



Geo-Tech Services

SOIL INVESTIGATION, PILING, TUBEWELL BORING & ENGINEERING CONSTRUCTIONS



Geo Tech Services

The Scope of Services Offered by Geo Tech Services Include Planning of Geotechnical Investigation, Drilling, in-situ Testing, Laboratory Testing, Foundation Analysis and Design etc.



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ABOUT GEO TECH SERVICES

SOIL INVESTIGATION, PILING, TUBEWELL BORING & ENGINEERING CONSTRUCTIONS

TECHNICAL EXCELLENCE

Technical excellence is a core pillar of Geo Tech services driven by three key ideas:

Technical Excellence, Commitment to the Client, and Quality. These ideas ensure all engineering projects-from soil testing to foundation design-are completed safely, cost-effectively, and on schedule.

Our approach is built upon a philosophy of continuous improvement, client commitment, and high-quality solutions. We are here to help you articulate and implement this vision. To make these 3 ideas actionable for your team and clients, we align them into these specific focus areas:

- **Commitment to the Client:**

Placing the customer at the center of your operations, ensuring their needs always come first, and building long-lasting relationships.

- **Technical Excellence & Quality:**

Delivering rigorous, industrial-grade solutions that are sustainable over time and built to solve complex problems.

- **Continuous Improvement:**

Fostering an internal culture that embraces growth, innovation, and consistent refinement of your processes.

Objective:

To achieve outstanding stakeholder-results (the OUTPUTS and outcomes) and as such drive productivity, competitiveness, and sustainability.



ABOUT GEO TECH SERVICES

COMMITMENT TO CLIENT

Our business is built on relationships, and our clients will always be our top priority. We are steadfast in our commitment to our clients and their needs.

We'll do everything possible to offer you the best solution. We look at things from the customer's point of view and work hard to meet their needs.

QUALITY COMPLIANCE -OUR TOP PRIORITY

We are a premier Geotechnical and Geospatial Services firm dedicated to engineering the future from the ground up. Built on a foundation of trusted partnerships with civil developers, we provide the critical subsurface insights, soil testing and site investigations necessary to transform ambitious architectural visions into structurally sound realities.

CORE CAPABILITIES

- **Site Investigations:** Comprehensive subsurface exploration and risk mitigation.
- **Advanced Soil Testing:** High-precision laboratory analysis for structural integrity.
- **Geospatial & Surveying:** Accurate site mapping to streamline engineering workflows.

Our organization is built on client relationships. We remain steadfast in our commitment to understanding our client's perspectives and delivering optimal solutions that meet their evolving needs. In geotechnical engineering, compliance isn't just a legal checkmark-it is the foundation of structural safety and project viability. We operate under a strict, zero-compromise quality assurance framework where regulatory compliance and technical precision are our absolute top priorities.

Every soil sample, field test, and design recommendation is multi-verified against rigorous local and international engineering standards.

By making strict compliance our baseline, we eliminate structural liabilities, ensure seamless municipal permitting, and deliver flawless data that civil developers can build upon with total confidence.



COMPANY OVERVIEW

🌟 INNOVATIVE SOLUTIONS

Partner with Geo Tech Services to unlock data-driven insights, smart engineering innovations, and world-class technical support. Let's build your project together.

🔧 ENGINEERING & PRECISION FOCUSED

Delivering the highest standards of project safety and accuracy, our integrated team brings together top-tier Geotechnical Engineers, Geologists, Environmental Scientists, Geophysicists, Hydrologists, and Material Testing Experts.

🏠 BUDGET-OPTIMIZED SOLUTIONS, ALL UNDER ONE ROOF:

From deep drilling and advanced surveys to certified laboratory analysis and geo-environmental provide the complete project lifecycle under one roof.

We optimize your budget and streamline your timeline. We do it all !



OUR VISION & MISSION

OUR VISION

Geo Tech Services is proud to drive national development efforts. We are committed to pioneering, implementing, and scaling the latest engineering technologies alongside our valued patrons to build a more resilient infrastructure for the future.

