

**PILE FOUNDATION,
GROUND &
STRUCTURAL
TESTING SERVICES**

BROCHURE



TESTING | CALIBRATION | PT SERVICES

Accredited as per:
ISO/IEC:17025-2017 for Testing & Calibration services by NABL.
ISO/IEC:17043-2023 for Proficiency Testing for Calibration services by NABL.

ABOUT GLOBAL LAB

Your Trusted Partner in Material Testing,
Calibration & PT Services

Motto: Authenticity. Accuracy. Transparency.
Reliability.

Global Lab is a leading provider of Construction Material Testing, Calibration and Proficiency Testing services, Specializing in testing of Building Materials, Industrial products and infrastructure monitoring. With precision-driven methodologies and state-of-the-art laboratories, we empower industries to ensure the quality, durability and performance of their materials.

With a strong presence in the construction, manufacturing and allied sectors, we deliver accurate test results that enable businesses to make informed decisions, enhance product integrity and meet industry benchmarks. Our team of experts, combined with cutting-edge technology, ensures that every test & calibration produces reliable, data-driven insights that inspire confidence and excellence.

At Global Lab, we are committed to setting the standard for material testing—helping businesses build with certainty, innovate with assurance and operate with trust.



**CIVIL
TESTING**

**CALIBRATION
SERVICES**



**PROFICIENCY
TESTING**

INSPECTION



20000+
PROJECTS SERVED



20000+
SATISFIED CUSTOMERS



50+
PROFICIENCY TESTING
PROGRAM



1000+
TESTS



175+
CALIBRATIONS



200+
EXPERT WORKFORCE

Our Areas of Expertise

We specialise in a wide range of Material Testing, Calibration, and PT services, including:

- Pile Testing
- Concrete Durability
- Concrete Mix Design
- Concrete NDT Testing
- Building Material Testing (Mechanical and Chemical)
- Metallic Material Testing (Mechanical and Chemical)
- Soil & Rock Testing
- Bridge Load Testing
- Structural Health Monitoring
- Structural Health Assessment
- Mass Concrete Temperature Monitoring
- Calibration Services
- Proficiency Testing Services



COMMITMENT TO GLOBAL STANDARDS

At Global Lab, we take pride in our commitment to internationally recognized quality and competency standards. Our laboratory is accredited with:

- ✓ ISO/IEC 17025:2017 – Ensuring competence in Testing & Calibration Services
- ✓ ISO/IEC 17043:2023 – Accreditation for Proficiency Testing Services

These accreditations have been awarded by the National Accreditation Board for Testing and Calibration Laboratories (NABL).

Accreditation & Compliance

NABL accreditation signifies that our testing and calibration services meet the highest levels of technical competence, reliability and impartiality. This globally recognized certification assures our clients that:

- Our laboratory operates with precision, accuracy and consistency.
- Every test and calibration process follows strict quality control protocols.
- We adhere to National & International best practices in testing and calibration.
- Our results are credible, reproducible and widely accepted across industries.

By maintaining stringent compliance with national and international benchmarks, Global Lab continues to deliver trustworthy and validated results — reinforcing our position as a leader in the testing and calibration industry.

OUR HISTORY

A Legacy of Excellence & Commitment

Established on Independence Day 2009, Global Lab began its journey in Mumbai, India, with a vision to redefine the standards of construction materials testing, calibration and proficiency testing services. Over the years, we have grown into an industry leader, serving thousands of satisfied clients with unmatched expertise, precision and ethical practices.

Our extensive portfolio includes collaborations with central and state government organizations, multi-national corporations and global industrial giants. These partnerships are a testament to our unwavering dedication to quality, compliance and technical excellence.



TC - 5713

Testing
Mumbai



TC - 8522

Testing
Kolkata



TC - 14645

Testing
Navi Mumbai



TC - 16301

Testing
Bhubneswar



TC - 12677

Testing
Guwahati



CC - 2245

Calibration
Mumbai



PC - 1097

Proficiency Testing
Mumbai

OUR VISION

- At Global Lab, we envision becoming the most trusted, reliable and competent testing and calibration partner for industries worldwide. Our goal is to set the benchmark for excellence, precision and integrity, ensuring that businesses across the construction and allied sectors achieve the highest standards of quality and compliance.
- We strongly believe that every organisation—from large enterprises to independent consultants and emerging firms—plays a vital role in shaping a better future. By prioritising their needs and delivering unparalleled services, we uphold our commitment to social and corporate responsibility, contributing to a stronger and more resilient industry landscape.

OUR MISSION

- To be a global leader in Testing, Calibration & PT services, recognized for excellence, reliability and innovation.
- To be the preferred choice for our clients by consistently delivering trustworthy, high-quality and value-added services with precision and efficiency.
- To continuously innovate and adopt cutting-edge technologies that enhance productivity, sustain-ability and cost-effectiveness.
- To foster a culture of excellence and expertise, empowering our professionals with continuous learning, development and pride in their work.

