

## PRE – QUALIFICATION DOCUMENT

Upholding quality assurance is our priority



Al Hai & Al Mukaddam for Geotechnical Works (L.L.C.)

[www.ahamgeo.com](http://www.ahamgeo.com), email: [info@ahamgeo.com](mailto:info@ahamgeo.com)

Over 40 years of excellence



# COMMITTED TO QUALITY

## OUR MESSAGE

**M/s. Al Hai and Al Mukaddam for Geotechnical Works (L.L.C.)** is pleased to submit this pre-qualification enclosed with our projects and engineering expertise associated with quality control, site investigation and soil-structure interaction problem solving. We have been rendering services to clients including property owners, public authorities, developers, consultants, contractors and specialized sub-contractors.

AHAM has partaken prestigious jobs across the U.A.E as follows: Sheikh Zayed Mosque in Abu Dhabi, Conference Palace in Abu Dhabi, Abu Dhabi International Airport, Abu Dhabi Fairmont Hotel, Abu Dhabi International Marine Sports Club Expansion (Off-shore Works), Dubai International Airport, Dubai Festival City Development (Off-shore Works), Dubai Metro, King Abdel Aziz Road in Sharjah & Gas Pipe Lines from Musaffah to Jabal Ali. We likewise accommodated major projects not only within U.A.E. jurisdiction but as well as in State of Qatar, Kingdom of Saudi Arabia, Bahrain, Pakistan and other regions.

All our equipments are regularly calibrated and are in accordance with international standards as well as local authorities.

We assure you of our dedicated service at all times with strict adherence to our Quality Management System in compliance to the requirements stipulated in the standards of ISO 9001:2008 and ISO 17025:2005 as well as the guidelines set by the Local authorities.

Looking ahead to serving you in future projects and we will be grateful for receiving your comments and suggestions.

*Mohammad Mukaddam, Ph.D.*  
*Managing Partner*

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- B. TRADE LICENSE, CERTIFICATES & INSURANCES

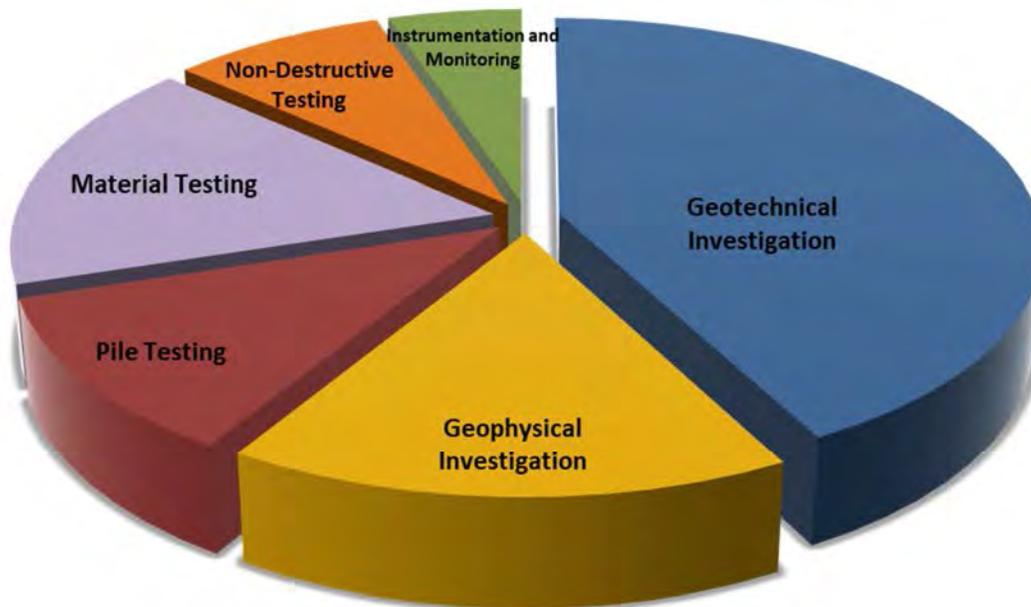
## WHO we ARE

Al Hai and Al Mukaddam for Geotechnical Works (AHAM) was established in 1976 in UAE. Noted as one of the pioneers in the field of Civil Engineering specializing in Geotechnical Services, Geophysical Studies, Material Testing, Testing of Piles, Non Destructive Testing and Assessment of Concrete Structures in addition to Quality Control of Construction Sites. AHAM founded by Professor Mohammad Mukaddam in 1976 and currently operates with offices in Abu Dhabi, Dubai & Sharjah.



## WHAT we DO

The scope of services offered by AHAM include geotechnical site investigation both onshore and nearshore, geophysical studies, material testing (soil, aggregates, concrete, steel, cement & water), testing of piles, assessment, monitoring & testing of concrete structures and providing third party supervision and quality control assessment on construction sites.



## QUALITY POLICY

1. It is the policy of Al Hai & Al Mukaddam for Geotechnical Works that in all of its activities, we identify and understand the Customer's needs, expectations and requirements and provide quality and timely services without any compromise.
2. We achieve our aim through continuous improvement, leadership, co-operation and full involvement of our personnel.
3. Laboratory management will regularly and systematically review the Quality Policy and Objectives for continuing suitability and development needs.
4. Laboratory Personnel are committed to continuous improvement through education, training and communication. Personnel are committed to familiarize themselves with quality documentation and implement policies and procedures in their work.
5. The Laboratory Management is committed to comply with requirements of ISO 17025, ISO 9001, DM, DAC / DCLD Accreditation rules and regulations and Customer's requirements.

Continous Improvement

Customer Satisfaction

Monitor & Measure

Staff Training

## HEALTH & SAFETY POLICY

Al Hai & Al Mukaddam for Geotechnical Works, abbreviated as AHAM, is committed to safeguard the Health and Safety of its employees and of all those who may be affected by our works. It also recognizes the vital importance of discharging its statutory obligations and placing Health & Safety matters as an over riding priority. Across the AHAM organization the minimum acceptable H&S standards are those required by relevant national and international legalizations.

All staff, workforce and others employed by AHAM and their subcontractors shall comply with this policy, aiming constantly for "Zero Accident Tolerance".

It is meant to be used by our management, supervisory staff workforce, subcontractors and all other interested parties for improving and maintaining the health and safety of our employees and the general public, who might be affected by our work.

We are fully dedicated to continue and improving our Quality Management System and Health and Safety procedures in order to ensure the best and safest work possible.

Caution

Be alert

Careful

Take Care

# WHY AHAM

## Local Resources & Local Knowledge

With our +40 years of remarkable experiences in conducting geotechnical & geophysical investigations we have come across all the possible problems and unexpected situations that have resulted from this region. When it comes to prestigious large projects, we also called to set the geotechnical & geophysical specifications of contracts before the tendering stages. In addition, our extensive large database of investigations in the region gives us great advantages in promptly recognizing reoccurring problematic situations, which can therefore benefit clients in taking the necessary actions in order to save time and costs.

## Our Drilling Rigs

Working with a fleet of 33 drilling rigs that are of different origins, we can perform many different types of drilling techniques and complete large soil investigation jobs in the time required by our clients. We are also very proud to mention that our drilling techniques always produce core recovery not less than 95% at all times. On many previous jobs we have been called in because other local contractors were not able to achieve the required core recovery. Most of our machines are of the newest models that are designed to address the most up to date environmental and safety issues.

## Our Capabilities

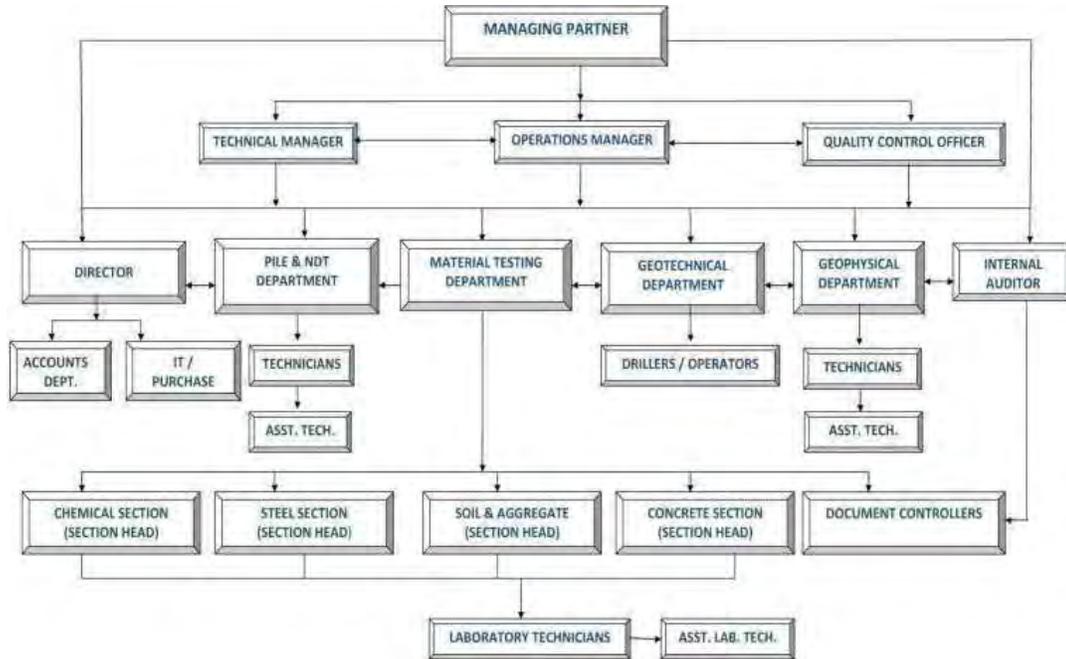
Working through our three offices in the main sectors of the United Arab Emirates (Abu Dhabi, Dubai & Sharjah), we are in an efficient position to move around easily and take on several projects simultaneously.

In order to make the best of utilizing resources in the U.A.E. we operate our own manufacturing workshop where we can fabricate our own drilling tools. This advantage makes us very responsive in analyzing problems that occur on site with equipment breakdowns. We also store excessive amounts of spare equipment that do not need to be imported and therefore save a lot of time and delays during operations.



**CORE RECOVERY 100%**

# AHAM Organization CHART



## GET in TOUCH

<b>Abu Dhabi:</b>	Musaffah Industrial Area	P.O. Box # 132634	Tel: +971 (2) 5508042	Fax: +971 (2) 5508046
<b>Dubai:</b>	Dubai Investment Park	P.O. Box # 60462	Off. Tel: +971 (4) 8854854	Off. Fax: +971 (4) 8854853
			Lab Tel: +971 (4) 8854771	Lab Fax: +971 (4) 8854772
<b>Sharjah:</b>	Sharjah Industrial Area – 17	P. O. Box # 5116	Tel: +971 (6) 5350357	Fax: +971 (6) 5350358

# Geotechnical Investigation



# GEOTECHNICAL INVESTIGATION

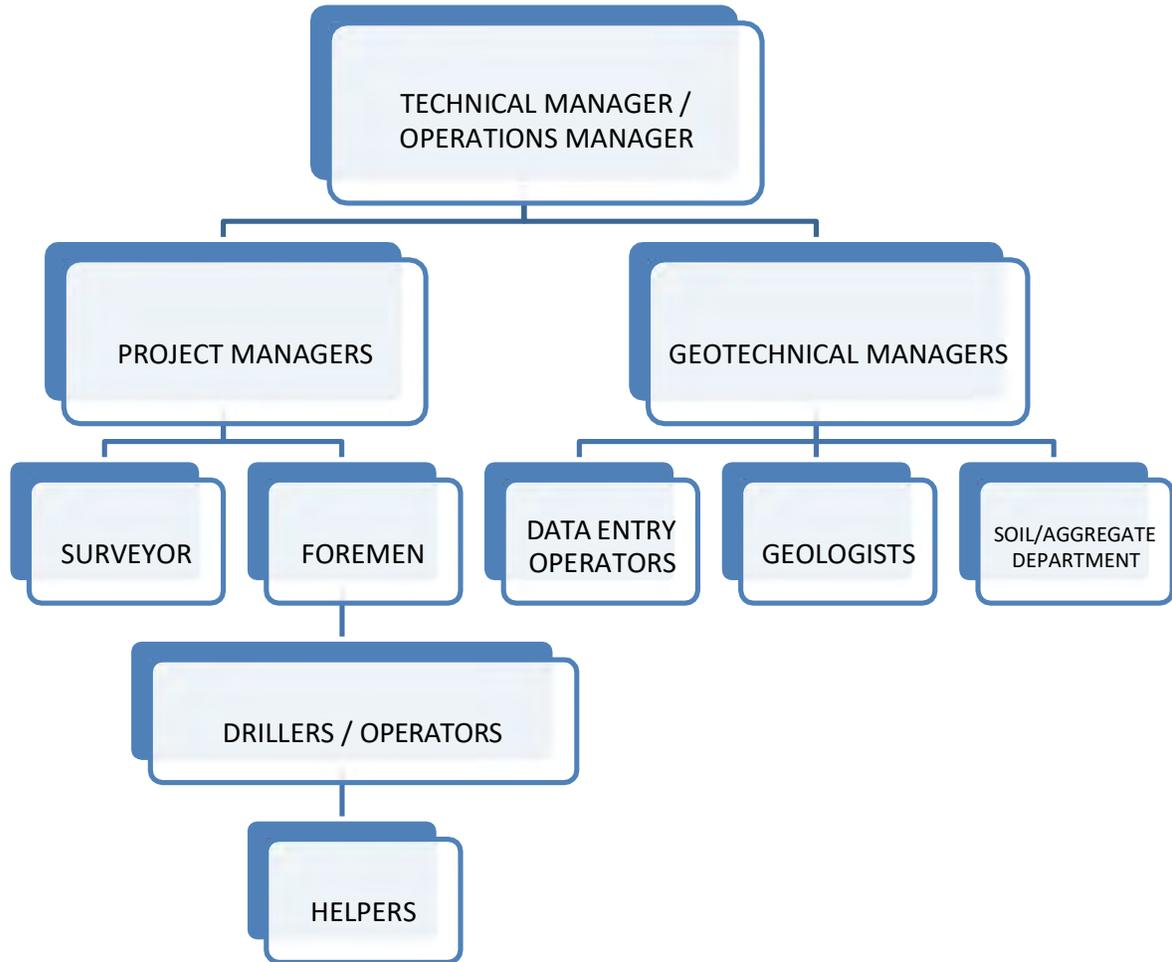
## LIST OF ACTIVITIES

- Soil Investigation, Boring and Sampling, SPT, CPT
- PS Suspension Logging Test (Shear Wave Velocity)
- Acoustic Televiwer Borehole Logging Test
- Pressuremeter Testing
- Packer (Lugeon) Test
- Falling Head Permeability
- Constant Head Permeability
- Pumping Test
- Plate Load Test
- Automated Beklin Beam Plate Load Test
- Supervision of Zone Load Test
- Infiltration & Percolation Testing
- Diagraphy Drilling (Real Time Monitoring)
- Soil Resistivity
- In-Situ CBR
- Gas Monitoring
- Thermal Resistivity/Conductivity
- Installation of Piezometers (Water Table Monitoring Wells)
- Environmental Sampling & Testing
- Topographic Survey

## SOFTWARES

- gINT (Geotechnical / AGS Software)
- AutoCAD
- GonSite / GO4
- CPeT-IT, Liq-IT and C-Liq
- Geovision

