National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YUGANTAR BHARATI ANALYTICAL AND ENVIRONMENTAL ENGINEERING LABORATORY, PLOT NO. 551, KHATA NO 62, SIDROUL, P.O. NAMKUM, P.S. NAMKUM, RANCHI, JHARKHAND, INDIA

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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	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Industrial & Domestic effluent	Escherichia coli	APHA 9221 F
2	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Industrial & Domestic effluent	Faecal Coliforms	APHA 9221 E
3	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Industrial & Domestic effluent	Faecal Streptococci/Enterococci	APHA 9230 B
4	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Industrial & Domestic effluent	Heterotrophic Plate Count	APHA 9215 B
5	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Industrial & Domestic effluent	Total Coliforms	APHA 9221 B
6	BIOLOGICAL- WATER	Drinking Water, Surface water, Groundwater	Escherichia coli	APHA 9221 F
7	BIOLOGICAL- WATER	Drinking Water, Surface water, Groundwater	Faecal Coliforms	APHA 9221 E
8	BIOLOGICAL- WATER	Drinking Water, Surface water, Groundwater	Faecal Streptococci/Enterococci	APHA 9230 B
9	BIOLOGICAL- WATER	Drinking Water, Surface water, Groundwater	Heterotrophic Plate Count	APHA 9215 B
10	BIOLOGICAL- WATER	Drinking Water, Surface water, Groundwater	Total Coliforms	APHA 9221 B:
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia (NH3)	IS 5182 Part 25
12	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic as As	USEPA IO 3.2
13	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Fine Particulate Matter (PM 2.5)	IS 5182 Part 24
14	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead (Pb)	IS 5182 Part-22
15	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel as Ni	IS 5182 Part 26
16	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen	IS 5182 (Part-06)
17	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone as O3	IS 5182 (Part- 09)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (TSPM, PM10)	IS 5182 Part-23

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19	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	SPM (Supended Particulate Matter)	IS 5182 Part 4
20	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur dioxide (SO2)	IS 5182 (Part-02)
21	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Ambient Noise Leq dB (A)	IS 9989
22	CHEMICAL- ATMOSPHERIC POLLUTION	DG set	Noise level	ISO 8528
23	CHEMICAL- ATMOSPHERIC POLLUTION	Indoor Air Quality	Oxides of Nitrogen	APHA Air Sampling & Analysis) 817 3rd edition
24	CHEMICAL- ATMOSPHERIC POLLUTION	Indoor Air Quality	PM (Particulate Matter)	OSHA / NIOSH 0501, 5th Edition
25	CHEMICAL- ATMOSPHERIC POLLUTION	Indoor Air Quality	Sulphur dioxide (SO2)	APHA Air Sampling & Analysis) 704 A 3rd edition
26	CHEMICAL- ATMOSPHERIC POLLUTION	Source/Machine Noise	Noise Level	IS 4758
27	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Sources/ Stack/ Chimney Emission	Carbon dioxide (CO2)	IS 13270:1992
28	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Sources/ Stack/ Chimney Emission	Carbon Monoxide (CO)	IS 13270 :1992
29	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Sources/ Stack/ Chimney Emission	Oxides of Nitrogen (NO2)	IS 11255 Part-7
30	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Sources/ Stack/ Chimney Emission	Oxygen (O2)	IS 13270:1992
31	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Sources/ Stack/ Chimney Emission	Particulate Matter (PM)	IS 11255 Part-(1):1985
32	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Sources/ Stack/ Chimney Emission	Sulphur dioxide (SO2)	IS 11255 Part-2 1985
33	CHEMICAL- ATMOSPHERIC POLLUTION	Work Zone Air	Oxides of Nitrogen	IS 9679
34	CHEMICAL- ATMOSPHERIC POLLUTION	Work Zone Air	Sulphur dioxide (SO2)	IS 9679
35	CHEMICAL- ATMOSPHERIC POLLUTION	Work Zone Air	Suspended Particulate Matter	IS 9679
36	CHEMICAL- ATMOSPHERIC POLLUTION	Work Zone Noise	Noise Level	IS 9989
37	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Arsenic (As)	APHA 3114 B

