



GEMATEST®

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GEMATEST s.r.o.®

GEOTECHNICAL SERVICES AND CONSULTING

GEOTECHNICAL LABORATORY AND FIELD TESTING

CHEMICAL ANALYSES

CERTIFIED LABORATORY



GEMATEST s.r.o.®

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GEMATEST s.r.o.® is an independent accredited laboratory that provides:

- Geotechnical laboratory soil, rock and aggregates testing
- Field Testing Services
- Chemical Analyses

GEMATEST s.r.o.® has been working in the field of geomechanical, geotechnical and chemical soil and rock testing.

We are an independent accredited geotechnical and chemical testing laboratory with a proven track record since starting in 1991. We have an experienced staff and well equipped laboratory with the world class soils and rock testing facilities.

We can react quickly to your needs, special custom specification and requirements.

GEMATEST s.r.o.® routinely perform a wide range of geotechnical laboratory and field testing on soils, rocks, aggregates, concretes and many other related materials. Our geotechnical laboratories have provided classification, compaction, permeability, strength, compressibility, consolidation and field density testing on numerous civil projects.

We perform a wide choice of laboratory and field testing in the following main areas:

- Building industry, survey and foundation of all types of constructions, engineering geology and hydrogeology survey, soil and rock classification
- Foundation and reconstruction of roads, highways, railways, underground constructions
- Ecological constructions and landslide sanitation
- Environmental protection
- Urban and land planning
- Soil compaction control, field soil testing and measurement of the penetration rate



GEOTECHNICAL LABORATORY AND FIELD TESTING

Equipment

We have well equipped geotechnical laboratory with the world class soils and rock testing facilities. These include a modern soils and rocks laboratory, field (in-situ) and sampling testing gear and apparatus (ELE, Controls, Infratest, Wykeham Farrance, Sartorius, Kessler, Strassentest, Retsch, etc.).

LABORATORY SOIL TESTING

- Automatic Proctor compactors



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- Permeability apparatus (Tri-Flex Permeability and Falling head System)



- Automatic Direct Shear Testing Apparatus





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- Laboratory vane test



- Triaxial testing apparatus



- Laboratory Oedometer





- Laboratory Drying and Weighing



- Consistency Apparatus



- Oedometer consolidation apparatus for one-dimensional consolidation test. Particle Size Distribution Analyses



- Specific Gravity – Water tank





LABORATORY ROCK AND AGGREGATES TESTING

- Compression tension machine for compression testing of rocks, CBR test machine





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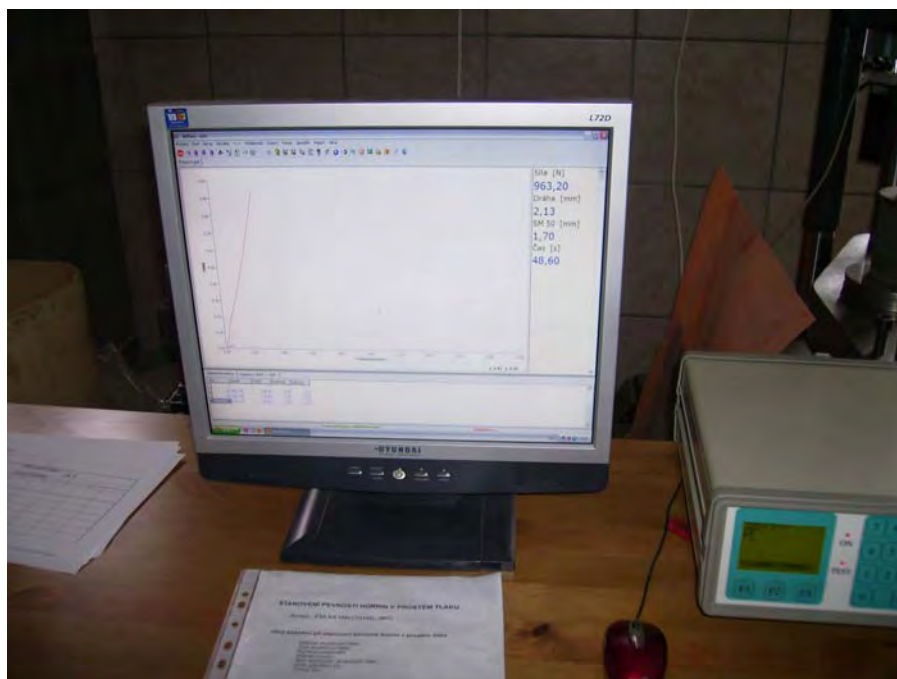
CBR test and Dynamic Penetrometer Kessler



