National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 1 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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	Air	Staphylococcus aureus	ISO 18593; IS 5887(Part 2) :
2	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Air	Staphylococcus aureus	USP 32, NF-27, Chapter 1116; IS 5887 (Part 2)
3	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Air	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	ISO 18593: IS 5402
4	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Air	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	USP 32, NF-27, Chapter 1116; IS 5402
5	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Air	Yeast & Mould	ISO 18593: IS 5403
6	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Air	Yeast & Mould	USP 32, NF-27, Chapter 1116; IS 5403
7	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/ Waste water	E. coli	IS 1622
8	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	E. coli	APHA,23rdEd, 9221-B,E&G,9-69-80
9	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	E. coli (MPN)	APHA,23rdEd, 9221-B, E&G,9-69-80
10	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	E. coli (MPN)	IS 1622
11	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Faecal coliforms	APHA,23rdEd. 9221 B9-69 & E,9-77
12	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Faecal coliforms	IS 1622
13	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Salmonella spp.	APHA,23rdEd, 9260-B,9-152

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 2 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
14	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Salmonella spp.	IS 15185
15	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Staphylococcus aureus	APHA,23rdEd, 9213-B,9-46
16	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Staphylococcus aureus	IS 5887 (Part 2)
17	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	APHA,23rdEd. 9215-B-9-56
18	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	IS 1622
19	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Total coliforms	APHA, 23rdEd, 9221-B,9-69
20	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Effluents/Waste water	Total coliforms	IS 1622
21	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Surface Swab	Staphylococcus aureus	IS 5887 (Part 2)
22	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Surface Swab	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	IS 5402
23	BIOLOGICAL-ENVIRONMENT AND POLLUTION	Surface Swab	Yeast & Mould	IS 5403
24	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	E. coli (MPN)	IS 5887 (Part 1)
25	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	Coliform Count	IS 5401 (Part 1)
26	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	Coliform Count	IS 5401 (Part 2)
27	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	E. coli	IS 5887 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 3 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
28	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	E. coli (Thermotolerant bacteria)	IS 5887 (Part 1)
29	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	Salmonella spp.	IS 5887 (Part 3)
30	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	Staphylococcus aureus (coagulase positive)	IS 5887 (Part 2)
31	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	Staphylococcus aureus (coagulase positive)	IS 5887 (Part 8/ Sec.1)
32	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other Specified Food Items cooked food, Ready to eat variants	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	IS 5402
33	BIOLOGICAL- WATER	Drinking Water	E.coli	APHA,23ndEd. 9221-D,9-75, E-9-77 & G-9-80 P-A Coliform test:
34	BIOLOGICAL- WATER	Drinking Water	E. coli	APHA,23rdEd. 9221-B, E&G,9-69-80
35	BIOLOGICAL- WATER	Drinking Water	E. coli	IS 1622
36	BIOLOGICAL- WATER	Drinking Water	E. coli (MPN)	APHA,23rdEd. 9221-B, E&G,9-69-80
37	BIOLOGICAL- WATER	Drinking Water	E. coli (MPN)	IS 1622
38	BIOLOGICAL- WATER	Drinking Water	E.coli and Coliform bacteria	IS 15185
39	BIOLOGICAL- WATER	Drinking Water	Faecal coliforms	APHA,23rd Ed. 9221-D & E,9-75, 9-77, P-A Coliform test
40	BIOLOGICAL- WATER	Drinking Water	Faecal coliforms	APHA,23rdEd. 9221 B-9-69 & E,9-77
41	BIOLOGICAL- WATER	Drinking Water	Faecal coliforms	IS 1622
42	BIOLOGICAL- WATER	Drinking Water	Salmonella spp.	APHA,23rdEd. 9260-B,9-152
43	BIOLOGICAL- WATER	Drinking Water	Salmonella spp.	IS 15187
44	BIOLOGICAL- WATER	Drinking Water	Staphylococcus aureus	APHA,23rdEd. 9213-B,9-46
45	BIOLOGICAL- WATER	Drinking Water	Staphylococcus aureus	IS 5887 (Part 2)
46	BIOLOGICAL- WATER	Drinking Water	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	APHA,23rdEd. 9215-B-9-56

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 4 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
47	BIOLOGICAL- WATER	Drinking Water	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	IS 1622
48	BIOLOGICAL- WATER	Drinking Water	Total coliforms	APHA,23rdEd. 9221-B,9-69
49	BIOLOGICAL- WATER	Drinking Water	Total coliforms	APHA,23rdEd. 9221-D,9-75 P-A Coliform test
50	BIOLOGICAL- WATER	Drinking Water	Total coliforms	IS 1622 : 1981 Ed.2.4 (2003-2005)
51	BIOLOGICAL- WATER	Ground Water/ Surface Water	E. coli (MPN)	APHA,23rdEd. 9221-B,E&G,9-69-80
52	BIOLOGICAL- WATER	Ground Water/ Surface Water	Faecal coliforms	APHA,23rdEd. 9221 B-9-69 & E,9-77
53	BIOLOGICAL- WATER	Ground Water/ Surface Water	Faecal coliforms	IS 1622
54	BIOLOGICAL- WATER	Ground Water/ Surface Water	Salmonella spp.	IS 15187
55	BIOLOGICAL- WATER	Ground Water/ Surface Water	Staphylococcus aureus	IS 5887 (Part 2)
56	BIOLOGICAL- WATER	Ground Water/ Surface Water	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	APHA,23rdEd.9215-B-9-56
57	BIOLOGICAL- WATER	Ground Water/ Surface Water	Total Bacterial Count/ Standard Plate Count/ Total Viable Count/ Total Plate Count	IS 1622
58	BIOLOGICAL- WATER	Ground Water/ Surface Water	Total coliforms	APHA,23rdEd. 9221-B,9-69
59	BIOLOGICAL- WATER	Ground Water/ Surface Water	Total coliforms	IS 1622
60	BIOLOGICAL- WATER	Ground Water/Surface Water	E. coli	APHA,23rdEd. 9221-B,E&G,9-69-80
61	BIOLOGICAL- WATER	Ground Water/Surface Water	E. coli (MPN)	IS 1622
62	BIOLOGICAL- WATER	Ground Water/Surface Water	E. coli	IS 1622
63	BIOLOGICAL- WATER	Ground Water/Surface Water	E.coli	APHA,23ndEd. 9221-D,9-75, E-9-77 & G-9-80 P-A Coliform test:
64	BIOLOGICAL- WATER	Ground Water/Surface Water	Faecal coliforms	APHA,23rdEd.9221-D & E,9-75,9-77, P-A Coliform test
65	BIOLOGICAL- WATER	Ground Water/Surface Water	Salmonella spp.	APHA,23rdEd. 9260-B,9-152
66	BIOLOGICAL- WATER	Ground Water/Surface Water	Staphylococcus aureus	APHA,23rdEd. 9213-B,9-46
67	BIOLOGICAL- WATER	Ground Water/Surface Water	Total coliforms	APHA,23ndEd 9221-D,9-75 P-A Coliform test

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	5 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
68	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ammonia	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 35-39
69	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ammonia	Methods of Air Sampling and analysis 3rd Edition, Method No 401, Page No. 379, “Indophenol Method”
70	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Arsenic	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 48-55.
71	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic	USEPA/625/R-96/010a Compendium Method IO-3.1 & 3.4
72	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Benzene	IS 5182 (Part 11)
73	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Benzo(a)Pyrene (BaP) Particulate Phase only	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No. 40-47
74	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Benzo(a)Pyrene (BaP) Particulate Phase only	IS 5182 (Part 12)
75	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	CPCB guidelines for the measurement of Ambient Air Pollutants volume – II, page no. 16-22. (NDIR method)
76	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	IS 5182 (Part 10) (NDIR Method)
77	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Chlorine	IS 5182 (Part 19)
78	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Hydrogen Sulphide	IS 5182 (Part 7)
79	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Lead	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 48-55.
80	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Lead	IS 5182 (Part 22) (AAS method)
81	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead	USEPA/625/R-96/010a Compendium Method IO-3.1 & 3.4

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 6 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
82	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Mercury	Sampling & Analysis for Atmosphere Mercury, Ministry of Environment Japan
83	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Nickel	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 48-55.
84	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel	USEPA/625/R-96/010a Compendium Method IO-3.1 & 3.4
85	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Nitrogen Dioxide	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 7-10.
86	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Nitrogen Dioxide	IS 5182 (Part 6)
87	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ozone	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 31 – 34.
88	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ozone	Methods of Air Sampling and analysis 3rd Edition, Method No 819, Page No. 605 and Method 411 Page No. 403. "Determination of Ozone in Air"
89	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (Size less than 10 µm) or PM10	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No. 11-14.
90	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (Size less than 10 µm) or PM10	IS 5182 (Part23)
91	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (Size less than 2.5 µm) or PM2.5	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No.15-30
92	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (Size less than 2.5 µm) or PM2.5	IS 5182 (part 24)
93	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No1-6.

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 7 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
94	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide	IS 5182 (Part 2)
95	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Suspended Particulate Matter	IS 5182 (Part 4)
96	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Levels (Excluding vibration)	Noise level measurement	CPCB Protocol for Ambient level Noise Monitoring
97	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Levels (Excluding vibration)	Noise Level Measurement	IS 9876
98	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Ammonia	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No. 35 – 39.
99	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Ammonia	Methods of Air Sampling and analysis 3rd Edition, Method No 401, Page No. 379, “Indophenol Method”
100	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Carbon Monoxide (CO)	CPCB guidelines for the measurement of Ambient Air Pollutants volume – II,page no. 16-22. (NDIR method)
101	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Carbon Monoxide CO	IS 5182 (Part 10)
102	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Lead	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 48-55
103	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Lead	IS 5182 (Part 22) (AAS Method)
104	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Lead	USEPA/625/R-96/010a Compendium Method IO-3.1 & 3.4
105	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Nitrogen Dioxide	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No 7-10.
106	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Nitrogen Dioxide	IS 5182 (Part 6)
107	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Particulate Matter (Size less than 10 µm) or PM10	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No. 11-14.

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	8 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
108	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Particulate Matter (Size less than 10 µm) or PM10	IS 5182 (Part 4)
109	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Particulate Matter (Size less than 2.5 µm) or PM2.5	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No.15-30.
110	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Particulate Matter (Size less than 2.5 µm) or PM2.5	IS 5182 (Part 24)
111	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Sulphur Dioxide	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, Page No1-6.
112	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Sulphur Dioxide	IS 5182 (Part 2)
113	CHEMICAL- ATMOSPHERIC POLLUTION	Fugitive emission	Suspended Particulate Matter	IS 5182 (Part 4)
114	CHEMICAL- ATMOSPHERIC POLLUTION	Source Noise (Excluding Vibration)	Source Noise Measurement	IS 9876
115	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide	IS 13270 (ORSAT method)
116	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide	USEPA Method 3A Analyzer Method
117	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide	IS 13270 (ORSAT method)
118	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide	IS 5182 (Part 10) (NDIR) method)
119	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide	USEPA Method 10 Analyzer method
120	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Chlorine	IS 5182 (Part-19)
121	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Flue Gas Quantity	IS 11255 (Part-3)
122	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Flue gas Temperature	IS 11255 (Part-3)
123	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Flue gas velocity	IS 11255 (Part-3)
124	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Hydrogen Sulphide	IS 11255 (Part-4)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 9 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
125	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Lead	CPCB Guidelines for the Measurement of Source Emission Monitoring LATS/80/2013-14, Chapter 5 and 6
126	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Lead	IS 5182 (Part 22)
127	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Mercury	CPCB Guidelines for the Measurement of Source Emission Monitoring LATS/80/2013-14, Chapter 5 and 6, page No. 54 -84.
128	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Mercury	USEPA Method No 29
129	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Moisture	IS 11255 (Part-3)
130	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen	USEPA Method 7E Analyzer method
131	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen	IS 11255 (Part 7)
132	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen	IS 13270
133	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen	USEPA Method 3A Analyzer method
134	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	CPCB (Air), Emission Regulations Part 3
135	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
136	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide	CPCB (Air), Emission Regulations Part 3
137	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide	IS 11255 (Part 2)
138	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide	USEPA Method 6C Analyzer method
139	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Contents	IS 9103
140	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content of Liquid Admixture	IS 9103
141	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 10 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
142	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
143	CHEMICAL- BUILDING MATERIAL	Admixture	Soluble Chlorides	IS 6925
144	CHEMICAL- BUILDING MATERIAL	Fly ash	Al2O3	IS 1727
145	CHEMICAL- BUILDING MATERIAL	Fly ash	CaO	IS 1727
146	CHEMICAL- BUILDING MATERIAL	Fly ash	Fe2O3	IS:1727
147	CHEMICAL- BUILDING MATERIAL	Fly ash	K2O	ASTM-C-114
148	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727
149	CHEMICAL- BUILDING MATERIAL	Fly ash	MgO	IS 1727
150	CHEMICAL- BUILDING MATERIAL	Fly ash	Mn3O4	IS 1727
151	CHEMICAL- BUILDING MATERIAL	Fly ash	Na2O	ASTM-C-114
152	CHEMICAL- BUILDING MATERIAL	Fly ash	P2O5	ASTM-C-114
153	CHEMICAL- BUILDING MATERIAL	Fly ash	SiO2	IS 1727
154	CHEMICAL- BUILDING MATERIAL	Fly ash	SO3	IS 1727
155	CHEMICAL- BUILDING MATERIAL	Fly ash	TiO2	ASTM-C-114
156	CHEMICAL- BUILDING MATERIAL	OPC	Aluminum Oxide (Al2O3)	IS: 4032
157	CHEMICAL- BUILDING MATERIAL	OPC	Calcium Oxide	IS: 4032 Sec.4.7.2
158	CHEMICAL- BUILDING MATERIAL	OPC	Ferric Oxide (Fe2O3)	IS: 4032 Sec 4.5.1
159	CHEMICAL- BUILDING MATERIAL	OPC	Insoluble Residue	IS 4032 Sec.4.3
160	CHEMICAL- BUILDING MATERIAL	OPC	Loss on Ignition	IS: 4032 Sec 4.2

