



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 1 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- ORES & MINERALS	Iron Ore	Loss on Ignition	PAL/SOP/06 Issue No:01: 2017	0.5 % to 15 %
2	CHEMICAL- ORES & MINERALS	Iron Ore	Manganese	IS:1493: 1959, RA 2016	0.1 % to 2 %
3	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorus	IS:1493(part 1): 1981, RA 2016	0.02 % to 0.1 %
4	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	IS:1493(part 1): 1981, RA 2016	0.5 % to 25 %
5	CHEMICAL- ORES & MINERALS	Iron Ore	Total Fe	IS:1493(part 1): 1981, RA 2016	10 % to 70 %
6	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Calcium Oxide	IS:1760(Part 3): 1992, RA 2017	10.0 % to 55.5 %
7	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Loss On Ignition	IS:1760(Part 1): 1991, RA 2017	1 % to 50 %
8	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Magnesium Oxide	IS:1760(Part 3): 1992, RA 2017	0.2 % to 30.0 %
9	CHEMICAL- ORES & MINERALS	Limestone & Dolomite	Silica	IS:1760(Part 2): 1991, RA 2017	0.5 % to 25 %
10	CHEMICAL- POLLUTION & ENVIRONMENT	Ambient Air	Oxides of Nitrogen (NO ₂)	IS: 5182 (Part 7): 2012	5 µg/m ³ to 500 µg/m ³
11	CHEMICAL- POLLUTION & ENVIRONMENT	Ambient Air	Oxides of Sulphur (SO ₂)	IS: 5182 (part 2): 2012	5 µg/m ³ to 500 µg/m ³



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 2 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
12	CHEMICAL- POLLUTION & ENVIRONMENT	Ambient Air	Particulate Matter (Size less than 2.5µm) or PM2.5	USEPA Quality Assurance Hand Book Vol.II Part 1 Quality Assurance Document 2.12: 2012	5 µg/m ³ to 1000 µg/m ³
13	CHEMICAL- POLLUTION & ENVIRONMENT	Ambient air	Particulate Matter (Size less than 10µm) or PM10	IS 5182 (Part 23) :2006: 2012	5 µg/m ³ to 1000 µg/m ³
14	CHEMICAL- POLLUTION & ENVIRONMENT	Ambient Noise	Noise (LMin(Minimum Noise level), LMax(Maximum Noise level) & Leq(Equivalent Noise level))	IS : 9989 :1981: 2008	35 to 130
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Ammonical Nitrogen as NH4-N	APHA 23rd EDITION,4500-NH3, B,C: 2017	1 mg/L to 500 mg/L
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Boron as B	APHA 23rd EDITION,4500-B, B: 2017	0.1 mg/L to 10 mg/L
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Calcium as ca	APHA 23rd EDITION,3500 Ca B, : 2017	1 mg/L to 2000 mg/L
18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Chloride as Cl	APHA 23rd EDITION,4500 Cl B : 2017	1 mg/L to 10000 mg/L
19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Chlorine Residual	APHA 23rd EDITION,4500-Cl, I : 2017	1 mg/L to 100 mg/L
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Conductivity	APHA 23rd EDITION,2510 B, : 2017	1 micromhos/Cm to 50000 micromhos/Cm



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 3 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Nitrite Nitrogen as NO ₂ - N	APHA 23rd EDITION, 4500-NO ₂ , B : 2017	0.01 mg/L to 100 mg/L
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Oil & Grease	APHA 23rd EDITION, 5520D, : 2017	1 mg/L to 1000 mg/L
23	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	pH	APHA 23rd EDITION, 4500 H+B: 2017	1 to 12
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Sulphate as SO ₄	APHA 23rd EDITION, 4500 SO ₄ D : 2017	1 mg/L to 1000 mg/L
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Total Alkalinity as CaCO ₃	APHA 23rd EDITION, 2320 B: 2017	1 mg/L to 1000 mg/L
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Total Dissolved Solids	APHA 23rd EDITION, 2540 C: 2017	1 mg/L to 100000 mg/L
