



The National Small Industries Corporation Ltd. Testing Laboratory

Electrical, Mechanical and Chemical Labs are accredited by
NABLs per IS/ISO/IEC 17025 : 2017 (vide TC-5137)

Major Testing Facilities

- Lightning Impulse Voltage and High Voltage (Dry/ Wet)
- Millivolt Drop and Temperature Rise test
- Heating Cycle test for fittings, Electrical Aging test for IPC
- DC Resistance test of Conductors, contacts etc.
- Electromechanical & Mechanical load test for Insulators
- Mechanical Endurance test of Circuit Breaker
- Ratio and phase angle error test of CT, PT
- Thermal Mechanical Performance test of Insulators
- Tensile, Compressive strength, Residual Strength of Insulators
- Stress-Strain Analysis of Conductors
- Ultrasonic and Magnetic Particle test
- Izod / Charpy Impact test and Hardness test
- Chem. composition - Ferrous / non-ferrous (spectrometer)
- Galvanizing - Uniformity, mass of coating
- Brittle Fracture Resistance, Assembled Core Load Time, Damage Limit Proof, Water Diffusion, Dye Penetration test of Composite Insulator etc.

Product group tested at our Testing Laboratory

- Ceramic/ Glass / Polymer Insulators,
- HV Switch / Isolators / Fuses/ Panels (LT/HT) etc.
- Current Transformer/ Potential Transformer,
- Hardware Fittings, Insulation Piercing Connectors etc.
- Earth Wires, AAC/ ACSR / AAAC Conductors and others
- Chain-pulley block/ Hook / Coupling /Rope
- Stay/Barbed Wires/ Tube/Sheet/Strips/Rod /TMT Bars
- Construction materials (Paver Block, concrete block/cube, bricks)
- Mines equipment etc.

Major Testing Equipment

- HV Impulse Set 400 kVp
- HV Set 300 kVrms/ 100 kVrms /50 kVrms
- 1000 kN Horizontal Tensile Testing Machine(12 mtr Bed)
- 500 kN and 30 kN UTM, 2000kN Compression Testing Machine
- 1-Ph, 2000 A and 3- Ph 4000 A Temperature rise test set.
- Circuit Breaker Analyzer cum Mechanical Endurance Test set
- CT Analyzer and PT Analyzer
- Thermal Mechanical Performance Test Set
- Dig. Micro ohm meters, Dig. Temp. Recorders.
- Porosity Machine (400kg/cm²).
- Impact Testing Machine, Hardness Testing Machine.
- Ultrasonic & Magnetic Particle Testing Machine,
- Coating Thickness Gauge
- Spectrometer for Chemical Analysis



For details, contact at :
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