

Company Profile

PT. GEO SINERGI UTAMA

*Your Trusted Partner in Soil &
Geotechnical Testing.*



**GEOSYNERGY
SOLUTION**

Certified Company Under
PT. GEO SINERGI UTAMA :



Website

www.geosynergy-solution.com



Commitment to Quality Data Accuracy

PT Geo Sinergi Utama is fully committed to upholding the highest standards of quality and data accuracy in every laboratory testing process. All testing procedures are carried out in accordance with international standards such as ASTM and BS, supported by advanced equipment and experienced professionals. We continuously evaluate and upgrade our facilities to ensure every test result provides accurate and dependable data for critical technical decisions.

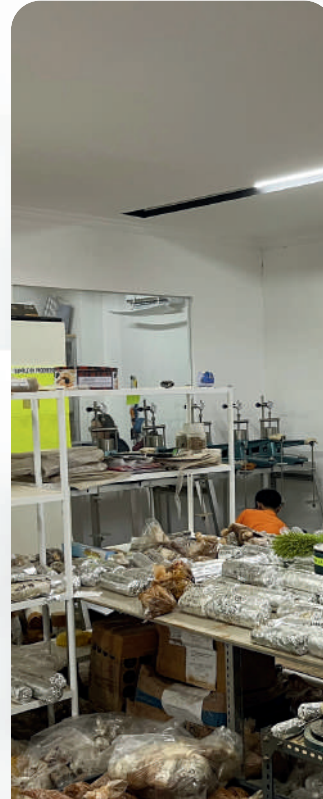
The Vital Role of Laboratories in Infrastructure and Mining Projects

Laboratory testing plays a crucial role in supporting infrastructure and mining projects by providing essential technical insights into soil and rock conditions. PT Geo Sinergi Utama is dedicated to delivering reliable geotechnical data that helps reduce technical risks and ensures smooth execution of construction and exploration activities.

About Us

Established in 2019,

PT. Geo Sinergi Utama is committed to provide high quality soil testing laboratory based on international standard procedures, which include the ASTM Standards. Our laboratory is also equipped with high standard soil testing equipment. Our service includes but not limited to soil classification, soil strength and chemical. We are also committed to continuously develop and update our laboratory facility and standard.



OUR OFFICE



Location : South Jakarta - DKI Jakarta - Indonesian

Company Name : PT. GEO SINERGI UTAMA
Company address : Geosynergy Solution (PT. GEO SINERGI UTAMA) Lt 28,
Talavera Office Park, Jl. TB Simatupang Kav. 22-26 Cilandak Barat
Jakarta Selatan, Prov. DKI Jakarta Kode pos : 12430
Phone Number : 021 - 8047 - 2095
WhatsApp : +62 822-4973-7895
Email address : contact@geosynergy-solution.com

OPERATION & LABORATORY



Location : Cibubur - West Java - Indonesia

Company Name : PT. GEO SINERGI UTAMA
Company address : Komplek Pergudangan Commpark Kota Wisata Blok B.02, Kota Wisata
: Cibubur, JL. Narogong Cileungsi, Kec.Cileungsi Bogor Jawa Barat
Kode Pos 16820
Phone Number : 021 - 8047 - 2095
WhatsApp : +62 822-4973-7895 / +62 813-1986-2242
Email address : e.hadisetyanti@geosynergy-solution.com



OPERATION & LABORATORY



Location : Kendari - Southeast Sulawesi

Company Name : PT. GEO SINERGI UTAMA
Company address : Komplek Ruko Achmad Yani Square Blok C.12
Kota Kendari, Provinsi. Sulawesi Tenggara
Kode Pos 93111
Year Established : 2019
Phone Number : +62 878-8878-2801 / +62 813-8085-0901
Email address : e.hadisetyanti@geosynergy-solution.com/kendari.laboratory@gmail.com



Geotechnical Soil and Rock Laboratory

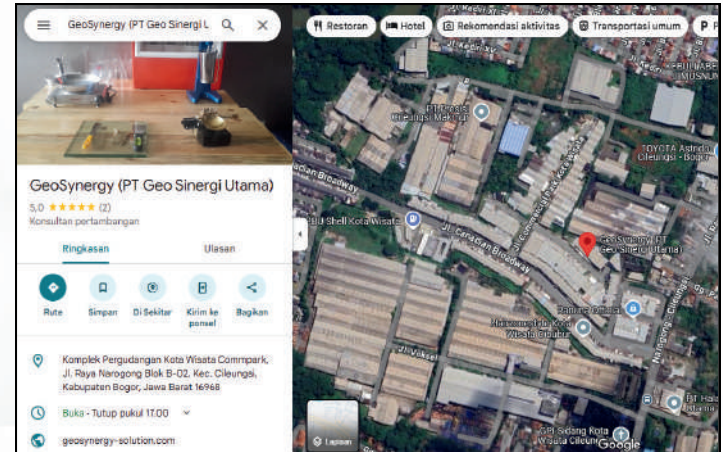
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Location Laboratory : Kota Wisata Cibubur, Cileungsi, Kab.Bogor. Indonesian.



