National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GEMS PROJECTS PRIVATE LIMITED (ENVIRONMENTAL LABORATORY DIVISION), HARHI ROAD, VILLAGE KATARPA, PISKA NAGRI, RANCHI, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11067 **Page No** 1 of 5

Validity 19/10/2022 to 18/10/2024 **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- POLLUTION & ENVIRONMENT	Industrial / Domestic Waste	Chemical Oxygen Demand	IS 3025 (Part - 58)
2	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / Domestic Waste	Iron	IS 3025 (Part - 53)
3	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / Domestic Waste	pH	IS 3025 (Part - 11)
4	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / Domestic Waste	Phosphate	IS 3025 (Part - 31)
5	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / Domestic Waste	Temperature	IS 3025 (Part - 9)
6	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / Domestic Waste	Total Suspended Solids	IS 3025 (Part - 17)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	APHA 23rd Edition, 5220-B
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Flouride	APHA 23rd Edition, 4500-F-D
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Hexavalent Chromium	APHA 23rd Edition, 3500-Cr-B
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Hexavalent Chromium	IS 3025 (Part - 52)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron	APHA 23rd Edition, 3500-Fe-B
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	APHA 23rd Edition, 4500-H+B
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphate	APHA 23rd Edition, 4500-PO4-D
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Temperature	APHA 23rd Edition, 2550
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	APHA 23rd Edition, 2540-D
16	CHEMICAL- WATER	Drinking Water	Calcium	APHA 23rd Edition, 3500-Ca-B
17	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part - 40)
18	CHEMICAL- WATER	Drinking Water	Chloride	APHA 23rd Edition, 4500-Cl-B
19	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part - 32)
20	CHEMICAL- WATER	Drinking Water	Fluoride	APHA 23d Edition, 4500-F-D

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21	CHEMICAL- WATER	Drinking Water	Iron	APHA 23rd Edition, 3500-Fe-B
22	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part - 53)
23	CHEMICAL- WATER	Drinking Water	Magnesium	APHA 23rd Edition, 3500-Mg-B
24	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part - 46)
25	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Edition, 4500-H+B
26	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part - 11)
27	CHEMICAL- WATER	Drinking Water	Sulphate	APHA 23rd Edition, 4500-SO4-E
28	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part - 24)
29	CHEMICAL- WATER	Drinking Water	Temperature	APHA 23rd Edition, 2550-B
30	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (Part - 9)
31	CHEMICAL- WATER	Drinking Water	Total Alkalinity	APHA 23rd Edition, 2320-A
32	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS 3025 (Part - 23)
33	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Edition, 2540-C
34	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part - 16)
35	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 23rd Edition, 2340-C
36	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 (Part - 21)
37	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Edition, 3130-B
38	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part - 10)
39	CHEMICAL- WATER	Gound Water	Alkalinity	IS 3025 (Part - 23)
40	CHEMICAL- WATER	Ground Water	Alkalinity	APHA 23rd Edition, 2320-A
41	CHEMICAL- WATER	Ground Water	Calcium	APHA 23rd Edition, 3500-Ca-B
42	CHEMICAL- WATER	Ground Water	Calcium	IS 3025 (Part - 40)
43	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	APHA 23rd Edition, 5220-B
44	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	IS 3025 (Part - 58)
45	CHEMICAL- WATER	Ground Water	Chloride	APHA 23rd Edition, 4500-Cl-B
46	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part - 32)
47	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23d Edition, 4500-F-D
48	CHEMICAL- WATER	Ground Water	Hexavalent Chromium	APHA 23rd Edition, 3500-Mg-B
49	CHEMICAL- WATER	Ground Water	Hexavalent Chromium	IS 3025 (Part - 52)
50	CHEMICAL- WATER	Ground Water	Iron	APHA 23rd Edition, 3500-Fe-B

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51	CHEMICAL- WATER	Ground Water	Iron	IS 3025 (Part - 53)
52	CHEMICAL- WATER	Ground Water	Magnesium	APHA 23rd Edition, 3500-Mg-B
53	CHEMICAL- WATER	Ground Water	Magnesium	IS 3025 (Part - 46)
54	CHEMICAL- WATER	Ground Water	Nitrite	APHA 23rd Edition, 4500-NO2-B
55	CHEMICAL- WATER	Ground Water	Nitrite	IS 3025 (Part - 34)
56	CHEMICAL- WATER	Ground Water	pH	APHA 23rd Edition, 4500-H+B
57	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part - 11)
58	CHEMICAL- WATER	Ground Water	Potassium	APHA 23rd Edition, 3500-K-B
59	CHEMICAL- WATER	Ground Water	Potassium	IS 3025 (Part - 45)
60	CHEMICAL- WATER	Ground Water	Sodium	APHA 23rd Edition, 3500-Na-B
61	CHEMICAL- WATER	Ground Water	Sodium	IS 3025 (Part - 45)
62	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23rd Edition, 4500-SO4-E
63	CHEMICAL- WATER	Ground Water	Sulphate	IS 3025 (Part - 24)
64	CHEMICAL- WATER	Ground Water	Temperature	APHA 23rd Edition, 2550-B
65	CHEMICAL- WATER	Ground Water	Temperature	IS 3025 (Part - 9)
66	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rd Edition, 2540-C
67	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part - 16)
68	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 23rd Edition, 2340-C
69	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025 (Part - 21)
70	CHEMICAL- WATER	Ground Water	Turbidity	APHA 23rd Edition, 3130-B
71	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part - 10)
72	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	APHA 23rd Edition, 2320-A
73	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	IS 3025 (Part - 23)
74	CHEMICAL- WATER	Packaged Drinking Water	Calcium	APHA 23rd Edition, 3500-Ca-B
75	CHEMICAL- WATER	Packaged Drinking Water	Calcium	IS 3025 (Part - 40)
76	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA 23rd Edition, 4500-Cl-B
77	CHEMICAL- WATER	Packaged Drinking Water	Chloride	IS 3025 (Part - 32)
78	CHEMICAL- WATER	Packaged Drinking Water	Fluoride	APHA 23d Edition, 4500-F-D
79	CHEMICAL- WATER	Packaged Drinking Water	Iron	APHA 23rd Edition, 3500-Fe-B
80	CHEMICAL- WATER	Packaged Drinking Water	Iron	IS 3025 (Part - 53)

