National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : COASTAL WASTE MANAGEMENT PROJECT - LABORATORY, RD. NO. 20/5, VISAKHAPATNAM, ANDHRA PRADESH, 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	IS 5182 (Part 6):
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Respirable Suspended particulate Matter (PM 10)	IS 5182 (Part 23): (Gravimetric Method)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide	IS 5182 (Part 2):
4	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Ammonical Nitrogen as N in water Leachate	APHA 23rde Ed.; 4500 NH3 B,C (Distillation & titrimetric method)
5	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Arsenic as As	USEPA- 3050B, (1996) APHA-3500 As B (2017) (Spectrophotometric method)
6	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Arsenic as As in TCLP	USEPA 1311 (1992) (Extraction) APHA 23rd Ed.; 3500 As B (2017) (Spectrophotometric method)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Arsenic as As in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) APHA; 3500 As B, (2017) (Spectrophotometric method)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Bulk Density	ASTM D 5057-10, (Gravimetric method)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Cadmium as Cd	USEPA-3050B (Acid Digestion) USEPA 7000B,(2007), AAS
10	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Cadmium as Cd in TCLP	USEPA 1311 (1992) (Extraction) USEPA7000B (2007), AAS
11	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Cadmium as Cd in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) USEPA-7000B. (2007), AAS
12	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Copper as Cu	USEPA -3050B (Acid digestion) USEPA700B (2007), AAS
13	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Copper as Cu in TCLP	USEPA 1311 (1992), (Extraction) USEPA7000B (2007), AAS
14	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Copper as Cu in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) USEPA-7000B, (2007) AAS

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15	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Extractable Organics	USEPA- 3540C (Soxhlet Extraction Method)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Flash Point	USEPA; 1020A (closed cup method)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Haxavalent Chromium as Cr6+	USEPA-3050B (Acid Digestion) USEPA 1998, SW-846; 7196A (Spectrophometric method)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Hexavalent Chromium as Cr in TCLP	USEPA 1311 (1992) (Extraction) APHA 23rd Ed.; 3500 Cr B, (2017) (Spectrophotometric method)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Hexavalent Chromium as Cr6+ in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) APHA; 3500 Cr B, (2017) (Spectrophotometric method)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Iron as Fe	USEP 3050B(1996) (Acid Digestion) USEPA7000B, (2007), AAS
21	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Iron as Fe in TCLP	USEPA 1311 (1992) (Extraction) USEPA7000B (2007), AAS
22	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Iron as Fe in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) USEPA-7000B, (2007), AAS
23	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Lead as Pb	USEPA-3050B (1996) (Acid Digestion) USEPA7000B, (2007), AAS
24	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Lead as Pb in TCLP	USEPA 1311 (1992), (Extraction) USEPA7000B (2007), AAS
25	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Lead as Pb in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) USEPA-7000B, (2007) AAS
26	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Loss on Drying at 105 degree C	APHA 23rd Ed. 2540 G
27	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Loss on Ignition at 550 degree C	APHA 23rd Ed. 2540 G
28	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Moisture content	SW- 846 - USEPA 9000 (Karl Fisher Titration method)

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29	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Nickel as Ni	USEPA-3050B (1996) (Acid Digestion) USEPA7000B, (2007), AAS
30	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Nickel as Ni in TCLP	USEPA 1311 (1992), (Extraction) USEPA7000B (2007), AAS
31	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Nickel as Ni in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) USEPA-7000B, (2007) AAS
32	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Paint Filter Liquid Test	USEPA-9095 A (Distillation) (Filtration Method)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	pH	USEPA; 9045 C, (Electrometric method)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Reactive Cyanide as HCN	USEPA;9010 B (Distillation) APHA 23rd Ed.; 4500 CN-E(2017) (Spectrophotometric method)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Reactive Sulfide as H2S	USEPA 9030B (1996) (Distillation); USEPA 9034(1996) (Iodometric test)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous waste	Test for Cyanide	CWMP/SOP/LAB-167; (2019) (Extraction), APHA 23rd Ed.; 4500 CN- K (2017) (spot identification)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Test for Sulfide	CWMP/SOP/LAB-167; (2019) (Extraction); APHA 23rd Ed.; 4500 S2-A (2017)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Total Chromium as Cr in TCLP	USEPA 1311 (1992) (Extraction) USEPA7000B (2007), AAS
39	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Total Chromium as Cr in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extraction) USEPA-7000B (2007), AAS
40	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Total cyanide as CN-	USEPA; 9010 C (2004) APHA 23rd Ed.; 4500 CN- E (2017) (spectrophotometric method)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Total sulphide as H2S	USEPA 9030B (1996) (Distillation); USEPA 9034 (1996) (Iodometric test)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Water soluble inorganics	APHA 23rd Ed.; 2540 B&E (Gravimetric method)

