National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DR. SUBBARAO'S ENVIRONMENT CENTER, QUALITY ASSURANCE LABORATORY, PLOT NO.15, ARUNDHATI,MSEB ROAD,VISHRAMBAG, SANGLI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 28/01/2023 to 27/01/2025 **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	Fine particulate matter (PM2.5)	SEC/SOP/Air/Ambient/03:2018
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen	IS 5182(Part 6): 2006
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Respirable suspended particulate matter (PM10)	IS 5182 (P-23):2006
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SOx)	IS 5182 (P-2):2001
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen	IS 11255 (Part 7):2005
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide	IS 11255 (Part 2) :1985 (RA 2003)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emissions	Particulate matter (PM)	IS 11255 (Part 1):1985
8	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Alkalinity	IS:3025 (P-23) 1986
9	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Biological Oxygen Demand (BOD)	IS:3025 (Part- 44):1993 (3 days, 27 °C ±1°C. Oxygen Depletion method)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Calcium(as Ca)	IS:3025 (P-40) 1991
11	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Chemical Oxygen Demand (COD)	IS:3025 (P-58) :2006
12	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Choride	IS: 3025 (P-32) 1988
13	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluent	Electrical Conductivity(EC)	IS: 3025 (P-14)-2013
14	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Magnesium(as Mg)	IS:3025 (P-46) 1994
15	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Oil and Grease	IS 3025 (Part-39)-1991, (RA 2003)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Potassium	IS:3025 (P-45) 1993
17	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Sodium	IS:3025 (P-45) 1993
18	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Sulphate	IS:3025 (P-24) 1986, (RA 2003)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Total Dissolved Solids(TDS)	IS:3025 (P-16)-1984 Amd.1
20	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Total Hardness	IS:3025 (P-21) 2009
21	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Total Suspended Solids(TSS)	IS:3025 (P-17)-1984
22	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid efluent	pH	IS:3025 (P-II)-1983
23	CHEMICAL- SOIL AND ROCK	Soil	Available Potassium	Testing Manual of Soil, Ministry of Agriculture, Govt. of India -2011-(Method for netural and Alkaline soil) PP-99-100
24	CHEMICAL- SOIL AND ROCK	Soil	Exchangeable Calcium	Testing Manual of Soil, Ministry of Agriculture, Govt. of India -2011-(Method for netural and Alkaline soil) PP-102-104
25	CHEMICAL- SOIL AND ROCK	Soil	Exchangeable Magnesium	Testing Manual of Soil, Ministry of Agriculture, Govt. of India -2011-(Method for netural and Alkaline soil) PP-104-105
26	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter(Organic Carbon)	IS 2720(P:XXII)(RA 2010)
27	CHEMICAL- SOIL AND ROCK	Soil	pH	IS 2720 (P-26)
28	CHEMICAL- SOIL AND ROCK	Soils	Electrical Conductivity(EC)	IS 14767:2000
29	CHEMICAL- SOIL AND ROCK	Soils	Mineralizable Nitrogen	Testing Manual of Soil, Ministry of Agriculture, Govt. of India -2011-(Method for netural and Alkaline soil) PP-89-91
