



# **SIRI GEOSOLUTIONS Pvt. Ltd.**

Civil & Geotechnical Engineering Services

## **Our Services**

- ▶ Geotechnical Investigaton
- ▶ Geotechnical Consultancy
- ▶ Materials Testing Services
- ▶ Geophysical & Non Destructive Testing Services
- ▶ Foundation Testing Services
- ▶ Topographical Survey Service
- ▶ Structural Design Services

# **Geotechnical Engineering Consultants**

### **Head Office**

#419, 4th Floor, Kubera Towers,  
Narayanaaguda, Hyderabad - 500 029



Call Us@  
**+91 9493372677**





## About The Company

Siri Geo Solutions Company is a leading engineering firm was established in the year of 2010. We have been providing comprehensive Civil & Geotechnical Engineering services and building material testing services across India for diverse projects including infrastructure, industrial, commercial, residential buildings, roads, railways, bridges, tunnels, dams, irrigation, renewable energy and mining.

Our team of professional engineers has an excellent understanding of engineering properties of soil and rock mechanics together with extensive practical experience in the field. While we tackle a broad range of geotechnical issues and providing cost-effective project solutions.



### Mission

Strive to be known for reliability and performance, providing exceptional value to clients, and working to continuously improve skill - sets to provide innovative solutions That's what Siri Geo Solutions stands for and that is what makes the company a trusted name.



### Success

Meeting the clients requirements on quality delivery by adopting the motto doing it right the very first time. Siri Geo Solutions knows that successful projects are the results of mobilizing a variety of resources, quickly and efficiently, for the completion of the job. And success evolves from a singular focus on 'Quality'

# Geo Technical Investigation

Before any structure is built, engineers need first to assess sub surface properties. This is to see if the ground is suitable and strong enough to safely begin construction of a building. The process is done through geotechnical investigation.

Geotechnical site investigation is vital in the construction process because it aims to understand and provide information on the site's subsurface conditions. Ultimately, this investigation seeks to understand the soil conditions below the surface.

Our geotechnical engineers seek to reduce this risk, by investigating and understanding the sites subsurface conditions, and it's behavior under different loading conditions.

## Our Services Included

- Onshore & offshore geotechnical exploration and evaluation
- Geotechnical Drilling including diamond core drilling
- Test Pitting and Augering
- Standard Penetration Testing
- Static & Dynamic Cone Penetration Test
- Seismic Testing
- Soil & Rock Core Sampling
- Field Vane Shear Test
- Field Permeability Test (Single & Double Packer Method)
- In-situ testing – Plate bearing test, CBR, in-situ density etc.
- Lime and cement grouting
- Installation of piezometers



# Geo Technical Consultancy

We offer comprehensive geotechnical consultancy services ranging from feasibility and design through to construction supervision. Early understanding of ground conditions can yield economy in design and construction and can prevent cost and time overruns.

At Siri Geo solutions, we pride ourselves on our ability to offer clients practical, cost-effective and innovative foundation solutions for underground construction, ground improvement, off shore and on shore problems of soil mechanics and rock mechanics, complex stability and landslide mitigation.

Our teams of geotechnical engineers and civil engineers have a extensive practical experience in different industry segments which ensures greater reliability of all engineering parameters.



We offer the following geotechnical consultancy services:

- Basic Geotechnical Engineering Services
- Geotechnical Interpretative Reports (GIR)
- Proof Checking, Peer Review of Third Party Foundation Designs
- Recommendation for the most suitable foundation type
- Ground Improvement Solutions
- Instrumentation and Monitoring Solutions
- Seismic Analysis and response to Liquefaction
- Embankment Designs
- Soil Structure Interaction (Finite Element Analysis)
- Analysis and design of deep excavations / shoring system like sheet pile, soldier piles with lagging, secant pile, soil nailing
- Design of Deep Excavation Support Scheme
- Design of soil nail system
- Slope Stability, Seepage Analysis

# Materials Testing Services

Siri Geo Solutions provide comprehensive and reliable construction materials testing services to provide our clients with test results which determine whether or not materials meet project specifications.

Our team of experienced inspection professionals has a thorough understanding of construction methods, enabling them to provide expert guidance on both new construction projects and existing buildings. Construction materials are tested in our laboratory, which has been accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL). Our physical and mechanical testing department is to provide detailed quantitative and qualitative test data.

