

India's one of the leading **civil engineering testing laboratory** with **400+ NABL-accredited** tests spanning **geotechnical** investigation, **construction materials testing**, and **chemical** analysis



SHREE ENGINEERING LAB PVT. LTD.

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(An ISO-IEC 17025:2017/NABL Accredited Lab)

An ISO-IEC 17025:2017/ Accredited Laboratory

*"Precision in Testing, Confidence in
Construction. Your trusted partner
for all civil material testing."*





**National Accreditation Board for
Testing and Calibration Laboratories**

CERTIFICATE OF ACCREDITATION

SHREE ENGINEERING LAB PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

2/1904, KUDI BHAGTASNI HOUSING BORAD, JODHPUR, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number: TC-17417

Issue Date: 13/01/2026

Valid Until: 22/10/2028

This certificate supersedes the Certificate No. TC-14742 with issue date 23/10/2024 in view of change in premises of the laboratory.

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHREE ENGINEERING LAB PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer

ABOUT US

The Challenge: Every construction project faces a critical question: Will the materials perform as expected? Will the foundation support the load? Will the structure endure?

Our Solution: Since 2016, **Shree Engineering Lab** has been answering these questions for civil engineers, contractors, and construction departments across India. Through **NABL-accredited processes**, advanced equipment, and a team of certified engineers and senior technicians, we deliver more than test results. We deliver certainty.

The Partnership: We integrate seamlessly with your team, providing technical guidance, clear insights, and reliable data that inform every critical decision. With Shree Engineering Lab, quality testing today becomes structural confidence tomorrow.

OUR VISION

Our purpose is straightforward: to deliver accurate, timely testing results that form the foundation of safe, durable infrastructure. We understand that every structure whether it's a residential building, a commercial complex, or critical infrastructure depends on the integrity of its materials and the stability of its foundation. From soil investigation to material testing, we ensure that what lies beneath and what is built above meet the highest standards of safety and durability.

WHAT DO WE PROVIDE?

We test everything that goes into your construction project. Soil beneath the foundation, concrete in the structure, steel in the framework, and every finishing material in between—our comprehensive testing services ensure complete quality assurance from ground level to completion.

Comprehensive testing solutions across:

- Geotechnical Investigation lab tests
- Geotech complete site investigations
- Plate load tests, SPT, Pull out load tests
- SPT, ERT, Pile Integrity
- Concrete, Cement & Aggregates
- Steel & Metal Components
- Bitumen & Road Materials
- Masonry, Bricks & Blocks
- Wood, Timber & Finishing Materials
- Chemical Analysis & Water Quality
- Pipes, Tiles & Infrastructure Components
- NDT



Geotechnical Investigation
(Site Tests and Lab tests)



Soil Analysis & Strength Tests

Soil:

- Sieve Analysis
- Particle Size Analysis by Hydrometer, Silt factor
- Specific gravity
- Natural Moisture Content
- Liquid Limit, Plastic Limit, Shrinkage limit
- Free Swell Index
- Light Compaction Test (Maximum Dry Density & Optimum Moisture Content)
- Heavy Compaction Test (Maximum Dry Density & Optimum Moisture Content)
- Consolidation Test
- Swelling Pressure Test
- California Bearing Ratio (Lab CBR) Soak & Unsoak
- Soil & Sand Equivalent Test



Shear & Strength:

- Direct Shear Test - (UU / CU / CD)
- Triaxial Compression Test-Unconsolidated Undrained - (UU / CD)
- Triaxial Compression Test-Consolidated Undrained (CU) with Pore Pressure Measurement



