Surface Water	Total suspended Solids	IS 3025 (Part 17) (Gravimetric method)
139	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10) (Nephelometric method)