National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GANDHAR OIL REFINERY INDIA LIMITED, PLOT NO. 2, SURVEY NO. 678/1/3 & 675/1/2, SILVASSA, DADRA AND NAGAR HAVELI, 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	Multi grade Lubricating Oil	Air Release Value	ASTM D 3427
2	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Air Release Value	IP 313
3	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Air Release Value	IS 1448 (P 102)
4	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Density @ 15 deg. C	ASTM D 1298
5	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Density @ 15 deg. C	IS 1448 (P 16)
6	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Density @ 15 deg. C	ISO 3675
7	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Emulsion Characteristics (Demulsibility Test)	IS 1448 (P 91)
8	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Flash Point (Cleveland Open Cup - COC)	IS 1448 (P 69)
9	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	High Temperature - High Shear test (HTHS)	ASTM D 4683
10	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	High Temperature - High Shear test (HTHS)	ASTM D 6616
11	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Kinematic Viscosity @ 100 deg. C	IS 1448 (P 25 Sec 1)
12	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Kinematic Viscosity @ 100 deg. C	ISO 3104
13	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Kinematic Viscosity @ 100 deg.C	ASTM D 445
14	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Low Temperature Cranking Viscosity (CCS)	ASTM D 5293
15	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Total Acid Number (Acidity)	IS 1448 (P 2)
16	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Total Acid Number (Acidity)	ASTM D 664
17	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Total Base Number (TBN)	ASTM D 2896
18	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Total Base Number (TBN)	IS 1448 (P 1 Sec 2)
19	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Viscosity Index	ASTM D 2270
20	CHEMICAL- LUBRICANTS	Multi grade Lubricating Oil	Viscosity Index	IS 1448 (P 56)
21	CHEMICAL- LUBRICANTS	Multigrade Lubricating oil	Foaming tendency	IS 1448 (P 67), ASTM D 892
22	CHEMICAL- LUBRICANTS	Multigrade lubricating oil	Kinematic Viscosity @ 40 deg. C	ASTM D 445, IS 1448 (P 25)
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	2-Furfural & Related Compounds	IEC 61198

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24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	2-Furfural & Related Compounds	IS 15668
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Appearance	SOP/QC/001 Issue No.01 Issue Date: 01/09/2019 Rev.No.01 Rev. Date 01/08/2021
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Carbon Type Analysis (Aromatic Content)	IEC 60590
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Carbon Type Analysis (Aromatic Content)	IS 13155
28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Carbon Type Analysis (Naphthenic Content)	IEC 60590
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Carbon Type Analysis (Naphthenic Content)	IS 13155
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Carbon Type Analysis (Paraffinic Content)	IEC 60590
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Carbon Type Analysis (Paraffinic Content)	IS 13155
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Corrosive Sulfur	ASTM D 1275 B
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Corrosive Sulfur	DIN 51353
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Corrosive Sulfur	IS 335 Annexure B
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Density @ 20 deg. C	ASTM D 1298
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Density @ 20 deg. C	IS 1448 (P 16)
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Density @ 20 deg. C	ISO 3675

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38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Density @ 29.5 deg. C	ASTM D 1298
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Density @ 29.5 deg. C	IS 1448 (P 16)
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Density @ 29.5 deg. C	ISO 3675
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Dibenzyldisulfide (DBDS)	IEC 62697-1
42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Dibenzyldisulfide (DBDS)	IS 16497 (P 1)
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Dielectric Dissipation Factor (Tan delta)	IEC 60247
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Dielectric Dissipation Factor (Tan delta)	IS 16086
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Dielectric Dissipation Factor (Tan delta)	IS 6262
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Electric Strength Breakdown Voltage (BDV)	IEC 60156
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Electric Strength Breakdown Voltage (BDV)	IS 6792
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Flash Point (Cleveland Open Cup - COC)	ASTM D 92
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Flash Point (Cleveland Open Cup - COC)	IS 1448 (P 69)
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Flash Point (Pensky-Martens Closed Cup - PMCC)	ASTM D 93
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Flash Point (Pensky-Martens Closed Cup - PMCC)	IS 1448 (P 21)

