SCR ELEKTRONIKS

SALES PRESENTATION ON

# MATERIAL TESTING EQUIPMENTS










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# *LIST OF TEST EQUIPMENT*

1. GLOW WIRE TESTER
2. COMPARATIVR TRACKING INDEX TESTER
3. DRY ARC RESISTANCE TESTER
4. IMPULSE WITHSTAND TESTER
5. NEEDLE FLAME
6. HIGH VOLTAGE TESTER
7. HOT WIRE IGNITION TESTER
8. HOT WIRE IGNITION TESTER
9. ARC IGNITION TESTER
10. EARTH CONTACT RESISTANCE TESTER

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# 1. GLOW WIRE TESTER

- **What It Is?**
  - Table top model to verify flammability characteristics of moulds and insulators
  - IEC 60695-2-10 (1980)

- **Models Available :**
  - **Automatic Version** – motorized movement of test specimen with automatic current control on contact with the heating loop (most popular model – less costly than pc based version)
  - **Pc Based** - the above automated version with complete pc control and data logging + user management

# Salient Features :

- Nickel / Chromium based heating element (glow wire)
- Cr/Al based fine wire based thermocouple for temperature sensing
- Temperature Range - Adjustable up to 960° centigrade
- A motorized sliding carrier with an universally adjusted SS perforated tray is provided to mount the specimen
- Self adjusting constant current mode operation as soon as heater-specimen contact is established
- Motor brings the jig back to the pre-test position automatically as soon as the test is concluded
- Time Controller - Micro-controller based programmable timer 0 to 999secPrecision scale: Precision scale is provided to measure the height of the flame
- Safety – Emergency Switch, MCB, Fuses
- Entire panel hoisted in aluminium sections for better aesthetics
- Fully Automated Panel

# Key Benefits :

- Unique Benefits That Make Testing Reliable And Compliant :
  - Constant current mode (available only in automatic variants – the point of operation shifts from constant temperature mode to constant current mode once the loop touches the specimen)
  - Motor + weight arrangement – ensures 10 n force (thus, once loop – specimen contact takes place, the only force on the specimen stand (specimen) is that of a fixed weight

- Available Only In Pc Based Variant :
  - All the key benefits stated above
  - Plus, pc software for control and data logging with a few software features such as:
    - User hierarchy
    - Diagnostic and debug mode
    - Reports exportable to excel format
    - Calibration mode

# Basic Specifications :

- **Temperature Sensor** – Thermocouple: Fine wire of Cr/Al of 0.5 mm diameter located in 0.6 mm diameter pocket hole in temperature sheath resistant to 1000 degree centigrade
- In the model GWT A2, current is held approximately constant (15 % swing) once the heating element touches the specimen.
- **Heating Element** – Glow Wire: Nickel / Chromium (Ni/Cr-80:20%) wire of 4mm diameter with a shape as per the standard
- **Time Controller** - Micro-controller based programmable timer 0 to 999 sec
  - The total test time can be programmed through keyboard
  - The ignition time and extinguish time of flame can be registered in timer
  - The stored time values can be viewed after the end of test
  - Setting on PC for PC based variant
- **Penetration Depth** - Mechanically restricted to 7 mm
- **Specimen size** - 180 x 150 Sq.mm max. & 15 x 15 Sq. mm min., Thickness 10mm to 80 mm.
- Test specimen contact force against the glow wire is preloaded to 0.8 to 1.2N
- **Test Chamber Dimensions** – (Available only with automatic variants)
  - Dimensions – 600 mm W x 300 mm D x 610 mm H. (approx.)
- **Supply Voltage** – 230 V AC, 50 Hz, 1 Phase, 500 VA

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# Key Photos :


Automatic Glow Wire Tester

Automatic Glow Wire With PC Based Data Logging and Test Chamber

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# 2. COMPARATIVR TRACKING INDEX TESTER

- **What It Is?**
  - The Comparative Tracking Index Tester is designed to determine the resistance to tracking in insulating parts supporting live parts used for electrical accessories such as MCBs, switches, sockets, plugs, etc.
  - This test is specified in IEC 60112 2003-01, IEC 60335, IS 2824, IEC 60112, DIN 53480 and many other standards.

- **Models Available :**
  - **Non PC Based** – State of the art equipment with inbuilt variable high voltage source, pre-settable drop volume, number of drops, drop interval and an indigenously developed opto-proximity sensor
  - **PC Based** - The above mentioned version with complete PC Control and Data Logging + User Management.

# Salient Features :

- Built in electrolyte container with pump, producing drops of 20 + 3 mm3 volume at precise interval of 30 seconds. The drop falling height is adjustable to 35 mm.
- Priming facility for the pump to enable removal of initial electrolyte having higher concentration.
- Fully automatic unit with minimum of controls & adjustments.
- Micro-controller based timer control unit used to set the timings and to control the sequence of operations.
- Pre-set load on the electrodes with a force of 1.0 N each.
- Short circuit release – 0.5 A for 2 sec; Short circuit current limited to 1 A.
- Electrode Voltage Settings – 0 to 230V, 0 to 350V, 0 to 450V, 0 to 550V, 0 to 650V adjustable.
- Current limiting resistances automatically selected with test voltage.
- Adjustable platform with glass top for Placing the sample.
- Clear acrylic front cover for safety and a draught free surrounding.
- Cover open interlock switch for safety.
- Exhaust fans for removal of fumes.

