National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SPECTRUM DIAGNOSTIC LABORATORY & RESEARCH CENTRE, W-47, PVC MARKET, JWALA PURI, PASCHIM VIHAR, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9230	**Page No**	1 of 15
Validity	25/01/2023 to 24/01/2025	**Last Amended on**	21/03/2023

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- WATER	Cooling Tower Water, Industrial Water	Dissolved Oxygen	APHA 23rd Edition 4500 O B
2	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	pH	APHA 23rd Edition 4500 H
3	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	pH	IS 3025 (P-11)
4	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
5	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Dissolved Solids	IS 3025 (P-16)
6	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Turbidity	APHA 23rd Edition 2130 B
7	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Turbidity	IS 3025 (P-10)
8	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
9	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Acidity as CaCO3	IS 3025 (P-22)
10	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
11	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Conductivity	APHA 23rd Edition 2510 B
12	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Conductivity	IS 3025 (P-14)
13	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Temperature	APHA 23rd Edition 2550 B
14	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Hardness as CaCO3	IS 3025 (P-21)
15	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
16	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Solids	APHA 23rd Edition 2540 B
17	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Suspended Solids	APHA 23rd Edition 2540 D
18	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Alkalinity as CaCO3	IS 3025 (P-23)
19	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Dissolved Oxygen	IS 3025 (P-38)
20	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Temperature	IS 3025 (P-9)
21	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Solids	IS 3025 (P-15)
22	CHEMICAL- WATER	Cooling Tower Water, Industrial Water	Total Suspended Solids	IS 3025 (P-17)
23	CHEMICAL- WATER	Drinking Water	Acidity as CaCO3	IS 3025 (P-22)
24	CHEMICAL- WATER	Drinking Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
25	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	IS 3025 (P-23)
26	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
27	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025 (P-14)
28	CHEMICAL- WATER	Drinking Water	Conductivity	APHA 23rd Edition 2510 B
29	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (P-38)

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30	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	APHA 23rd Edition 4500 O B
31	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Edition 4500 H
32	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (P-11)
33	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025 (P-9)
34	CHEMICAL- WATER	Drinking Water	Temperature	APHA 23rd Edition 2550 B
35	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (P-16)
36	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
37	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 (P-21)
38	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
39	CHEMICAL- WATER	Drinking Water	Total Solids	IS 3025 (P-15)
40	CHEMICAL- WATER	Drinking Water	Total Solids	APHA 23rd Edition 2540 B
41	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (P-17)
42	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA 23rd Edition 2540 D
43	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (P-10)
44	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 23rd Edition 2130 B
45	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Dissolved Oxygen	APHA 23rd Edition 4500 O B
46	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Dissolved Oxygen	IS 3025 (P-38)
47	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	pH	APHA 23rd Edition 4500 H
48	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	pH	IS 3025 (P-11)
49	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Turbidity	APHA 23rd Edition 2130 B
50	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Turbidity	IS 3025 (P-10)
51	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Acidity as CaCO3	IS 3025 (P-22)
52	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
53	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Alkalinity as CaCO3	IS 3025 (P-23)
54	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Conductivity	APHA 23rd Edition 2510 B
55	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Conductivity	IS 3025 (P-14)
56	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Fixed Dissolved Solids	APHA 23rd Edition 2540 E
57	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Fixed Dissolved Solids	IS 3025 (P-18)
58	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Fixed Solids	APHA 23rd Edition 2540 E
59	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Fixed Solids	IS 3025 (P-18)

