



JACOB
ENGINEERS

STRUCTURAL AND MATERIAL TESTING DIVISION



BECAUSE EVERY
STRUCTURE DESERVES
CERTAINTY

NABL ACCREDITED

As per ISO/IEC 17025:2017

CIBI JACOB

CHIEF CONSULTANT



Jacob Engineers Private Limited (JE Pvt Ltd) has been a leading name in **Construction Material Testing and Soil Testing**. We are a **NABL Accredited Laboratory** and a trusted name in civil engineering, specializing in testing building materials, providing quality consultancy for infrastructure projects, and assessing heavy concrete structures.

With decades of experience, **Jacob Engineers Private Limited** operates a state-of-the-art in-house laboratory equipped with the latest technologies. Our advanced equipment allows us to perform a wide range of tests accurately and efficiently, ensuring error-free results across all services. As a one-stop shop for turnkey structural engineering solutions, we offer reliable Soil SPT Tests for foundation recommendations and comprehensive quality testing for **concrete, aggregates, asphalt, steel, and other essential construction materials**. Our detailed reports and precise testing reinforce our commitment to delivering dependable, zero-error solutions.

OUR EXPERTISE



Soil Testing



Geotechnical Engineering



Aggregates Testing



Design Mixes



Building Materials Testing



Non-Destructive Tests (NDT)



Chemical Analysis



Steel Testing



Water Testing



Cement Testing



Rock Testing

Soil Testing

Soil testing is crucial for construction projects to determine the physical and engineering properties of soil at a site. This data is essential for designing and constructing stable foundations, retaining walls, and slopes.

Our soil testing services include:

- Standard & Modified Proctor Test • CBR • Direct Shear Test
- Consolidation • Triaxial • Permeability • Swelling Pressure
- Grain Size Analysis (Wet, Dry, Hydrometer) • Liquid Limit & Plastic Limits
- Free Swell • Specific Gravity • Field Density by Core Cutter
- Field Density by Sand Replacement



Geotechnical Engineering

Our Geotechnical engineering services provide insights into subsurface conditions vital for the safe design and construction of structures. We offer:

- Soil Sampling and Analysis
- Borehole Drilling
- Slope Stability Analysis
- Foundation Design Recommendations

Aggregate Testing

Testing aggregate is critical for understanding their performance and durability. Our aggregate testing includes:

- Sieve Analysis
- Specific Gravity
- Impact Value
- Flakiness & Elongation
- Crushing Value
- Abrasion Value



Design Mix

We tailor concrete mixes to meet project-specific requirements, ensuring optimal strength, durability, and workability. Our design mixes include:

- PCC (Plain Cement Concrete)
- RCC (Reinforced Cement Concrete)
- SCC (Self-Compacting Concrete)
- PQC (Pavement Quality Concrete)
- DLC (Dry Lean Concrete)



Building Materials Testing

Ensuring the highest quality in building materials is crucial for the safety and longevity of any construction project. Our testing includes materials such as:

- Bricks
- Hollow & Solid Blocks
- Paver Blocks
- AAC Blocks
- Porotherm Bricks

Non-Destructive Tests (NDT)

Non-Destructive Testing (NDT) helps inspectors evaluate a product or structure without causing damage. It checks properties like strength, quality, durability, conductivity, and corrosion resistance using methods such as:

- Rebound Hammer
- Ultrasonic Pulse Velocity (UPV)
- Cover Meter
- Pile Integrity Test
- Carbonation Test
- Half Cell Potential
- Concrete Core Cutter



Chemical Analysis

Our chemical analysis services help reduce the environmental impact of construction and ensure the highest quality materials are used.

