

The Right Direction

MOVE IN THE RIGHT DIRECTION: THE POWER OF A TESTING LAB

Testing laboratories play a critical role in ensuring that products and processes are moving in the right direction.

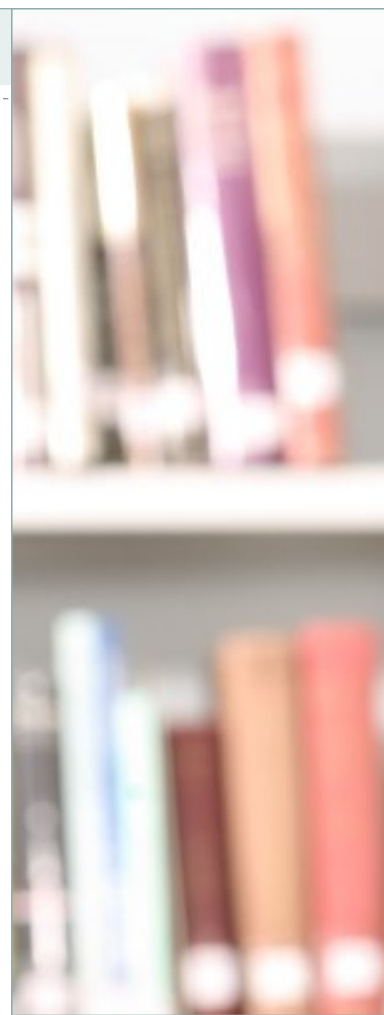
Envitest Lab is equipped with specialized facilities, advanced tools and technologies that enable precise and accurate testing of various materials, components, and products. Envitest Lab has expertise and experience in testing for industries such as telecommunications, electronics, automotive, aerospace, and many others, where quality, safety, and compliance are of utmost importance.

Through rigorous testing, Envitest lab can detect any defects, faults, or contaminants that may affect the performance, safety, or reliability of the products. This allows manufacturers to identify and rectify any issues early in the production process, preventing rejections, or customer complaints, and ensuring that products are moving in the right direction.

Envitest Lab play a crucial role in research and development (R&D) efforts. We help conduct experiments, simulations, and evaluations to determine the viability, feasibility, and performance of new devices, prototypes, and technologies. The tests provide valuable data and insights that guide engineers and scientists in making informed decisions about product design, optimization, and improvement. We help companies identify opportunities for innovation, stay competitive in the market, and move in the right direction by developing cutting-edge products that meet customer needs and surpass industry standards.

Furthermore, Envitest lab support regulatory compliance by conducting tests that adhere to national and international regulations and standards. At Envitest Lab, we ensure that products comply with safety, environmental, health, and other regulations set by regulatory agencies and industry bodies. Compliance with these regulations is crucial for companies to gain certifications, approvals, and licenses, and to establish trust.

In conclusion, Envitest lab is indispensable in ensuring that products and processes move in the right direction. They provide critical quality control, R&D support, regulatory compliance, third-party validation, and sustainability testing services that help companies develop high-quality products, gain customer trust, comply with regulations, and contribute to a better future. Envitest Lab is at the forefront of ensuring that products meet industry standards, are safe to use, and perform as expected, which is essential for companies to thrive in today's competitive business landscape. Our expertise, precision, and dedication to accuracy make us the vital partners for companies to move in the right direction towards success.



INSIDE THIS ISSUE

Aspects of right direction	2
The right direction—ISO 17025	2
Telecommunication device test	3
About Envitest	4

SPECIAL POINTS OF INTEREST

Envitest likes to receive the feedback and same is available in our website to write to us about

- How was your overall experience on services provided by Envitest Lab?
- How easy it is to approach Envitest Lab for Testing requirements?
- How was your queries or concerns addressed?
- How was our Testing Project delivery?
- How was the technical capabilities at Envitest Lab?



ASPECTS OF RIGHT DIRECTION

The concept of "Right Direction" encompasses several key aspects.

Firstly, it refers to the need for products and processes to meet industry standards, regulatory requirements, and customer expectations, ensuring quality and safety.

