



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name OVERSEAS TEST HOUSE AND RESEARCH CENTER PVT. LTD., 19A, SHIVPURI COLONY EXTENSION, JEEN MATA MARG, JHOTWARA, JAIPUR, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5165 Page No. : 1 / 11

Validity 13/01/2019 to 12/01/2021 Last Amended on 21/02/2019

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
<b>Permanent Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Ammonia	Lab SOP-73 Issued no.01,: 2017	5 mg/m <sup>3</sup> to 400 mg/m <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Lead	IS 5182 (P-22) 2004: 2009	0.1 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Nickel	Lab SOP -75 Issued no.01,: 2017	30 ng/m <sup>3</sup> to 1000 ng/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Nitrogen Dioxide (NO <sub>2</sub> )	IS:11255 (Part 7): 2006	6 µg/m <sup>3</sup> to 120 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (Part 23) 2006: 2012	6 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
6	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Ozone (O <sub>3</sub> )	IS: 5182 (P-9) -1974: 2009	20 ug/m <sup>3</sup> to 200 ug/m <sup>3</sup>
7	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Particulate matter	IS: 11255 (Part 1) 1985 (: 2009	5 mg/Nm <sup>3</sup> to 1500 mg/Nm <sup>3</sup>
8	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Particulate matter (PM <sub>10</sub> )	IS: 5182 (Part 23) 2006: 2012	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
9	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Particulate matter(PM <sub>2.5</sub> )	LAB-SOP-066 Issue No.: 01: 2016	5 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5165

Page No. : 2 / 11

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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	Air	Sulphur Dioxide(SO <sub>2</sub> )	IS: 5182 (Part 2) 2001: 2012	3.75 µg/m <sup>3</sup> to 120 µg/m <sup>3</sup>
11	CHEMICAL-ATMOSPHERIC POLLUTION	Air	Sulphur Dioxide(SO <sub>2</sub> )	IS: 11255 (Part 2) 1985: 2009	4 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
12	CHEMICAL-ATMOSPHERIC POLLUTION	Noise	Noise	IS: 9989 (1981): 2001	34 DB to 134 DB
13	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Calcium	LAB-SOP-061 Issued no.01: 2016	10 mg/100g to 1000 mg/100g
14	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Magnesium	LAB-SOP-062 Issued no.01: 2016	1 mg/100g to 100 mg/100g
15	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Nitrogen	LAB-SOP-95 Issued no.01,: 2017	0.01 % to 50 %
16	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available phosphorus	LAB-SOP-94 Issued no.01: 2017	10 kg/ha to 1000 kg/ha
17	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Potassium	LAB-SOP-060 Issued no.01,: 2016	10 Kg/ha to 1000 Kg/ha
18	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Available Sodium	LAB-SOP-059 Issued no.01,: 2016	10 Kg/ha to 1000 Kg/ha
19	CHEMICAL-POLLUTION & ENVIRONMENT	Soil	Boron	LAB-SOP-96 Issued no.01: 2017	1 mg/kg to 100 mg/kg



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5165

Page No. : 3 / 11

Validity 13/01/2019 to 12/01/2021

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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- POLLUTION & ENVIRONMENT	Soil	Bulk Density	IS : 1462: 1985	0.5 g/ml to 5 g/ml
21	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cadmium	USEPA 3050 B: 1996	5 mg/kg to 1000 mg/kg
22	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation exchange capacity (CEC)	IS 2720( Part 24)-1976: (RA 2010)	1 meq/100 g to 30 meq/100 g
23	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Clay	CI 2,4, IS:2720 (Part 4 ): 1985	1 % to 100 %
24	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Conductivity	IS: 14767: 2002	10 umhos/cm to 10000 umhos/cm
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Copper	USEPA 3050B: 1996	5 mg/kg to 5000 mg/kg
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Exchangeable sodium percentage (ESP)	LAB SOP-085 Issued no.01: 2017	Qualitative(1 to 80)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Iron	USEPA 3050B: 1996	50 mg/kg to 5000 mg/kg
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Lead	USEPA 3050B: 1996	5 mg/kg to 1000 mg/kg
29	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Manganese	USEPA 3050B: 1996	5 mg/kg to 1000 mg/kg