Google Maps



Address : Komplek Pergudangan Comppark Kota Wisata Blok B.02, Kota Wisata Cibubur, JL. Narogong Cileungsi, Kec.Cileungsi Bogor Jawa Barat Kode Pos 16820

Email : contact@geosynergy-solution.com

Phone : 021 – 8047 – 2095

WhatsApp : +62 822-4973-7895

Website : www.geosynergy-solution.com

PT. GEO SINERGI UTAMA Laboratory Kendari Branch

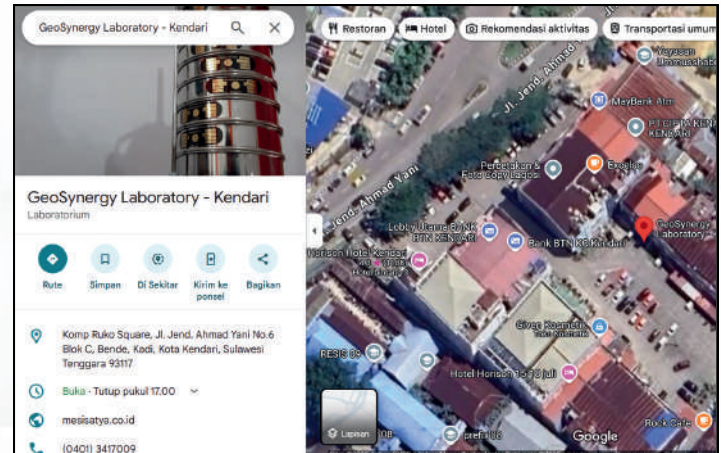
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Location Laboratory : Ruko Ahmad Yani Square Blok C No.6, Kota.Kendari, Southeast Sulawesi. Indonesian.



Google Maps



Address : Komplek Ruko Ahmad Yani Square Blok C No.6
Jl. Jendral Ahmad Yani Kendari - Southeast
Sulawesi
Kode Pos 93117

Email : lab.kendari@geosynergy-solution.com

Phone : +62 401 - 3417 - 009

Website : www.geosynergy-solution.com

Certificate & Legality

PT GEO SINERGI UTAMA

DEED OF ESTABLISHMENT AND OTHER PERMITS



UKAS ISO 9001: 2021

KAN ISO 9001: 2021

PT. Geo Sinergi Utama has been officially certified with ISO 9001:2015 for its Quality Management System, demonstrating its commitment to international standards in delivering consistent and high-quality services. The certification covers geotechnical services, environmental services, hydrogeology services, as well as instrumentation and soil testing laboratory operations. The company holds two valid certifications: one issued by Bureau Veritas Certification Holding SAS - UK Branch, accredited by UKAS (United Kingdom Accreditation Service), the other issued by PT Bureau Veritas Indonesia, accredited by KAN (Komite Akreditasi Nasional - Indonesia), These certifications affirm PT. Geo Sinergi Utama's adherence to global and national quality standards, ensuring reliable, professional, and continuously improved services.



GEOSYNERGY
SOLUTION

OUR MISSION

- To deliver high-quality laboratory testing services based on internationally recognized standards (ASTM, BS, and SNI), ensuring accurate and dependable results.
- To support our clients with reliable geotechnical and environmental data that contribute to the success of infrastructure, mining, and construction projects.

- To continuously invest in advanced testing equipment, skilled human resources, and the development of modern laboratory facilities.
- To uphold integrity, professionalism, and a client-oriented approach in every aspect of our operations.
- To contribute to sustainable development by promoting best practices in soil and material testing across industries.

OUR VISION

"To be a trusted and leading geotechnical laboratory in Indonesia, recognized for our commitment to accuracy, reliability, and continuous innovation in supporting national infrastructure and mining development."