We aim to lead the advancement of subsurface engineering through three core pillars:

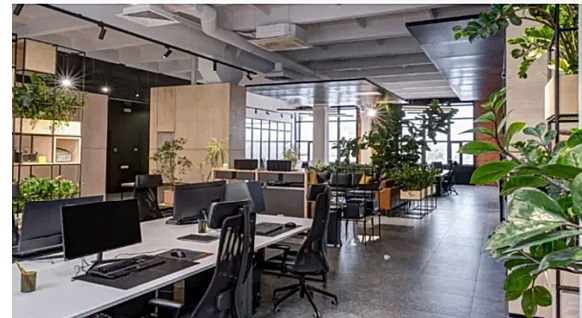
- **National Progress:**
Actively contributing to major structural and infrastructure development projects.
- **Technological Leadership:**
Standardizing the use of the latest innovative engineering tools and methodologies.
- **Patron Collaboration:**
Nurturing long-term partnerships built on shared success and technical support.

OUR MISSION

To champion project success and professional excellence through safe, innovative, and value-driven engineering solutions.

HOW WE DELIVER:

- **Client-First Focus:** We respond dynamically to unique project demands with cost-effective, premium services.
- **Uncompromising Safety:** We protect our teams and your jobsites with rigorous safety protocols.
- **Industry Leadership:** We solve complex subsurface challenges when exceptional service matters most.
- **People Growth:** We invest deeply in the personal and professional development of our specialists.



WATER RESOURCE MANAGEMENT

Geo Tech Services personals have vast experience in exploratory drilling, well design & constructions, under different sets of hydrogeological environments. Depending upon the physical environments of the area under investigation, we advise to our client the most appropriate method of drilling i.e. straight rotary, reverse rotary, percussion or combination of these for drilling water wells.

We focus on a cost effective approach in framing exploratory program (drilling depth & number of sites) and therefore drilling operation is carried with a complete understanding from updated available data and review of earlier works.

Our investigation methods are systematic with innovative technique of data collection and presentation that defines the geometry and type of aquifer and chemistry of waters encountered. We specialize in conducting differential water sampling and packer tests, from a borehole to establish groundwater quality profile and yield from different Aquifer zone.

Our services include well testing (constant discharge rate & multi rate) and make use of modern and sophisticated/ automatic recorders & software namely Logger Data Manager design by Schlumberger of Nether Land software for analysis of pump test data to gain reliable values of aquifer parameters. Keeping our track on rational development of groundwater for its sustained supply, our proposed designed wells are highly efficient, life long, economical, based on data analysis and selection of appropriate construction material.

- * Groundwater Assessment
- * Groundwater Modeling
- * GIS Data Base for Integrated Water Management
- * Source Water Protection Plans / Sustainability
- * Hydrology & Monitoring Network
- * Geo-Chemistry



FOUNDATION PILE TESTING

Geo Tech Services provides high quality testing services, we own and operate state-of-the-art equipments and computer software's. The systems we use are market leading brands and their reliability proven through thousands of field tests conducted every year both in local and international market.

We focus on a cost effective approach in framing exploratory program (drilling depth & number of sites) and therefore drilling operation is carried with a complete understanding from updated available data and review of earlier works.

Pile Testing Division is professional engineering domain of our esteemed organization which specializes in

- * Sonic Integrity Testing
- * Cross Hole Sonic Logging
- * Dimensional & 3 Dimensional Tomography
- * Single Hole Sonic Logging
- * High Strain Dynamic Pile Testing
- * CAPWAP Analysis
- * NDT Consulting Services

"OUR UNIQUE COMBINATION OF ADVANCE EQUIPMENT TECHNOLOGY AND PILE TESTING EXPERTISE HELP US TO BE MORE EFFECTIVE IN SERVING OUR CUSTOMERS"



GEOPHYSICAL INVESTIGATION

Geo Tech Services is a leading firm of independent geophysical consultants. Our geophysical surveys are carried out using a variety of geophysics methods for practical applications in site investigation, geo environmental surveys, electrical earthing and non-destructive testing.

Our company was one of the first Pakistani geophysical consultants to carry out geophysical surveys commercially. In the intervening years GTS have compiled a record of successful geophysical investigations by using the modern equipments and high level processing softwares within Pakistan and Abroad.