**Lehký dynamický penetrometr
DCP (stanovení dynam.odporu
q_{dyn} a indexu DCP
(mm/úder)**



- Compression tension machine for compression testing





- Compression tension machine for compression testing of rocks



- Los Angeles Abrasion Machine



- Aggregate Impact Value Apparatus





GEOTECHNICAL FIELD TESTING

- Dynamic probing





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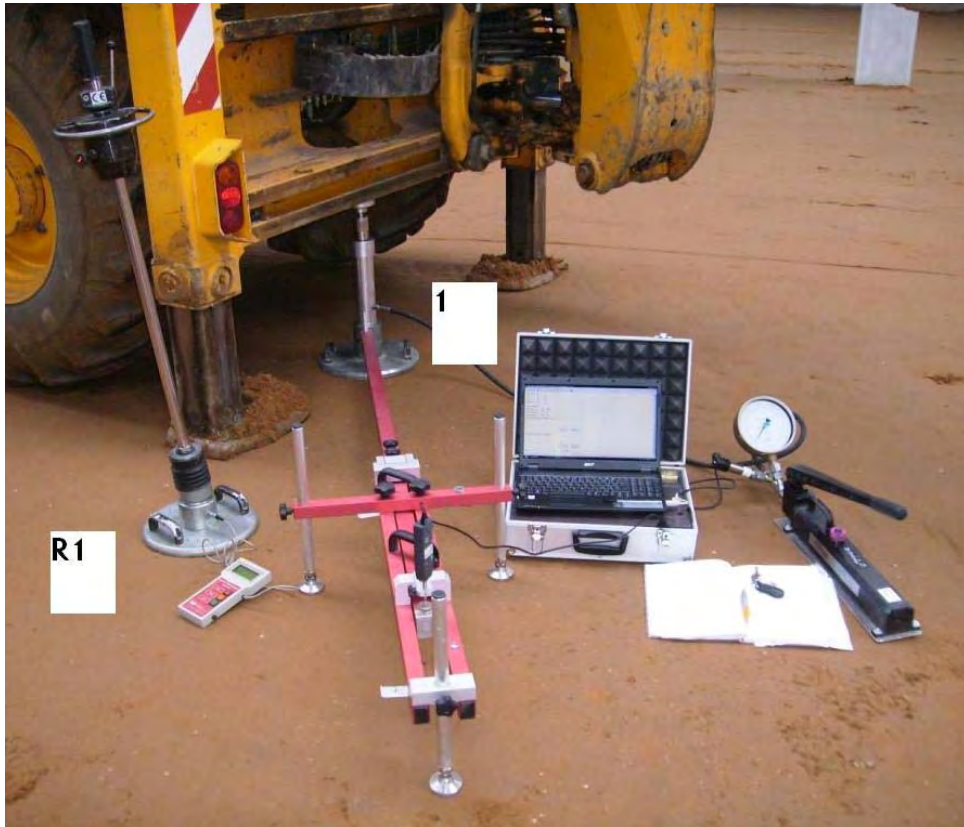
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•DCP Kessler – Dynamic Cone Penetrometer





- Determination of Bearing Capacity of the Soil in Situ (Plate Bearing Test)
 - Light dynamic plate test



- Light dynamic plate test





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- Determination of Bearing Capacity of the Soil in Situ (Plate Bearing Test)



- Ballon Density Apparatus





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CHEMICAL ANALYSES





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SOIL AND ROCK SAMPLE PREPARATION





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Quality control



OSVĚDČENÍ O AUTORIZACI

číslo 25704

vydáno

Českou komorou autorizovaných inženýrů a techniků
činných ve výstavbě
podle zákona ČNR č. 360/1992 Sb.