## DEPARTMENT CHART – GEOTECHNICAL INVESTIGATION

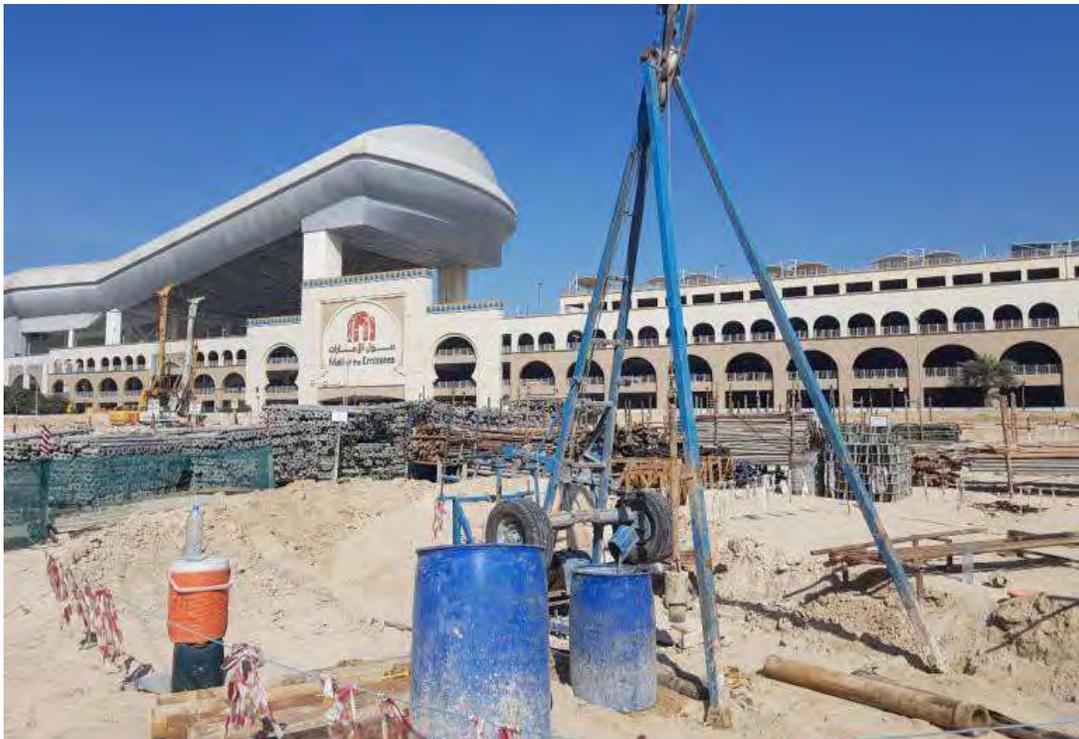


## MACHINERY & EQUIPMENT - GEOTECHNICAL INVESTIGATION

### ➤ PERCUSSIONS DRILLING RIGS

The purpose of this method / type of drilling is to advance the borehole and explore the in-situ conditions of the subsurface in superficial deposits, soil and weak rock, conduct in-situ tests like SPT, to record the Ground water table, and collect small disturbed and bulk samples of soil, weak cemented sand and soft rock.

AHAM has a total of 12 percussion drilling rigs supplied by international well known manufactures, which are properly maintained and capable of achieving drilling depths of up to 30 meters.



PILCON WAYFARER

## ROTARY DRILLING RIGS

The purpose of this method / type of drilling is to advance the borehole and explore the in-situ conditions of the subsurface in rock and retrieve rock core samples from the sub-strata. Due to its vast experience in the region, AHAM is capable of obtaining almost complete core recovery with the use of state of the art drilling bits and experience based drilling fluid.

AHAM has a total of 20 rotary drilling rigs supplied by international well known manufactures, which are properly maintained and capable of achieving drilling depths exceeding 120 meters. These rigs can also be equipped to undertake percussion drilling.



NORDMEYER DSB 1/3.5



ACKER



MOBILE TRUCK MOUNTED



JACK-UP BARGE



CPT MACHINE

## ➤ IN-SITU TEST EQUIPMENT

The following table summarizes the list of major In-Situ test equipment in geotechnical investigation works:-

Table 1. IN-SITU GEOTECHNICAL TEST EQUIPMENT

S.No.	Description	Model / Make
1	High resolution acoustic televiewer	Robertson Geologging - U.K.
2	Diagraphy drilling	Apageo - France
3	Static cone penetration test equipment	AP van den Berg - Netherland
4	P.S.Suspension logging	Robertson Geologging - U.K.
5	Pressure meter test	OYO - Japan
6	In-Situ CBR	Local
7	Packer permeability test	Local
8	Gas monitoring	Landtec Gem 2000 - U.S.A.
9	Plate load test (conventional)	Local
10	Plate load test (Benkelman Beam)	Anix GmbH - Germany
11	Thermal Resistivity	-
12	Level Loggers (up to 200m)	Solinst - Canada



ACOUSTIC TELEVIEWER



GEOBOX EQUIPMENT



PRESSUREMETER TEST EQUIPMENT



SURVEYING EQUIPMENT



THERMAL RESISTIVITY



GAS MONITORING



PLATE BEARING TEST

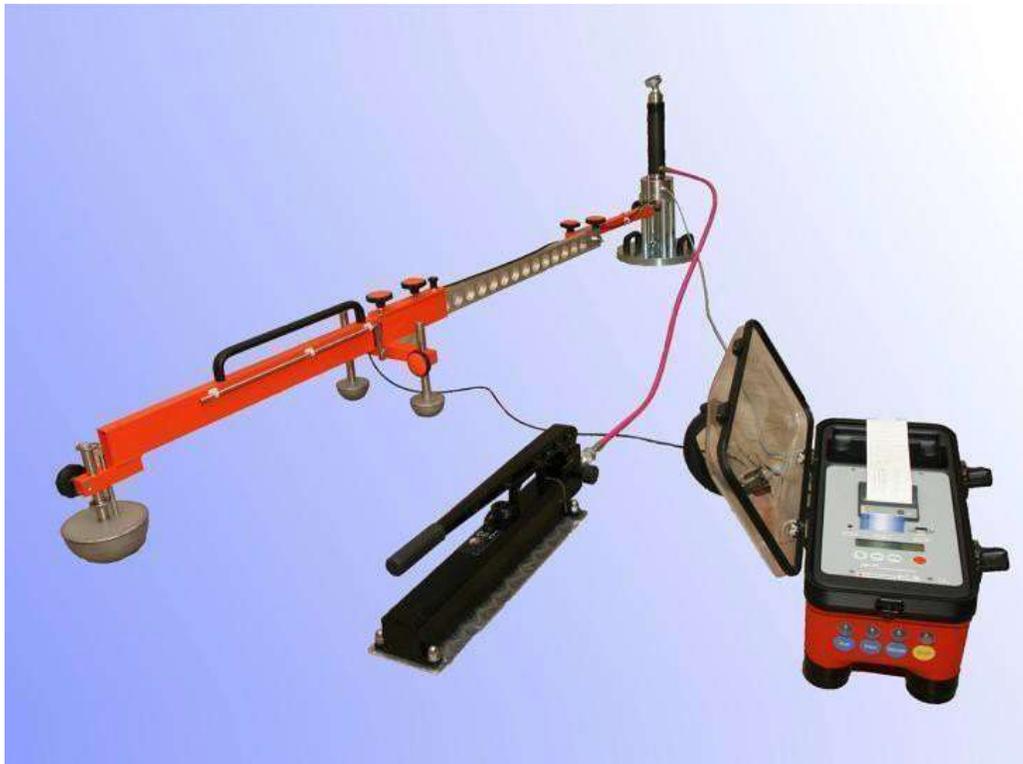
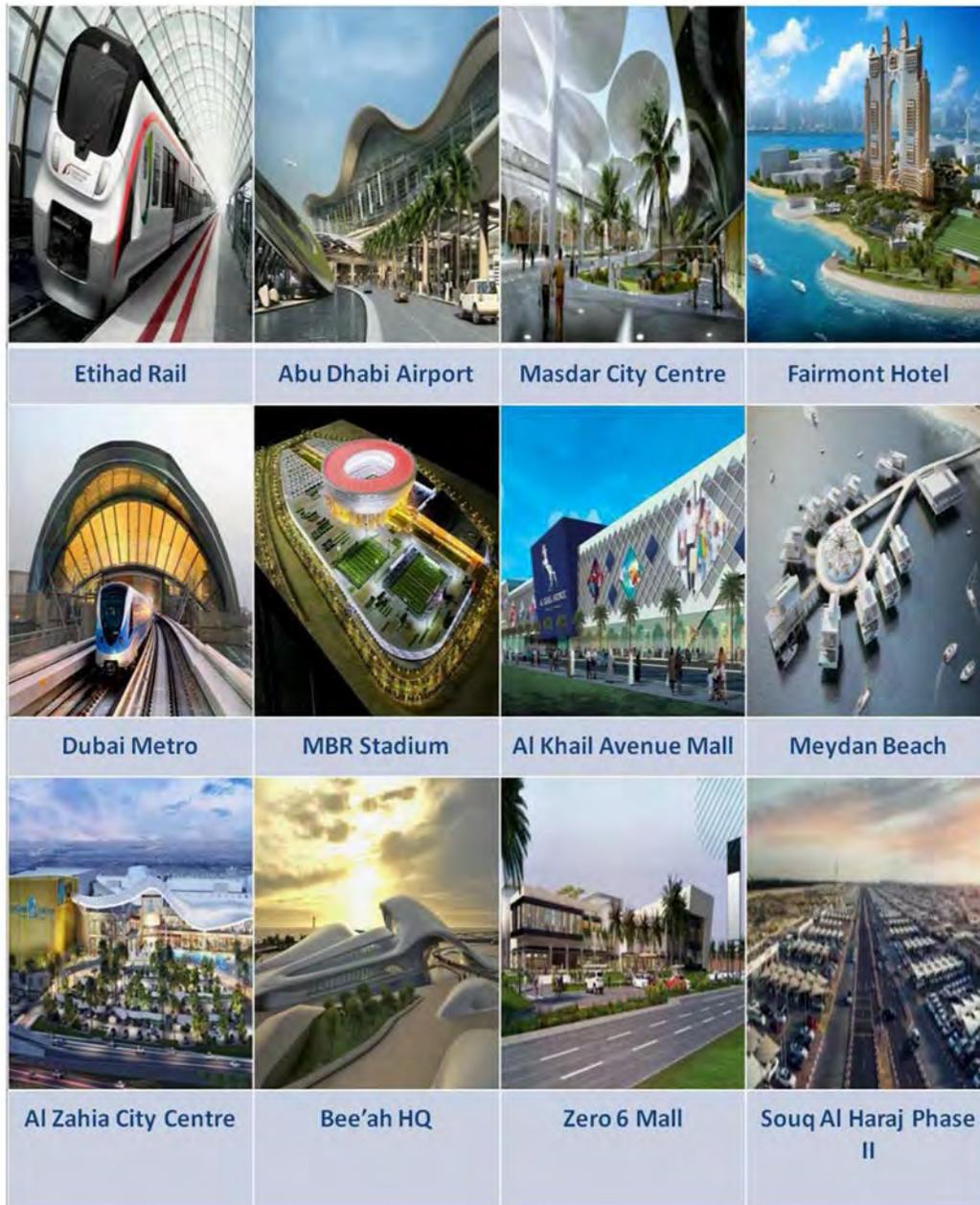


PLATE BEARING TEST (BENKELMAN BEAM)

## SELECTED PROJECTS – GEOTECHNICAL INVESTIGATION



## Geophysical Investigation



# GEOPHYSICAL INVESTIGATION

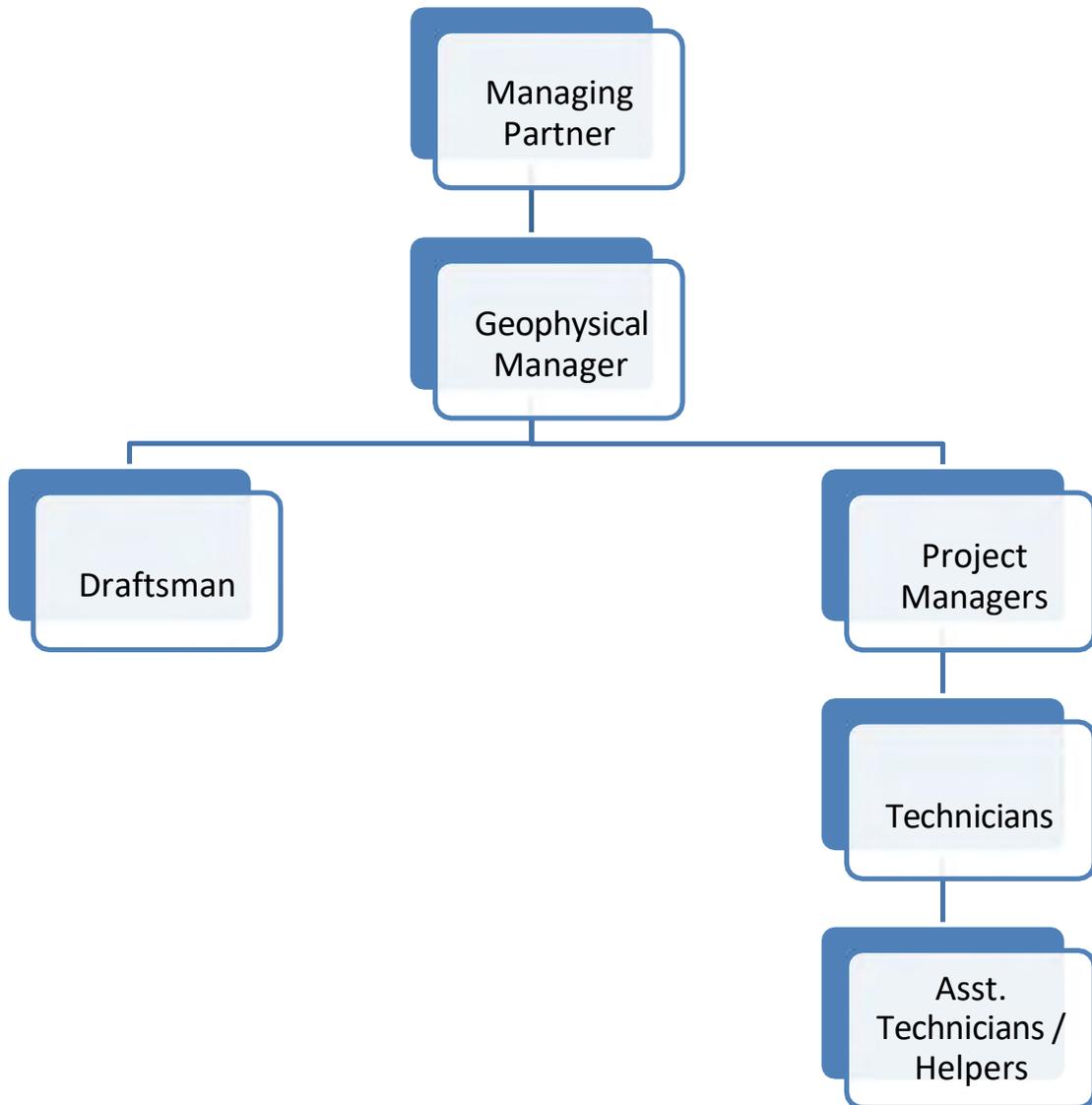
## LIST OF ACTIVITIES

- MASW (Multi-channel Analysis of Surface Waves)
- Electrical Resistivity Tomography
- Microgravity Surveys
- Electromagnetism: EM34
- Ground Penetrating Radar
- Radio Detection
- Vertical Electric Sounding
- Cross-hole seismic and electrical (direct and tomography)
- Down-hole seismic
- Refraction seismic
- Reflection seismic
- Parallel seismic
- Magnetic survey
- Gravity exploration (Macro)
- Suspension logging
- Vertical Electrical Tomography (VET)
- Cavity volume estimation-3D
- Resistivity, temperature logging
- Magnetic survey
- High definition 2D and 3D resistivity imaging
- Gravity exploration (Macro)
- Borehole Radar

## SOFTWARES

- RES2D/3D (Processing software)
- Electre Pro (Sequence management)
- PROSYS II (Data transfer, process, display)
- COMSYS PRO (control of syscal by PC)
- Surfseis 3 (Processing software)
- RADAN 6
- FGWINAD-7 MAIN-RADAN Radar Data.
- FGWINRAD7-3D MODULE FGWINRAD7-I3 Interactive 3D.

