



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NAKSHATRA ENVIRO SERVICES, PLOT NO-46, SOLITAIRE INDUSTRIAL PARK, BAGRU (EXT.) DAHMI KALAN, BAGRU, JAIPUR, RAJASTHAN , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7334 Page No. : 1 / 11

Validity 09/12/2018 to 08/12/2020 Last Amended on 27/01/2019

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

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-ATMOSPHERIC POLLUTION	Ambient Air	Ammonia as NH ₃	NES/AIR/TP/06 CPCB Guidelines NAAQMS/36: 2012	5 mg/m ³ to 400 mg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Arsenic	NES/AIR/TP/08 CPCB Guidelines NAAQMS/36: 2012	5 ng/m ³ to 10 ng/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide (CO)	IS 5182 (Part 10): 2014	10 mg/m ³ to 2000 mg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Lead	IS 5182 (Part 22): 2014	0.01 ug/m ³ to 10 ug/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Nickel	NES/AIR/TP/07 CPCB Guidelines NAAQMS/36: 2012	1 ng/m ³ to 20 ng/m ³
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen (NO ₂)	IS 5182 (Part 6): 2017	6 µg/m ³ to 750 µg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ozone	IS 5182 (Part 9): 2014	19.6 µg/m ³ to 19620 µg/m ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM 2.5)	NES/AIR/TP/03 CPCB Guidelines NAAQMS/36/: 2012	20 µg/m ³ to 1000 µg/m ³
9	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 23): 2017	20 µg/m ³ to 1000 µg/m ³



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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
10	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2014	6 µg/m ³ to 1050 µg/m ³
11	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Suspended Particulate Matter	IS 5182 (Part-4): 2014	20 µg/m ³ to 2000 µg/m ³
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	CO	IS 13270: 2014	0.2 % to 10 %
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	CO ₂	IS 13270: 2014	0.2 % to 20 %
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	O ₂	IS 13270: 2014	0.2 % to 20 %
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen (NO ₂)	IS 11255 (part 7): 2017	2 mg/m ³ to 400 mg/m ³
16	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS 11255 (Part 1): 2014	10 mg/m ³ to 2000 mg/m ³
17	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide (SO ₂)	IS 11255 (Part 2): 2014	3 mg/m ³ to 500 mg/m ³
18	CHEMICAL- ORES & MINERALS	Feldspar	Alumina as Al ₂ O ₃	IS9749: 2013	0.50 % to 40.0 %
19	CHEMICAL- ORES & MINERALS	Feldspar	Calcium Oxide as CaO	IS9749: 2013	0.50 % to 10.0 %



