National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SUMS TECHNO LABS PRIVATE LIMITED, PLOT NO. 15-DP2, KIADB, SANKALAPURA INDUSTRIAL AREA, BALLARI ROAD, HOSPET, BALLARI, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 10/04/2022 to 09/04/2024 **Last Amended on** 11/06/2022

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	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia (NH3)	SOP No. SUMSTLPL/SOP/AA/06 Issue No. 02 March 07
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic (As)	SOP No. SUMSTLPL/SOP/AA/09 Issue No. 02 March 07
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	SOP No. SUMSTLPL/SOP/AA/10 Issue No. 01 March 07
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead (Pb)	IS 5182 (Part 22)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel (Ni)	SOP No. SUMSTLPL/SOP/AA/08 Issue No. 02 March 07
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO2)	IS 5182 (Part 6)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone (O3)	IS 5182 (Part 9)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size less than 10µm or PM 10)	IS 5182 (Part 23)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size less than 2.5 µm or PM 2.5)	SOP No. SUMSTLPL/SOP/AA/04 Issue No. 02 March 07
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Levels	Noise Level (Leq, Lmin, Lmax)	IS 9989
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen as NOx	IS 11255 (Part 7)
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS 11255 (Part 1)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur dioxide as SO2	IS 11255 (Part 2)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Velocity	IS 11255 (Part 3)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Volume of Gas Discharged	IS 11255 (Part 3)
17	CHEMICAL- ORES & MINERALS	Bauxite ore	Alumina as Al2O3	IS 2000 (Part 3)
18	CHEMICAL- ORES & MINERALS	Bauxite ore	Ferric Oxide as Fe2O3	IS 2000 (Part 4)

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19	CHEMICAL- ORES & MINERALS	Bauxite ore	Loss on Ignition	IS 2000 (Part 1)
20	CHEMICAL- ORES & MINERALS	Bauxite ore	Silica as SiO2	IS 2000 (Part 2)
21	CHEMICAL- ORES & MINERALS	Bauxite ore	Titania as TiO2	IS 2000 (Part 5)
22	CHEMICAL- ORES & MINERALS	Iron ores	Alumina as Al2O3	IS 1493 (Part 1)
23	CHEMICAL- ORES & MINERALS	Iron ores	Loss on Ignition	ISO 11536
24	CHEMICAL- ORES & MINERALS	Iron ores	Manganese as Mn	IS 1493
25	CHEMICAL- ORES & MINERALS	Iron ores	Phosphorus as P	IS 1493 (Part 1)
26	CHEMICAL- ORES & MINERALS	Iron ores	Silica as SiO2	IS 1493 (Part 1)
27	CHEMICAL- ORES & MINERALS	Iron ores	Sulphur as S	IS 1493 (Part 1)
28	CHEMICAL- ORES & MINERALS	Iron ores	Total Fe	IS 1493 (Part 1)
29	CHEMICAL- ORES & MINERALS	Limestone & Dolomite	Alumina as Al2O3	IS 1760 (Part 3)
30	CHEMICAL- ORES & MINERALS	Limestone & Dolomite	Calcium oxide as CaO	IS 1760 (Part 3)
31	CHEMICAL- ORES & MINERALS	Limestone & Dolomite	Ferric Oxide as Fe2O3	IS 1760 (Part 3)
32	CHEMICAL- ORES & MINERALS	Limestone & Dolomite	Loss on Ignition	IS 1760 (Part 1)
33	CHEMICAL- ORES & MINERALS	Limestone & Dolomite	Magnesium oxide as MgO	IS 1760 (Part 3)
34	CHEMICAL- ORES & MINERALS	Limestone & Dolomte	Silica as SiO2	IS 1760 (Part 2)
35	CHEMICAL- ORES & MINERALS	Manganese ores	Alumina as Al2O3	IS 1473
36	CHEMICAL- ORES & MINERALS	Manganese ores	Manganese as Mn	IS 1473
37	CHEMICAL- ORES & MINERALS	Manganese ores	Phosphorus as P	IS 1473

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38	CHEMICAL- ORES & MINERALS	Manganese ores	Silica as SiO2	IS 1473
39	CHEMICAL- ORES & MINERALS	Manganese ores	Sulphur as S	IS 1473
40	CHEMICAL- ORES & MINERALS	Manganese ores	Total Iron as Fe	IS 1473
41	CHEMICAL- ORES & MINERALS	Quartzite	Loss on Ignition	IS 1917 (Part 1)
42	CHEMICAL- ORES & MINERALS	Quartzite	Silica as SiO2	IS 1917 (Part 3)
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent / Sewage)	Nitrate as NO3	IS 3025 (Part-34)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	pH @ 25 C	APHA 23rd Edition 4500 H+
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity	APHA 23rd Edition 2310 B
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Arsenic	APHA 23rd Edition 3114 B
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biological Oxygen Demand @ 27 C for 3 Days	IS 3025 (Part 44)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Boron as B	APHA 23rd Edition 4500-B, B
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium	APHA 23rd Edition 3111 B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium as Ca	APHA 23rd Edition 3500 Ca B
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	APHA 23rd Edition 5220 B
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride as Cl	APHA 23rd Edition 4500 Cl B
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chromium	APHA 23rd Edition 3111 B
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Colour	APHA 23rd Edition 2120 B
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity @ 25 C	APHA 23rd Edition 2510 B
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride as F	APHA 23rd Edition 4500 F D