OUR GOALS

"Our goal is to be a trusted geotechnical laboratory by providing reliable testing services and supporting sustainable development in infrastructure and mining."



**GEOSYNERGY
SOLUTION**

Reability

We provide dependable data to support critical decisions in infrastructure and mining projects.



Innovation

We embrace continuous improvement and invest in modern equipment and technology to stay ahead.



Integrity

We conduct every aspect of our work with honesty, accountability, and transparency.



Precision

We ensure accuracy in every test result by following international standards such as ASTM and BS.



Client Commitment

We prioritize client satisfaction by delivering consistent quality and responsive service.



Values



**GEOENERGY
SOLUTION**

Our Services

Laboratory Testing

We provide high-quality soil testing services in accordance with international standards, particularly ASTM standards. Our laboratory conducts comprehensive testing including soil classification, physical properties, chemical composition, and strength analysis to support geotechnical, environmental, and construction needs.

Mechanical Testing

Mechanical testing at Geo Lab checks how strong and stable soil and rock are for construction. We test materials to help design safe foundations, roads, and structures using reliable tools and trusted standards.

Laboratory Training

We offer training programs designed to enhance technical skills and knowledge in laboratory testing. Our training covers both theoretical and hands-on practical aspects, ideal for students, professionals, and technicians seeking to improve their expertise in soil and material testing.

Laboratory Equipment Sales

We also supply a wide range of laboratory equipment for soil, geotechnical, and environmental testing. Our products meet industry standards and are suitable for academic, research, and professional use. We provide consultation and after-sales support to ensure customer satisfaction.

➤ Laboratory Testing



Organic Content



Hydrometer



Specific Gravity



Water Content Of Soil



Carbonate Content



Sieve Analysis

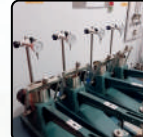


Atterberg Limit

The Standards used for soil physical classification are as follow :

- Water Content Of Soil - ASTM D2216-01
- Particle Size Distribution & Hydrometer - ASTM D422-62
- Particle Size Distribution & Hydrometer - ASTM D421-85
- Specific Gravity - ASTM D854-02
- Atterberg Limit & Plastic Limit - ASTM D4318
- Organic Content - ASTM D2974 - 14
- Carbonate Content - ASTM 4373 - 02

➤ Mechanical Testing



Consolidation/Oedometer Test



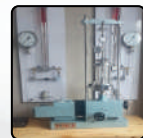
Simple Direct Cyclic



Permeability Test



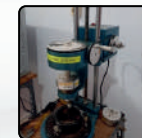
UCS



Triaxial Machine



Direct Shear



Mini Vane Shear



Triaxial Cyclic

The Standards used for soil physical classification are as follow :

- Unconfined compression test for soil - ASTM D2166-06
- Direct shear CD - ASTM D3080-04
- Consolidation - ASTM D2435-04
- Triaxial UU - ASTM D2850-3a
- Triaxial CU single - ASTM D4767
- Triaxial CD - ASTM D7181
- California Bearing Ratio - ASTM D1883 / SNI 1738-2011
- Point Load - ASTM D5731
- One Dimensional Swell or Settlement Potential Cohesive Soils - ASTM D4546-96
- Compaction Characteristics of Soil Using Modified Efforts - ASTM D1557 Standard Compaction Characteristics - ASTM D698
- Unconfined Compressive Strength and Elastic Modulus of Intact Rock - ASTM D7012
- Shear Test - BS1377-7:1990
- Sandcone Test , For Insitu Testing
- Triaxial Cyclic
- Simple Direct Cyclic

Laboratory Testing

Classification and Physic Testing Classification

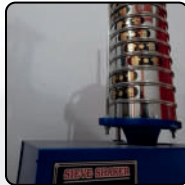


The Standards used for soil physical classification are as follow :

- Water Content Of Soil – ASTM D2216-10
- Particle Size Distribution & Hydrometer – ASTM D422-62
- Particle Size Distribution & Hydrometer – ASTM D421-85
- Specific Gravity – ASTM D854-02
- Atterberg Limit & Plastic Limit – ASTM D4318
- Organic Content – ASTM D2974 – 14
- Carbonate Content – ASTM 4373 – 02



Carbonate Content



Sieve Analysis



Water Content Of Soil



Organic Content



Hydrometer



Specific Gravity



Laboratory Bogor



Atterberg Limit

Mechanical Testing

Classification and Physic Testing Classification



The Standards used for soil mechanical classification are as follow :

