

Awadhiya Consultancy & **Testing Laboratory Pvt. Ltd.** Govt. of India **Ministry of Science**

Accredited Laboratory

NABL (ISO/IEC 17025:2017) **Accredited Laboratory**



NABL

ACCREDITED FOR OVER

450

PARAMETERS



GEOTECHNICAL & GEOPHYSICAL INVESTIGATION **CONSTRUCTION MATERIAL TESTING & MIX DESIGN**

ADVISORY SERVICES

STRUCTURAL HEALTH ASSESSMENT

PAVEMENT INVESTIGATION **SPECIALIZED TESTING**

BUILDING MATERIAL CHEMICAL TESTING

ELECTRICAL & ELECTRONICS TESTING

FOUNDATION TESTING (Static/Dynamic Pile Load Test-PDA)



METRO & RAIL



HIGHWAY & STRUCTURE



AIRPORT



INDUSTRIES & REFINERIES WATER RESOURCE





RNENEWABLE ENERGY

MEMBER OF



www.actl.co.in actlsatna@gmail.com +91-7999154697 +91-8878415305

WELCOME

Awadhiya Consultancy & Testing Laboratory Pvt. Ltd.

AC&TL IS A PIONEER ORGANIZATION IN THE FIELD OF GEO TECHNICAL INVESTIGATION, SURVEY, BUILDING AND CONSTRUCTION MATERIAL TESTING & NON-DESTRUCTIVE TESTING OF CONCRETE STRUCTURES.

NABL (ISO/IEC 17025:2017)

Director - Dr. Neelamber Awadhiya (Phd. in Geotechnical Engineering)



This laboratory was established in May -2013, the groundwork had, already started in April-2013.

Director - Dr. Neelambar Awadhiya is the man behind this venture and a civil engineer by profession has all together different vision from the rest.

He is empaneled as GEOTECH consultant by the Govt. of M.P. The laboratory has professional team of highly skilled technical staff, experienced,

expert scientist and engineers. AC&TL has a well established office & is equipped with state of the art infrastructure with manpower in field-testing,

Non- Destructive testing of building & structures & testing of construction material required for civil projects.

The laboratory is spacious enough to accommodate all requisite testing equipment/apparatus/instruments and Staff.

The laboratory aims for expansion and diversification and reach to every nook and corner.

Vision

.To maintain its stature as an independent premier testing lab & research institute for product and process development. To orient its research towards progress of construction organization and society.

•To offer best analytical and R&D services to assist industry to attain highest standards of product quality

Mission

The mission of AC&TL is to provide civil engineering consultancy by geotech investigation and research services of international standard and evolve innovative technology for providing an optimal and practical solution to problems.



The Company Provides a broad spectrum of professional engineering and Science services wich include the following

- Soil Testing
- Bitumen Testing
- Sand Testing
- Cement Testing
- Concrete Testing
- Aggregate Testing
- Wood & Plastic Testing
- Mix Design
- Cube/Core Testing
- Bridge Load Testing (Dynamic & Static)
- Water Testing (Construction & Drinking)
- SBC Testing/SPT
- EV-2 and Plate Load Testing
- Paver and Cover Block Testing

- Brick, ACC Block, Stone, Tiles Testing
- TMT Bar and MS Plate, Pipe,

ISMB Beam Testing

- Pavement and Formation and Slop Design
- Pile Load Testing (Dynamic & Static)
- NDT Testing
- Fertilizer Testing
- Chemical Testing (All Material)
- Electrical Testing
- Survey
- DRP Preparation
- Building Planning
- Estimate & Valuation
- Project Management Consultancy
- Architectural & Structural Design

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TESTING | TECHNICAL ADVISORY | RESEARCH PARTNER | TRAINING | P.T. PROVIDER

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FOUNDED **IN 2013**

HALLMARK OF INTEGRITY AND ACCURACY IN TESTING

Contributing Quality Testing Services Towards Reliable Design & Construction and Durable Infrastructure