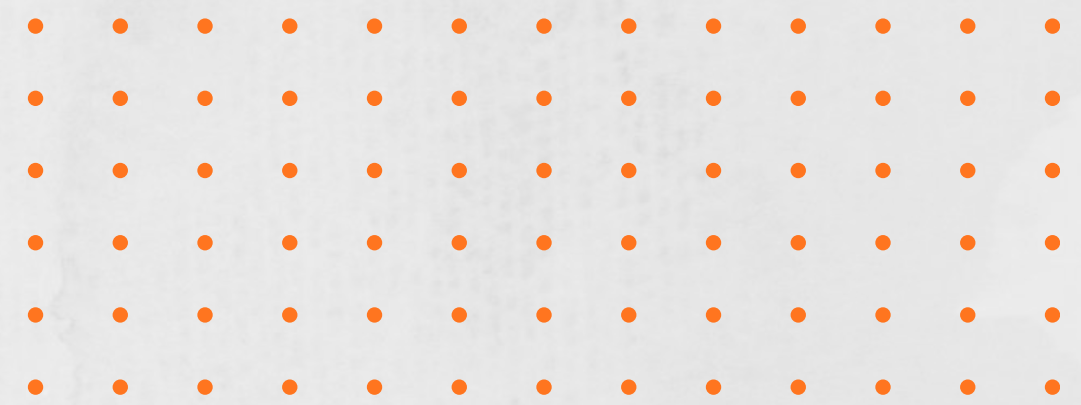
Bentonite and Rock Testing

Bentonite:

- Natural Moisture Content
- Sand Content
- Attenberg limits
- Finess dry
- Swellig pressure
- Consolidation Test

Rock and Building stone:

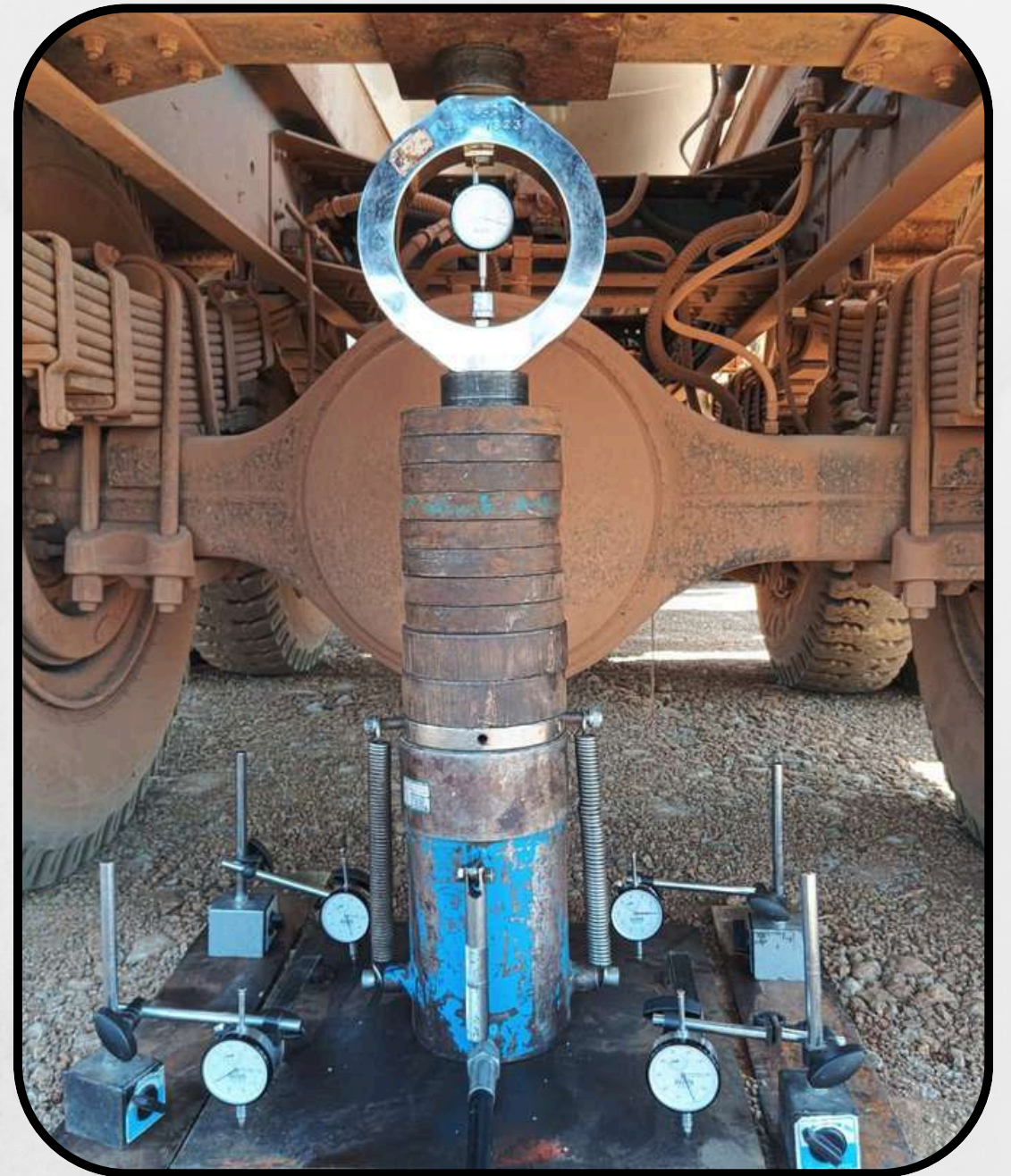
- Unconfined Compressive Strength
- Point Load Strength Index
- Water Absorption, Porosity Water Content
- Dry Density, Bulk Density, Relative Density
- Specific Gravity
- Modulus of Elasticity
- Poisson's Ratio
- Permeability Test of Rock Stones
- Dynamic Modulus of Elasticity
- Rock Hardness
- Compressive Strength of Natural Building Stones
- Tensile Strength of Natural Building Stones
- Transverse Strength of Natural Building Stones
- Peterograhic analysis



