



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SAHARSH EHS SERVICES PVT LTD, 122-124, HIGH FIELD ASCOT, VIP ROAD, VESU, SURAT, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8429 Page No. : 1 / 45

Validity 12/04/2019 to 11/04/2021 Last Amended on -

'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	Air, Gas & Atmosphere	Ammonia	Guidelines for Manual Sampling & Analysis Vol.I (May-2011): CPCB (MoEF, Govt. of India) Contents Sr. No. (6),P.g. no.35-38Indophenol Blue Method: 2011	2 µg/m3 to 700 µg/m3
2	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Chlorine	IS: 5182 (Part - 19),1982 (Reaffirmed 2014): 2014	5 µg/m3 to 2000 µg/m3
3	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	NOX	IS: 5182 (Part – 06), 2006 (Reaffirmed 2017): 2017	5 µg/m3 to 500 µg/m3
4	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Ozone	IS : 5182 (Part-9):1974, CPCB Guideline for sampling & Analysis of Ozone in Ambient Air (Reaffirmed 2003) : 2003	0.1 µg/m3 to 11 µg/m3
5	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	PM 2.5	QP/5.4/01-(b) :CPCB guideline Contents Sr. No. (4), P.g. no.15-30 & Operation Manual(Using Fine Particulate Machine) Gravimetric Method: 2018	10 µg/m3 to 200 µg/m3



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6	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	RSPM (PM10)	IS: 5182 (Part - 23), 2006 (Reaffirmed 2017): 2017	20 µg/m ³ to 500 µg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	SO ₂	IS: 5182 (Part - 2), 2001 Reaffirmed 2017): 2017	5 µg/m ³ to 600 µg/m ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Ammonia	IS:11255(Part-6),1999 (Reaffirmed 2014): 2014	5 mg/Nm ³ to 500 mg/Nm ³
9	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	CO	QR/5.4/01(d), Flue Gas Analyzer USEPA Method-10-1996: 2014	10 % to 10000 %
10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flow Rate	IS:1125(Part 3): 2008	0 mtr ³ /hr to 50 mtr ³ /hr
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Hydrogen Sulphide	IS : 11255 (Part-4): 2017	5 µg/m ³ to 50 µg/m ³
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	NO ₂	IS:11255 (Part-7), 2005 (Reaffirmed 2017): 2017	5 mg/Nm ³ to 400 mg/Nm ³
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	PM	IS: 11255 (Part – 1):1985 (Reaffirmed 2014): 2014	10 mg/Nm ³ to 1500 mg/Nm ³
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	SO ₂	IS: 11255 (Part–2), 1985 (Reaffirmed 2014): 2014	5 mg/Nm ³ to 1000 mg/Nm ³



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15	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)1993 (3 days at 270.C): 2014	10 mg/l to 25000 mg/l
16	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Chemical Oxygen Demand	APHA (23rd Ed.) 5220-B Standard Method (5-18) Open Reflux Method: 2017	1 mg/l to 95000 mg/l
17	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Chloride	APHA (23rd Ed.) 4500Cl-B Standard Method (4-75) Argentometric method: 2017	5 mg/l to 30000 mg/l
18	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.2 µS/cm to 200 mS/cm
19	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Cyanide	APHA 4500 CN E Standard Method (23 rd edition): 2017	0.1 mg/l to 100 mg/l
20	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Flouride	APHA (23rd Ed.) 4500F—D Standard Method (4-90) SPANDS Method Ion selective electrode method: 2017	0.1 mg/l to 100 mg/l
21	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Oil & Grease	APHA(23rd Ed.) 5520 B Standard Method (5-42) Liquid-Liquid Partition Gravimetric Method : 2017	0.2 mg/l to 1000 mg/l



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22	CHEMICAL- POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APHA (23rd Ed.) 4500- H+- BStandardMethod(4- 95) Electrometric Method: 2017	1 pH to 14 pH
23	CHEMICAL- POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Phenolic Compound	APHA (23rd Ed.) 5530 D Standard Method (5- 52) Direct Photometric Method: 2017	0.1 mg/l to 100 mg/l
24	CHEMICAL- POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Potassium	APHA (23rd Ed.) 3500K-B Standard Method (3-89) Flame Photometric Method: 2017	0.1 mg/l to 5000 mg/l
25	CHEMICAL- POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	sulfate	APHA (23rd Ed.) 4500 SO4-E Standard Method (4-199) Turbidimetric Method: 2017	2 ml/g to 5000 ml/g
26	CHEMICAL- POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Sulfide	APHA (23rd Ed.) 4500 S2- F Standard Method (4-187) Iodometric Method: 2017	1 mg/l to 100 mg/l
27	CHEMICAL- POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Total Dissolved Solid	APHA (23rd Ed.) 2540- C Standard Method (2- 69): 2017	10 mg/l to 50000 mg/l