30	CHEMICAL- WATER	Drinking Water	Total Hardness	IS:3025 (P-21) 2009
31	CHEMICAL- WATER	Ground Water	Chlorides(As Cl-)	IS:3025 (P-32) 1988
32	CHEMICAL- WATER	Ground Water	Fluoride	APHA23rd Ed. 2017, 4500-F – D. SPANDS Method
33	CHEMICAL- WATER	Ground Water	Sulphate(As SO4)	IS:3025 (P-24) 1986, (RA 2003)
34	CHEMICAL- WATER	Ground Water	Turbidity	IS:3025 (P-10) 1984
35	CHEMICAL- WATER	Irrigation Water	Sodium	IS:3025 (P-45) 1993
36	CHEMICAL- WATER	Irrigation Water	Total Dissolved Solids	IS:3025 (P-16)-1984 Amd.1

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37	CHEMICAL- WATER	Irrigation Water	Total Nitrate Nitrogen(as NO3)	APHA 23rd Ed. 2017, 4500-NO - B. 3 Ultraviolet Spectrophotometric Method
38	CHEMICAL- WATER	Surface Water	Acidity	IS : 3025 (Part 22) – 1986
39	CHEMICAL- WATER	Surface Water	Chlorides(Cl-)	IS:3025 (P-32) 1988
40	CHEMICAL- WATER	Surface Water	Total Ntrate Nitrogen(As NO3)	APHA 23rd Ed. 2017, 4500-NO - B. 3 Ultraviolet Spectrophotometric Method
41	CHEMICAL- WATER	Drinking Water	Acidity	IS : 3025 (Part 22) – 1986
42	CHEMICAL- WATER	Drinking water	Biological Oxygen Demand(BOD)	IS:3025 (Part- 44):1993 (3 days, 27°C ±1°C. Oxygen Depletion method)
43	CHEMICAL- WATER	Drinking Water	Calcium(asCa)	IS:3025 (P-40) 1991
44	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand(COD)	IS:3025 (P-58) :2006
45	CHEMICAL- WATER	Drinking Water	Chlorides	IS: 3025 (P-32) 1988
46	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS: 3025 (P-14)-2013
47	CHEMICAL- WATER	Drinking Water	Fluroide	APHA23rd Ed. 2017, 4500-F – D. SPANDS Method
48	CHEMICAL- WATER	Drinking Water	Magnesium (as Mg)	IS:3025 (P-46) 1994
49	CHEMICAL- WATER	Drinking Water	pH	IS:3025 (P-II)-1983
50	CHEMICAL- WATER	Drinking Water	Potassium	IS:3025 (P-45) 1993
51	CHEMICAL- WATER	Drinking Water	Sodium	IS:3025 (P-45) 1993
52	CHEMICAL- WATER	Drinking Water	Sulphate(as SO4)	IS:3025 (P-24) 1986, (RA 2003)
53	CHEMICAL- WATER	Drinking Water	Total Alkalinity(As CaCO3)	IS:3025 (P-23) 1986
54	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids(TDS)	IS:3025 (P-16)-1984 Amd.1
55	CHEMICAL- WATER	Drinking Water	Total Nitrate Nitrogen (as NO3)	APHA 23rd Ed. 2017, 4500-NO - B. 3 Ultraviolet Spectrophotometric Method
56	CHEMICAL- WATER	Drinking Water	Turbidity	IS:3025 (P-10) 1984
57	CHEMICAL- WATER	Ground Water	Acidity	IS : 3025 (Part 22) – 1986
58	CHEMICAL- WATER	Ground Water	Biological Oxygen Demand (BOD)	IS:3025 (Part- 44):1993 (3 days, 27°C ±1°C)
59	CHEMICAL- WATER	Ground Water	Calcium (As Ca)	IS:3025 (P-40) 1991

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60	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand(COD)	IS:3025 (P-58) :2006
61	CHEMICAL- WATER	Ground Water	Elecrical Conductivity (EC)	IS:3025 (P-14)-1984
62	CHEMICAL- WATER	Ground Water	Magnesium(As Mg)	IS:3025 (P-46) 1994
63	CHEMICAL- WATER	Ground Water	pH	IS:3025 (P-II)-1983
64	CHEMICAL- WATER	Ground Water	Potassium	IS:3025 (P-45) 1993
65	CHEMICAL- WATER	Ground Water	Sodium	IS:3025 (P-45) 1993
66	CHEMICAL- WATER	Ground Water	Total Alkalinity(As CaCO3)	IS:3025 (P-23) 1986
67	CHEMICAL- WATER	Ground Water	Total Dissolved Solids(TDS)	IS:3025 (P-16)-1984 Amd.1
68	CHEMICAL- WATER	Ground Water	Total Hardness	IS:3025 (P-21) 1983
69	CHEMICAL- WATER	Ground Water	Total Nitrate Nitrogen(As NO3)	APHA 23rd Ed. 2017, 4500-NO - B. 3 Ultraviolet Spectrophotometric Method