INDUSTRIES WE WORK IN



DIGITIZED OPERATIONS

Global Lab has significantly advanced its operations by implementing a cutting-edge digitized reporting system for all testing, calibration, and Proficiency Testing processes. This innovative solution leverages state-of-the-art technology to ensure accurate, real-time documentation and secure data management.

Key Benefits of the Digitized Reporting System:

Enhanced Accuracy and Precision: The system eliminates the potential for human error associated with manual reporting, guaranteeing precise and reliable data.

Real-Time Access to Reports: Customers can conveniently access comprehensive reports at their fingertips, reducing delays and improving decision-making.

Streamlined Workflow: The seamless integration of the system into Global Lab's processes optimizes efficiency and accelerates turnaround times.

Enhanced Transparency: Standardized reporting formats and secure online access provide clients with a clear and detailed overview of their test, calibration, and proficiency testing results.

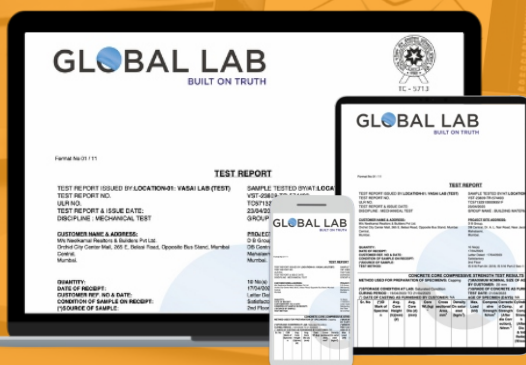
Industry Compliance: The system adheres to stringent industry regulations, ensuring that all reports meet the highest quality standards.

By prioritizing user convenience, Global Lab has designed the digitized platform to offer a hassle-free experience. Clients can easily track their reports and access them securely online. This innovative solution not only elevates Global Lab's service standards but also empowers industries to achieve faster turnaround times and improved operational efficiency.



ACCESS REPORTS FROM ANYWHERE, ANYTIME

Global Lab stands at the forefront of Testing, Calibration, Proficiency Testing, and Inspection services for the construction industry. We know that timely insights into material performance are critical. With our advanced digital reporting platform, you can access accurate and dependable results whenever you need them, keeping your projects on track and quality-assured.



At Global Lab, we believe in staying ahead of the game by leveraging the latest technology and innovative solutions. In line with the Government of India's "Digital India" program, our laboratories have implemented a state-of-the-art SaaS-based QLMS software called 'Autovity' across all our facilities.

This software has helped us control, monitor, and optimize our laboratory operations, ultimately leading to enhanced productivity, cost-effectiveness, and transparency in reporting.



Bi-Directional Load Test (O-Cell)

01

To determine the ultimate load-bearing capacity using an embedded hydraulic jack that mobilizes both shaft and end-bearing resistance simultaneously.

Advantages:

- Eliminates need for heavy reaction systems (kentledge/anchor piles)
- Ideal for high-capacity piles
- Suitable for restricted access sites
- Provides separate shaft and base resistance data
- Highly efficient for deep foundations



ASTM C 8169

Vertical Load Test (Static)

02

To measure pile settlement under incremental vertical loading to determine safe bearing capacity.

Advantages:

- Most reliable and widely accepted method
- Direct measurement of pile-soil interaction
- High accuracy for design validation
- Essential for critical foundation projects



IS 2911 (Part 4)

Cyclic Pile Load Test

03

To evaluate pile behaviour under repeated loading and unloading cycles.

Advantages:

- Differentiates skin friction and end bearing
- Simulates real-life loading conditions
- Helps in optimized and economical design
- Useful for structures under variable loads



IS 2911 (Part 4)

Dynamic Load Test (High Strain)

04

To estimate pile capacity and integrity using impact loading and PDA instrumentation.

Advantages:

- Quick and cost-effective
- Enables testing of multiple piles
- Provides capacity estimation & integrity check
- Minimizes project delays



ASTM D4945, IRC:78 (Appendix 7)

Pile Integrity Test (Low Strain)

05

To detect defects like cracks, necking, voids, or discontinuities in pile shaft.