## DEPARTMENT CHART – GEOPHYSICAL INVESTIGATION



## MACHINERY & EQUIPMENT - GEOPHYSICAL INVESTIGATION



ELECTRIC LOGGING TEST



MICRO GRAVITY SURVEY



ELECTRICAL RESISTIVITY TOMOGRAPHY (ERT)



GROUND PENETRATING RADAR (GPR)

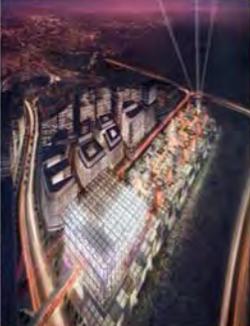


MULTI CHANNEL ANALYSIS OF SURFACE WAVES (MASW)



DOWN HOLE TEST

## SELECTED PROJECTS – GEOPHYSICAL INVESTIGATION

			
Capital District	Marina Mall	West Residential Yas Island	Al Raha Beach West
			
Emirati Housing Development	Le meridian Hotel	Dubai Eye	Flag Pole
			
Burj 2020 District	MBR Space Centre	Creative Community	Bee'ah Headquarter

# Construction Material Testing



# CONSTRUCTION MATERIAL TESTING

## LIST OF ACTIVITIES

SAMPLING OF SOIL, CONCRETE AND AGGREGATE	
Item No.	Test Name
1	Sampling of Fresh Concrete
2	Sampling of Soil and Aggregate
3	Sampling of Aggregate
4	Preparing and Testing Specimens from Shotcrete Test Panels

MECHANICAL AND PHYSICAL TESTS ON SOIL	
Item No.	Test Name
1	Moisture Content
2	Liquid Limit
3	Plastic Limit
4	Plasticity Index
5	Wet Sieve Analysis
6	Dry Sieve Analysis
7	Particle Density
8	Determination of Linear Shrinkage
9	Hydrometer Testing for Particle Size Distribution
10	Dry Density/Moisture Content Relationship
11	Dry Density/Moisture Content Relationship
12	In-situ Density Test by Sand Replacement Method
13	In-situ Density Test by Sand Replacement Method
14	California Bearing Ratio (Soaked)
15	California Bearing Ration (Un-soaked)
16	Determination of Shear Strength by direct Shear (Small Shear Box apparatus)

MECHANICAL AND PHYSICAL TESTS ON SOIL	
Item No.	Test Name
17	Loose bulk density of soil
18	Bulk density of soil
19	Maximum density of soil
20	Minimum Density of soil
21	Laboratory compaction

MECHANICAL AND PHYSICAL TESTS ON CONCRETE AGGREGATE	
Item No.	Test Name
1	Sieve Analysis (Wet)
2	Sieve Analysis (Dry)
3	Clay Silt and Dust in Fine and Coarse Aggregate by Decantation Method
4	Flakiness Index of Coarse Aggregate
5	Elongation Index of Coarse Aggregate
6	Aggregate Crushing Value
7	Sand equivalent Test for Soil and Fine Aggregate
8	Relative Density and Water Absorption of Coarse Aggregate
9	Relative Density and Water Absorption of Fine Aggregate
10	Ten Percent Fines Value of Aggregate (Dry)
11	Ten Percent Fines Value of Aggregate (Soaked)
12	Soundness Test of Aggregate by use of Magnesium Sulfate
13	Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
14	Resistance to Degradation of Large Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
15	Clay Lumps and Friable Particles in Aggregate
16	Materials Finer than 75m (no 200) Sieve in Aggregate by Washing
17	Shell Content in Coarse Aggregate

MECHANICAL AND PHYSICAL TESTS ON CONCRETE AGGREGATE	
Item No.	Test Name
18	Specific Gravity & Absorption of Coarse Aggregate
19	Specific Gravity & Absorption of Fine Aggregate
20	Mass Loss on Ignition of Light-Weight Aggregate
21	Bulk Density of Light Weight Aggregate
22	Bulk Density of Aggregate
23	Determination of Moisture Content in Aggregate
24	Unit Weight and Voids in Aggregate
25	Light Weight pieces in Aggregate
26	Drying Shrinkage of Aggregate
27	Compaction Factor Value
28	Partially Crushed faces of Aggregate
29	Fully Crushed faces of Aggregate
30	Particle size distribution (Wet)
31	Loose Bulk Density
32	Aggregate Impact Value
33	Moisture content of aggregate by drying

MECHANICAL AND PHYSICAL TESTS ON CONCRETE	
Item No.	Test Name
1	Compressive Strength of Molded Cubes (Site)
2	Compressive Strength of Molded Cubes (Lab)
3	Compressive Strength of Concrete Cores
4	Compressive Strength of Concrete Masonry Blocks (Normal Size)
5	Compressive Strength of Concrete Masonry Blocks (Large Size)
6	Dimensions of Concrete Masonry Blocks
7	Density Determination of Concrete Masonry Blocks
8	Compressive Strength of Paving Blocks

MECHANICAL AND PHYSICAL TESTS ON CONCRETE	
Item No.	Test Name
9	Dimensions of Paving Blocks
10	Water Absorption & Moisture Content of Blocks
11	Mix Design
12	Density of Concrete
13	Water Absorption of Concrete Kerbs, Channels, Edgings & Flags
14	Compressive Strength of Hydraulic cement Mortars
15	Obtaining & Testing Drilled Cores and Sawed Beams of Concrete
16	Compressive Strength of Cylindrical Concrete
17	Dimensions of Concrete Kerbs
18	Bleeding of Concrete
19	Standard Test Method For Time Of Setting of Concrete mixtures by Penetration resistance
20	Tensile Splitting Strength of Concrete Cylinders
21	Flexural Strength of concrete beam
22	Air content of Concrete
23	Unit Weight of Concrete
24	Temperature of Freshly mixed Concrete
25	Determination of Slump
26	Compressive Strength of Grout cube
27	Fluidity of grout
28	Bleeding of grout
29	Volume change of grout
30	Unit weight of grout
31	Compressive strength of Autoclaved Aerated concrete blocks
32	Dimensions of Autoclaved Aerated concrete blocks
33	Gross density of Autoclaved Aerated concrete blocks
34	Compressive strength of grout prism
35	Water absorption & density of concrete masonry unit

**MECHANICAL AND PHYSICAL TESTS ON CONCRETE**

Item No.	Test Name
36	Flexural strength of grout prism
37	Post tension grout testing
38	Drying shrinkage of concrete
39	Flow test for Self compaction concrete
40	V Funnel test for Self compaction concrete
41	L Box test for Self compaction concrete
42	J Ring test for Self compaction concrete

**DURABILITY TESTING ON CONCRETE**

Item No.	Test Name
1	Water Absorption Test on Concrete Cores
2	Rapid Chloride Permeability
3	Water Permeability
4	Initial Surface Absorption of Concrete.

**MECHANICAL AND PHYSICAL TESTS ON STEEL**

Item No.	Test Name
1	Tensile Test on Steel Reinforcement Bars
2	Bend Test on Steel Reinforcement Bars
3	Re-bend Test on Steel Reinforcement Bars
4	Testing of Coupled bars
5	Epoxy –Coated Reinforcing Steel Bars
6	Steel Strand, Uncoated Seven-Wire for Pre-stressed Concrete

**TEST METHODS FOR UTM (UNIVERSAL TESTING MACHINE)(H50kT)**

Item No.	Test Name
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TEST METHODS FOR UTM (UNIVERSAL TESTING MACHINE)(H50kT)	
Item No.	Test Name
1	Flexural Strength
2	Tear Resistance
3	Tensile Strength
4	Puncture Resistance

CHEMICAL TESTS ON SOIL, GROUND WATER, AGGREGATE, CONCRETE, STEEL, CEMENT	
Item No.	Test Name
1	Water Soluble Sulphate Content of Soil
2	Water Soluble Chloride Content of Soil
3	Acid soluble Sulphate Content of Soil
4	Acid Soluble Chloride Content of Soil
5	Organic Matter Content of Soil
6	Mass Loss on Ignition of Soil
7	Carbonate Content of Soil
8	Determination of pH Value of Soil
9	Sulphate Content of Ground Water
10	Chloride Content of Groundwater
11	Total Dissolved Solids of Ground Water
12	Determination of pH Value of Ground Water
13	Testing of Water for Making Concrete
14	Sulfate Content of Hardened Concrete
15	Chloride Content of Hardened Concrete
16	Cement content of concrete
17	Acid soluble sulphate Content of Aggregates
18	Acid soluble Chloride Content of Aggregate

**CHEMICAL TESTS ON SOIL, GROUND WATER, AGGREGATE, CONCRETE, STEEL, CEMENT**

<b>Item No.</b>	<b>Test Name</b>
19	Determination of Alkali Carbonates & Bicarbonates in Water
20	Organic Impurities in Fine Aggregate
21	Water Soluble Sulfate Content of Aggregate
22	Water Soluble Chloride Salts in Aggregate
23	Acid-Soluble Material in Fine Aggregate
24	Determining the Cement content of freshly mixed Concrete
25	Determining the Water content of freshly mixed Concrete
26	Chemical Analysis of Steel Bars
27	Chemical analysis of Cement
28	Chemical Analysis of Admixtures
29	Potential Alkali-Silica Reactivity of Aggregates
30	Organic Content of Soil by Loss on Ignition
31	Calcium hardness of Water
32	Physical Analysis of Cement
33	Chloride content of Water
34	Biochemical Oxygen Demand (BOD)
35	Total Nitrogen (T-N)
36	Total Phosphorous
37	Total Dissolved Solids (TDS)
38	Ca Content
39	Mg Content
40	Silica Content
41	Fe Content
42	Mn Content
43	Na Content
44	K Content
45	Nitrate Nitrogen (NO <sub>3</sub> -N)

**CHEMICAL TESTS ON SOIL, GROUND WATER, AGGREGATE, CONCRETE, STEEL, CEMENT**

<b>Item No.</b>	<b>Test Name</b>
46	Nitrite Nitrogen (NO <sub>2</sub> -N)
47	Ammonia Nitrogen (NH <sub>4</sub> -N)
48	Phosphate Phosphorous (PO <sub>4</sub> -P)
49	Carbonate (CO <sub>3</sub> )
50	Bicarbonate (H-CO <sub>3</sub> )
51	Sulphate
52	Total Suspended solids (TSS)
53	Volatile Suspended Solids (VSS)
54	Cd Content
55	Pb Content
56	Dissolved Oxygen (DO)
57	Chemical analysis of microsilica
58	Carbon Equivalent value
59	Water absorption of plastics
60	Water analysis
61	Total solids
62	Chemical Oxygen Demand (COD)
63	Cr Content
64	Cu Content
65	Zn Content
66	Total Hardness of water
67	Residual Chlorine
68	Conductivity of water
69	Oil & Grease
70	Nickel
71	Mercury
72	Selenium

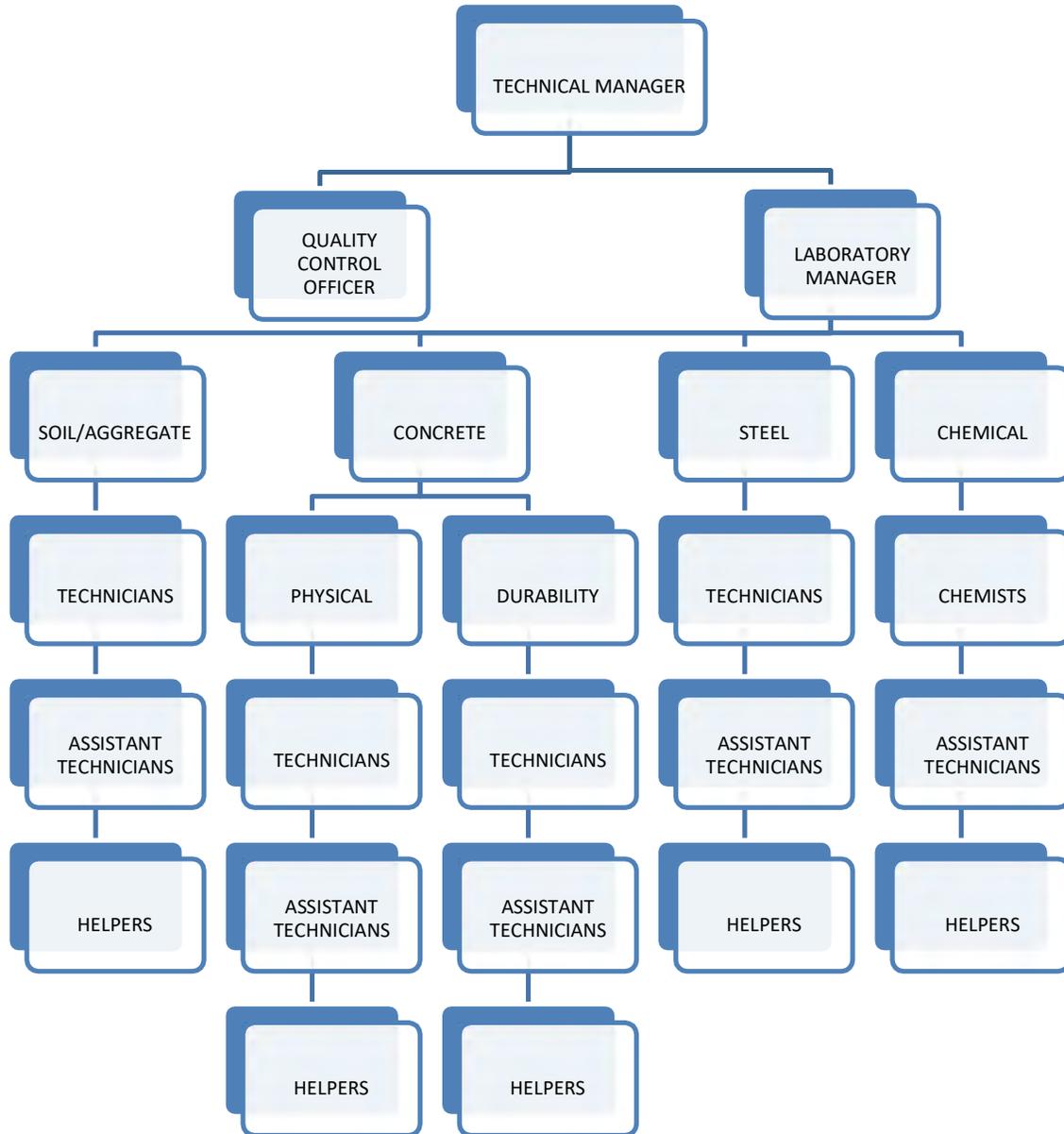
**CHEMICAL TESTS ON SOIL, GROUND WATER, AGGREGATE, CONCRETE, STEEL, CEMENT**

<b>Item No.</b>	<b>Test Name</b>
73	Silver
74	Alkali Content of concrete
75	Suitability of water

**SOFTWARE**

- Provee IT
- QMat (UTM Machine)
- Lotus Reports (In-House Reporting and Sample Management Software)

## DEPARTMENT CHART – CONSTRUCTION MATERIAL TESTING



## MACHINERY & EQUIPMENT – CONSTRUCTION MATERIAL TESTING

### TESTING



SAND EQUIVALENT TEST



UNCONFINED COMPRESSIVE STRENGTH TEST



CURING TANKS



COMPRESSION MACHINE (CONCRETE)



CONCRETE DURABILITY SECTION (WATER PENETRATION)



