



(A Constituent Board of Quality Council of India)



#### SCOPE OF ACCREDITATION

Laboratory Name LAWN ENVIRO ASSOCIATES, #184-C, LAWN HOUSE, VENGALRAO NAGAR,

HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5800 Page No.: 1 / 10

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Pe	rmanent Facility		
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia	(NAAQMS/36/2012-13) CPCB Guidelines for the measurement of Ambient Air Pollutants, Volume – 1, 2012-13; Indophenol Blue Method: 2013	20 μg/m³ to 500 μg/m³
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS 5182 (Part 6): (RA 2017): 2006	6 μg/m³ to 750 μg/m³
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size less than 10µm) or PM10	IS 5182 (Part 23): (RA2017) : 2006	5 μg/m³ to 1000 μg/m³
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size less than 2.5μm) or PM2.5	(NAAQMS/36/2012-13) CPCB Guidelines for the measurement of Ambient Air Pollutants, Volume – 1, 2012-13; Gravimetric Method (Cyclonic Flow Technique): 2013	5 μg/m³ to 1000 μg/m³
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182 (Part 2): (RA 2017) : 2001	6 μg/m³ to 1050 μg/m³
6	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Oil & Grease	APHA 23rd Edition, 5520 B: 2017	5 mg/L to 5000 mg/L
7	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Silica as SiO2	APHA 23rd Edition, 4500 SiO2 C: 2017	1.0 mg/L to 1000 mg/L





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8	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Acidity as CaCO3	APHA 23rd Edition, 2310 B: 2017	10 mg/L to 1000 mg/L
9	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Ammonical Nitrogen as N	APHA 23rd Edition, 4500 NH3 B, C: 2017	10 mg/L to 10000 mg/L
10	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Chlorides as Cl-	APHA 23rd Edition, 4500 Cl- B: 2017	10 mg/L to 50000 mg/L
11	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Conductivity @ 25°C	APHA 23rd Edition, 2510 B: 2017	2 μs/cm to 50000 μs/cm
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Fixed Solids	APHA 23rd Edition, 2540 E: 2017	10 mg/L to 100000 mg/L
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Fluorides as F-	APHA 23rd Edition, 4500 F- D: 2017	0.2 mg/L to 10 mg/L
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Nitrate Nitrogen as N	IS:3025 (Part 34):, RA :2014 : 1988	1 mg/L to 1000 mg/L
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Nitrite Nitrogen as N	APHA 23rd Edition, 4500 NO2 - B : 2017	1.0 mg/L to 500 mg/L
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Nitrogen (Organic) as N	APHA 23rd Edition, 4500 N (org) B: 2017	10 mg/L to 1000 mg/L
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	pH @ 25°C	APHA 23rd Edition,4500 H+ B: 2017	2 to 12





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18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Residual Chlorine as Cl	APHA 23rd Edition, 4500 Cl B: 2017	1.0 mg/L to 100 mg/L
19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Sulphates as SO4-2	APHA 23rd Edition, 4500 SO4-2 D: 2017	5 mg/L to 50000 mg/L
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Temperature	APHA 23rd Edition,2550 B: 2017	10 °C to 60 °C
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Total Alkalinity as CaCO3	APHA 23rd t Edition,2320 B: 2017	10 mg/L to 1000 mg/L
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Total Dissolved Solids @180°C	APHA 23rd Edition,2540 C: 2017	10 mg/L to 100000 mg/L
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Total Solids@ 103 - 105oC	APHA 23rd Edition,2540 B: 2017	10 mg/L to 100000 mg/L
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Volatile Solids	APHA 23rd Edition, 2540 E: 2017	10 mg/L to 50000 mg/L
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Hexavalent Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B: 2017	0.05 mg/L to 100 mg/L
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Phenolic Compounds as C6H5OH	APHA 23rd Edition, 5530 D : 2017	1.0 mg/L to 100 mg/L
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Bio Chemical Oxygen Demand (3 Days @27°C)	IS: 3025(Part-44) , RA 2014 : 1993	4 mg/L to 50000 mg/L