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28	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Total solids	APHA (23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 50000 mg/l
29	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-E Standard Method (2-71): 2017	2 mg/l to 10000 mg/l
30	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-E Standard Method (2-71): 2017	2 mg/l to 10000 mg/l
31	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Acidity	APHA (23rd Ed.) 2310-B Standard Method (2-34) Titration Method: 2017	1 mg/l to 5000 mg/l
32	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Sodium	APHA (23rd Ed.) 3500Na-B Standard Method (3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 10000 mg/l
33	CHEMICAL-POLLUTION & ENVIRONMENT	Haz waste /Solid Waste/ Leachate	Total Suspended Solids	APHA (23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 10000 mg/l
34	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Acidity	APHA (23rd Ed.) 2310-B Standard Method (2-34) Titration Method: 2017	1 µg/m3 to 5000 µg/m3
35	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen	APHA (23rd Ed.) 4500 NH3-B & C Standard Method(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 3000 mg/l



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36	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biological Oxygen Demand (3 Days @27°C)	IS:3025 (P-44)1993 (3 days at 270.C) : 2014	10 mg/l to 25000 mg/l
37	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	APHA (23rd Ed.) 5220-B Standard Method (5-18) Open Reflux Method: 2017	1 mg/l to 95000 mg/l
38	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride	APHA (23rd Ed.) 4500Cl-B Standard Method (4-75) Argentometric method: 2017	5 mg/l to 30000 mg/l
39	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color	APHA (23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method.: 2017	2 CU to 500 CU
40	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 µS/m to 200 mS/cm
41	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cyanide	APHA 4500 CN E Standard Method (23rd edition): 2017	0.1 mg/l to 100 mg/l
42	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride	APHA (23rd Ed.) 4500F—D Standard Method (4-90) SPANDS Method Ion selective electrode method : 2017	0.1 mg/l to 100 mg/l



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43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 30 mg/l
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	APHA(23rd Ed.) 5520 B Standard Method (5- 42) Liquid-Liquid Partition Gravimetric Method : 2017	0.2 mg/l to 1000 mg/l
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APHA (23rd Ed.) 4500- H+- BStandardMethod(4- 95) Electrometric Method: 2002	1 pH to 14 pH
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compound	APHA (23rd Ed.) 5530 D Standard Method (5- 52) Direct Photometric Method: 2017	0.1 mg/l to 100 mg/l
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method: 2017	0.1 mg/l to 100 mg/l



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48	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Potassium	APHA (23rd Ed.) 3500K-B Standard Method (3-89) Flame Photometric Method: 2017	0.1 mg/l to 5000 mg/l
49	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Residual Chlorine	APHA (23rd Ed.) 4500-B & C Standard Method (4-63,64,65) Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
50	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sodium	APHA (23rd Ed.) 3500Na-B Standard Method (3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 10000 mg/l
51	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate	APHA (23rd Ed.) 4500 SO4-E Standard Method (4-199) Turbidimetric Method: 2017	2 mg/l to 5000 mg/l
52	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide	APHA (23rd Ed.) 4500 S2- F Standard Method (4-187) Iodometric Method: 2017	1 mg/l to 100 mg/l
53	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984 (Reaffirmed 2017): 2017	2 °C to 99 °C



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54	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 50000 mg/l
55	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Solids	APHA (23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 50000 mg/l
56	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA (23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 10000 mg/l
57	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	APHA (23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU
58	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-E Standard Method (2-71): 2017	2 mg/l to 10000 mg/l
59	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-E Standard Method (2-71): 2017	2 mg/l to 10000 mg/l
60	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Alkalinity	APHA (23rd Ed.) 2320-B Standard Method (2-37) Titration Method: 2017	1 mg/l to 10000 mg/l
61	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	APHA (23rd Ed.) 4500O-C Standard Method Azide Modification (4-146, 149) Membrane Electrode Method : 2017	0.1 mg/l to 15 mg/l



