



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



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

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)

Signed for and on behalf of NABL



Anil Relia
Chief Executive Officer

List of Laboratories Accredited in Accordance with the Standard ISO IEC 17025:2017

SL. NO.	NAME & CONTACT DETAILS OF THE LABORATORY	CERTIFICATE NO.	DISCIPLINE	DATE OF ISSUE	DATE OF EXPIRY	VALIDITY EXTENDED UPTO
123.	Global Electrical Laboratory, 302, SUN ENCLAVE, MANJALPUR , Vadodara-390020, Gujarat, India Email : enquiry@gelab.co.in Contact Person: V SHRINET Mobile : 7878078680	TC-5546	Electrical	09.12.2018	08.12.2020	08.12.2021
124.	Intertek India Pvt. Ltd., E-20, Block B-1, Mohan Co-Operative Industrial Area, Mathura Road, New Delhi-110044, Delhi, India Contact Person: Mr. Manas Das	TC-5068	Electrical Electronics	04.11.2019	12.12.2020	12.12.2021
125.	Regional Agmark Laboratory, B3, A&B, RAJAJI BHAVAN, C.G.O. COMPLEX, BESANT NAGAR , Chennai-600090, Tamil Nadu, India Phone/Fax : 044-24915086 / - Email : dmil.tn@nic.in Contact Person: S JOTHI Mobile : 9840567811	TC-8204	Chemical	13.12.2018	12.12.2020	12.12.2021
126.	The Tata Power Company Limited, Strategic Engineering Division, 42-43 HOSUR ROAD, ELECTRONIC CITY , Bengaluru-560100, Karnataka, India Phone/Fax : 080-67859900 / 080- 67859901 Email : akswamy@tatapowersed.com Contact Person: A K Swamy Mobile : 9243700649	TC-5228	Electronics	13.12.2018	12.12.2020	12.12.2021
127.	MitraS.K.Pvt.Ltd., Plotno.178- A,MancheswarIndustrialEstate,Bhubhn eshwar-751010. PhoneNo.:0674-2551916Email- Id:info@mitrask.com,mili@mitrask.co.i n ContactPerson:Ms.MiliDasManager- QualityAssurance	TC-5256	Chemical	13.12.2018	12.12.2020	12.12.2021
128.	Controllerate of Quality Assurance (Metals), ICHAPUR NAWABGANJ P.O , 24 Parganas (n)-743144, West Bengal, India Phone/Fax : 033-25937147 / 033-25618243 Email : cqametichapur-dgqa@nic.in Contact Person: N Krishna Murthy Mobile : 9748755224	TC-6029	Chemical Mechanical NDT	14.12.2018	13.12.2020	13.12.2021



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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
Permanent Facility					
1	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IEC 60422: 2013	Qualitative
2	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IS 1866: 2017	Qualitative
3	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IS 335 Cl.9.1 t: 1993	Qualitative
4	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	APPEARANCE	IS12463: 1998	Qualitative
5	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	COLOUR	IS 1448(PART 12): 2012	0 to 8
6	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	COLOUR	IS 1866: 2017	0 to 8
7	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	COLOUR	ISO 2049: 1996	0 to 8



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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
8	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	ASTM D1275: 2006	Qualitative
9	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	DIN 51353: 1985	Qualitative
10	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	IEC 62535: 2008	Qualitative
11	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	CORROSIVE SULPHUR	IS 1866: 2017	Qualitative
12	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DEGREE OF POLYMERISATION	ASTM D4243: 1993	10 to 2000
13	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DEGREE OF POLYMERISATION	IEC 60450: 2004	10 to 2000
14	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IEC 60422: 2013	0.800 g/cm ³ to 0.900 g/cm ³



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15	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IS 1448(PART 16): 2014	0.800 g/cm ³ to 0.900 g/cm ³
16	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IS 1866: 2017	0.800 g/cm ³ to 0.900 g/cm ³
17	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DENSITY	IS 335,CI.9.1.X: 1993	0.800 g/cm ³ to 0.900 g/cm ³
18	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IEC 60422: 2013	0.000001 to 10
19	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 12463: 1988	0.000001 to 10
20	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 1866: 2017	0.000001 to 10
21	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 335,CI.9.1.x: 1993	0.000001 to 10



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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
22	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DIELECTRIC DISSIPATION FACTOR	IS 6262: 1971	0.000001 to 10
23	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IEC 60567: 2005	1 µl/l to 1000000 µl/l
24	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IEC 60599: 1999	1 µl/l to 1000000 µl/l
25	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IS 10593: 2006	1 µl/l to 1000000 µl/l