Field Testing and NDT

Field Tests:

- Standard Penetration Test
- Electrical Resistivity Tests
- Field Density Test (Using both Core cutter and Sand replacement method)
- Static/ Dynamic Cone Penetration Test
- Gas Pressure using Rapid Determination of Water Content from the Calcium Carbide
- Field California Bearing Ratio Test
- Measurement of Pore Earth Water Pressure



Load Tests:

- Static Vertical Pile Load Test
- Lateral Load Test
- Cyclic Pile Load Test
- Pile Pull-out Test
- Lateral Dynamic Pile Load Test
- Plate Load Test
- Stone Column Load Test
- In Situ Shear Test on Rock
- Anchor pull out test



Non Destructive testing (NDT) :

- Pile Integrity Testing
- Rebound Hammer Test
- Depth of Surface Crack Test
- Half Cell Potential Difference Test
- Carbonation Depth Test
- Depth of Surface Crack Analysis
- Ultrasonic Pulse Velocity Test
- Pull Out Bond Test



Geotextile/ Geogrid/ Geocell/ Geostrap Testing

- Mass unit per area
- Thickness
- Tensile strength
- Elongation
- Tear strength
- Puncture resistance
- Local Overstressing test, Peeling test, Splitting test of Geocell
- Geosynthetics, Membranes (HDPE/SBS/PU) & Boards:
- Tensile Strength & Elongation
- Puncture Resistance & Tear Strength
- Mass per Unit Area, Density & Thickness
- Peeling Test & Adhesion
- Softening Point (SBS)
- Carbon Black Content
- Thermal Conductivity (XPS Board)
- Shore A Hardness (Dimple Board)





MECHANICAL TESTING



Aggregates & Road Materials

Aggregates:

- Impact, Crushing, Abrasion
- 10% Fine Value & Stripping Value
- Polished Stone Value
- Petrographic examination
- Bulk density (Loose & Compacted)
- Soundness
- Flakiness Index
- Elongation Index

Bitumen & Bitumen Mix:

- Viscosity, Ductility, Softening Point.
- Specialized Emulsion tests (Residue by evaporation, Miscibility with water, Storage stability).
- Marshall stability, DBM/BC and other bituminous job mix evaluations.
- Elastic Recovery: Polymer Modified Bitumen (PMB) and Crumb Rubber Modified Bitumen (CRMB): Softening Point, Flash Point



Concrete & Cementitious Materials

Concrete & Grouting:

- Advanced Durability: Rapid Chloride Permeability Test (RCPT) and Water Penetration Depth.
- Strength: Mix Design (SCC, PQC, DLC)
 - Compressive Strength
 - Flexural Strength
 - Split Tensile Strength
- Workability (SCC): Specialized apparatus testing including U-Box, J-Ring, L-Box, V-Funnel, and Orimet.