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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
20	CHEMICAL- ORES & MINERALS	Feldspar	loss on ignition	IS 9749: 2013	0.50 % to 20.0 %
21	CHEMICAL- ORES & MINERALS	Feldspar	Magnesium Oxide as MgO	IS9749: 2013	0.50 % to 10.0 %
22	CHEMICAL- ORES & MINERALS	Feldspar	Potassium Oxide	IS9749: 2013	0.4 % to 20.0 %
23	CHEMICAL- ORES & MINERALS	Feldspar	Silica asSiO ₂	IS9749: 2013	1.0 % to 75.0 %
24	CHEMICAL- ORES & MINERALS	Feldspar	Sodium Oxide	IS9749: 2013	0.4 % to 20.0 %
25	CHEMICAL- ORES & MINERALS	iron ores	Alumina as Al ₂ O ₃	IS1493(part1): 2013	0.5 % to 15.0 %
26	CHEMICAL- ORES & MINERALS	iron ores	Ferric Oxide asFe ₂ O ₃	IS1493(part1): 2013	10.0 % to 98.0 %
27	CHEMICAL- ORES & MINERALS	Iron ores	Silica as SiO ₂	IS1493(part1): 2013	0.5 % to 50.0 %
28	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Alumina as Al ₂ O ₃	IS1760(part3): 2013	0.50 % to 25.0 %
29	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Calcium Oxide as CaO	IS1760(part3): 2013	0.5 % to 56.0 %
30	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Ferric Oxide as Fe ₂ O ₃	IS1760(part3): 2013	0.2 % to 15.0 %
31	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Loss on Ignition	IS1760(part1): 2013	1.0 % to 50.0 %
32	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Loss on Ignition	IS1760(part1): 2013	1.0 % to 50.0 %
33	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Magnesium Oxide as MgO	IS1760(part3): 2013	0.5 % to 45.0 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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34	CHEMICAL- ORES & MINERALS	Limestone & dolomite	Silica as SiO ₂	IS1760(part2): 2013	0.50 % to 30 %
35	CHEMICAL- ORES & MINERALS	Quartz/Silica	Loss on ignition	IS1917(part1): 2013	0.5 % to 10.0 %
36	CHEMICAL- ORES & MINERALS	Quartz/Silica	Silica as SiO ₂	IS1917(part3): 2013	15.0 % to 99.0 %
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Ammonical Nitrogen	IS 3025 (Part 34): 2003	1 mg/l to 100 mg/l
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Biological Oxygen Demand	IS 3025 (Part 44): 1996	3 mg/l to 2000 mg/l
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Calcium as CaCO ₃	IS 3025 (Part 40): 2003	2 mg/l to 100 mg/l
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chemical Oxygen Demand	IS 3025 (Part 58): 2006	4 mg/l to 20000 mg/l
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Chloride as Cl	IS 3025 (part 32): 2003	0.5 mg/l to 1000 mg/l
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Dissolved Oxygen	IS 3025 (Part 38): 2003	0.1 mg/l to 20 mg/l
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Fluoride as F	IS 3025 (Part 60): 2008	0.1 mg/l to 10 mg/l



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44	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Hexavalent Chromium as Cr+6	IS 3025 (Part 52): 2003	0.02 mg/l to 50 mg/l
45	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Iron as Fe+2	IS 3025 (Part 53): 2003	0.1 mg/l to 10 mg/l
46	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Magnesium as Mg	IS 3025 (Part 46): 2003	2 mg/l to 1000 mg/l
47	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrate	IS 3025 (Part 34): 2003	1 mg/l to 300 mg/l
48	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Nitrite	IS 3025 (Part 34): 2003	1 mg/l to 50 mg/l
49	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Oil & Grease	IS 3025 (Part 39): 2003	1 mg/l to 800 mg/l
50	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	pH Value	IS 3025 (Part 11): 2002	4 to 12
51	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Phosphate (as P)	IS 3025 (Part 31): 2013	0.1 mg/l to 50 mg/l
52	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Potassium as K	IS 3025 (Part 45): 2003	0.1 mg/l to 20 mg/l



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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
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluent/Sewage)	Turbidity	IS 3025 (Part 10): 2002	1 NTU to 100 NTU
63	CHEMICAL- SOIL AND ROCK	soil	calcium carbonate	IS 2720 (part 23): 2013	1 % to 20 %
64	CHEMICAL- SOIL AND ROCK	Soil	Electrical Conductivity	IS 14767: 2013	15 μ S to 5000 μ S
65	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS2720(part22): 2013	0.5 % to 30 %
66	CHEMICAL- SOIL AND ROCK	Soil	pH Value	IS 2720 (Part 26): 2013	2 to 12
67	CHEMICAL- SOIL AND ROCK	soil	Potassium	IS9497: 2013	0.02 to 10 %
68	CHEMICAL- SOIL AND ROCK	soil	Sodium	IS 9497: 2013	0.1 % to 20 %
69	CHEMICAL- SOIL AND ROCK	soil	Sodium	IS 9497: 2013	0.1 % to 20 %
70	CHEMICAL- SOIL AND ROCK	Soil	Specific Gravity	IS2720(part3/sec1): 2013	2 % to 4 %
71	CHEMICAL- SOIL AND ROCK	Soil	Sulphate	IS2720(part27): 2013	0.1 % to 10 %
72	CHEMICAL- SOIL AND ROCK	soil	Total Nitrogen	IS14684: 2013	0.1 % to 20 %
73	CHEMICAL- SOIL AND ROCK	soil	Total Soluble Solids	IS2720(part21): 2013	0.1 % to 2 %
74	CHEMICAL- SOIL AND ROCK	soil	water content	IS2720(part2): 2013	0.5 % to 50 %



