



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ORJA TECHNICAL SERVICES PRIVATE LIMITED, 501-503, 520 BLOCK MS1-A NEW  
SIYAGANJ, INDORE, MADHYA PRADESH, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-11691

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**Validity**

24/05/2023 to 23/05/2025

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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1	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Appearance	"Withdrawn Standard" IS 1866 (Third Revision)
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Appearance	IS 1866
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Appearance	IS 335
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Breakdown Voltage	IEC 60156
5	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Breakdown Voltage	IS 1866 (Clause 5.3)
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Breakdown Voltage	IS 6792
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	IS 1448 (Part 16)
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	IS 1866 (Clause 5.14)
9	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	ISO 3675
10	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric Dissipation Factor	IEC 60247
11	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric Dissipation Factor	IS 1866 (Clause 5.6)
12	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric Dissipation Factor	IS 6262
13	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C <sub>2</sub> H <sub>2</sub> -Acetylene)	ASTM D3612



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14	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H2-Acetylene)	IEC 60567
15	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H2-Acetylene)	IEC 60599
16	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H2-Acetylene)	IS 10593
17	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H2-Acetylene)	IS 9434
18	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H4-Ethylene)	ASTM D3612
19	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H4-Ethylene)	IEC 60567
20	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H4-Ethylene)	IEC 60599
21	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H4-Ethylene)	IS 10593
22	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H4-Ethylene)	IS 9434
23	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H6-Ethane)	ASTM D3612
24	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H6-Ethane)	IEC 60567
25	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H6-Ethane)	IEC 60599
26	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H6-Ethane)	IS 10593
27	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C2H6-Ethane)	IS 9434



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28	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H6-Propylene)	ASTM D3612
29	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H6-Propylene)	IEC 60567
30	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H6-Propylene)	IEC 60599
31	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H6-Propylene)	IS 10593
32	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H6-Propylene)	IS 9434
33	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H8-Propane)	ASTM D3612
34	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H8-Propane)	IEC 60567
35	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H8-Propane)	IEC 60599
36	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H8-Propane)	IS 10593
37	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (C3H8-Propane)	IS 9434
38	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CH4-Methane)	ASTM D3612
39	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CH4-Methane)	IEC 60567
40	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CH4-Methane)	IEC 60599
41	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CH4-Methane)	IS 10593



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42	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CH <sub>4</sub> -Methane)	IS 9434
43	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO - Carbon Monoxide)	IS 9434
44	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO <sub>2</sub> -Carbon Dioxide)	IS 9434
45	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO <sub>2</sub> -Carbon Dioxide)	ASTM D3612
46	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO <sub>2</sub> -Carbon Dioxide)	IEC 60567
47	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO <sub>2</sub> -Carbon Dioxide)	IEC 60599
48	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO <sub>2</sub> -Carbon Dioxide)	IS 10593
49	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO-Carbon Monoxide)	ASTM D3612
50	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO-Carbon Monoxide)	IEC 60567
51	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO-Carbon Monoxide)	IEC 60599
52	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (CO-Carbon Monoxide)	IS 10593
53	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (H <sub>2</sub> -Hydrogen)	ASTM D3612
54	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (H <sub>2</sub> -Hydrogen)	IEC 60567
55	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (H <sub>2</sub> -Hydrogen)	IEC 60599



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56	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (H2-Hydrogen)	IS 10593
57	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (H2-Hydrogen)	IS 9434
58	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (N2-Nitrogen)	ASTM D3612
59	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (N2-Nitrogen)	IEC 60567
60	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (N2-Nitrogen)	IEC 60599
61	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (N2-Nitrogen)	IS 10593
62	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (N2-Nitrogen)	IS 9434
63	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (O2-Oxygen)	ASTM D3612
64	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (O2-Oxygen)	IEC 60567
65	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (O2-Oxygen)	IEC 60599
66	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (O2-Oxygen)	IS 10593
67	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis (O2-Oxygen)	IS 9434
68	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	IS 1448 (Part 21)
69	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	IS 1866 (Clause 5.11)



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70	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	ISO 2719
71	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Interfacial Tension	ASTM D971
72	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Interfacial Tension	IS 1866 (Clause 5.9)
73	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Interfacial Tension	IS 6104
74	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Neutralization Value	IS 1448 (Part 2)
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Neutralization Value	IS 1866 (Clause 5.5)
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Neutralization Value	ISO 6619
77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Pour Point	IS 1448 (Part 10, Sec 2)
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Pour Point	IS 1866 (Clause 5.13)
79	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Pour Point	ISO 3016
80	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Sediments & Sludge	IS 1866
81	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Sediments & Sludge	IS 1866 (Clause 5.8)
82	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Specific Resistance (Resistivity)	IEC 60247
83	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Specific Resistance (Resistivity)	IS 1866 (Clause 5.6)