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60	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Fixed Suspended Solids	APHA 23rd Edition 2540 E
61	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Fixed Suspended Solids	IS 3025 (P-18)
62	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Temperature	IS 3025 (P-9): 1984
63	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
64	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Dissolved Solids	IS 3025 (P-16)
65	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
66	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Hardness as CaCO3	IS 3025 (P-21)
67	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Solids	APHA 23rd Edition 2540 B
68	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Solids	IS 3025 (P-15)
69	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Suspended Solids	APHA 23rd Edition 2540 D
70	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Total Suspended Solids	IS 3025 (P-17)
71	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Volatile Dissolved Solids	APHA 23rd Edition 2540 E
72	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Volatile Dissolved Solids	IS 3025 (P-18)
73	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Volatile Solids	APHA 23rd Edition 2540 E
74	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Volatile Solids	IS 3025 (P-18)
75	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Volatile Suspended Solids	APHA 23rd Edition 2540 E
76	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Volatile Suspended Solids	IS 3025 (P-18)
77	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
78	CHEMICAL- WATER	Ground Water, Well Water, Borewell Water	Temperature	APHA 23rd Edition 2550 B
79	CHEMICAL- WATER	Packaged Drinking Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
80	CHEMICAL- WATER	Packaged Drinking Water	Acidity as CaCO3	IS 3025 (P-22)
81	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
82	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity as CaCO3	IS 3025 (P-23)
83	CHEMICAL- WATER	Packaged Drinking Water	Conductivity	APHA 23rd Edition 2510 B
84	CHEMICAL- WATER	Packaged Drinking Water	Conductivity	IS 3025 (P-14)
85	CHEMICAL- WATER	Packaged Drinking Water	Dissolved Oxygen	APHA 23rd Edition 4500 O B
86	CHEMICAL- WATER	Packaged Drinking Water	Dissolved Oxygen	IS 3025 (P-38)
87	CHEMICAL- WATER	Packaged Drinking Water	pH	APHA 23rd Edition 4500 H
88	CHEMICAL- WATER	Packaged Drinking Water	pH	IS 3025 (P-11)
89	CHEMICAL- WATER	Packaged Drinking Water	Temperature	APHA 23rd Edition 2550 B

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90	CHEMICAL- WATER	Packaged Drinking Water	Temperature	IS 3025 (P-9)
91	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
92	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	IS 3025 (P-16)
93	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
94	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness as CaCO3	IS 3025 (P-21)
95	CHEMICAL- WATER	Packaged Drinking Water	Total Solids	IS 3025 (P-15)
96	CHEMICAL- WATER	Packaged Drinking Water	Total Solids	APHA 23rd Edition 2540 B
97	CHEMICAL- WATER	Packaged Drinking Water	Total Suspended Solids	APHA 23rd Edition 2540 D
98	CHEMICAL- WATER	Packaged Drinking Water	Total Suspended Solids	IS 3025 (P-17)
99	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	APHA 23rd Edition 2130 B
100	CHEMICAL- WATER	Packaged Drinking Water	Turbidity	IS 3025 (P-10)
101	CHEMICAL- WATER	RO Water	Dissolved Oxygen	APHA 23rd Edition 4500 O B
102	CHEMICAL- WATER	RO Water	pH	APHA 23rd Edition 4500 H
103	CHEMICAL- WATER	RO Water	Turbidity	APHA 23rd Edition 2130 B
104	CHEMICAL- WATER	RO Water	Total Suspended Solids	APHA 23rd Edition 2540 D
105	CHEMICAL- WATER	RO Water	Acidity as CaCO3	APHA 23rd Edition 2310 B
106	CHEMICAL- WATER	RO Water	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
107	CHEMICAL- WATER	RO Water	Conductivity	APHA 23rd Edition 2510 B
108	CHEMICAL- WATER	RO Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
109	CHEMICAL- WATER	RO Water	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
110	CHEMICAL- WATER	RO Water	Total Solids	APHA 23rd Edition 2540 B
111	CHEMICAL- WATER	RO Water	Acidity as CaCO3	IS 3025 (P-22)
112	CHEMICAL- WATER	RO Water	Alkalinity as CaCO3	IS 3025 (P-23)
113	CHEMICAL- WATER	RO Water	Conductivity	IS 3025 (P-14)
114	CHEMICAL- WATER	RO Water	Dissolved Oxygen	IS 3025 (P-38)
115	CHEMICAL- WATER	RO Water	pH	IS 3025 (P-11)
116	CHEMICAL- WATER	RO Water	Temperature	IS 3025 (P-9)
117	CHEMICAL- WATER	RO Water	Temperature	APHA 23rd Edition 2550 B
118	CHEMICAL- WATER	RO Water	Total Dissolved Solids	IS 3025 (P-16)
119	CHEMICAL- WATER	RO Water	Total Hardness as CaCO3	IS 3025 (P-21)