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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
75	CHEMICAL- WATER	Construction Water	Acidity (100 ml sample of water)	IS 3025: 2013	0.1 to 100
76	CHEMICAL- WATER	Construction Water	Alkalinity (100 sample of water)	IS 3025 (part 23): 2013	0.1 ml to 100 ml
77	CHEMICAL- WATER	Construction Water	Chlorides	IS 3025 (Part 32): 2013	0.5 mg/l to 2000 mg/l
78	CHEMICAL- WATER	Construction Water	Inorganic Matter	IS 3025 (Part 18): 2013	5 mg/l to 3000 mg/l
79	CHEMICAL- WATER	Construction Water	Organic Matter	IS 3025 (Part 18): 2013	5 mg/l to 2000 mg/l
80	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11): 2013	2.0 to 12.0
81	CHEMICAL- WATER	Construction water	Sulphate	IS 3025 (Part 24): 2013	1 mg/l to 400 mg/l
82	CHEMICAL- WATER	Construction Water	Total Suspended Matter	IS 3025: 2013	5 mg/l to 2000 mg/l
83	CHEMICAL- WATER	Drinking Water	Bio-chemical Oxygen Demand	IS3025(part44): 2013	1.0 mg/l to 2000.0 mg/l
84	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS3025(part40): 2013	2.0 mg/l to 100.0 mg/l
85	CHEMICAL- WATER	Drinking Water	COD	IS3025(part58): 2013	4.0 mg/l to 5000.0 mg/l
86	CHEMICAL- WATER	Drinking water	Color	IS3025(part4): 2013	1.0 Hazen to 500.0 Hazen
87	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS3025(part38): 2013	0.01 mg/l to 20.0 mg/l
88	CHEMICAL- WATER	Drinking Water	Fluoride as F	IS3025(Part60): 2013	0.1 mg/l to 10.0 mg/l
89	CHEMICAL- WATER	Drinking Water	Iron as Fe	IS3025(part53): 2013	0.01 mg/l to 1.0 mg/l
90	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS3025(part46): 2013	1.0 mg/l to 100.0 mg/l
91	CHEMICAL- WATER	Drinking Water	Nitrate	IS3025(part34): 2013	1.0 mg/l to 200.0 mg/l
92	CHEMICAL- WATER	Drinking Water	Nitrite	IS3025(part34): 2013	0.2 mg/l to 10.0 mg/l