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7487
Page No	11 of 52
Validity	29/06/2021 to 28/06/2023
Last Amended on	26/01/2022

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
161	CHEMICAL- BUILDING MATERIAL	OPC	Magnesium Oxide	IS: 4032 Sec4.8.1
162	CHEMICAL- BUILDING MATERIAL	OPC	Silica (SiO2)	IS: 4032 Sec 4.3
163	CHEMICAL- BUILDING MATERIAL	OPC	SO3	IS:4032 Sec. 4.3:
164	CHEMICAL- BUILDING MATERIAL	PPC	Aluminum Oxide (Al2O3)	IS: 4032
165	CHEMICAL- BUILDING MATERIAL	PPC	Calcium Oxide	IS: 4032 Sec.4.7.2
166	CHEMICAL- BUILDING MATERIAL	PPC	Ferric Oxide (Fe2O3)	IS: 4032 Sec 4.5.1
167	CHEMICAL- BUILDING MATERIAL	PPC	Insoluble residue	IS 4032 Sec.4.3
168	CHEMICAL- BUILDING MATERIAL	PPC	Loss on Ignition	IS: 4032 Sec 4.2
169	CHEMICAL- BUILDING MATERIAL	PPC	Magnesium Oxide	IS: 4032 Sec4.8.1
170	CHEMICAL- BUILDING MATERIAL	PPC	Silica (SiO2)	IS: 4032 Sec 4.3
171	CHEMICAL- BUILDING MATERIAL	PPC	SO3	IS:4032 Sec. 4.3
172	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	(All categories of food products including Fortified foods, Instant Mixes and Ready to eat)	Total Ash	FSSAI Lab Manual, Cereal and Cereal products(8.2)
173	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	All categories of food products including Fortified foods, Instant Mixes and Ready to eat)	Moisture	FSSAI Lab Manual, Cereal & Cereal Products (2,8.1,16.1)
174	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & dairy products	Carbohydrate	USFDA Title 21 , Food and Drugs, April
175	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & dairy products	Energy Value (Calories)	Codex Alimentarius, 3.31
176	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & dairy products	Fat	FSSAI Lab Manual 1, Milk and Milk Products 1.3.4.2, Rose Gottlieb Method
177	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & dairy products	Moisture	FSSAI Lab Manual 1, Milk and Milk Products,3.2, Gravimetric method

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7487
Page No	12 of 52
Validity	29/06/2021 to 28/06/2023
Last Amended on	26/01/2022

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
178	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & dairy products	Protein	IS 7219
179	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & dairy products	Sugar	FSSAI lab Manual 1,Milk and Milk Products 9.4,Lane Eynon method
180	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Cook/ Ready to Eat variants	Carbohydrade	USFDA Title 21, Food and drugs
181	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Cook/ Ready to Eat variants	Energy value (Calories)	Codex Alimentarius 3.3.1
182	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Cook/ Ready to Eat variants	Fat	IS 15271
183	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Cook/ Ready to Eat variants	Protein	IS 7219
184	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Cook/ Ready to Eat variants	Sugar	IS 6287
185	CHEMICAL- ORES & MINERALS	Dolomite & limestone	Al2O3	IS 1760 (Part-1)
186	CHEMICAL- ORES & MINERALS	Dolomite & limestone	CaO	IS 1760 (Part-1)
187	CHEMICAL- ORES & MINERALS	Dolomite & limestone	Fe2O3	IS 1760 (Part 1)
188	CHEMICAL- ORES & MINERALS	Dolomite & limestone	K2O	IS 1760 (Part-1)
189	CHEMICAL- ORES & MINERALS	Dolomite & limestone	Loss on Ignition	IS 1760 (Part-1)
190	CHEMICAL- ORES & MINERALS	Dolomite & limestone	MgO	IS 1760(Part-1)
191	CHEMICAL- ORES & MINERALS	Dolomite & limestone	Moisture	IS 1760 (Part 1)
192	CHEMICAL- ORES & MINERALS	Dolomite & limestone	Na2O	IS 1760 (Part-1)
193	CHEMICAL- ORES & MINERALS	Dolomite & limestone	SiO2	IS 1760 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7487
Page No	13 of 52
Validity	29/06/2021 to 28/06/2023
Last Amended on	26/01/2022

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
194	CHEMICAL- ORES & MINERALS	Dolomite & limestone	Total Acid insoluble	IS 1760 (Part-1)
195	CHEMICAL- ORES & MINERALS	Iron ores	Al2O3	IS 1493
196	CHEMICAL- ORES & MINERALS	Iron ores	Iron	IS 1493
197	CHEMICAL- ORES & MINERALS	Iron ores	Iron as Fe2O3	IS 1493
198	CHEMICAL- ORES & MINERALS	Iron ores	K2O	IS 1493
199	CHEMICAL- ORES & MINERALS	Iron ores	Loss on Ignition	IS 1493
200	CHEMICAL- ORES & MINERALS	Iron ores	Manganese	IS 1493
201	CHEMICAL- ORES & MINERALS	Iron ores	Moisture	IS 1493
202	CHEMICAL- ORES & MINERALS	Iron ores	Na2O	IS 1493
203	CHEMICAL- ORES & MINERALS	Iron ores	P2O5	IS 1493
204	CHEMICAL- ORES & MINERALS	Iron ores	SiO2	IS 1493
205	CHEMICAL- ORES & MINERALS	Iron ores	TiO2	IS 1493
206	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Al2O3	IS 1760 (Part 3)
207	CHEMICAL- ORES & MINERALS	Limestone & dolomite	CaO	IS 1760 (Part 3)
208	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Fe2O3	IS 1760 (Part 3)
209	CHEMICAL- ORES & MINERALS	Limestone & dolomite	K2O	IS 1760 (Part 3)
210	CHEMICAL- ORES & MINERALS	Limestone & dolomite	MgO	IS 1760 (Part 3)
211	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Na2O	IS 1760 (Part 3)
212	CHEMICAL- ORES & MINERALS	Limestone & dolomite	SiO2	IS 1760 (Part 2)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 14 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
213	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Total Acid Insoluble	IS 1760 (Part 6)
214	CHEMICAL- ORES & MINERALS	Manganese ore	Fe2O3	IS 1473
215	CHEMICAL- ORES & MINERALS	Manganese ores	Al2O3	IS 1473
216	CHEMICAL- ORES & MINERALS	Manganese ores	K2O	IS 1473
217	CHEMICAL- ORES & MINERALS	Manganese ores	Loss on Ignition	IS 1473
218	CHEMICAL- ORES & MINERALS	Manganese ores	Manganese	IS 1473
219	CHEMICAL- ORES & MINERALS	Manganese ores	Moisture	IS 1473
220	CHEMICAL- ORES & MINERALS	Manganese ores	Na2O	IS 1473
221	CHEMICAL- ORES & MINERALS	Manganese ores	Phosphorus as P	IS 1473
222	CHEMICAL- ORES & MINERALS	Manganese ores	SiO2	IS 1473
223	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Boron	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India ,Sec 17-B page No 115
224	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Copper	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 105
225	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Iron	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India,Sec.4 -17, Page No 105
226	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Manganese	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 105

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 15 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
227	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 89
228	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 89
229	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorus	FAO, Sec. III, 12 – 1, Page No.157.
230	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available zinc	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 105.
231	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Calcium	FAO, Sec. III, 8 - 1, Page No. 115,
232	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Calcium	FAO, Sec. III, 8 - 1, Page No. 115,
233	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Magnesium	FAO, Sec. III, 8 – 1, Page No. 115
234	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Magnesium	FAO, Sec. III, 8 – 1, Page No. 115,
235	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Potassium	FAO, Sec. III, 8 – 1, Page No. 115
236	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Potassium	FAO, Sec. III, 8 – 1, Page No. 115
237	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Sodium	FAO, Sec. III, 8 – 1, Page No. 115
238	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available/ Exchangeable Sodium	FAO, Sec. III, 8 – 1, Page No. 115.
239	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Bulk Density	FAO, Sec. II-I, Page No. 33
240	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation Exchange capacity	FAO, Sec. III, 7 – 2, Page No. 104
241	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	FAO, Sec. III, 5, Page No 85

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	16 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
242	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Grain size (Texture) Analysis % clay	Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India Page No 68
243	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Grain Size (Texture) Analysis % Sand	Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India, Sec 4.-17 Page No 105.
244	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Grain Size (Texture) Analysis % Silt	Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India, Page No 68
245	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Loss on Ignition As Dried	Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India , Page No 84
246	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Loss on Ignition As Received	Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India, Page No 84
247	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture Content	IS 2720 (Part – II)
248	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Carbon	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 83.
249	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	FAO, Sec. III, 1, Page No 65.
250	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Cadmium	US EPA/SW 846 Method 3050B, 7000B Rev. 2
251	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Chromium	US EPA/SW 846 Method 3050B, Rev.02, 7000B
252	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Copper	US EPA/SW 846 Method 3050B, Rev.2, 7000B
253	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Iron	US EPA/SW 846 Method 3050B, Rev.02, 7000B

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 17 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
254	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Lead	US EPA/SW 846 Method 3050B, Rev.02, 7000B
255	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Manganese	US EPA/SW 846 Method 3050B, Rev.02, 7000B
256	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Nickel	US EPA/SW 846 Method 3050B, Rev.02, 7000B,
257	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Phosphorus	Manual for method of water, Soil and Plant analysis WL II ,Page No 16
258	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Zinc	US EPA/SW 846 Method 3050B, Rev.02, 7000B
259	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Acidity	IS 3025 (Part 22)
260	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Ammonical Nitrogen / Ammonia	APHA 23rd Ed. 4500 NH3 – F, 4 -119.
261	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Bicarbonate	IS 3025 (Part 51)
262	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Biochemical Oxygen Demand (BOD) 3 days at 27oC	IS 3025 (Part 44)
263	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Boron	APHA 23rd Ed. 4500 B - B, 4 - 27
264	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Calcium	APHA 23rd Ed, 3500 Ca - B, 3 - 69.
265	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Calcium	IS 3025 (Part 40)
266	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Carbonate	IS 3025 (Part 51)
267	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Magnesium	IS 3025 (Part 46)
268	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Oil & Grease	IS 3025(Part 39) 1991
269	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity	APHA 23rd Ed.2310 - B, 2 – 34.
270	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity (Total, Phenolphthalein & Methyl orange	APHA 23rd Ed., 2320 - B, 2 - 36.
271	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity (Total, Phenolphthalein & Methyl orange)	IS 3025 (Part 23)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 18 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
272	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen / Ammonia	APHA 23rd Ed., 4500 NH3 - B & C, 4-114, & 4 -116.
273	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Anoinic Detergents as MBAS	APHA 23rd 5540- C 5-55
274	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bicarbonate	APHA 23rd Ed., 2320 - B, 2-37 & 4500 CO2 - D, 4 – 38.
275	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Carbonate	APHA 23rd Ed., 2320 – B, 2 - 41 & 4500 CO2 - D, 4 - 38.
276	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 – 18.
277	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloramine	APHA 23rd Ed, 4500-Cl-G 4-72:
278	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA 23rd Ed., 4500 Cl- - B, 4 – 75.
279	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	IS 3025 (Part 32)
280	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chlorine (Residual)	APHA 23rd Ed.,4500 Cl - G, 4 - 72.
281	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chlorine (Residual)	IS 3025 (Part 26)
282	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Colour	IS 3025 (Part 4)
283	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Colour	APHA 23rd Ed.,2120 - B, 2 - 6.
284	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	APHA 23rd Ed.4500-CN, C &E-40
285	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	IS 3025 (Part 27)
286	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	APHA 23rd Ed., 4500 O - B, 4-144 & C, 4 -146.
287	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38)
288	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Electrical Conductivity	APHA 23rd Ed., 2510 - B, 2 - 58
289	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Electrical Conductivity	IS 3025 (Part 14)
290	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90.