# Key Benefits :

- Unique Benefits That Make Testing Reliable:
  - Micro controller based operation enables pre-configurable settings on a user friendly touch-pad
  - Totally stand alone operation with automatic cut-off facility after the test is passed or short circuit is detected
  - User-safety is ensured by mechanical interlocking of the test chamber
  - Modular design makes the tester maintenance friendly

- Available In Pc Based Variant:
  - All the key benefits stated above
  - Plus, pc software for control and data logging with a few software features such as:
    - User hierarchy with password control
    - Automatic Operation
    - Automatic data saving
    - Diagnostic and debug mode
    - Reports exportable to excel format
    - Calibration mode

# Basic Specifications :

- **Test Voltage :** 100 to 600V (or 1200 V) AC
- **Short Circuit Current** :1 A
- **Trip Current :** 0.5 A, Adjustable
- **Voltage Indication :** 1/ 8 DIN, 3 Digit Voltmeter, 0 to 750 V
- **Dropping Unit :** Automatic by special positive displacement pump
- **Dropping Interval :** 30 +/-, Seconds
- **Drop Volume :** 20, (-0/=5) MM Cube
- **Drop Number Indication :** Pre-set digital Counter, 0 to 999 drops.
- **Dropping Height :** Err:510
- **Electrolyte** 0.1% Nh4CL (Ammonium Chloride) in distilled water
- **Load On Each Electrode :** 1.0 Newton
- **Electrode :** Brass (Option = Platinum)
- **Max. Fuse Rating :** 3A Rapid, 20*5 mm Glass Cartridges
- **Weight :** 22Kgs. Approx. (total)
- **Dimensions (W*H*D) :** 450mm*280mm*400mm Electrical Control Panel. 450mm*235mm*200mm, Test Chamber - Approximate
- **Input Voltage Specification :** 230V /110V/ 100V ; 50 Hz, 60 Hz – As per Customer’s Specification

- **Key Photos :**


Non PC Based Comparative Tracking Index Tester


PC Based Comparative Tracking Index Tester

# 3. DRY ARC RESISTANCE TESTER

- **What It Is?**
  - Dry Arc Resistance Tester is designed to conduct high voltage, low current Arc Resistance test on solid electrical insulation material as per:

    **1)** ASTM standard D495-99 (2004)- "Standard Test method for High – Voltage / Low - Current, Dry Arc Resistance of solid Electrical Insulation" and

    **2)** UL 746A " Testing For electrical properties." This product is meant for all insulator/ polymer/ electro plastic manufacturers and appliance manufacturers that use insulators in their products.

- **Models Available :**
  - Microcontroller based Dry Arc Resistance Tester is designed to conduct high voltage, low current Arc Resistance test on solid electrical insulation material.
  - **PC Based** - The above mentioned version with complete PC Control and Data Logging + User Management.

## Why Arc Resistance Test?

- Many Cases of insulator failure are due to deterioration of its surface because of sustained electrical discharge or Arc.
- This test method is intended to test the resistance of insulating material when a high - Voltage low -current Arc close to the surface of insulation, intending to form a conducting path therein or in causing the material to become conducting due to decomposition and erosion.

## Advantages :

- This Test ensures that your products meet high standards of quality & safety.
- This product is meant for all Switchgears/ insulator/ Polymer/ electro plastic manufacturers and manufacturers who use insulators in their products e.g. Wiring Accessories, Appliances, HT/LT line insulators etc.

# Salient Features :

- Dedicated PLC system for control of sequence and user friendly.
- Key Board with soft keys for entering the testing parameter.
- Test chamber with DOOR INTERLOCK System to protect user from direct contact of HIGH VOLTAGE.
- LCD Display to set test parameters / read test results.
- Exhaust fans in – built in the test chamber to remove fumes
- Adjustable test jig to hold different test samples of various dimensions
- Enclosure – Elegant design with Aluminum extruded profile.

# Basic Specifications :

- **Input Supply Voltage :** 230 V +/- 10 %
- **Test Voltage :** 0 – 12.5 kV adjustable (max 15 kV)
- **Dedicated PLC system** for control of sequence and user friendly
- **Weight:** Approximately 140 kg
- **Approximate Dimensions:** 900 mm width, 600 mm depth, 700 mm height

# Key Photos :


Dry Arc Resistance Tester

# 4. IMPULSE WITHSTAND TESTER

- **What It Is ?**
  - Tester is designed to generate impulse voltage of 1.0 KV to 20 KV depending on the model chosen. The waveform generated has a rise time of 1.2 micro second and 50 micro second duration as defined in IEC 61180. The product conforms to the following list of standards:
  1. Low Voltage Switchgear and Control gear: IS/IEC 60947 -2004 Cl. No: 8.3.3.4.1
  2. Circuit Breakers: IS/IEC 60898:2002 Cl.no.: 9.7.6.1 & 97.6.2
  3. Residual Current Operated breakers: IEC 61008 & 61009 : Cl.no.: 9.20
  4. In addition, the test (commonly known as 1.2 / 50 uS test) is referred in a variety different standards.
- **Models Available :**
  - Entire operation is pre programmable thus it is automatic. Peak voltage adjustable from front panel.
  - The test sequence, time between two subsequent impulses can be programmed through PLC module. Results are displayed on LCD display. Output is provided on oscilloscope
  - An innovative portion is the specially designed legacy pneumatic switch which has an unique advantage over contactor: It prevents the bouncing of contactor contacts generating a relatively accurate wave-shape of a very short duration.

# Salient Features :

- Programmable and fully automatic test sequence
- LCD Display for Indication of test parameters and result
- Programmable module with sequencing for setting of:
    1. Positive, Negative or both polarities
    2. No. of pulses for positive or Negative polarity
    3. Duration between two consecutive Impulses
- Selection of polarity: Automatic through PLC Unit
- Automatic flash over detection and cut-off circuit
- Digital display for flashing number of cycles with polarities for breakdown
- Voltage Indication: Digital Meter to indicate peak voltage
- Short Circuit / Overload protection with MCBs
- Housed in extruded Aluminium Sections for better aesthetics
- Output pin for output to oscilloscopes to view exact wave shape

- **Key Benefits :**

  - Unique Benefits That Make Testing Reliable:
    - PLC based operation enables pre-configurable settings thus automatic operation.
    - Modular design makes the tester maintenance friendly.
    - Specially designed legacy pneumatic switch which has an unique advantage over contactor.