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62	CHEMICAL- POLLUTION & ENVIRONMENT	Water	Boron as B	APHA (23rd Ed.) 4500B-B Standard Method (4-27) Curcumin Method: 2017	0.4 mg/l to 10 mg/l
63	CHEMICAL- POLLUTION & ENVIRONMENT	Water	Hexavalent Chromium	APHA (23rd Ed.) 3500Cr- B Standard Method (3-71) Colorimetric Method: 2017	1 mg/l to 10 mg/l
64	CHEMICAL- POLLUTION & ENVIRONMENT	Water	Iron as Fe	IS: 3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method : 2009	0.1 mg/l to 10 mg/l
65	CHEMICAL- POLLUTION & ENVIRONMENT	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Method: 2017	1 mg/l to 25 mg/l
66	CHEMICAL- WATER	Water	Sulphate	APHA(23rd Ed.) 4500 SO ₄ -EStandard Method(4-199)Turbidimetric Method: 2017	1 mg/l to 1000 mg/l
67	CHEMICAL- WATER	Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method: 2017	1 mg/l to 500 mg/l



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68	CHEMICAL- WATER	Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method: 2017	1 mg/l to 500 mg/l
69	CHEMICAL- WATER	Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method: 2017	1 mg/l to 500 mg/l
70	CHEMICAL- WATER	Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method: 2017	1 mg/l to 500 mg/l
71	CHEMICAL- WATER	Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method: 2017	1 mg/l to 500 mg/l
72	CHEMICAL- WATER	Water	Acidity	APHA(23rd Ed.) 2310-BStandard Method(2-34) Titration Method: 2017	1 mg/l to 500 mg/l
73	CHEMICAL- WATER	Water	Alkalinity	APHA(23rd Ed.) 2320-BStandard Method (2-37)Titration Method: 2017	1 mg/l to 1000 mg/l
74	CHEMICAL- WATER	Water	Alkalinity	APHA(23rd Ed.) 2320-BStandard Method (2-37)Titration Method: 2017	1 mg/l to 1000 mg/l



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75	CHEMICAL- WATER	Water	Alkalinity	APHA(23rd Ed.) 2320-B Standard Method (2-37) Titration Method: 2017	1 mg/l to 1000 mg/l
76	CHEMICAL- WATER	Water	Alkalinity	APHA(23rd Ed.) 2320-B Standard Method (2-37) Titration Method: 2017	1 mg/l to 1000 mg/l
77	CHEMICAL- WATER	Water	Alkalinity	APHA(23rd Ed.) 2320-B Standard Method (2-37) Titration Method: 2017	1 mg/l to 1000 mg/l
78	CHEMICAL- WATER	Water	Alkalinity	APHA(23rd Ed.) 2320-B Standard Method (2-37) Titration Method: 2017	1 mg/l to 1000 mg/l
79	CHEMICAL- WATER	Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH ₃ -B& C Standard Method(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 500 mg/l
80	CHEMICAL- WATER	Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH ₃ -B& C Standard Method(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 500 mg/l



