



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

GLOBAL ELECTRICAL LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

302, SUN ENCLAVE, MANJALPUR, VADODARA, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-5546

Issue Date: 09/12/2018

Valid Until: 08/12/2020*

*The validity is extended for one year up to 08.12.2021

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : GLOBAL ELECTRICAL LABORATORY

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	GLOBAL ELECTRICAL LABORATORY, 302, SUN ENCLAVE, MANJALPUR, VADODARA, GUJARAT, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5546
Validity	09/12/2018 to 08/12/2020*
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	Last Amended on 21/12/2018

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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	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IEC 60422
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IS 1866
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IS 335 Cl.9.1 t
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IS12463
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	COLOUR	IS 1448(PART 12)
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	COLOUR	IS 1866
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	COLOUR	ISO 2049
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	ASTM D1275
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	DIN 51353
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	IEC 62535
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	IS 1866
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DEGREE OF POLYMERISATION	ASTM D4243
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DEGREE OF POLYMERISATION	IEC 60450



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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IEC 60422
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IS 1448(PART 16)
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IS 1866
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IS 335,CI.9.1.X
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IEC 60422
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 12463
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 1866
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 335,CI.9.1.x
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 6262
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IEC 60567
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IEC 60599
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IS 10593



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26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IS 1866
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IS 9434
28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IEC 60422
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 12463
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 1866
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 335 Cl.9.1.ix
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 6792
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FIRE POINT	IEC 62770
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FIRE POINT	IS 1448(PART 69)
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FIRE POINT	ISO 2592
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IEC 60422
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 12463



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38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 1448(PART-21)
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 1866
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 335,CI.9.1.V
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FURAN CONTENT	ASTM D5837
42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FURAN CONTENT	IEC 61198
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FURAN CONTENT	IS 15668
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTER FACIAL TENSION	IEC 60422
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTER FACIAL TENSION	IS 12463
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTER FACIAL TENSION	IS 6104
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTERFACIAL TENSION	IS 1866
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTERFACIAL TENSION	IS 335,CI.9.1.iv
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IEC 60422
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 12463



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51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 1448(PART-25)
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 1866
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 335,CI.9.1.iii
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IEC 60422
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IEC 62021(PART 2)
56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 12463
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 1448(PART 2)
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 1866
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 335,CI9.1.vii
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	ISO 6619
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IEC 60422
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 12463
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 1448(PART 10)



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64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 1866
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 335
66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SEDIMENT AND SLUDGE	IEC 60422
67	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SEDIMENT AND SLUDGE	IS 1866
68	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SEDIMENT AND SLUDGE	IS 335
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE (RESISTIVITY)	IEC 60422
70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 12463
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 1866
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 335,Cl.9.1.ix
73	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 6103
74	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IEC 60422
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 12463
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 13567



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77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 1866
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 335 Cl.9.1.xv