# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** ELECTRICAL TESTING LABORATORY, GEMINI INSTRATECH LIMITED, B-83,MIDC AMBAD, NASHIK, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-10693 **Page No** 1 of 2

**Validity** 09/06/2022 to 08/06/2024 **Last Amended on** -

| 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- INDUCTORS & TRANSFORMERS | Current Transformer | Accuracy | IEC-61869-1 ,Cl 7.3.5, IEC-61869-2,Cl 7.3.5, 7.2.6 & IS-16227-1,Cl 7.3.5, IS 16227-2,Cl 7.3.5, 7.2.6 |
| 2 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Capacitance & Dissipation factor (Tan delta) | IEC-61869-1-Cl 7.4.3 & IS 16227-1 Cl 7.4.3 |
| 3 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Composite error of Class P & PR protective current. | IEC 61869-2, CL 7.2.203 & 7.5.203 & IS 16227-2, CL 7.2.203 & 7.5.203 |
| 4 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Instrument Security Factor. | IEC-61869-2, Cl 7.2.6.202,7.5.2 & IS16227-2, Cl 7.2.6.202,7.5.2 |
| 5 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Inter-turn over-voltage | IEC-61869-2, Clause 7.3.204 & IS 16227-2, Clause 7.3.204 |
| 6 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Partial discharge measurement. | IEC-61869-2, Clause 7.3.2 & IS-16227-2, Clause 7.3.2 |
| 7 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Power frequency dry withstand on secondary winding. | IEC-61869-1, Cl 7.3.4,5.3.5, 7.3.3, 5.3.4 IS 16227-1, Cl 7.3.4,5.3.5, 7.3.3, 5.3.4 |
| 8 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Power frequency dry withstand on primary windings. | IEC-61869-1 & IEC 61869 -2 , Clause 7.3.1 IS 16227-1- & IS 16227 -2 , Clause 7.3.1 |
| 9 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Rated Knee point e.m.f. and exciting current. | IEC-61869-2, Cl. 7.3.203 & IS 16227-2, Cl. 7.3.203 |
| 10 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Secondary winding resistance. | IEC-61869-2, Cl 7.3.201 & IS 16227-2, Cl 7.3.201 |
| 11 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Temperature rise | IEC-61869-1, Cl. 7.2.2,6.4.1& IS 16227-1, Cl. 7.2.2,6.4.1 |
| 12 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Current Transformer | Verification of Terminal marking and polarity. | IEC-61869-1& IEC 61869 -2 Cl 7.3.6 IS16227-1& IS 61227 -2 Cl 7.3.6 |
| 13 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Accuracy | IEC 61869-3,Clause 7.3.5 & IS 16227-3,Clause 7.3.5 |
| 14 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Capacitance & Dissipation factor | IEC 61869-1,Clause 7.4.3 & IS 16227-1,Clause 7.4.3 |
| 15 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Partial discharge measurement. | IEC 61869-1, Clause 7.3.2 & IS 16227-1, Clause 7.3.2 |
| 16 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Power frequency dry withstand on secondary Winding | IEC 61869-1,Clause 7.3.4 & IS 16227-1,Clause 7.3.4 |

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| 17 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Power-frequency withstand on primary winding (Induced). | IEC 61869-3,Clause 7.3.1.303 IS 16227-3,Clause 7.3.1.303 |
| 18 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Power-frequency withstand tests on primary winding (separate source) | IEC 61869-3,Clause 7.3.1.302 & IS 16227-3,Clause 7.3.1.302 |
| 19 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Temperature Rise | IEC 61869-3,Clause 7.2.2 & IS 16227-3,Clause 7.2.2 |
| 20 | ELECTRICAL- INDUCTORS & TRANSFORMERS | Voltage Transformer | Verification of Terminal marking and polarity. | IEC 61869-1,Clause 7.3.6 & IS 16227-1,Clause 7.3.6 |