

Envitest Laboratories Pvt. Ltd.

Envisioning Culture of Excellence

Envitest Lab's Adaption of the "A Principle" for Maximum Learning and Results

Special points of interest:

- Envitest Lab is partnering with global teams for exclusive test deliverables for electrical connectors.
- Envitest Lab in pursuit of exploring the test facilities to help our clients meet the demands of NCB's.
- Envitest Lab has successfully completed the test program delivery, which involved design teams from multiple countries.

In the pursuit of excellence and continuous improvement, Envitest Lab has embraced the "A Principle" as a guiding philosophy. The "A Principle" encapsulates the essence of adaptability, agility, and advancement, fostering an environment where learning and results are maximized at every turn. Envitest Lab's commitment to agility is evident in its proactive approach to staying abreast of industry trends and technological advancements. The lab recognizes that adaptability is key to remaining at the forefront of its field. This entails a readiness to pivot and adjust strategies, methodologies, and technologies in response to evolving client needs and industry dynamics.

Envitest Lab encourages to adapt

to innovation. The lab teams explore new avenues, experiment with emerging technologies, and embrace unconventional ideas. By raising an environment that values creativity and adaptability, Envitest Lab has become a hotbed for innovative solutions and groundbreaking discoveries.

Central to Envitest Lab's approach is the belief that continuous learning is the foundation of growth and excellence. The lab invests in employee development, offering opportunities for upskilling, cross-training, and knowledge sharing. This commitment to learning not only elevates the expertise of our team but also ensures that clients receive the most advanced and comprehensive services.



Achieving Outstanding Results:

Inside this issue:

Understanding the Importance of Earthing System	2
Necessary of Earthing System	2
Necessary of Testing Earthing System	2
Electrical Test: Elevating Precision and	3
The Integration of Test Equipment	3
Journey Towards Comprehensive	3
About Envitest Lab	4

Envitest Lab's adaptation of the "A Principle" has translated into tangible results. Clients benefit from quicker project turnaround times, improved testing accuracy, and access to new methodologies. The lab's ability to adapt swiftly to client needs and industry shifts ensures that the results we deliver are not just outstanding but also aligned with the latest industry standards.

Every team member understands the significance of adaptability, agility, and advancement in achieving excellence. This culture fills the lab's operations, creating a culture where continuous improvement a way of life.

Envitest lab is capable of delivering superior results while continually evolving to meet the changing needs of its clients and the dynamic land-

scape of the testing and certification industry.

This philosophy not only positions the Envitest Lab as an industry frontrunner but also ensures it remains a reliable partner for clients seeking solutions, results, interpretation and developments to their evolving requirements in the ever-changing testing and certification landscape.

Understanding the Importance of Earthing



“Laboratory test setup for measurement of Ground Bond test at Envitest Electrical lab—Live!”

An Earthing System, also known as a Grounding System, serves as a crucial safety measure in electrical networks, establishing a connection between electrical appliances and devices with the earth plate or electrode through a low-resistance wire. Its primary objective is to provide an alternative path for potentially dangerous currents, ensuring the safety of both individuals and equipment.

In an electrical system, metallic equipment parts are grounded

or connected to the earth. If the insulation of equipment fails, there is a risk of high voltages accumulating within the equipment's outer casing. Without proper grounding, these dangerous voltages can pose a severe electric shock hazard to anyone coming into contact .

The presence of an Earthing System mitigates these risks. When a live wire touches the earthed case of equipment, the circuit is immediately shorted, causing the fuse to blow, there-

by preventing accidents and electric shocks.

The significance of Earthing cannot be overstated. They are a cornerstone of electrical safety, protecting lives, equipment, and structures from the dangers of electric shock, voltage fluctuations, and overloads. Understanding the importance of an Earthing System is the first step towards creating a safe and reliable electrical equipment in homes and offices, and workplaces.

Necessary of Earthing System

The ground continuity test and ground bond test serve as robust safety validation mechanisms, meticulously assessing the integrity of protective earth conductors.

But why is an Earthing System necessary even when all equipment and wiring are in good condition? The answer lies in its fundamental advantages:

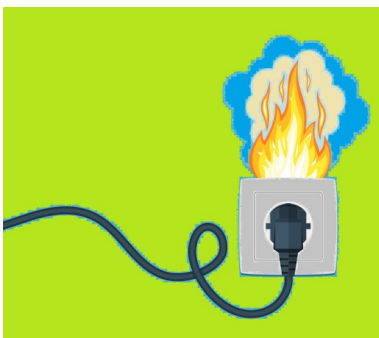
Voltage Stabilization: It establishes a common reference point for all electrical sources, aiding in voltage stability and calculation between different sources in an electrical distribution system.

Over Voltage Protection: The system provides an alternative path for dangerous currents, minimizing the impact of lightning strikes and accidental contact with high-voltage lines in an electrical system.

Safety: An Earthing System safeguards human lives by preventing electric shocks, protects electrical devices, and ensures the structural integrity of buildings during

short circuits and lightning strikes.

Earthing, a critical safety element, demands regular maintenance and monitoring to ensure its effectiveness. Continuous monitoring of the earthing system allows for the real-time assessment of its condition and the detection of potential faults. This is theory and Envitest Lab converts to practical.



Necessary of Testing Earthing System

The ground continuity test and ground bond test are essential procedures in the realm of electrical safety, aimed at verifying the integrity of protective earth conductors and their ability to provide safety in various scenarios.

Ground Continuity Test focuses

on ensuring that the protective earth conductor remains continuously connected to all metallic enclosure parts that are accessible to users. It is carried out using low currents and voltages, often referred to as a simple continuity test.