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5165 Page No. : 4 / 11

Validity 13/01/2019 to 12/01/2021 Last Amended on 21/02/2019

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30	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Carbon	IS: 2720 (Part 22) – 1972: (RA 2006)	0.5 % to 20 %
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS : 2720 (Part 26): 1987	2 to 12
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Porosity	IS : 2720 (Part 7) 1980: (RA 2010)	30 % to 70 %
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sand	CI 2,4, IS:2720 (Part 4 ): 1985	1 % to 100 %
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Silt	CI 2,4, IS:2720 (Part 4 ): 1985	1 % to 100 %
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Nitrogen	IS : 14684 : 1999: (RA 2014)	0.5 % to 50 %
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Total Phosphate	LAB-SOP-063 Issued no.01,: 2016	10 kg/ha to 10000 kg/ha
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Water Content	IS : 2720 (Part 2) 1973: (RA 2010)	0.1 % to 50 %
38	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Water HoldingCapacity	LAB-SOP-049 Issue No 01: Date: 06.09.2016	20 % to 75 %
39	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Zinc	USEPA 3050B: 1996	5 mg/kg to 5000 mg/kg



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Certificate Number TC-5165 Page No. : 5 / 11

Validity 13/01/2019 to 12/01/2021 Last Amended on 21/02/2019

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40	CHEMICAL-RESIDUES IN WATER	Ground water, Surface Water & Drinking Water	Manganese	APHA: 3111 B 23rd Edition: 2017	0.1 mg/l to 100 mg/l
41	CHEMICAL-RESIDUES IN WATER	Ground water, Surface water, Drinking water	Aluminum	APHA: 3500 Al - B 23rd Edition: 2017	0.2 mg/l to 10 mg/l
42	CHEMICAL-RESIDUES IN WATER	Ground water, Surface Water, Drinking water	Aluminum	APHA: 3500 Al - B 23rd Edition: 2017	Qualitative
43	CHEMICAL-RESIDUES IN WATER	Ground water, Surface water, Drinking water	Arsenic	APHA:3114 B 23rd Edition: 2017	0.01 mg/l to 10 mg/l
44	CHEMICAL-RESIDUES IN WATER	Ground water, Surface water, Drinking water	Cadmium	APHA: 3111 B 23rd Edition: 2017	0.1 mg/l to 100 mg/l
45	CHEMICAL-RESIDUES IN WATER	Ground water, Surface Water, Drinking water	Copper	APHA: 3111 B 23rd Edition: 2017	0.1 mg/l to 10 mg/l
46	CHEMICAL-RESIDUES IN WATER	Ground water, Surface water, Drinking water	Iron	APHA: 3500 Fe – B 23rd Edition: 2017	0.05 mg/l to 10 mg/l
47	CHEMICAL-RESIDUES IN WATER	Ground water, Surface Water, Drinking water	Zinc	APHA: 3111 B 23rd Edition: 2017	0.1 mg/kg to 100 mg/kg
48	CHEMICAL-RESIDUES IN WATER	Groundwater, Surface water, Drinking water	Chromium	APHA: 3111 B 23rd Edition: 2017	0.1 mg/l to 10 mg/l
49	CHEMICAL-RESIDUES IN WATER	Groundwater, Surface water, Drinking water	Lead	APHA: 3111 B 23rd Edition: 2017	0.2 mg/l to 10 mg/l
50	CHEMICAL-RESIDUES IN WATER	Groundwater, Surface water, Drinking water	Nickel	APHA: 3111 B 23rd Edition: 2017	0.1 mg/l to 10 mg/l
51	CHEMICAL- WATER	Drinking water	Alkalinity (Methyl Orange & Phenolphthalein)	APHA : 2320 B 23rd Edition: 2017	5 mg/l to 2500 mg/l
52	CHEMICAL- WATER	Drinking water	Ammonical iNitrogen	IS 3025 (Part 34) 1988: (RA 2014)	1 mg/l to 500 mg/l
53	CHEMICAL- WATER	Drinking water	BOD at 27° C For 3 days	IS 3025 (Part 44) : 1993: (RA 2017)	2 mg/l to 100 mg/l



