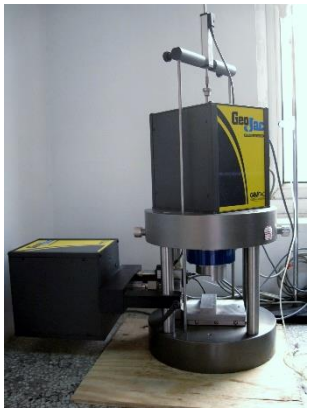
中海油田服务股份有限公司
China Oilfield Services Limited

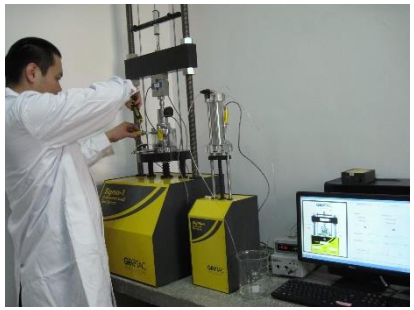
Soil Laboratory

State-of-the-art equipment are used for performing soil testing in our soil laboratory. We are experienced in analyzing soil samples from your shallow water or deepwater projects, could supply high quality soil data for supporting your engineering designs and large building projects. With high –volume capacity laboratory and expertise, we perform various soil tests and deliver reports specific to client's need.

64MPa High capacity triaxial



Direct simple shear



CRS Consolidation

Testing Capability

Various soil tests, including classification and index tests, strength tests and advanced tests, can be carried out in compliance with local and international standards, such as GB/T 50123, ASTM Volume 04.08, NORSOK STANDARD G - 001 and BS 1377. Not only do we undertake sophisticated soil testing programs, but we also assist clients with test scheme design and providing comprehensive analysis using different test results.

Laboratory Apparatus

Classification
Conventional triaxial
CRL Consolidation
CRS Consolidation
Cyclic triaxial device
Fall cone

Multi-function triaxial（Add bender elements）
64MPa High capacity triaxial(Add bender elements)
Resonant column
Direct simple shear
Dynamic cyclic simple shear
Automated test system for box core testing

Rheometer
Direct shear
Miniature vane
Permeameter
Electric compaction
Conductivity

Testing Assignments

Classification

Atterberg limits Water content Specific gravity tests Particle size analysis Relative Density Density meter Permeability of soil

Static testing

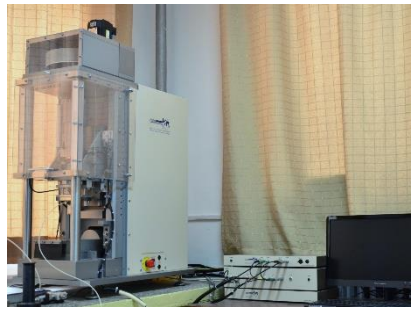
CRL Consolidation CRS Consolidation Creep tests CK_0U_C CK_0U_E CAU_C CAU_E Under the condition of high pressure triaxial tests Miniature vane tests Direct simple shear tests Box core soft soil tests Direct shear

Dynamic testing

Stress control cyclic direct simple shear Strain control cyclic direct simple shear Liquefaction characteristic tests Small strain shear modulus and damping ratio tests

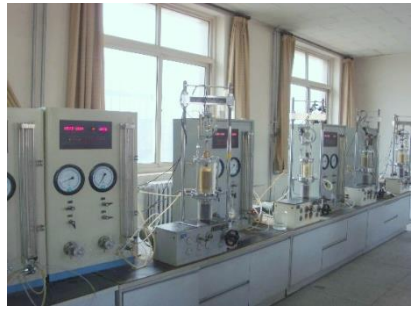
Other testing

Pipe soil interaction model tests Rheological behavior of soils tests Conductivity Tests Shear wave velocity tests



Dynamic cyclic simple shear

Resonant column



Conventional triaxial