

# PT. HYDROCORE



## SURVEY, DRILLING AND GEOTECHNICAL

### Introduction :

PT. Hydrocore is a fully Indonesian, leading in onshore & nearshore geotechnical works, producing innovative equipment for onshore & nearshore work, to provide services for :

- Small scale to large scale onshore geotechnical investigations using the latest technology of drilling method and sampling equipment.
- Nearshore geotechnical survey to maximum 25 m water depth for jetty, terminal, port, reclamation, subsea pipeline, etc with cost effective and reliable methods.
- Hydrogeological investigation to maximum 150 m depth including well drilling, permeability testing (Packer lugeon test, falling/constant head test).
- Supplying various core drilling (NQ/HQ/PQ) to 150m depth.
- Onshore CPTu using 2.5 ton, 5 ton, 10 ton and 20 ton skid CPTU with Geomil & AP Van den Berg CPTU.
- Specific drilling/sampling i.e. downhole CPTu with alternate sampling/drilling.
- Onsite/offshore lab testing and onshore lab testing (see our laboratory brochure).



Manitou



Crawler Roll  
Armed Transport



Modular Pontoon



Auto Triaxial LAB



Geonor Field  
Vane Shear



Bimbar Packer



Portable Mid  
Size Drill RIG



Downhole  
Mazier Sampler  
& Sand Sampler



Portable  
Mini Drill RIG



10 tons Skid CPTu



Hydraulic Piston Sampler



Geomil & AP Van  
Den Berg CPTU



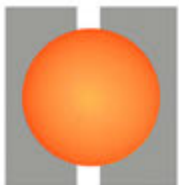
SPT-MAN  
Energy Measurement

### Our Facility & Man Power :

- Workshop 500 m<sup>2</sup> machining area and 1000 m<sup>2</sup> yard, welding machines, drilling machines.
- Total manpower of more than 149 consisting of 12 geologist/geotechnical engineers, 5 lab engineers, 8 lab technicians, 5 HSE officer, 14 drillers/CPTu operators, more than 70 drill crew/technicians, 3 welders, 2 rig designers, 1 hydraulic engineer, 2 mechanical engineer, 1 electronic engineer, 10 workshop technicians, and more than 13 administration/finance/logistic etc.

#### CONTACT US :

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PT. HYDROCORE

# LABORATORY

2006 NOTHING

2008 SOMETHING

2016 ADVANCING

## The Facility :

- Laboratory area of 180m<sup>2</sup> with temperature controlled, 24 hours a day, 365 days a year.
- Storage room of 15m<sup>3</sup> with >95% humidity controlled & 0° - 15° C adjustable temperature controlled.
- GDS fully trained engineer & technician
- Edge technology of equipment with less operator intervention
- QA/QC controlled with ISO9001 certification

## The Advantage :

- Fully automatic controlled GDS triaxial system, up to 4000 kPa confining pressure and 1mm<sup>3</sup> volume change accuracy
- Automatic controlled of Oedometer & Direct shear tests.
- Triaxial cell accommodating up to 85mm diameters
- Longitudinal splitter of shelby tubes as per ASTM 4767 paragraph 6.2, to avoid sample disturbance (compression) due to extrusion.

## The Service :

- Soil Classification tests (Moisture content, Atterberg limits, Sieve & hydrometer, Linear shrinkage, specific gravity, organic content)
- Soil Chemical & Corrosivity tests (pH, electrical resistivity, Carbonate content, chloride content, pore water extraction and determination of the soluble salt content by refractometer Sulfate content, Chloride content and SRB)
- Total Suspended Solid (TDS) and Total Dissolved Solid (TSS) of water sample
- Salinity test on extracted pore water
- Soil Oedometer
- Soil compaction
- Soil Expansion index
- Soil Permeability tests (Constant head/falling head and Triaxial permeability)
- Soil Shear Strength tests:
  - Mini lab vane
  - Unconfined compression
  - UU and CD direct shear
  - UU triaxial, single/multistage, max 85mm dia, up to 4000 kPa confining pressure
  - CIU triaxial, single/multistage, max 85mm dia, up to 4000 kPa confining pressure
  - CiD triaxial, single/multistage, max 85mm dia, up to 4000 kPa confining pressure
- Soil laboratory minivane shear
- Soil maximum & minimum density
- Rock point load test
- Rock uniaxial compression test
- Rock tensile strength test
- Storage the samples

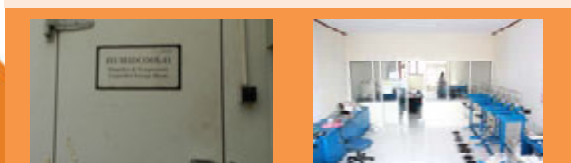


Fully Automatic Triaxial System



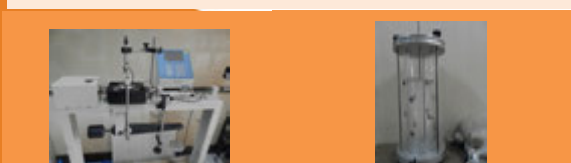
Oedometers with transducer

Semi-Auto Triaxial



Humid & Cooler Storage

2nd floor Lab room



Direct shear

Permeability

## The Advance Tests :

Our advanced testing for Cyclic Simple Shear/Cyclic Triaxial test, Resonant Column test will be commencement early 2016 that will reinforce or position for forefront of geotechnical testing

## CONTACT US :

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