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Certificate Number TC-5165 Page No. : 6 / 11

Validity 13/01/2019 to 12/01/2021 Last Amended on 21/02/2019

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54	CHEMICAL- WATER	Drinking water	Calcium as Ca	APHA : 3500 - Ca B 23rd Edition: 2017	10 mg/l to 1000 mg/l
55	CHEMICAL- WATER	Drinking water	Calcium Hardness	APHA : 3500 - Ca B 23rd Edition: 2017	10 mg/l to 4000 mg/l
56	CHEMICAL- WATER	Drinking water	Chloride	APHA : 4500 - Cl- B 23rd Edition: 2017	5 mg/l to 10000 mg/l
57	CHEMICAL- WATER	Drinking water	COD	APHA : 5220 B 23rd Edition: 2017	4 mg/l to 10000 mg/l
58	CHEMICAL- WATER	Drinking water	Colour	APHA: 2120 B - 23rd Edition - (Visual comparion): 2017	Qualitative(5to 250 pt-co)
59	CHEMICAL- WATER	Drinking water	Conductivity	APHA: 2510 B. 23rd Edition: 2017	10 <b style="text-align: justify;">μS/cm to 10000 <b style="font-family: arial, helvetica, sans-serif; text-align: justify;">μS/cm
60	CHEMICAL- WATER	Drinking water	Dissolved Oxygen	APHA: 4500 O- C 23rd Edition: 2017	1 mg/l to 8.5 mg/l
61	CHEMICAL- WATER	Drinking water	Fluoride	APHA : 4500 - F—D 23rd Edition: 2017	0.5 mg/l to 10 mg/l
62	CHEMICAL- WATER	Drinking water	Magnesium as Mg	APHA: 3500 - Mg B 23rd Edition: 2017	10 mg/l to 1000 mg/l
63	CHEMICAL- WATER	Drinking Water	Magnesium Hardness	APHA: 3500 - Mg B 23rd Edition: 2017	10 mg/l to 1000 mg/l
64	CHEMICAL- WATER	Drinking water	Nitrate	IS 3025 (Part 34) 1988: (RA 2014)	0.5 mg/l to 100 mg/l
65	CHEMICAL- WATER	Drinking water	Oil & Grease	APHA : 5520 B 23rd Edition: 2017	1 mg/l to 50 mg/l





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Certificate Number TC-5165 Page No. : 7 / 11

Validity 13/01/2019 to 12/01/2021 Last Amended on 21/02/2019

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66	CHEMICAL- WATER	Drinking Water	pH	APHA : 4500-H+ B 23rd Edition: 2017	2 to 12
67	CHEMICAL- WATER	Drinking water	Phenolic Compound	APHA: 5530 D 23rd Edition: 2017	0.25 mg/l to 15 mg/l
68	CHEMICAL- WATER	Drinking water	Phosphate as PO <sub>4</sub>	APHA: 4500 - P C 23rd Edition: 2017	1 mg/l to 100 mg/l
69	CHEMICAL- WATER	Drinking water	Potassium	APHA : 3500 - K B 23rd Edition: 2017	1 mg/l to 1500 mg/l
70	CHEMICAL- WATER	Drinking water	Sodium	APHA : 3500 - Na B 23rd Edition: 2017	1 mg/l to 3000 mg/l
71	CHEMICAL- WATER	Drinking water	Sulphate	APHA : 4500 - SO <sub>4</sub> E 23rd Edition: 2017	5 mg/l to 10000 mg/l
72	CHEMICAL- WATER	Drinking water	Temperature	APHA : 2550- B 23rd Edition: 2017	20 °C to 60 °C
73	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA : 2540 C 23rd Edition: 2017	5 mg/l to 10000 mg/l
74	CHEMICAL- WATER	Drinking water	Total Hardness	APHA : 2340 C 23rd Edition: 2017	10 mg/l to 10000 mg/l
75	CHEMICAL- WATER	Drinking water	Total Suspended Solids	APHA : 2540 D 23rd Edition: 2017	5 mg/l to 500 mg/l
76	CHEMICAL- WATER	Drinking water	Turbidity	APHA : 2130- B 23rd Edition: 2017	1 NTU to 500 NTU
77	CHEMICAL- WATER	Ground Water	Alkalinity (Methyl orange & phenolphthalein)	APHA : 2320 B Alkalinity 23rd Edition: 2017	5 mg/l to 2500 mg/l
78	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen	IS 3025 (PP 34) 1988: (RA 2017)	1 mg/l to 500 mg/l
79	CHEMICAL- WATER	Ground Water	BOD at 27° C For 3 days	IS 3025 (Part 44) : 1993: (RA 2009)	2 mg/l to 100 mg/l