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120	CHEMICAL- WATER	RO Water	Total Solids	IS 3025 (P-15)
121	CHEMICAL- WATER	RO Water	Total Suspended Solids	IS 3025 (P-17)
122	CHEMICAL- WATER	RO Water	Turbidity	IS 3025 (P-10)
123	CHEMICAL- WATER	Water for construction purpose	Acidity as CaCO3	APHA 23rd Edition 2310 B
124	CHEMICAL- WATER	Water for construction purpose	Acidity as CaCO3	IS 3025 (P-22)
125	CHEMICAL- WATER	Water for construction purpose	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
126	CHEMICAL- WATER	Water for construction purpose	Alkalinity as CaCO3	IS 3025 (P-23)
127	CHEMICAL- WATER	Water for construction purpose	Conductivity	APHA 23rd Edition 2510 B
128	CHEMICAL- WATER	Water for construction purpose	Conductivity	IS 3025 (P-14)
129	CHEMICAL- WATER	Water for construction purpose	Dissolved Oxygen	APHA 23rd Edition 4500 O B
130	CHEMICAL- WATER	Water for construction purpose	Dissolved Oxygen	IS 3025 (P-38)
131	CHEMICAL- WATER	Water for construction purpose	Fixed Dissolved Solids	IS 3025 (P-18)
132	CHEMICAL- WATER	Water for construction purpose	Fixed Dissolved Solids	APHA 23rd Edition 2540 E
133	CHEMICAL- WATER	Water for construction purpose	Fixed Solids	APHA 23rd Edition 2540 E
134	CHEMICAL- WATER	Water for construction purpose	Fixed Solids	IS 3025 (P-18)
135	CHEMICAL- WATER	Water for construction purpose	Fixed Suspended Solids	APHA 23rd Edition 2540 E
136	CHEMICAL- WATER	Water for construction purpose	Fixed Suspended Solids	IS 3025 (P-18)
137	CHEMICAL- WATER	Water for construction purpose	pH	APHA 23rd Edition 4500 H
138	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (P-11)
139	CHEMICAL- WATER	Water for construction purpose	Temperature	APHA 23rd Edition 2550 B
140	CHEMICAL- WATER	Water for construction purpose	Temperature	IS 3025 (P-9)
141	CHEMICAL- WATER	Water for construction purpose	Total Dissolved Solids	APHA 23rd Edition 2540 C
142	CHEMICAL- WATER	Water for construction purpose	Total Dissolved Solids	IS 3025 (P-16)
143	CHEMICAL- WATER	Water for construction purpose	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
144	CHEMICAL- WATER	Water for construction purpose	Total Hardness as CaCO3	IS 3025 (P-21)
145	CHEMICAL- WATER	Water for construction purpose	Total Solids	IS 3025 (P-15)
146	CHEMICAL- WATER	Water for construction purpose	Total Solids	APHA 23rd Edition 2540 B
147	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids	APHA 23rd Edition 2540 D
148	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids	IS 3025 (P-17)
149	CHEMICAL- WATER	Water for construction purpose	Turbidity	APHA 23rd Edition 2130 B