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43	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	water soluble organics	APHA 23rd Ed.; 2540 B&E (Gravimetric method)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Zinc as Zn	USEPA- 3050B (1996) (Acid Digestion) USEPA7000B, (2007), AAS
45	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Zinc as Zn in TCLP	USEPA 1311 (1992), (Extraction) USEPA7000B (2007), AAS
46	CHEMICAL- POLLUTION & ENVIRONMENT	Hazardous Waste	Zinc as Zn in Water Leachate	CWMP/SOP/LAB-167; (2019) (Extreaction) USEPA-7000B, (2007) AAS
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity as CaCO3	APHA 23rd Ed., 2310 B (Titration Method)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity as CaCO3	APHA 23rd Ed.; 2320B (Titration method)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Ammonical Nitrogen as N	APHA 23rd Ed.; 4500 NH3 B,C (Distillation & TItrimrtric method)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Arsenic as As	APHA 23rd Ed,; 3500 As B, (Spectrophotometric method)
51	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Biochemical Oxygen Demand 3 days at 27 degree C	IS: 3025 (part 44) (titrimetric method)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Cadmium as Cd	APHA 23rd Ed.; 3111 B, AAS
53	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Calcium as Ca	APHA 23rd Ed.; 3500 Ca B (EDTA titrimetric method)
54	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Chemical Oxygen Demand	APHA 23rd Ed.; 5220 B (Open reflux method)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chlorides as Cl-	APHA 23rd Ed.; 4500 Cl- C (Mercuric Nitrate method)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Conductivity	APHA 23rd Ed., 2510 B (Laboratory Method)
57	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Copper as Cu	APHA 23rd Ed.; 3111 B, AAS
58	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Cyanides Total as CN-	APHA 23rd Ed.; 4500 CN- C, E (spectrophotometric method)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Dissolved Oxygen as O2	APHA 23rd Ed.; 4500 O C (Azide modification method)

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60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Fixed solids	APHA 23rd Ed.; 2540 E (Gravimetric method)
61	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Flourides as F-	APHA 23rd Ed.; 4500 F-D (Spectrophotometric method)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Hexavalent Chromium as Cr+6	APHA 23rd Ed.; 3500 Cr B (Spectrophotometric method)
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Iron as Fe	APHA 23rd Ed.; 3111 B, AAS
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Lead as Pb	APHA 23rd Ed.; 3111 B, AAS
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Magnesium as Mg	APHA 23rd Ed.; 3500 Mg B (calculation method)
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Nickel as Ni	APHA 23rd Ed.; 3111 B, AAS
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Nitrate Nitrogen as N	APHA 23rd Ed.; 4500 NO3-E (Spectrophotometric Method)
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Nitrite Nitrogen as N	APHA 23rd Ed.; 4500 NO2- B
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Nitrogen (Organic) as N	APHA 23rd Ed.; 4500 N (org) B (Macro-Kjeldahl Method)
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	oil & grease	APHA 23rd Ed.; 5520 B (Gravimetric method)
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	APHA 23rd Ed., 4500 H+ B (Electrometric Method)
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Phosphorus as P	APHA 23rd Ed.; 4500 P C (Spectrophotometric method)
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Potassium as K	APHA 23rd Ed.; 3500 K B (Flame Photometric Method)
74	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Residual Chlorine as Cl	APHA 23rd Ed.; 4500Cl B (Iodometric method)
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Silica as SiO2	APHA 23rd Ed.; 4500 SiO2 (Spectrophotometeric method)
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Sodium as Na	APHA 23rd Ed.; 3500 Na B (Flame Photometric method)
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Sulphates as SO4-2	APHA 23rd Ed.; 4500 SO4-2 D (Gravimetric Method)
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Sulphide as H2S	APHA 23rd Ed.; 4500 S2 F (Iodometric Method)

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79	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Sulphite as SO3-2	APHA 23rd Ed.; 4500 SO3-2, B (iodometric Method)
80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Temperature	APHA 23rd Ed., 2550-A, B (Glass or Electronic Thermomter method)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Total Chromium as Cr	APHA 23rd Ed.; 3111 B, AAS
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total dissolved solids	APHA 23rd Ed.; 2540 C (Gravimetric method)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Total hardness as CaCO3	APHA 23rd Ed.; 2340 C (EDTA titrimetric method)
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Solids	APHA 23rd Ed.; 2540 B (Gravimetric method)
85	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	Total suspended solids	APHA 23rd Ed.; 2540 D (Gravimetric method)
86	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Turbidity	APHA 23rd Ed.; 2130 B (Nephlometric method)
87	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Volatile solids	APHA 23rd Ed.; 2540 E (Gravimetric method)
88	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Zinc as Zn	APHA 23rd Ed.; 3111 B, AAS
89	CHEMICAL- RESIDUES IN WATER	Ground Water	Cadmium as Cd	APHA 23rd Ed.; 3111 B, AAS
90	CHEMICAL- RESIDUES IN WATER	Ground Water	Copper as Cu	APHA 23rd Ed.; 3111 B, AAS
91	CHEMICAL- RESIDUES IN WATER	Ground Water	Hexavalent Chromium as Cr6+	APHA 23rd Ed.; 3500 Cr B (Spectrophotometric Method)
92	CHEMICAL- RESIDUES IN WATER	Ground Water	Iron as Fe	APHA 23rd Ed.; 3111 B, AAS
93	CHEMICAL- RESIDUES IN WATER	Ground Water	Lead as Pb	APHA 23rd Ed.; 3111B, AAS
94	CHEMICAL- RESIDUES IN WATER	Ground Water	Nickel as Ni	APHA 23rd Ed.; 3111 B, AAS
95	CHEMICAL- RESIDUES IN WATER	Ground Water	Total Chromium as Cr	APHA 23rd Ed.; 3111 B, AAS
96	CHEMICAL- RESIDUES IN WATER	Ground Water	Zinc as Zn	APHA 23rd Ed.; 3111 B, AAS