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Total Hardness as CaCO ₃	APHA 23rd EDITION, 2340 C: 2017	1 mg/L to 5000 mg/L
28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Total Phosphate	APHA 23rd EDITION, 4500-P, D,: 2017	0.1 mg/L to 100 mg/L
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent / Sewage	Total Suspended solids	APHA 23rd EDITION, 2540 D: 2017	1 mg/L to 500 mg/L
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Biological oxygen Demand for 3 days at 27 ° C	IS 3025 (Part 44):: 2014	4 mg/L to 40000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 4 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
31	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Chemical oxygen Demand	APHA 23rd EDITION, 5220B: 2017	2 mg/L to 80000 mg/L
32	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Colour	APHA 23rd EDITION, 2120 B: 2017	5 Hazen to 500 Hazen
33	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Dissolved Oxygen	APHA 23rd EDITION, 4500 O: 2017	1 mg/L to 8 mg/L
34	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Fluoride as F	APHA 23rd EDITION, 4500 F,D: 2017	1 mg/L to 100 mg/L
35	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Iron as Fe	APHA 23rd EDITION, 3500 Fe B: 2017	0.02 mg/L to 100 mg/L
36	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Nitrate Nitrogen as NO ₃ - N	APHA 23rd EDITION, 4500 NO ₃ E, IS:3025(Part-34)-1958: 2017	0.1 mg/L to 50 mg/L
37	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Odour	APHA 23rd EDITION, 2150 B: 2017	Qualitative
38	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Percent Sodium	SOP-PAL/TM/W/038 Issue No: 01: 2015	1 % to 100 %
39	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Potassium as K	APHA 23rd EDITION, 3500 K, B: 2017	2 mg/L to 1000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 5 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
40	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Residual Sodium carbonate	IS 11624: 2009	0.1 m.eqs/L to 10 m.eqs/L
41	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Sodium absorption ratio	IS 11624: 2009	1 to 20
42	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Sodium as Na	APHA 23rd EDITION, 3500 Na, B: 2017	1 mg/L to 1000 mg/L
43	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents / Sewage	Turbidity	APHA 23rd EDITION, 2130 B: 2017	0.1 NTU to 100 NTU
44	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/ Sewage	Acidity as CaCO ₃	APHA 23rd EDITION ,2310 B: 2017	1 mg/L to 5000 mg/L
45	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Mixed Liquor suspended solids	APHA 23rd EDITION 2540 A,D,E: 2017	2 mg/L to 1000 mg/L
46	CHEMICAL- POLLUTION & ENVIRONMENT	Stack Emission	Oxides of Nitrogen	IS:11255(Part7) : 2014	2 mg/Nm ³ to 400 mg/Nm ³
47	CHEMICAL- POLLUTION & ENVIRONMENT	Stack Emission	Oxides of Sulphur	IS:11255(Part2) : 2014	5 mg/Nm ³ to 500 mg/Nm ³
48	CHEMICAL- POLLUTION & ENVIRONMENT	Stack Emission	Particulate matter	IS:11255(Part1) : 2009	5 mg/Nm ³ to 500 mg/Nm ³
49	CHEMICAL- WATER	Borewell water /Ground water / Surface water	Calcium as Ca	APHA 23rd EDITION,3500 Ca B: 2017	1 mg/L to 2000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 6 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
50	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Acidity as CaCO ₃	APHA 23rd edition, 2310 B: 2017	1 mg/l to 1000 mg/l
51	CHEMICAL- WATER	Borewell Water / Ground Water / Surface Water	Ammonical Nitrogen as NH ₄ -N	APHA 23rd EDITION ,4500-NH ₃ , B,C: 2017	1 mg/L to 500 mg/L