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150	CHEMICAL- WATER	Water for construction purpose	Turbidity	IS 3025 (P-10)
151	CHEMICAL- WATER	Water for construction purpose	Volatile Dissolved Solids	APHA 23rd Edition 2540 E
152	CHEMICAL- WATER	Water for construction purpose	Volatile Dissolved Solids	IS 3025 (P-18)
153	CHEMICAL- WATER	Water for construction purpose	Volatile Solids	APHA 23rd Edition 2540 E
154	CHEMICAL- WATER	Water for construction purpose	Volatile Solids	IS 3025 (P-18)
155	CHEMICAL- WATER	Water for construction purpose	Volatile Suspended Solids	APHA 23rd Edition 2540 E
156	CHEMICAL- WATER	Water for construction purpose	Volatile Suspended Solids	IS 3025 (P-18)
157	CHEMICAL- WATER	Water for Storage Batteries	Conductivity	IS 3025 (P-14)
158	CHEMICAL- WATER	Water for Storage Batteries	Conductivity	APHA 23rd Edition 2510 B
159	CHEMICAL- WATER	Water for Storage Batteries	Dissolved Oxygen	APHA 23rd Edition 4500 O B
160	CHEMICAL- WATER	Water for Storage Batteries	Dissolved Oxygen	IS 3025 (P-38)
161	CHEMICAL- WATER	Water for Storage Batteries	pH	APHA 23rd Edition 4500 H
162	CHEMICAL- WATER	Water for Storage Batteries	pH	IS 3025 (P-11)
163	CHEMICAL- WATER	Water for Storage Batteries	Temperature	IS 3025 (P-9)
164	CHEMICAL- WATER	Water for Storage Batteries	Temperature	APHA 23rd Edition 2550 B
165	CHEMICAL- WATER	Water for Storage Batteries	Total Dissolved Solids	APHA 23rd Edition 2540 C
166	CHEMICAL- WATER	Water for Storage Batteries	Total Dissolved Solids	IS 3025 (P-16)
167	CHEMICAL- WATER	Water for Storage Batteries	Total Solids	IS 3025 (P-15)
168	CHEMICAL- WATER	Water for Storage Batteries	Total Solids	APHA 23rd Edition 2540 B
169	CHEMICAL- WATER	Water for Storage Batteries	Total Suspended Solids	APHA 23rd Edition 2540 D
170	CHEMICAL- WATER	Water for Storage Batteries	Total Suspended Solids	IS 3025 (P-17)
171	CHEMICAL- WATER	Water for Storage Batteries	Turbidity	IS 3025 (P-10)
172	CHEMICAL- WATER	Water for Storage Batteries	Turbidity	APHA 23rd Edition 2130 B
173	CHEMICAL- WATER	Water for Swimming Pool	Acidity as CaCO3	APHA 23rd Edition 2310 B
174	CHEMICAL- WATER	Water for Swimming Pool	Acidity as CaCO3	IS 3025 (P-22)
175	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity as CaCO3	APHA 23rd Edition 2320 B
176	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity as CaCO3	IS 3025 (P-23)
177	CHEMICAL- WATER	Water for Swimming Pool	Conductivity	APHA 23rd Edition 2510 B
178	CHEMICAL- WATER	Water for Swimming Pool	Conductivity	IS 3025 (P-14)
179	CHEMICAL- WATER	Water for Swimming Pool	Dissolved Oxygen	APHA 23rd Edition 4500 O B

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180	CHEMICAL- WATER	Water for Swimming Pool	Dissolved Oxygen	IS 3025 (P-38)
181	CHEMICAL- WATER	Water for Swimming Pool	pH	IS 3025 (P-11)
182	CHEMICAL- WATER	Water for Swimming Pool	pH	APHA 23rd Edition 4500 H
183	CHEMICAL- WATER	Water for Swimming Pool	Temperature	APHA 23rd Edition 2550 B
184	CHEMICAL- WATER	Water for Swimming Pool	Temperature	IS 3025 (P-9)
185	CHEMICAL- WATER	Water for Swimming Pool	Total Dissolved Solids	APHA 23rd Edition 2540 C
186	CHEMICAL- WATER	Water for Swimming Pool	Total Dissolved Solids	IS 3025 (P-16)
187	CHEMICAL- WATER	Water for Swimming Pool	Total Hardness as CaCO3	APHA 23rd Edition 2340 C
188	CHEMICAL- WATER	Water for Swimming Pool	Total Hardness as CaCO3	IS 3025 (P-21)
189	CHEMICAL- WATER	Water for Swimming Pool	Total Solids	APHA 23rd Edition 2540 B
190	CHEMICAL- WATER	Water for Swimming Pool	Total Solids	IS 3025 (P-15)
191	CHEMICAL- WATER	Water for Swimming Pool	Total Suspended Solids	APHA 23rd Edition 2540 D
192	CHEMICAL- WATER	Water for Swimming Pool	Total Suspended Solids	IS 3025 (P-17)
193	CHEMICAL- WATER	Water for Swimming Pool	Turbidity	IS 3025 (P-10)
194	CHEMICAL- WATER	Water for Swimming Pool	Turbidity	APHA 23rd Edition 2130 B
195	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Appearance	IS 16659:2017 Cl. No.4.2.1, IEC 62770 Cl. No.4.2.1
196	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Density	IS 16659:2017 Cl. No.4.2.5, IEC 62770:2013 Cl. No.4.2.5, IS 16899:2019 Cl. No.4.11, IEEE C57.147:2008 Cl. No.4.11, ISO 3675:1998, IS 1448 (P-16)
197	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Dielectric Dissipation Factor (Tandelta)	IS 16659:2017 Cl. No.4.3.2, IEC 62770:2013 Cl. No.4.3.2, IS 16899:2019 Cl. No.4.6, IEEE C57.147:2008 Cl. No.4.6, IS 6262: 1971 (RA2001), IEC 60247
198	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Flash Point	IS 16659:2017 Cl. No.4.6.1, IEC 62770:2013 Cl. No.4.6.1, IS 16899:2019 Cl. No.4.10, IEEE C57.147:2008 Cl. No.4.10, ISO 2719:2016, IS 1448 (P-21)