CONCRETE DURABILITY SECTION (RAPID CHLORIDE PENETRATION)



UNIVERSAL TESTING MACHINE (MATERIAL)



STEEL MACHINE



ATOMIC ABSORPTION SPECTROPHOTOMETER (CHEMICAL)



NITROGEN ESTIMATION APPARATUS (CHEMICAL)

## SELECTED PROJECTS – CONSTRUCTION MATERIAL TESTING

			
<b>ADH Airport Midfield Terminal Complex</b>	<b>Gems United Indian School</b>	<b>West Residential Yas Island</b>	<b>Choueifat School</b>
			
<b>Dubai Airport</b>	<b>Al Barsha National Housing</b>	<b>Majestine Allure Tower</b>	<b>Deira Islands Night Souk &amp; Boardwalk</b>
			
<b>LULU Shopping Center</b>	<b>Gulf Oasis Tower</b>	<b>Asas Tower</b>	<b>Al Falah City</b>

# PILE TESTING



# PILE TESTING

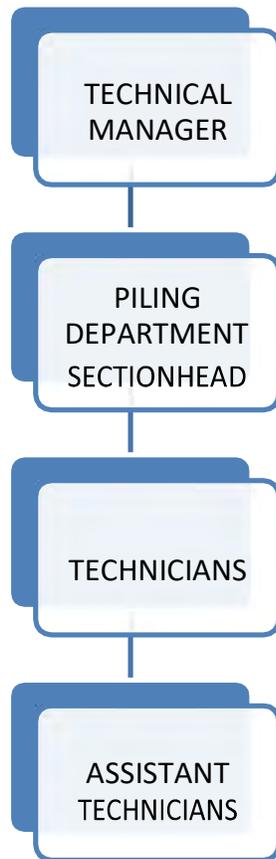
## LIST OF ACTIVITIES

- High Strain (PDA) Test for Cast In-Situ and Driven Piles
- Cross Hole Sonic Logging Analyzer (CHA)
- Mechanical Caliper Logging (MCL)
- Low Strain (PIT) Test for Cast In-Situ Concrete Piles
- Pile Instrumentation
- Supervision of Static Load Test (SLT)

## SOFTWARES

- CAPWAP
- GRLWEAP
- CHA
- Winlogger
- PitW
- Data logger

## DEPARTMENT CHART – PILE TESTING



## MACHINERY & EQUIPMENT - PILE TESTING



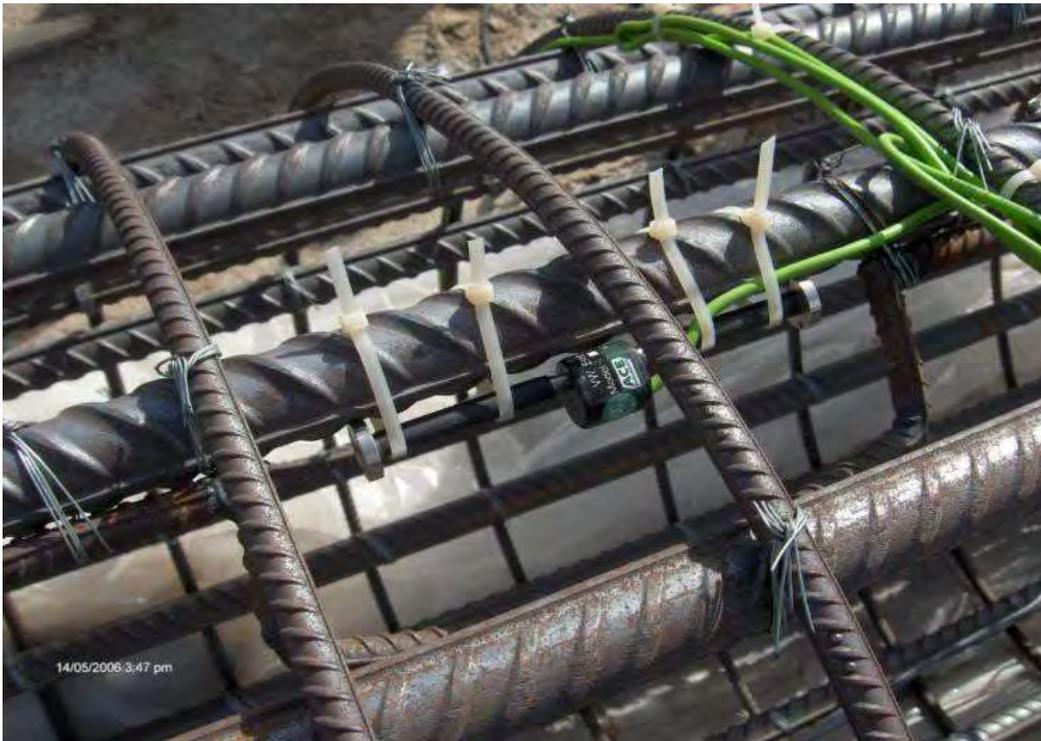
PILE DYNAMIC TESTING (PDA)



CROSS-HOLE SONIC LOGGING (CSL)



PILE INTEGRITY TESTING (PIT)



PILE INSTRUMENTATION



**Burj Khalifa**



**The Pointe**



**Atria Tower**



**Nakheel Mall**



**Sheikh Zayed Mosque**



**Sheikh Zayed Bridge**



**Emirates Conference Palace**



**Al Hillal Bank Tower**



**Sharjah City Center Expansion**



**Al Nasseria Community Mall**



**Sharjah Expo Center Extension**



**AL Qasimia University**

# Assessment, Monitoring & Testing of Concrete Structures

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# ASSESSMENT, MONITORING & TESTING OF CONCRETE STRUCTURES

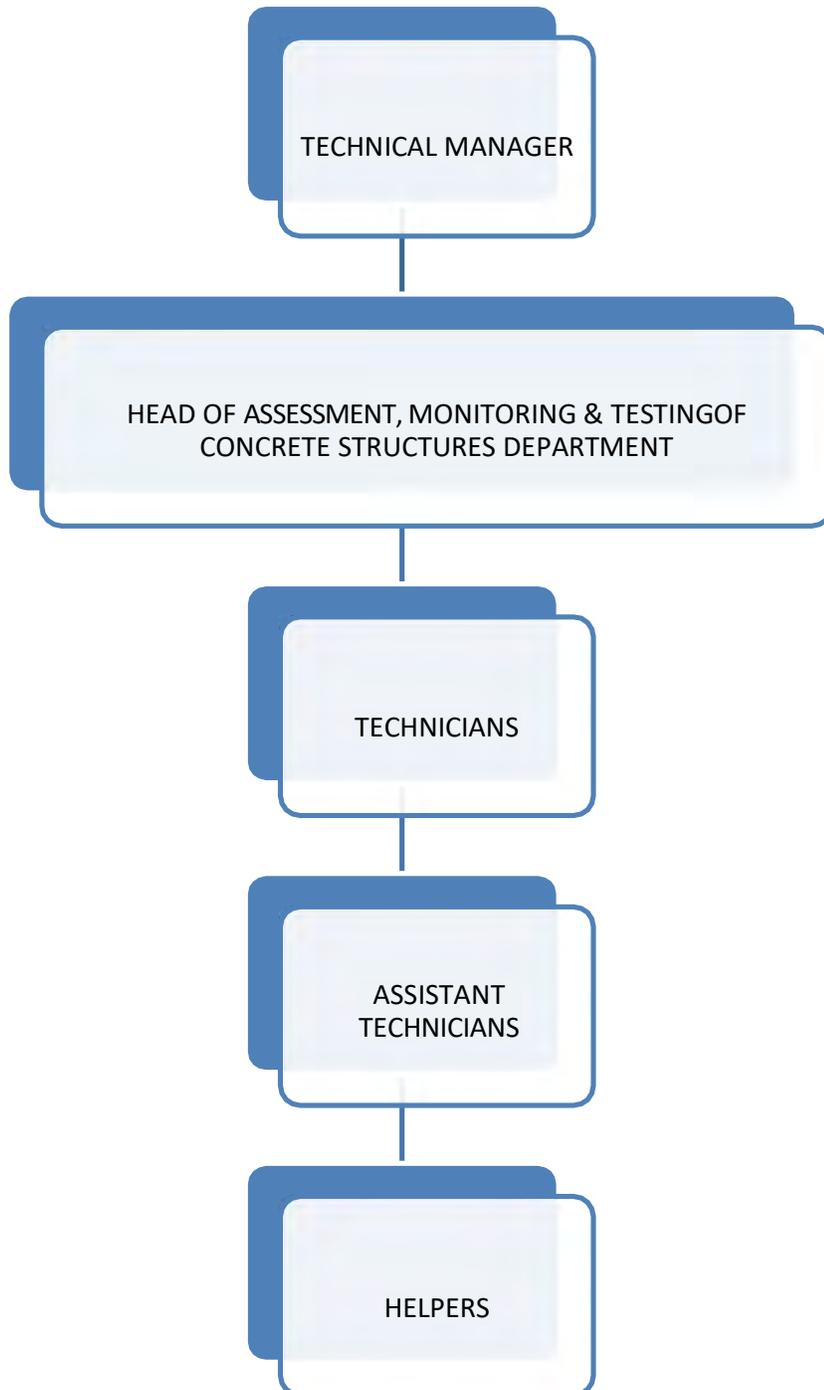
## LIST OF ACTIVITIES

- **Conditional Survey of Existing Structures (Photographic & Video Recording)**
- **Structural Monitoring, but not limited to:-**
  - Crack Monitoring
  - Tilt Monitoring
  - Settlement Monitoring
  - Column Shortening using Tape Extensometer
  - Vibration & Noise Monitoring
  - Temperature Monitoring
- **Destructive Tests**
  - Slab Load Test
  - Near to surface tests (Pull-off / Pull-out)
  - Concrete Coring
  - Drop Hammer Test
  - Carbonation Test
- **Non-Destructive Tests**
  - Localization of reinforcement steel bars inside concrete using HILTI Ferrosan PS200
  - Measurement of Ultrasonic pulse velocity inside concrete
  - Surface Hardness Testing by Rebound Hammer
- **Ground Instrumentation**
  - Inclinometers
  - Settlement Monitoring

## SOFTWARE

- HILTI - FerroScan
- Blastware (Vibration Monitoring)
- Data Taker

## DEPARTMENT CHART – ASSESSMENT, MONITORING & TESTING OF CONCRETE STRUCTURES



## MACHINERY & EQUIPMENT - ASSESSMENT, MONITORING & TESTING OF CONCRETE STRUCTURES



PULL OFF TEST



FERRO SCAN



CRACK MONITORING



CORING

**ANNEX - A**

**(CV's of Key Personnel)**

**PERSONAL DETAILS:**

Name : **Mohammad Mukaddam**  
Nationality : **Lebanese (UAE Resident)**  
Position : **Managing Partner**

**EDUCATIONAL QUALIFICATIONS:**

**Post Doctoral Fellowship** University of California - Berkeley, California - Summer 1973.  
University of California - Berkeley, California - Fall 1983.

**Ph.D** University of California - Berkeley, California - 1969.  
Major: **Structural Engineering and Structural Mechanics.**  
Minor: Soil Mechanics and Foundations, Applied Mechanics.

**M.Sc.** University of California - Berkeley, California - 1966.  
Major: **Structural Engineering and Structural Mechanics.**  
Minor: Soil Mechanics and Foundations.

**B.E.** American University of Beirut (A.U.B.) - 1965.  
Major: **Civil Engineering** (with distinction).

➤ **Teaching experience & extracurricular activities at the American University of Beirut**

- Joined the Faculty of Engineering and Architecture in July 1970 as Assistant Professor of Civil Engineering.
- Promoted to the rank of Associate Professor in July 1974.
- Promoted to the rank of Full Professor in July 1986.
- Served as Chairman of the Civil Engineering Department from 1980 to 1986
- Served as Associate Dean of Faculty of Engineering & Architecture from 1985 to 1987.
- Has taught the following undergraduate courses: statics, structures, concrete, strength of materials, soil mechanics and foundations and science of material.

Has introduced and taught the following graduate courses: finite element method, advanced structural analysis, advanced mechanics of solids and engineering analysis

➤ **Since 1976 to date**

Established a Geo-technical Consulting Firm for Testing of Soils and Building Materials called “**I&M Engineering**” in Sharjah. Then in 1986 established “**Mohammad Mukaddam Est. for Soil**

**Investigation**” in Dubai. In 1999, partnered with Mr. Jamal Al Hai to create “**Al Hai & Al Mukaddam for Geotechnical Works**” which operates in Dubai and Abu Dhabi. The main activities of the firm include: (copy of Company Profile is included)

- Soil investigation - Analysis and Recommendations.
- Material Testing - Quality Control.
- Low Strain and High Strain Dynamic Testing of Piles.
- Testing of concrete in existing structures.

Assessed hundreds of existing structures in the Middle East in terms of testing the quality and durability of the reinforced concrete (destructive and non-destructive) and checking the durability and safety of the related structures etc... Has designed several important structures and acted as structural consultant to leading design offices in the Gulf.

#### **PUBLICATIONS:**

- “Use of Expansive Cement for Pre-stressing tendons in Concrete Beams” SESM report, University of California, Berkeley 1966.
- “Behaviour of Concrete under Variable Temperature and Loading” SESM report, University of California, Berkeley, September 1969. Sponsored by UNION CARBIDE, Atomic Energy Commission, U.S.A.
- Presented a paper in Madrid, Spain, 1970 in the Symposium of International Association for Bridge and Structural Engineering on “Design of Concrete Structures for Creep, Shrinkage and Temperature Changes” which was published in the final report (pp. 301 - 310).
- A paper was presented by Mukaddam and Bresler on the “Behaviour of Concrete and Concrete Structures under Long Term Thermal Effects - ACI International Seminar on Concrete for Nuclear Reactors” held in Berlin, West Germany, October 1970 (pp. 771 - 779).
- “Effects of Fire on Reinforced Concrete Structures” SESM report, University of California, Berkeley 1973.
- “Creep Analysis of Concrete at Elevated Temperatures” ACI Journal, February 1974.
- “Concrete in Lebanon” Lebanese Council for Scientific Research - 1975.
- “Behaviour of Reinforcing Bars in Reinforced Concrete Joints Under Cyclic Loading” American Society of Civil Engineers, Structural Division - By Mukaddam and Kasti - 1986.
- “Compaction of Concrete by High Frequency Vibration” Research and Construction Journal, Iraq - 1987 - By Mukaddam.

- “Inversion of the Compliance Functions by the Laplace Transformations” American Society of Civil Engineers, Journal of Engineering Mechanics, vol. 113 No 10, October 1987 - By Mukaddam and Zaim.
- “Behaviour of Reinforced Concrete Joints subjected to Earthquake Loading” American Society of Civil Engineers, Structural Division, vol. 114 No 9, September 1988 - By Mukaddam and Harajli.
- “High Strain Dynamic Testing of Cast in-situ Piles in U.A.E.” This paper was presented at the 5th International Conference on the Application of Stress-Wave Theory to piles in Orlando, September 96. (Published in the final report pp. 805 - 822).
- “Hammer System Design Using Wave Equation Analysis for Testing Cast-in-Situ Concrete Piles”. This paper was presented at the 6<sup>th</sup> International Conference on the Application of Stress Wave Theory to Piles in Sao Paolo, September 2000 and published in the final report (pp. 91 – 97)

## ADEEB ELIAS SAWAYA

### Operations Manager

#### QUALIFICATIONS

2001- University of Kentucky Faculty of Civil Engineering – U.S.A.

B.Sc. Civil Engineering

#### PROFESSIONAL TRAINING

**March 2002:** Training in the use of PDA, CHA, PIT, CAPWAP, and PITWAP by M/s. Pile Dynamics.

**September 2002:** Attended PDA/CAPWAP Workshop course conducted by M/s. Pile Dynamics Inc Cleveland/Pile Dynamics Europe and GSP in Germany.

