



HAI (CAMBODIA) SURVEY & CONSTRUCTION CO., LTD

2015

COMPANY PROFILE

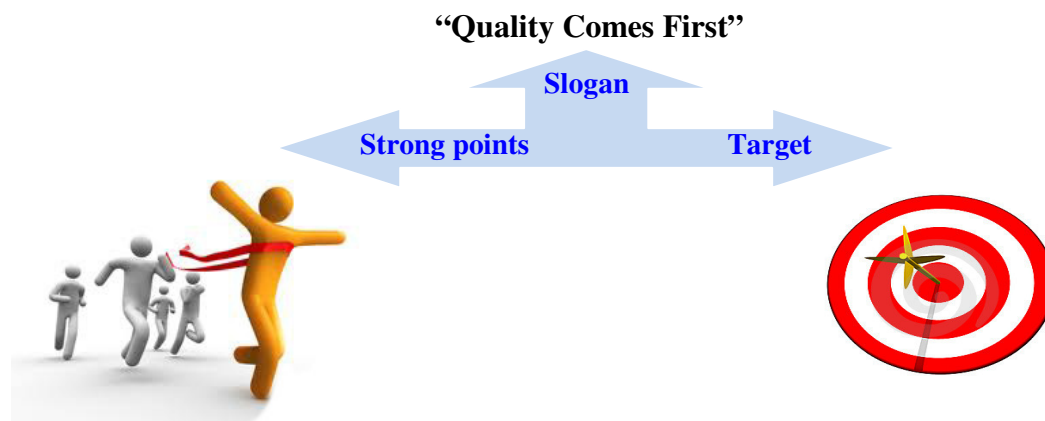


INTRODUCTION

INTRODUCTION

HAI (Cambodia) Survey & Construction Co., Ltd set up under Business License No: Co. 0520 E/2015, on February 05th, 2015 at Ministry of Commerce, Kingdom of Cambodia. HAI (Cambodia) Co., Ltd operates within the limits of Firms Law of Kingdom of Cambodia.

Our main fields are Geotechnical Investigation, Surveying, Hydrogeological Investigation, and Materials Tests. Since our foundation, HAICAM always pursuits patiently the slogan:



-  Professional working style.
-  Highest quality of services.
-  Team of young, creative, enthusiastic professionals.
-  Many of experiences in the fields of geotechnical investigation, surveying, hydrogeological investigation.
-  Ceaselessly improving on management and all divisions in our company.

-  HAICAM Co., Ltd pursuits of target becoming a pioneer who supplies with the best products – services in the field of geotechnical investigation, materials testing and surveying in Cambodia.

SERVICES

Geotechnical Investigation

Topographical Survey



The purpose of geotechnical investigation is to research and characterize the geological conditions of the study area (including topographic, geomorphological conditions, geological structure, physico-mechanical properties of soil and rock, hydrogeological conditions...), then set up the reasonable technical and low-cost solution for the current project.

In-situ tests:

- Standard penetration test (SPT)
- Plate loading test
- Cone penetration test
- Vane shear test
- Pore water Pressure monitoring test
- Permeability test
- Soil resistivity test...

Laboratory Test:

- Physico-mechanical test for undisturbed soil and rock samples
- Unconfined compression test
- Consolidation Test (one cycle, two cycle)
- Triaxial Test (UU, CU, CD, consolidation, permeability)
- Permeability test
- Chemistry water test for construction

.....



The purpose of topographical survey is to research into topographic conditions of the study area and to collect appropriate data for design and related work.

Drawing the topographic map:

- Scale of 1/200, 1/500, 1/1000, 1/2000, 1/5000
- Setting up benchmarks for surveying
- Co-ordinate and elevation network
- Surveying the cross section, longitudinal section

In addition, a survey for construction work is carried out to serve construction projects in their execution. Establishing control network for execution

- Positioning the construction area
- Validating the accuracy of construction work
- Positioning the centre line of construction work
- Positioning the foundation
- Positioning the main axes and auxiliary axes in construction work
- Setting up the coordinate system for construction work
- Monitoring the displacement of construction work (monitoring the settlement, horizontal and vertical movement...)



PRODUCTS - SERVICES

Hydrogeological Investigation



Hydrogeological investigation is executed to determine exploited water reserves, or to evaluate the mutual influence between construction task and hydrogeological conditions at construction site, then to propose a solution.

- Evaluating exploited water reserves
- Conducting suction/pumping test
- Lowering underground water level
- Boring industrial wells
- Monitoring water level

.....