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81	CHEMICAL- WATER	Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 500 mg/l
82	CHEMICAL- WATER	Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 500 mg/l
83	CHEMICAL- WATER	Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 500 mg/l
84	CHEMICAL- WATER	Water	Ammonical Nitrogen	APHA(23rd Ed.) 4500NH3-B& C StandardMethod(4-114,115,116) Titrimetric Method: 2017	0.5 mg/l to 500 mg/l
85	CHEMICAL- WATER	Water	Biological Oxygen Demand	IS:3025 (P-44)1993 (3 days at 270.C)(Reaffirmed 2014): 2014	5 mg/l to 1000 mg/l
86	CHEMICAL- WATER	Water	Biological Oxygen Demand	IS:3025 (P-44)1993(Reaffirmed 2014): 2014	5 mg/l to 100 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
87	CHEMICAL- WATER	Water	Biological Oxygen Demand	IS:3025 (P-44)1993 (3 days at 270.C)(Reaffirmed 2014): 2014	5 mg/l to 100 mg/l
88	CHEMICAL- WATER	Water	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)1993: 2014	5 mg/l to 1000 mg/l
89	CHEMICAL- WATER	Water	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)1993: 2014	5 mg/l to 1000 mg/l
90	CHEMICAL- WATER	Water	Biological Oxygen Demand (3 days @ 27°C)	IS:3025 (P-44)1993: 2014	5 mg/l to 1000 mg/l
91	CHEMICAL- WATER	Water	Boron as B	APHA (23rd Ed.) 4500B-B Standard Method (4-27) Curcumin Method: 2017: 2017	0.4 mg/l to 10 mg/l
92	CHEMICAL- WATER	Water	Boron as B	APHA (23rd Ed.) 4500B-B Standard Method (4-27) Curcumin Method: 2017	0.4 mg/l to 10 mg/l
93	CHEMICAL- WATER	Water	Boron as B	APHA (23rd Ed.) 4500B-B Standard Method (4-27) Curcumin Method: 2017	0.4 mg/l to 10 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
94	CHEMICAL- WATER	Water	Boron as B	APHA (23rd Ed.) 4500B-B Standard Method (4-27) Curcumin Method: 2017	0.4 mg/l to 10 mg/l
95	CHEMICAL- WATER	Water	Boron as B	APHA (23rd Ed.) 4500B-B Standard Method (4-27) Curcumin Method: 2017	0.4 mg/l to 10 mg/l
96	CHEMICAL- WATER	Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
97	CHEMICAL- WATER	Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
98	CHEMICAL- WATER	Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
99	CHEMICAL- WATER	Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 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
100	CHEMICAL- WATER	Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
101	CHEMICAL- WATER	Water	Calcium	APHA(23rd Ed.) 3500Ca-BStandard Method(3-69) EDTA Titrimetric Method: 2017	5 mg/l to 1000 mg/l
102	CHEMICAL- WATER	Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method: 2017	2 mg/l to 1000 mg/l
103	CHEMICAL- WATER	Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method: 2017	2 mg/l to 1000 mg/l
104	CHEMICAL- WATER	Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method: 2017	2 mg/l to 1000 mg/l
105	CHEMICAL- WATER	Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method: 2017	2 mg/l to 1000 mg/l
106	CHEMICAL- WATER	Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-BStandard Method (5-18) Open Reflux Method: 2017	2 mg/l to 1000 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
107	CHEMICAL- WATER	Water	Chemical Oxygen Demand	APHA(23rd Ed.) 5220-B Standard Method (5-18) Open Reflux Method: 2017	2 mg/l to 1000 mg/l
108	CHEMICAL- WATER	Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75) Argentometric method: 2017	5 mg/l to 5000 mg/l
109	CHEMICAL- WATER	Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75) Argentometric method: 2017	5 mg/l to 5000 mg/l
110	CHEMICAL- WATER	Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75) Argentometric method: 2017	5 mg/l to 5000
111	CHEMICAL- WATER	Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75) Argentometric method: 2017	5 mg/l to 5000 mg/l
112	CHEMICAL- WATER	Water	Chloride	APHA(23rd Ed.) 4500Cl-B&G Standard Method(4-75) Argentometric method: 2017	5 mg/l to 5000 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
113	CHEMICAL- WATER	Water	Chloride	APHA(23rd Ed.) 4500Cl-B&GStandard Method(4-75)Argentometric method: 2017	5 mg/l to 5000 mg/l
114	CHEMICAL- WATER	Water	Color	APHA(23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method.: 2017	2 CU to 500 CU
115	CHEMICAL- WATER	Water	Color	APHA(23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method: 2017	2 PtCo to 500 PtCo
116	CHEMICAL- WATER	Water	Color	APHA(23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method.: 2017	2 PtCo to 500 PtCo
117	CHEMICAL- WATER	Water	Color	APHA(23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method: 2017	2 PtCo to 500 PtCo
118	CHEMICAL- WATER	Water	Color	APHA(23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method.: 2017: 2017	2 PtCo to 500 PtCo