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron as Fe	APHA 23rd Edition 4500 Fe B
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Lead	APHA 23rd Edition 3111 B
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium as Mg	APHA 23rd Edition 3500 Mg B
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese	APHA 23rd Edition 3111 B
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mercury	APHA 23rd Edition 3112 B
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA 23rd Edition 5520 B
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenol	APHA 23rd Edition 5530 D
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium as K	APHA 23rd Edition 3500 K B
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium as Na	APHA 23rd Edition 3500 Na B
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate as SO4	APHA 23rd Edition 4500 SO4 E
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA 23rd Edition 2540 C
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids Dried at 103 - 105 C	APHA 23rd Edition 2540 B
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids Dried at 103 - 105 C	APHA 23rd Edition 2540 D
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA 23rd Edition 2530 B
74	CHEMICAL- RESIDUES IN WATER	Ground Water	Boron as B	APHA 23rd Edition 4500-B, B
75	CHEMICAL- RESIDUES IN WATER	Ground Water	Iron as Fe	APHA 23rd Edition 4500Fe B

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76	CHEMICAL- RESIDUES IN WATER	Ground Water	Potassium as K	APHA 23rd Edition 3500 K B
77	CHEMICAL- RESIDUES IN WATER	Ground Water	Sodium as Na	APHA 23rd Edition 3500 Na B
78	CHEMICAL- RESIDUES IN WATER	Surface Water	Boron as B	APHA 23rd Edition 4500B B
79	CHEMICAL- RESIDUES IN WATER	Surface Water	Iron as Fe	APHA 23rd Edition 4500 Fe B
80	CHEMICAL- RESIDUES IN WATER	Surface Water	Potassium as K	APHA 23rd Edition 3500 K B
81	CHEMICAL- RESIDUES IN WATER	Surface Water	Sodium as Na	APHA 23rd Edition 3500 Na B
82	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluent/ Sewage)	Arsenic	APHA 23rd Edition 3114 B
83	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluent/Sewage)	Chromium	APHA 23rd Edition 3111 B
84	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluent/Sewage)	Lead	APHA 23rd Edition 3111 B
85	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluent/Sewage)	Manganese	APHA 23rd Edition 3111 B
86	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluents/Sewage)	Phenol	APHA 23rd Edition 5530 D
87	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluents/Sewage)	Potassium as K	APHA 23rd Edition 3500 K B
88	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluents/Sewage)	Sodium as Na	APHA 23rd Edition 3500Na B
89	CHEMICAL- RESIDUES IN WATER	Waste Water (Effluent/Sewage)	Boron as B	APHA 23rd Edition 4500B B
90	CHEMICAL- RESIDUES IN WATER	Waste Water(Effluent/Sewage)	Mercury	APHA 23rd Edition 3112 B
91	CHEMICAL- RESIDUES IN WATER	Waste Water(Effluents/Sewage)	Iron as Fe	APHA 23rd Edition 4500Fe B
92	CHEMICAL- SOIL AND ROCK	Soil and Clays	Available Iron	SOP NO.SUMSTLPL/SOP/SOIL/14 Issue No.02 March 07
93	CHEMICAL- SOIL AND ROCK	Soil and Clays	Extractable Calcium as Ca	SOP NO.SUMSTLPL/SOP/SOIL/10 Issue No.02 March 07

