



IEC TEST LABS LLP

(Electrical & Electronics Testing Laboratory)



NABL
ACCREDITED LABORATORY

Accredited by : NABL

**NATIONAL ACCREDITATION BOARD FOR
TESTING AND CALIBRATION LABORATORIES**

(A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

Recognized by : BIS

**BUREAU OF INDIAN STANDARDS
(THE NATIONAL STANDARDS BODY OF INDIA)**

ABOUT US

IEC TEST LABS LLP has been established with an objective to provide the best quality of testing services using well equipped infrastructure with the help of highly quality technical personnel.

The Laboratory is accredited by **NABL** (National Accreditation Board for Testing and Calibration Laboratories- A Constituent Board of Quality Council of India) & recognized by **BIS** (Bureau of Indian Standards -The National Standards Body of India).

It is one of the prominent service providers in the field of Testing Services. Our esteemed organization in a very short span of time have developed a strong cliental across all industries including the Govt. and Non Govt. organizations.

We offer the accurate, reliable, dependable, timely quality testing services in the field of Electrical, Electronics & IT Products etc.

With a team of skilled specialists **IEC LAB** is unique in offering quality and cost effective services to its clients; our highly knowledgeable and experience team of Scientists, Analyst and Engineers always strives to improve its current testing and quality control methodologies, acquiring advance skill set in their respective field by adopting more stringent quality control measures.

SPECIALITES

The quality of the products mainly depends on the quality of material and technology used. A high quality instruments / products need proper evaluation of its quality. This can be ensured only if they are calibrated or tested using reliable instruments / and reference standards. We at **IEC TEST LABS** precisely do that through our highly professional and motivated staff, using reliable, accurate and standard test and calibrated methods. We use high accuracy reference standards and testing instruments which are traceable to National / International Standards. In addition to this, there are several other advantages of availing our services.

We are the most ethical and trust worthy group of laboratories who provide reliable and accurate testing results.

- Time Bound completion of Testing and issuing the Test Reports on time.
- Qualified and Competent staff.
- Proper Environmental controlled laboratory.
- Wider range of Testing facilities & Economical Cost.
- Sophisticated Testing Facility & Pick services for testing samples.
- Our Test Reports are acceptable to all the government and other agencies.

SERVICES AT A GLANCE

BATTERIES & CELLS

- Rechargeable / Secondary Cells and Batteries (Nickel Systems) IS 16046 (Part 1) / IEC 62133-1
- Rechargeable / Secondary Cells and Batteries (Lithium Systems) IS 16046 (Part 2) / IEC 62133-2
- Solar Photovoltaic Batteries – Lead Acid Systems IS 16270 / IEC 61427-1
- Lead Acid Battery (Tubular Positive Plates) IS 1651
- Lead Acid Battery – Monobloc (Tubular Positive Plates) IS 13369
- Valve Regulated Lead Acid Batteries IS 15549
- Electric Vehicles Batteries - Lithium (Performance Testing) IS 16893 (Part 1) / IEC 62660-1
- Electric Vehicles Batteries - Lithium (Reliability and Abuse Testing) IS 16893 (Part 2) / IEC 62660-2
- Electric Vehicles Batteries - Lithium (Safety Testing) IS 16893 (Part 3) / IEC 62660-3
- Lead Acid Storage Batteries for Motor Vehicles with Light Weight IS 14257
- Rechargeable / Secondary Cells and Batteries (Nickel Cadmium) IS 16048 (Part 1) / IEC 61951-1
- Rechargeable / Secondary Cells and Batteries (Nickel-Metal Hydride) IS 16048 (Part 2) / IEC 61951-2
- Rechargeable / Secondary Cells and Batteries - Performance Testing (Lithium Systems) IS 16047 (Part 3) / IEC 61960-3
- Multipurpose Dry Batteries IS 8144
- Primary Lithium Batteries IS 6304 (Part 4) / IEC 60086-4