Cement & Fly Ash (Raw Materials)

Cement:

- Standard Consistency
- Initial & Final Setting Time
- Soundness (Le-Chatelier Method)
- Fineness (by Dry Sieve & Blaine Air Permeability)
- Density



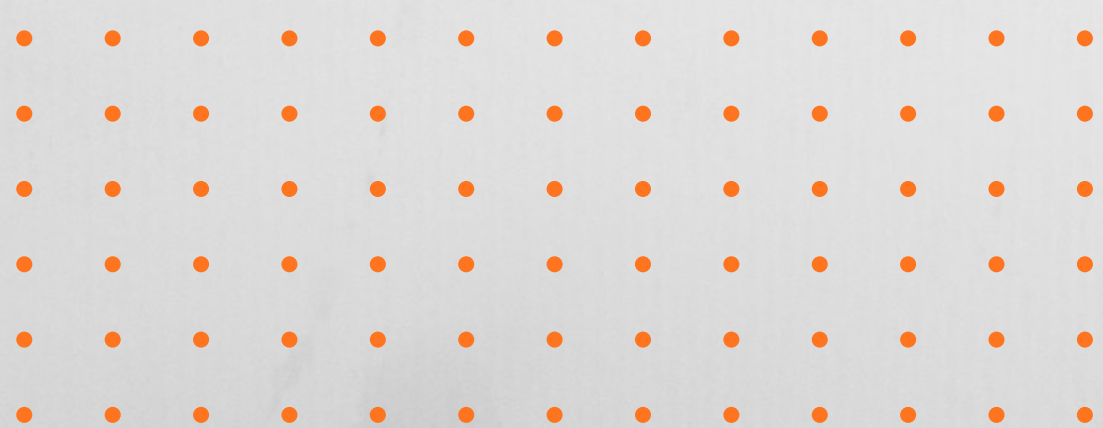
Fly Ash / Pozzolanic Material:

- Fineness by Sieving
- Soundness (Le-Chatelier)
- Specific Gravity
- Compressive Strength (Lime Reactivity)



Grout & Fluids:

- Grout expansion and flow tests.
- Grout material compressive strength.
- Grout material bulk and mixed density.
- Piling Bentonite slurry testing (Fineness, Sand Content, Swelling Power).



Building Materials & Components

Masonry, Stones & Wood:

- **Bricks & Blocks:** Testing for AAC Blocks (Drying Shrinkage, Density, Compressive Strength, Thermal Conductivity), Common Burnt Clay Bricks, Fly Ash Lime Bricks, Hollow/Solid Concrete Blocks.
- **Paver Blocks:** Abrasion Resistance, Compressive Strength, and Water Absorption.
- **Natural Stones (Marble, Granite, Kota):** Scratch Hardness, Modulus of Rupture, Dry Density, Moisture Content.
- **Doors & Wood:** Flush Door and shutter testing; Plywood/Particle Board resistance to Dry Heat.



Pipes & Tubing:

- **G.I. Pipes:** Testing for Nominal Mass, Thickness, and Outside Diameter.
- **Thermoplastic Pipes:** Density, Mean Outside Diameter, and Wall Thickness verification.