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199	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Kinematic Viscosity	IS 16659:2017 Cl. No.4.5.3, IEC 62770:2013 Cl. No.4.5.3, IS 16899:2019 Cl. No.4.9, IEEE C57.147:2008 Cl. No.4.9, ISO 3104: 2017, IS 1448 (P-25): 1976 (RA2002), IEC 61868
200	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Pour Point	IEC 62770:2013 Cl. No.4.2.3, IS 16659:2017 Cl. No.4.2.3, IEEE C57.147:2008 Cl. No.4.12, IS 16899:2019 Cl. No.4.12, ISO 3016:2019, IS 1448 (P-2 S-2)
201	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Resistivity	IEC 62770:2013, IS 16659:2017, IEEE C57.147:2008 Cl. No.4.11, IS 16899:2019 Cl. No.4.11, IEC 60247:2004, IS 6262 (RA2001)
202	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused & Used)	Water Content	IEC 62770:2013 Cl. No.4.2.4, IS 16659:2017 Cl. No.4.2.4, IEEE C57.147:2008 Cl. No.4.16, IS 16899:2019 Cl. No.4.16, IEC 60814: 1997, IS 13567
203	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Unused)	Breakdown Voltage (BDV)	IS 16659: 2017 Cl. No. 4.3.1, IEC 62770: 2013 Cl. No. 4.3.1, IEC 60156: 2018, IS 6792
204	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural Ester (Used)	Breakdown Voltage (BDV)	IEEE C57.147:2008 Cl. No.4.4, IS 16899:2019 Cl. No.4.4, IEC 60516:2018, IS 6792
205	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Appearance	IEC 60836:2015 Cl. No. 8.1.2, IS 16838:2018 Cl. No. 8.1.2, IEC 60944:1988 Cl. No. 2.1, IS 16841 Cl. No. 2.1
206	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Breakdown Voltage (BDV)	IEC 60836:2015 Cl. No. 8.10, IS 16838:2018 Cl. No. 8.10, IEC 60944:1988 Cl. No. 2.6, IS 16841:2018 Cl. No. 2.6, IEC 60156:2018, IS 6792
207	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Density	IEC 60836:2015 Cl. No. 8.2, IS 16838:2018 Cl. No. 8.2, IEC 60944:1988 Cl. No. 2.2, IS 16841:2018 Cl. No. 2.2, ISO 3675:1998, IS 1448 (P-16)

