National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HINDALCO INDUSTRIES LIMITED, HIC SEMI FAB, PLOT NO. 2, MIDC, TALOJA AV, NAVI MUMBAI PANVEL, RAIGAD, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Appearance	SOP No. HIC/NABL/LC/L3/002 Issue No.01 Rev. No.00 12 Dec
2	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Contamination by Gum Tester, % by mass	SOP No. HIC/NABL/LC/L3/039 Issue No.01 Rev. No.00 16 Feb
3	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Contamination Level (Heavy Ends)	SOP No. HIC/NABL/LC/L3/012 Issue No.01 Rev. No.00 12 Dec
4	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Fatty Alcohol Concentration, % by mass	SOP No. HIC/NABL/LC/L3/022 Issue No.01 Rev. No.00 12 Dec
5	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Moisture Content	IS 13567
6	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Neutralization Number	ASTM D974
7	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Particulate Ash	SOP No. HIC/NABL/LC/L3/015 Issue No.01 Rev. No.00 12 Dec
8	CHEMICAL- LUBRICANTS	Bearing Oil, Rolling oil, Gear Oil Hydraulic Oil, Thermic Fluid, Emulsion, Turbine Oil	Total Ash Content, % by mass	IS 1448 (Part 4) : Sec 1
9	CHEMICAL- LUBRICANTS	Emulsion	Conductivity	IS 3025 (Part 14)
10	CHEMICAL- LUBRICANTS	Emulsion, Gear Oil Hydraulic Oil, Bearing Oil, Thermic Fluid, Rolling oil, Turbine Oil	Kinematic Viscosity at 40 Deg C of Rolling Emulsion after separation of oil by vacuum evaporator	SOP No. HIC/NABL/LC/L3/032 Issue No.01 Rev. No.00 13 Dec
11	CHEMICAL- LUBRICANTS	Emulsion, Gear Oil Hydraulic Oil, Bearing Oil, Thermic Fluid, Rolling oil, Turbine Oil	Oil Concentration by Acid-split method, % volume	SOP No. HIC/NABL/LC/L3/007 Issue No.01 Rev. No.00 12 Dec
12	CHEMICAL- LUBRICANTS	Emulsion, Gear Oil Hydraulic Oil, Bearing Oil, Thermic Fluid, Rolling oil, Turbine Oil	Particle Size Analysis	SOP No. HIC/NABL/LC/L3/038 Issue No.01 Rev. No.00 02 Feb
13	CHEMICAL- LUBRICANTS	Emulsion, Gear Oil Hydraulic Oil, Bearing Oil, Thermic Fluid, Rolling oil, Turbine Oil	pH	IS 3025 (Part 11)
14	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Carbon Chain Distribution of HNP by GC Method C-15	SOP No. HIC/NABL/LC/L3/037 Issue No.01 Rev. No.00 02 Feb
15	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Carbon Chain Distribution of HNP by GC Method, % volume C-13	SOP No. HIC/NABL/LC/L3/037 Issue No.01 Rev. No.00 02 Feb
16	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Carbon Chain Distribution of HNP by GC Method, % volume C-14	SOP No. HIC/NABL/LC/L3/037 Issue No.01 Rev. No.00 02 Feb
17	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Carbon Chain Distribution of HNP by GC Method, % volume C-16	SOP No. HIC/NABL/LC/L3/037 Issue No.01 Rev. No.00 02 Feb

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18	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Carbon Chain Distribution of HNP by GC Method, % volume C-17	SOP No. HIC/NABL/LC/L3/037 Issue No.01 Rev. No.00 02 Feb
19	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Colour	ASTM D1500-12
20	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Copper corrosion	IS 1448 (Part 15)
21	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Density by Digital Density meter	ASTM D4052 - 18a
22	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Density by Hydrometer	IS 1448 (Part 16) /ASTM D 1298-12b
23	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Distillation Range (FBP)(by automatic Instrument)	ASTM D86-20b
24	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Distillation Range (FBP)(by manual Instrument)	IS 1448 (Part 18)
25	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Distillation Range (IBP) (by automatic Instrument)	ASTM D 86-20b
26	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Distillation Range (IBP)(by manual Instrument)	IS 1448(Part 18)
27	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Ferrography - Ferrous	ASTM D7596 : 2014/ASTM D8120
28	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Ferrography - NAS No	ASTM D7596 - 14 / SOP No. HIC/NABL/LC/L3/025 Issue No.01 Rev. No.00 12 Dec: 2013/ASTM D6786
29	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Flash Point (COC) by Auto COC Tester	ASTMD92
30	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Flash Point (COC) by Manual COC Tester	IS 1448(Part 69)
31	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Flash Point (PMCC) by Auto PMCC tester	ASTM D93 / ISO 2719
32	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Flash Point (PMCC)by Manual PMCC tester	IS 1448 : Part 21
33	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Kinematic Viscosity at 100 Deg C by Auto Viscometer	IS 1448 (Part 25): Sec 1 / ASTM D445
34	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Kinematic Viscosity at 100 Deg C Manual	IS 1448 (Part 25): Sec 1 / ASTM D445
35	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Kinematic Viscosity at 40 Deg C by Auto Viscometer	IS 1448 (Part 25): Sec 1 / ASTM D445