# Basic Specifications :

- **Mains Supply :** 230 V AC, +/- 10% – 50Hz
- Impulse Voltage 1kV to 20 kV **adjustable with both polarities** (-1 kV to -20 kV) depending on the model chosen: 8 kV, 10 kV, 15 kV, 20 kV
- **Impulse Rise Time:** 1.2 micro sec. +/- 30%
- **Impulse Duration :** 50 micro sec. +/- 20%
- **Output for Oscilloscope:** Attenuated output 0 to 10 V for 0 to 10 kV and so forth depending on the model chosen (Linear Scale)
- **Air Supply** – Pressure – 5 Kg (Approximate)

# Key Photos :

Fig. Impulse Tester 15kV


Fig. Impulse Tester 10-12V

# 5. NEEDLE FLAME

- **What It Is?**
  - As per IEC 60695-11-5 Needle Flame Test Apparatus is designed to carry out fire hazard testing.
  - Flammability test is to check the 'Resistance to Fire' of electrical insulators that touch directly conducting parts & also parts of insulators.
  - Testing with regard to fire hazards can be done by creating exactly the conditions occurring in practice.
- **Models Available :**
  - The product is available in PC based or non PC based mode.

## Salient Features :

- 16 * 2 LCD Display for User interface.
- Membrane keys for settings.
- Programmable Total test time.
- Temperature indicator for continuous monitoring and displaying sensor Temperature.
- Lamps to indicate Flame position
- TEST OVER indication with Alarm at the end of the tests.

## Key Benefits :

- We test our apparatus with regard to fire hazards by creating exactly the same conditions occurring in practice.

# Basic Specifications :

- PLC to control the sequence of operation and display the Test Results.
- Ball Screw Type sliding mechanism for vertical and horizontal movement.
- Enclosure with 0.5 cubic meter internal volume.
- Bunsen's Burner with 9 to 10 mm diameter with regulator and needle flame diameter 0.5.
- Test time for temperature to increase from 100° C +/- 5° C to 700° C +/- will be 23.5+/- 1 s.
- Test time in second.
- Draught Free Condition.
- Observation of test from outside of mirror.
- Chamber from inside should be dark.
- Exhaust to remove product of combustion.
- Timing device tolerance not more than 0.5s.

- **Key Photos** :


Needle Flame Test Apparatus

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# 6. HIGH VOLTAGE TESTER

- **What It Is?**
  - Generate High Voltage across the Output terminal and measure the Leakage current flowing across the Earth Terminal.
- **Models Available :**
  - **Manual & Automatic Mode :** Adjustable High Voltage min up to 100kV AC max and up to 50kV DC max (customised) across the Output terminal. The design is simple and the main components are Auto Transformer, Current Transformer, Micro Switch and HV transformer.
  - **PC Based :** the above automated version with complete pc control and data logging + user management

# Why High Voltage Test ?

- Every electrical apparatus or machine consists of two distinct sections - one which carries the electricity, and other which is isolated (insulated) from the electric currents. The former may be called the `Live' side whiles the latter `Earth' side.
- A person near about the apparatus or handling it can safely touch the Earth side, but not the live side, for obvious reasons. To ensure that the isolation of the two sections is effected properly, the apparatus is tested by subjecting it to a Voltage much higher than the normal working Voltage.
- If the insulation is good, it stands the test without breakdown otherwise high electrical stress punctures the insulation at its weakest spot foretelling a later calamity to unwary user.
- Government Department- when buying electrical equipments- and all reputable manufacturers test every piece of equipment by this test called HIGH VOLTAGE TEST. It weeds out poorly insulate apparatus.

- **Salient Features :**

  - Modes: Manual, Auto, Programmable
  - Types: Both AC and DC Dielectric Strength Testers available
  - Special Models: Combination (AC+DC) High Voltage Testers available
  - Specially Designed probes provided for user safety
  - Safety factors: Zero Interlock
  - Speciality Transformer Type: Epoxy cast HV Transformer for user safety
  - Accurate and Quick Cut Off System: Promptly designed feedback control system to switch off the HV supply as soon as breakdown takes place
  - Indigenously designed Digital Ammeter and Voltmeter, Programmable Timer
  - Ramp Up / Ramp Down Voltage and Current Adjustable as an extra accessory
  - Range of leakage current for tripping threshold up to 1000 – 2000 mA: Ideal for capacitive circuit breakdowns such as an insulation of inductive motor
  - Quick and Easy Selection of leakage current threshold value
  - Prominently featuring indication lamps and buzzers for indicating results of test

# Key Benefits :

- Customized product ranging up to 100kV for AC and up to 50kV for DC.
- Combination of AC+DC also available.
- Zero interlock and specially designed probe & transformer for customer safety.

- Available Only In Pc Based Variant :
  - All the key benefits stated above
  - Plus, pc software for control and data logging with a few software features such as:
    - User hierarchy
    - Diagnostic and debug mode
    - Reports exportable to excel format
    - Calibration mode

# Basic Specifications :

- **Voltage :** 0 – 100 kV. (Typically for bigger applications, large HV testers of upto 100 kV are successfully built)
- **Current :** 0 – 5, 10, 25, 50, 100, 200mAmps.
- **Time Setting :** 0 to 60 Sec.
- **Safety Factors :** a) Zero Interlocks.
  b) Shrouded type Push Button for H.T. ON.
  c) H.V. Transformer heavy duty epoxy cast.
- **Indications :** a) High Voltage and leakage current on separate meters.
  b) Separate lamp indication for H.T. ON, OK, NOT OK
- With Timer and “OK”, “NOT OK” indications.

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- **Key Photos :**


Fig. HVT 5 kV


Fig. HVT 36kV


Fig. Programmable HVT 5kV

Fig. HVT 30kV

# 7. HV INCLINED PLANE AND EROSION TESTER

- **What It Is?**
  - SCR ELEKTRONIKS have developed HIGH VOLTAGE INCLINED PLANE AND EROSION TESTER to carry out test specified in many standard to cover test method for the evaluation of the relative tracking and erosion resistance of insulating solid using liquid contaminant (ASTM D2303).
  - Perform the Initial Tracking Voltage Test, Time to track Test, And Erosion Test as per selection.
- **Models Available :**
  - The product can be customized as per the number of stations: 1 and 5 stations.
  - Additionally, the product can be microcontroller based with each microcontroller controlling an individual station, or a PC based wherein the PC controls all the stations simultaneously and independently of each other.