The ground bond test takes the

protective conductor test to a higher level of scrutiny. Here, a high current is deliberately applied to the protective conductor during the test, simulating the load that would occur in the event of a fault.

Envitest Lab carries out both tests to make your product safe.

Electrical Test: Elevating Precision and Capabilities

Last month proved to be exceptionally busy for our team as we welcomed and integrated state-of-the-art test equipment into our electrical testing setup. This significant development marked a substantial milestone for our operations and holds great promise for enhancing the precision, efficiency, and capabilities of our testing processes.

The acquisition of modern test equipment was driven by our unwavering commitment to staying at the forefront of tech-

nological advancements in the field of electrical testing. We understand that our clients rely on us to deliver the most accurate and reliable results, and investing in cutting-edge technology is a testament to our dedication to meeting and exceeding their expectations.

The new equipment represents a substantial upgrade over our previous setup in several key areas. It offers enhanced data acquisition capabilities, allowing us to capture and analyze

electrical parameters with even greater accuracy and speed. This means quicker turnaround times for our clients without compromising the quality of our testing procedures.

The anticipation of positive impacts on research and development initiatives signifies a commitment to conducting in-depth and sophisticated experiments, leading to the development of innovative solutions and services to address complex client challenges.



"The inclusion of a comprehensive array of test equipment significantly enhances the quality and scope of our services, leading to a superior customer experience."

The Integration of Test Equipment

The introduction of this advanced equipment to Envitest Lab enables us to expand our testing capabilities, accommodating a broader range of electrical products and components. This flexibility empowers us to meet the evolving needs of our diverse client base, ensuring that we can provide comprehensive testing solutions for a wider spectrum of industries and applications.

We are particularly excited about the positive impact this equipment will have on our customers research and development initiatives. It will enable us to conduct more in-depth and sophisticated experiments, ultimately leading to the development of innovative solutions and services that address the most complex challenges .

The addition of modern test equipment to our electrical

testing setup has invigorated our team and operations. It underscores our commitment to excellence and innovation, and we look forward to leveraging this technological advantage to deliver even more value to our clients in the coming months and years. We remain dedicated to pushing the boundaries of possibilities, and we are excited to embark on this new phase of growth and advancement.

Commitment to Technological Advancement: The precise test equipment demonstrates a strong commitment to staying at the forefront of technological advancements in electrical testing. .

Journey Towards Comprehensive Testing

Envitest Lab now on a path towards achieving completeness in our electrical testing services, solidifying our commitment to providing comprehensive and cutting-edge solutions to our clients. It signifies our dedication to continuously expanding and enhancing our capabilities to meet the evol-

ving demands of industries and technologies. By striving for completeness in electrical testing, we aim to offer our clients a one-stop destination for all their testing needs, ensuring that they receive the highest level of service and expertise.

As we move forward, we re-

main committed to pushing the boundaries, and we look forward to providing our clients with an even more comprehensive and exceptional testing experience. Stay tuned for further updates as we continue to redefine the standards of excellence in the field of electrical testing.



ENVITEST LABORATORIES PVT LTD

NABL Accredited Laboratory
DGAQA Approved Lab
No.14-1510, Shamanna Reddy Layout,
Garvebhavi Palya, Hosur Road, Bangalore -
560068
Tel: 080 4217 1044
Tel: +91 9606075771
Tel: +91 9606075774
info@envitestlab.com

Our Services

Climatic Simulations

Contamination and Ingress

Aircraft Electrical Testing

Optical Fibre Cable Testing

International Approvals

Customized Tests

Dynamics & Vibration

Materials / Metallurgical Testing

Electrical Safety Testing

Telecom Interface Testing

Connectors Test

Engineering Services



Scan QR code to know more



Scan QR code to contact you



About Envitest Lab

ENVITEST abbreviated for “ENVIRONMENTAL TESTING”, established in 2017 at Bangalore Electronic City, is a ISO/IEC 17025 certified company with an unlimited vision backed by professionals having great experience in problem solving, with an objective to offer high-quality testing and inspection, pre-compliance and certification, engineering services for the across the globe products at best quality results, consistent process, and affordable cost.

We serve across domains products for the compliance and certifications. Over time we kept on adding the new testing facilities to bring more opportunities for growth but would allow to provide a more complete portfolio of testing solutions to our customers. From our humble beginnings, we have grown from a simple test house who worked

on the world’s most complex engineering projects to become a leading test lab of standard and custom test services.

Throughout our journey to become one of the premier worldwide service providers of testing solutions, we have held true to the philosophy that the customer comes first. This dedication to customer service has allowed us to work with leading manufacturers in over 22 industries including aviation, automotive, aerospace, defense, medical, energy, to name a few. Located in Bangalore, our campus is comprised of two buildings with over 10,000 square feet of space. Each building has been tailored to provide flexibility, comfort, and safety for everyone while providing room for continued growth and innovation.

We have 3 Disciplines -

Electronics and Electrical Product Test covering Optic fibre, electrical connectors for automotive and MIL, Aircraft electrical characteristic, Product safety, Product performance, Product susceptibility test.,

Telecom Product Test covering telecom products which covers PON and GPON Test, Interface Test, EMI/EMC test, Router and Switches and many more.

Environmental Test for Any Product covering - Shock and Vibration, Bump, Thermal, Humidity, Damp Heat, Cold Hot temperatures, thermal shock, Ingress protection, dust, water, contamination, fungus, Ultraviolet UV, salt and acidic corosions and many more.