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208	ELECTRICAL- INSULATING MATERIALS & INSULATORS	SIlicone Transformer Liquid (Unused & Used)	Dielectric Dissipation Factor (Tandelta)	IEC 60836:2015 Cl. No. 8.11, IS 16838:2018 Cl. No. 8.11, IEC 60944:1988 Cl. No. 8.11, IS 16841:2018 Cl. No. 2.8, IS 6262:1971 (RA2001), IEC 60247
209	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Flash Point	IEC 60836:2015 Cl. No. 8.4, IS 16838:2018 Cl. No. 8.4, IEC 60944:1988 Cl. No. 2.4, IS 16841:2018 Cl. No. 2.4, ISO 2719:2016, IS 1448 (P-21)
210	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Kinematic Visocisty	IEC 60836:2015 Cl. No. 8.3, IS 16838:2018 Cl. No. 8.3, IEC 60944:1988 Cl. No. 2.3, IS 16841:2018 Cl. No. 2.3, ISO 3104:2017, IS 1448 (P-25):1976 (RA2002), IEC 61868
211	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Pour Pount	IEC 60836:2015 Cl. No. 8.7, IS 16838:2018 Cl. No. 8.7, IEC 60944:1988, IS 16841:2018, ISO 3016:2019, IS 1448 (P-2 S-2)
212	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Resistivity	IEC 60836:2015 Cl. No. 8.11, IS 16838:2018 Cl. No. 8.11, IEC 60944:1988 Cl. No. 8.11, IS 16841:2018 Cl. No. 2.7, IS 6262:1971 (RA2001), IEC 60247
213	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Silicone Transformer Liquid (Unused & Used)	Water Content	IEC 60836:2015 Cl. No. 8.8, IS 16838:2018 Cl. No. 8.8, IEC 60944:1988 Cl. No. 2.5, IS 16841:2018 Cl. No. 2.5, IEC 60814:1997, IS 13567
214	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Acidity	IEC 61099:2010 Cl. No. 7.1.9, IS 16081:2013 (RA2018) Cl. No. 7.1.9, IEC 61203:1992 Cl. No. 3.6, IS 16099:2013 (RA2018) Cl. No. 3.6, IEC 62021-2:2003, IS 16863 (P-2)
215	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Appearance	IEC 61099:2010 Cl. No. 7.1.2, IS 16081:2013 (RA2018) Cl. No. 7.1.2, IS 16099:2013 (RA2018) Cl. No. 3.1, IEC 61203 Cl. No. 9.2,

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216	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Density	IS 16081:2013 (RA2018) Cl. No. 7.1.3, IEC 61099:2010 Cl. No. 7.1.3, IS 16099:2013 (RA2018) Cl. No. 3.2, IEC 61203:1992 Cl. No. 3.2, ISO 3675:1998, IS 1448 (P-16)
217	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Dielectric Dissipation Factor (Tandelta)	IEC 61099:2010 Cl. No. 8.2, IS 16081:2013 (RA2018) Cl. No. 8.2, IEC 61203:1992 Cl. No. 3.9, IS 16099:2013 (RA2018) Cl. No. 3.9, IS 6262:1971 (RA2001), IEC 60247
218	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Flash Point	IS 16081:2013 (RA2018) Cl. No. 7.1.5, IEC 61099:2010 Cl. No. 7.1.5, IS 16099:2013 (RA2018) Cl. No. 3.4, IEC 61203:1992 Cl. No. 3.4, ISO 2719:2016, IS 1448 (P-21)
219	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Kinematic Viscosity	IEC 61099:2010 Cl. No. 7.1.4, IS 16081:2013 (RA2018) Cl. No. 7.1.4, IEC 61203:1992 Cl. No. 3.3, IS 16099:2013 (RA2018) Cl. No. 3.3, ISO 3104:2017, IS 1448 (P-25):1976 (RA2002), EC 61868:1998
220	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Pour Point	IEC 61099:2010 Cl. No. 7.1.6, IS 16081:2013 (RA2018) Cl. No. 7.1.6, IEC 61203:1992, IS 16099:2013 (RA2018), ISO 3016:2019, IS 1448 (P-2 S-2)
221	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Resistivity	IEC 61099:2010 Cl. No. 8.2, IS 16081:2013 (RA2018) Cl. No. 8.2, IEC 61203:1992 Cl. No. 3.8, IS 16099:2013 (RA2018) Cl. No. 3.8, IS 6262:1971 (RA2001), IEC 60247
222	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused & Used)	Water Content	IS 16081:2013 (RA2018) Cl. No. 7.1.8, IEC 61099:2010 Cl. No. 7.1.8, IS 16099:2013 (RA2018) Cl. No. 3.5, IEC 61203:1992 Cl. No. 3.5, IEC 60814:1997, IS 13567