Advantages:

- Non-destructive testing (NDT)
- Fast and economical
- Can be conducted on 100% piles
- Ensures overall quality assurance



ASTM C 5682, IS 14893:2021, IRC:78 Part-2

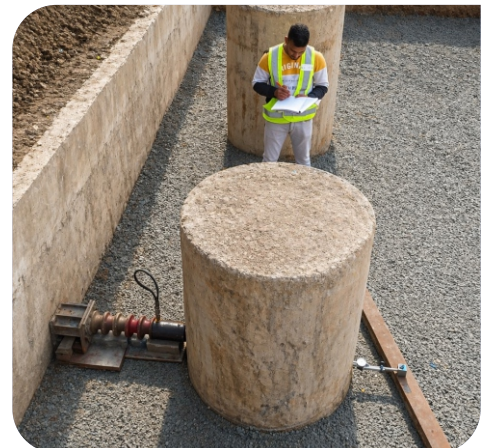
Lateral Load Test

06

To evaluate pile resistance against lateral forces such as wind, seismic, or earth pressure.

Advantages:

- Critical for bridges, high-rise & marine structures
- Ensures lateral stability
- Helps in serviceability assessment



IS 2911 (Part 4)

Pull-Out (Tension) Load Test

07

To determine uplift resistance of piles under tensile forces.

Advantages:

- Essential for basements, towers & transmission lines
- Evaluates uplift and overturning resistance
- Ensures structural safety under tension loads



IS 2911 (Part 4)

Stone Column Load Test

08

To assess load-settlement behaviour of ground improved with stone columns.

Advantages:

- Validates ground improvement effectiveness
- Ensures uniform load distribution
- Suitable for soft soil conditions



IS 15284 (Part 1)

E_{v1} / E_{v2} Plate Load Test

09

To determine deformation modulus and compaction quality of soil layers.

Advantages:

- Provides E_{v2} / E_{v1} ratio (strain ratio)
- Quick and reliable assessment
- Ideal for road, runways, ware house and pavement works



DIN 18134

Modulus of Subgrade Reaction (k-Value) Test

10

To determine subgrade stiffness for pavement, runways and raft foundation design.

Advantages:

- Direct input for structural modelling
- Critical for slab-on-grade design
- Ensures long-term performance



IS 9214

Plate Load Test

11

To determine ultimate bearing capacity and shear strength parameters of soil.

Advantages:

- Simulates actual field loading conditions
- Provides reliable design parameters
- Suitable for shallow foundations



IS 1888, IS 12070

Plate Load Test (Cyclic)

12

To evaluate soil behaviour under repeated loading cycles.

Advantages:

- Determines elastic & plastic deformation
- Useful for repetitive load conditions
- Enhances foundation design accuracy



: IS 1888, IS 5249

Bridge Load Test

13

To verify load-carrying capacity and performance of bridges before commissioning or after rehabilitation.

Advantages:

- Validates design assumptions
- Identifies structural deficiencies
- Ensures safety under live loads



: IRC SP 51:2015, IRS Concrete Bridge Code

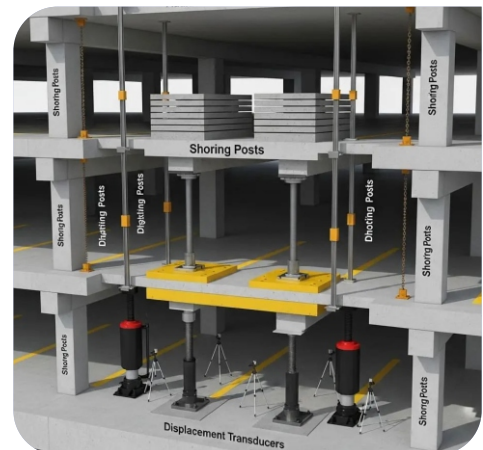
Reinforced Concrete Structure Testing

14

To evaluate overall performance of reinforced concrete structures.

Advantages:

- Ensures compliance with design standards
- Assesses structural health
- Supports repair & rehabilitation decisions



: IS 456

Rebar Anchor Pull-Out Test

15

To determine the tensile load capacity and bond strength of installed anchors or reinforcing bars embedded in concrete.

Advantages:

- Verifies anchorage performance and installation quality
- Essential for post-installed anchors and retrofitting works
- Detects improper bonding or installation defects
- Supports design validation and safety compliance
- Applicable for chemical anchors, mechanical anchors, and rebar dowels



IS IS 11309

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www.globallabindia.com



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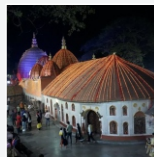
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OUR PRESENCE ON MAP

Growing Company, Increasing Footprints..

AHMEDABAD
Global Lab (Support Office)

SURAT
Global Lab (Regional Lab)

VASAI, MUMBAI
Global Lab (Main Branch)

BORIVALI, MUMBAI
Global Lab (Support Office)

KURLA, MUMBAI
Global Lab (Branch Lab)

NAVI MUMBAI, MUMBAI
Global Lab (Corporate Branch)

GUWAHATI, ASSAM
Global Lab (Regional Lab)

KOLKATA, WB
Global Lab (Regional Lab)

BHUBANESWAR, ODISHA
Global Lab (Regional Lab)