# Salient Features :

- “Microcontroller based programmable logic controller” to carry out test sequence having 20 *4 LCD and membrane keypad for display of set test parameters and test status.
- Specially designed electrodes as per product under test.
- Lighting arrangement in test chamber.
- Facility to easily calibrate the system for voltage as well as time calibration.
- Seven segment LED display for voltage and current indication.

- **Key Benefits :**

  - The tester is used to test insulation testing of special purpose cables such as armoured cables.
  - It can also be used for conventional cables.
  - The tests covered are time to track method, initial tracking voltage test and erosion test

# Basic Specifications :

- **Input supply:** 1 phase 230 V AC, 50hz.
- **Output voltage:** Regulated 100 V to 7500 v AC programmable.
- **Series ballast selection:** 1 k, 10 k,20 k and 50k with link.
- **Tripping current setting:** 60 mA.
- **Electrode system:** Stainless still material.
- **Angle of inclination:** 45 deg.
- **Fixture arrangement:** Made for flat test specimen as well as for various size cables.
- **Liquid deliver capacity:** 0.075 ml/ min to 0.900 ml/ min ,programmable.
- **Test chamber:** UV protected Glass door with door interlock.
- **Enclosure:** built with aluminium profile and MS covers with powder coating.
- **Dimensions:** 110 cm X 110 cm X 70 cm (L X H X D)

- **Key Photos** :

High Voltage Inclined Plane And Erosion Tester

# 8. HOT WIRE IGNITION TESTER

- **What It Is?**
  - It is used to conduct the flammability test of the material as discussed in IS/IEC 60947-1:2004 Annexure M.
  - The HWI test indicates a materials resistance to ignition when exposed to abnormally high temperatures resulting from a component failure such as a conductor carrying far more than its rated current.
  - HWI performance is expressed as the mean number of seconds required to ignite a specimen when wrapped with an energized non-chrome resistive wire that dissipates a specified level of energy.
- **Models Available :**
  - The tester can be customized with respect to PC based or otherwise, but is generally procured with the manual option (without PC)

## Why Flammability Test?

- A material's ability to resist ignition from electrical sources is an important factor that must be considered in the selection and evaluation of a material for use in electrical equipment.

## Advantages:

- This test ensures that your product meet high standards of quality &safety.
- This product is meant for all switchgears/insulator/polymer/electro plastic manufacturers and manufacturers who use insulators in their products e.g. wiring accessories, appliances, etc.
- The tester is used to test flame susceptibility when a current is passed through a hot wire wrapped around the specimen

## Salient Features :

- Designed to comply with the requirements of UL 746A & IS/IEC 60695-11-10.
- Dedicated PLC system for control of sequence and user friendly.
- Keyboard with soft keys for entering the testing parameter

## Specifications:

- Continuously displays the voltage and wattage in test mode
- Supply voltage of 230 V +/- 10 % supply
- Enclosure – elegant design with aluminium extruded profile.

- **Key Photos** :


Hot Wire Ignition Tester

# 9. ARC IGNITION TESTER

- **What It Is?**
  - The product is designed to carry out Arc Ignition Test as per IS/IEC 60947-1 Clause 8.2.1.1.2 (material used for electrical products). The load is adjusted to get 32.5A at 0.5 power factor.
  - Included on control unit are Digital Voltmeter, Digital Ammeter, Digital Power Factor Meter and Micro Controller based programmable Sequence Timer with LCD display for display & setting.
  - The arrangement is made to mount the test piece with electrodes as per the specification given in the standard.
- **Models Available :**
  - The product is available in PC based and non PC based mode

- **Key Benefits:**

  - The product tests the susceptibility of the insulator to high current arcing.
  - Once the test is conducted, the UUT is subjected to more tests to asses the after effects of high current arcing

## Salient Features :

- Material of the products can be checked by continuous cycle of testing by passing high current through the materials
- Safety covers for the protection of user. Only when this cover is in place then only the panel would work
- Emergency Push Button provided: This push button when pressed would stop the test then and there itself.

## Specifications:

- Output 32.5 A at 230 V.
- Separate test mode and set mode

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# Key Photos :


Arc Ignition Tester

# 10. EARTH CONTACT RESISTANCE TESTER

- **What It Is?**
  - To ensure the safety of operator it is essential that the Earth path (connection) should offer minimum impedance to by pass short circuit Current to Earth.
  - This is ensured by measuring Resistance of the Earth path by passing heavy Current say 25 A.
- **Models Available :**
  - The test bench can be customized as per the constant current value that is passed thrugh the earthing circuit, but usually the tester is procured with 30 A capacity

# Salient Features :

- AC Variable Current Source 0 to 30A AC @10V.
- Digital Ammeter 0 to 30.0A True RMS – 1 No.
- Digital mV /Ohm Meter with following range :

  a) For mV – 0 to 200mV/2V range.

  b) For Resistance 0 to 1.999 Ohms.
- The resistance will calibrated at 25A AC current.
- Output – On binding post type terminals 4 Wire measurement system.
- Two terminal for current & Two terminal for measurement of mV drop.

  a) Mains ON/OFF switch

  b) mV/Resistanace range switch Range.
- Output ON/OFF with Push button & Relay.
- Built in Extruded Aluminium section with duly powder coated M.S. covers Table top Model.

# Key Benefits :

- The tester is used to measure the voltage drop of the earthling circuit at a constant current - thus assessing how well the product earth is 'bounded' to the system earthing