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28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Boron as B	APHA 23rd Edition, 4500-B B: 2017	1.0 mg/L to 500 mg/L
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Calcium as Ca	APHA 23rd Edition, 3500 Ca B: 2017	10 mg/L to 5000 mg/L
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Chemical Oxygen Demand	APHA 23rd Edition, 5220 B: 2017	20 mg/L to 100000 mg/L
31	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Cyanide	APHA 23rd Edition, 4500 CN- C, E: 2017	0.1 mg/L to 1000 mg/L
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Dissolved Oxygen	APHA 23rd Edition, 45000 C: 2017	1 mg/L to 9 mg/L
33	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Iron as Fe	APHA 23rd Edition, 3500 Fe B: 2017	1.0 mg/L to 1000 mg/L
34	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Phosphorus as P	APHA 23rd Edition, 4500 P C: 2017	1 mg/L to 100 mg/L
35	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Potassium as K	APHA 23rd Edition, 3500 K B: 2017	5 mg/L to 5000 mg/L
36	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Sodium as Na	APHA 23rd Edition, 3500 Na B: 2017	5 mg/L to 5000 mg/L
37	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C: 2017	10 mg/L to 5000 mg/L





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38	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Suspended Solids @103 - 105°C	APHA 23rd Edition,2540 D: 2017	10 mg/L to 10000 mg/L
39	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Magnesium as Mg	APHA 23rd Edition, 3500 Mg B: 2017	10 mg/L to 1000 mg/L
40	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Available Sodium (as Na)	SOP No. LAWN/STP/S/LAB-259, Issue/Revision No.03/00, Issue Date: 10.12.2018: 2018	5 mg/kg to 2000 mg/kg
41	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Available Calcium as Ca	SOP No. LAWN/STP/S/LAB-263, Issue/Revision No.03/00, Issue Date :10.12.2018 : 2018	50 mg/kg to 15000 mg/kg
42	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Available Magnesium as Mg	SOP No. LAWN/STP/S/LAB-263, Issue/Revision No. 03/00, Issue Date: 10.12.2018: 2018	50 mg/kg to 10000 mg/kg
43	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Available Phosphorus (as P)	SOP No. LAWN/STP/S/LAB-283, Issue/Revision No. 03/00, Issue Date: 10.12.2018: 2018	5 mg/kg to 5000 mg/kg
44	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Available Potassium(as K)	SOP No. LAWN/STP/S/LAB-260 Issue/Revision No. 03/00, Issue Date: 10.12.2018: 2018	5 mg/kg to 2000 mg/kg





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45	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Electrical Conductivity @ 25°C	IS 14767 (RA: 2016) : 2000	2 μs/cm to 10000 μs/cm
46	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Moisture	IS: 2720( Part: 2 ) (RA : 2010) : 1973	1.0 % to 90 %
47	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Nitrogen	IS 14684: RA : 2014, SI.No.3 : 1999	20 mg/kg to 10000 mg/kg
48	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Organic Carbon	IS 2720 (Part 22) (RA:2010) : 1972	0.1 % to 10 %
49	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Organic Matter	IS 2720 (Part 22) (RA:2010) : 1972	0.2 % to 10 %
50	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	рН	IS 2720 (Part 26) : (RA:2011) : 1987	1 to 14
51	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Soluble Chlorides as CI-	SOP No. LAWN/STP/LAB-261, Issue/Revision No. 03/00, Issue Date: 10.12.2018: 2018	50 mg/kg to 1000 mg/kg
52	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediment	Soluble Sulphates as SO4-2	IS: 2720 (Part – 27): (RA: 2006) : 1977	50 mg/kg to 1000 mg/kg
53	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Acidity as CaCO3	APHA 23rd Edition, 2310 B: 2017	10 mg/L to 1000 mg/L