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84	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Specific Resistance (Resistivity)	IS 6103
85	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 100°C	IS 1448 (Part 25)
86	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 100°C	IS 1448 (Part 25/Sec 1)
87	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 100°C	IS 1866 (Clause 5.15)
88	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 100°C	IS 335
89	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 100°C	ISO 3104
90	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 40°C	IS 1448 (Part 25)
91	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 40°C	IS 1448 (Part 25/Sec 1)
92	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 40°C	IS 1866 (Clause 5.15)
93	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 40°C	IS 335
94	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Viscosity at 40°C	ISO 3104
95	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Water Content	IEC 60814
96	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Water Content	IS 13567
97	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Water Content	IS 1866 (Clause 5.4)



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Site Facility				
1	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Limits of Error Due to other Influence Quantities - Frequency Variation Test	IS 13779 (Clause 11.2)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Limits of Error Due to other Influence Quantities - Phase Sequence Test	IS 13779 (Clause 11.2)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Limits of Error Due to other Influence Quantities - Voltage Unbalance Test	IS 13779 (Clause 11.2)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Limits of Error Due to other Influence Quantities - Voltage Variation Test	IS 13779 (Clause 11.2)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Limits of Error Due to other Influence Quantities - Wave Form 10 % of Third Harmonic in the Current	IS 13779 (Clause 11.2)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Limits of Error/ Accuracy Test	IS 13779 (Clause 11.1)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter, Class 1 & 2 (Energy Meter)	Meter Constant Test	IS 13779 (Clause 12.15)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Watthour and Var-hour Meters (Class 0.2s, 0.5s & 1.0s) (Energy Meters)	Limits of Error Due to other Influence Quantities - Frequency Variation Test	IS 14697 (Clause 11.2)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Watthour and Var-hour Meters (Class 0.2s, 0.5s & 1.0s) (Energy Meters)	Limits of Error Due to other Influence Quantities - Phase Sequence Test	IS 14697 (Clause 11.2)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Watthour and Var-hour Meters (Class 0.2s, 0.5s & 1.0s) (Energy Meters)	Limits of Error Due to other Influence Quantities - Voltage Unbalance Test	IS 14697 + Amd. 4 (Clause 11.2)



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12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Watthour and Var-hour Meters (Class 0.2s, 0.5s & 1.0s) (Energy Meters)	Limits of Error Due to other Influence Quantities - Wave Form 10 % of Third Harmonic in the Current	IS 14697 (Clause 11.2)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Watthour and Var-hour Meters (Class 0.2s, 0.5s & 1.0s) (Energy Meters)	Limits of Error/ Accuracy Test	IS 14697 (Clause 11.1)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Watthour and Var-hour Meters (Class 0.2s, 0.5s & 1.0s) (Energy Meters)	Meter Constant Test	IS 14697 + Amd. 4 (Clause 12.14)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 1A to 3200A (Class 0.1 to 15P)	Accuracy Test (Limits of Displacement Error)	"Withdrawn Standard" IS 2705 (Part 2) Clause 7.1.1, 7.2.1 & IS 2705 (Part 3) Clause 7.1.1
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 1A to 3200A (Class 0.1 to 15P)	Accuracy Test (Limits of Phase Displacement)	IS 16227 (Part 2) Clause 7.2.6 & 7.3.5
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 1A to 3200A (Class 0.1 to 15P)	Accuracy Test (Limits of Ratio Error)	"Withdrawn Standard" IS 2705 (Part 2) Clause 7.1.1, 7.2.1 & IS 2705 (Part 3) Clause 7.1.1
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 1A to 3200A (Class 0.1 to 15P)	Accuracy Test (Limits of Ratio Error)	IS 16227 (Part 2) Clause 7.2.6 & 7.3.5
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 1A to 3200A (Class 0.1 to 15P)	Terminal Marking and Polarity	"Withdrawn Standard" IS 2705 (Part 2) Clause 6 & IS 2705 (Part 1) Clause 9.2
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 1A to 3200A (Class 0.1 to 15P)	Terminal Marking and Polarity	IS 16227 (Part 1) Clause 7.3.6 & IS 16227 (Part 2) Clause 6.13.201
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 220 V to 33 kV (Class 0.2 to 6P)	Accuracy Test (Limits of Phase Displacement Error)	"Withdrawn Standard" IS 3156 (Part 2 & 3) Clause 5, 6, 8
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 220 V to 33 kV (Class 0.2 to 6P)	Accuracy Test (Limits of Phase Displacement Error)	IS 16227 (Part 3, 4 & 5) Clause 7.2.6 & 7.3.5
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 220 V to 33 kV (Class 0.2 to 6P)	Accuracy Test (Limits of Voltage Error)	"Withdrawn Standard" IS 3156 (Part 2 & 3) Clause 5, 6, 8
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 220 V to 33 kV (Class 0.2 to 6P)	Accuracy Test (Limits of Voltage Error)	IS 16227 (Part 3, 4 & 5) Clause 7.2.6 & 7.3.5



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26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 220 V to 33 kV (Class 0.2 to 6P)	Terminal Marking and Polarity	IS 16227 (Part 3 & 5) Clause 6.13