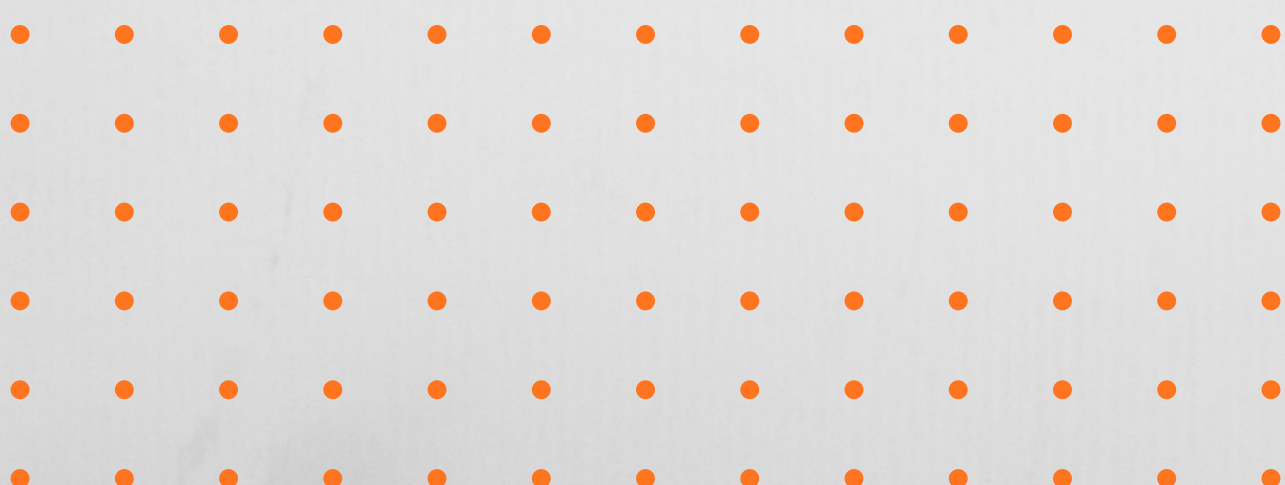


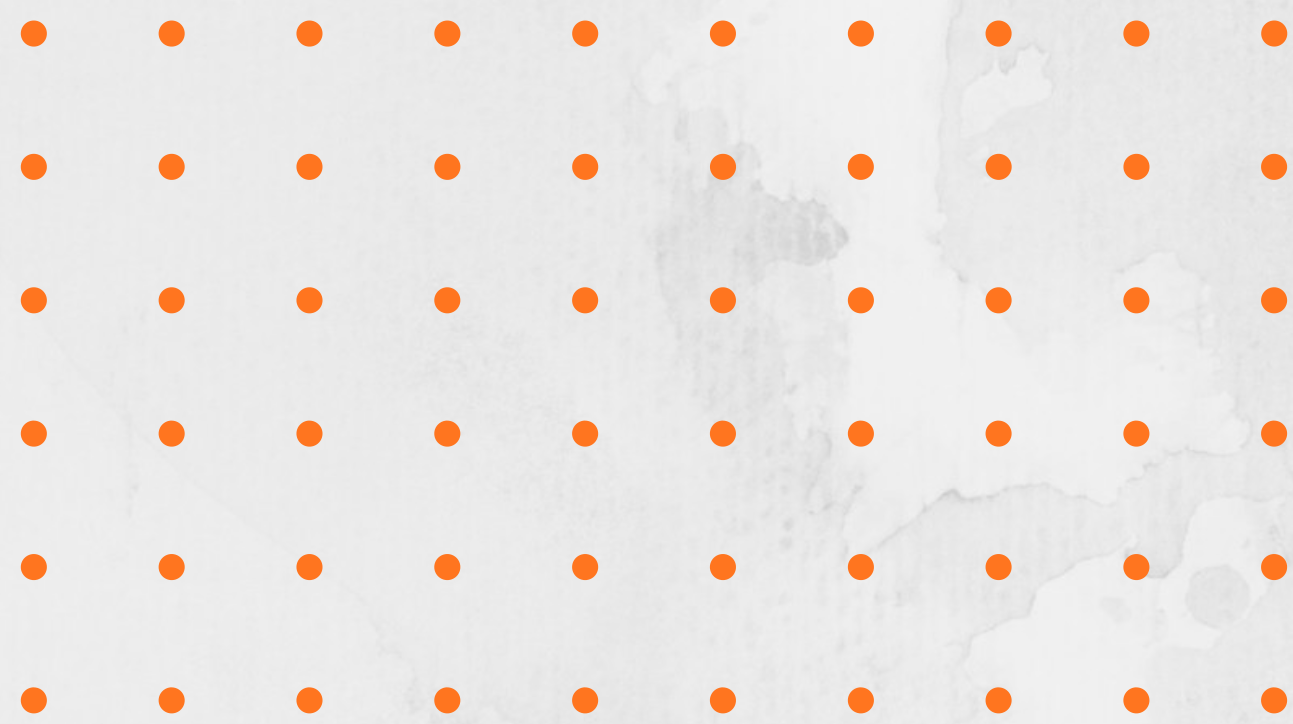
Flooring Tiles:

- Tiles including ceramic, glaze, vitrified tiles.
- Dimensions, Modulus of rupture, Breaking strengths, water absorption, and scratch hardness.

Performance Additives:

- Anti-stripping agents testing (Thermal stability, Coating ability, Flash point).