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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
93	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS3025(part39): 2013	1.0 mg/l to 50.0 mg/l
94	CHEMICAL- WATER	Drinking Water	pH	IS3025(part11): 2013	2.0 to 12.0
95	CHEMICAL- WATER	Drinking Water	Phosphorous (as P)	IS3025(part31): 2013	0.1 mg/l to 100.0 mg/l
96	CHEMICAL- WATER	Drinking Water	Potassium	IS3025(part45): 2013	1.0 mg/l to 100.0 mg/l
97	CHEMICAL- WATER	Drinking Water	Residual Free Chlorine	IS3025(part26): 2013	0.1 mg/l to 10.0 mg/l
98	CHEMICAL- WATER	Drinking Water	sodium	IS3025(part45): 2013	1.0 mg/l to 50.0 mg/l
99	CHEMICAL- WATER	Drinking Water	Specific Conductance	IS3025(part14): 2013	0.01 mg/l to 1000.0 mg/l
100	CHEMICAL- WATER	Drinking Water	Sulphate	IS3025(part24): 2013	2.0 mg/l to 200.0 mg/l
101	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO ₃	IS3025(part23): 2013	5.0 mg/l to 1000.0 mg/l
102	CHEMICAL- WATER	Drinking Water	Total Chromium as Cr	IS3025(part52): 2013	0.04 mg/l to 5.0 mg/l
103	CHEMICAL- WATER	Drinking Water	Total Dissolved Solid	IS3025(part16): 2013	5.0 mg/l to 1000.0 mg/l
104	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO ₃	IS3025(part21): 2013	10.0 mg/l to 500.0 mg/l
105	CHEMICAL- WATER	Drinking Water	Total Residue	IS3025(part10): 2013	5.0 mg/l to 1000.0 mg/l
106	CHEMICAL- WATER	Drinking Water	Total Suspended Solid	IS3025(part17): 2013	5.0 mg/l to 1000.0 mg/l
107	CHEMICAL- WATER	Drinking Water	Turbidity	IS3025(part): 2013	1 NTU to 100 NTU
108	CHEMICAL- WATER	Drinking Water/ Surface Water	Aluminum as Al	IS 3025 (Part 55): 2013	0.01 mg/l to 10 mg/l
109	CHEMICAL- WATER	Drinking Water/ Surface Water	Arsenic	IS 3025 (Part 37): 2013	0.005 mg/l to 10 mg/l



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110	CHEMICAL- WATER	Drinking Water/ Surface Water	Boron as B	IS 3025 (Part 57): 2013	0.005 mg/l to 10 mg/l
111	CHEMICAL- WATER	Drinking Water/ Surface Water	Cadmium	IS 3025 (Part 41): 2013	0.005 mg/l to 10 mg/l
112	CHEMICAL- WATER	Drinking Water/ Surface Water	Chromium	IS 3025 (Part 52): 2013	0.005 mg/l to 10 mg/l
113	CHEMICAL- WATER	Drinking Water/ Surface Water	Cobalt	APHA(22nd Edition) 3111 B: 1992	0.005 mg/l to 10 mg/l
114	CHEMICAL- WATER	Drinking Water/ Surface Water	Iron as Fe	IS 3025 (Part 53): 2013	0.005 mg/l to 10 mg/l
115	CHEMICAL- WATER	Drinking Water/ Surface Water	Lead	IS 3025 (Part 47): 2013	0.005 mg/l to 10 mg/l
116	CHEMICAL- WATER	Drinking Water/ Surface Water	Mercury as Hg	IS 3025 (Part 48): 2013	0.005 mg/l to 10 mg/l
117	CHEMICAL- WATER	Drinking Water/ Surface Water	Nickel as Ni	IS 3025 (Part 54): 2013	0.005 mg/l to 10 mg/l
118	CHEMICAL- WATER	Drinking Water/ Surface Water	Phenolic Compounds (as C ₆ H ₅ OH)	IS 3025 (Part 43): 2013	0.1 mg/l to 100 mg/l
119	CHEMICAL- WATER	Drinking Water/ Surface Water	Polynuclear Aromatic HydroCarbons (as PAH)	APHA 6440: 2013	0.1 mg/l to 100 mg/l
120	CHEMICAL- WATER	Drinking Water/ Surface Water	Silver as Ag	IS 13428: 2013	0.005 mg/l to 10 mg/l
121	CHEMICAL- WATER	Drinking Water/ Surface Water	Zinc	IS 3025 (Part 49): 2013	0.005 mg/l to 10 mg/l
122	CHEMICAL- WATER	Drinking Water/Surface Water	Copper	IS 3025 (Part 42): 2013	0.005 mg/l to 10 mg/l



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Site Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Level	Noise Level	IS 9989: 2014	30 dB to 134 Leq dB