- Unconfined Compression Test for Soil – ASTM D2166-06
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- Unconfined Compressive Strength and Elastic Modulus of Intact Rock – ASTM D7012
- Shear Test – BS1377-7:1990
- Sandcone Test , for Insitu Testing



Oedometer Test



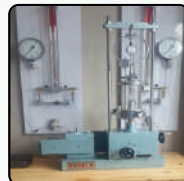
Consolidation



UCS



Permeability Test



Triaxial Machine



Direct Shear



Mini Vane Shear

► Triaxial Cyclic



"The triaxial cyclic test is performed using specialized laboratory equipment"

INTRODUCTION

This test method covers the determination of the cyclic strength (sometimes called the liquefaction potential) of saturated soils in either intact or reconstituted states by the load-controlled cyclic triaxial technique.

Apparatus

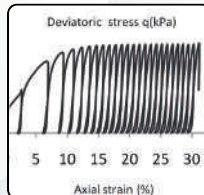
- Triaxial Compression Cell
- Dynamic Loading Equipment
- Recording Equipment
- Valves
- Weighting Device
- Water Deaeration Device
- Testing Environment
- Miscellaneous Apparatus



Triaxial cyclic test



Measuring the specimen



Triaxial cyclic test

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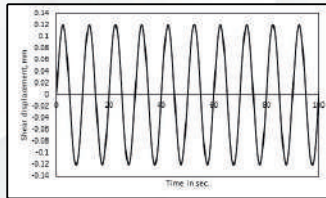
➤ Simple Shear Cyclic



The testing process is carried out using a Simple Shear Cyclic apparatus to evaluate soil behavior under cyclic loading conditions.



Simple Shear Cyclic



Strain Control Cyclic Simple Shear Testing

INTRODUCTION

Cyclic Simple Shear test is used to investigate the dynamic behavior of soils. It has some advantages over the cyclic triaxial testing as loading mechanism better simulates the earthquake conditions. Also the consolidation is anisotropic thereby simulating the at rest conditions in the field. The test is used to study the cyclic response of both the fine grained and coarse grained soils. The cyclic behavior can be investigated either by keeping the vertical stress constant or consolidated height constant during the cyclic loading.

CONCEPT

Cyclic simple shear test has been predominantly used to study the liquefaction characteristics under constant volume drained conditions wherein the any change in normal stress is equivalent to the change in effective stress and is equal to the excess pore water pressure that would occur in an otherwise truly undrained test. Dynamic properties are evaluated in either undisturbed or reconstituted states by using either stress or strain controlled cyclic simple shear device.

Equipment Laboratory Testing



Carbonate Content



Sieve Analysis



Water Content Of Soil



Organic Content

Phone

+62 813-1986-2242

Email

e.hadisetyanti@geosynergy-solution.com

Website

www.geosynergy-solution.com



Atterberg Limit



Specific Gravity



Hydrometer

Equipment Mechanical Testing



GEOSYNERGY
SOLUTION



Oedometer Test



Consolidation



UCS



Permeability Test



Triaxial Machine



Direct Shear



Mini Vane Shear

Phone

+62 813-1986-2242

Email

e.hadisetyanti@geosynergy-solution.com

Website

www.geosynergy-solution.com

PROFESSIONAL TEAM

"The following is a team of experienced and certified laboratory professionals."

IE Andre Irawan , B.Eng, M.Eng, M. Engineers Australia

Andre is the director of Geosynergy Solution. Obtaining his postgraduate degree in Engineering Science from Monash University, Australia, he is an environmental consultant with over 15 years experience in the region of Australia and Indonesia. He has been involved in Phase II and III of large scale contaminated soil and groundwater projects while working in Melbourne. He was also the process engineer for a Groundwater Extraction System (GWES) on one of the sites there. He has managed and conducted Phase I and II Soil and Groundwater Investigation Studies and Environmental Impact Assessment for several manufacturing facilities and oil & gas companies in Jakarta, Indonesia.



DIRECTOR

Ir. Alexander Dian, B.Eng, M.AusIMM, M.ISSGE

Alexander Dian is an experienced geotechnical engineer with 17 years' experience in geotechnical and geological engineering for the civil facilities, mining and offshore oil & gas industries. His experience covers site investigation, geotechnical mapping, geotechnical and tunnelling instrumentation, insitu testing, geohazard surveys, geotechnical design for open pit, mining infrastructure, dams, deep foundation design and review, pipeline routes, offshore structures and jetties. Alexander Dian has geotechnical and geological experience in coal, laterite nickel, gold and copper, as well as offshore marine sediments, at various locations across Indonesia, Southeast Asia, Australia and the Middle East.