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54	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Ammonical Nitrogen as N	APHA 23rd Edition, 4500 NH3 B, C: 2017	5 mg/L to 1000 mg/L
55	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Bio Chemical Oxygen Demand (3 Days @27°C)	IS: 3025(Part-44) , RA 2014 : 1993	4 mg/L to 500 mg/L
56	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Boron as B	APHA 23rd Edition, 4500 B-B : 2017	0.1 mg/L to 50 mg/L
57	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Calcium as Ca	APHA 23rd Edition, 3500 Ca B: 2017	10 mg/L to 5000 mg/L
58	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Chemical Oxygen Demand	APHA 23rd Edition, 5220 B: 2017	10 mg/L to 1000 mg/L
59	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Chlorides as Cl-	APHA 23rd Edition, 4500 Cl- B: 2017	10 mg/L to 5000 mg/L
60	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Colour	APHA 23rd Edition, 2120 C: 2017	1 CU to 100 CU
61	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Conductivity @ 25°C	APHA 23rd Edition, 2510 B: 2017	2 μs/cm to 10000 μs/cm
62	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Dissolved Oxygen	APHA 23rd Edition, 45000 C: 2017	1 mg/L to 9 mg/L
63	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Fluorides as F-	APHA 23rd Edition, 4500 F- D: 2017	0.2 mg/L to 10 mg/L





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64	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Hexavalent Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B: 2017	0.05 mg/L to 100 mg/L
65	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Iron as Fe	APHA 23rd Edition, 3500 Fe B: 2017	0.5 mg/L to 100 mg/L
66	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Magnesium as Mg	APHA 23rd Edition, 3500 Mg B: 2017	10 mg/L to 1000 mg/L
67	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Nitrate Nitrogen as N	APHA 23rd Edition, 4500 NO3- B : 2017	1 mg/L to 100 mg/L
68	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Nitrite Nitrogen as N	APHA 23rd Edition, 4500 NO2 - B (Colorimetric Method): 2017	0.1 mg/L to 100 mg/L
69	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Oil & Grease	APHA 23rd Edition, 5520 B: 2017	5 mg/L to 500 mg/L
70	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	pH @ 25°C	APHA 23rd Edition, 4500 H+ B: 2017	2 to 12
71	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Phenolic Compounds as C6H5OH	APHA 23rd Edition, 5530 D (Direct Photometric Method): 2017	0.1 mg/L to 100 mg/L
72	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Phosphorus as P	APHA 23rd Edition, 4500 P C: 2017	1.0 mg/L to 100 mg/L





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73	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Potassium as K	APHA 23rd Edition, 3500 K B: 2017	5 mg/L to 1000 mg/L
74	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Residual Chlorine as Cl	APHA 23rd Edition, 4500 Cl B: 2017	0.2 mg/L to 10 mg/L
75	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Silica as SiO2	APHA 23rd Edition, 4500 SiO2 C: 2017	0.1 mg/L to 100 mg/L
76	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Sodium as Na	APHA 23rd Edition, 3500 Na B: 2017	5 mg/L to 1000 mg/L
77	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Sulphates as SO4-2	APHA 23rd Edition, 4500 SO4-2 E : Turbidity Method: 2017	5 mg/L to 5000 mg/L
78	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Temperature	APHA 23rd Edition,2550 B: 2017	10 °C to 60 °C
79	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Total Alkalinity as CaCO3	APHA 23rd t Edition, 2320 B: 2017	10 mg/L to 5000 mg/L
80	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Total Cyanide CN-	APHA 23rd Edition, 4500 CN- C, E: 2017	0.05 mg/L to 10 mg/L
81	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Total Dissolved Solids @180°C	APHA 23rd Edition, 2540 C: 2017	10 mg/L to 5000 mg/L
82	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C: 2017	10 mg/L to 5000 mg/L





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83	CHEMICAL- WATER	Surface Water, Ground Water, Bore well Water& Drinking Water	,	APHA 23rd Edition, 2130 B: 2017	1 NTU to 100 NTU