#### PROFESSIONAL EXPERIENCE

**June 2009 - Till Date**

Working as a **Acting General Manager / Operations Manager** reporting directly to the Managing Partner.

#### **Duties: Include and not limited to**

- Planning and implementing different internal laboratory auditing programs.
- Reviewing the effectiveness of the quality system in all aspects of the company.
- Performing laboratory and on site quality control tests for construction material according to relevant standards (AASHTO, ASTM and BS).
- Interacting with Dubai Municipality for external auditing and other quality system related issues (Amendments, equipment calibrations, etc...).
- Supervising the execution of deep foundations in some of the major projects.
- Supervised main soil investigation projects (on land and off-shore) on different sites and prepared factual as well as final interpretative reports.
- Supervising the execution of deep foundations and soil improvement and implementing quality assurance measurement according to international standards and projects specifications.
- Involved in many geo-technical and quality control activities on construction projects as well as existing structures, material quality control and assessment of concrete quality in existing structures (destructive and non-destructive).
- Planned and implemented the quality system for insuring the first accreditation certification of soil investigation from M/s Dubai Municipality in the Emirate of Dubai.

**June 2005 - Till June 2009**

Working as a **Operations Manager** reporting directly to the Managing Partner/Technical Manager

**Duties: Include and not limited to**

- Interacting with clients (consultants, contractors & local government authorities) and coordinating field works.
- Planning and supervising geotechnical site investigation programs including field and laboratory works and responsible for assuring and maintaining high level of quality in all aspects of the field testing system.
- Preparing a comprehensive soil investigation report including foundation recommendations and soil improvement methods.

**February 2002 till June 2005**

Worked as a Geotechnical Engineer (**Al Hai & Al Mukaddam for Geotechnical Works**)

**Duties:**

- Supervising main soil investigation projects (on land and off-shore) on different sites and prepared factual as well as final interpretative reports.
- Expert on using different drilling techniques to ensure more than 90% recovery during geotechnical investigations.
- Responsible for designing and manufacturing our own in-house drilling rig.
- Performed Integrity and Dynamic Testing on Piles as well as analysis and interpretation of measurements by means of sophisticated software (PITWAP, WEAP and CAPWAP).
- Supervising static pile load testing in major projects.
- Acting as a Geotechnical Engineer consultant on major project.
- Supervising the execution of deep foundations and soil improvement and implementing quality assurance measurement according to international standards and projects specifications.
- Performing Sonic Core Tests for pile foundations.
- Performing Caliper logging Tests for pile foundations.
- Pile instrumentation by means of vibrating wire gauges and submitting the final interpretive report.

**Computer Skills**

MS office, Windows 95-98, C++, Q Basic, Visual Basic, AutoCAD, Kenpave, KY Frame, HCS Transt 7F and Maple

## **BASSEL MUKADDAM**

Director

### **EDUCATIONAL BACKGROUND**

- |             |  |
|-------------|--|
| 1998 – 2001 | American University of Beirut Business Dept. Graduated in 2001 from the American University of Beirut with a Bachelor in Business Administration.  |
| 1996 – 1998 | A.U.B Faculty of Engineering & Architecture<br>Took courses in sciences and engineering.<br>Graduated in 1996 with a High School Diploma from the International School of Chouifat- Sharjah. |

### **PROFESSIONAL EXPERIENCES**

**December 2004 – Till Date**

**Worked as an Administrative Manager (Al Hai & Al Mukaddam for Geotechnical Works) reporting directly to the Managing Partner**

#### **Duties and responsibilities:**

- Day to day Administration of the establishment.
- Verification and approving of day-to-day accounts, expenses etc.
- Make sure of proper implementation of purchasing Procedures.
- Responsible for all Personal matters such as Visas, Contracts etc. of the employees.
- Responsible for all IT matters including maintenance and back up of Systems.
- Monitoring of Quotations submittals of reports, collection of Invoices etc.
- Responsible for the insurance of workers, Vehicles, Equipment and Machineries.
- Monitor the overall performance of the establishment to ensure Customer satisfaction.

#### **> 2001 – 2004**

**Assistant Manager, Accounting Department, BLOM Bank.**

#### **Duties and responsibilities:**

- Preparation of all financial statements, such as balance sheets and income statements.
- In charge of shareholder management, including dividend distribution.
- Monthly tax returns.
- Played a part in implementing the new Continuous Settlement System (CLS) for forward operations at the bank.

- Attended two seminars regarding IAS 39 & IAS 42, and one seminar regarding the Lebanese Tax System.

**Training Attended**

- Uncertainty Measurements in Calibration and Testing (LMQ)
- Lead Assessor Training Course of ISO 17025 (ICS)
- Environmental Auditing (AFAQ-ETA)
- Occupational Health and Safety (NEBOSH)
- Seminars regarding IAS 39 & IAS 42, Lebanese tax system.

**Computer Skills**

Have good command in Microsoft Excel, Word, and Visual Basic.

## **ALI ABDEL AZIZ ALI**

### Technical Manager

#### **EDUCATION**

**College: -**

Graduated from Faculty of Engineering – Civil Engineering Department (Geotechnical) - 2007  
Benha University – Shoubra  
Overall Grade – Very Good

#### **ENGINEERING SOCIETIES**

- Egyptian Engineering Syndicate – Cairo - Egypt
- Society of Engineers – UAE
- Authorized Engineering Card - Civil (Geotechnical) – Sharjah Municipality & Director of Public Works

#### **PROFESSIONAL EXPERIENCE**

**Since June 2009 till present** working as a **Technical Manager** reporting directly to the General Manager

**Duties: Include and not limited to**

- Interacting with clients (consultants, contractors & local government authorities) and coordinating field works.
- Planning and supervising geotechnical site investigation programs including field and laboratory works and responsible for assuring and maintaining high level of quality in all aspects of the field-testing system.
- Preparing a comprehensive soil investigation report including foundation recommendations and soil improvement methods.

**From October 2007 till June 2009 Geotechnical Engineer in Al Hai & Al Mukaddam for Geo-Technical Works**

- In charge of preparing and finalizing the Soil Investigation Reports including the compilation of the report and preparing recommendations to suite both the current soil conditions and structural requirements.
- In charge of the preparation of tender documents as well as technical proposals for prestigious project.

- Acting as a document controller on prestigious project and ensuring the delivery of the correspondence to the concerned personnel as well as responding to technical requirements based on the contract details.
- Developing In-house data processing programs to suite the requirements of the works.
- Handle all laboratory tests related to Soil Investigation activities as well as processing the test results to obtain reports.
- Conduct all in-situ tests related to Soil Investigation.
- Monitor of Gas Imitations from within the boreholes.
- Capable of conducting and carrying out Survey works.
- Co-ordination of site works.
- Site supervision of drilling works on site as well as real-time monitoring of the drilling parameters (DPM) (Diagraphy Drilling)
- Health & Safety Supervision on site
- Handle Material Testing related to Universal Testing machine.
- Introduce new Testing Routines for the Automated Universal Testing Machine.
- Conduct Non-Destructive Testing including Ultra Sonic Testing, Crack Monitoring, Schmidt Hammer, etc. Including the generation of reports.
- Capable of programming Data Taker to undertake any data processing required and produce the output in the desired Engineering Units, using in built Programming of the Data Processing Unit.
- Simple modeling of sub-surface conditions and soil-structure interaction on Plaxis.
- gINT Software Data Entry from October 2007 and promoted to gINT Software Manager since November 2008.

#### **COMPUTER SKILLS**

- Advanced User of Microsoft Office 2000, 2003, XP and 2007 (Word (including in-housed XML and VBA), Excel (including in-housed VBA), PowerPoint, Front page)
- gINT Software (Geotechnical Works)
- Global Mapper v11& v12 (GIS and Mapping Software)
- SAP v9.2
- SAFE
- AutoCAD 2007 & AutoCAD 2009 (2D)
- Geostudio 2004 (GeoSlope 5.0 - Slope Stability Analysis)
- GonSite (CPT Software)
- Go4 (CPT Analysis)
- CPeT iT (CPT Interpretation)

- Geovision (Diagraphy Drilling Software)
- Datalogger (Data Processing and Analysis)
- QMat (Universal Testing Machine)
- TGOoffice (Survey Works)
- Web Page Design (HTML, CSS, Java 1.2, Flash 5.0)
- Basic knowledge of VBA and SQLScripting.

## **AZIZ ZERAIDI**

### **Geophysical Area Manager**

#### **ACADEMIC QUALIFICATIONS**

- 1990 - 1991 Pierre et Marie Curie - PARIS VI University DESS of geophysical
- 1989 - 1990 Faculty of Science PARIS University – SUD-XI Modules of Geophysics applied to the Civil Engineering
- 1984 - 1987 University Mohammed Ben Abdellah - MOROCCO Geological diploma

#### **INSTITUTION**

- Member of USG – Union Syndical Geotechnics
- Member of board of AGAP (Association for quality in Applied Geophysics)

#### **TEACHING**

- Teaching assistant – University Mohammed Ben Abdullah - 1987 – 1988 - Geophysics

#### **PUBLICATIONS**

- Cavity detection 2005 – Flavigny-Le Grand, France Franceff : Search tunnel under a church by geophysical methods (Microgravity, GPR and Electric Cylinder).
- EG10, Conference on Engineering Geophysics. 11 - 14 December 2011. Al Ain, United Arab Emirates: Site Investigation Methodology (Microgravity, GPR and Electric Cylinder) – exemple of Ministry of interior project in Doha Qatar.

#### **PROFESSIONAL EXPERIENCE**

##### **Since March 2013 Working as Geophysical Area Manager of Al Hai & Al Mukaddam for Geotechnical Works (LLC)**

In charge of.

- Business Development and Marketing

##### **2010- 2013 Working as a Manager of SOLDATA Geophysical Department, Abu Dhabi branch and Middle East**

In charge of

- Technical Manager of Soldata Abu Dhabi branch and Middle East
- Business Development and Marketing for Soldata Middle East
- Geophysical Department Manager for Soldata Qatar

**2006–2010 - Européenne de Géophysique – Nanterre 92 North and West Branch**

- Business Development and Marketing - all Geophysical methods

**2001–2006 - Européenne de Géophysique – Nanterre 92 North as Branch Manager**

- Business Development and Marketing
- Non Destructive specialist (Microgravity)

**1996–2001 - Europeenne de Geophysique - Nanterre 92 North and West Branch**

- Business engineer in charge of operation Organization and technical development

**1991–1996 – Techsol - Nanterre 92 North and West Branch**

- Business engineer – Marketing
- Site engineer operation – all Geophysical methods

**SOME OF MAJORS PROJECTS EXECUTED AS PROJECT MANAGER AND GEOPHYSICAL DEPARTMENT MANAGER**

**Cavity Detection Projects**

- Project of near surface cavity detection, utility detection, shallow stratigraphy, gravity and EM modeling underground water exploration and bed rock profiling in UAE, Qatar.
- Worked for geophysical survey including data acquisition, processing, interpretation, borehole allocation and Final Reporting for Ministry of interior project, Qatar, 2011. Techniques include Microgravity (1500 points), GPR and Electric Cylinder.
- Worked for geophysical survey at jebel Hafeet (180 000 points of ERT), AL AIN, UAE. Techniques include MASW, ERT and GPR.
- Worked for geophysical survey for BLOOM, AL AIN, UAE. Techniques includes ERT and EM34.
- Worked for geophysical survey at GHAREBA EMIRATI HOUSSING Project, AL AIN, UAE for KEO and SOROUH. Techniques include MASW, ERT and EM34.
- Worked for geophysical survey at GHAREBA EAST - EMIRATI HOUSSING Project – Phase 2, AL AIN, UAE for WSP, EWAN and SOROUH. Techniques include MASW, EM34 and Electric Cylinder for volume estimation of cavities.
- Cavity detection, Techniques includes Microgravity (4500 points), Electric Cylinder, city of SANTANDER in Spain.
- Project of the Souks of BEYROUTH (1997 (Microgravity 2000 points) and Junieh in LEBANON 1998 (Microgravity 1200 points)
- Escapes of dam – SYMVOULOS in CYPRUS
- Towns of PARIS, CAEN, ARRAS in FRANCE (microgravity and GPR)

- Railway lines of SNCF in FRANCE, 2001: Northern TGV (more than 10,000 stations of microgravity), 6 month duration, Total amount: 0.7 millions €).
- Railway lines of SNCF in FRANCE, 2003: Northern TGV (more than 19,000 stations of microgravity, one year duration, 16 Engineers, 32 technicians and 16 helpers, Total amount : 1.5millions€).
- Projects of Motorways, works of civil engineering

## AHMED MOHAMMED EL HOSARY

### Laboratory Manager

#### **QUALIFICATION**

Bachelor of Science from the University of Tanta – Egypt

Major:-

Geology

Minor:-

Chemistry

(General chemistry, Physical chemistry, Organic chemistry, Geochemistry, Non-organic chemistry)

#### **PROFESSIONAL EXPERIENCE**

##### **2007 to present: Working with M/s. Al Hai & Al Mukaddam for Geotechnical Works as Lab Manager**

- Conducts regular monitoring on the productivity of the laboratory sections in terms of the work load and ensure that the specific time frame set by the client is being satisfied while maintaining a quality service.
- Held responsible for checking the needs of senior technicians (i.e. equipment, purchase requests, labour, stock and other facilities).
- Guarantees the required stability considering the volume of work on hand relative to the capacity of the laboratory.
- Performs periodic spot-checking of the technicians working on particular sites.
- Follow up calibration schedule based on necessity and requirements.
- Recommends purchase of new equipment depending on the needs of each section. Checking safety measures of all employees and take suitable corrective actions, if needed.
- Responsible for the proper handling and maintenance of all laboratory equipment.
- Report immediately to the Technical Manager and/or Operations Manager the break down or malfunctioning of any equipment in addition to the occurrence of unforeseen incidents.
- Propose to the Technical Manager and/or Operations Manager amendments/modification of an adopted procedure in the day-to-day functioning of the Sections.

##### **2004 to 2007: Working with M/s. Al Hai & Al Mukaddam for Geotechnical Works L.L.C.**

- ☒ Receiving and Visual Identification of Samples retrieved from within the boreholes for Engineering Purposes.
- ☒ Sample Description for Soil & Rock as per the relevant British Standard for Engineering Purposes.