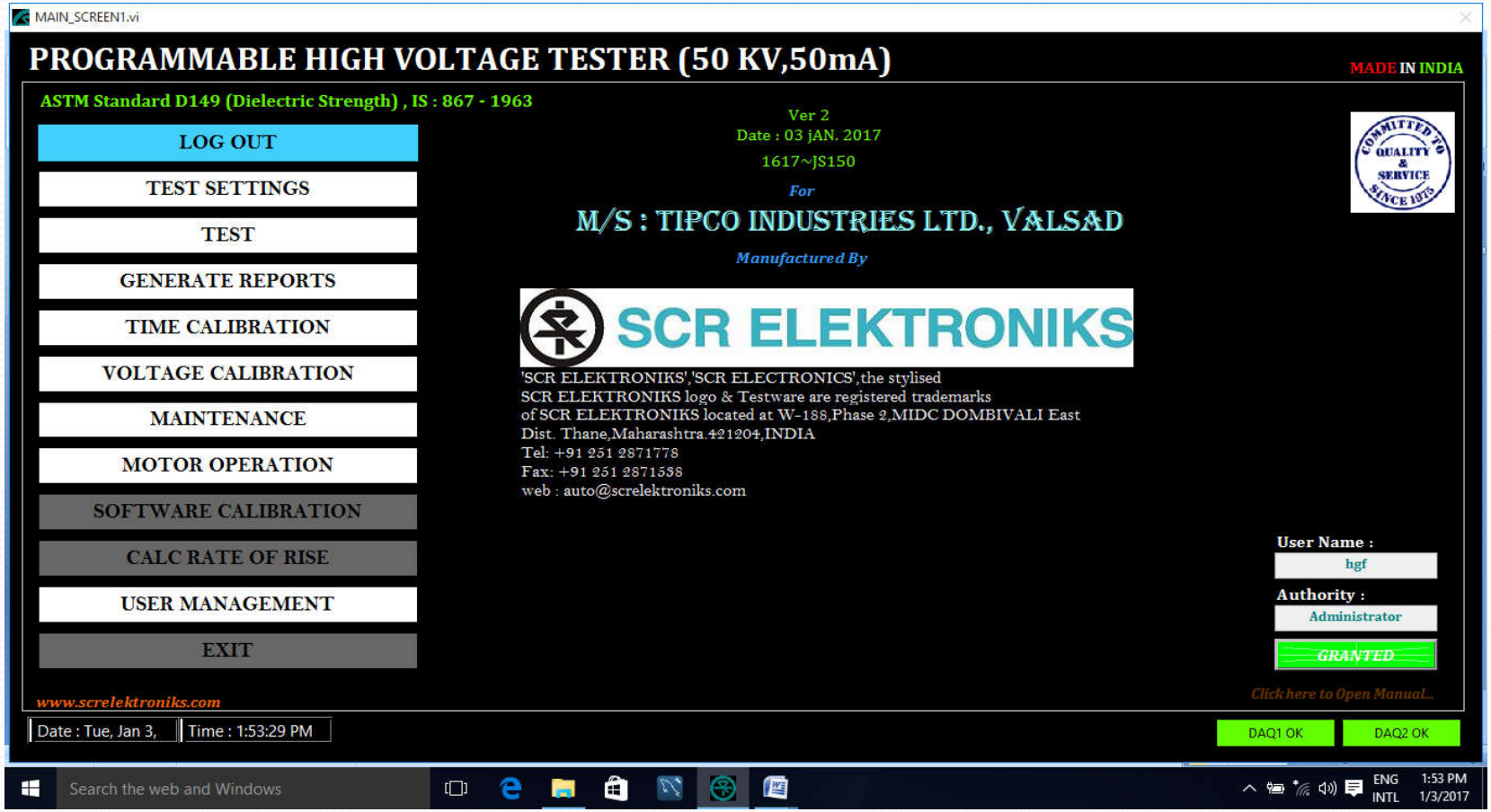
# Basic Specifications :

- Input supply 230 V +/ - 10% AC 50HZ.
- Current source : 0 to 30 A max.
- Test Voltage : 12 V max.
- Digital Display 3 1/2 digit for all measurable parameters (Ammeter, Voltmeter and Resistance - 0.001 Resolution for 1.999 Ohms range) at 25 A current.
- Voltage measurement: Two ranges namely 2 V, 20 V.
- Current Measurement: 0 to 30 Amps.
- Resistance Measurement: At 25 Amps. 0 to 1.999 Ohms.
- Separate Voltage and Current terminals.