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	19 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
291	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hardness (Total)	APHA 23rd Ed., 2340 - C, 2 – 48.
292	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hardness (Total)	IS 3025 (Part 21)
293	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hydrazine	IS 3550
294	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Inorganic solids	IS 3025 (Part 18)
295	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium	APHA 23rd Ed. 2017, 3500 Mg - B, 3 – 86
296	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate	APHA 23rd Ed., 4500 NO3 - E, 4 – 131
297	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate	APHA 23rd Ed.,4500 NO3 – B, 4-127.
298	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite	APHA 23rd Ed, 4500 NO2 - B, 4 – 124.
299	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite	IS 3025 (Part 34)
300	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Odour	IS 3025 (Part 05)
301	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA 23rd Ed. 5520 - B, 5 – 42
302	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Organic solids	IS 3025 (Part 18)
303	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA 23rd Ed., 4500 H+ - B, 4 – 95
304	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	IS 3025 (Part 11)
305	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compound/ Phenol	APHA 23rd Ed. 5530- B&C 5-49-50
306	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compound/Phenol	IS 3025 (Part 43)
307	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate (Total Phosphate Ortho Phosphate Dissolved Phosphate)	APHA 23rd Ed. 4500 P – E, 4 – 164. (Ascorbic acid Method)
308	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate (Total Phosphate Ortho Phosphate Dissolved Phosphate)	IS: 3025 (PART-31)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 20 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
309	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA 23rd Ed., 3500 K – B, 3-89
310	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	IS 3025 (Part 45)
311	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica	APHA 23rd Ed.,4500 SiO2– E, 4–177
312	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica	IS 3025 (Part 35)
313	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA 23rd Ed., 3500 Na – B, 3 – 99
314	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	IS 3025 (Part 45)
315	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium Absorption Ratio (SAR)	IS 11624
316	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA 23rd Ed., 4500 SO4 ,- E, 4 – 199
317	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	IS 3025(Part 24)
318	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	APHA 23rd Ed., 4500 S2 – C, 4 - 183, & F, 4 – 187, D, 4-184.
319	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	IS: 3025 (Part 29)
320	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	APHA 23rd Ed, 2550 – B, 2 – 74
321	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	IS 3025 (Part 9)
322	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA 23rd Ed., 2540 – C, 2 – 69.
323	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	IS 3025 (Part 16)
324	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Nitrogen by Calculation	APHA 4500 NH3, B & C, 4 - 114, 4-116 & 4500 N Org- B,4-139: & APHA 4500 NO3 - E, 4 – 131
325	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	APHA 23rd Ed., 2540 – B, 2 – 68
326	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	IS 3025 (Part 15)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 21 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
327	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA 23rd Ed., 2540 – D, 2 – 70
328	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	IS 3025 (Part 17)
329	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA 23rd Ed, 2130 – B, 2 – 13.
330	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	IS 3025 (Part 10)
331	CHEMICAL- POLLUTION & ENVIRONMENT	Water Waste (Effluents/Sewage)	Boron	APHA 23rd Ed., 4500 B - C, 4 - 29
332	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Aluminium	APHA 23rd Ed.3120-B, 3-42
333	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Aluminium	IS 3025 (Part 2)
334	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Aluminum	APHA 23rd Ed., 3500 Al – B, 3 – 63.
335	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Aluminum	IS: 3025 (Part 55)
336	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Antimony	APHA 23rd Ed.3120-B, 3-42
337	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Antimony	IS 3025 (Part 2)
338	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Arsenic	APHA 23rd Ed.,3114 – C, 3 – 40
339	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Arsenic	APHA 23rd Ed.3120-B, 3-42
340	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Arsenic	IS 3025 (Part 2)
341	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Arsenic	IS:3025 (Part 37)
342	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Barium	IS 3025 (Part 2)
343	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Cadmium	APHA 23rd Ed., 3111 – B, 3 – 20
344	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Cadmium	APHA 23rd Ed.3120-B, 3-42
345	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Cadmium	IS 3025 (Part 2)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 22 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
346	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Chromium Hexavalent	APHA 23rd Ed., 3500 Cr – B, 3 – 71
347	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Copper	APHA 23rd Ed., 3111 – B, 3 – 20
348	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Copper	APHA 23rd Ed.3120-B, 3-42
349	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Copper	IS 3025 (Part 2)
350	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Iron	APHA 23rd Ed., 3111 – B, 3 – 20
351	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Iron	APHA 23rd Ed., 3500 Fe – B, 3 – 77
352	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Iron	APHA 23rd Ed.3120-B, 3-42
353	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Iron	IS 3025 (Part 2):
354	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Lead	APHA 23rd Ed., 3111 – B, 3 – 20
355	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Lead	APHA 23rd Ed.3120-B, 3-42
356	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Lead	IS 3025 (Part 2)
357	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Manganese	APHA 23rd Ed., 3111 – B, 3 – 20
358	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Manganese	APHA 23rd Ed.3120-B, 3-42
359	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Manganese	IS 3025 (Part 2)
360	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Mercury	APHA 23rd Ed., 3120 –B, 3 – 42
361	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Mercury	APHA 23rd Ed.,3112 – B, 3 – 25
362	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Mercury	IS 3025 (Part 2)
363	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Mercury	IS:3025 (Part 48)
364	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Molybdenum	APHA 23rd Ed.3120-B, 3-42

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 23 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
365	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Molybdenum	IS 3025 (Part 2)
366	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Nickel	APHA 23rd Ed., 3111 – B, 3 – 20
367	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Nickel	APHA 23rd Ed.3120-B, 3-42
368	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Nickel	IS 3025 (Part 2)
369	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Selenium	APHA 23rd Ed. 3500 Se-C-3-40
370	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Selenium	APHA 23rd Ed.,3114 – C, 3 – 40
371	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Selenium	APHA 23rd Ed.3120-B, 3-42:
372	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Selenium	IS 3025 (Part 2)
373	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Silver	IS 3025 (Part 2)
374	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Total Chromium	APHA 23rd Ed., 3111 – B, 3 – 20
375	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Total Chromium	APHA 23rd Ed.3120-B, 3-42
376	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Total Chromium	IS 3025 (Part 2)
377	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Total Chromium	IS: 3025 (Part -52)
378	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Vanadium	APHA 23rd Ed.3120-B, 3-42
379	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Vanadium	IS:3025 (Part -2)
380	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Zinc	APHA 23rd Ed.,3111 – B, 3 – 20
381	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Zinc	APHA 23rd Ed.3120-B, 3-42
382	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Waste Water)	Zinc	IS 3025 (Part 2)
383	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Total Chromium	APHA 23rd Ed.3120-B, 3-42

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 24 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
384	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Aluminium	APHA 23rd Ed.3120-B, 3-42
385	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Aluminium	IS 3025 (Part 2)
386	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Aluminum	APHA 23rd Ed., 3500 Al – B, 3 – 63.
387	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Aluminum	IS: 3025 (Part 55)
388	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Antimony	APHA 23rd Ed.3120-B, 3-42
389	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Antimony	IS 3025 (Part 2)
390	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Arsenic	APHA 23rd Ed.,3114 – C, 3 – 40.
391	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Arsenic	APHA 23rd Ed.3120-B, 3-42
392	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Arsenic	IS 3025 (Part 2)
393	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Arsenic	IS:3025 (Part 37)
394	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Barium	IS 3025 (Part 2)
395	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Cadmium	APHA 23rd Ed., 3111 – B, 3 – 20
396	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Cadmium	APHA 23rd Ed.3120-B, 3-42
397	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Cadmium	IS 3025 (Part 2)
398	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Chromium Hexavalent	APHA 23rd Ed., 3500 Cr – B, 3 – 71.
399	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Copper	APHA 23rd Ed., 3111 – B, 3 – 20.
400	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Copper	APHA 23rd Ed.3120-B, 3-42
401	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Copper	IS 3025 (Part 2)
402	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Iron	APHA 23rd Ed., 3111 – B, 3 – 20.

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 25 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
403	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Iron	APHA 23rd Ed., 3500 Fe – B, 3 – 77.
404	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Iron	APHA 23rd Ed.3120-B, 3-42
405	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Iron	IS 3025 (Part 2)
406	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Lead	APHA 23rd Ed., 3111 – B, 3 – 20.
407	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Lead	APHA 23rd Ed.3120-B, 3-42
408	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Lead	IS 3025 (Part 2)
409	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Manganese	APHA 23rd Ed., 3111 – B, 3 – 20.
410	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Manganese	APHA 23rd Ed.3120-B, 3-42
411	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Manganese	IS 3025 (Part 2)
412	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Mercury	APHA 23rd Ed., 3120 –B, 3 – 42
413	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Mercury	APHA 23rd Ed.,3112 – B, 3 – 25.
414	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Mercury	IS 3025 (Part 2)
415	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Mercury	IS:3025 (Part 48)
416	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Molybdenum	APHA 23rd Ed.3120-B, 3-42
417	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Molybdenum	IS 3025 (Part 2)
418	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Nickel	APHA 23rd Ed., 3111 – B, 3 – 20
419	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Nickel	APHA 23rd Ed.3120-B, 3-42
420	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Nickel	IS 3025 (Part 2)
421	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Selenium	APHA 23rd Ed. 3500 Se-C-3-40

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 26 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
422	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Selenium	APHA 23rd Ed.,3114 – C, 3 – 40.
423	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Selenium	APHA 23rd Ed.3120-B, 3-42
424	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Selenium	IS 3025 (Part 2)
425	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Silver	IS 3025 (Part 2)
426	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Total Chromium	APHA 23rd Ed., 3111 – B, 3 – 20
427	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Total Chromium	IS 3025 (Part 2)
428	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Total Chromium	IS: 3025 (PART-52)
429	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Vanadium	APHA 23rd Ed.3120-B, 3-42
430	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Vanadium	IS 3025 (Part 2)
431	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Zinc	APHA 23rd Ed.,3111 – B, 3 – 20.
432	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Zinc	APHA 23rd Ed.3120-B, 3-42
433	CHEMICAL- RESIDUES IN WATER	Trace metal elements (Water)	Zinc	IS 3025 (Part 2)
434	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part I)
435	CHEMICAL- SOLID FUELS	Coal	Ash Fusibility (Deformation Temperature)	ASTM D1857/D1857M
436	CHEMICAL- SOLID FUELS	Coal	Ash Fusibility (Fluid Temperature)	ASTM D1857/D1857M
437	CHEMICAL- SOLID FUELS	Coal	Ash Fusibility (Hemispherical Temperature)	ASTM D1857/D1857M
438	CHEMICAL- SOLID FUELS	Coal	Ash Fusibility (Softening Temperature)	ASTM D1857/D1857M
439	CHEMICAL- SOLID FUELS	Coal	Carbon	ASTM D 5373
440	CHEMICAL- SOLID FUELS	Coal	Fineness (1.18 mm)	ASTM D 197
441	CHEMICAL- SOLID FUELS	Coal	Fineness (2.36 mm)	ASTM D197
442	CHEMICAL- SOLID FUELS	Coal	Fineness (600 micron)	ASTM D 197