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Certificate Number TC-5165 Page No. : 8 / 11

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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
80	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA : 3500 - Ca B 23rd Edition: 2017	10 mg/l to 1000 mg/l
81	CHEMICAL- WATER	Ground Water	Calcium Hardness	APHA : 3500 - Ca B 23rd Edition: 2017	10 mg/l to 4000 mg/l
82	CHEMICAL- WATER	Ground Water	Chloride	APHA : 4500 - Cl- B 23rd Edition: 2017	5 mg/l to 1000 mg/l
83	CHEMICAL- WATER	Ground Water	COD	APHA : 5220 B 23rd Edition: 2017	4 mg/l to 10000 mg/l
84	CHEMICAL- WATER	Ground Water	Colour	APHA: 2120 B 23rd Edition: 2017	Qualitative(5 to 250 Pt-Co)
85	CHEMICAL- WATER	Ground Water	Conductivity	APHA: 2510 B. 23rd Edition: 2017	10 $\mu$ S/cm to 10000 $\mu$ S/cm
86	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA: 4500 O- C 23rd Edition: 2017	1 mg/l to 8.5 mg/l
87	CHEMICAL- WATER	Ground Water	Fluoride	APHA : 4500 - F—D 23rd Edition: 2017	0.5 to 10
88	CHEMICAL- WATER	Ground Water	Magesium Hardness	APHA: 3500 - Mg B 23rd Edition: 2017	10 mg/l to 1000 mg/l
89	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA: 3500-Mg B 23rd Edition: 2017	10 mg/l to 1000 mg/l
90	CHEMICAL- WATER	Ground Water	Nitrate	IS 3025 (Part 34) 1988: (RA 2017)	0.5 mg/l to 100 mg/l
91	CHEMICAL- WATER	Ground Water	Oil & Grease	APHA : 5520 B 23rd Edition: 2017	1 mg/l to 50 mg/l
92	CHEMICAL- WATER	ground water	pH	APHA : 4500-H+ B 23rd Edition: 2017	2 to 12
93	CHEMICAL- WATER	Ground Water	Phenolic Compound	APHA: 5530 D 23rd Edition: 2017	0.25 mg/l to 15 mg/l





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Certificate Number TC-5165 Page No. : 9 / 11

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94	CHEMICAL- WATER	Ground Water	Phosphate	APHA: 4500 - P C 23rd Edition: 2017	1 mg/l to 100 mg/l
95	CHEMICAL- WATER	Ground Water	Potassium	APHA : 3500 - K B 23rd Edition: 2017	1 mg/l to 1500 mg/l
96	CHEMICAL- WATER	Ground Water	Sodium	APHA : 3500 - Na B 23rd Edition: 2017	1 mg/l to 3000 mg/l
97	CHEMICAL- WATER	Ground Water	Sulphate	APHA : 4500 - SO <sub>4</sub> E 23rd Edition: 2017	5 mg/l to 10000 mg/l
98	CHEMICAL- WATER	Ground Water	Temperature	APHA : 2550- B 23rd Edition: 2017	20 °C to 60 °C
99	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA : 2540 C 23rd Edition: 2017	5 mg/l to 10000 mg/l
100	CHEMICAL- WATER	Ground Water	Total Hardness	APHA : 2340 C 23rd Edition: 2017	10 mg/l to 10000 mg/l
101	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA : 2540 D 23rd Edition: 2017	5 mg/l to 500 mg/l
102	CHEMICAL- WATER	Ground water	Turbidity	APHA : 2130- B 23rd Edition: 2017	1 NTU to 500 NTU
103	CHEMICAL- WATER	Surface Water	Alkalinity (Methyl Orange & Phenolphthalein)	APHA : 2320 B Aalkalinity 23rd Edition: 2017	5 mg/l to 2500 mg/l
104	CHEMICAL- WATER	Surface water	Ammonical Nitrogen	IS 3025 (Part 34) 1988: (RA 2014)	1 mg/l to 500 mg/l
105	CHEMICAL- WATER	Surface water	BOD at 27° C For 3 days	IS 3025 (Part 44) : 1993: (RA 2009)	2 mg/l to 100 mg/l
106	CHEMICAL- WATER	Surface water	Calcium as Ca	APHA : 3500 - Ca B 23rd Edition: 2017	10 mg/l to 1000 mg/l
107	CHEMICAL- WATER	Surface water	Calcium Hardness	APHA : 3500 - Ca B 23rd Edition: 2017	10 mg/l to 4000 mg/l