- **Key Photos :**


Earth Contact Resistance Tester

# Software Screenshots :




Home Screen

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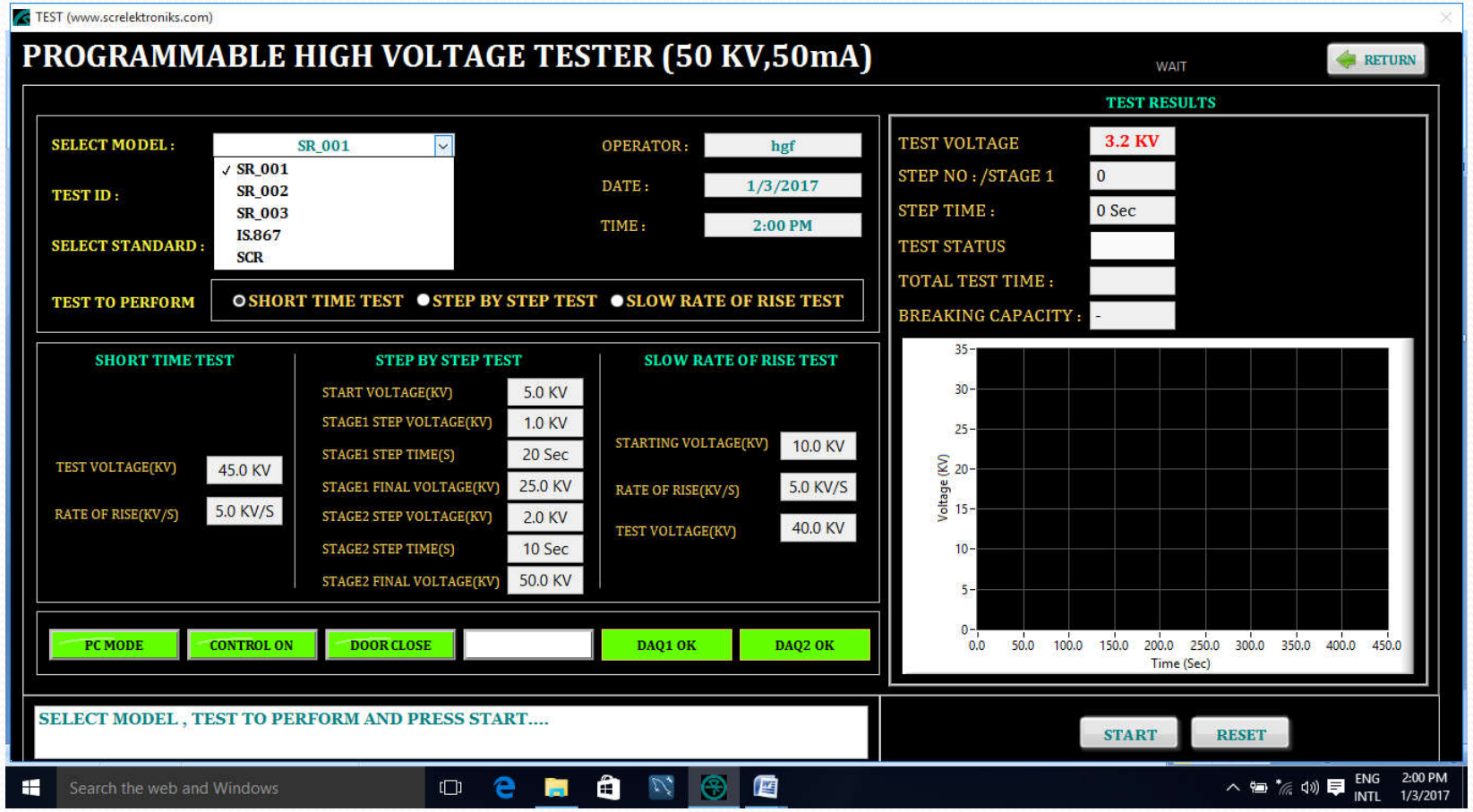
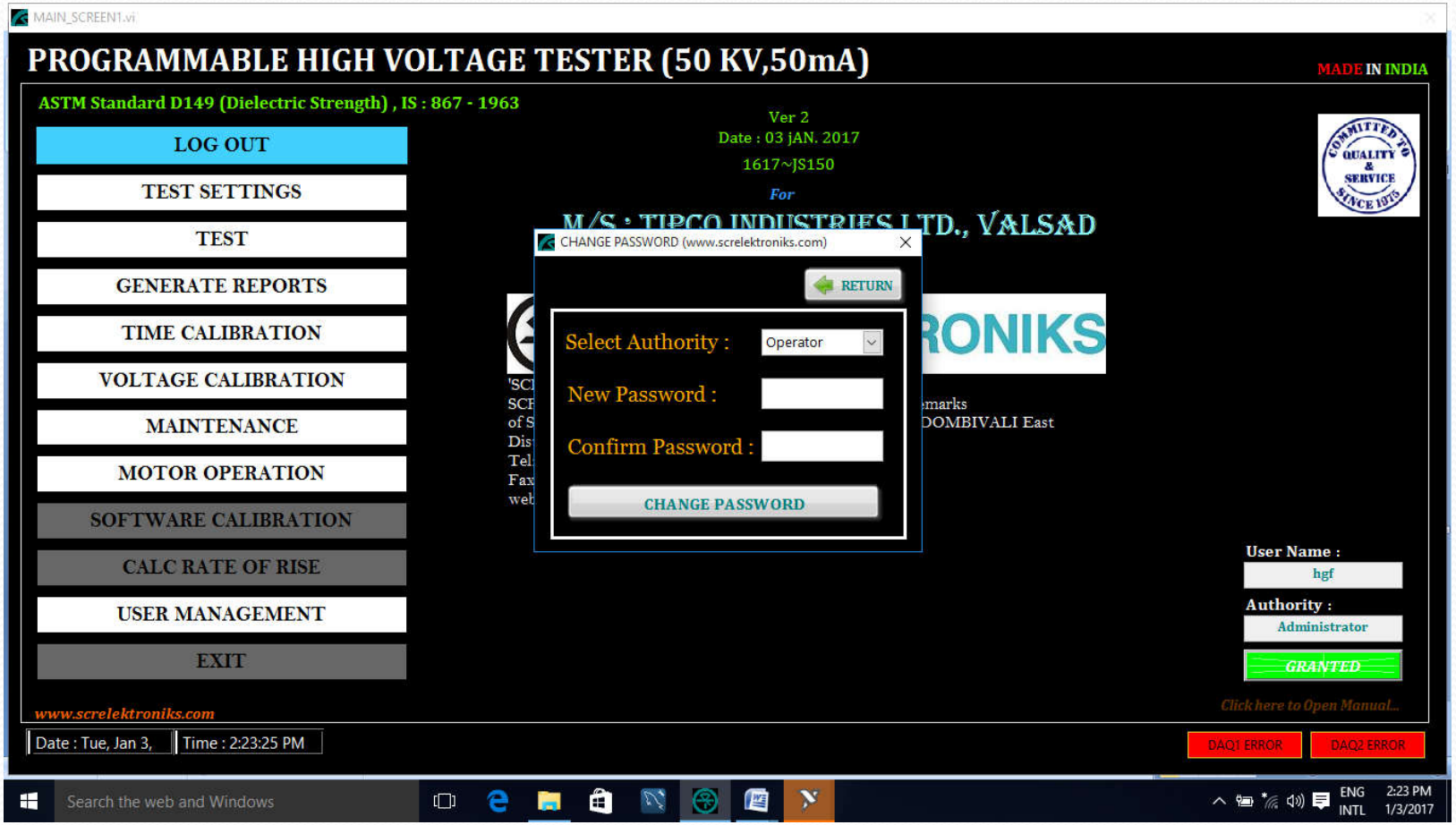
- **Software Screenshots :**