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81	CHEMICAL- WATER	Packaged Drinking Water	Magnesium	APHA 23rd Edition, 3500-Mg-B
82	CHEMICAL- WATER	Packaged Drinking Water	Magnesium	IS 3025 (Part - 46)
83	CHEMICAL- WATER	Packaged Drinking Water	Nitrite	IS 3025 (Part - 34)
84	CHEMICAL- WATER	Packaged Drinking Water	pH	APHA 23rd Edition, 4500-H+B
85	CHEMICAL- WATER	Packaged Drinking Water	pH	IS 3025 (Part - 11)
86	CHEMICAL- WATER	Packaged Drinking Water	Sodium	APHA 23rd Edition, 3500-Na-B
87	CHEMICAL- WATER	Packaged Drinking Water	Sodium	IS 3025 (Part - 45)
88	CHEMICAL- WATER	Packaged Drinking Water	Sulphate	APHA 23rd Edition, 4500-SO4-E
89	CHEMICAL- WATER	Packaged Drinking Water	Sulphate	IS 3025 (Part - 24)
90	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	APHA 23rd Edition, 2540-C
91	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	IS 3025 (Part - 16)
92	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	APHA 23rd Edition, 2540-C
93	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	IS 3025 (Part - 21)
94	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	APHA 23rd Edition, 3130-B
95	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	IS 3025 (Part - 10)
96	CHEMICAL- WATER	Surface Water	Alkalinity	APHA 23rd Edition, 2320-A
97	CHEMICAL- WATER	Surface Water	Alkalinity	IS 3025 (Part - 23)
98	CHEMICAL- WATER	Surface Water	Calcium	APHA 23rd Edition, 3500-Ca-B
99	CHEMICAL- WATER	Surface Water	Calcium	IS 3025 (Part - 40)
100	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand	APHA 23rd Edition, 5220-B
101	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand	IS 3025 (Part - 58)
102	CHEMICAL- WATER	Surface Water	Chloride	APHA 23rd Edition, 4500-Cl-B
103	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part - 32)
104	CHEMICAL- WATER	Surface Water	Fluoride	APHA 23d Edition, 4500-F-D
105	CHEMICAL- WATER	Surface Water	Hexavalent Chromium	APHA 23rd Edition, 3500-Cr-B
106	CHEMICAL- WATER	Surface Water	Hexavalent Chromium	IS 3025 (Part - 52)
107	CHEMICAL- WATER	Surface Water	Iron	APHA 23rd Edition, 3500-Fe-B
108	CHEMICAL- WATER	Surface Water	Iron	IS 3025 (Part - 53)
109	CHEMICAL- WATER	Surface Water	Magnesium	APHA 23rd Edition, 3500-Mg-B
110	CHEMICAL- WATER	Surface Water	Magnesium	IS 3025 (Part - 46)

SCOPE OF ACCREDITATION

Laboratory Name :	GEMS PROJECTS PRIVATE LIMITED (ENVIRONMENTAL LABORATORY DIVISION), HARHI ROAD, VILLAGE KATARPA, PISKA NAGRI, RANCHI, JHARKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-11067	**Page No**	5 of 5
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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
111	CHEMICAL- WATER	Surface Water	Nitrite	APHA 23rd Edition, 4500-NO2-B
112	CHEMICAL- WATER	Surface Water	Nitrite	IS 3025 (Part - 34)
113	CHEMICAL- WATER	Surface Water	pH	APHA 23rd Edition, 4500-H+B
114	CHEMICAL- WATER	Surface Water	pH	IS 3025 (Part - 11)
115	CHEMICAL- WATER	Surface Water	Phosphate	APHA 23rd Edition, 4500-PO4-D
116	CHEMICAL- WATER	Surface Water	Phosphate	IS 3025 (Part - 31)
117	CHEMICAL- WATER	Surface Water	Potassium	APHA 23rd Edition, 3500-K-B
118	CHEMICAL- WATER	Surface Water	Potassium	IS 3025 (Part - 45)
119	CHEMICAL- WATER	Surface Water	Sodium	APHA 23rd Edition, 3500-Na-B
120	CHEMICAL- WATER	Surface Water	Sodium	IS 3025 (Part - 45)
121	CHEMICAL- WATER	Surface Water	Sulphate	APHA 23rd Edition, 4500-SO4
122	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part - 24)
123	CHEMICAL- WATER	Surface Water	Temperature	APHA 23rd Edition, 2550-B
124	CHEMICAL- WATER	Surface Water	Temperature	IS 3025 (Part - 9)
125	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 23rd Edition, 2540-C
126	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part - 16)
127	CHEMICAL- WATER	Surface Water	Total Hardness	APHA 23rd Edition, 2340-C
128	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 (Part - 21)
129	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Edition, 2540-D
130	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 (Part - 17)
131	CHEMICAL- WATER	Surface Water	Turbidity	APHA 23rd Edition, 3130-B
132	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part - 10)

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.