

ELECTRIC DIAGNOSTIC ON WHEELS



Diagnostic section of ERDA undertakes expert services for diagnostic testing of various HT equipment at Power & Process Plant. It benefits the power sector with a special focus on Generation (Government and Private) and Transmission Companies. ERDA undertakes complete diagnostic portfolio through dedicated mobile diagnostic testing van across India.

Power Transformer

- RLA study
- Capacitance & tan testing of winding insulation and bushing
- Sweep frequency response analysis
- Dielectric response analysis (DIRANA) of transformer winding insulation
- Partial discharge detection using Acoustic Emission Technique
- Various routine electric tests

Rotating Machine

- Stator insulation tests (Capacitance/tan delta, IR/PI)
- Rotor monitoring (RSO & impedance test)
- Stator core monitoring by ELCID (Electromagnetic core imperfection detection) test
- Online monitoring with the current signature analysis

Switchyard Equipment

- Online PD survey of switchyard equipment by RFI & NL acoustic camera method
- Capacitance and tan delta of CT/CVT
- Third harmonic resistive leakage current measurement of lightning arrestor

Cables

- VLF (Very low frequency) testing of cables up to 22 kV of rating as per IEEE 400.1 & 400.2
- DAC (Damped AC) testing of cables up to 60 kV as per IEEE 400.4
- LIRA (Line impedance resonance analysis) of HT & LT cables