MANAGER

Exta Hadisetyanti. B.Eng

Exta is a senior geotechnical consultant with 17 years of experience specializing in soil and rock laboratory testing. She has a strong background in earthwork construction and open-pit mining, particularly for nickel laterite and coal commodities. Exta possesses excellent skills in quality control and quality assurance of laboratory data and has demonstrated significant growth in conducting field investigations and in-situ testing.



MANAGER



Certificate Of Expertise

Exta Hadisetyanti. B.Eng

laboratory manager of PT. Geo Sinergi Utama

This certificate formally acknowledges that Exta Hadisetyanti has been assessed and declared competent in the field of Construction Services, with a professional qualification as an Associate Geotechnical Expert (Ahli Madya Geoteknik).

Issued by the Geoteknik Indonesia Professional Certification Agency (LSP Geoteknik Indonesia) under the authority of the Indonesia Professional Certification Authority (BNSP), this certificate signifies Level 8 competency in the Geotechnical and Foundation (Geoteknik dan Pondasi) sub-classification of Civil Engineering (Sipil).

The certificate, registered under number 74321 2142.99 8 00000237 2024, was enacted in Jakarta on August 28, 2024, and is valid for five (5) years.

Verification of the certificate and its details can be conducted through the Integrated Construction Services Information System using the embedded QR code and registration number.



Our Client

Here are some of the companies that use our laboratory products and services.



Operational Workflow and Quality Assurance



1 Client

The client submits a request and provides samples for testing.

2 Laboratory

Samples are received and prepared for testing.

3 Testing

Samples are tested according to ASTM/BS standards by lab technicians.

4 QC (Quality Control)

Test results are reviewed by the Quality Control team to ensure accuracy.

5 Report

Final test reports are prepared and delivered to the client.

Gallery Activity

"This gallery features documentation of our field and laboratory activities, along with internal training sessions conducted for our staff."

Our activity gallery showcases various moments from our laboratory operations, field testing, equipment calibration, staff training, and client engagements. Each image reflects our dedication to precision, safety, and professionalism in delivering high-quality laboratory and consulting services. From geotechnical soil sampling in the field to rigorous mechanical testing in our laboratory, we document our commitment to operational excellence and continuous improvement. This gallery also highlights collaborative sessions with clients, internal team development, and on-site project visits—providing a transparent view into the values and standards that drive our services every day.



PARTNER WITH US

If you are seeking reliable geotechnical testing services that adhere to the highest standards, we invite you to partner with PT Geo Sinergi Utama. We are ready to support your infrastructure and mining projects with dependable data and professional solutions.

THANK YOU

We truly appreciate your interest in our services. Your trust is our motivation to continuously deliver high-quality results and maintain long-term professional relationships.

CLIENT BENEFITS

- ✓ Advanced Equipment - We utilize high-quality, calibrated testing instruments for precise results.
- ✓ Expert Team - Our staff consists of experienced professionals in soil and rock testing.
- ✓ Comprehensive Services - Covering geotechnical, geological, and environmental testing.
- ✓ Timely Reporting - We commit to delivering results within the agreed timeline.
- ✓ Reliable Data Support - We help reduce risks and increase decision-making confidence in your projects.



**GEOSYNERGY
SOLUTION**



➤ Contact Us

Operation & Laboratory

Komplek Pergudangan Commpark Kota
Wisata Blok B-02 Kota Wisata Cibubur
Jl. Narogong Cileungsi, Kec. Cileungsi
Bogor, West Java
Kode Pos 16820
Telp/Fax : 021 – 8047 – 2095
Email : soil.lab@geosynergy-solution.com

Kendari Office

GeoSynergy Solution (PT. Geo Sinergi
Utama) Komplek Ruko Ahmad Yani Square
Blok C No.6 Jl. Jendral Ahmad Yani Kendari
- Southeast Sulawesi
Kode Pos 93117
Telp/Fax : +62 401 - 3417 - 009
Email : lab.kendari@geosynergy-solution.com

Administration Office

GeoSynergy Solution (PT. Geo Sinergi
Utama) Level 28, Talavera Office Park Jl. TB
Simatupang Kav. 22 - 26 Cilandak Jakarta
Selatan
Kode Pos 12430
Telp/Fax : 021 – 8047 – 2095
Email : contact@geosynergy-solution.com