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 27 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
443	CHEMICAL- SOLID FUELS	Coal	Fineness (75 Micron)	ASTM D 197
444	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part I)
445	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	ASTM D5865/D5865M
446	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 (Part II)
447	CHEMICAL- SOLID FUELS	Coal	Hardgrove Grindibility Index (HGI)	ASTM D409/D409M
448	CHEMICAL- SOLID FUELS	Coal	Hydrogen	ASTM D 5373
449	CHEMICAL- SOLID FUELS	Coal	Mercury	ASTM D3684
450	CHEMICAL- SOLID FUELS	Coal	Mineral Matter	IS 1350 (Part I)
451	CHEMICAL- SOLID FUELS	Coal	Moisture (Inherent)	ASTM D3173/D3173-17a
452	CHEMICAL- SOLID FUELS	Coal	Moisture (Inherent)	IS 1350 (Part I)
453	CHEMICAL- SOLID FUELS	Coal	Moisture Equilibrated at 40oC and 60% RH	IS 1350 (Part 1)
454	CHEMICAL- SOLID FUELS	Coal	Nitrogen	ASTM D 5373
455	CHEMICAL- SOLID FUELS	Coal	Nitrogen	IS 1350 (Part IV) Sec.2
456	CHEMICAL- SOLID FUELS	Coal	Oxygen	ASTM D 3176
457	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Ash %	ASTM D7582
458	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Fixed Carbon	ASTM D7582
459	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Moisture	ASTM D7582
460	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Volatile Matter	ASTM D7582
461	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ASTM D3302/D3302M
462	CHEMICAL- SOLID FUELS	Coal	Total Moisture	IS 1350 (Part 1)
463	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ASTM D 4239
464	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	IS 1350 (Part III)
465	CHEMICAL- SOLID FUELS	Coal	Volatile matter	ASTM D3175
466	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part I)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	28 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
467	CHEMICAL- SOLID FUELS	Coke	Ash	ASTM D3174
468	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part I)
469	CHEMICAL- SOLID FUELS	Coke	Ash Fusibility Deformation Temperature	ASTM D1857/D1857M
470	CHEMICAL- SOLID FUELS	Coke	Ash Fusibility Fluid Temperature	ASTM D1857/D1857M
471	CHEMICAL- SOLID FUELS	Coke	Ash Fusibility Hemispherical Temperature	ASTM D1857/D1857M
472	CHEMICAL- SOLID FUELS	Coke	Ash Fusibility Softening Temperature	ASTM D1857
473	CHEMICAL- SOLID FUELS	Coke	Carbon	ASTM D 5373
474	CHEMICAL- SOLID FUELS	Coke	Fineness (1.18 mm)	ASTM D197
475	CHEMICAL- SOLID FUELS	Coke	Fineness (2.36 mm)	ASTM D197
476	CHEMICAL- SOLID FUELS	Coke	Fineness (600 micron)	ASTM D197
477	CHEMICAL- SOLID FUELS	Coke	Fineness (75 micron)	ASTM D197
478	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	IS 1350 (Part I)
479	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	ASTM D5865/D5865M
480	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	IS 1350 (Part II)
481	CHEMICAL- SOLID FUELS	Coke	Hardgrove Grindability Index (HGI)	ASTM D409/D409M
482	CHEMICAL- SOLID FUELS	Coke	Hydrogen	ASTM D 5373
483	CHEMICAL- SOLID FUELS	Coke	Mercury	ASTM D3684
484	CHEMICAL- SOLID FUELS	Coke	Mineral Matter	IS 1350 (Part I)
485	CHEMICAL- SOLID FUELS	Coke	Moisture (Inherent)	ASTM D3173/D3173M-17a
486	CHEMICAL- SOLID FUELS	Coke	Moisture (Inherent)	IS 1350 (Part I)
487	CHEMICAL- SOLID FUELS	Coke	Moisture Equilibrated at 40oC and 60% RH	IS 1350 (Part 1)
488	CHEMICAL- SOLID FUELS	Coke	Nitrogen	ASTM D 5373
489	CHEMICAL- SOLID FUELS	Coke	Nitrogen	IS 1350 (Part IV) : Sec.2
490	CHEMICAL- SOLID FUELS	Coke	Oxygen	ASTM D 3176
491	CHEMICAL- SOLID FUELS	Coke	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Ash	ASTM D7582

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7487
Validity	29/06/2021 to 28/06/2023

Last Amended on 26/01/2022

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
492	CHEMICAL- SOLID FUELS	Coke	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Fixed Carbon	ASTM D7582
493	CHEMICAL- SOLID FUELS	Coke	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Moisture	ASTM D7582
494	CHEMICAL- SOLID FUELS	Coke	Proximate Analysis by Thermo-gravimetric analyzer (TGA) Volatile Matter	ASTM D7582
495	CHEMICAL- SOLID FUELS	Coke	Total Moisture	ASTM D3302/D3302M
496	CHEMICAL- SOLID FUELS	Coke	Total Moisture	IS 1350 (Part 1)
497	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	ASTM D 4239
498	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	IS 1350 (Part III)
499	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	ASTM D3175
500	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	IS 1350 (Part I)
501	CHEMICAL- WATER	Construction Water	Calcium as CaCO3 (Calcium Hardness)	IS 3025 (Part 40): (EDTA titrimetric Method)
502	CHEMICAL- WATER	Construction Water	Magnesium as CaCO3 (Magnesium Hardness)	APHA 23rd Ed., 3500 Mg- B, 3-86
503	CHEMICAL- WATER	Construction Water	Magnesium as CaCO3 (Magnesium Hardness)	IS 3025 (Part 46): (Volumetric Method)
504	CHEMICAL- WATER	Construction Water	Phosphate Ortho as PO4	IS:3025 (Part-31): (Stannous Chloride Method)
505	CHEMICAL- WATER	Construction Water	Phosphate Dissolved as PO4	IS:3025 (Part-31): (Stannous Chloride Method)
506	CHEMICAL- WATER	Construction Water	Phosphate, Dissolved as PO4	APHA 23rd Ed., 4500 P-E, 4-164
507	CHEMICAL- WATER	Construction Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed. 4500 NH3 - B & C, 4 -114, & 4 – 116
508	CHEMICAL- WATER	Construction Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed., 4500 NH3 – F, 4 - 119
509	CHEMICAL- WATER	Construction Water	Bicarbonate	APHA 23rd Ed., 2320 - B, 2-37 & 4500 CO2 - D, 4 – 38
510	CHEMICAL- WATER	Construction Water	Bicarbonate	IS 3025 (Part 51)
511	CHEMICAL- WATER	Construction Water	Biochemical Oxygen Demand 3 days at 27oC (BOD)	IS 3025 (Part 44)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 30 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
512	CHEMICAL- WATER	Construction Water	Boron	APHA 23rd Ed, 4500 B - C, 4 - 29
513	CHEMICAL- WATER	Construction Water	Boron	APHA 23rd Ed., 4500 B - B, 4 - 27
514	CHEMICAL- WATER	Construction Water	Calcium as Ca	APHA 23rd Ed., 3500 Ca - B, 3 - 69
515	CHEMICAL- WATER	Construction Water	Calcium as Ca	IS 3025 (Part 40) (EDTA Titrimetric Method)
516	CHEMICAL- WATER	Construction Water	Calcium as CaCO3 (Calcium Hardness)	APHA 23rd Ed., 3500 Ca - B, 3 - 69
517	CHEMICAL- WATER	Construction Water	Carbonate	APHA 23rd Ed., 2320 - B, 2 - 41 & 4500 CO2 - D, 4 - 38
518	CHEMICAL- WATER	Construction Water	Carbonate	IS 3025 (Part 51)
519	CHEMICAL- WATER	Construction Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 -18
520	CHEMICAL- WATER	Construction Water	Chloride	APHA 23rd Ed, 4500 Cl- - B, 4 - 75
521	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32) (Argentometric Method)
522	CHEMICAL- WATER	Construction Water	Chlorine (Residual)	APHA 23rd Ed. ,4500 Cl – G, 4 – 72
523	CHEMICAL- WATER	Construction Water	Chlorine (Residual)	IS 3025 (Part 26) (Iodometric Method)
524	CHEMICAL- WATER	Construction Water	Colour	APHA 23rd Ed., 2120 - B, 2 – 6
525	CHEMICAL- WATER	Construction Water	Colour	IS 3025 (Part 4)
526	CHEMICAL- WATER	Construction Water	Dissolved Oxygen	APHA 23rd Ed., 4500 O - B, 4-144 & C, 4 -146
527	CHEMICAL- WATER	Construction Water	Dissolved Oxygen	IS 3025 (Part 38) (Winkler Method)
528	CHEMICAL- WATER	Construction Water	Electrical Conductivity	APHA 23rd Ed., 2510 - B, 2 - 58
529	CHEMICAL- WATER	Construction Water	Electrical Conductivity	IS 3025 (Part 14)
530	CHEMICAL- WATER	Construction Water	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90
531	CHEMICAL- WATER	Construction Water	Hardness (Total)	APHA 23rd Ed.2340 - C, 2 – 48
532	CHEMICAL- WATER	Construction Water	Hardness (Total)	IS 3025 (Part 21)
533	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	31 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
534	CHEMICAL- WATER	Construction Water	Magnesium as Mg	APHA 23rd Ed., 3500 Mg - B, 3 – 86
535	CHEMICAL- WATER	Construction Water	Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method)
536	CHEMICAL- WATER	Construction Water	Nitrate as NO3	APHA 23rd Ed. 4500 NO3 – B, 4-127
537	CHEMICAL- WATER	Construction Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 - E, 4 – 131
538	CHEMICAL- WATER	Construction Water	Nitrite as NO2	APHA 23rd Ed, 4500 NO2 - B, 4 – 124
539	CHEMICAL- WATER	Construction Water	Nitrite as NO2	IS 3025 (Part 34)
540	CHEMICAL- WATER	Construction Water	Organic solids	IS 3025 (Part 18)
541	CHEMICAL- WATER	Construction Water	pH	APHA 23rd Ed., 4500 H+ - B, 4 – 95
542	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
543	CHEMICAL- WATER	Construction Water	Phosphate Total as PO4	APHA 23rd Ed. 4500 P – E, 4 – 164
544	CHEMICAL- WATER	Construction Water	Phosphate Total as PO4	IS:3025 (Part-31): (Stannous Chloride Method)
545	CHEMICAL- WATER	Construction Water	Phosphate, Ortho as PO4	APHA 23rd Ed., 4500 P E, 4-164
546	CHEMICAL- WATER	Construction Water	Potassium	APHA 23rd Ed,3500 K – B, 3-89
547	CHEMICAL- WATER	Construction Water	Potassium	IS 3025 (Part 45): (Flame Photometric Method)
548	CHEMICAL- WATER	Construction Water	Silica (Reactive)	APHA 23rd Ed., 4500 SiO2 – E, 4 – 177
549	CHEMICAL- WATER	Construction Water	Silica Total	IS 3025 (Part 35) (Heteropoly Blue Method)
550	CHEMICAL- WATER	Construction Water	Sodium	APHA 23rd Ed, 3500 Na – B, 3 – 99
551	CHEMICAL- WATER	Construction Water	Sodium	IS 3025 (Part 45) (Flame Photometric Method)
552	CHEMICAL- WATER	Construction Water	Sodium absorption ratio	IS 11624: By calculation
553	CHEMICAL- WATER	Construction Water	Sulphate	APHA 23rd Ed., 4500 SO4 ,- E, 4 – 199
554	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025(Part 24) (Turbidity Method)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	32 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
555	CHEMICAL- WATER	Construction Water	Sulphide	APHA 23rd Ed, 4500 S2 – C, 4 - 183, and F, 4 – 187, D, 4-184
556	CHEMICAL- WATER	Construction Water	Sulphide	IS: 3025 (Part 29) (Methylene Blue Method)
557	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	APHA 23rd Ed, 2540 – C, 2 – 69
558	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	IS 3025 (Part 16)
559	CHEMICAL- WATER	Construction Water	Total Kjehldal Nitrogen	APHA 4500 N Org-B, 4-139
560	CHEMICAL- WATER	Construction Water	Total Nitrogen by Calculation	WI/SAP/WW/055
561	CHEMICAL- WATER	Construction Water	Total Solids	APHA 23rd Ed, 2540 – B, 2 – 68
562	CHEMICAL- WATER	Construction Water	Total Solids	IS 3025 (Part 15)
563	CHEMICAL- WATER	Construction Water	Total Suspended Solids	APHA 23rd Ed., 2540 – D, 2 – 69.
564	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part 17)
565	CHEMICAL- WATER	Construction Water	Turbidity	APHA 23rd Ed, 2130 – B, 2 – 13
566	CHEMICAL- WATER	Construction Water	Turbidity	IS 3025 (Part 10)
567	CHEMICAL- WATER	Construction Water	Volume of 0.02 N H2SO4 required to neutralize 100 mL water using Mixed Indicator	IS 456:2000 IS 3025 (Part 23)
568	CHEMICAL- WATER	Construction Water	Volume of 0.02 N NaOH required to neutralize 100 ml water sample using Phenolphthalein indicator	IS 456:2000 IS 3025 (Part 23)
569	CHEMICAL- WATER	Drinking Water	Nitrate as NO3 / Nitrate as N	APHA 23rd Ed., 4500 NO3 - E, 4 – 131.
570	CHEMICAL- WATER	Drinking Water	Acidity	APHA 23rd Ed., 2310 - B, 2 – 34.
571	CHEMICAL- WATER	Drinking Water	Acidity	IS 3025 (Part 22)
572	CHEMICAL- WATER	Drinking Water	Alkalinity Methyl Orange (M-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36
573	CHEMICAL- WATER	Drinking Water	Alkalinity Methyl Orange (M-Alkalinity)	IS 3025 (Part 23)
574	CHEMICAL- WATER	Drinking Water	Alkalinity Total	APHA 23rd Ed., 2320- B, 2-36
575	CHEMICAL- WATER	Drinking Water	Alkalinity Total	IS 3025 (Part 23)
576	CHEMICAL- WATER	Drinking Water	Alkalinity Phenolphthalein (P-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36.