Zero Error

Shotest Delivery, TAT

100%Intefrity

Presence in 50+ Towns









- AC&TL Pvt. Ltd. is a leading multi-disciplinary Laboratory having best-in-class Laboratory Infrastructure with Advanced Automated Analytical Instruments and IT enabled Laboratory Analysis and Management System.
- The laboratory, built over 30,000 Sq. Ft., is temperature and humidity controlled with independent sections for Mechanical, Chemical and Non-Destructive Testing(NDT), Electrical & Electronics.
- Over 1 Decades, For Field Investigations, Laboratory Testing andmonitoring, the company has invested in a large fleet of Hydraulic & Rotary Drilling Rigs and Specialized Testing Equipment for Geotechnical & Geophysical, Non Destructive Testing, Construction Material Testing & Mix Design, Pavement Investigation, Pile Load Testing and other specialized testing services.
- AC&TL Pvt. Ltd. has achieved highest accuracy levels through constantmethod development and upgradation, regular participation in Proficiency Testing programs, stringent adherence to quality and calibration protocols, use of high quality CRMs & Columns.
- A competent team, empowered by continuous training and skills upgradation, works closely with client to provide customized interpretation and advisory services.

ACCREDITATION AND RECOGNITION











Rajiv Gandhi National Quality Award 2013, Govt. of IndiaNational Award - MSME 2012, Govt. of India



GEOTECHNICAL & GEOPHYSICAL INVESTIGATION

Geotechnical Investigation plays a major role in dealing with the ground condition and its respective engineering parameters required for various geotechnical design and recommendations in order to achieve sustainable infrastructure design &construction.

AC&TL Pvt. Ltd. Geotechnical & Geophysical Division offers its Unique Comprehensive Services with its best-in-class laboratory infrastructure, own fleet of over 50 Hydraulic and Rotary Drilling Rigs & well qualified Geotechnical Engineers and Geologists. **AC&TL Pvt. Ltd.** uses gINT, ReSSA and many in house softwares to provide value added analytics and customized foundation system recommendations. Established in 2013, **AC&TL Pvt. Ltd.** is proud to be associated with over 10,000 projects across the globe.













FIELD EXPLORATION

- Drilling in Soil & Rock (Auto Trip SPT)
- Permeability Tes
- Block Vibration Test
- Static and Dynamic Cone Penetration Test (SCPT/DCPT)
- Vane Shear Test
- Plate Load Test
- Pump Out Teste
- Pile Load Test

GEOPHYSICAL AND SPECIALIZED SERVICE

- Pressuremeter Test (Menard & OYO)
- Cross Hole & Down Hole Seismic Survey
- Seismic Refraction Survey
- Electric Resistivity Test
- Ground Improvement
- Slope Stability Analysis
- Liquefaction Assessment

LABORATORY TESTING (SOIL & ROCK)

- Strength Tests: Soil & Rock | Triaxial Test, Direct Shear Test
- Proctor Density Test
- Consolidation Tests
- Index Properties of soil
- Swelling & Collapse Potential
- California Bearing Ratio
- Crushing Strength
- Cerchar Abrasion
- UCS & Point Load Test
- Modulus of Elasticity & Poisson's Ratio
- Brazilian Tensile Strengthth
- Slake Durability
- Petrography
- Chemical Tests

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FOUNDATION TESTING (STATIC/ DYNAMIC PILE LOAD TEST-PDA)

Foundation Testing is a method to determine integrity and in-situ load bearing capacity of foundations by various conventional & high end advanced instruments.

AC&TL Pvt. Ltd. covering wide range of such testing & analytics services from conventional static pile load test to sophisticated dynamic pile load test (PDA), micro pile testing and pile integrity testing by both cross hole sonic logging and low strain integrity testing. Pile load test by dynamic method works on high strain dynamic principle.

These tests especially high strain dynamic pile load test (PDA) have gained extensive knowledge and expertise in providing fast, cost-effective and highly accurate results in accordance with national and international standards.













FOUNDATION TESTING

STATIC PILE LOAD TEST

- Kentledge Method
- Anchor Method
- Bi-directional Method
- Pile Pullout Teste
- Lateral Load Test

DYNAMIC PILE LOAD TEST

High strain Dynamic Pile
 Load Test (PDA)

CYCLIC PILE LOAD TEST

CROSS-HOLE SONIC LOGGING TEST (CHSLT)

LOW-STRAIN PILE INTEGRITY TEST (PIT)

MICRO PILE TEST

STATIC/CYCLIC PLATE LOADTEST

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CONSTRUCTION MATERIAL & MIX DESIGN

AC&TL Pvt. Ltd. is established for over 11 years offering comprehensive material testing services with one of the best-in-class laboratory; equipped with advanced automated instruments and IT enabled laboratory analysis and management system.