- ☐ Selecting samples for conducting all necessary laboratory testing to suite the project requirements and meet the demands required for the design.
- ☐ Geologic mapping, sampling, testing, with high level of quality
- ☐ Supervision of in-situ testing including field testing as well as Site Supervision
- ☐ In charge of conducting all in-situ tests related to Soil Investigation (CPT, P.S. Logging, Pressure meter Testing, Packer Testing, Gas Monitoring, etc.).
- ☐ Wide range of coordination with the Operation Manager, Project Managers, concerned authorities as well as to the site people throughout the duration of the job.
- ☐ Conducting regular visits and spot-checking on site to ensure that the drilling works and other relative testing are being carried out in accordance with the standard operating procedures in addition to the agreed guidelines set by the Client/Owner/Contractor of the project.
- ☐ Head of Non-Destructive Testing Department.
- ☐ In charge of conducting and reporting All Non-Destructive Testing conducted on site.
- ☐ Assessing of existing structures.
- ☐ Localization of steel reinforcement of steel in concrete using Ferro SCAN (HILTI/PS200)
- ☐ Temperature monitoring of Concrete during and after casting using Digital Data Takers and Manual Readings
- ☐ Conducting Non-Destructive Testing including:-
- ☐ Ultrasonic Measurement of velocity in concrete.
- ☐ Pull-off Strength of Concrete
- ☐ Schmidt (Rebound) Hammer
- ☐ Slab & Crack Monitoring of existing concrete structures

### **PROFESSIONAL TRAINING**

- ☐ Use and Maintenance of Pressure Meter Equipment conducted by M/s. OYO & M/s. ROBERTSON GEOLOGGING LIMITED
- ☐ Applications of Data Takers conducted by M/s. AL BAYAN EQUIPMENTS under direct supervision of M/s. DUBAI MUNICIPALITY

### **COMPUTER SKILLS**

- ☐ Microsoft Office (Word, Excel, PowerPoint, Front page)
- ☐ AutoCAD 2007
- ☐ Data logger (Data Analysis)
- ☐ QMat (Universal Testing Machine)
- ☐ Internet

- ☐ Digital Suspension PS Logger (Version 3.00 - Robertson Geologging Limited)
- ☐ GLOG-SUS. Version 1.12 (OYO Corporations Suspension P.S. Logging - Data Analysis and Reporting)

# ISLAM ABDEL FATEH MOHAMMED

## Geotechnical Manager

### QUALIFICATION

Bachelor of Science from **Al-Azhar University in Cairo, Egypt, 2006**

Major: - Geology

Overall Grade: - Very Good

### PROFESSIONAL EXPERIENCES

**2010- Till date Geotechnical Engineer Al Hai & Al Mukaddam for Geotechnical Works.**

**Duties & Responsibilities: -**

- ☒ In charge of preparing and finalizing the soil investigation reports including the compilation of the report and preparing recommendations.
- ☒ Shallow and deep foundation assessment.
- ☒ Earthwork assessment and preparation of sitework specifications.
- ☒ Geohazard analysis (liquefaction, landslide and etc.).
- ☒ Perform geotechnical analysis and study to assess construction site condition.
- ☒ Develop proposals and determine cost and schedule for geotechnical investigations.
- ☒ Prepare specifications, boring logs and cross sections.
- ☒ Handle all laboratory tests related to soil investigation activities as well as processing the test results to obtain reports.
- ☒ Conducting regular visits and spot-checking on site to ensure that the drilling works and other relative testing are being carried out in accordance with the standard operating procedures in addition to the agreed guidelines set by the client/owner/contractor of the project.
- ☒ Attending in meetings with clients and authorities who are partaking into the soil investigation activity.
- ☒ Supervising main soil investigation projects (on land and off-shore) on different sites.
- ☒ Providing a wide range of geological support and geotechnical guidance.
- ☒ Improving production by implementing latest methods & techniques in data acquisition and mathematical processing.
- ☒ Evaluate team performance and determine training needs to meet performance objectives.

- ☒ Manage geotechnical and geological analyses, manage staff and supporting subconsultants and studies, conduct research, perform preliminary geological reconnaissance, geotechnical and geological studies, review testing results, and develop design recommendations.

#### **2006 – 2010 Engineering Geologists at Al Hai & Al Mukaddam for Geotechnical Works.**

##### **Duties & Responsibilities: -**

- ☒ Receiving and visual identification of samples as per the relevant British standard for engineering purposes.
- ☒ Describing soil retrieved from boreholes and trial pits based on visual classification and on evaluation of laboratory tests.
- ☒ Describing rock obtained from rotary core drilling in boreholes and from ground excavation.
- ☒ Selecting samples for conducting all necessary laboratory testing to suite the project requirements and meet the demands required for the design.
- ☒ Conduct all in-situ tests related to Soil Investigation, including: -
  - CPT.
  - P.S. Logging.
  - Pressure Meter Testing
  - Falling Head Permeability Test.
  - Packer testing.
  - Plate load test.

##### **PROFESSIONAL TRAINING**

- **August 2015:** “General Requirements for the Competence of Testing & Calibration (ISO/IEC 17025:2005” conducted by M/s. Abu Dhabi Quality and Conformity Council.
- **March 2012:** “Mini MPA Course” conducted by M/s. international academy for training and consulting.
- **February 2012:** “Self-Management and Life Planning Course” conducted by M/s. Canada Global Center.
- ☒ **October 2006:** General & conversational English course.

##### **COMPUTER SKILLS**

- ☒ Advanced user of Microsoft Office
- ☒ Adobe Photoshop
- ☒ gINT Software (Geotechnical works)

- ☒ Qmat (Universal Testing Machine)
- ☒ Global Mapper V11& V12 (GIS and Mapping Software)
- ☒ GonSite (CPT Software)
- ☒ Go4 (CPT Analysis)
- ☒ CPeT iT (CPT Interpretation)
- ☒ Geovision (Diagraphy Drilling Software)

<b>FARID KIAME, PROJECT MANAGER</b>
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**PERSONAL DETAILS:**

Name : **Farid Kiame**  
Nationality : **Lebanese**  
Position : **Project Manager**

**EDUCATIONAL QUALIFICATIONS:**

**2016 – 2017** International Diploma in Project Management  
Brentwood College UK

**2001 – 2004** Bachelor degree of Information Technology 2001–2004  
CET University, Zahle, Lebanon

**CERTIFICATIONS:**

**2008** - Construction Site-General safety  
**2017** - Advanced Applications of CAPWAP Software  
**2017** - Wave Mechanics & Proper Practices  
**2018** - Project management Program (PMP) Cambridge  
**2020** - AutoCAD 2D

**PROFESSIONAL EXPERIENCE:**

**2007 – Till date working as Project Manager**

**Duties: Include and not limited to**

- Facilitate proper coordination with Operation Managers, Project Managers, concerned authorities, site crew and other concerned individuals involved in field works in order to ensure smooth site activities and operations during the soil investigation works.
- Conducting regular visits and spot-checks on site to ensure that the drilling works and other relative testing are being carried out in accordance with the standard operating procedures in addition to the agreed guidelines set by the Client/Owner/Contractor of the project.

- Updating the Operation Managers about the development of site works and evaluating concerns arising from the same.
- Make sure that the needs of the site crew are taken into priority. It does not only comprise of their personal necessities such as the first aid kits but as well as taking immediate action in cases of equipment breakdown, shortage of facilities and other vital aspects that could hinder the site operations.
- Attending meetings with clients and authorities who are partaking into the soil investigation activity.
- Liaising with other departments during preparation of legal and technical documents needed to obtain the necessary statutory approvals.
- Responsible for supervising subcontractors, suppliers and vendors who are working on the site.
- Responsible for appraisal, recommendation and give support to change request and onsite change orders.

**COMPUTER SKILLS:**

- Advanced User of Microsoft office
- AutoCAD 2D
- Go4! - CPT data
- CPeT-IT - CPT data

## MANEKSHA P.S

### Quality Control Officer

#### EDUCATIONAL QUALIFICATIONS

**B. Tech** Sree Buddha College of Engineering, Kerala University, India (2007-2011)  
Major- Mechanical Engineering

#### PROFESSIONAL EXPERIENCES

Since May 2019 till present working as a **Quality Control Officer** reporting directly to the General Manager/Director

#### **Duties and Responsibilities:**

- Responsible for Documentation, implementation and Maintenance of Quality Management System in accordance with ISO: 9001:2015 and ISO/IEC 17025: 2005 & 2017 requirements at all branches in GCC.
- Monitor the effectiveness of the Quality System by conducting audits in accordance with the Corporate or Project Quality System Audit Schedule as appropriate.
- Track quality problems and expedite their resolution.
- Interact with Dubai Municipality, Emirates International Accreditation Centre-EIAC (Previously Dubai Accreditation Centre- DAC), DM-DCLD (Dubai Central Lab- Calibration & Metrology Division), ENAS (Emirates National Accreditation System, Abu Dhabi), ESMA (Emirates Authority for Standardization & Metrology) and QRS (ISO 9001) for external auditing and other quality system related issues (Amendments, Equipment calibrations, etc.)
- Prepare and Review Project Quality Plans in accordance with Company Policy and Contractual requirements.
- Monitoring laboratory quality control test for construction material according to relevant standards (BS, ASTM, AASHTO, APHA).
- Perform Internal Calibration of apparatuses and equipment such as Thermometers, Test sieves, Go not go gauges, Vicat apparatus, Blaine permeability apparatus, stopwatch, large pouring cylinder, Sand Equivalent Shaker, Los Angeles Machine, Vibrating Hammer, CBR mould, surcharge disc and many more.
- Develop New Testing Activities and its implementation.
- Investigate customer complaints and find out discrepancies.
- Revising the quality manual if needed.
- Maintenance of equipment records, IQC system, staff training as well as authorization records, calibration records and other documents.

- Prepare audit checklists, undertake audits and issue audit reports in accordance with the audit schedule.
- Responsible for reviewing and approving test worksheets and reports, and providing technical support to operation staff when needed.
- Responsible for maintaining the preventive maintenance plan and calibration of equipment.
- Providing training for new laboratory analyst.
- Interacting with various clients with regards to the testing that needs to be done.

**From September 2017 till May 2019 as Asst. Quality Control Officer in Al Hai & Al Mukaddam for Geo-Technical Works LLC**

**Duties and Responsibilities:**

- Responsible for Documentation, implementation and Maintenance of Quality Management System in accordance with ISO: 9001:2015 and ISO/IEC 17025: 2005 & 2017 requirements at all branches in GCC.
- Prepare, review and conduct internal audits, internal quality control.
- Investigation of customer complaints, customer feedbacks, and other Nonconformities if any.
- Internal calibration of Equipment.
- Act as Management representative during External audits (DAC, ENAS, and QRS).
- Liaison with customers, regulatory authorities and accreditation bodies.

**From July 2015 till September 2017 as Quality Control Officer in Al Hai & Al Mukaddam Qatar for Geo-Technical Works WLL**

**Duties and Responsibilities:**

- Responsible for implementation and maintenance of ISO 9001: 2015 Certification, ISO/IEC 17025:2005 accreditation and Qatar Construction Specifications (QCS) 2014 requirements.
- Develop, recommend and carry out Quality Assurance programs,
- Monitor Quality Assurance activities to determine conformance with policy, procedures and sound practices,
- Ensure that all the requirements of the Quality Manual and its related documentation are met,
- Coordinates and/or conduct the internal technical auditing in all aspects of the Quality Management System in accordance with ISO/IEC 17025:2005, ISO 9001:2008, Ministry of Environment in Qatar, ASHGHAL Quality and Safety Department regulations.
- Preparation of audit and calibration schedule.

- Coordinate and/or conduct the investigations of customer complaints.
- Recommend to the Office General Manager for his approval, any proposal for modification in the quality assurance system of the Establishment,
- Wherever necessary, identifies, develops, and implements improvement of the Laboratory measurement capability to meet the requirements of Client, Accreditation, Certification and regulatory authorities.
- Maintains, analyzes and updates statistical data and/or control charts.
- Maintains quality manual and related Quality documents.
- Implements good laboratory practices by providing instruction and training as needed, develops work plans and procedures, and requires that these be followed to improve the quality of day-to-day operations.
- Organize the annual Management review meeting and documentation of the proceedings.
- Act as Management representative during External audits (DAC, ASHGHAL (Public Works Authority), and MOE Qatar) and MR Meetings.

**From August 2013 till July 2015 as Internal Auditor in Al Hai & Al Mukaddam for Geo-Technical Works LLC**

**Duties and Responsibilities:**

- Documentation, Implementation and Maintenance of Management System ISO/IEC 17025: 2005 and ISO 9001:2008.
- Internal auditing as per ISO/IEC 17025:2005 and ISO 9001:2008 requirements.
- Conducts internal calibration. Organize MR meeting. Investigation of Customer complaints and non-conformities and follow up actions.

**PROFESSIONAL TRAININGS**

- Internal Audit & Awareness Training Course in accordance with ISO 17025: 2005, Dubai Accreditation Department (DAC).
- ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories, Emirates National Accreditation System (ENAS).

**ANNEX - B**  
**(AHAM CERTIFICATES & LICENSES)**

# Economic License

Professional License

License No	:	CN-1064993	:	رقم الرخصة
ADCCI No	:	188579	:	عضوية الغرفة
Establishment Card MOHRE	:		:	وزارة الموارد البشرية والتوطين: بطاقة المنشأة
Establishment Card ICA	:		:	الهيئة الاتحادية للهوية والجنسية- بطاقة المنشأة
Legal Form	:	UAE Branch - Dubai	:	الشكل القانوني فرع اماراتية - دبي
Trade Name	:	AL HAI & AL MUKADDAM GEOTECHNICAL WORKS - L L C - ABU DHABI BRANC	:	الإسم التجاري الحاي والمقدم لاعمال فحص التربة - ذ م م - فرع ابوظبي
Establishment Date	:	27/11/2004	:	تاريخ تأسيس المنشأة
Issue Date	:	16/05/2023	:	تاريخ الإصدار
Expiry Date	:	18/05/2024	:	تاريخ الإنتهاء

الصلة Role	الجنسية Nationality	الملاك / الشركاء Owners / Partners	الرمز No.
شريك Partner	الإمارات العربية المتحدة United Arab Emirates	جمال محمد مطر مصبح الحاي JAMAL MOHAMMED MATAR MUSABAH ALHAI	20095078
شريك Partner	لبنان Lebanon	محمد احمد المقدم MOHAMAD AHMAD MUKADDAM	20095080

Economic Activities	:	الأنشطة الاقتصادية
- Mechanical and Physical Tests Lab		- مختبر الفحوص الميكانيكية والفيزيائية
- Soil Testing Services		- خدمات فحص التربة
- Geological and geophysical consultancy and studies and researches		- الاستشارات والدراسات والبحوث الجيولوجية والجيوفيزيائية
- Chemical and Biological Analysis Lab		- مختبر تحاليل كيميائية وبيولوجية

Address	:	مصفح, م 26 ق 88-89, المستودع رقم 5,	:	العنوان
Onwani Address	:		:	العنوان الموحد

Official Email	:	accounts@ahamgeo.com	:	البريد الإلكتروني الرسمي
Official Mobile	:	+971522525675	:	رقم التواصل الرسمي



هيئة أبوظبي للدفاع المدني  
ABU DHABI CIVIL DEFENCE  
AUTHORITY



تحقق  
TAHAQAQ

www.added.gov.ae

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Approved document issued without signature or stamp by the Department of Economic Development - Abu Dhabi. To verify the license kindly visit [www.tamm.abudhabi](http://www.tamm.abudhabi)



## Certificate of Registration | شهادة تسجيل

Certification Number	R-L-17-00067	رقم الشهادة
Name of CAB	Al Hai & Al Mukaddam for Geotechnical Works (LLC)	اسم جهة تقييم المطابقة
Address	Abu Dhabi - MUSSAFAH-M26 - Musaffah-M26 workshop #5,plot no.88 & 89	العنوان
Issue Date	26/07/2017	تاريخ الإصدار
Expiry Date	25/07/2024	تاريخ الانتهاء
Scope	الأنشطة	
Testing Laboratory	مختبرات الفحص	

This certificate was issued based on the request of the conformity assessment body without any responsibility to be bared by Ministry of Industry and Advanced Technology toward others.

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification



أصدرت هذه الشهادة بناء على طلب جهة تقييم المطابقة دون تحمل وزارة الصناعة والتكنولوجيا المتقدمة اي مسؤولية تجاه الغير.

هذه الشهادة صدرت إلكترونياً ولا تحتاج لختم أو توقيع، أي كشط أو تغيير في هذه الشهادة يلغيتها.