Mgr. Přemysl Urban

inženýr a příjmení

6309121405

rodeje číslo

je

autorizováným technikem

v oboru:

geotechnika

V seznamu autorizovaných osob vedeném ČKAJIT je veden pod číslem

0008743

a je oprávněn používat autorizační razítko, jehož kontrolní otisk
je uveden zde:



Autorizace je udělena ke dni 30.11.2004



Ing. Václav Kuchař
předseda ČKAJIT

Quality control system based on CSN EN 45 001 was implemented in 1999. Quality control system based on CSN EN ISO/IEC 17025 was implemented in 2002. On december 2009 took place a successful audit. The Czech Certification Institut (CIA) has issued the company a CERTIFICATE OF ACCREDITATION No. 1291. As the laboratory meets the CSN EN ISO/IEC 17025, its activity also complies with CSN ISO 9002. Business strategy of **GEMATEST s.r.o.**® is based on the principle of providing the highest quality services to clients. We produce high quality test results at very competitive rates.

Staff

We have a team of 18 experienced and certified geotechnical engineers and technicians and we can react quickly to your requirements. Our working team includes members of The Czech Chamber of Chartered Engineers and Technicians. We have a full range of capacities for laboratory and in situ geotechnical testing based on the implemented quality control system according to CSN EN ISO/IEC 17025.



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Guaranties

GEMATEST s.r.o.® has a liability insurance from Alianz pojišťovna against damages which may occur in connection with the company activities specified in the Commercial Register.

References

In recent years we have carried out a few outstanding projects of reconstruction and modernization of the Czech railway system, tranzit corridors, city and highway rings and other engineering geological and geotechnice site investigations and geotechnical laboratory and field testing.

TESTING LIST

LABORATORY TESTING OF SOILS

Index, Classification

Test Method for Laboratory Determination of Water (Moisture)

Content of Soil and Rock by Mass

Test Method for Particle –Size Analysis of Soils

Test Methods for Liquid Limit , Plastic Limit and Plasticity Index of Soils

Test Method for Specific Gravity of Soils

Test Method for Laboratory Determination of Unit Weight of Soils. Laboratory and Field Methods.

Test Method for Laboratory Determination of Organic Substances in Soils

Test Method for Laboratory Determination of Carbonates in Soils

Test Method for Laboratory Determination of Sand Equivalent

Compaction

Test Method for Laboratory Compaction Characteristics of Soil (Moisture Density Relations of Soils – Proctor Test Standard and Modified)

Test Method for California Bearing Reatio of Laboratory-Compacted Soils

Test Method for Relative Density with Vibratory Table (Minimum and Maximum Density)



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Permeability

Test Method for Permeability of Granular Soils

Consolidation

Test Method for One Dimensional Consolidation Properties of Soils (Oedometer)

Total and Effective Stress

Test Method for Unconsolidated-Undrained Compressive Strength of Soils in Triaxia

Test Method for Peak Direct Shear Box (Direct shear strength using shearbox)

Test Method for Residual Direct Shear Box

Soil Stabilization

Test Method for Soil Stabilization

Swelling

Test Method for Swelling of Soils (in Oedometer)

Shrinkage

Test Method for Shrinkage of Soils

LABORATORY TESTING OF AGGREGATES, ROCKS AND CONCRETE

Mechanical properties

Aggregate Impact Value

Los Angeles Abrasion Test

Compression Testing of Concrete Cubes and Cylinders

Flexural and Transverse Testing

Physical properties, description

Determination of Particle Size Distribution"

Moisture Content

Determination of the Shape Index

Particle Density (Specific Gravity)

Water Absorption

Bulk Density

Weathering (Durability)



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FIELD TESTING

In-Situ Density (Field Density Testing using Baloon Density Apparatus-Densitometer)
Determination of Bearing Capacity of the Soil in Situ (Plate Bearing Test)
Dynamic penetration tests (dynamic probing). Light Dynamic Plate Test...