



drilling & geotechnical

SOIL INVESTIGATION AND LABORATORY TESTING



What is Soil Investigation?

Soil investigation is a method to gain data and analyse geological and geotechnical conditions for various purposes such as foundation design, mining exploration, slope stability, road construction, etc.

Our service covers coring and non-coring drilling and in-situ testing, such as Standard Penetration Test (SPT), Cone Penetration Test (CPT), Field Vane Shear Test and Permeability Test.

Our service also provides disturbed and undisturbed samples to soil laboratories for analysing index and engineering properties such as:

- Water content,
- Density test,
- Particle size grading,
- Atterberg limits,
- Specific gravity, etc

Advantages

Geotechnical investigation and exploration provide accurate data that serves as a critical input for structural design. These measurements ensure that every aspect of the project is based on reliable subsurface information.

- Project owners can ensure their buildings are structurally stable and durable for long-term use.
- Engineering consultants also benefit by being able to deliver precise and appropriate designs that align with the actual soil conditions encountered on site.

Purpose

- To assess a sub-surface condition of the soil.
- To obtain groundwater data and condition.
- To measure the in-situ undrained shear strength of soil deposit.
- To retrieve high-quality, undisturbed soil samples for laboratory testing.
- To identify and analyze the geotechnical properties of the soil materials.

Subservices

- Deep Boring Test
- Undisturbed Soil Sampling
- SPT Test
- CPT Test
- Plate Grade Modulus (K) CBR,
- Field Density (Bulk & Dry),
- In-Situ Vane Shear
- Permeability Test
- Hand Boring and Soil Sampling

Soil Mechanical Laboratory Test

The soil mechanical laboratory test consists of either undisturbed samples or disturbed samples taken from the site. The purpose of this work is to understand the

nature of the mechanical and physical properties of soil.

Analysis works including data calculation, analysis and evaluation to prepare a recommendation which includes,

- Foundation system plan
- Bearing capacity analysis
- Settlement analysis
- Slope stability analysis
- Soil improvement recommendation
- Other related engineering analysis

Why Choose Geonusa Utama?

- 15+ years of experience in geotechnical solutions
- Proven track record in infrastructure and the private sector
- Committed to safety and quality
- Experienced team with in-house equipment

Our Projects



CPT Work in Jakarta, Indonesia (2017)



Offshore Soil Test at Banyuwangi, East Java, Indonesia (2014)

Contact Us:

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