Construction Materials Test

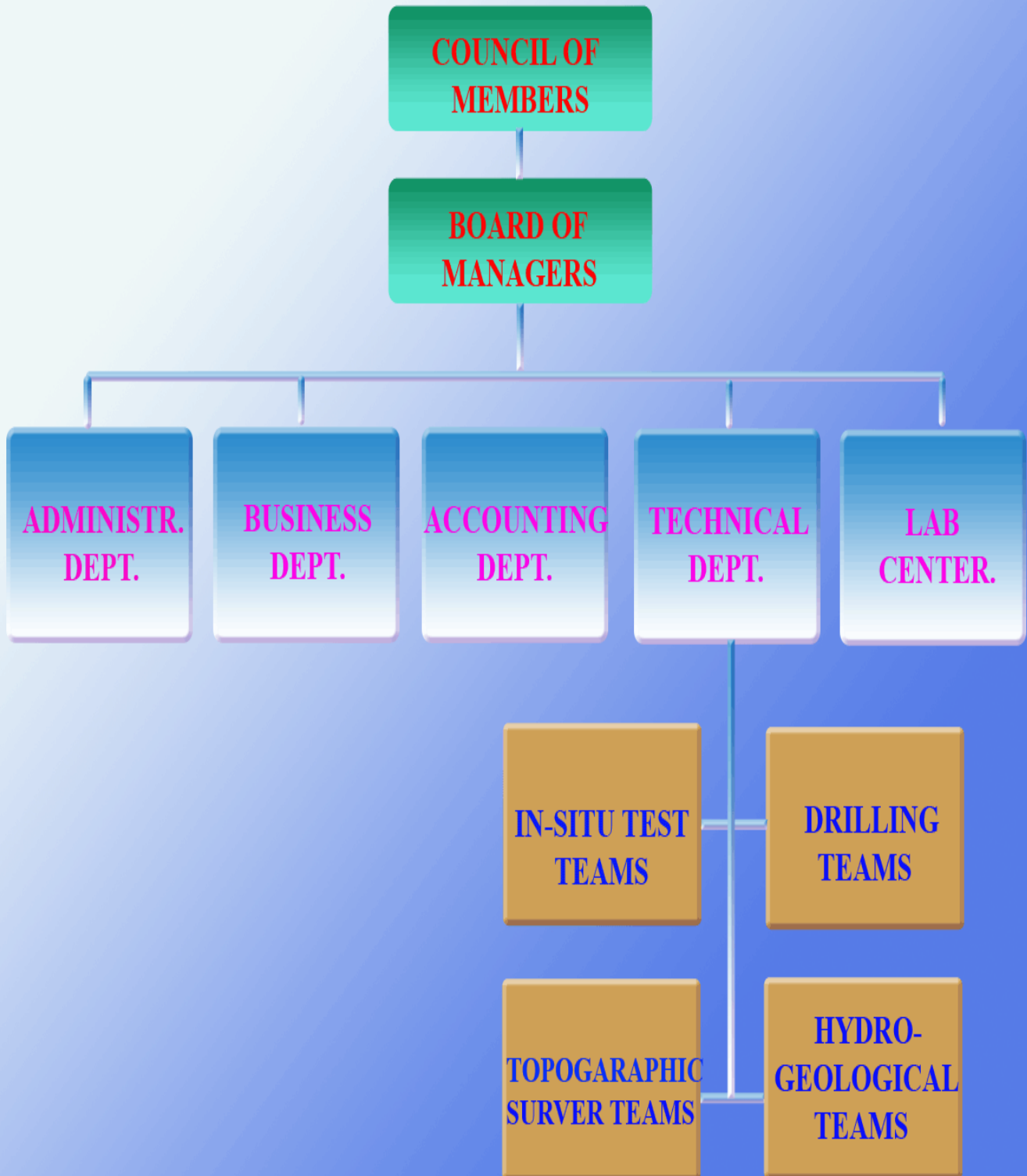


Construction material tests are conducted to check and supervise the quality of structure and foundation of a construction work based on the quality of iron, steel, concrete, brick, etc...

- Physico-mechanical test for cement
- Mixed concrete test and heavy concrete
- Test for components of concrete and mortar
- Construction mortar test
- Physico-mechanical test for brick
- Steel cable tension test

.....