SERVICES AT A GLANCE

ELECTRONICS & IT PRODUCT TESTING

- Visual Display Units, Video Monitors of screen size upto 32"
- CCTV Cameras / CCTV Recorders
- USB driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint
- Smart watches
- Keyboard
- Automatic Teller Cash dispensing machine
- USB Type External Hard Disk Drives
- USB Type External Solid-State Storage Devices (above 256 GB capacity)
- Standalone Switch Mode Power Supplies (SMPS) with output voltage 48V (max.)
- Digital Camera
- Automatic Data Processing Machine
- Laptop / Notebook / Tablet
- Printers, Plotters
- Scanner
- Set Top Box
- Telephone Answering Machine
- Visual Display Units, Videos Monitors of Screen Size 32" and above
- Wireless Keyboard
- Cash Registers
- Copying Machines / Duplicator
- Passport Readers
- Point of Sale Terminal
- Mail Processing Machines/Postage / Franking Machines
- Power Banks For Use In Portable Application
- Smart Card Readers
- Mobile Phone
- Power Adaptors For IT Equipments

IS 13252 (Part 1) / IEC 60950-1



SERVICES AT A GLANCE

AUDIO VIDEO EQUIPMENTS TESTING

- Plasma / LCD / Led Television of screen size up-to 32" and above
- Wireless Headphone and Earphone
- Electronic Musical System with input power below 200 Watts
- Television other than Plasma / LCD / LED TVs
- Wireless Microphones
- Video Camera
- Webcam (Finished Product)
- Smart Speakers (with and without Display)
- Bluetooth Speakers
- Amplifiers with Input Power 2000W and above
- Electronic Games (Video)
- Electronic Musical Systems with Input Power 200W and above
- Optical Disc Players with Built in Amplifiers of Input Power 200W and above
- Power Adaptors For Audio, Video & Similar Electronic Apparatus

LUMINARIES - LED LIGHTS TESTING

- Fixed General Purpose Led Luminaires - IS 10322(Part 5/Sec 1)
- LED Hand Lamps - IS 10322(Part 5/Sec 6)
- LED Lighting Chains - IS 10322(Part 5/Sec 7)
- LED Luminaires for Emergency Lighting - IS 10322(Part 5/Sec 8)
- Rope Lights - IS 10322(Part 5/Sec 9)

IS 616 / IEC 60065

IS 10322 (Part 5)



SERVICES AT A GLANCE

DOMESTIC HOME APPLIANCES

- Adapters for Household and Similar Electrical Appliances (IS 302 (Part 1) / IEC 60335-1)
- Rice Cooker (IS 302-2-15 / IEC 60335-2-15)
- Microwave Ovens (IS 302-2-25 / IEC 60335-2-25)
- Electronic Clocks With Mains Power (IS 302-2-26 / IEC 60335-2-26)*
- Induction Stove (IS 302-2-6 / IEC 60335-2-6)
- Stationary Storage Type Electric Water Heaters IS 302-2-21 / IS 2082 / IEC 60335-2-21
- Electric Instant Water Heaters IS 302-2-35/ IS: 8978 / IECC 60335-2-35
- Electric Immersion Water Heaters IS 302-2-201 / IS 368 / IEC 60335-2-74

IS 302-2 / IEC 60335-2

LED LAMP / CONTROL GEAR / UPS / LANGUAGE TESTING

- Led Bulb - Self-ballasted Led Lamps For General Lighting Services
- Led Driver - DC or AC Supplied Electronic Controlgear For Led Modules
- UPS (Uninterruptible Power Supply) / Invertor
- Language Mobile - Indian Language Support For Mobile Phone Handsets

IS 16102(Part 1)

IS 15885-2-13
/IEC 61347-2-13

IS 16242(Part 1)
/IEC 62040-1

IS 16333 (Part 3)
/IS 16350

BEE STAR RATING TESTING

- Stationary Storage Type Electric Water Heaters
- Electric Instant Water Heaters

(IS 302-2-21/
IS 2082/
IEC 60335-2-21)

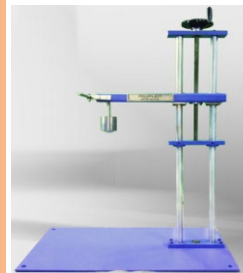
(IS 302-2-35/
IS: 8978/
IEC 60335-2-35)