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	BOD	IS 3025 (Part-44)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Cadmium (Cd)	APHA 3111 B
40	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Chromium	APHA 3111 B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Cobalt (Co)	APHA 3111 B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	COD	IS 3025 (Part-58)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Copper (Cu)	APHA 3111 B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Dissolved Oxygen	IS 3025 (Part-38)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Lead (Pb)	APHA 3111 B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Mercury (Hg)	APHA 3112 B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Nickel (Ni)	APHA 3111 B
48	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Nitrite Nitrogen	IS 3025 (Part-34)
49	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Oil & Grease	IS 3025 (Part-39)
50	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Potassium (K)	APHA 3111 B
51	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Selenium (Se)	APHA 3111 B
52	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Sodium (Na)	APHA 3111 B
53	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial & Domestic Effluent	Sulphate	IS 3025 (Part-24)
54	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Chloride	IS 3025 (Part-32)
55	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Chlorine Residual	IS 3025 (Part-26)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Fluoride (F)	APHA 4500 F (C)

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Iron (Fe)	APHA 3111 B
58	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Nitrate (NO3)	APHA 4500 NO3 (B)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	pH value	IS 3025 (Part-11)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Total Dissolved Solid	IS 3025 (Part-16)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Total Solid	IS 3025 (Part-15)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Total Suspended Solid	IS 3025 (Part-17)
63	CHEMICAL- POLLUTION & ENVIRONMENT	Industrial / domestic effluent	Zinc (Zn)	APHA 3111 B
64	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Cadmium as Cd	APHA 3111 B
65	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Chloride	YBAEEL/SOP Issue no.1
66	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Chromium as Cr	APHA 3111 B
67	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Copper as Cu	APHA 3111 B
68	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Electrical Conductivity	IS 14767
69	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Exchangeable Calcium	YBAEEL/SOP/Soil/01 Issue 01
70	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Exchangeable Magnesium	YBAEEL/SOP/Soil/01 Issue 01
71	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Exchangeable Potassium	IS 2720 {Part-24)
72	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Exchangeable Sodium	IS 2720 (Part 24)
73	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Iron as Fe	APHA 3111 B
74	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Lead as Pb	APHA 3111 B
75	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Moisture	IS 2720 (Part-02)

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76	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Nickel as Ni	APHA 3111 B
77	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Organic Matter	IS 2720 Part 22
78	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	pH Value	IS 2720 (Part-26)
79	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Phosphorous	YBAEEL/SOP/Soil/01/00
80	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Sulphate	IS 2720 (Part 27)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	TKN	YBAEEL/SOP/Soil/01/00
82	CHEMICAL- POLLUTION & ENVIRONMENT	Soil & Waste (Sludge, Slurry)	Zinc as Zn	APHA 3111 B
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/ Sewage)	Phenols	IS 3025 Part 43 1992
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (Effluents/ Sewage)	Temperature	IS 3025 Part 9
85	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Arsenic (As)	APHA 3114 B
86	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Cadmium (Cd)	APHA 3111 B
87	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Chromium (Cr)	APHA 3111 B
88	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Cobalt (Co)	APHA 3111 B
89	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Copper (Cu)	APHA 3111 B
90	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Iron (Fe)	APHA 3111 B
91	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Lead (Pb)	APHA 3111 B
92	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Mercury (Hg)	APHA 3112 B
93	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Nickel (Ni)	APHA 3111 B
94	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Selenium	APHA 3111 B

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95	CHEMICAL- RESIDUES IN WATER	Drinking Water, Package water, Groundwater, Surface Water	Zinc (Zn)	APHA 3111 B
96	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Acidity	IS 3025 Part-22
97	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Alkalinity	IS 3025 Part-23
98	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	BOD	IS 3025 Part-44
99	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Calcium (Ca)	IS 3025 Part-40
100	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Chloride	IS 3025 Part-32
101	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Chlorine Residual	IS 3025 Part-26
102	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	COD	IS 3025 Part-58
103	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Colour	IS 3025 Part 4
104	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Conductivity	IS 3025 Part 14
105	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Dissolved Oxygen	IS 3025 Part-38
106	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Fluoride (F-)	APHA 4500 F C
107	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Magnesium (Mg)	APHA 3500 Mg B
108	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Nitrate (NO3)	APHA 4500 NO3 B
109	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Nitrite Nitrogen	IS 3025 Part-34
110	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Oil & Grease	IS 3025 Part-39
111	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	pH value	IS 3025 Part 11
112	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Potassium (K)	APHA 3111 B
113	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Sodium (Na)	APHA 3111 B

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114	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Sulphate	IS 3025 Part-24
115	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	TDS	IS 3025 Part-16
116	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Total Hardness	IS 3025 Part-21
117	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Total Solid	IS 3025 Part-15
118	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	TSS	IS 3025 Part-17
119	CHEMICAL- WATER	Drinking Water, Package water, Groundwater, Surface Water	Turbidity	IS 3025 Part-10