ORGANIZATIONAL CHART



LIST OF EQUIPMENT FOR GEOTECHNICAL INVESTIGATION

No.	Items	Origin	Unit	Qty	Picture
1	Drilling equipment XY-1AYJ	China	Set	10	
2	Sedimentation cylinder	China	Ea	60	
3	Electronic scale TAJ602	United States	Ea	1	
4	Electronic scale PA4102	United States	Ea	1	
5	Electronic scale BC6	United States	Ea	1	
6	Electronic scale BC15	United States	Ea	2	

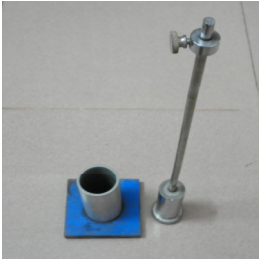
LIST OF EQUIPMENT FOR GEOTECHNICAL INVESTIGATION

No.	Items	Origin	Unit	Qty	Picture
7	Sieve set Ø300 (ASTM)	China	Set	1	
8	Sieve set Ø200 (TCVN)	China	Set	2	
9	Vacuum pump	United States	Ea	1	
10	Oven	China	Ea	2	
11	Hydrometer 151H, 152H	Europe	Ea	2	

LIST OF EQUIPMENT FOR GEOTECHNICAL INVESTIGATION

No.	Items	Origin	Unit	Qty	Picture
12	Direct shear machine (three speeds)	China	Ea	2	
13	Consolidometer (maximum pressure 1600 kPa). Each frame has three oedometer cells	China	Cell	45	
14	Tools determine the limit flow (Tools Vaxiliev)	China	Ea	1	
15	Triaxial machine TSZ30-2.0 (maximum load 30 kN)	China	Ea	4	
16	Tools determine the limit flow (Tools Casagrande)	United States	Ea	1	

LIST OF EQUIPMENT FOR GEOTECHNICAL INVESTIGATION

No.	Items	Origin	Unit	Qty	Picture
17	Unconfined compression apparatus YYW-2	China	Ea	2	
18	Equipment test void ratio	China	Set	1	
19	Combination permeameter	China	Set	1	
20	Cone penetration held hand	United States	Set	1	
21	Vane shear held hand	United States	Set	1	

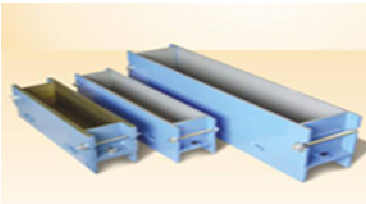
LIST OF EQUIPMENT FOR TOPOGRAPHICAL SURVEY

No	Items	Origin	Unit	Qty	Picture
1	Electronic Total Station Topcon GTS-235N	Japan	Set	03	
2	Electronic Total Station Leica TS 09	Japan	Set	03	
3	Automatic Level PENTAX AL-320	Japan	Set	02	

LIST OF EQUIPMENT FOR CONSTRUCTION MATERIALS TEST

No	Items	Origin	Unit	Qty	Picture
1	Universal Compression Tractors WEW 1000B	China	Set	2	
2	Hydraulic Compression Testing Machine 3000 KN-Model: TYA- 3000	China	Ea	1	
3	Electro Hydraulic Compression Testing Machine 2000 KN-Model: TYA-2000	China	Ea	1	
4	Electro Hydraulic Compression Testing Machine 2000 KN-Model: ELE-2000	England	Ea	1	
5	Cutting machine	Vietnam	Ea	1	

LIST OF EQUIPMENT FOR CONSTRUCTION MATERIALS TEST

No	Items	Origin	Unit	Qty	Picture
6	Hydraulic cylinder 150 x 300 Mould 3 double cube 150x150x150 T.TECH- Model: C258-02	Vietnam	Ea	12	
7	Capping -T.TECH; Model: C290-05	China	Set	5	
8	Mould cube concrete bend test	Vietnam	Ea	9	
9	Determine concrete permeability	China	Ea	2	
10	Casting cylindrical concrete samples for plant penetration D150x150	China	Ea	18	

LIST OF EQUIPMENT FOR CONSTRUCTION MATERIALS TEST

No	Items	Origin	Unit	Qty	Picture
11	Concrete slump cone test	Vietnam	Set	2	
12	Concrete test hammer MATEST (ITALY) model: C380	Italy	Ea	1	
13	Ultrasonic Concrete - MATEST- Model: C369	Italy	Set	1	
14	Ultrasound reinforced - MATEST (ITALY)-Model: C396	Italy	Set	1	
15	CBR/MARSHALL 50KN – VN Compressors	Vietnam	Ea	1	

LIST OF EQUIPMENT FOR CONSTRUCTION MATERIALS TEST

No	Items	Origin	Unit	Qty	Picture
16	CBR mold - T.TECH-Model: S200	China	Set	10	
17	Los Angeles-VN Abrasion tester machine	England	Ea	1	
18	Rock washing bottles - T.TECH	Vietnam	Ea	1	
19	Sand washing bottles - T.TECH	Vietnam	Ea	1	
20	The funnel determine porosity of the rocks	Vietnam	Set	2	

