



50 YEARS OF SERVICE



EXPERIENCE THE EXCELLENCE



ERDA's Advanced Solar Cable Testing Laboratory for Reliable Energy Transmission

As solar energy powers the future, reliable solar cables are essential for safe and efficient energy transmission. ERDA's advanced laboratory ensures superior quality, durability, and long-term performance of solar cables.

Cable Covered

Electric cables for photovoltaic systems up to 1.5 kV DC

Facility Consists of

- DC Voltage Panel: 0.004 kV- 2 kV
- Digital High Resistance Meter: 10^{15} ohms, 1000 V
- Ozone Chamber & Analyzer: up to 1000 ppm
- Environmental Chamber: 90°C + 85% RH (1000 hrs)
- Profile Projector: 5 micron accuracy
- Fluorine Content Test Facility
- Water Bath: Ambient to 90°C

Testing Capabilities

- AC/DC Voltage Test on Completed Cable
- Surface Resistance of Sheath
- Long-Term DC Insulation Resistance
- Ozone Resistance Test
- Thermal Endurance Test
- Damp Heat Test

Applicable Standards

IEC 62930:2017

BS EN 50618:2014

IS 17293:2020

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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