Test Screen

- **Software Screenshots :**




User Management Window

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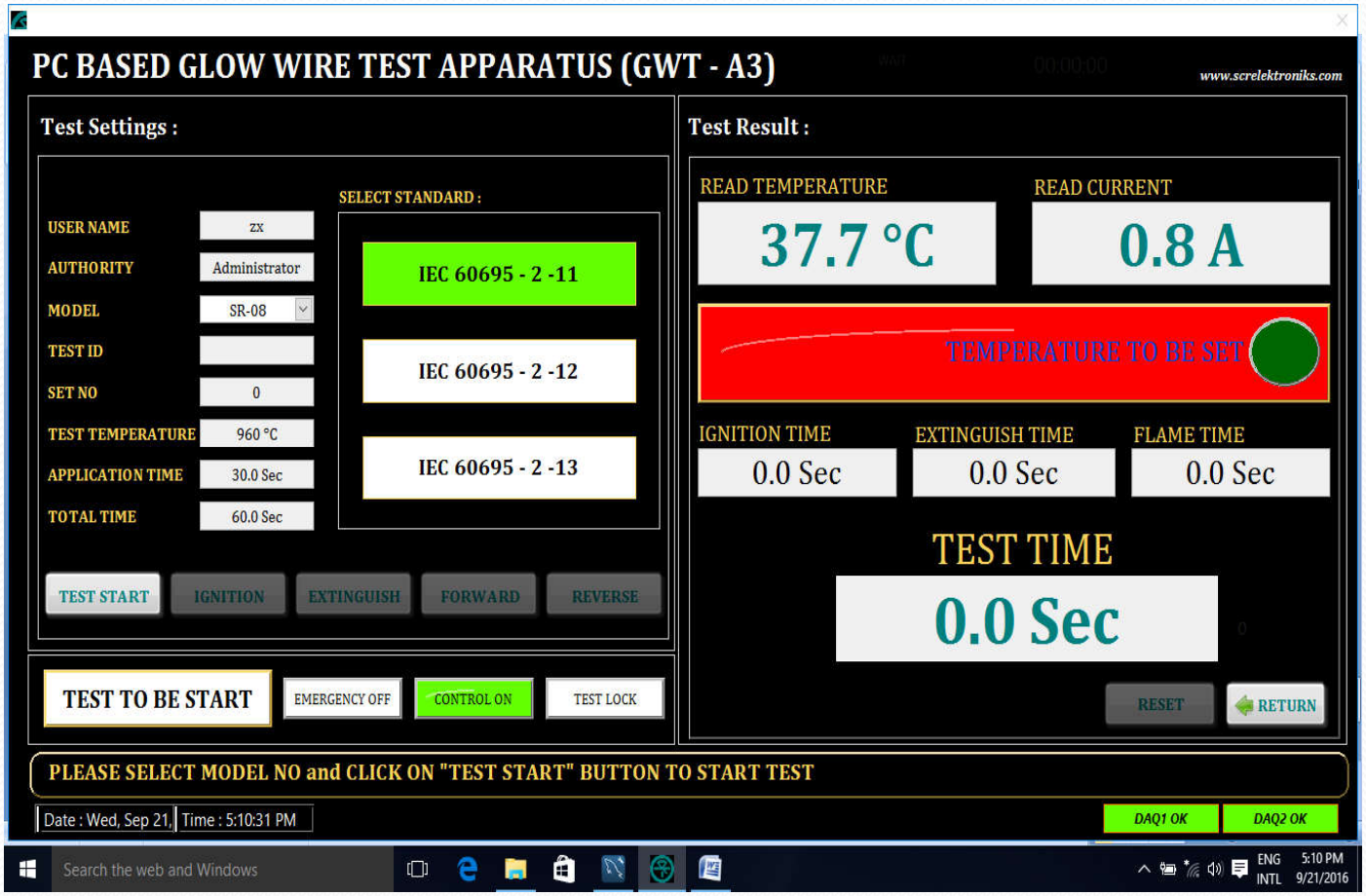
- **Software Screenshots :**




Test Settings Screen

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- **Software Screenshots :**


Calibration Window

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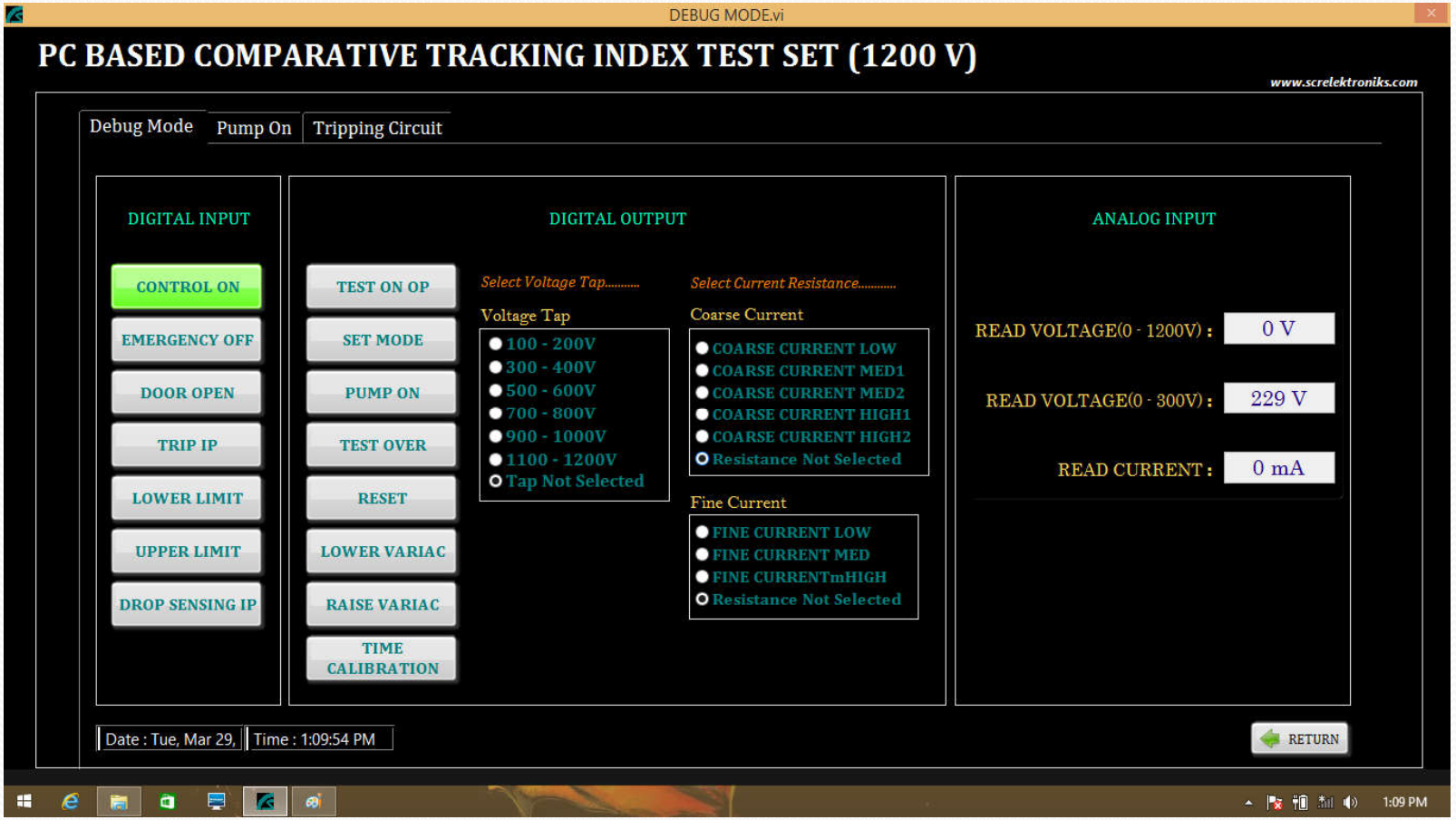
- **Software Screenshots :**