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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
26	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IS 1866: 2017	1 µl/l to 1000000 µl/l
27	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	DISSOLVED GAS ANALYSIS (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Carbon dioxide, Methane, Ethylene, Ethyne, Propene + Propylene)	IS 9434: 1992	1 µl/l to 1000000 µl/l
28	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IEC 60422: 2013	1 kV to 100 kV
29	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 12463: 1988	1 kV to 100 kV
30	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 1866: 2017	1 kV to 100 kV
31	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 335 Cl.9.1.ix: 1993	1 kV to 100 kV



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32	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	ELECTRICAL STRENGTH(BREAK DOWN VOLTAGE)	IS 6792: 1992	1 kV to 100 kV
33	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FIRE POINT	IEC 62770: 2013	27 °C to 400 °C
34	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FIRE POINT	IS 1448(PART 69): 2013	27 °C to 400 °C
35	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FIRE POINT	ISO 2592: 2017	27 °C to 400 °C
36	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IEC 60422: 2013	27 °C to 250 °C
37	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 12463: 1988	27 °C to 250 °C
38	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 1448(PART-21): 2012	27 °C to 250 °C



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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
39	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 1866: 2017	27 °C to 250 °C
40	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FLASH POINT	IS 335, CI.9.1.V: 1993	27 °C to 250 °C
41	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FURAN CONTENT	ASTM D5837: 1999	0.01 mg/kg to 50 mg/kg
42	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FURAN CONTENT	IEC 61198: 1993	0.01 mg/kg to 50 mg/kg
43	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	FURAN CONTENT	IS 15668: 2006	0.01 mg/kg to 50 mg/kg
44	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTER FACIAL TENSION	IEC 60422: 2013	1 mN/m to 90 mN/m
45	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTER FACIAL TENSION	IS 12463: 1988	1 mN/m to 90 mN/m



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46	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTER FACIAL TENSION	IS 6104: 1971	1 mN/m to 90 mN/m
47	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTERFACIAL TENSION	IS 1866: 2017	1 mN/m to 90 mN/m
48	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	INTERFACIAL TENSION	IS 335,CI.9.1.iv: 1993	1 mN/m to 90 mN/m
49	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IEC 60422: 2013	1 cSt to 100 cSt
50	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 12463: 1998	1 cSt to 100 cSt
51	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 1448(PART-25): 1976	1 cSt to 100 cSt
52	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 1866: 2017	1 cSt to 100 cSt



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53	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	KINEMATIC VISCOSITY	IS 335, CI.9.1.iii: 1993	1 cSt to 100 cSt
54	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IEC 60422: 2013	0.001 mg KOH/g to 10 mg KOH/g
55	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IEC 62021(PART 2): 2007	0.001 mg KOH/g to 10 mg KOH/g
56	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 12463: 1988	0.001 mg KOH/g to 10 mg KOH/g
57	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 1448(PART 2): 2007	0.001 mg KOH/g to 10 mg KOH/g
58	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 1866: 2000	0.001 mg KOH/g to 10 mg KOH/g
59	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	IS 335, CI.9.1.vii: 1993	0.001 mg KOH/g to 10 mg KOH/g



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60	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	NEUTRALISATION VALUE	ISO 6619: 1988	0.001 mg KOH/g to 10 mg KOH/g
61	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IEC 60422: 2013	-30 °C to 27 °C
62	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 12463: 1988	-30 °C to 27 °C
63	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 1448(PART 10): 2012	-30 °C to 27 °C
64	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 1866: 2017	-30 °C to 27 °C
65	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	POUR POINT	IS 335: 1993	-30 °C to 27 °C
66	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SEDIMENT AND SLUDGE	IEC 60422: 2013	Qualitative



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67	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SEDIMENT AND SLUDGE	IS 1866: 2017	Qualitative
68	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SEDIMENT AND SLUDGE	IS 335: 1993	Qualitative
69	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE (RESISTIVITY)	IEC 60422: 2013	0.01 G Ohm-m to 10000 G Ohm-m
70	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 12463: 2013	0.01 G Ohm-m to 10000 G Ohm-m
71	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 1866: 2017	0.01 G Ohm-m to 10000 G Ohm-m
72	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 335,CI.9.1.ix: 1993	0.01 G Ohm-m to 10000 G Ohm-m
73	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	SPECIFIC RESISTANCE(RESISTIVITY)	IS 6103: 1971	0.01 G Ohm-m to 10000 G Ohm-m



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74	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IEC 60422: 2013	1 mg/kg to 2000 mg/kg
75	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 12463: 1988	1 mg/kg to 2000 mg/kg
76	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 13567: 1992	1 mg/kg to 2000 mg/kg
77	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 1866 : 2017	1 mg/kg to 2000 mg/kg
78	ELECTRICAL-INSULATING MATERIALS & INSULATORS	TRANSFORMER OIL	WATER CONTENT	IS 335 Cl.9.1.xv: 1993	1 mg/kg to 2000 mg/kg