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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
119	CHEMICAL- WATER	Water	Color	APHA(23rd Ed.) 2120-C Standard Method (2-7) Spectrometric Single wavelength method: 2017	2 PtCo to 500 PtCo
120	CHEMICAL- WATER	Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
121	CHEMICAL- WATER	Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
122	CHEMICAL- WATER	Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
123	CHEMICAL- WATER	Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
124	CHEMICAL- WATER	Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
125	CHEMICAL- WATER	Water	Conductivity	APHA(23rd Ed.) 2510-B Standard Method (2-58) : 2017	0.1 mS/cm to 200 mS/cm
126	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard Method Azide Modification (4-146, 149) Membrane Electrode Method : 2017	0.1 mg/l to 15 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
127	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
128	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
129	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
130	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
131	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 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
132	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C Standard MethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
133	CHEMICAL- WATER	Water	Dissolved oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
134	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
135	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 mg/l
136	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrod Method : 2017	0.1 mg/l to 15 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
137	CHEMICAL- WATER	Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method Ion selective electrode method: 2017	0.1 mg/l to 100 mg/l
138	CHEMICAL- WATER	Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method Ion selective electrode method : 2017	0.1 mg/l to 100 mg/l
139	CHEMICAL- WATER	Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method Ion selective electrode method : 2017	0.1 mg/l to 100 mg/l
140	CHEMICAL- WATER	Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method Ion selective electrode method: 2017	0.1 mg/l to 100 mg/l
141	CHEMICAL- WATER	Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method Ion selective electrode method: 2017	0.1 mg/l to 100 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
142	CHEMICAL- WATER	Water	Fluoride	APHA(23rd Ed.) 4500F—DStandard Method(4-90) SPANDS Method Ion selective electrode method : 2017	0.1 mg/l to 100 mg/l
143	CHEMICAL- WATER	Water	Iron as Fe	IS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method: 2009	0.1 mg/l to 10 mg/l
144	CHEMICAL- WATER	Water	Iron as Fe	IS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method : 2009	0.1 mg/l to 10 mg/l
145	CHEMICAL- WATER	Water	Iron as Fe	IS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method: 2009	0.1 mg/l to 10 mg/l
146	CHEMICAL- WATER	Water	Iron as Fe	IS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method: 2009	0.1 mg/l to 10 mg/l
147	CHEMICAL- WATER	Water	Iron as Fe	S:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method : 2009	0.1 mg/l to 10 mg/l
148	CHEMICAL- WATER	WATER	Iron as Fe	IS:3025 (P-53):2003 (Reaffirmed 2009) 1, 10-Phenanthroline Method : 2009	0.1 mg/l to 10 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
149	CHEMICAL- WATER	water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l
150	CHEMICAL- WATER	Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l
151	CHEMICAL- WATER	Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l
152	CHEMICAL- WATER	Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l
153	CHEMICAL- WATER	Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 mg/l
154	CHEMICAL- WATER	Water	Magnesium	APHA(23rd Ed.) 3500 Mg-BStandard Method(3-86) Calculation Method: 2017	5 mg/l to 1000 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
155	CHEMICAL- WATER	Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 500 mg/l
156	CHEMICAL- WATER	Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 500 mg/l
157	CHEMICAL- WATER	Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 500 mg/l
158	CHEMICAL- WATER	Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 500 mg/l
159	CHEMICAL- WATER	Water	Nitrate Nitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 500 mg/l
160	CHEMICAL- WATER	Water	NitrateNitrogen	APHA (23rd Ed.) 4500 NO-3 -EStandard Method (4-131) Cadmium Reduction Method: 2017	0.1 mg/l to 500 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
161	CHEMICAL- WATER	Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –BStandard Method (4-124) Colorimetric Method: 2017	0.1 mg/l to 1000 mg/l
162	CHEMICAL- WATER	Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –BStandard Method (4-124) Colorimetric Method: 2017	0.1 mg/l to 1000 mg/l
163	CHEMICAL- WATER	Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –BStandard Method (4-124) Colorimetric Method: 2017	0.1 mg/l to 1000 mg/l
164	CHEMICAL- WATER	Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –BStandard Method (4-124) Colorimetric Method: 2017	0.1 mg/l to 1000 mg/l
165	CHEMICAL- WATER	Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –BStandard Method (4-124) Colorimetric Method: 2017	0.1 mg/l to 1000 mg/l
166	CHEMICAL- WATER	Water	Nitrite Nitrogen	APHA (23rd Ed.) 4500 NO-2 –BStandard Method (4-124) Colorimetric Method: 2017	0.1 mg/l to 1000 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
167	CHEMICAL- WATER	Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH
168	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APHA (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH
169	CHEMICAL- WATER	Water	pH Meter	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH
170	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH