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52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Flash Point (Pensky-Martens Closed Cup - PMCC)	ISO 2719
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Gassing Tendency	ASTM D 2300
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Gassing Tendency	IEC 60628 (Method A)
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Inhibitors (Antioxidant)	IEC 60666
56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Inhibitors (Antioxidant)	IS 13631
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Interfacial Tension @ 27 deg. C	ASTM D 971
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Interfacial Tension @ 27 deg. C	IS 6104
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Interfacial Tension @ 27 deg. C	ISO 6295
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 0 deg. C	ASTM D 445
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 0 deg. C	IS 1448 (P 25)
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 0 deg. C	ISO 3104
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 27 deg. C	ASTM D 445
64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 27 deg. C	IS 1448 (P 25)
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 27 deg. C	ISO 3104

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66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ -30 deg. C	ASTM D 445
67	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ -30 deg. C	IS 1448 (P 25)
68	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ -30 deg. C	ISO 3104
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 40 deg. C	ASTM D 445
70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 40 deg. C	IS 1448 (P 25)
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Kinematic Viscosity @ 40 deg. C	ISO 3104
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Metal Passivator Additives	IEC 60666
73	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Metal Passivator Additives	IS 13631
74	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Negative impulse testing	ASTM D 3300
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Neutralization Value (Acidity)	IEC 62021-1/2
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Neutralization Value (Acidity)	IS 1448 (P 2)
77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Dielectric Dissipation Factor @ 90 deg. C)	IEC 61125
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Dielectric Dissipation Factor at 90 deg. C)	IS 12422 Method C
79	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Dielectric Dissipation Factor at 90 deg. C)	IS 335 Annex C

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80	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Sludge %)	IEC 61125
81	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Sludge %)	IS 12422 Method C
82	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Sludge %)	IS 335 Annex C
83	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Total Acidity)	IEC 61125
84	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Total Acidity)	IS 12422 Method C
85	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation Stability (Total Acidity)	IS 335 Annex C
86	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Oxidation stability by Rotating bomb pressure vessel method (RBOT)	ASTM D 2112e, IS 12958
87	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Particle Content for > 14 µ size	IEC 60970
88	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Particle Content for > 14 µ size	IS 13236
89	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Particle Content for > 4 µ size	IEC 60970
90	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Particle Content for > 4 µ size	IS 13236
91	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Particle Content for > 6 µ size	IEC 60970
92	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Particle Content for > 6 µ size	IS 13236
93	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	PCA (Polycyclic Aromatic) Content	IP 346

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94	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	PCB (Polychlorinated Biphenyl) Content	IEC 61619, IS 16082
95	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Potentially Corrosive Sulfur	IEC 62535
96	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Potentially Corrosive Sulfur	IS 16310
97	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Pour Point	ASTM D 97
98	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Pour Point	IS 1448 (P 10, Sec 2)
99	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Pour Point	ISO 3016
100	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Specific Resistance (Resistivity) @ 27 deg. C	IEC 60247
101	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Specific Resistance (Resistivity) @ 27 deg. C	IS 6103
102	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Specific resistance (Resistivity) @ 90 deg. C	IS 6103
103	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Specific resistance (Resistivity) at 90 deg. C	IEC 60247
104	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Stray gassing under thermo-oxidative stress for Ethane (C2H6) gas	Procedure in Clause A.4 of IEC 60296 (oil saturated with air) in the presence of copper
105	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Stray gassing under thermo-oxidative stress for Hydrogen (H2) gas	Procedure in Clause A.4 of IEC 60296 (oil saturated with air) in presence of copper
106	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Stray gassing under thermo-oxidative stress for Methane (CH4) gas	Procedure in Clause A.4 of IEC 60296 (oil saturated with air) in presence of copper
107	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited & Un-Inhibited Mineral Insulating Oil (Divyol-Transformer oil)	Total sulfur content	ISO 14596, ASTM D 4294