52	CHEMICAL- WATER	Borewell water / ground water / surface water	Boron as B	APHA 23rd edition , 4500 - B, B: 2017	0.02 mg/L to 10 mg/L
53	CHEMICAL- WATER	Borewell water / Ground Water / Surface Water	Colour	APHA 23rd EDITION,2120 B : 2017	5 Hazen units to 100 Hazen units
54	CHEMICAL- WATER	Borewell Water / Ground water / Surface Water	Conductivity	APHA 23rd EDITION ,2510 B: 2017	1 micromhos/cm to 20000 micromhos/cm
55	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Dissolved Phosphate as PO ₄	APHA 23rd edition , 4500 - P , D: 2017	0.02 mg/L to 2 mg/L
56	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Iron as Fe	APHA 23rd EDITION,3500 Fe B : 2017	0.02 mg/L to 100 mg/L
57	CHEMICAL- WATER	Borewell Water / Ground Water / Surface Water	Magnesium as Mg	APHA 23rd EDITION ,3500 Mg B: 2017	1 mg/L to 1000 mg/L
58	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Nitrate Nitrogen as NO ₃ - N	APHA 23rd EDITION,4500 NO ₃ E, IS:3025(Part-34) : 2017	0.1 mg/L to 50 mg/L
59	CHEMICAL- WATER	Borewell water / ground water / surface water	Nitrite Nitrogen as NO ₂ - N	APHA 23rd edition , 4500 - NO ₂ , B: 2017	0.01 mg/L to 10 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL, HOSPET, BELLARY, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 7 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
60	CHEMICAL- WATER	Borewell water / Ground Water / Surface Water	Odour	APHA 23rd EDITION ,2150 B: 2017	Qualitative(objectionable / Unobjectionable)
61	CHEMICAL- WATER	Borewell water / Ground Water / Surface Water	Percent Sodium	SOP-PAL/TM/W/038: 2015	1 % to 100 %
62	CHEMICAL- WATER	Borewell Water / Ground Water / Surface water	Potassium as K	APHA 23rd EDITION,3500 K, B : 2017	2 mg/L to 1000 mg/L
63	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Residual Sodium carbonate	IS 11624: 2009	0.1 m.eq/L to 10 m.eq/L
64	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Sodium absorption ratio	IS 11624: 2009	1 to 20
65	CHEMICAL- WATER	Borewell water / Ground Water / Surface water	Sodium as Na	APHA 23rd EDITION,3500 Na, B : 2017	1 mg/L to 1000 mg/L
66	CHEMICAL- WATER	Borewell water / Ground water / surface water	Sulphate as SO4	APHA 23rd EDITION ,4500 SO4 D: 2017	1 mg/L to 1000 mg/L
67	CHEMICAL- WATER	Borewell water / Ground Water / Surface water	Total Alkalinity as CaCO3	APHA 23rd EDITION, 2320 B : 2017	1 mg/L to 1000 mg/L
68	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Total Dissolved Solids	APHA 23rd EDITION, 2540 C : 2017	1 mg/L to 10000 mg/L
69	CHEMICAL- WATER	Borewell water / Ground Water / Surface water	Total Hardness as CaCO3	APHA 23rd EDITION,2340 C : 2017	1 mg/L to 5000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PREMIER ANALYTICAL LABORATORIES, BESIDE GOVT. PRIMARY SCHOOL,
HOSPET, BELLARY, KARNATAKA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6193 Page No. : 8 / 8

Validity 07/09/2019 to 06/09/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
70	CHEMICAL- WATER	Borewell water / Ground Water / Surface Water	Total Suspended solids	APHA 23rd EDITION ,2540 D: 2017	1 mg/L to 500 mg/L
71	CHEMICAL- WATER	Borewell water / Ground water / Surface water	Turbidity	APHA 23rd EDITION,2130 B : 2017	0.1 NTU to 100 NTU
72	CHEMICAL- WATER	Borewell water / Surface water / Ground water	pH	APHA -23rd edition, 4500 H+B: 2017	1 to 13.5
73	CHEMICAL- WATER	Borewell Water/ Ground Water / Surface Water	Chloride as Cl	APHA 23rd EDITION, 4500 Cl B : 2017	1 mg/L to 5000 mg/L
74	CHEMICAL- WATER	Borewell water/Surface water/Ground water	Temperature	APHA 23rd EDITION ,2550 B: 2017	20 deg C to 100 deg C