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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
171	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)ElectrometricMethod: 2017	1 pH to 14 pH
172	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)ElectrometricMethod: 2017	1 pH to 14 pH
173	CHEMICAL- WATER	Water	Phospahte	APHA(23rd Ed.)4500P-EStandard Method(4-164) Ascorbic Acid Method: 2017	0.1 mg/l to 50 mg/l
174	CHEMICAL- WATER	Water	Phospate	APHA(23rd Ed.)4500P-EStandard Method(4-164) Ascorbic Acid Method: 2017	0.1 mg/l to 50 mg/l
175	CHEMICAL- WATER	Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method: 2017	0.1 mg/l to 50 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
176	CHEMICAL- WATER	Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method: 2017	0.1 mg/l to 50 mg/l
177	CHEMICAL- WATER	Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method: 2017	0.1 mg/l to 50 mg/l
178	CHEMICAL- WATER	Water	Phosphate	APHA (23rd Ed.)4500P-D Standard Method (4-163) Stannous Chloride Method: 2017	0.1 mg/l to 50 mg/l
179	CHEMICAL- WATER	Water	Potassium	APHA(23rd Ed.) 3500K-BStandard Method(3-89) Flame Photometric Method: 2017	0.1 mg/l to 100 mg/l
180	CHEMICAL- WATER	Water	Potassium	APHA(23rd Ed.) 3500K-BStandard Method(3-89) Flame Photometric Method: 2017	0.1 mg/l to 100 mg/l
181	CHEMICAL- WATER	Water	Potassium	APHA(23rd Ed.) 3500K-BStandard Method(3-89) Flame Photometric Method: 2017	0.1 mg/l to 100 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
182	CHEMICAL- WATER	Water	Potassium	APHA(23rd Ed.) 3500K-BStandard Method(3-89) Flame Photometric Method: 2017	0.1 mg/l to 100 mg/l
183	CHEMICAL- WATER	Water	Potassium	APHA(23rd Ed.) 3500K-BStandard Method(3-89) Flame Photometric Method: 2017	0.1 mg/l to 100 mg/l
184	CHEMICAL- WATER	Water	Potassium	APHA(23rd Ed.) 3500K-BStandard Method(3-89) Flame Photometric Method: 2017	0.1 mg/l to 100 mg/l
185	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & CStandard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
186	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & CStandard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
187	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & CStandard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 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
188	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & C Standard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
189	CHEMICAL- WATER	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Metho: 2017	1 mg/l to 25 mg/l
190	CHEMICAL- WATER	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Method: 2017	1 mg/l to 25 mg/l
191	CHEMICAL- WATER	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Method: 2017	1 mg/l to 25 mg/l
192	CHEMICAL- WATER	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Method: 2017	1 mg/l to 25 mg/l
193	CHEMICAL- WATER	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Method: 2017	1 mg/l to 25 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
194	CHEMICAL- WATER	Water	Silica as SiO ₂	APHA (23rd Ed.) 4500SiO ₂ -C Standard Method (4-175) Molybdosilicate Method: 2017	1 mg/l to 25 mg/l
195	CHEMICAL- WATER	Water	Sodium	APHA(23rd Ed.) 3500Na-BStandard Method(3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 100 mg/l
196	CHEMICAL- WATER	Water	Sodium	APHA(23rd Ed.) 3500Na-BStandard Method(3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 100 mg/l
197	CHEMICAL- WATER	Water	Sodium	APHA(23rd Ed.) 3500Na-BStandard Method(3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 100 mg/l
198	CHEMICAL- WATER	Water	Sodium	APHA(23rd Ed.) 3500Na-BStandard Method(3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 100 mg/l
199	CHEMICAL- WATER	Water	Sodium	APHA(23rd Ed.) 3500Na-BStandard Method(3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 100 mg/l