SERVICES AT A GLANCE

ENVIRONMENTAL TESTING

- **Bump Test**
(IEC 60068-2-27 / JSS 55555, Test No. 5 / JSS 50101 / QM 333 Test no.13 / IS 9000 (Part-7: Sec 2))
- **Change in Temperature Test**
(ISO 16750-4 / IEC 60068-2-14 / IS 9000 (Part 14/Sec 1 to 3) / JSS 55555, Test No. 22 / JSS 50101 / QM 333, Test no.4)
- **Cold Test**
(IEC 60068-2-1 / IS 9000 (Part 2/Sec 1 to 4) / QM 333, Test no.1 / IEC 60571 Cl. 12.2.4 / JSS 55555 Test No. 20 / MIL-STD-810G Method 502.5)
- **Damp Heat Test**
(JSS 55555, Test No. 10 / QM 333, Test no.5 / IEC 60068-2-78 / IS 9000 (Part 4) / IEC 60571 Cl. 12.2.6 / ISO 16750-4 / IEC 60068-2-3 / IS 9000 (Part 5/Sec 1 to 2): / IEC 60068-2-30 / JSS 55555, Test No. 10 / JSS 50101 / QM 333 Test no.3)
- **Drop Test**
(MIL-STD-810F / ASTM D5279 / IEC 60068-2-32 / IEC 60068-2-31 / ISO 16750-4 / JSS 55555 / MIL-STD-810G)
- **Dry Heat Test**
(IEC 60068-2-2 / IS 9000 (Part 3/Sec 1 to 5) / JSS 55555 Test No. 17 / JSS 50101 / QM 333, Test no.2 / ISO 16750-4 / IEC 60571 Cl. 12.2.5 / MIL-STD-810G Method 501.5)
- **Dust Test**
IEC 60529: IS 9000 (Part12) / JSS 55555 Test No. 14 / JSS 50101)
- **Glow Wire Test**
(IS 11000 (Part 2/Sec 1): 2018 / IEC 60695-2-10: 2013)
- **High Temperature**
MIL-STD-810F, Method 501.4
- **Humidity**
MIL-STD-810F, Method 507.4
- **IK Test / Impact Test**
(IK Code 01, 02, 03, 04, 05, 06, 07, 08, 09 & 10)
IEC 62262 / IEC 60068-2-75)
- **IP Test (Ingress Protection Test / Degree of Protection Test)**
IP Code (First numeric) 1X, 2X, 3X, 4X, 5X, 6X and (Second Numeric)1X, 2X, 3X, 4X, 5X, 6X, 7X, 8X
(IS 60529 / IEC 60529 / IS/IEC 60034 : Part 5)
- **Low Temperature**
MIL-STD-810F, Method 502.4
- **Needle Flame Test**
IS 11000 (Part 2/Sec 2): 2008 / IEC 60695-11-5: 2016)
- **Rain Test**
MIL-STD-810F, Method 506.4
- **Shock Test**
(MIL-STD-810F , Method 516.5 / IEC 60068-2-27 / IS 9000 (Part-7/Sec-1) / JSS 55555 Test No. 24)
- **Temperature Shock**
MIL-STD-810F , Method 503.4
- **Vibration Test**
(IEC 60068-2-6 / MIL-STD-810F, Method 514.5 / IEC 60068-2-64 / JSS 55555 Test No. 28 / JSS 50101 / QM 333 Test No. 6 / IEC 61373 / IEC 60068-2-6 / IS 9000 (Part 8) / JSS 55555 / JSS 50101 / QM 333 Test No. 6)



QUALITY POLICY & QUALITY OBJECTIVES

IEC is committed to achieve total customer satisfaction in the field of testing by giving reliable, accurate & Quality test results as per Indian Standards through good professional practices, competence, impartiality, consistent operation of the laboratory and continual improvement by implementing ISO/IEC-17025: 2017

To constantly strive for excellence in all laboratory and allied activities by implementing the adequate quality standards. Competence is measured year on year to demonstrate continuous improvement.

To upgrade the testing facilities to meet the changing needs of the customer.

To implement & maintain ISO/IEC 17025:2017 management system in the laboratory.

To comply with specific requirements stipulated by Regulatory Authority as per terms and conditions of accreditation (NABL 131).

To provide timely delivery services every time. This is ensured by monitoring delivery against committed time.

To achieve these objectives the laboratory has implemented a detailed management system. It is the responsibility of all staff to familiarize themselves with the contents of management system and comply with them at all times.

IEC gives highest importance to competence, impartiality and consistent operation of the laboratory.



(NABL ACCREDITED LABORATORY - ELECTRICAL, ELECTRONICS & IT PRODUCTS)

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