



ELECTRICAL TESTING LABORATORY

Electrical Testing Laboratory is having the facilities to cater major electrical motor testing and electrical material testing. Regulated power supply, single phase and Three Phase, Uninterrupted power supply, Separate 50Hz and 60 Hz electrical power source, Eddy current and Magnetic powder Dynamometer, DC Drives, Precision power measurement, Variable Frequency drives.

Compendium of test facilities

Load test, Temperature rise test, Environmental Testing for electrical and electronic items, ingress of protection Provided by enclosures.

Electrical Motor Testing

- ❖ A.C Electric Motors (Voltage upto 600 Volts, Frequency 50Hz-60 Hz, Output 60 HP (In House), Torque 500 NM.
- ❖ D.C Electric Motors
- ❖ Small Universal Motors
- ❖ Domestic and Agricultural Pumpsets upto 60 HP (In-House)
- ❖ As per Indian Standards, International Standards, RDSO Specs, Customer requirements.
- ❖ Electrical Vehicle Motors
- ❖ VFD Drive Motor, Pumpsets
- ❖ Solar Photovoltaic Pumpsets

Electrical Appliances, Material Testing & Others

Winding Wires, Insulated Cables, Electrical Appliances - Wet Grinder, Mixie, Iron Box, Electric Fan, Immersion Water heaters, Energy meters, MCB's Electrical wind screen wipers for Automobile Vehicles, UPS, Inverters, Auto transformers, Stabilizers, Power savers, Aviation Lamps, Electrical Grade rubber mats, Stampings - Watt Loss, Fibreglass Sleeves. Fibreglass cables, Rubber cables, Polyester film paper, Push button switches, Electric Blowers, Centrifugal Fans, Ventilating Fans, Compressors, Gear Boxes with electric drives, Starters, Relays, Contactors, Transformers, Thermal Overload Protector (T.O.P), Capacitor etc.,

Environmental Testing for electrical and electronic items

Salt mist test, Dry Heat test, Cold test, Damp heat test, Dust test, Drip proof

Tests as per International Standards

IEC60034, IEC 60335 - I IEC 60335 - 2, IEC - 60529, IEEE112, C390-98, IEC 62253.

Accreditation and Recognition

Sitarc Electrical Testing Laboratory is accredited by NABL (National Accreditation Board for testing and calibration Laboratories, Department of Science and Technology, India in accordance with standards ISO / IEC 17025:2017 for its facilities in the field of ELECTRICAL TESTING.

Si'Tarc Electrical Testing Laboratory is recognized by Bureau of Indian Standards as OUTSIDE RECOGNISED LAB (Code No. 6104904)



Electrical Motor Pumpset Testing

- IS 325 – Three Phase Induction Motors
- IS 996 – Specification for Single Phase Small AC and Universal Electric Motors
- IS 996 – Single Phase a.c. Induction Motors for General Purpose
- IS 2972 – Specification for TEXTILE MOTORS
- IS 7538 – Three Phase Squirrel cage Induction Motors for Centrifugal Pumps for Agricultural Application
- IS 8034 – Submersible Pumpsets
- IS 8472 – Centrifugal Regenerative Pumps for Clear, Cold water
- IS 9079 – Monoset Pumps for Clear, Cold water for Agricultural and Water supply Purposes
- IS 9283 – Motors for Submersible Pumpsets
- IS 12225 – Centrifugal Jet Pump
- IS 14220 – Openwell Submersible Pumpsets
- IS 14582 – Single Phase Small a.c. Electric Motors for Centrifugal Pumps for Agricultural Applications
- IS 17018 - Solar Photovoltaic Water Pumping Systems – Part 1 Centrifugal Pumps – Specifications

Electrical Material Testing

- IS 694 - Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables/Cords With Rigid and Flexible Conductor for Rated Voltages Up to and Including 1100V.
- IS 2993 – A.C. Motor Capacitor
- IS 1554 (Part-1) – Specification for PVC Insulated (Heavy Duty) Electric Cables – For working voltages Up to and Including 1100V
- IS 7098 (Part-1) – Specification for Cross – Link Polyethylene Insulated Thermoplastic Sheathed Cables – For working voltages Up to and Including 1100V

- IS 8783 - Winding Wires for Submersible Motors – Specification
- IS 13730 – Enamelled Winding wires
 - ✓ Round (Copper & Aluminium)
 - ✓ Rectangular (Enamelled & Paper Covered)
- IS 374 – Electric Ceiling type Fans - Specification

Environmental Testing

- IS 9000 – Part 2 - Basic Environmental testing procedures for Electronic and Electrical items Part II – COLD TEST
- IS 9000 – Part 3 - Basic Environmental testing procedures for Electronic and Electrical items Part III – DRY HEAT
- IS 9000 – Part 5 - Basic Environmental testing procedures for Electronic and Electrical items Part V – DAMP HEAT
- IS 9000 – Part 6 - Basic Environmental testing procedures for Electronic and Electrical items Part VI – COMPOSITE TEMPERATURE / HUMIDITY CYCLIC TEST

Salt Mist Test

- IS 9000 – Part XI - Basic Environmental testing procedures for Electronic and Electrical items Part V – SALT MIST TEST
- ASTM B 117 – Standard Practice for Operating Salt Spray (Fog).

Ingress of Protection

- IEC 60034-5 - Rotating electrical machines : Part 5 Degrees of protection provided by the integral design of rotating electrical machines (IP CODE) - Classification
- IEC 60529 – Degrees of protection provided by Enclosures (IP Code).

Appliance Safety Tests

- IS 302 - Safety of household and similar electrical appliances Part-1 General requirements

For more Details Contact:

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