



CEG TEST HOUSE

AND RESEARCH CENTRE PVT. LTD.

- ▶ ISO 17025 / NABL ACCREDITED
- ▶ BIS RECOGNIZED
- ▶ ISO 9001, 14001 & 45001 CERTIFIED



GEOTECHNICAL & GEOPHYSICAL INVESTIGATION

CONSTRUCTION MATERIAL TESTING & MIX DESIGN

NON-DESTRUCTIVE TESTING & STRUCTURAL HEALTH ASSESSMENT

PAVEMENT INVESTIGATION

SPECIALIZED TESTING

ADVISORY SERVICES

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



METRO & RAIL



HIGHWAY & STRUCTURE



AIRPORT & BUILDING



INDUSTRIES & REFINERIES



WATER RESOURCE



RENEWABLE ENERGY

🌐 www.cegtesthouse.com
✉ info@cegtesthouse.com
☎ +91-141-4046596-99, 2751801
+91-7073547333

TESTING | TECHNICAL ADVISORY | RESEARCH PARTNER | TRAINING

**FOUNDED
IN 1984**

HALLMARK OF INTEGRITY AND ACCURACY IN TESTING

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

**Zero
Error**

**Shortest
Delivery, TAT**

**100%
Integrity**

**PAN India
Services**



CEG Test House and Research Centre Pvt. Ltd (CEGTH), is one of the largest independent quality control testing laboratories in the country having well equipped multi-disciplinary Mechanical and Chemical laboratory testing facility for Geotechnical & Geophysical investigation, Construction materials, NDT, Job mix design, concrete mix design, Pavement Investigation, Pile Load Test etc. duly accredited by NABL (ISO/IEC 17025) for 500+ parameters (both field & lab testing). Since 1984, CEGTH has legacy and credentials built over 4 decades in testing services by serving many major government and private projects successfully for testing and related services.

CEGTH has constantly invested in modern and advanced equipment and adopted latest technique under Geotechnical Investigation and material testing labs, some of the highlights are presented below:

- Own fleet of 50+ Drilling Rigs (Hydraulic/Power Winch/Calyx/Auger).
- Drilling Capacity of up to 300 m depth.
- Having capacity to conduct even upto 1 Lakh + meter drilling in a year.
- Auto Trip SPT Hammer Application.
- Triple/Double tube core barrel & Mazier Sampling Facility.
- Specialized Tests Such as: Cone Penetration Test, Pressure meter Test, Seismic test, NDT & Pile Dynamic Load Test (PDA) etc.
- Usage of geotechnical software's such as gINT, CAPWAP, APILE, MIDAS, ReSSA and many in-house software's.
- NABL accreditation for all Field & Laboratory Tests - leading in such large NABL coverage facilities in India.
- CEGTH VALUE ADDITION: Specialized Recommendations & Advisory Services
- Well-qualified and experienced in-house team of geotechnical engineers and geologists (from reputed institutes such as IIT's & NIT's).
- Continuous Training and Paper Publications in Reputed Journals/conferences.

ACCREDITATION AND RECOGNITION



Rajiv Gandhi National Quality Award 2013, Govt. of India

National Award - MSME 2012, Govt. of India



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NON DESTRUCTIVE TESTING & STRUCTURAL HEALTH ASSESSMENT (NABL Accredited)

CEGTH follows a well-structured quality system to provide specialist customized advisory for cost optimization and sustainability, meeting national and international codes, regulations and standards. CEGTH deploys advanced in-house equipment 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 Test
- Half Cell Potential Meter
- Ultrasonic Pulse Velocity
- Carbonation (Corrosion)
- Pile Integrity Test (PIT)
- Crosshole Sonic Logging Test
- Rebar Locator/Profometer
- Ground Penetrating Radar

STRUCTURAL HEALTH ASSESSMENT & REHABILITATION RECOMMENDATION

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

STRUCTURAL STABILITY & BUILDING CONDITION SURVEY

INSTRUMENTATION & MONITORING

ISO/IEC 17025 NABL ACCREDITED FOR 500+ PARAMETERS (Both Field & Lab)

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GEOTECHNICAL & GEOPHYSICAL INVESTIGATION (NABL Accredited)

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

CEGTH-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. CEGTH uses gINT, ReSSA and many in house softwares to provide value added analytics and customized foundation system recommendations. Established in 1984, CEGTH is proud to be associated with over 10,000 projects across the globe.



FIELD EXPLORATION

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

GEOPHYSICAL AND SPECIALIZED SERVICES

- Pressuremeter Test (Menard & OY0)
- 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 Pressure
- California Bearing Ratio
- Cerchar Abrasion
- UCS & Point Load Test
- Modulus of Elasticity & Poisson Ratio
- Brazilian Strength
- Slake Durability
- Petrography
- Chemical Tests

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CONSTRUCTION MATERIAL & MIX DESIGN (NABL Accredited)

CEGTH is established for over 40 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.

CEGTH 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 Modified
 - Steel, Coupler, Structural Steel, Wire
 - Rock, Soil, Aggregate, Sand, Ballast
 - Bricks, Tiles, Stones
 - 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 Design
 - Bitumen Mix Design
 - Sub Base & Base Design
 - Durability Testing
 - CNS Soil Design
 - Soil Stabilizers

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

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

CEGTH 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
- Pile Pullout Test
- Lateral Load Test

BI-DIRECTIONAL METHOD

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)

STATIC/CYCLIC PLATE LOAD TEST

MICRO PILE CASTING & TESTING

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PAVEMENT INVESTIGATION (NABL Accredited)

CEGTH follows a well-structured quality system to provide specialist customized advisory for cost optimization and sustainability; meeting national and international codes, regulations and standards. CEGTH deploys advanced in-house equipment 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 Survey Vehicle (NSV)
- Bridge Load Test
- Axle Load Survey
- Roughness Index Survey
- Retro Reflectometers
- Material Investigation
- CC & BC Core Cutting

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