LIST OF EQUIPMENT FOR CONSTRUCTION MATERIALS TEST

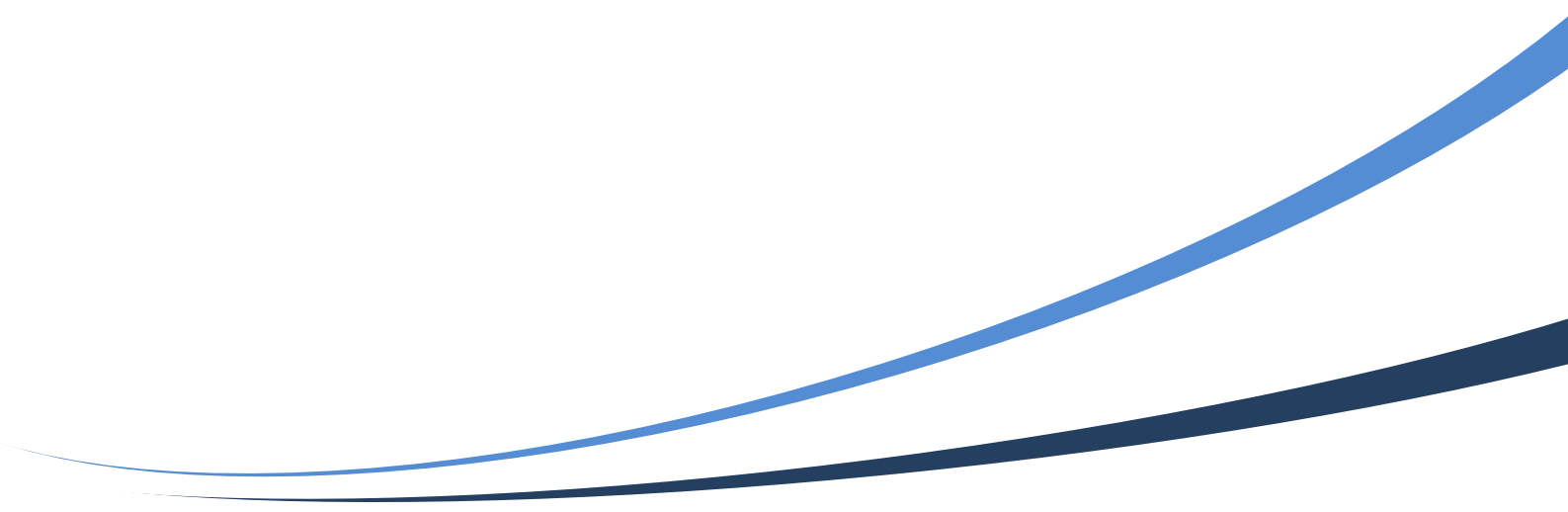
No	Items	Origin	Unit	Qty	Picture
21	The funnel determine porosity of the sands	Vietnam	Set	2	
22	Measuring deck	Vietnam	Ea	12	
23	Sand cone	Vietnam	Set	5	
24	Ring Knife 100 cm3 (200cm3)	Vietnam	Set	12	
25	Concrete - mixed machine	Vietnam	Ea	1	

LIST OF EQUIPMENT FOR HYDROGEOLOGICAL INVESTIGATION

No	Items	Origin	Unit	Qty	Picture
1	Drilling wells machine	China	Set	3	
2	Water Level Measure RWL 50M	Japan	Set	2	
3	Pump machine	China	Set	3	

FEATURED PROJECTS

Project: KING TRIP Location: Sihanoukville, Cambodia		Charged items by HAICAM + Geotechnical Investigation: Drilling on shore and on sea, Standard penetration test (SPT) + Execution time: January 2015
Project: MAO TSE TOUNG BLVD Location: Phnom Penh, Cambodia		Charged items by HAICAM + Geotechnical Investigational + Topographical Survey + Meteo-Hydrographic Survey
Project: NEW CHROY CHANGVA BRIDGE Location: Phnom Penh, Cambodia		Charged items by HAICAM: + Geotechnical Investigation + Topographical Survey + Meteo-Hydrographic Survey



HAI (CAMBODIA) SURVEY & CONSTRUCTION CO., LTD

Add: #182, Street C, Krang Tnorng Sangkat, Posenchey Khan, Phnom Penh, Cambodia

Tel: +855 97 402 0622 / +84 90 383 3649

Website: www.haicam.com E-mail: haigeosg@gmail.com