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200	CHEMICAL- WATER	Water	Sodium	APHA(23rd Ed.) 3500Na-BStandard Method(3-99) Flame Emission Photometric Method: 2017	0.1 mg/l to 100 mg/l
201	CHEMICAL- WATER	Water	Sulfate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method: 2017	1 mg/l to 1000 mg/l
202	CHEMICAL- WATER	Water	Sulphate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method: 2017	1 mg/l to 1000 mg/l
203	CHEMICAL- WATER	Water	Sulphate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method: 2017	1 mg/l to 1000 mg/l
204	CHEMICAL- WATER	Water	Sulphate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method: 2017	1 mg/l to 1000 mg/l
205	CHEMICAL- WATER	Water	Sulphate	APHA(23rd Ed.) 4500 SO4-EStandard Method(4-199)Turbidimetric Method: 2017	1 mg/l to 1000 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
206	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984: 2017	2 °C to 99 °C
207	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984(Reaffirmed2017) : 2017	2 °C to 99 °C
208	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984(Reaffirmed2017) : 2017	2 °C to 99 °C
209	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984(Reaffirmed2017) : 2017	2 °C to 99 °C
210	CHEMICAL- WATER	Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 5000 mg/l
211	CHEMICAL- WATER	Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 5000 mg/l
212	CHEMICAL- WATER	Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 5000 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
213	CHEMICAL- WATER	Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 5000 mg/l
214	CHEMICAL- WATER	Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 5000 mg/l
215	CHEMICAL- WATER	Water	Total Dissolved Solids	APHA (23rd Ed.) 2540-C Standard Method (2-69): 2017	10 mg/l to 5000 mg/l
216	CHEMICAL- WATER	Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method: 2017	5 mg/l to 2000 mg/l
217	CHEMICAL- WATER	Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA TitrimetricMethod: 2017	5 mg/l to 10000 mg/l
218	CHEMICAL- WATER	Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA Titrimetric Method: 2017	5 mg/l to 2000 mg/l
219	CHEMICAL- WATER	Water	Total Hardness	PHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA TitrimetricMethod: 2017	5 mg/l to 2000 mg/l
220	CHEMICAL- WATER	Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA TitrimetricMethod: 2017	5 mg/l to 2000 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
221	CHEMICAL- WATER	Water	Total Hardness	APHA(23rd Ed.) 2340-C Standard Method (2-48) EDTA TitrimetricMethod: 2017	5 mg/l to 2000 mg/l
222	CHEMICAL- WATER	Water	Total solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 5000 mg/l
223	CHEMICAL- WATER	Water	Total Solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 5000 mg/l
224	CHEMICAL- WATER	Water	Total Solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 5000 mg/l
225	CHEMICAL- WATER	Water	Total Solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 5000 mg/l
226	CHEMICAL- WATER	Water	Total Solids	APHA(23rd Ed.) 2540-B Standard Method (2-68): 2017	10 mg/l to 5000 mg/l
227	CHEMICAL- WATER	Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 1000 mg/l
228	CHEMICAL- WATER	Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 1000 mg/l
229	CHEMICAL- WATER	Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 1000 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
230	CHEMICAL- WATER	Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 1000 mg/l
231	CHEMICAL- WATER	Water	Total Suspended Solids	APHA(23rd Ed.) 2540-D Standard Method (2-70): 2017	2 mg/l to 1000 mg/l
232	CHEMICAL- WATER	Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU
233	CHEMICAL- WATER	Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU
234	CHEMICAL- WATER	Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU
235	CHEMICAL- WATER	Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU
236	CHEMICAL- WATER	Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU
237	CHEMICAL- WATER	Water	Turbidity	APHA(23rd Ed.) 2130-B Standard Method (2-13) Nephelometric Method: 2017	1 NTU to 1000 NTU



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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
238	CHEMICAL- WATER	Water	Volatile & Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017	2 mg/l to 1000 mg/l
239	CHEMICAL- WATER	Water	Volatile & Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017	2 mg/l to 1000 mg/l
240	CHEMICAL- WATER	Water	Volatile & Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017	2 mg/l to 1000 mg/l
241	CHEMICAL- WATER	Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017	2 mg/l to 1000 mg/l
242	CHEMICAL- WATER	Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017: 2017	2 mg/l to 1000 mg/l
243	CHEMICAL- WATER	Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017	2 mg/l to 1000 mg/l
244	CHEMICAL- WATER	Water	Volatile and Fixed Residue	APHA (23rd Ed.) 2540-EStandard Method (2-71): 2017	2 mg/l to 1000 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
Site Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Ammonia	Guidelines for Manual Sampling & Analysis Vol.I (May-2011): CPCB (MoEF, Govt. of India) Contents Sr. No. (6),P.g. no.35-38Indophenol Blue Method: 2011	2 µg/m ³ to 700 µg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Chlorine	IS: 5182 (Part - 19),1982 (Reaffirmed 2014): 2014	5 µg/m ³ to 2000 µg/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	NOX	IS: 5182 (Part – 06), 2006 (Reaffirmed 2017): 2017	5 µg/m ³ to 500 µg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	Ozone	IS : 5182 (Part-9):1974, CPCB Guideline for sampling & Analysis of Ozone in Ambient Air (Reaffirmed 2003) : 2003	0.1 µg/m ³ to 11 µg/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	PM 2.5	QP/5.4/01-(b) :CPCB guideline Contents Sr. No. (4), P.g. no.15-30 & Operation Manual(Using Fine Particulate Machine) Gravimetric Method: 2018	10 µg/m ³ to 200 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
6	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	RSPM (PM10)	IS: 5182 (Part - 23), 2006 (Reaffirmed 2017): 2017	20 µg/m ³ to 500 µg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Air, Gas & Atmosphere	SO ₂	IS: 5182 (Part - 2), 2001 Reaffirmed 2017): 2017	5 µg/m ³ to 600 µg/m ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Noise	Noise (dB)A _{Leq} At Source	IS/ISO 8528 (Part -10) : 1998 / CPCB Regulation.: 1998	30 dB(A) to 130 dB(A)
9	CHEMICAL-ATMOSPHERIC POLLUTION	Noise	Noise (dB)A _{Leq} In Ambient	IS 9989-1981(2002) / CPCB Protocol for Ambient Noise Level Monitoring July 2015: 2015	30 dB(A) to 130 dB(A)
10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Ammonia	IS:11255(Part-6),1999 (Reaffirmed 2014): 2014	5 mg/Nm ³ to 500 mg/Nm ³
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	CO ₂	QR/5.5/01(e). Flue Gas Analyser USEPA Method-3A-1999: 2018	0.1 % to 20 %
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	NO ₂	IS:11255 (Part-7), 2005 (Reaffirmed 2017): 2017	5 mg/Nm ³ to 400 mg/Nm ³
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	O ₂ (Oxygen)	IS:13270 (Part-26) 1992 (Reaffirmed 2014) Flue Gas Analyser USEPA Method - 3A -1999: 2014	1 % to 21 %