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223	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Unused)	Breakdown Voltage (BDV)	IS 16081: 2013 (RA2018) Cl. No. 8.1, IEC 61099: 2010 Cl. No. 8.1, IEC 60156: 2018, IS 6792
224	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Synthetic Organic Ester (Used)	Breakdown Voltage (BDV)	IS 16099: 2013 (RA2018) Cl. No. 3.7, IEC 61203: 1992 Cl. No. 3.7, IEC 60156: 2018, IS 6792
225	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Tranformer Oil (New & Used)	Oxidation Stability (Total Acidity)	IS 335: 2018 Cl. No. 6.12, IEC 60296:2020 Cl. No. 6.13, IS 12422: 2017, IEC 61125: 2018, IEC 62021-2: 2003, IS 16863 (P-2)
226	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Appearance	IS 335: 2018 Cl. No. 6.6, IEC 60296 Cl. No. 6.7
227	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Breakdown Voltage (BDV)	IS 335: 2018 Cl. No. 6.4, IS 60296: 2020 Cl. No. 6.4, IS 1866: 2017 Cl. No. 5.3, IEC 60422: 2013 Cl. No. 5.3, IEC 60156: 2018, IS 6792
228	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Corrosive Sulphur	IS 335 (Annex-B): 2018 Cl. No. 6.10, IEC 60296 (Annex-B): 2020 Cl. No. 6.11, IS 1866: 2017 Cl. No. 5.17, IEC 60422: 2013 Cl. No. 5.17, ASTM D1275: 2015, IEC 62535
229	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Density	IS 335: 2018 Cl. No. 6.16, IEC 60296: 2020 Cl. No. 6.5, IS 1866: 2017 Cl. No. 5.14, IEC 60422: 2013 Cl. No. 5.14, ISO 3675: 1998, IS 1448 (P-16)
230	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Acetylene)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104:2019, IEEE Std. C57.139
231	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Carbon Dioxide)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104:2019, IEEE Std. C57.139

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232	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Carbon Monoxide)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
233	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Ethane)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
234	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Ethylene)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
235	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Hydrogen)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
236	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Methane)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
237	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Nitrogen)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
238	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Oxygen)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593:2018, IEEE Std C57.104: 2019, IEEE Std. C57.139
239	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Propane)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593: 2018, IEEE Std C57.104
240	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	DGA (Propylene)	IS 1866 Cl. No. 7.8, IS 9434: 2019, IEC 60567: 2011, IEC 60599: 2015, IS 10593: 2018, IEEE Std C57.104

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241	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Dielectric Dissipation Factor (Tandelta)	IS 335: 2018 Cl. No. 6.5, IEC 60296: 2020 Cl. No. 6.6, IS 1866: 2017 Cl. No. 5.6, IEC 60422: 2013 Cl. No. 5.6, IS 6262: 1971 (RA2001), IEC 60247
242	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Flash Point	IS 335: 2018 Cl. No. 6.15, IEC 60296: 2020 Cl. No. 6.14, IS 1866: 2017 Cl. No. 5.11, IEC 60422: 2013 Cl. No. 5.11, ISO 2719: 2016, IS 1448 (P-21)
243	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Interfacial Tension	IS 335: 2018 Cl. No. 6.8, IEC 60296: 2020 Cl. No. 6.9, IS 1866: 2017 Cl. No. 5.9, IEC 60422: 2013 Cl. No. 5.9, ISO 6295: 1983, IS 6104: 1971 (RA2001), ASTM D971
244	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Kinematic Viscosity	IS 335: 2018 Cl. No. 6.1, IEC 60296: 2020 Cl. No. 6.1, IS 1866: 2017 Cl. No. 5.15, IEC 60422: 2013 Cl. No. 5.15, ISO 3104: 2017, IS 1448 (P-25): 1976 (RA2002), IEC 61868
245	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Neutralization Value (Acidity)	IS 335: 2018 Cl. No. 6.7, IEC 60296: 2020 Cl. No. 6.8, IS 1866: 2017 Cl. No. 5.5, IEC 60422: 2013 Cl. No. 5.5, IEC 62021-1: 2003, IS 16863 (P-1): 2018, IS 1448 (P-2)
246	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Potentially Corrosive Sulphur	IS 335 (Annex-B): 2018 Cl. No. 6.10, IEC 60296 (Annex-B): 2020 Cl. No. 6.11, ASTM D1275: 2015, IEC 62535
247	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Pour Point	IS 335: 2018 Cl. No. 6.2, IEC 60296: 2020 Cl. No. 6.2, IS 1866: 2017 Cl. No. 5.13, IEC 60422: 2013 Cl. No. 5.13, ISO 3016: 2019, IS 1448 (P-2 S-2)
248	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oil (New & Used)	Resistivity	IS 335: 2018 Cl. No. 6.5, IEC 60296: 2020 Cl. No. 6.6, IS 1866: 2017 Cl. No. 5.6, IEC 60422: 2013 Cl. No. 5.6, IS 6103: 1971 (RA2001), IEC 60247