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	33 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
577	CHEMICAL- WATER	Drinking Water	Alkalinity Phenolphthalein (P-Alkalinity)	IS 3025 (Part 23)
578	CHEMICAL- WATER	Drinking Water	Anionic Detergents as MBAS	APHA 23rd 5540- C 5-55
579	CHEMICAL- WATER	Drinking Water	Bicarbonate	APHA 23rd Ed. 2017, 2320 - B, 2-37 & 4500 CO2 - D, 4 – 38.
580	CHEMICAL- WATER	Drinking Water	Bicarbonate	IS 3025 (Part 51)
581	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand 3 days at 27oC (BOD)	IS 3025 (Part 44)
582	CHEMICAL- WATER	Drinking Water	Boron	APHA 23rd Ed., 4500 B - C, 4 - 29.
583	CHEMICAL- WATER	Drinking Water	Boron	APHA 23rd Ed., 4500 B - B, 4 - 27
584	CHEMICAL- WATER	Drinking Water	Calcium as Ca	APHA 23rd Ed., 3500 Ca - B, 3 - 69.
585	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)
586	CHEMICAL- WATER	Drinking Water	Calcium as CaCO3 (Calcium Hardness)	APHA 23rd Ed., 3500 Ca-B, 3-69
587	CHEMICAL- WATER	Drinking Water	Calcium as CaCO3 (Calcium Hardness)	IS 3025 (Part 40): (EDTA titrimetric Method)
588	CHEMICAL- WATER	Drinking Water	Carbonate	APHA 23rd Ed., 2320 - B, 2 - 41 & 4500 CO2 - D, 4 - 38.
589	CHEMICAL- WATER	Drinking Water	Carbonate	IS 3025 (Part 51)
590	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 -18.
591	CHEMICAL- WATER	Drinking Water	Chloramine	APHA 23rd Ed. 4500-Cl-G 4-72
592	CHEMICAL- WATER	Drinking Water	Chloride	APHA 23rd Ed.,4500 Cl- - B, 4 - 75
593	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32) (Argentometric Method)
594	CHEMICAL- WATER	Drinking Water	Chlorine (Residual)	APHA 23rd Ed., 4500 Cl – G, 4 – 72.
595	CHEMICAL- WATER	Drinking Water	Chlorine (Residual)	IS 3025 (Part 26) (Iodometric Method)
596	CHEMICAL- WATER	Drinking Water	Colour	APHA 23rd Ed., 2120 - B, 2 – 6
597	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	APHA 23rd Ed., 4500 O - B, 4-144 & C, 4 -146.

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	34 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
598	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38) (Winkler Method)
599	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	APHA 23rd Ed., 2510 - B, 2 - 58.
600	CHEMICAL- WATER	Drinking Water	Electrical Conductivity	IS 3025 (Part 14)
601	CHEMICAL- WATER	Drinking Water	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90.
602	CHEMICAL- WATER	Drinking Water	Hardness (Total)	APHA 23rd Ed.,2340 - C, 2 – 48.
603	CHEMICAL- WATER	Drinking Water	Hardness (Total)	IS 3025 (Part 21)
604	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Ed. 3500 Mg - B, 3 – 86
605	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method)
606	CHEMICAL- WATER	Drinking Water	Magnesium as CaCO3 (Magnesium Hardness)	APHA 23rd Ed., 3500 Mg-B, 3-86
607	CHEMICAL- WATER	Drinking Water	Magnesium as CaCO3 (Magnesium Hardness)	IS 3025 (Part 46): (Volumetric Method)
608	CHEMICAL- WATER	Drinking Water	Nitrate as NO3 / Nitrate as N	APHA 23rd Ed.,4500 NO3 – B, 4-127
609	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 05)
610	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Ed.,4500 H+ - B, 4 – 95.
611	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
612	CHEMICAL- WATER	Drinking Water	Phenolic Compound/ Phenol	IS 3025 (Part 43): (Chloroform extraction Method)
613	CHEMICAL- WATER	Drinking Water	Phenolic Compound/Phenols	APHA 23rd Ed., 5530- B&C 5-49-50
614	CHEMICAL- WATER	Drinking Water	Potassium	APHA 23rd Ed., 3500 K – B, 3-89.
615	CHEMICAL- WATER	Drinking Water	Potassium	IS 3025 (Part 45) (Flame Photometric Method)
616	CHEMICAL- WATER	Drinking Water	Sodium	APHA 23rd Ed. 2017, 3500 Na – B, 3 – 99.
617	CHEMICAL- WATER	Drinking Water	Sodium	IS 3025 (Part 45) (Flame Photometric Method)
618	CHEMICAL- WATER	Drinking Water	Sulphate	APHA 23rd Ed., 4500 SO4 ,- E, 4 – 199

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	35 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
619	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025(Part 24) (Turbidity Method)
620	CHEMICAL- WATER	Drinking Water	Sulphide	APHA 23rd Ed.,4500 S2 – C, 4 - 183, and F, 4 – 187, D, 4 – 184
621	CHEMICAL- WATER	Drinking Water	Sulphide	IS: 3025 (Part 29) (Methylene Blue Method)
622	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 7& 8)
623	CHEMICAL- WATER	Drinking Water	Total Cyanide	APHA 23rd Ed.4500-CN, C &E-40
624	CHEMICAL- WATER	Drinking Water	Total Cyanide	IS 3025 (Part 27) (Colorimetric Method)
625	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Ed., 2540 – C, 2 – 69
626	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
627	CHEMICAL- WATER	Drinking Water	Total Solids	APHA 23rd Ed., 2540 – B, 2 – 68.
628	CHEMICAL- WATER	Drinking Water	Total Solids	IS 3025 (Part 15)
629	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA 23rd Ed., 2540 – D, 2 – 69
630	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17)
631	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Ed., 2130 – B, 2 – 13.
632	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
633	CHEMICAL- WATER	Ground Water	Acidity	APHA 23rd Ed., 2310 - B, 2 – 34
634	CHEMICAL- WATER	Ground Water	Acidity	IS 3025 (Part 22)
635	CHEMICAL- WATER	Ground Water	Alkalinity Methyl Orange (M-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36
636	CHEMICAL- WATER	Ground Water	Alkalinity Methyl Orange (M-Alkalinity)	IS 3025 (Part 23)
637	CHEMICAL- WATER	Ground Water	Alkalinity Total	APHA 23rd Ed., 2320 - B, 2 - 36
638	CHEMICAL- WATER	Ground Water	Alkalinity Total	IS 3025 (Part 23)
639	CHEMICAL- WATER	Ground Water	Alkalinity Phenolphthalein (PAlkalinity)	IS 3025 (Part 23)
640	CHEMICAL- WATER	Ground Water	Alkalinity Phenolphthalein (P-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 36 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
641	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed., 4500 NH3 - B & C, 4 -114, & 4 – 116
642	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed., 4500 NH3 – F, 4 - 119.
643	CHEMICAL- WATER	Ground Water	Anionic Detergents as MBAS	APHA 23rd 5540- C 5-55
644	CHEMICAL- WATER	Ground Water	Bicarbonate	APHA 23rd Ed., 2320 - B, 2-37 & 4500 CO2 - D, 4 – 38.
645	CHEMICAL- WATER	Ground Water	Bicarbonate	IS 3025 (Part 51)
646	CHEMICAL- WATER	Ground Water	Biochemical Oxygen Demand 3 days at 27oC (BOD)	IS 3025 (Part 44)
647	CHEMICAL- WATER	Ground Water	Boron	APHA 23rd Ed., 4500 B - B, 4 - 27
648	CHEMICAL- WATER	Ground Water	Boron	APHA 23rd Ed., 4500 B - C, 4 - 29.
649	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Ed., 3500 Ca - B, 3 - 69
650	CHEMICAL- WATER	Ground Water	Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)
651	CHEMICAL- WATER	Ground Water	Calcium as CaCO3 (Calcium Hardness)	APHA 23rd Ed., 3500 Ca-B, 3-69
652	CHEMICAL- WATER	Ground Water	Calcium as CaCO3 (Calcium Hardness)	IS 3025 (Part 40): (EDTA titrimetric Method)
653	CHEMICAL- WATER	Ground Water	Carbonate	APHA 23rd Ed., 2320 - B, 2 - 41 & 4500 CO2 - D, 4 - 38
654	CHEMICAL- WATER	Ground Water	Carbonate	IS 3025 (Part 51)
655	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 -18.
656	CHEMICAL- WATER	Ground Water	Chloramines	APHA 23rd Ed 4500-Cl-G 4-72
657	CHEMICAL- WATER	Ground Water	Chloride	APHA 23rd Ed., 4500 Cl- - B, 4 - 75.
658	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part 32) (Argentometric Method)
659	CHEMICAL- WATER	Ground Water	Chlorine (Residual)	APHA 23rd Ed., 4500 Cl – G, 4 – 72.
660	CHEMICAL- WATER	Ground Water	Chlorine (Residual)	IS 3025 (Part 26) (Iodometric Method)
661	CHEMICAL- WATER	Ground Water	Colour	APHA 23rd Ed.,2120 - B, 2 – 6.