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94	CHEMICAL- SOIL AND ROCK	Soil and Clays	Extractable Magnesium	SOP NO.SUMSTLPL/SOP/SOIL/11 Issue No.02 March 07
95	CHEMICAL- SOIL AND ROCK	Soil and Clays	Extractable/Available Potassium as K	SOP NO.SUMSTLPL/SOP/SOIL/08 Issue No.02 March 07
96	CHEMICAL- SOIL AND ROCK	Soil and Clays	pH	IS 2720 (Part 2)
97	CHEMICAL- SOIL AND ROCK	Soil and Clays	Water Content	IS 2720 (Part 2)
98	CHEMICAL- SOIL AND ROCK	Soils and Clays	Available Manganese	SOP NO.SUMSTLPL/SOP/SOIL/16 Issue No.02 March 07
99	CHEMICAL- SOIL AND ROCK	Soils and Clays	Available Nitrogen as N	SOP NO.SUMSTLPL/SOP/SOIL/06 Issue No.02 March 07
100	CHEMICAL- SOIL AND ROCK	Soils and Clays	Available Phosphorous as P2O5	SOP NO.SUMSTLPL/SOP/SOIL/07 Issue No.02 March 07
101	CHEMICAL- SOIL AND ROCK	Soils and Clays	Available Zinc	SOP NO.SUMSTLPL/SOP/SOIL/15 Issue No.02 March 07
102	CHEMICAL- SOIL AND ROCK	Soils and Clays	Conductivity	IS 14767
103	CHEMICAL- SOIL AND ROCK	Soils and Clays	Extractable/Available Sodium as Na	SOP NO.SUMSTLPL/SOP/SOIL/09 Issue No.02 March 07
104	CHEMICAL- SOIL AND ROCK	Soils and Clays	Organic Matter	IS 2720 (Part 22)
105	CHEMICAL- SOIL AND ROCK	Soils and Clays	Soluble Chloride as Cl	SOP NO.SUMSTLPL/SOP/SOIL/12 Issue No.02 March 07
106	CHEMICAL- SOIL AND ROCK	Soils and Clays	Total Soluble Sulphates as SO4	IS 2720(Part-27)
107	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350(Part-1)
108	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350(Part-1)
109	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 (Part-2)
110	CHEMICAL- SOLID FUELS	Coal	Moisture (Air Dry Basis)	IS 1350(Part-1)
111	CHEMICAL- SOLID FUELS	Coal	Sulphur	ASTM (E775) 15

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112	CHEMICAL- SOLID FUELS	Coal	Total Moisture	IS 1350 (Part-1)
113	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part-1)
114	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Edition 3500 Ca B
115	CHEMICAL- WATER	Ground Water	Chloride as Cl	APHA 23rd Edition 4500 Cl B
116	CHEMICAL- WATER	Ground Water	Colour	APHA 23rd Edition 2120 B
117	CHEMICAL- WATER	Ground Water	Conductivity @ 25 C	APHA 23rd Edition 2510 B
118	CHEMICAL- WATER	Ground Water	Fluoride as F	APHA 23rd Edition 4500 F D
119	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edition 3500 Mg B
120	CHEMICAL- WATER	Ground Water	Nitrate as NO3	IS 3025(Part 34) 3B
121	CHEMICAL- WATER	Ground Water	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
122	CHEMICAL- WATER	Ground Water	pH @ 25 C	APHA 23rd Edition 4500H+
123	CHEMICAL- WATER	Ground Water	Potassium as K	APHA 23rd Edition 3500 K B
124	CHEMICAL- WATER	Ground Water	Sodium as Na	APHA 23rd Edition 3500 Na B
125	CHEMICAL- WATER	Ground Water	Sulphate as SO4	APHA 23rd Edition 4500 SO4 E
126	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B
127	CHEMICAL- WATER	Ground Water	Total Dissolved Solids @ 180 C	APHA 23rd Edition 2540 C
128	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
129	CHEMICAL- WATER	Ground Water	Turbidity	APHA 23rd Edition 2530 B
130	CHEMICAL- WATER	Surface Water	Calcium as Ca	APHA 23rd Edition 3500Ca B
131	CHEMICAL- WATER	Surface Water	Chloride as Cl	APHA 23rd Edition 4500Cl B
132	CHEMICAL- WATER	Surface Water	Colour	APHA 23rd Edition 2120 B
133	CHEMICAL- WATER	Surface Water	Conductivity @ 25 C	APHA 23rd Edition 2510 B
134	CHEMICAL- WATER	Surface Water	Fluoride as F	APHA 23rd Edition 4500 F D
135	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA 23rd Edition 3500 Mg B
136	CHEMICAL- WATER	Surface Water	Nitrate as NO3	IS 3025(Part 34) 3B
137	CHEMICAL- WATER	Surface Water	Nitrite as NO2	APHA 23rd Edition 4500 NO2 B
138	CHEMICAL- WATER	Surface Water	pH@25 C	APHA 23RD Edition 4500H+
139	CHEMICAL- WATER	Surface Water	Potassium as K	APHA 23rd Edition 3500 K B
140	CHEMICAL- WATER	Surface Water	Sodium as Na	APHA 23rd Edition 3500 Na B
141	CHEMICAL- WATER	Surface Water	Sulphate as SO4	APHA 23rd Edition 4500 SO4 E

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142	CHEMICAL- WATER	Surface Water	Total Alkalinity as CaCO3	APHA 23rd Edition 2320 B
143	CHEMICAL- WATER	Surface Water	Total Dissolved Solids @ 180 C	APHA 23rd Edition 2540 C
144	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
145	CHEMICAL- WATER	Surface Water	Turbidity	APHA 23rd Edition 2530 B