UNITED ARAB EMIRATES  
MINISTRY OF INDUSTRY  
& ADVANCED TECHNOLOGY



## Certificate of Accreditation

الحاي و المقدم لأعمال فحص التربة ذ.م.م (NAL 101)

مصنع - أبوظبي، الإمارات العربية المتحدة

حاصل على الإعتماد في الفحوصات المذكورة في وثيقة المجال المرفقة وفقاً للمواصفة الدولية، ISO/IEC 17025،

Al Hai & Al Mukaddam for Geotechnical Works L.L.C (NAL 101)

Mussafah – Abu Dhabi, UAE

Accredited according to the ISO/IEC 17025, Standard to undertake tests as specified in the attached Accreditation Scope



فرح الزرعوني  
عن مدير إدارة الاعتماد الوطني

Accredited on 2021/11/03 تاريخ منح الإعتماد  
Expires on 2024/11/02 تاريخ الإنتهاء

1 Accreditation in accordance to the ISO/IEC 17025:2017 Standard "General requirements for the competence of testing and calibration laboratories" and the relevant ENAS and ILAC requirements.

This certificate is invalid without the attached scope of accreditation, which subjected to annual surveillances as per ENAS procedure. Certificate can be updated or re-issued until the expiry date defined above. The validity of the certificate is subjected to continuous compliance with the requirements of the accreditation system. The lab is responsible for the results of its testing.

Initial Accreditation Date: 09/07/2015

1 وفقاً للمتطلبات المواصفة الدولية ISO/IEC 17025:2017 "المتطلبات العامة لكفاءة مختبرات الفحص والمعايرة" والمتطلبات ذات العلاقة الخاصة بنظام الإعتماد الوطني الإماراتي ENAS والمنظمة الدولية لاعتماد المختبرات ILAC.

مجال الاعتماد جزء أساسي من هذه الشهادة حيث تخضع مجالات الاعتماد المذكورة في الوثيقة المرفقة لعمليات متابعة لاحقة من قبل نظام الإعتماد الوطني الإماراتي ENAS، وتعتبر هذه الشهادة صالحة وقابلة للتحديث وإعادة الاصدار حتى تاريخ انتهاء المدول اعلاء شريطة استمرار المختبر المذكور اعلاء في تطبيق متطلبات نظام الاعتماد سابقة الذكر. يتحمل المختبر مسؤولية نتائج الفحص المسندة عنه.

تاريخ منح الإعتماد لأول مرة: 09/07/2015

ACF 11-21; Rev.4

Abu Dhabi, Dubai, United Arab Emirates | الإمارات العربية المتحدة | أبوظبي، دبي، P.O.BOX 48666 | ص.ب. 48666 | هاتف 600565554 | TEL  
www.moia.gov.ae



# Accreditation Scope

**Al Hai & Al Mukkadam for Geotechnical Works L.L.C, NAL 101  
Testing Laboratory, (ISO/IEC 17025:2017)**

**Al Mussafah, Abu Dhabi, UAE**

**Issue Date: 12-04-2022**

**Expiry Date: 02-11-2024**

**Issue No: 06**

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client- site (S)
Geotechnical	Soil In - Situ Testing	Methods of test for soils for civil engineering purposes Part 9: In-situ tests Determination of the penetration resistance using the split-barrel sampler (Standard penetration test - SPT)	BS EN ISO 22476-3:2005+A1:2011  * BS 1377 Part 9:1990- AMD 8264-1995 Cl. 3.3	S
	Soil Sampling & Description	Code of practice for Ground Investigations Obtaining disturbed samples from boring tools & excavating equipment	BS 5930:2015; Section 4 Cl. 25.3	S
		Soil Sampling Open-tube sampling techniques	BS 5930:2015; Section 4 Cl. 25.4	S
		Description of Soils	BS 5930:2015; Section 6 Cl. 33	P / S
	Rock Sampling & Description	Code of practice for Ground Investigations Rock Sampling Rotary core samples	BS 5930:2015; Section 4 Cl. 25.7	S
		Description and Classification of Rocks Rock Core Recovery	BS 5930:2015; Section 6 Cl. 36 Clarks & Walker	P / S
	Ground Water Management	Code of practice for ground investigations Ground water monitoring Ground Water sampling	BS 5930:2015; Section 4 Cl. 26	S
		Groundwater measurements	BS 5930:2015 Section 8 Cl. 52, Section 4 Cl. 26.2 & 26.3 (Cl. 52.5 standpipe piezometer)	S



# Accreditation Scope

**Al Hai & Al Mukkadam for Geotechnical Works L.L.C, NAL 101  
Testing Laboratory, (ISO/IEC 17025:2017)**

**Al Mussafah, Abu Dhabi, UAE**

**Issue Date: 12-04-2022**

**Expiry Date: 02-11-2024**

**Issue No: 06**

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client- site (S)
Geotechnical	Soil	Particle size distribution Wet & Dry sieving	BS EN ISO 17892-4:2016, Cl. 5.2	P
		Determination of Water (Moisture)	BS EN ISO 17892-1:2014	
		Sedimentation by the hydrometer method	BS EN ISO 17892-4:2016, Cl. 5.3	
		Liquid limit, plastic limit and plasticity index of soil	BS EN ISO 17892-12:2018, Cl. 5.3, 5.5, 6.5	
	Rock	Preparation of rock core (Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19	P
		Unconfined Compressive Strength of Rock Core Specimen	ASTM D7012-2014e1, Method C	
Determination of Water (Moisture) Content of Soil and Rock by Mass		ASTM D2216-2019		
Chemical	Soil	Acid Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl. 7.9 /7.6	P
		Water Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl. 7.3 /7.6	
		Acid Soluble Chloride Content of Soil	BS 1377-3:2018, Cl. 9.3	
		Water Soluble Chloride Content of Soil	BS 1377-3:2018, Cl. 9.2	
		pH of Soil, (0 to14) pH Units	BS 1377-3:2018, Cl. 12	
	Ground Water	pH of Ground Water, (0 to14) pH Units	BS 1377-3:2018, Cl. 12	P
		Sulphate Content of Ground Water	BS 1377-3:2018, Cl. 7.8, 7.3.4.4 & 7.6	
Chloride Content of Ground Water		BS 1377-3:2018, Cl. 9.2		



# Accreditation Scope

**Al Hai & Al Mukkadam for Geotechnical Works L.L.C, NAL 101  
Testing Laboratory, (ISO/IEC 17025:2017)**

**Al Mussafah, Abu Dhabi, UAE**

**Issue Date: 12-04-2022**

**Expiry Date: 02-11-2024**

**Issue No: 06**

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client- site (S)
Reporting	Ground Investigation	Code of practice for ground investigations Reporting	BS 5930:2015; Section 10 Cl. 63	P
Physical	Soil	In Situ Density (Sand Replacement Method Suitable for Fine, Medium and Coarse-Grained Soils, Large And Small Pouring Cylinder),	BS 1377-9:1990; AMD 13925-2002, Cl. 2.2 AMD 8264-1995	S/P
		Determination of dry density/ moisture content relationship using 4.5Kg rammer for coarse and medium gravel size particles)	BS 1377-4:1990; AMD 13925-2002, Cl. 3.5 & 3.6	P
	Concrete	Testing hardened concrete. Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1: 2021	P
		Testing hardened concrete. Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Compressive Strength of Concrete Cube	BS EN 12390-3: 2019	
		Testing hardened concrete. Density of hardened concrete	BS EN 12390-7:2019	
		Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	*BS 1881-111:1983; AMD. 9387:1997	
		Testing concrete Part 114: Methods for determination of density of hardened concrete	*BS 1881-114:1983; AMD 6721:1991	
Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	*BS 1881-116:1983; AMD. 6720 :1991			
<b>END</b>				

\* Standards are superseded / withdrawn



## رخصة تجارية Commercial License

### تفاصيل الرخصة / License Details

License No.	120127	رقم الرخصة
Company Name	AL HAI & AL MUKADDAM FOR GEOTECHNICAL WORKS )L.L.C.( الإسم التجاري الحاي والمقدم لعمال فحص التربة (ش. ذ. م.)	اسم الشركه التجاري والمقدم لعمال فحص التربة (شركه ذات مسؤليه محدوده)
Trade Name	AL HAI & AL MUKADDAM FOR GEOTECHNICAL WORKS )L.L.C.(	
Legal Type	Limited Liability Company)LLC(	الشكل القانوني ذات مسؤليه محدوده
Expiry Date	18/08/2024 تاريخ الإنتهاء	Issue Date 19/08/1989 تاريخ الإصدار
D&B D-U-N-S ®	534465398 الرقم العالمي	Main License No. 120127 رقم الرخصة الام
Register No.	53410 رقم السجل التجاري	DCCI No. 56245 عضوية الغرفة

### الاطراف / License Members

Share / الحصص	Role / الصفة	Nationality / الجنسية	Name / الإسم	No./ رقم الشخص
	Manager / مدير	Lebanon / لبنان	محمد احمد المقدم	20227
			MOHAMAD AHMAD MUKADDAM	

### نشاط الرخصة التجارية / License Activities

Soil Analysis Services	ت فحص التربة
Chemical & Biological Laboratory	اليل كيميائية وبيولوجية
Physical & Mechanical Testing Laboratory	الميكانيكية والفيزيائية
Geophysical & Geological Studies & Services	خدمات الجيوفيزيائية والجيولوجية
Scientific & Laboratory Equipment Trading	المعدات والجهزة العلمية والمعملية

### العنوان / Address

Phone No	971-4-8854854	تليفون	P.O. Box	60462	صندوق بريد
Fax No	971-4-8854772	فاكس	Parcel ID	598-1102	رقم القطعة
Mobile No	971-50-7758294	هاتف متحرك	البريد الإلكتروني / Email	INFO@AHAMGEO.COM	

لك الحاي والمقدم لعمال فحص التربة - مجمع دبي للاستثمار الولي

### الملاحظات / Remarks

Print Date 12/09/2023 14:18 تاريخ الطباعة

Receipt No. 15192970

رقم الإيصال



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# ACCREDITATION CERTIFICATE

**LB-TEST-005**

**Emirates International Accreditation Centre**

has accredited

**AL HAI & AL MUKADDAM FOR GEOTECHNICAL WORKS**

Dubai Investment Park, Dubai- United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2017**

General requirements for the competence of testing and calibration laboratories  
to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force  
within the validity period printed below, subject to continuing compliance with the requirements of  
the accreditation criteria.

Validity: 28/09/2023 to 15/10/2026

Initial Accreditation Date: 16/10/2005



  
Amina Ahmed Mohammed  
CHIEF EXECUTIVE OFFICER  
APPROVAL



## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Concrete	Testing concrete Methods for analysis of hardened concrete Determination of Chloride content in hardened concrete	BS 1881 Part 124 Clause 10.2
Chemistry	Concrete	Testing concrete Methods for analysis of hardened concrete Determination of Sulphate content in hardened concrete	BS 1881 Part 124 Clause 10.3

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the sulphate content of soil and ground water- Preparation of soil and its water extract	BS 1377 Part 3 Clause 5.3

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the sulphate content of soil and ground water: - Preparation of soil and its acid extract - Gravimetric method for analysis of acid or water extract or ground water	BS 1377 Part 3 Clause 5.2 & 5.5
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the PH Value	BS 1377 Part 3 Clause 9

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the chloride content- Determination of water-soluble chloride content	BS 1377 Part 3 Clause 7.2
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the chloride content - Determination of acid-soluble chloride content	BS 1377 Part 3 Clause 7.3

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the PH Value	BS 1377 Part 3 Clause 9
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes. Part 2: Classification tests Determination of particle size distribution: Wet and Dry sieving method	BS 1377 Part 2 Clauses 9.2 & 9.3

**Accreditation Scope**

**Construction Materials Testing**

**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	BS 1377-2 — Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Determination of California Bearing Ratio (CBR)	BS 1377-2 Clause 15

**Accreditation Scope**

**Construction Materials Testing**

**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	BS 1377-2 — Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Determination of dry density/water content relationship	BS 1377-2 Clause 11.5 & 11.6

**Accreditation Scope**

**Construction Materials Testing**

**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Determination of California Bearing Ratio (CBR)	BS 1377 Part 9 Clause 2.2

**Accreditation Scope**

**Construction Materials Testing**

**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for Soils for civil engineering purposes Part 2- Classification Tests clause 9: Determination of particle size distribution 9.5: Sedimentation by the hydrometer method	BS 1377 Part 2 Clause 9.5 Amd 9027(96)

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil	Methods of test for Soils for civil engineering purposes Part 2- Classification Tests Clause 4: Determination of the liquid limit: • 4.3: Cone penetrometer method (definitive method) • 4.4: One-point cone penetrometer method Clause 5: Determination of the plastic limit and	BS 1377 Part 2 Clause 4.3; Clause 4.4; Clause 5.3 & Clause 5.4 Amd 9027(96)
Mechanical / Physical	Hardened Concrete	Testing hardened concrete. Part 1: Shape, dimensions and other requirements for specimens and moulds	BS EN 12390 Part 1

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Hardened Concrete	Testing hardened concrete. Part 2: Making and curing specimens for strength tests	BS EN 12390 Part 2
Mechanical / Physical	Hardened Concrete	Testing hardened concrete. Part 3: Compressive strength of test specimens	BS EN 12390 Part 3
Mechanical / Physical	Hardened Concrete	Testing hardened concrete. Part 7: Density of hardened concrete	BS EN 12390 Part 7

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Hardened Concrete	Testing hardened concrete. Part 8: Depth of penetration of water under pressure	BS EN ISO 12390 Part 8
Mechanical / Physical	Hardened Concrete	Testing concrete. Method for determination of compressive strength of concrete cubes	BS 1881 Part 116
Mechanical / Physical	Hardened Concrete	Determination of water absorption on hardened concrete	BS 1881 Part 122 +A1
Mechanical / Physical	Hardened Concrete	Determination of Water Permeability	DIN 1048 Part 5

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/Physical	Hardened Concrete	Testing concrete. Methods for determination of density of hardened	BS 1881 Part 114, AMD 6098, AMD 6721
Mechanical/Physical	Hardened Concrete	Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	BS 1881 Part 111, AMD 6102, AMD 9387
Mechanical / Physical	Steel	Steel for the reinforcement of concrete - Weldable reinforcing steel - Bar, coil and decoiled product- Specification Steel bend tests	BS 4449 Appendix C, Clause C.1.6.1 BS EN 15630 Part 1

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Steel	Steel for the reinforcement of concrete - Weldable reinforcing steel - Bar, coil and decoiled product- Specification Steel tensile strength test	BS 4449 + A3 BS EN 15630 Part 1 ISO 6892 Part 1
Mechanical / Physical	Steel	Steel for the reinforcement of concrete - Weldable reinforcing steel - Bar, coil and decoiled product- Specification Steel re bend tests	BS 4449 +A3 BS EN 15630 Part 1

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Blocks	Precast concrete masonry units Part 1: Specification for precast concrete masonry units Measurement of dimension	BS 6073 Part 1 Appendix A
Mechanical / Physical	Blocks	Precast concrete masonry units Part 2: Method for specifying precast concrete masonry units Routine rapid control test of compressive strength of blocks by manufacturer (fibre board test)	BS 6073 Part 2 Appendix B

**Accreditation Scope**

**Construction Materials Testing**

**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Blocks	Precast concrete paving blocks Part 1: Specification for paving blocks Determination of compressive strength	BS 6717 Part 1 Annex A-B

## Accreditation Scope

### Construction Materials Testing

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 14

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Blocks	Precast concrete paving blocks Part 1: Specification for paving blocks Measurement of dimensions and plan area	BS 6717 Part 1 Annex A-B

Accreditation History		
Issue no.	Details	Date
14	Renewal accreditation and addition of scope as part of cube test	28-09-2023
13	Renewal accreditation and comply with the new accreditation number format	01-03-2021
12	Comply with ISO/ IEC 17025:2017	28-04-2020
11	Updating the test method and first issuance under the name of EIAC (which was formerly known as DAC)	18-04-2019