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	37 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
662	CHEMICAL- WATER	Ground Water	Colour	IS 3025 (Part 4)
663	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA 23rd Ed., 4500 O - B, 4-144 & C, 4 -146.
664	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	IS 3025 (Part 38) (Winkler Method)
665	CHEMICAL- WATER	Ground Water	Electrical Conductivity	APHA 23rd Ed.,2510 - B, 2 - 58.
666	CHEMICAL- WATER	Ground Water	Electrical Conductivity	IS 3025 (Part 14)
667	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90.
668	CHEMICAL- WATER	Ground Water	Hardness (Total)	APHA 23rd Ed., 2340 - C, 2 – 48.
669	CHEMICAL- WATER	Ground Water	Hardness (Total)	IS 3025 (Part 21)
670	CHEMICAL- WATER	Ground Water	Inorganic solids / fixed solids	IS 3025 (Part 18)
671	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Ed.,3500 Mg - B, 3 – 86.
672	CHEMICAL- WATER	Ground Water	Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method)
673	CHEMICAL- WATER	Ground Water	Magnesium as CaCO3 (Magnesium Hardness)	APHA 23rd Ed., 3500 Mg-B, 3-86
674	CHEMICAL- WATER	Ground Water	Magnesium as CaCO3 (Magnesium Hardness)	IS 3025 (Part 46): (Volumetric Method)
675	CHEMICAL- WATER	Ground Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-B, 4-127
676	CHEMICAL- WATER	Ground Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-E, 4-131
677	CHEMICAL- WATER	Ground Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 - E, 4 – 131
678	CHEMICAL- WATER	Ground Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 – B, 4-127
679	CHEMICAL- WATER	Ground Water	Nitrite as N	APHA 23rd Ed., 4500 NO2 – B, 4-124
680	CHEMICAL- WATER	Ground Water	Nitrite as N	IS 3025 (Part 34)
681	CHEMICAL- WATER	Ground Water	Nitrite as NO2	APHA 23rd Ed.,4500 NO2 - B, 4 – 124.
682	CHEMICAL- WATER	Ground Water	Nitrite as NO2	IS 3025 (Part 34)
683	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 05)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	38 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
684	CHEMICAL- WATER	Ground Water	Oil and Grease	APHA 23rd Ed., 5520 - B, 5 – 42
685	CHEMICAL- WATER	Ground Water	Oil and Grease	IS 3025 (Part 39)
686	CHEMICAL- WATER	Ground Water	Organic Solids/ Volatile Solids	IS 3025 (Part 18)
687	CHEMICAL- WATER	Ground Water	pH	APHA 23rd Ed., 4500 H+ - B, 4 – 95.
688	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11)
689	CHEMICAL- WATER	Ground Water	Phenolic Compound/ Phenol	IS 3025 (Part 43) (Chloroform extraction Method)
690	CHEMICAL- WATER	Ground Water	Phenolic Compound/Phenols	APHA 23rd Ed., 5530- B&C 5-49-50
691	CHEMICAL- WATER	Ground Water	Phosphate Total as P	APHA 23rd Ed., 4500 P-E, 4-164
692	CHEMICAL- WATER	Ground Water	Phosphate Total as P	IS:3025 (Part-31): (Stannous Chloride Method)
693	CHEMICAL- WATER	Ground Water	Phosphate Total as PO4	APHA 23rd Ed.,4500 P – E, 4 – 164. (Ascorbic acid Method)
694	CHEMICAL- WATER	Ground Water	Phosphate Total as PO4	IS: 3025 (PART-31) (Stannous Chloride Method)
695	CHEMICAL- WATER	Ground Water	Phosphate Dissolved as P	APHA 23rd Ed., 4500 P-E, 4-164
696	CHEMICAL- WATER	Ground Water	Phosphate Dissolved as P	IS:3025 (Part-31): (Stannous Chloride Method)
697	CHEMICAL- WATER	Ground Water	Phosphate Dissolved as PO4	APHA 23rd Ed., 4500 P-E, 4-164
698	CHEMICAL- WATER	Ground Water	Phosphate Dissolved as PO4	IS:3025 (Part-31): (Stannous Chloride Method)
699	CHEMICAL- WATER	Ground Water	Phosphate, Ortho as P	APHA 23rd Ed., 4500 P E, 4-164
700	CHEMICAL- WATER	Ground Water	Phosphate, Ortho as P	IS:3025 (Part-31): (Stannous Chloride Method)
701	CHEMICAL- WATER	Ground Water	Phosphate, Ortho as PO4	APHA 23rd Ed., 4500 P E, 4-164
702	CHEMICAL- WATER	Ground Water	Phosphate, Ortho as PO4	IS:3025 (Part-31): (Stannous Chloride Method)
703	CHEMICAL- WATER	Ground Water	Potassium	APHA 23rd Ed.3500 K – B, 3-89.
704	CHEMICAL- WATER	Ground Water	Potassium	IS 3025 (Part 45) (Flame Photometric Method)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	39 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
705	CHEMICAL- WATER	Ground Water	Silica Reactive	APHA 23rd Ed. 4500 SiO2 – E, 4 – 177.
706	CHEMICAL- WATER	Ground Water	Silica Total	APHA 23rd Ed., 4500 SiO2 – D, 4 – 175
707	CHEMICAL- WATER	Ground Water	Silica Total	IS 3025 (Part 35) (Heteropoly Blue Method)
708	CHEMICAL- WATER	Ground Water	Sodium	APHA 23rd Ed., 3500 Na – B, 3 – 99
709	CHEMICAL- WATER	Ground water	Sodium	IS 3025 (Part 45) (Flame Photometric Method)
710	CHEMICAL- WATER	Ground Water	Sodium absorption ratio	IS 11624
711	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23rd Ed.,4500 SO4 ,- E, 4 – 199
712	CHEMICAL- WATER	Ground Water	Sulphate	IS 3025 (Part 24) (Turbidity Method)
713	CHEMICAL- WATER	Ground Water	Sulphide	APHA 23rd Ed.,4500 S2 – C, 4 - 183, and F, 4 – 187, D, 4 – 184
714	CHEMICAL- WATER	Ground Water	Sulphide	IS: 3025 (Part 29)
715	CHEMICAL- WATER	Ground Water	Taste	IS 3025 (Part 7& 8)
716	CHEMICAL- WATER	Ground Water	Temperature	APHA 23rd Ed.,2550 – B, 2 – 74
717	CHEMICAL- WATER	Ground Water	Temperature	IS 3025 (Part 9)
718	CHEMICAL- WATER	Ground Water	Total Cyanide	APHA 23rd Ed.4500-CN, C &E-40
719	CHEMICAL- WATER	Ground Water	Total Cyanide	IS 3025 (Part 27) (Colorimetric Method)
720	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rd Ed., 2540 – C, 2 – 69.
721	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16)
722	CHEMICAL- WATER	Ground Water	Total Kjehldal Nitrogen	APHA 4500 N Org-B, 4-139
723	CHEMICAL- WATER	Ground Water	Total Nitrogen by Calculation	WI/SAP/WW/055
724	CHEMICAL- WATER	Ground Water	Total Solids	APHA 23rd Ed., 2540 – B, 2 – 68
725	CHEMICAL- WATER	Ground Water	Total Solids	IS 3025 (Part 15)
726	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA 23rd Ed.,2540 – D, 2 – 69.
727	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS 3025 (Part 17)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	40 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
728	CHEMICAL- WATER	Ground Water	Turbidity	APHA 23rd Ed., 2130 – B, 2 – 13
729	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)
730	CHEMICAL- WATER	Industrial Water	Acidity	APHA 23rd Ed. 2310 - B, 2 – 34
731	CHEMICAL- WATER	Industrial Water	Acidity	IS 3025 (Part 22)
732	CHEMICAL- WATER	Industrial Water	Alkalinity Methyl Orange (M-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36
733	CHEMICAL- WATER	Industrial Water	Alkalinity Methyl Orange (M-Alkalinity)	IS 3025 (Part 23)
734	CHEMICAL- WATER	Industrial Water	Alkalinity Total	APHA 23rd Ed 2320 - B, 2 - 36
735	CHEMICAL- WATER	Industrial Water	Alkalinity Total	IS 3025 (Part 23)
736	CHEMICAL- WATER	Industrial Water	Alkalinity Phenolphthalein (P-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36
737	CHEMICAL- WATER	Industrial Water	Alkalinity Phenolphthalein (P-Alkalinity)	IS 3025 (Part 23)
738	CHEMICAL- WATER	Industrial Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed, 4500 NH3 - B & C, 4 -114, & 4 – 116
739	CHEMICAL- WATER	Industrial Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed., 4500 NH3 – F, 4 - 119
740	CHEMICAL- WATER	Industrial Water	Anionic Detergents as MBAS	APHA 23rd 5540- C 5-55
741	CHEMICAL- WATER	Industrial Water	Bicarbonate	APHA 23rd Ed., 2320 - B, 2-37 & 4500 CO2 - D, 4 – 38.
742	CHEMICAL- WATER	Industrial Water	Bicarbonate	IS 3025 (Part 51)
743	CHEMICAL- WATER	Industrial Water	Biochemical Oxygen Demand 3 days at 27oC (BOD)	IS 3025 (Part 44)
744	CHEMICAL- WATER	Industrial Water	Boron	APHA 23rd Ed., 4500 B - C, 4 - 29
745	CHEMICAL- WATER	Industrial Water	Boron	APHA 23rd Ed.4500 B - B, 4 - 27
746	CHEMICAL- WATER	Industrial Water	Calcium as Ca	APHA 23rd Ed., 3500 Ca - B, 3 - 69
747	CHEMICAL- WATER	Industrial Water	Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)
748	CHEMICAL- WATER	Industrial Water	Calcium as CaCO3 (Calcium Hardness)	APHA 23rd Ed., 3500 Ca-B, 3-69

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 41 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
749	CHEMICAL- WATER	Industrial Water	Calcium as CaCO3 (Calcium Hardness)	IS 3025 (Part 40): (EDTA titrimetric Method)
750	CHEMICAL- WATER	Industrial Water	Carbonate	APHA 23rd Ed., 2320 - B, 2 - 41 & 4500 CO2 - D, 4 - 38
751	CHEMICAL- WATER	Industrial Water	Carbonate	IS 3025 (Part 51)
752	CHEMICAL- WATER	Industrial Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 -18
753	CHEMICAL- WATER	Industrial Water	Chloramines	APHA 23rd Ed. 4500-Cl-G 4-72
754	CHEMICAL- WATER	Industrial Water	Chloride	APHA 23rd Ed., 4500 Cl- B, 4 - 75
755	CHEMICAL- WATER	Industrial Water	Chloride	IS 3025 (Part 32) (Argentometric Method)
756	CHEMICAL- WATER	Industrial Water	Chlorine (Residual)	APHA 23rd Ed., 4500 Cl – G, 4 – 72
757	CHEMICAL- WATER	Industrial Water	Chlorine (Residual)	IS 3025 (Part 26)
758	CHEMICAL- WATER	Industrial Water	Colour	APHA 23rd Ed., 2120 - B, 2 – 6
759	CHEMICAL- WATER	Industrial Water	Colour	IS 3025 (Part 4)
760	CHEMICAL- WATER	Industrial Water	Dissolved Oxygen	APHA 23rd Ed., 4500 O - B, 4-144 & C, 4 -146
761	CHEMICAL- WATER	Industrial Water	Dissolved Oxygen	IS 3025 (Part 38)
762	CHEMICAL- WATER	Industrial Water	Electrical Conductivity	APHA 23rd Ed., 2510 - B, 2 - 58
763	CHEMICAL- WATER	Industrial Water	Electrical Conductivity	IS 3025 (Part 14)
764	CHEMICAL- WATER	Industrial Water	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90
765	CHEMICAL- WATER	Industrial Water	Hardness (Total)	APHA 23rd Ed. , 2340 - C, 2 – 48
766	CHEMICAL- WATER	Industrial Water	Hardness (Total)	IS 3025 (Part 21)
767	CHEMICAL- WATER	Industrial Water	Hydrazine	IS 3550
768	CHEMICAL- WATER	Industrial Water	Inorganic Solids/ Fixed Solids	IS 3025 (Part 18)
769	CHEMICAL- WATER	Industrial Water	Magnesium as Mg	APHA 23rd Ed, 3500 Mg - B, 3 – 86
770	CHEMICAL- WATER	Industrial Water	Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method)
771	CHEMICAL- WATER	Industrial Water	Magnesium as CaCO3 (Magnesium Hardness)	APHA 23rd Ed., 3500 Mg-B, 3-86

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 42 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
772	CHEMICAL- WATER	Industrial Water	Magnesium as CaCO3 (Magnesium Hardness)	IS 3025 (Part 46): (Volumetric Method)
773	CHEMICAL- WATER	Industrial Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-B, 4-127
774	CHEMICAL- WATER	Industrial Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-E, 4-131
775	CHEMICAL- WATER	Industrial Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 - E, 4 – 131
776	CHEMICAL- WATER	Industrial Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 – B, 4-127
777	CHEMICAL- WATER	Industrial Water	Nitrite as N	APHA 23rd Ed., 4500 NO2 – B, 4-124
778	CHEMICAL- WATER	Industrial Water	Nitrite as N	IS 3025 (Part 34)
779	CHEMICAL- WATER	Industrial Water	Nitrite as NO2	APHA 23rd Ed, 4500 NO2 - B, 4 – 124
780	CHEMICAL- WATER	Industrial Water	Nitrite as NO2	IS 3025 (Part 34)
781	CHEMICAL- WATER	Industrial Water	Oil and Grease	APHA 23rd Ed., 5520 - B, 5 – 42
782	CHEMICAL- WATER	Industrial Water	Oil and Grease	IS 3025 (Part 39)
783	CHEMICAL- WATER	Industrial Water	Organic Solids/ Volatile Solids	IS 3025 (Part 18)
784	CHEMICAL- WATER	Industrial Water	pH	APHA 23rd Ed., 4500 H+ - B, 4 – 95
785	CHEMICAL- WATER	Industrial Water	pH	IS 3025 (Part 11)
786	CHEMICAL- WATER	Industrial Water	Phenolic Compound/ Phenol	IS 3025 (Part 43) (Chloroform extraction Method)
787	CHEMICAL- WATER	Industrial Water	Phenolic Compound/ Phenols	APHA 23rd Ed., 5530- B&C 5-49-50
788	CHEMICAL- WATER	Industrial Water	Phosphate Total as P	APHA 23rd Ed., 4500 P-E, 4-164
789	CHEMICAL- WATER	Industrial Water	Phosphate Total as PO4	APHA 23rd Ed. 4500 P – E, 4 – 164
790	CHEMICAL- WATER	Industrial Water	Phosphate Dissolved as P	APHA 23rd Ed., 4500 P-E, 4-164
791	CHEMICAL- WATER	Industrial Water	Phosphate Dissolved as PO4	APHA 23rd Ed., 4500 P-E, 4-164
792	CHEMICAL- WATER	Industrial Water	Phosphate, Ortho as P	APHA 23rd Ed., 4500 P E, 4-164
793	CHEMICAL- WATER	Industrial Water	Phosphate, Ortho as PO4	APHA 23rd Ed., 4500 P E, 4-164