AC&TL Pvt. Ltd. has constantly updated analytical methods to achieve lower detection limits, transparency and traceability. With knowledge and insight of codes, regulations and standards, our engineers provide value added analytics and customized recommendations.













- Cement, Clinker
- Gypsum, Fly Ash
- Bitumen, Emulsion, Paving, Polymer, Rubber Modifiede
- Steel, Coupler, Structural Steel, Wire
- Rock, Soil, Aggregate, Sand, Ballaste
- · Bricks, Tiles, Stonese
- Blocks, Cubes, Kerb Stones,
 Pavers
- Concrete, RCPT, WPT
- Admixture, Bentonite
- Construction Water
- Water Proofing Compounds
- Plywood, Wooden Products
- Pipes, Pipe Fittings
- Concrete Mix Design
- Self Compacting Concrete Mix Designe
- Bitumen Mix Designe
- Sub Base & Base Design
- Durability Testing
- CNS Soil Design
- Soil Stabilizers

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GEOTECHNICAL & GEOPHYSICAL INVESTIGATION

AC&TL Pvt. Ltd. follows a well-structured quality system to provide specialist customized advisory for cost optimization and sustain ability; meeting national and international codes, regulations and standards. **AC&TL Pvt. Ltd.** deploys advanced in-house equipments for Non-Destructive Testing and Structural Health Assessment. Experts use IT enabled techniques to evaluate field data, properties of materials & components to determine quality, strength, Structural condition and suitable rehabilitation recommendations and other properties as per customer requirements.





NON DESTRUCTIVE TESTING FOR STRENGTH AND QUALITY ASSESSMENT

- Rebound Hammer Teste Half
- Cell Potential Metere
- Ultrasonic Pulse Velocity
- Carbonation (Corrosion)
- Pile Integrity Test (PIT)
- Crosshole Sonic Logging Teste
- Rebar Locator
- Ground Penetrating Radar





STRUCTURAL HEALTH ASSESSMENT & REHABILITATION RECOMMENDATION

- Remaining Life Analysis
- SHM & Aging Managemente
- Target Life Rehabilitation

STRUCTURAL STABILITY & BUILDING CONDITION SURVEY

INSTRUMENTATION & MONITORING





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PAVEMENT INVESTIGATION

AC&TL Pvt. Ltd. follows a well-structured quality system to provide specialist customized advisory for cost optimization and sustainability; meeting national and international codes, regulations and standards. **AC&TL Pvt. Ltd.** deploys advanced inhouseequipment for Pavement Investigation and structure/bridge load test to ascertain the strength, performance and durability of pavement & bridge and help in predicting their life.

Our Proficient engineers having experience in pavement investigation & design, assess the field data to provide accurate analysis & results that decide their designing, resurfacing and Rehabilitation.













PAVEMENT INVESTIGATION

- Falling Weight
 Deflectometer
- Benkelman Beam Deflection
 Test
- Bump Integrator Test
- Dynamic/Static Cone
 Penetration Test
 (DCPT/SCPT)
- Network SurveyVehicle(NSV)
- Bridge Load Teste
- Axle Load Survey
- Roughness Index Survey
- Retro Reflectometers
- Material Investigation
- CC &BC Core Cutting

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Empanelment Order/Letter



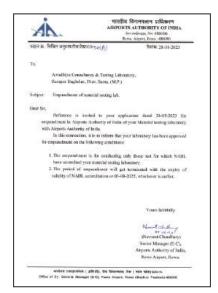




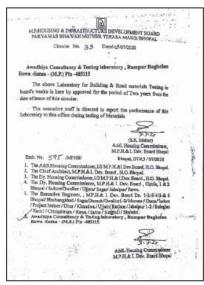








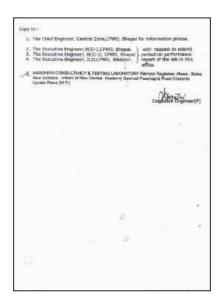




Empanelment Order/Letter





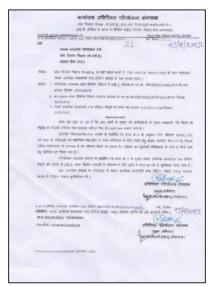


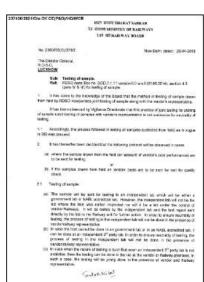
















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