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97	CHEMICAL- WATER	Ground Water	Acidity as CaCO3	APHA 23rd Ed.; 2310 B (Titrimetric Method)
98	CHEMICAL- WATER	ground water	Alkalinity as CaCO3	APHA 23rd.; 2320 B (Titrimetric Method)
99	CHEMICAL- WATER	Ground water	Biochemical Oxygen Demand 3 Days at 27 degree C	IS : 3025 (Part 44)(Titrimetric Method)
100	CHEMICAL- WATER	Ground water	Calcium as Ca	APHA 23rd.; 3500 Ca B (EDTA Titrimetric Method)
101	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	APHA 23rd Ed.; 5220 B (Open Reflux Method)
102	CHEMICAL- WATER	Ground Water	Chlorides as Cl-	APHA 23rd Ed.; 4500 Cl- B (Mercuric Nitrate Method)
103	CHEMICAL- WATER	Ground Water	Conductivity	APHA 23rd Ed.; 2510B (Laboratory Method)
104	CHEMICAL- WATER	Ground Water	CyanidesTotal as CN-	APHA 23rd Ed.; 4500 CN- C, E, (Distillation & Spectrophotometric Method)
105	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA 23rd Ed.; 4500 O C (Azide Modification Method)
106	CHEMICAL- WATER	Ground Water	Fixed Solids	APHA 23rd Ed.; 2540 E (Gravimetric Method)
107	CHEMICAL- WATER	Ground Water	Fluorides as F-	APHA 23rd Ed.;4500 F- D (SPADNS Method)
108	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Ed.; 3500 Mg B (Calculation Method)
109	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen as N	APHA 23rd Ed.; 4500 NO3- B (Spectrophotometric Method)
110	CHEMICAL- WATER	Ground Water	Nitrite Nitrogen as N	APHA 23rd Ed.; 4500 NO2
111	CHEMICAL- WATER	Ground Water	Nitrogen (Ammonia) as N	APHA 23rd Ed.; 4500 NH3 B C (Distillation and Titrimetric Method)
112	CHEMICAL- WATER	Ground Water	Nitrogen (Organic) as N	APHA 23rd Ed.; 4500 N (org) B, (Macro-Kjeldahl Method)
113	CHEMICAL- WATER	Ground Water	Oil & Grease	APHA 23rd Ed.;5520 B (Gravimetric Method)
114	CHEMICAL- WATER	Ground Water	pH	APHA 23rd Ed.; 4500 H+ B (Electrometric Method)

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115	CHEMICAL- WATER	Ground Water	Phosphorus as P	APHA 23rd Ed.; 4500 P C (Spectrophotometric Method)
116	CHEMICAL- WATER	Ground Water	Potassium as K	APHA 23rd Ed.; 3500 K B (Flame Photometric Method)
117	CHEMICAL- WATER	Ground Water	Residual Chlorine as Cl	APHA 23rd Ed.; 4500 Cl B (Iodometric Method)
118	CHEMICAL- WATER	Ground Water	Silica as SiO2	APHA 23rd Ed.; 4500 SiO2 C (Spectrophotometric Method)
119	CHEMICAL- WATER	Ground Water	Sodium as Na	APHA 23rd mEd.; 3500 Na B (Flame Photometric Method)
120	CHEMICAL- WATER	Ground Water	Sulphates as SO4-2	APHA 23rd Ed.; 4500 SO4-2 D (Gravimetric Method)
121	CHEMICAL- WATER	Ground Water	Sulphide as S-2	APHA 23rd Ed.; 4500 S2 F, (Iodometric Method)
122	CHEMICAL- WATER	Ground Water	Sulphite as SO3-2	APHA 23rd Ed.; 4500 SO3-2 B (Iodometric Method)
123	CHEMICAL- WATER	Ground Water	Temperature	APHA 23rd Ed.; 2550-A,B (Glass or Electronic Thermometer Method)
124	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rd Ed.; 2540 C (Gravimetric Method)
125	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA 23rd Ed.; 2340 C (EDTA Titration Method)
126	CHEMICAL- WATER	Ground Water	Total Solids	APHA 23rd Ed.; 2540 B (Gravimetric Method)
127	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA 23rd Ed.; 2540 D (Gravimetric Method)
128	CHEMICAL- WATER	Ground Water	Turbidity	APHA 23rd Ed.; 2130 B (Nephlometric Method)
129	CHEMICAL- WATER	Ground Water	Volatile Solids	APHA 23rd Ed.; 2540 E (Gravimetric Method)