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	43 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
794	CHEMICAL- WATER	Industrial Water	Potassium	APHA 23rd Ed., 3500 K – B, 3-89
795	CHEMICAL- WATER	Industrial Water	Potassium	IS 3025 (Part 45) (Flame Photometric Method)
796	CHEMICAL- WATER	Industrial Water	Silica Reactive	APHA 23rd Ed., 4500 SiO2 – E, 4 – 177
797	CHEMICAL- WATER	Industrial Water	Silica Total	IS 3025 (Part 35) (Heteropoly Blue Method)
798	CHEMICAL- WATER	Industrial Water	Sodium	IS 3025 (Part 45) (Flame Photometric Method)
799	CHEMICAL- WATER	Industrial Water	Sodium absorption ratio	IS 11624
800	CHEMICAL- WATER	Industrial Water	Sulphate	APHA 23rd Ed, 4500 SO4 ,- E, 4 – 199
801	CHEMICAL- WATER	Industrial Water	Sulphate	IS 3025(Part 24) (Turbidity Method)
802	CHEMICAL- WATER	Industrial Water	Sulphide	APHA 23rd Ed.4500 S2 – C, 4 - 183, and F, 4 – 187, D, 4-184
803	CHEMICAL- WATER	Industrial Water	Sulphide	IS: 3025 (Part 29) (Methylene Blue Method)
804	CHEMICAL- WATER	Industrial Water	Total Cyanide	APHA 23rd Ed.4500-CN, C &E-40
805	CHEMICAL- WATER	Industrial Water	Total Cyanide	IS 3025 (Part 27) (Colorimetric Method)
806	CHEMICAL- WATER	Industrial Water	Total Dissolved Solids	APHA 23rd Ed,, 2540 – C, 2 – 69
807	CHEMICAL- WATER	Industrial Water	Total Dissolved Solids	IS 3025 (Part 16)
808	CHEMICAL- WATER	Industrial Water	Total Kjehldal Nitrogen	APHA 4500 N Org-B, 4-139
809	CHEMICAL- WATER	Industrial Water	Total Nitrogen by Calculation	WI/SAP/WW/055
810	CHEMICAL- WATER	Industrial Water	Total Solids	APHA 23rd Ed., 2540 – B, 2 – 68
811	CHEMICAL- WATER	Industrial Water	Total Solids	IS 3025 (Part 15)
812	CHEMICAL- WATER	Industrial Water	Total Suspended Solids	APHA 23rd Ed., 2540 – D, 2 – 69
813	CHEMICAL- WATER	Industrial Water	Total Suspended Solids	IS 3025 (Part 17)
814	CHEMICAL- WATER	Industrial Water	Turbidity	APHA 23rd Ed., 2130 – B, 2 – 13

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	44 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
815	CHEMICAL- WATER	Industrial Water	Turbidity	IS 3025 (Part 10)
816	CHEMICAL- WATER	Irrigation Water	Acidity	APHA 23rd Ed, 2310 - B, 2 – 34
817	CHEMICAL- WATER	Irrigation Water	Acidity	IS 3025 (Part 22)
818	CHEMICAL- WATER	Irrigation Water	Alkalinity Methyl Orange (M-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36
819	CHEMICAL- WATER	Irrigation Water	Alkalinity Methyl Orange (M-Alkalinity)	IS 3025 (Part 23)
820	CHEMICAL- WATER	Irrigation Water	Alkalinity Total	APHA 23rd Ed., 2320 - B, 2 - 36.
821	CHEMICAL- WATER	Irrigation Water	Alkalinity Total	IS 3025 (Part 23)
822	CHEMICAL- WATER	Irrigation Water	Alkalinity Phenolphthalein (P-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36
823	CHEMICAL- WATER	Irrigation Water	Alkalinity Phenolphthalein (P-Alkalinity)	IS 3025 (Part 23)
824	CHEMICAL- WATER	Irrigation Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed 4500 NH3 – F, 4 - 119
825	CHEMICAL- WATER	Irrigation Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed. 4500 NH3 - B & C, 4 -114, & 4 – 116
826	CHEMICAL- WATER	Irrigation Water	Bicarbonate	APHA 23rd Ed., 2320 - B, 2-37 & 4500 CO2 - D, 4 – 38.
827	CHEMICAL- WATER	Irrigation Water	Bicarbonate	IS 3025 (Part 51)
828	CHEMICAL- WATER	Irrigation Water	Biochemical Oxygen Demand 3 days at 27oC (BOD)	IS 3025 (Part 44)
829	CHEMICAL- WATER	Irrigation Water	Boron	APHA 23rd Ed., 4500 B - B, 4 - 27.
830	CHEMICAL- WATER	Irrigation Water	Boron	APHA 23rd Ed., 4500 B - C, 4 - 29.
831	CHEMICAL- WATER	Irrigation Water	Calcium as Ca	APHA 23rd Ed., 3500 Ca - B, 3 - 69.
832	CHEMICAL- WATER	Irrigation Water	Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)
833	CHEMICAL- WATER	Irrigation Water	Calcium as CaCO3 (Calcium Hardness)	APHA 23rd Ed., 3500 Ca-B, 3-69
834	CHEMICAL- WATER	Irrigation Water	Calcium as CaCO3 (Calcium Hardness)	IS 3025 (Part 40): (EDTA titrimetric Method)
835	CHEMICAL- WATER	Irrigation Water	Carbonate	APHA 23rd Ed., 2320 - B, 2 - 41 & 4500 CO2 - D, 4 - 38.

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	45 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
836	CHEMICAL- WATER	Irrigation Water	Carbonate	IS 3025 (Part 51)
837	CHEMICAL- WATER	Irrigation Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 -18
838	CHEMICAL- WATER	Irrigation Water	Chloramines	APHA 23rd Ed. 4500-Cl-G 4-72
839	CHEMICAL- WATER	Irrigation Water	Chloride	APHA 23rd Ed., 4500 Cl- - B, 4 - 75
840	CHEMICAL- WATER	Irrigation Water	Chloride	IS 3025 (Part 32) (Argentometric Method)
841	CHEMICAL- WATER	Irrigation Water	Chlorine (Residual)	APHA 23rd Ed., 4500 Cl – G, 4 – 72
842	CHEMICAL- WATER	Irrigation Water	Chlorine (Residual)	IS 3025 (Part 26) (Iodometric Method)
843	CHEMICAL- WATER	Irrigation Water	Colour	APHA 23rd Ed. , 2120 - B, 2 – 6
844	CHEMICAL- WATER	Irrigation Water	Colour	IS 3025 (Part 4)
845	CHEMICAL- WATER	Irrigation Water	Dissolved Oxygen	APHA 23rd Ed., 4500 O - B, 4-144 & C, 4 -146
846	CHEMICAL- WATER	Irrigation Water	Dissolved Oxygen	IS 3025 (Part 38) (Winkler Method)
847	CHEMICAL- WATER	Irrigation Water	Electrical Conductivity	APHA 23rd Ed., 2510 - B, 2 - 58.
848	CHEMICAL- WATER	Irrigation Water	Electrical Conductivity	IS 3025 (Part 14)
849	CHEMICAL- WATER	Irrigation Water	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90
850	CHEMICAL- WATER	Irrigation Water	Hardness (Total)	APHA 23rd Ed., 2340 - C, 2 – 48.
851	CHEMICAL- WATER	Irrigation Water	Hardness (Total)	IS 3025 (Part 21)
852	CHEMICAL- WATER	Irrigation Water	Inorganic Solids/ Fixed Solids	IS 3025 (Part 18)
853	CHEMICAL- WATER	Irrigation Water	Magnesium as Mg	APHA 23rd Ed., 3500 Mg - B, 3 – 86.
854	CHEMICAL- WATER	Irrigation Water	Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method)
855	CHEMICAL- WATER	Irrigation Water	Magnesium as CaCO3 (Magnesium Hardness)	APHA 23rd Ed., 3500 Mg-B, 3-86
856	CHEMICAL- WATER	Irrigation Water	Magnesium as CaCO3 (Magnesium Hardness)	IS 3025 (Part 46): (Volumetric Method)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 46 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
857	CHEMICAL- WATER	Irrigation Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-B, 4-127
858	CHEMICAL- WATER	Irrigation Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-E, 4-131
859	CHEMICAL- WATER	Irrigation Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 - E, 4 – 131.
860	CHEMICAL- WATER	Irrigation Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 – B, 4-127.
861	CHEMICAL- WATER	Irrigation Water	Nitrite as N	APHA 23rd Ed., 4500 NO2 – B, 4-124
862	CHEMICAL- WATER	Irrigation Water	Nitrite as N	IS 3025 (Part 34)
863	CHEMICAL- WATER	Irrigation Water	Nitrite as NO2	APHA 23rd Ed, 4500 NO2 - B, 4 – 124
864	CHEMICAL- WATER	Irrigation Water	Nitrite as NO2	IS 3025 (Part 34)
865	CHEMICAL- WATER	Irrigation Water	pH	APHA 23rd Ed., 4500 H+ - B, 4 – 95.
866	CHEMICAL- WATER	Irrigation Water	pH	IS 3025 (Part 11)
867	CHEMICAL- WATER	Irrigation Water	Phosphate Total as P	APHA 23rd Ed., 4500 P-E, 4-164
868	CHEMICAL- WATER	Irrigation Water	Phosphate Total as PO4	APHA 23rd Ed. 4500 P – E, 4 – 164
869	CHEMICAL- WATER	Irrigation Water	Phosphate Dissolved as P	APHA 23rd Ed., 4500 P-E, 4-164
870	CHEMICAL- WATER	Irrigation Water	Phosphate Dissolved as PO4	APHA 23rd Ed., 4500 P-E, 4-164
871	CHEMICAL- WATER	Irrigation Water	Phosphate, Ortho as P	APHA 23rd Ed., 4500 P-E, 4-16
872	CHEMICAL- WATER	Irrigation Water	Phosphate, Ortho as PO4	APHA 23rd Ed., 4500 P E, 4-164
873	CHEMICAL- WATER	Irrigation Water	Potassium	APHA 23rd Ed.,3500 K – B, 3-89.
874	CHEMICAL- WATER	Irrigation Water	Potassium	IS 3025 (Part 45) (Flame Photometric Method)
875	CHEMICAL- WATER	Irrigation Water	Silica Reactive	APHA 23rd Ed., 4500 SiO2 – E, 4 – 177
876	CHEMICAL- WATER	Irrigation Water	Silica Total	IS 3025 (Part 35) (Heteropoly Blue Method)
877	CHEMICAL- WATER	Irrigation Water	Sodium	APHA 23rd Ed., 3500 Na – B, 3 – 99.

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 47 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
878	CHEMICAL- WATER	Irrigation Water	Sodium	IS 3025 (Part 45) (Flame Photometric Method)
879	CHEMICAL- WATER	Irrigation Water	Sodium absorption ratio	IS 11624
880	CHEMICAL- WATER	Irrigation Water	Sulphate	APHA 23rd Ed., 4500 SO4 ,- E, 4 – 199
881	CHEMICAL- WATER	Irrigation Water	Sulphate	IS 3025(Part 24) (Turbidity Method)
882	CHEMICAL- WATER	Irrigation Water	Sulphide	APHA 23rd Ed.4500 S2 – C, 4 - 183, and F, 4 – 187, D, 4-184
883	CHEMICAL- WATER	Irrigation Water	Sulphide	IS: 3025 (Part 29) (Methylene Blue Method)
884	CHEMICAL- WATER	Irrigation Water	Total Dissolved Solids	APHA 23rd Ed, 2540 – C, 2 – 69
885	CHEMICAL- WATER	Irrigation Water	Total Dissolved Solids	IS 3025 (Part 16)
886	CHEMICAL- WATER	Irrigation Water	Total Kjehldal Nitrogen	APHA 4500 N Org-B, 4-139
887	CHEMICAL- WATER	Irrigation Water	Total Nitrogen by Calculation	WI/SAP/WW/055
888	CHEMICAL- WATER	Irrigation Water	Total Solids	APHA 23rd Ed., 2540 – B, 2 – 68
889	CHEMICAL- WATER	Irrigation Water	Total Solids	IS 3025 (Part 15)
890	CHEMICAL- WATER	Irrigation Water	Total Suspended Solids	APHA 23rd Ed., 2540 – D, 2 – 69
891	CHEMICAL- WATER	Irrigation Water	Total Suspended Solids	IS 3025 (Part 17)
892	CHEMICAL- WATER	Irrigation Water	Turbidity	APHA 23rd Ed., 2130 – B, 2 – 13
893	CHEMICAL- WATER	Irrigation Water	Turbidity	IS 3025 (Part 10)
894	CHEMICAL- WATER	Surface Water	Hardness (Total)	APHA 23rd Ed.2340 - C, 2 – 48
895	CHEMICAL- WATER	Surface Water	Acidity	APHA 23rd Ed., 2310 - B, 2 – 34.
896	CHEMICAL- WATER	Surface Water	Acidity	IS 3025 (Part 22)
897	CHEMICAL- WATER	Surface Water	Alkalinity Methyl Orange (M-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36.
898	CHEMICAL- WATER	Surface Water	Alkalinity Methyl Orange (M-Alkalinity)	IS 3025 (Part 23)
899	CHEMICAL- WATER	Surface Water	Alkalinity Total	APHA 23rd Ed., 2320 - B, 2 - 36.
900	CHEMICAL- WATER	Surface Water	Alkalinity Total	IS 3025 (Part 23)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7487
Page No	48 of 52
Validity	29/06/2021 to 28/06/2023
Last Amended on	26/01/2022