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Ground Water	Code of practice for Site Investigation Ground water level measurement	BS 5930 Section 4 Clause 4.26 & Section 8 Clause 52
Physical/ Mechanical	Ground Water	Code of practice for Site Investigation Ground water sampling	BS 5930 Section 4 Clause 26.4
Physical/ Mechanical	Soil	Methods of test for soils for civil engineering purposes. Part 9: In-situ tests In-situ penetration tests- Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)	BS 1377 Part 9 Section 3.3

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Soil	Code of practice for Site Investigation Soil sampling	BS 5930 Section 4 Clause 25.6
Physical/ Mechanical	Soil	Code of practice for Site Investigation Soil description	BS 5930 Section 6
Physical/ Mechanical	Rock	Code of practice for Site Investigation Rock quality designation	BS 5930 Section 6
Physical/ Mechanical	Rock	Code of practice for Site Investigation Core recovery	BS 5930 Section 6
Physical/ Mechanical	Rock	Code of Practice for Site Investigations Geotechnical Reporting	BS 5930 Section 10

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Rock	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012
Physical/ Mechanical	Rock	Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of pH value of Ground Water	BS 1377 Part3 Clause 9
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the chloride content- Determination of acid-soluble chloride content	BS 1377 Part 3 Clause 7.3

## Accreditation Scope

### Geotechnical Investigation

#### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

### Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	<p>Methods of test for soils for civil engineering purposes.</p> <p>Part 3: Chemical and electro-chemical tests</p> <p>Determination of the sulphate content of soil and ground water:</p> <ul style="list-style-type: none"> <li>- Preparation of soil and its acid extract</li> <li>- Gravimetric method for analysis of acid or water extract or ground water</li> </ul>	BS 1377 Part 3 Clause 5.2 & 5.5

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the chloride content- Determination of water-soluble chloride content	BS 1377 Part 3 Clause 7.2
Chemistry	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the sulphate content of soil and ground water- Preparation of soil and its water extract	BS 1377 Part 3 Clause 5.3

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Ground Water	<p>Methods of test for soils for civil engineering purposes.</p> <p>Part 3: Chemical and electro-chemical tests</p> <p>Determination of the chloride content-</p> <p>Determination of water-soluble chloride content</p>	BS 1377 Part 3 Clause 7.2

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Ground Water	<p>Methods of test for soils for civil engineering purposes.</p> <p>Part 3: Chemical and electro-chemical tests</p> <p>Determination of the sulphate content of soil and ground water-</p> <p>Preparation of ground water for testing</p>	BS 1377 Part 3 Clause 5.4

**Accreditation Scope**  
**Geotechnical Investigation**  
**LB-TEST-005**

**Al Hai & Al Mukaddam for Geotechnical Works**

**Dubai Investment Park, Dubai- United Arab Emirates**

Issue no.: 12

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Ground Water	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests Determination of the PH Value	BS 1377 Part 3 Clause 9

Accreditation History		
Issue no.	Details	Date
12	Renewal accreditation	28-09-2023
11	Renewal accreditation and comply with the new accreditation number format	01-03-2021
10	Comply with ISO/ IEC 17025:2017	28-04-2020
09	Updating the test method and first issuance under the name of EIAC (which was formerly known as DAC)	18-04-2019

## Accreditation Scope

### Pile Testing

### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

## Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 04

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Pile	Standard Test Method for High-Strain Dynamic Testing of Deep Foundations	ASTM D4945 and Mukaddam Internal Method Statement MIMS 03
Mechanical / Physical	Pile	Standard Guide for Conducting Borehole Geophysical Logging: Mechanical Caliper	ASTM D6167
Mechanical / Physical	Pile	Standard Test method for Integrity Testing of Concrete Deep Foundation by Ultrasonic Cross hole Testing	ASTM D6760

## Accreditation Scope

### Pile Testing

### LB-TEST-005

## Al Hai & Al Mukaddam for Geotechnical Works

## Dubai Investment Park, Dubai- United Arab Emirates

Issue no.: 04

Date: 28-09-2023

Valid to: 15-10-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Pile	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations	ASTM D5882 and Mukaddam Internal Method Statement MIMS 05

Accreditation History		
Issue no.	Details	Date
4	Renewal Accreditation	28-09-2023
3	Renewal accreditation and comply with the new accreditation number format	01-03-2021
2	Comply with ISO/ IEC 17025:2017	28-04-2020
1	Segregate it from Construction Materials Testing scope as a separate scope named Pile Tersting and first issuance under the name of EIAC (which was formerly known as DAC)	18-04-2019



رخصة مهنية

**Professional License**



**License Details** تفاصيل الرخصة

Issue Date	1976/07/17	تاريخ الإصدار	License No.	295	رقم الرخصة
Expiry Date	2024/07/30	تاريخ الإنتهاء	Registration No.	65740	رقم السجل
Trade Name	I & M ENG. EST.			مؤسسة اى اندام الهندسية	الاسم التجاري
Legal status	Services Agency			وكيل خدمات	الشكل القانوني

**License Members** أطراف الرخصة

الحصص	الصفة	رقم الهوية / الجواز	الجنسية	إسم المستثمر	رقم المستثمر
Shares	Type	ID/Passport No.	Nationality	Investor Name	Investor No.
%100	المالك	784194293584366	لبنان	محمد احمد المقدم	73311
%0	وكيل خدمات	784195254386170	الإمارات	محمد حميد عبدالله دلموك النعيمي	26871

استشارات هندسية فئة أولى إختصاص ميكانيكي تربة ومواد بناء

الشارقة-صناعية رقم 17/الشارقة-- خلف شارع المليحة -شيرة رقم 9 ملك ابراهيم جاسم ابراهيم البغام النعيمي

أنشطة الرخصة

العنوان

رقم الهاتف المتحرك: 0504591377  
صندوق البريد: 5116 الشارقة  
البريد الالكتروني: info@ahamgeo.com



2023/08/10

تاريخ الطباعة

39795

رقم المستخدم

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شهادة تسجيل العضوية لعام  
Membership Registration Certificate For Year

2023

إن غرفة تجارة وصناعة الشارقة بناءً على قانونها رقم (٩) لعام ٢٠١٨م  
Sharjah Chamber of Commerce and Industry according to the law no. (9) 2018

مؤسسة اى اندام الهندسية

I & M ENG. EST.

قد سجلت

:Company Name

295

رقم الترخيص :

:License NO

002592

رقم العضوية :

:Membership

Number

65740

رقم السجل التجاري :

: Commercial

Registration NO

الامارات

الجنسية :

:Nationality

الممتازة

الفئة :

: Category

مؤسسة فردية / وكيل

خدمات

الشكل القانوني :

: Legal Form

جنسية الشركاء :

: Partners Nationality

لبنان, الامارات,

الشارقة-صناعية رقم 17/الشارقة-- خلف شارع الخان-شيرة رقم 9م ملك عبدالمجيد احمد اميري

SHARJAH INDUSTRIAL AREA\_17 Al Khan Street

العنوان :

: Address

, استشارات هندسية فئة أولى إختصاص , ميكانيكي تربة ومواد بناء

, ميكانيكي تربة ومواد بناء , First Category Engineering Consultancy

لممارسة نشاط :

: Activity

ملاحظات :

: Remarks

SEDD

SEDD

تاريخ الإنتهاء

30/7/2024

تاريخ الإصدار

2/8/1992



M 254183



التاريخ : <2023/09/20 م  
المرجع : 108/1241/2023

## شهادة تجديد Renewal Certificate

Certificate Number:	22/2023	رقم الشهادة:
Issue date:	18/9/2023	تاريخ الإصدار:
Expiry date:	17/9/2024	تاريخ الانتهاء:

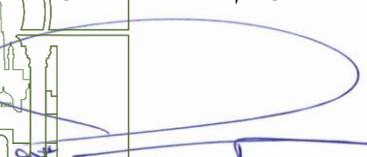
Sharjah City Municipality Certifies That	تشهد بلدية مدينة الشارقة بأن
I&M ENG. EST.	مؤسسة اي اند ام الهندسية

License No:	295	رقم الرخصة:
Tel:	06-5350357	هاتف:
P.O. Box:	5116	صندوق البريد:

Is registered under the Sharjah Laboratories Registration Program.	مُسجّل ضمن برنامج الشارقة لتسجيل المختبرات.
--	---

Scope:	المجال:
<ul style="list-style-type: none"><li>Construction Material Testing</li><li>Soil Testing</li></ul>	<ul style="list-style-type: none"><li>فحص مواد البناء</li><li>فحص التربة</li></ul>

ع / عبيد سعيد الطنجي  
مدير عام بلدية مدينة الشارقة



بلدية الشارقة  
SHARJAH MUNICIPALITY

SCM-DGS-PHL-F-05-01



## Certificate of Registration | شهادة تسجيل

Certification Number	RT 0078	رقم الشهادة
Name of CAB	I & M ENG. EST.	اسم جهة تقييم المطابقة
Address	Sharjah - Industrial Area - Industrial Area -17, Sharjah UAE P.O. Box 5116	العنوان
Issue Date	07/06/2021	تاريخ الإصدار
Expiry Date	12/03/2025	تاريخ الانتهاء
Scope	الأنشطة	
Testing Laboratory	مختبرات الفحص	

This certificate was issued based on the request of the conformity assessment body without any responsibility to be bared by Ministry of Industry and Advanced Technology toward others.

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification



أصدرت هذه الشهادة بناء على طلب جهة تقييم المطابقة دون تحمل وزارة الصناعة والتكنولوجيا المتقدمة اي مسؤولية تجاه الغير.

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UNITED ARAB EMIRATES  
MINISTRY OF INDUSTRY  
& ADVANCED TECHNOLOGY



# شهادة الاعتماد Accreditation Certificate

Conformity Assessment Body's ID: NAL 204

الرمز التعريفي لجهة تقييم المطابقة: NAL 204

I & M ENG. EST.

Industrial Area – 17 Sharjah, UAE P.O. Box. 5116 , Sharjah, United Arab Emirates

مؤسسة أي أند إم الهندسية  
المنطقة الصناعية 17- الشارقة صندوق بريد رقم 5116 ، الشارقة، الإمارات العربية المتحدة

Accredited according to the International Standard ISO/IEC 17025<sub>1</sub> to undertake tests as specified in the attached Accreditation Scope.

حاصل على الإعتدال لطرق الفحص الواردة في وثيقة المجال المرفقة وفقاً للمواصفة الدولية ISO/IEC 17025<sub>1</sub>

Accredited on: 29/01/2024

تاريخ منح الاعتماد: 29/01/2024

Expires on: 28/01/2027

تاريخ الانتهاء: 2027/01/28

1 Accreditation in accordance with the International Standard ISO/IEC 17025:2017 "General requirements for the competence of testing and calibration laboratories" and the relevant ENAS and ILAC requirements.

1 وفقاً لمتطلبات المواصفة الدولية ISO/IEC 17025:2017 "المتطلبات العامة لكفاءة مختبرات الفحص والمعايرة" والمتطلبات ذات العلاقة الخاصة بنظام الإعتدال الوطني الإماراتي ENAS والمنظمة الدولية لاعتماد المختبرات ILAC.

This certificate is invalid without the attached scope of accreditation, which subjected to annual surveillances as per ENAS procedure. Certificate can be updated or re-issued until the expiry date defined above. The validity of the certificate is subjected to continuous compliance with the requirements of the accreditation system. The lab is responsible for the results of its testing.



مجال الاعتماد جزء أساسي من هذه الشهادة حيث تخضع مجالات الاعتماد المذكورة في الوثيقة المرفقة لعمليات متابعة لاحقة من قبل نظام الإعتدال الوطني الإماراتي ENAS، وتعتبر هذه الشهادة صالحة وقابلة للتحديث وإعادة الاصدار حتى تاريخ الانتهاء المدون اعلاه شريطة استمرار المختبر المذكور اعلاه في تطبيق متطلبات نظام الاعتماد سالف الذكر. يتحمل المختبر مسؤولية نتائج الفحص الصادرة عنه.

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification.

هذه الشهادة صدرت إلكترونياً ولا تحتاج لختم أو توقيع، أي كشط أو تغيير في هذه الشهادة يلغيها.

Initial Accreditation Date: 29/01/2024

تاريخ منح الإعتدال لأول مرة: 2024/01/29

Abu Dhabi, Dubai, United Arab Emirates | أبو ظبي، دبي، الإمارات العربية المتحدة P.O.BOX 48666 ص.ب. TEL 600565554 هاتف

600565554

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# Accreditation Scope

I & M ENG. EST., NAL 204  
Testing Laboratory, (ISO/IEC 17025:2017)

Industrial Area – 17 Sharjah, UAE P.O. Box. 5116 , Sharjah, United Arab Emirates

Issue Date: 29/01/2024

Expiry Date: 28/01/2027

Issue No: 1

Testing Field	Materials/ Products Tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Physical	SOIL	Determination of in-situ density by sand replacement method	BS 1377-9:1990, Cl. 2.2, AMD. 8264/95	P/S
Physical	SOIL	Determination of Water Content of Soil	BS 1377 Part 2:1990 AMD 9027-1996 Clause 3.2,	P
Physical	SOIL	Determination of dry density/water content relationship Compaction method using 4.5kg rammer with 1L mold	BS 1377-2:2022 Clause 11.5	P
Physical	Soil	Determination of dry density/water content relationship Compaction method using 4.5kg rammer with CBR mold	BS 1377-2:2022 Clause 11.6	P
Physical	Soil	Determination of Water (Moisture) Content of soil sample	BS EN ISO 17892-1:2014+ A1:2022.	P

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification.



هذه الشهادة صدرت إلكترونياً ولا تحتاج لختم أو توقيع، أي كشط أو تغيير في هذه الشهادة يلغيها.



# Accreditation Scope

I & M ENG. EST., NAL 204  
Testing Laboratory, (ISO/IEC 17025:2017)

Industrial Area – 17 Sharjah, UAE P.O. Box. 5116 , Sharjah, United Arab Emirates

Issue Date: 29/01/2024

Expiry Date: 28/01/2027

Issue No: 1

Physical	Concrete	Testing hardened concrete- Compressive Strength of test specimens	BS EN 12390- 3:2019	P
Physical	Concrete	Shape, dimensions and other requirements for specimens and molds	BS EN 12390- 1:2021	P
Physical	Concrete	Material Testing hardened concrete making and curing specimens for strength tests.	BS EN 12390- 2:2019	P
Physical	Concrete	Density of hardened concrete	BS EN 12390- 7:2019	P
<b>END</b>				

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification.



هذه الشهادة صدرت إلكترونياً ولا تحتاج لختم أو توقيع، أي كشط أو تغيير في هذه الشهادة يلغيها.



تاريخ الإصدار/ Issue Date: 2013-03-26

<b>Registration Certificate</b>	<b>شهادة تسجيل</b>
<b>مورد/مقاول/استشاري</b>	
<b>Registration Number: 34043</b>	رقم التسجيل: 34043
<b>File Number: A- 123</b>	رقم الملف: A- 123
<b>Trade Name: AL HAI &amp; AL MUKADDAM GEOTECHNICAL WORKS LLC</b>	الاسم التجاري: الحاي والمقدم لخدمات فحص التربة - ذ.م.م - فرع أبوظبي
وقد أعطيت هذه الشهادة بناء على رغبة الشركة دون أدنى مسئولية أو التزام على الدائرة تجاه الغير	
 <b>إدارة المناقصات والعقود</b>	
<small>* يجب على الموردين العمل بمسئولية عالية في حال تم التعاقد أو العمل في أي مشروع أو معلومات خاصة بالشركة * يجب على الموردين العمل بمسئولية عالية في حال تم التعاقد أو العمل في أي مشروع أو معلومات خاصة بالشركة</small>	

SCM/TC/CF/43  
1.0 08th July 2012

رقم الهاتف: +971 3 7128000 - فاكس: +971 3 7128001 - ص.ب: 1003 - العين. الإمارات العربية المتحدة  
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