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249	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oils (New & Used)	Neutralization Value (Acidity)	IS 335: 2018 Cl. No. 6.7, IEC 60296: 2020 Cl. No. 6.8, IS 1866: 2017 Cl. No. 5.5, IEC 60422: 2013 Cl. No. 5.5, IEC 62021-2: 2003, IS 16863 (P-2)
250	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oils (New & Used)	Sediments	IEC 60422 (Annex-C): 2013 Cl. No. 5.8, IS 1866 (Annex-C): 2017 Cl. No. 5.8, IEC 61125
251	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oils (New & Used)	Sludge	IEC 60422 (Annex-C): 2013 Cl. No. 5.8, IS 1866 (Annex-C): 2017 Cl. No. 5.8, IEC 61125
252	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Insulating Oils (New & Used)	Water Content	IS 335: 2018 Cl. No. 6.3, IEC 60296: 2020 Cl. No. 6.3, IS 1866: 2017 Cl. No. 5.4, IEC 60422: 2013 Cl. No. 5.4, IEC 60814: 1997, IS 13567
253	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Compatibility	IS 1866: 2017 Cl. No. 6.12, IEC 60422: 2013 Cl. No. 6.12, IS 12422: 2017, IEC 61125
254	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis (2-acetylfuran (2ACF))	IS 335: 2018 Cl. No. 6.19, IEC 60296 Cl. No. 6.17: 2020, IS 15668:2006, IEC 61198
255	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis (2-furfural (2FAL))	IS 335: 2018 Cl. No. 6.19, IEC 60296 Cl. No. 6.17: 2020, IS 15668:2006, IEC 61198
256	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis (2-furfurylalcohol (2FOL))	IS 335: 2018 Cl. No. 6.19, IEC 60296 Cl. No. 6.17: 2020, IS 15668:2006, IEC 61198
257	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis (5-hydroxymethyl-2-furfural (5HMF))	IS 335: 2018 Cl. No. 6.19, IEC 60296 Cl. No. 6.17: 2020, IS 15668:2006, IEC 61198
258	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Furan Analysis (5-methyl-2-furfural (5MEF))	IS 335: 2018 Cl. No. 6.19, IEC 60296 Cl. No. 6.17: 2020, IS 15668:2006, IEC 61198
259	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Oxidation Stability (Dielectric Dissipation Factor (Tandelta))	IS 335: 2018 Cl. No. 6.12, IEC 60296: 2020 Cl. No. 6.13, IS 12422: 2017, IEC 61125: 2018, IS 6262: 1971 (RA2001), IEC 60247
260	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Oxidation Stability (Sludge)	IS 335: 2018 Cl. No. 6.12, IEC 60296: 2020 Cl. No. 6.13, IS 12422: 2017, IEC 61125

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Site Facility				
1	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil & other Insulating Oils (New & Used)	Sampling	IEC 60475: 2011, IS 6855
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (New & Used)	Sampling	IEC 60567: 2011, IS 9434

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.