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
901	CHEMICAL- WATER	Surface Water	Alkalinity Phenolphthalein (P-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36.
902	CHEMICAL- WATER	Surface Water	Alkalinity Phenolphthalein (P-Alkalinity)	IS 3025 (Part 23)
903	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed., 4500 NH3 - B & C, 4 -114, & 4 – 116
904	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen/ Ammonia	APHA 23rd Ed., 4500 NH3 – F, 4 - 119
905	CHEMICAL- WATER	Surface Water	Anionic Detergents as MBAS	APHA 23rd 5540- C 5-55
906	CHEMICAL- WATER	Surface Water	Bicarbonate	APHA 23rd Ed.,2320 - B, 2-37 & 4500 CO2 - D, 4 – 38
907	CHEMICAL- WATER	Surface Water	Bicarbonate	IS 3025 (Part 51)
908	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand 3 days at 27oC (BOD)	IS 3025 (Part 44)
909	CHEMICAL- WATER	Surface Water	Boron	APHA 23rd Ed. 2017, 4500 B - C, 4 - 29
910	CHEMICAL- WATER	Surface Water	Boron	APHA 23rd Ed., 4500 B - B, 4 - 27
911	CHEMICAL- WATER	Surface Water	Calcium as Ca	APHA 23rd Ed.,3500 Ca - B, 3 - 69
912	CHEMICAL- WATER	Surface Water	Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)
913	CHEMICAL- WATER	Surface Water	Calcium as CaCO3 (Calcium Hardness)	APHA 23rd Ed., 3500 Ca-B, 3-69
914	CHEMICAL- WATER	Surface Water	Calcium as CaCO3 (Calcium Hardness)	IS 3025 (Part 40): (EDTA titrimetric Method)
915	CHEMICAL- WATER	Surface Water	Carbonate	APHA 23rd Ed.,2320 - B, 2 - 41 & 4500 CO2 - D, 4 - 38
916	CHEMICAL- WATER	Surface Water	Carbonate	IS 3025 (Part 51)
917	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed., 5220 - B, 5 -18
918	CHEMICAL- WATER	Surface Water	Chloramine	APHA 23rd Ed. 4500-Cl-G 4-72
919	CHEMICAL- WATER	Surface Water	Chloride	APHA 23rd Ed.,4500 Cl- - B, 4 - 75.
920	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part 32) (Argentometric Method)

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	49 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
921	CHEMICAL- WATER	Surface Water	Chlorine (Residual)	APHA 23rd Ed.,4500 Cl – G, 4 – 72
922	CHEMICAL- WATER	Surface Water	Chlorine (Residual)	IS 3025 (Part 26) (Iodometric Method)
923	CHEMICAL- WATER	Surface Water	Colour	APHA 23rd Ed. 2120 - B, 2 – 6
924	CHEMICAL- WATER	Surface Water	Colour	IS 3025 (Part 4)
925	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA 23rd Ed.,4500 O - B, 4-144 & C, 4 -146
926	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38) (Winkler Method)
927	CHEMICAL- WATER	Surface Water	Electrical Conductivity	APHA 23rd Ed., 2510 - B, 2 - 58
928	CHEMICAL- WATER	Surface Water	Electrical Conductivity	IS 3025 (Part 14)
929	CHEMICAL- WATER	Surface Water	Fluoride	APHA 23rd Ed., 4500 F- D, 4 – 90
930	CHEMICAL- WATER	Surface Water	Hardness (Total)	IS 3025 (Part 21)
931	CHEMICAL- WATER	Surface Water	Inorganic Solids/ Fixed Solids	IS 3025 (Part 18)
932	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA 23rd Ed., 3500 Mg - B, 3 – 86
933	CHEMICAL- WATER	Surface Water	Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method)
934	CHEMICAL- WATER	Surface Water	Magnesium as CaCO3 (Magnesium Hardness)	APHA 23rd Ed., 3500 Mg-B, 3-86
935	CHEMICAL- WATER	Surface Water	Magnesium as CaCO3 (Magnesium Hardness)	IS 3025 (Part 46): (Volumetric Method)
936	CHEMICAL- WATER	Surface Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-B, 4-127
937	CHEMICAL- WATER	Surface Water	Nitrate as N	APHA 23rd Ed., 4500 NO3-E, 4-131
938	CHEMICAL- WATER	Surface Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 - E, 4 – 131.
939	CHEMICAL- WATER	Surface Water	Nitrate as NO3	APHA 23rd Ed., 4500 NO3 – B, 4-127
940	CHEMICAL- WATER	Surface Water	Nitrite as N	APHA 23rd Ed., 4500 NO2 – B, 4-124
941	CHEMICAL- WATER	Surface Water	Nitrite as N	IS 3025 (Part 34)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 50 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
942	CHEMICAL- WATER	Surface Water	Nitrite as NO2	APHA 23rd Ed.,4500 NO2 - B, 4 – 124.
943	CHEMICAL- WATER	Surface Water	Nitrite as NO2	IS 3025 (Part 34)
944	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 05)
945	CHEMICAL- WATER	Surface Water	Oil and Grease	APHA 23rd Ed., 5520 - B, 5 – 42
946	CHEMICAL- WATER	Surface Water	Oil and Grease	IS 3025 (Part 39)
947	CHEMICAL- WATER	Surface Water	Organic Solids/ Volatile Solids	IS 3025 (Part 18)
948	CHEMICAL- WATER	Surface Water	pH	APHA 23rd Ed. 4500 H+ - B, 4 – 95.
949	CHEMICAL- WATER	Surface Water	pH	IS 3025 (Part 11)
950	CHEMICAL- WATER	Surface Water	Phenolic Compound/ Phenol	IS 3025 (Part 43) (Chloroform extraction Method)
951	CHEMICAL- WATER	Surface Water	Phenolic Compound/Phenol	APHA 23rd Ed., 5530- B&C 5-49-50
952	CHEMICAL- WATER	Surface Water	Phosphate Total as P	APHA 23rd Ed., 4500 P-E, 4-164
953	CHEMICAL- WATER	Surface Water	Phosphate Total as PO4	APHA 23rd Ed.4500 P – E, 4 – 164
954	CHEMICAL- WATER	Surface Water	Phosphate Dissolved as P	APHA 23rd Ed., 4500 P E, 4-164
955	CHEMICAL- WATER	Surface Water	Phosphate Dissolved as PO4	APHA 23rd Ed., 4500 P-E, 4-164
956	CHEMICAL- WATER	Surface Water	Phosphate, Ortho as P	APHA 23rd Ed., 4500 P E, 4-164
957	CHEMICAL- WATER	Surface Water	Phosphate, Ortho as PO4	APHA 23rd Ed., 4500 P E, 4-164
958	CHEMICAL- WATER	Surface Water	Potassium	APHA 23rd Ed., 3500 K – B, 3-89.
959	CHEMICAL- WATER	Surface Water	Potassium	IS 3025 (Part 45) (Flame Photometric Method)
960	CHEMICAL- WATER	Surface Water	Silica Reactive	APHA 23rd Ed., 4500 SiO2 – E, 4 – 177.
961	CHEMICAL- WATER	Surface Water	Silica Total	IS 3025 (Part 35) (Heteropoly Blue Method)
962	CHEMICAL- WATER	Surface Water	Sodium	APHA 23rd Ed.,3500 Na – B, 3 – 99.
963	CHEMICAL- WATER	Surface Water	Sodium	IS 3025 (Part 45) (Flame Photometric Method)
964	CHEMICAL- WATER	Surface Water	Sodium absorption ratio	IS 11624 By calculation

SCOPE OF ACCREDITATION

Laboratory Name :	MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7487	**Page No**	51 of 52
Validity	29/06/2021 to 28/06/2023	**Last Amended on**	26/01/2022

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
965	CHEMICAL- WATER	Surface Water	Sulphate	APHA 23rd Ed.,4500 SO4 ,- E, 4 – 199
966	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part 24) (Turbidity Method)
967	CHEMICAL- WATER	Surface Water	Sulphide	APHA 23rd Ed.,4500 S2 – C, 4 - 183, and F, 4 – 187, D, 4-184.
968	CHEMICAL- WATER	Surface Water	Sulphide	IS: 3025 (Part 29) (Methylene Blue Method)
969	CHEMICAL- WATER	Surface Water	Temperature	APHA 23rd Ed., 2550 – B, 2 – 74.
970	CHEMICAL- WATER	Surface Water	Temperature	IS 3025 (Part 9)
971	CHEMICAL- WATER	Surface Water	Total Cyanide	APHA 23rd Ed.4500-CN, C &E-40
972	CHEMICAL- WATER	Surface Water	Total Cyanide	IS 3025 (Part 27) (Colorimetric Method)
973	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 23rd Ed.,2540 – C, 2 – 69
974	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
975	CHEMICAL- WATER	Surface Water	Total Kjehldal Nitrogen	APHA 4500 N Org-B, 4-139
976	CHEMICAL- WATER	Surface Water	Total Nitrogen	WI/SAP/WW/055 by Calculation
977	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rd Ed.,2540 – B, 2 – 68.
978	CHEMICAL- WATER	Surface Water	Total Solids	IS 3025 (Part 15)
979	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Ed., 2540 – D, 2 – 69.
980	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 (Part 17)
981	CHEMICAL- WATER	Surface Water	Turbidity	APHA 23rd Ed., 2130 – B, 2 – 13
982	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)
983	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity Methyl Orange (M-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36.
984	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity Methyl Orange (M-Alkalinity)	IS 3025 (Part 23)
985	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity Phenolphthalein (P-Alkalinity)	APHA 23rd Ed., 2320- B, 2-36.
986	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity Phenolphthalein (P-Alkalinity)	IS 3025 (Part 23)

SCOPE OF ACCREDITATION

Laboratory Name : MAHABAL ENVIRO ENGINEERS PVT. LTD., PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDAWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7487 **Page No** 52 of 52

Validity 29/06/2021 to 28/06/2023 **Last Amended on** 26/01/2022

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
987	CHEMICAL- WATER	Water for Swimming Pool	Acidity	APHA 23rd Ed., 2310 - B, 2 – 34
988	CHEMICAL- WATER	Water for Swimming Pool	Acidity	IS 3025 (Part 22)
989	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity Total	APHA 23rd Ed., 2320 - B, 2 - 36
990	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity Total	IS 3025 (Part 23)
991	CHEMICAL- WATER	Water for Swimming Pool	Chloride	APHA 23rd Ed., 4500 Cl- - B, 4 - 75
992	CHEMICAL- WATER	Water for Swimming Pool	Chloride	IS 3025 (Part 32) (Argentometric Method)
993	CHEMICAL- WATER	Water for Swimming Pool	Chlorine (Residual)	APHA 23rd Ed., 4500 Cl – G, 4 – 72
994	CHEMICAL- WATER	Water for Swimming Pool	Chlorine (Residual)	IS 3025 (Part 26): (Iodometric method)
995	CHEMICAL- WATER	Water for Swimming Pool	Colour	APHA 23rd Ed., 2120 - B, 2 – 6
996	CHEMICAL- WATER	Water for Swimming Pool	Colour	IS 3025 (Part 4)
997	CHEMICAL- WATER	Water for Swimming Pool	Dissolved Oxygen	APHA 23rd Ed, 4500 O - B, 4-144 & C, 4 -146
998	CHEMICAL- WATER	Water for Swimming Pool	Dissolved Oxygen	IS 3025 (Part 38) (Winkler Method)
999	CHEMICAL- WATER	Water for Swimming Pool	Odour	IS 3025 (Part 05)
1000	CHEMICAL- WATER	Water for Swimming Pool	pH	APHA 23rd Ed., 4500 H+ - B, 4 – 95
1001	CHEMICAL- WATER	Water for Swimming Pool	pH	IS 3025 (Part 11)
1002	CHEMICAL- WATER	Water for Swimming Pool	Taste	IS 3025 (Part-7&8)
1003	CHEMICAL- WATER	Water for Swimming Pool	Total Dissolved Solids	APHA 23rd Ed,, 2540 – C, 2 – 69
1004	CHEMICAL- WATER	Water for Swimming Pool	Total Dissolved Solids	IS 3025 (Part 16)
1005	CHEMICAL- WATER	Water for Swimming Pool	Turbidity	APHA 23rd Ed., 2130 – B, 2 – 13
1006	CHEMICAL- WATER	Water for Swimming Pool	Turbidity	IS 3025 (Part 10)