Our geophysical surveys are always carried out by highly qualified geophysicists. This allows problems to be solved on-site by customizing data acquisition to the highest levels of technical excellence. Following a comprehensive programme of data processing and interpretation by our team of experts, survey results are presented in an easy to understand engineering format.

Engineering geophysics surveys investigate the physical properties of the ground by the use of instrumentation, providing information on subsurface ground conditions not evident from the ground surface, for all types of practical engineering applications. Geophysical surveys are non-intrusive and non-invasive, and can help to avoid disruption that can be caused by drilling, pitting and trenching.

A geophysics investigation can cover large site areas rapidly to provide either reconnaissance data or a detailed investigation, and can optimize the targeting of any essential intrusive inspections. In environments where intrusive ground investigations are not possible, our geophysical surveys can still provide engineers with useful information. The main techniques used are:

- * Seismic Refraction survey
- * Multichannel Analysis of Surface waves (MASW)
- * Downhole/Crosshole Seismic Survey
- * Multi Electrode imaging/Electrical resistivity Tomography (2D)
- * Vertical Electrical Sounding (VES)
- * Thermal Conductivity
- * Borehole Geophysical logging / SP / SPR / Natural Gamma / Density
- * Well Videography



GEOTECHNICAL INVESTIGATION

Geo Tech Services is emerging as a Leading and Cost Competitive Geotechnical Investigation company for business and industrial site planning, design and construction.

Our range of Geotechnical works include:

Field Testing comprising of:

- * SPT
- * CPT
- * Drilling
- * Coring
- * Dilatometer Testing
- * Pressure Meter Testing
- * Plate Load Testing
- * Relevant Lab Testing
- * Chemical analysis
- * Insitu-Geotechnical Investigations

To determine the dynamic elastic properties of sub-surface lithologic layers, following methods are used:

- * Cross Hole Seismic Survey
- * Down Hole Seismic Survey
- * Gamma-Gamma Density Logging
- * Vane Share
- * Surface P/Shear wave vel surveys
- * Borehole inclinometer surveys
- * Thermal Conductivity Survey



DRAINAGE INTEGRITY TESTING

To have an assurance that the portions of a drain or sewer that are meant for the waste, process or storm water flows are in a condition to prevent water transmission to the exterior is the main goal of any drainage network developer / owner. Similarly the drainage network (i.e. drains, sewers, manholes, collection pits) and auxiliary components (i.e. manhole covers, grating, slope, material of construction etc.) should be designed and constructed in such a way to achieve the disposal of all design flows at self-cleansing velocity for the whole design period.

To evaluate these purposes of the constructed drainage network, drainage integrity testing is done.

Following are the main activities performed during drainage integrity testing.

- * Reconnaissance Survey
- * Topographic Survey
- * TPreliminary Evaluation / Vetting of the Existing Drains / Sewers
- * Leakage Testing
- * Final Evaluation Report



ENVIRONMENTAL STUDY

The Environmental Engineering Division of Geo Tech Services is providing services to various industries such as Environmental approvals, Environmental Impact Assessment (EIA), Initial Environmental Examination (IEE), analytical monitoring & wastewater treatment systems.

The firm operates in an environment, which is fully supported by the following Pak-EPA certified laboratories:

- * Environmental Consultancies and Options (Pak-EPA certified)
- * Pak Green Laboratories (Pak-EPA certified)
- * Seal Laboratories (Pak-EPA certified)
- * SGS Pakistan (Pvt) Limited


Core Competencies:

- * Ambient Air Monitoring
- * Compressed Air Monitoring
- * Stack Emissions Monitoring
- * Vehicular Emission Monitoring
- * Weather Monitoring
- * Waste Water Analysis
- * Drinking Water Analysis
- * Soil Testing
- * Initial Environmental Examination (IEE) Report
- * Environmental Impact Assessment (EIA) Report
- * Social Soundness and Impact Assessment (SSIA) Report
- * Strategic Environmental Impact Assessment (SEIA) Report
- * Environmental Compliance Report/Audit Report




CONTACT AND SUPPORT

CONTACT INFORMATION

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SUPPORT OPTIONS

Available 24x7 Assist With All Queries

Qualified Staff ready to solve technical issues.