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108	CHEMICAL- WATER	Surface Water	Chloride	APHA : 4500 - Cl- B 23rd Edition: 2017	5 mg/l to 10000 mg/l
109	CHEMICAL- WATER	Surface water	COD	APHA: 2510 B. 23rd Edition: 2017	4 mg/l to 10000 mg/l
110	CHEMICAL- WATER	Surface water	colour	APHA: 2120 B 23rd Edition: 2017	Qualitative(5 to 250 Pt-Co)
111	CHEMICAL- WATER	Surface Water	Conductivity	APHA: 2510 B. 23rd Edition: 2017	10 µmhos/cm to 10000 µmhos/cm
112	CHEMICAL- WATER	Surface water	Dissolved Oxygen	APHA: 4500 O- C 23rd Edition: 2017	1 mg/l to 8.5 mg/l
113	CHEMICAL- WATER	Surface water	Fluoride	APHA : 4500 - F—D 23rd Edition: 2017	0.5 mg/l to 10 mg/l
114	CHEMICAL- WATER	Surface water	Magnesium as Mg	APHA: 3500-Mg B 23rd Edition: 2017	10 mg/l to 1000 mg/l
115	CHEMICAL- WATER	Surface water	Magnesium Hardness	APHA: 3500 - Mg B 23rd Edition: 2017	10 mg/l to 1000 mg/l
116	CHEMICAL- WATER	Surface water	Nitrate	IS 3025 (Part 34) - 1988: (RA 2014)	0.5 mg/l to 100 mg/l
117	CHEMICAL- WATER	Surface water	Oil & Grease	APHA : 5520 B 23rd Edition: 2017	1 mg/l to 50 mg/l
118	CHEMICAL- WATER	Surface Water	pH	APHA : 4500-H+ B 23rd Edition: 2017	2 to 12
119	CHEMICAL- WATER	Surface water	Phenolic Compound	APHA: 5530 D 23rd Edition: 2017	0.25 mg/l to 15 mg/l
120	CHEMICAL- WATER	Surface water	Phosphate	APHA: 4500 - P C 23rd Edition: 2017	1 mg/l to 100 mg/l
121	CHEMICAL- WATER	Surface water	Potassium	APHA : 3500 - K B 23rd Edition: 2017	1 mg/l to 1500 mg/l



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122	CHEMICAL- WATER	Surface water	Sodium	APHA : 3500 - Na B 23rd Edition: 2017	1 mg/l to 3000 mg/l
123	CHEMICAL- WATER	Surface water	Sulphate	APHA : 4500 - SO <sub>4</sub> E 23rd Edition: 2017	5 mg/l to 1000 mg/l
124	CHEMICAL- WATER	Surface Water	Temperature	APHA : 2550- B 23rd Edition: 2017	20 °C to 60 °C
125	CHEMICAL- WATER	Surface water	Total Dissolved Solids	APHA : 2540 C 23rd Edition: 2017	5 mg/l to 10000 mg/l
126	CHEMICAL- WATER	Surface water	Total Hardness	APHA : 2340 C 23rd Edition: 2017	10 mg/l to 10000 mg/l
127	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA : 2540 D 23rd Edition: 2017	5 mg/l to 500 mg/l
128	CHEMICAL- WATER	Surface Water	Turbidity	APHA : 2130- B 23rd Edition: 2017	1 NTU to 500 NTU