



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name LUSTRE ENGINEERING CORPORATION, R 208, TTC INDUSTRIAL AREA, MIDC RABALE, NAVI MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8325 Page No. : 1 / 3

Validity 01/02/2019 to 31/01/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

| 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-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Breakdown voltage test for oil | IS 6792: 1992 | 10 kV to 100 kV |
| 2 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Composite error measurement | IEC 61869-2: 2012 | 0.5 % to 15 % |
| 3 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Determination of errors according to the requirements of appropriate accuracy class | IEC 61869-1: 2007 | Ratio Error 0.05%Phase Angle error 0.1 minute to Ratio error 3%Phase angle error 180 minute |
| 4 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | High voltage power frequency test on secondary winding | IEC 61869-1: 2007 | 1 kV to 5 kV |
| 5 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Instrument security factor | IEC 61869-2: 2012 | 0.1 to 10 |
| 6 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Measurement of capacitance and Tan delta | IEC 61869-1: 2007 | 100 pF to 2000 pF (Capacitance) Tan delta: 0.001 to 0.15 |
| 7 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Measurement of knee point voltage | IEC 61869-2: 2012 | 0.2mA, 1V to 1000 mA, 7 kV |



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| 8 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (upto 400kV) | Measurement of secondary winding resistance | IEC 61869-2: 2012 | 0.1 Ohm to 100 Ohm |
| 9 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Over-Voltage inter-turn test | IEC 61869-2: 2012 | 1 V to 5 kV |
| 10 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Partial discharge measurement | IEC 61869-1: 2007 | 1 pC to 100 pC |
| 11 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Temperature coefficient test | IEEMA-22-8b: 2005 | 100 pF to 2000 pF (Capacitance) Tan delta: 0.001 to 0.15 |
| 12 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Temperature rise test | IEC 61869-1:2007, IEC 61869-2: 2012 | 1 °C to 100 °C |
| 13 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Thermal stability test | IEEMA-22-8a: 2005 | 100 pF to 2000 pF (Capacitance) Tan delta: 0.001 to 0.15 |
| 14 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer (Upto 400kV) | Verification of terminal marking | IEC 61869-1: 2007 | Qualitative |



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| 15 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Current Transformer(upto 400kV) | High voltage power frequency test on primary winding | IEC 61869-1: 2009 | 1 kV to 700 kV |