We analyze:

- Aggregates
- Soil
- Cement



Steel Testing

Steel is a foundational element in construction, and understanding its physical properties is essential for structural integrity. We test:

- Tensile Strength
- Elongation
- Bend & Rebend
- 0.2% Proof Strength

Water Testing

Ensuring the quality of water is essential for meeting safety and regulatory standards in construction and environmental projects. Our water testing includes:

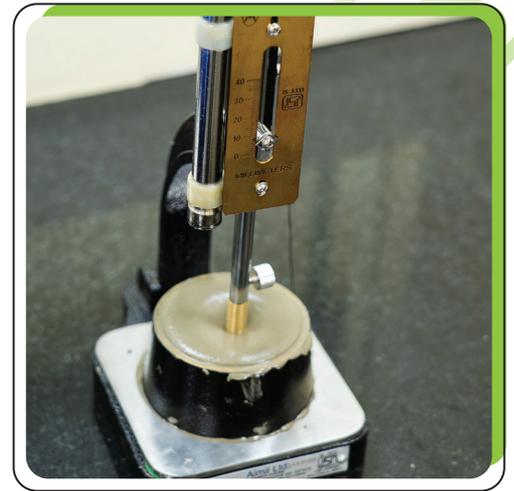
- Contamination Levels
- Chemical Composition
- Physical Properties



Cement Testing

We test cement to check its quality and suitability for construction work. Our testing ensures the cement meets required standards and performs well in structures. Our cement testing includes:

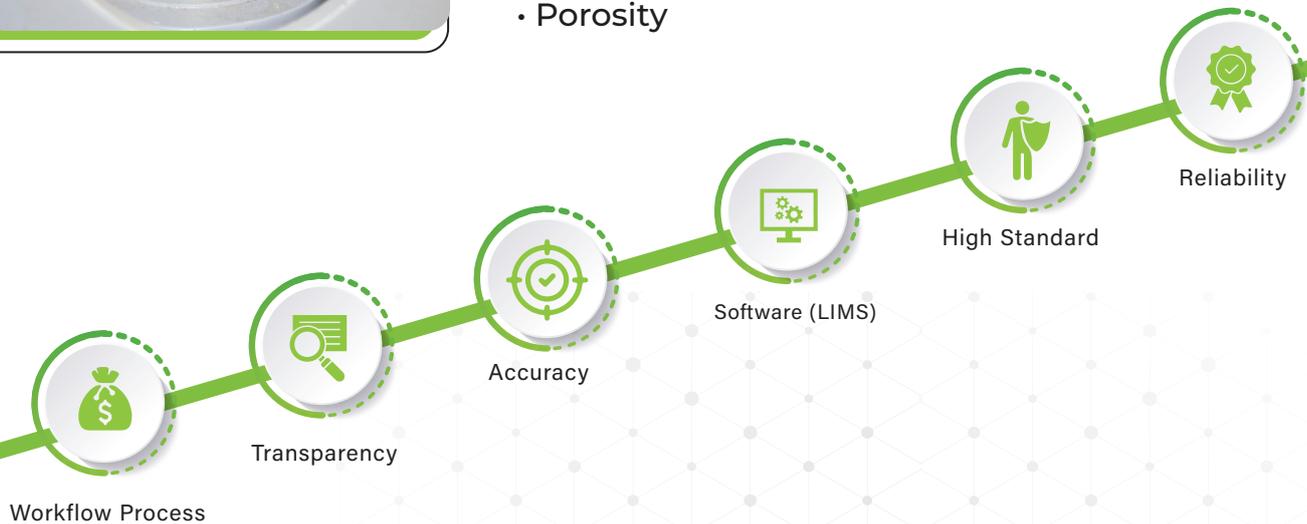
- Strength
- Setting Time
- Quality & Durability
- Overall Performance



Rock Testing

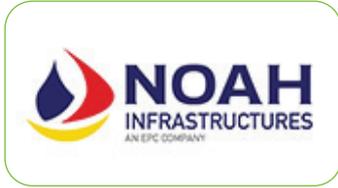
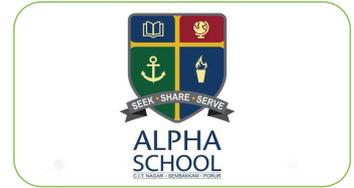
Rock testing optimizes excavation, tunneling, and foundation design. We evaluate rock strength through:

- Density
- Point Load Index
- Specific Gravity
- Porosity



We ensure all testing procedures meet the highest standards of accuracy and reliability. Using Laboratory Information and Management Software (LIMS), test data is recorded in real-time, and reports are generated automatically, reducing errors and ensuring traceability. All reports are securely stored for easy access and future reference. Our processes are regularly reviewed and refined to consistently exceed client expectations and industry standards.

OUR ESTEEMED CLIENTS





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JACOB ENGINEERS PRIVATE LIMITED



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