70	CHEMICAL- WATER	Irrigation Water	Turbidity	IS:3025 (P-10) 1984
71	CHEMICAL- WATER	Irrigation Water	Acidity	IS : 3025 (Part 22) – 1986
72	CHEMICAL- WATER	Irrigation Water	Biological Oxygen Demand(BOD)	IS:3025 (Part- 44):1993 (3 days, 27°C ±1°C.)
73	CHEMICAL- WATER	Irrigation Water	Calcium (As Ca)	IS:3025 (P-40) 1991
74	CHEMICAL- WATER	Irrigation water	Chemical Oxygen Demand(COD)	IS:3025 (P-58) :2006
75	CHEMICAL- WATER	Irrigation Water	Chlorides	IS:3025 (P-32) 1988
76	CHEMICAL- WATER	Irrigation Water	Electrical Conductivity(EC)	IS:3025 (P-14)-1984
77	CHEMICAL- WATER	Irrigation Water	Fluoride	APHA23rd Ed. 2017, 4500-F – D. SPANDS Method
78	CHEMICAL- WATER	Irrigation Water	Magnesium (As Mg)	IS:3025 (P-46) 1994
79	CHEMICAL- WATER	Irrigation Water	pH	IS:3025 (P-II)-1983
80	CHEMICAL- WATER	Irrigation Water	Potassium	IS:3025 (P-45) 1993
81	CHEMICAL- WATER	Irrigation Water	Sulphate(SO4)	IS:3025 (P-24) 1986, (RA 2003)
82	CHEMICAL- WATER	Irrigation water	Total Alkalinity (as CaCO3)	IS:3025 (P-23) 1986
83	CHEMICAL- WATER	Irrigation water	Total Hardness	IS:3025 (P-21) 1983
84	CHEMICAL- WATER	Surface Water	Biological Oxygen Demand(BOD)	IS:3025 (Part- 44):1993 (3 days, 27°C ±1°C)
85	CHEMICAL- WATER	Surface Water	Calcium(as Ca)	IS:3025 (P-40) 1991

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86	CHEMICAL- WATER	Surface Water	Chmical Oxygen Demand(COD)	IS:3025 (P-58) :2006
87	CHEMICAL- WATER	Surface Water	Electrical Conductivity(EC)	IS:3025 (P-14)-1984
88	CHEMICAL- WATER	Surface Water	Fluoride	APHA23rd Ed. 2017, 4500-F – D. SPANDS Method
89	CHEMICAL- WATER	Surface Water	Magnesium (as Mg)	IS:3025 (P-46) 1994
90	CHEMICAL- WATER	Surface Water	pH	IS:3025 (P-II)-1983
91	CHEMICAL- WATER	Surface Water	Potassium	IS:3025 (P-45) 1993
92	CHEMICAL- WATER	Surface Water	Sodium	IS:3025 (P-45) 1993
93	CHEMICAL- WATER	Surface Water	Sulphate (As SO4)	IS:3025 (P-24) 1986, (RA 2003)
94	CHEMICAL- WATER	Surface Water	Total Alkalinity(as CaCO3)	IS:3025 (P-23) 1986
95	CHEMICAL- WATER	Surface Water	Total Dissolved Solids(TDS)	IS:3025 (P-16)-1984 Amd.1
96	CHEMICAL- WATER	Surface Water	Total Hardness	IS:3025 (P-21) 1983
97	CHEMICAL- WATER	Surface Water	Turbidity	IS:3025 (P-10) 1984

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Noise level	IS 9989:1981(RA 2008)
2	CHEMICAL- ATMOSPHERIC POLLUTION	DG set	Noise level	IS 4758:1968