Secondly, it involves continuous improvement through research and development efforts, innovation, and optimization of processes to stay ahead in the market.

Thirdly, it emphasizes compliance with legal and ethical frameworks, promoting transparency and integrity.

Over and above, it must include sustaina-

bility and environmental responsibility, addressing the growing need to protect the environment and contribute to a more sustainable future. All these aspects are crucial for moving in the right direction towards success, growth, and a better future of the products.

Everyone wants to uniquely place their products in the market and expects them to be the best depending on what aspect of experience and the usage one considers most important, there are several options which might be good.

Envitest Lab significantly contributes to meet all the said requirements.

Telecommunication Device Testing: Ensuring Connectivity in the Connected World

WHAT IS ENVITEST

Our test lab is equipped to meet a variety of commercial, automotive, medical, aerospace and military test standards, as well as a broad range of customer-defined test specifications. Below is a partial list of common test specifications and applications that we frequently test.

TEST CAPABILITIES

ENVITEST LAB has one of the largest and most complete sets of product qualification testing capabilities and services in the world, that is at the forefront of testing and qualifying new product innovations in the Aero-space, Construction, Consumer Product, Defense, Digital Engineering, Energy, Life Sciences, Transportation, and Telecommunications industry sectors.

Envitest Lab can be trusted for,

- ◆ Advice
- ◆ Testing
- ◆ Certification
- ◆ Market access

THE RIGHT DIRECTION—ISO 17025

ISO/IEC 17025 is a standard that lays down the principles for specific requirements to be met by laboratories wishing to achieve the competent results. These requirements were developed by groups of laboratory experts from around the world over the practice of many years.

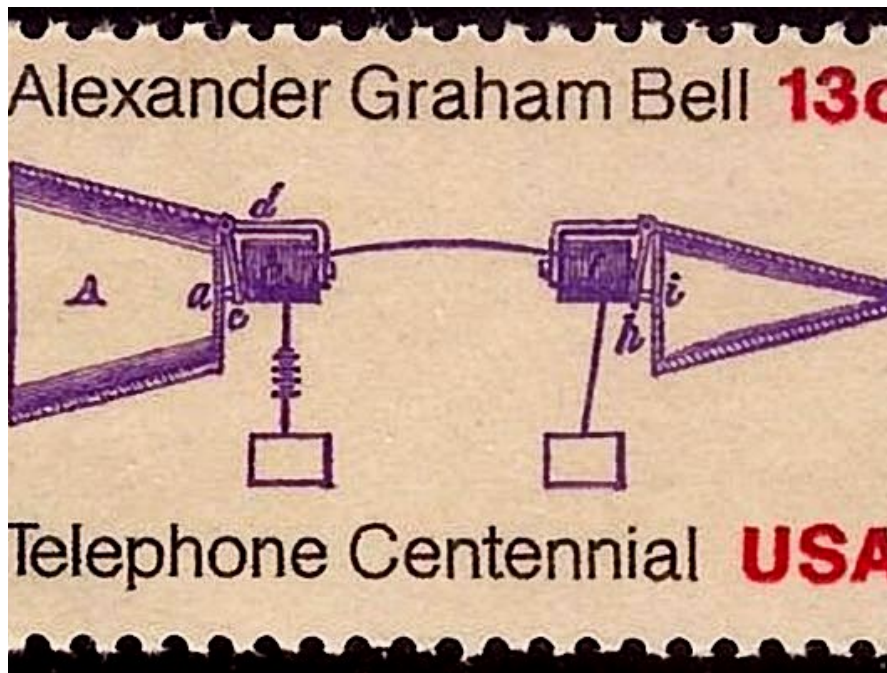
From the beginning, laboratory competence has been the utmost importance. In today's world, recognition of such competence generally requires that laboratories implement the requirements of the standard and obtain accreditation. This accreditation is the mark of recognition of the competence.

ISO 9000 is now well known and respected standard around the world which aims at the organizations to implement a "template for excellence". The standard effectively breaks down the elements which an organization can readily achieve in their implementation of such a template, articulated and understood.

Those who live and work in the world of laboratories must adhere to principles, which varies from organization to organization. Such principles must provide a clear understanding of the requirements of the standard which are adopted for laboratory operations.