Calibration Window

- **Software Screenshots :**




Debug Window

# Documentation That Will Be Provided With Product :

- Layout (dimensions, etc.)
- Metering and PCB termination diagram
- Power wiring diagram
- Control wiring diagram
- User manual
- Data acquisition module details (for PC based variants)
- Signed warranty certificate
- Calibration certificates (NABL optional)

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# Why SCR Elektroniks ?

- Since 1975: Rich Experience In Test And Measurement
- Customized Solution
- Dedicated After Sales Support Team
- Designed More Than 100 Different Products
- In- House Team Of Micro-controller Design, Electrical And Electronic Design, Micro Controller Development, LabVIEW (PC) Software And PLC Logic, Production, Testing And Commissioning And Support
- In-house Development Of Critical Electronic And Electrical Meters, Modules And Components
- ISO 9001 : 2015 Certified By Bureau Veritas – Maintaining High Quality In Our Internal Process
- Listed By IEC In The Past
- Fair And Consistent Pricing
- Our Ultimate Prize: Customer Delight

# Clients Of Material Testing Equipment's :

| Sr. No. | Customer Name | Destination |
|---|---|---|
| 1 | M/s. Larsen & Toubro Ltd. | Faridabad, Powai, Ahmednagar |
| 2 | M/s. ICL Certifications Ltd. | Chandigarh |
| 3 | M/s. Hitein Bushings Pvt. Ltd. | Pune |
| 4 | M/s. Wipro Limited | H.P. |
| 5 | M/s. Amity Thermosets (P) Ltd.<br>(Partially modified with our system) | Gujrat |
| 6 | M/s. Nemko GmbH & Co. KG | Germany |
| 7 | M/s. Baltic Project Group Ltd | Latvia |
| 8 | M/s. CRIQ MONTREAL | CANADA |
| 9 | M/s. SC D&D SAFE SRL company | ROMANIA |
| 10 | M/s. Philips Electronics India Limited | Noida |

| | | |
|---|---|---|
| 11 | M/s. Indo Asian Electric Pvt. Ltd. | Haridwar |
| 12 | M/s. Insule Products | Lonawala |
| 13 | M/s. Brakers India Limited | Nanjagud |
| 14 | M/s. Crompton Greaves Limited | Kanjur Marg |
| 15 | M/s. SRF Limited | Chennai |
| 16 | M/s. Electrocoating & Insulation Technologies Pvt. Ltd. | Pune |
| 17 | M/s. Volco Industries | Baroda |
| 18 | M/s. HPL Electric & Power Pvt. Ltd | Solan |
| 19 | M/s. Anchor Electricals Pvt. Ltd. | Nani Daman, Haridwar |
| 20 | M/s. Powercam Electricals (P) Ltd. | New Delhi |
| 21 | M/s. Institute for Design Of Electrical Measuring Instrument (IDEMI) | Mumbai |
| 22 | M/s. Om Industries | Palghar |
| 23 | M/s. Tri Specturm Ltd. | Riyadh |
| 24 | M/s. Isovolta (I) Pvt. Ltd. | Nashik |
| 25 | M/s. DVGW Research Centre | Germany |
| 26 | M/s. L & T – MHI Turbine Generators Pvt. Ltd | Gujarat |
| 27 | M/s. Schneider Electric India Pvt. Ltd | Bangalore |
| 28 | M/s. 3M India Limited | Bangalore |
| 29 | M/s. Al-Motawast Factory | Riyadh |
| 30 | M/s. Classic Instrumentation Pvt. Ltd | New Delhi |

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| **31** | M/s. Teknic Electromeconics Pvt. Ltd | Bangalore |
| **32** | M/s. Grasim Industries Limited | Taloja |
| **33** | M/s. Tata Autocomp Systems Ltd | Pune |
| **34** | M/s. Ahmedabad Textile Industry Research Association | Ahmedabad |
| **35** | M/s. World Electronics Co. Ltd | Kenya |
| **36** | M/s. Parmali Wallace Private Limited | Bhopal |
| **37** | M/s. Formulated Polymers Limited | Chennai |
| **38** | M/s. Yadav Measurement Pvt. Ltd. | Udaipur |
| **39** | M/s. Atul Ltd. | Valsad |
| **40** | M/s. CSA India Pvt. Ltd., | Bangalore |
| **41** | M/s. Tipco Industries Ltd. | Valsad |
| **42** | M/s. Next Polymers Ltd. | Silvassa |
| **43** | M/s. Electrical Research and Development Association | Vadodara |
| **44** | M/s. Fuba Printed Circuits Tunisie | Tunisie |
| **45** | Nemko India (Test Lab) Private Limited | Faridabad |
| **46** | Surendra Composites Pvt. Ltd. | Bhopal |
| **47** | Hi-Physix Laboratory India Pvt. Ltd. | Pune |

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# THANK YOU