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36	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Kinematic Viscosity at 40 Deg C Manual	IS 1448 (Part 25): Sec 1 / ASTM D445
37	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Kinematic Viscosity at 50 Deg C Manual	IS 1448 (Part 25): Sec 1 / ASTM D445
38	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Pour Point	IS 1448 : Part 10 : Sec 2
39	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	RPVOT Value	ASTM D2272 -14a
40	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Sediments, % by volume	IS 1448 : Part 41
41	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Sulphated Ash	IS 1448 : Part 4 : Sec 2
42	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Bearing Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil	Viscosity Index	IS 1448 (Part 56)
43	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) Magnesium- Mg	ASTM D5185
44	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Aluminum - Al	ASTM D5185
45	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Boron - B	ASTM D5185
46	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Cadmium - Cd	ASTM D5185

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47	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Calcium - Ca	ASTM D5185
48	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Chromium - Cr	ASTM D5185
49	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Copper - Cu	ASTM D5185
50	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Iron - Fe	ASTM D5185
51	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Lead - Pb	ASTM D5185
52	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Manganese - Mn	ASTM D5185
53	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Nickel - Ni	ASTM D5185

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54	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Phosphorus - P	ASTM D5185
55	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Silicon -Si	ASTM D5185
56	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Silver - Ag	ASTM D5185
57	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Sodium - Na	ASTM D5185
58	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Tin - Sn	ASTM D5185
59	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Titanium - Ti	ASTM D5185
60	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Vanadium (V)	ASTM D5185

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61	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Zinc - Zn	ASTM D5185
62	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Barium - Ba	ASTM D5185
63	CHEMICAL- LUBRICANTS	Gear Oil, Hydraulic Oil, Thermic Fluid, Emulsion, Rolling oil, Turbine Oil, Bearing Oil	Multi element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES). Molybdenum - Mo	ASTM D5185
64	CHEMICAL- LUBRICANTS	Greases	Consistency of Grease	IS 1448(Part 60)
65	CHEMICAL- LUBRICANTS	Greases	Drop Point	IS 1448 : Part 52
66	CHEMICAL- SOLID FUELS	Coal	Ash by TGA	ASTM D7582
67	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon by TGA	ASTM D7582
68	CHEMICAL- SOLID FUELS	Coal	Gross Calorific value by Calorimeter, cal/gram	ASTM D5865 / D5865M
69	CHEMICAL- SOLID FUELS	Coal	Moisture by TGA	ASTM D7582
70	CHEMICAL- SOLID FUELS	Coal	Sulfur by CS Analyzer	ASTM D 4239 18e
71	CHEMICAL- SOLID FUELS	Coal	Volatile matter by TGA	ASTM D7582
72	CHEMICAL- SOLID FUELS	Fuel Oil	Gross Calorific value of Liquid Hydrocarbon Fuels by Calorimeter, cal/gram	ASTM D240
73	CHEMICAL- SOLID FUELS	Fuel Oil	Sulfur in Furnace oil, % by mass	ASTM D1552
74	CHEMICAL- SOLID FUELS	Fuel Oil	Water Content by Distillation	IS 1448 : Part 40
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis (PNA) by FTIR - Aromatic (CA)	IS 13155
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis (PNA) by FTIR - Naphthenic (CN)	IS 13155

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77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Carbon Type Analysis (PNA) by FTIR - Paraffin (CP)	IS 13155
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Concentration (DBPC) in Oil	IS 13631
79	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Density at 27 Deg. C	IS 1448 : Part 16 / ISO : 3675 / ASTM D4052 - 18a
80	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Constant	IEC: 60247
81	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Constant	IS 6262
82	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor (Tan Delta)	IEC: 60247
83	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dielectric Dissipation Factor (Tan Delta)	IS 6262
84	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - C2H2	ASTM D3612, Method C
85	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - C2H4	ASTM D3612, Method C
86	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - C2H6	ASTM D3612, Method C
87	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - CH4	ASTM D3612, Method C
88	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - CO	ASTM D3612, Method C
89	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - CO2	ASTM D3612, Method C
90	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Dissolved Gas Analysis - Hydrogen	ASTM D3612, Method C

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91	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Electric Strength	IS 6792: 2017/IEC60156
92	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash Point (PMCC)	IS 1448 : Part 21: 2019/ASTM D93: 2020/ISO 2719
93	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furanic Compound by HPLC 2-Acetyl furan	IEC : 61198
94	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furanic Compound by HPLC 2-Furfural	IEC : 61198
95	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furanic Compound by HPLC 2-Furfuryl Alcohol	IEC : 61198
96	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furanic Compound by HPLC 5 - Hydroxy methyl -2-furfural	IEC : 61198
97	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Furanic Compound by HPLC 5-Methyl -2- Furfural	IEC : 61198
98	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Interfacial Tension	IS 6104 /ASTM D97
99	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Moisture Content	IS 13567
100	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Neutralization Number	ASTM D974 : 2021 / IEC 62021-1
101	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Sediment &/ or Precipitable Sludge	IS 1866 Annexure C
102	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Specific Resistivity	IEC: 60247
103	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Specific Resistivity	IS 6103