In our experience in laboratory operations over the course of the last fifteen years, our understanding of ISO 17025 requirements is as below which we proudly follow even to the date.

- * Capacity
- * Responsibility
- * Impartiality of Conduct
- * Scientific Method
- * Traceability of Measurement
- * Repeatability of Test
- * Objectivity of Results
- * Transparency of Process



Bell prototype telephone stamp—Issue 1976

TELECOMMUNICATION DEVICE TEST

In today's interconnected world, telecommunication devices have become an integral part of our daily lives. From smartphones and tablets to routers and modems, these devices enable seamless communication, data transfer, and connectivity.

To ensure their performance, reliability, and safety, telecommunication devices must undergo rigorous testing before they reach the hands of consumers. Telecommunication device testing is a crucial process that involves comprehensive analysis, evaluation, and verification of various aspects of these devices to ensure they function optimally and meet industry standards.

One of the primary objectives of telecommunication device testing is to ensure connectivity. These devices rely on wireless or wired communication technologies, such as cellular networks, Wi-Fi, Bluetooth, NFC, Ethernet, and more, to enable communication and data transfer.

Testing involves verifying the performance of these communication technologies, including signal strength, range, speed, stability, and interoperability. This ensures that the devices can establish and maintain reliable connections, and perform optimally in different network environments, ensuring uninterrupted communication and connectivity for users.

Telecommunication device testing also encompasses testing the performance and functionality of the devices themselves. This includes testing various features such as call quality, data transfer speed, GPS accuracy, battery life, touch screen responsiveness, camera performance, and more.

Furthermore, telecommunication device testing may also encompass regulatory compliance. These devices must comply with various regulations and standards.

Envitest Lab is equipped itself for state of art facility which includes testing various features such as call quality, data transfer speed, battery life, touch screen responsiveness, camera performance, and more. Additionally, testing for evaluating the device's compatibility with different operating systems, applications, and platforms, ensuring seamless performance in different environments.

HISTORY OF TELECOMMUNICATION

Since the invention of telephone in 1876 by Dr. Alexander Graham Bell, the telephones have come long way to now, where we can pay to a vegetable vendor using our smart phone. However, the significant research is on its way to make these transactions safe and charismatic.

In ancient times, people used smoke signals or chirps of different tones to communicate the signals. These were used even today by our military where a formal communication is impossible. Once the electricity was invented, it was followed by the invention of telephone which used mode as "communication with electricity".

Telephone technology grew quickly after the first commercial services emerged. Then in 1950's, semiconductors were introduced. From 1950 onwards is referred as the semiconductor era, due to the wide adoption of semiconductor devices in telecommunication technology. Introduction of semiconductors made more advances in telecommunication technology, and led to the price drop, making more affordable. By end of 1999, most of the world were successfully connected with telephones.

Then started the modern-era mobile (cellular) phone. In 1991, the digital cellular technology was launched as commercial service on the GSM standard, and this sparked the revolution in the telecommunications. This wireless revolution leading to the transition from analog to digital networks and connecting everything from computer to cell phone to any device that has semiconductor chip. In present, using this technology, one can switch ON/OFF the lights at home sitting in office, track everything happening around.

Today, we cannot leave without a cell phone or mobile phone. It has become prevalent part of our life from watching IPL to getting benefits from government, everything is linked to the cell phone.

OUR SERVICES

- ◆ Climatic Simulations
- ◆ Dynamics & Vibration
- ◆ Contamination and Ingress
- ◆ Materials / Metallurgical Testing
- ◆ Aircraft Electrical Testing
- ◆ Electrical Safety Testing
- ◆ Optical Fibre Cable Testing
- ◆ Telecom Interface Testing
- ◆ International Approvals

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 pro-vide 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, defence, medical, energy, to name a few. Located in Banga-lore, 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.

ENVITEST LABORATORIES PVT LTD

ISO/IEC 17025 (NABL) Accredited Laboratory – Certificate # TC7490)

DGAQA Approved Lab – Certificate # 1408/LAB/DGAQA/TECH-COORD/12

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

www.envitestlab.com