## Our Materials Testing Services Include:

Soil & Rock - Index & Engineering Properties

Building material - Aggregates, Cement, Steel, Fly ash, Bricks etc.,

Mix design – Concrete & Bitumen

Chemical analysis of soil & water



## Soil Samples Testing

### Classifications Test

Grain size distribution

Atterberg Limits

Unit weight & Moisture content

Specific gravity

Free swell index

Shrinkage Test , etc.,

### Engineering Properties

Undrained shear strength of cohesive soil

Direct shear test

One Dimensional Consolidation Test

Compaction characteristics (light & Heavy), etc.,

### Rock Core samples Testing

Classifications Test

Water Absorption

Density and Porosity

Specific gravity , etc.,

Engineering Properties

Point load index

Unconfined Compression Test

### Cement & Concrete

Mix Design

Physical & Chemical Properties of Cement

Compressive strength (core / Cube)

Flexural Strength Test. etc.,

### Highway / Building Material

Job mix formula

Bitumen testing

Marshall stability

Structural Steel testing . etc.,



## Geo Physical & Non-Destructive Testing

Geophysical surveys have been applied for subsurface characterization and can be used to examine sub stratum / rock structures which are hidden to naked eye.

Non Destructive Testing (NDT) equipments are useful to determine quality of concrete. Our company has hands of experience in NDT and for geophysical test

Non Destructive testing to evaluate the structural integrity assessment

Siri Geo Solutions QA/QC department have systematic approach for condition assessment of structures starts with identification of adequate locations and number of tests required to assess in-situ strength, durability and safety to understand the real state of structure.

### Non- Destructive Testing Facilities :

- Ultrasonic Pulse Velocity Test
- Rebound Hammer Test
- Half Cell Potential Test
- Rebar locator Test
- Cover Meter Test
- Carbonation Test
- Core Extraction
- Chemical Test
- Pile Integrity Test (PIT)
- Crack Depth & Width
- Cross hole sonic logging test
- Assessment in Concrete

### Geophysical Surveys Testing Facilities

- Seismic refraction
- Electrical Resistivity Test





## Foundation Testing

In-situ load testing is the process of applying a force on foundation system (Shallow /Deep foundation) to assess the bearing capacity and performance of deep foundation.

These tests provide valuable understandings into the behavior of piles under various load conditions, helping engineers validate design assumptions and optimize foundation designs. Different types of load tests are conducted on piles, including static load tests, and dynamic load tests, each offering different advantages in evaluating factors like ultimate bearing capacity of soil, settlement, and overall structural integrity.



We have extensive experience in the design and testing of piles using all the above methods. We are able to provide testing services and carry out interpretation using all of the above methods.

- Static / Cyclic Pile Load Test
- Kentledge Method
- Anchor Method
- Lateral Load Test
- Pile Pullout Test
- Dynamic Pile Load Test
- High strain Dynamic Pile Load Test (PAD)
- Low Strain Pile Integrity Test (PIT)
- Static / Cyclic Plate Load Test
- Bridge Span Load Test

# Topographical Survey Service

Detail Surveys will often be requested by an Architect, Engineer, Planner when developing a property and will form the framework from which all future plans will be based.

A Detail Survey establishes the site boundaries, investigates any easements, restrictions, locates existing features on the site and on adjoining sites and determines levels. These levels are then used to create a Digital Terrain Model (DTM) and contours.

We offer innovative and cost effective solutions to meet your project requirements, engineering services, land development, mining services, industrial and infrastructure projects.

# Structural Design Services

We serve our customer with civil structural analysis and design of infrastructure, industrial and building projects. Our team of experienced structural engineers and drafting professionals providing consultancy services of preparation of detailed project reports (DPR) for building and infrastructure projects.





# Our Esteemed Clients



पश्चिम रेलवे  
Western Railway





# **SIRI GEOSOLUTIONS Pvt. Ltd.**

Civil & Geotechnical Engineering Services

## **Head Office**

#419, 4th Floor, Kubera Towers  
Narayanaguda, Hyderabad - 500 029  
Telangana.

☎ +91-9493372677

✉ consultancy.geo@gmail.com

## **Vijayawada Office**

# 48-16/35 New Maruthi Nilayam,  
Kamineni Nagar, Vijayawada - 520008

☎ +91-9676121324

✉ sirilabvja@gmail.com

🌐 www.sirigeosolutions.com

## **Vizag Office**

# 9-94, Shanthinikethan EM School,  
Ground Floor, Main Road, Naiduthota,  
Visakhapatnam - 530 047.

☎ +91-9441418641

✉ sirilabvsp@gmail.com

## **Tirupati Office**

#288, MIG, TUDA Quarters,  
Karakambadi Road , Tirupati - 517507  
Andhra Pradesh

☎ +91-9052587587

✉ sirilabtpt@gmail.com