METALS AND ALLOYS



Metals and Alloys Tests

Aluminium:

- Elongation Testing
- Ultimate Tensile Strength
- Structural Steel
(Plates/Pipes/Sheet/Bars/Flats/Tubes):
- Charpy Impact, Izod Impact Test
- Vickers Hardness
- Bend Test
- Yield Strength

Reinforcement Steel/Low Alloy Steel:

- Elongation
- Bend Test
- Ultimate Tensile Strength
- Yield Strength
- Mass per Meter
- Re-Bend Test
- Total Elongation at Maximum Force

Stainless Steel:

- Elongation
- Brinell Hardness
- Rockwell Hardness
- Ultimate Tensile Strength
- Yield Strength/0.2 % PS

Weld Metal:

- Macro/ Micro Examination
- Elongation, Bend, Fracture, Tensile Strength Tests
- Transverse Tensile Strength
- Yield Strength

Prestressed Concrete Strands & Steel Wire:

- Nominal Mass (Seven-wire/Three-wire ply strand)
- Wire Diameter



Chemical Testing

Water:

- Full spectrum analysis including pH, Chlorides, Sulphates, TDS, and Hardness.
- Specialized testing for Fluoride, Free Residual Chlorine, Odour, and Organic/Inorganic solids.
- Wastewater analysis (BOD, COD, pH, Oil & Grease)

Admixtures & Environmental:

- Testing for Ash content, Chloride content, pH, Relative Density, Solid content.

Soil:

- pH Value, Chloride content.
- Determination of Total Soluble sulphate content (as SO_4 , as SO_3).
- Organic Content (Mass Loss on Ignition) & Inorganic Content.
- Organic Content & Inorganic Content Carbonate (as CO_2).
- Carbonate (as CaCO_3).
- Total Soluble Solids.



Chemical Testing

Cement and other cementitious material:

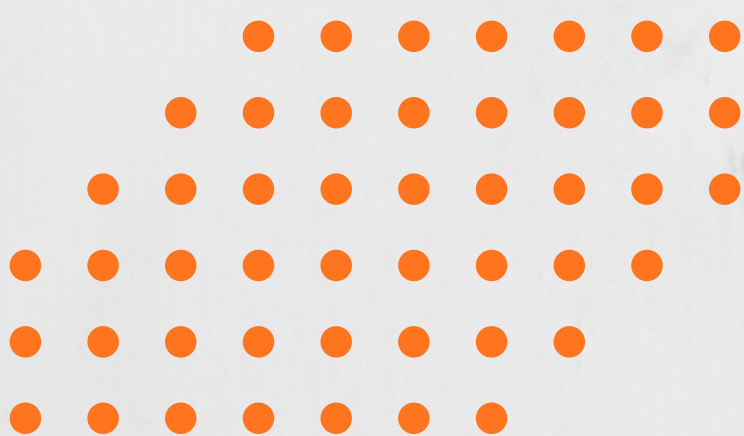
- Oxide analysis for Cement and Fly Ash/Microsilica.
- Complete chemical testing for Lime (CaO, Silica, Alumina, MgO) and GGBS/UGGBS (Slag).

Aggregates & Concrete:

- Alkali Aggregate Reactivity (AAR) testing (Dissolved Silica & Reduction in Alkalinity).

Metals and alloy:

- Elemental analysis for Carbon, Sulphur, Phosphorus, Chromium, Nickel, Copper, and Manganese.
- Specialized trace element analysis (Arsenic, Boron, Vanadium, Titanium).
- Stainless Steel: Dedicated analysis for Carbon, Chromium, Copper, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, and Sulphur.
- Mass of Zinc Coating tests for Galvanized items. Chemical Resistance testing for Glazed and Unglazed Ceramic Tiles.



Meet our Clients

We are proud to be the testing backbone for hundreds of projects across the region. While we value every partnership, the list below highlights some of our key corporate and government collaborations.



ADITYA BIRLA GROUP



STERLING & WILSON



Jodhpur Laboratory

Reach out to our Jodhpur Facility for inquiries, consultations, or to schedule a visit.

Call : +91 9799070222, 72300 10841

Email : shreelab.jodhpur@gmail.com

Visit : 2/1904, Sector 2, Kudi Bhagtasani Colony, Near Holy Angel School, Jodhpur, Rajasthan, 342005

Navi Mumbai Laboratory

Connect with our Navi Mumbai team for inquiries, consultations, or to schedule a visit.

Call : +91 92160 25401, +91 92160 25402

Email : shreelab.mumbai@gmail.com

Visit : ATC-22, Mahape midc TTC Industrial area, Mahape, Navi Mumbai, Maharashtra , 400710