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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
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	PM	IS: 11255 (Part – 1):1985 (Reaffirmed 2014): 2014	10 mg/Nm ³ to 1500 mg/Nm ³
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	SO ₂	IS: 11255 (Part–2), 1985 (Reaffirmed 2014): 2014	5 mg/Nm ³ to 1000 mg/Nm ³
16	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Temperature	IS: 11255 (Part – 3): 2008	10 °C to 600 °C
17	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Velocity	IS: 11255 (Part – 3): 2008	0.2 mtr/sec to 30 mtr/sec
18	CHEMICAL- WATER	Water	Dissolved oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrode Method : 2017	0.1 mg/l to 15 mg/l
19	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrode Method : 2017	0.1 mg/l to 15 mg/l
20	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrode Method : 2017	0.1 mg/l to 15 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
21	CHEMICAL- WATER	Water	Dissolved Oxygen	APHA(23rd Ed.) 4500O-C StandardMethodAzide Modification (4-146, 149) Membrane Electrode Method : 2017	0.1 mg/l to 15 mg/l
22	CHEMICAL- WATER	Water	pH	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH
23	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APHA (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH
24	CHEMICAL- WATER	Water	pH Meter	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)Electrometric Method: 2017	1 pH to 14 pH



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SCOPE OF ACCREDITATION

Laboratory Name SAHARSH EHS SERVICES PVT LTD, 122-124, HIGH FIELD ASCOT, VIP ROAD, VESU, SURAT, GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8429 Page No. : 43 / 45

Validity 12/04/2019 to 11/04/2021 Last Amended on -

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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
25	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)ElectrometricMethod: 2017	1 pH to 14 pH
26	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)ElectrometricMethod: 2017	1 pH to 14 pH
27	CHEMICAL- WATER	Water	pH Value	IS:3025 (Part-11) 1983(Electrometric Method) (Reaffirmed2002) APH (23rd Ed.) 4500-H+-B StandardMethod(4-95)ElectrometricMethod: 2017	1 pH to 14 pH
28	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & C Standard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 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
29	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & C Standard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
30	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & C Standard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
31	CHEMICAL- WATER	Water	Residual Chlorine	APHA(23rd Ed.) 4500-B & C Standard Method(4-63,64,65)Iodometric Method I & II: 2017	0.1 mg/l to 10 mg/l
32	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984: 2017	2 °C to 99 °C
33	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984(Reaffirmed 2017) : 2017	2 °C to 99 °C
34	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984(Reaffirmed 2017) : 2017	2 °C to 99 °C



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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
35	CHEMICAL- WATER	Water	Temperature	APHA (23rd Ed.) 2550-B Standard Method (2-74) IS: 3025(Part-9) -1984(Reaffirmed 2017) : 2017	2 °C to 99 °C

'NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.'