



MUSCAT LAB
لفحص التربة والمواد الإنشائية
Soil and Construction Materials Testing

ADIL GROUP

muscatlab



**COMPANY
PROFILE**



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ABOUT US

Muscat Laboratory for Geotechnical Materials Testing is an Omani Laboratory with International standards and vision, lead and owned by Omani Engineers. Headquartered in Al Khoudh Area, located at Muscat, the capital of Sultanate of Oman, offers high quality services in the field of Geotechnical Engineering, Soil Investigation and Construction Material Testing. Established in 2009, Muscat Lab is today a recognized firm providing Engineering and Scientific services for construction and associated industries. We are an ISO certified laboratory fully committed in complying with our Quality Management System as per DIN EN ISO 9001:2008 and with the (ISO/IEC 17025 Laboratory Accreditation.)

Muscat Laboratory has a unique blend of construction materials testing and geotechnical investigation infrastructure. The Laboratory is equipped with all the required hardware and instruments for Geotechnical Services, Soil, Rocks, Concrete, Aggregate, Asphalt and other special materials testing, in addition to Non-Destructive Testing (NDT).



OUR VISION

- Produce sustainable Geotechnical and Materials solutions that meet a wide range of needs.
- Expand and consolidate our GCC countries presence.
- We want to be in the heart of Social & Economic Development.

CORPORATE MISSION

We wish to excel as a service provider in the area of Geotechnical Investigation and Laboratory Services. We strive to offer the highest level of quality services and satisfy the requirements of construction, geotechnical, industrial and other related fields.

Our staff combines understanding of materials and structural behavior gained from experimentation in the laboratory and extensive field testing. Combined with our with strong analytical capability we constantly increase our know how.

ORGANIZATIOANL STRUCTURE





SCOPE OF SERVICES

Muscat Laboratory provides soil testing services for all types of earthwork applications. Our laboratory performs a different standard soil tests according to the appropriate American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), British Standard (BS), International Organization for Standardization (ISO). Our capabilities range from basic index tests to sophisticated strength and compressibility tests. Our automated testing equipment and experienced staff allows us to provide rapid, high quality and professional test results.

SCOPE OF SERVICES

1 GEOTECHNICAL INVESTIGATIONS

- Soil Investigation for building, bridges, road and special structure.
- Collection of soil and water samples.
- Field and laboratory testing equipments designed for all types of geotechnical investigation purposes according to the latest technologies.



2 GENERAL GEOTECHNICAL ENGINEERING SERVICES

- Borehole drilling soil investigation.
- Sample coring and analysis.
- Trial pitting.
- Dynamic Cone Penetration Test (DCPT).
- Design and planning of ground investigation.
- Groundwater monitoring, sampling and analysis.
- Consultation on special geotechnical problems.
- Clarification reporting of field and laboratory test result.
- Engineering recommendations for the type of foundation and bearing capacity.



SCOPE OF SERVICES

3 LABORATORY AND FIELD TESTING

SOIL TESTING

- In-Situ Test
- Field Density Test
- Plate Bearing Test
- Standard Penetration Test
- Soil Sampling



PHYSICAL

- Natural Moisture Content
- California Bearing Ratio (CBR)
- Liquid Plastic Limit
- Specific Gravity
- Sieve Analysis
- Sand Equivalent
- Sedimentation Analysis (Hydrometer)
- Moisture/Density Relationship 2.5kg Rammer
- Moisture/Density Relationship 4.5kg Rammer



CHEMICAL

- Acid Soluble Chloride Content
- Acid Soluble Sulphate Content
- pH
- Determination of Water Soluble Chloride Content
- Determination of Water Soluble Sulphate Content
- Determination of Carbonate Content



WATER TESTING

- Ground Water Level Measurement
- Ground Water Sampling
- Chloride Content of Ground Water
- Sulphate Content of Ground Water
- pH of Ground Water



SCOPE OF SERVICES

ROCK TESTING

- Unconfined Compressive Strength
- Point Load Index
- Acid Soluble Chloride Content
- Acid Soluble Sulphate Content
- pH value
- Determination of Carbonate Content
- Determination of Water Soluble Chloride Content
- Determination of Water Soluble Sulphate Content



AGGREGATE TESTING

- Sieve Analysis
- Moisture Content
- Material passing 75µm sieve
- Flakiness Index
- Elongation Index
- Aggregate crushing value
- Ten percent fines value
- Soundness, MgSO₄/ Na₂SO₄
- Shell Content
- Light weight pieces
- Los Angeles Abrasion Value
- Aggregate Impact Value
- Clay lumps Friable Particles
- Sand Equivalent Value
- Compaction Fraction of Aggregate
- Organic Impurities
- Sulphate Content
- Chloride Content
- Bulk Density – compacted / uncompactd
- Relative Densities / Water absorption



ASPHALT TESTING

- Asphalt Extraction
- Specific Gravity
- Degree of Compaction
- Thickness of Asphalt Core
- Marshall Stability and Flow Test
- Sieve Analysis of Extracted Aggregate
- Theoretical Maximum Specific Gravity and Density (Gmm)



SCOPE OF SERVICES

CONCRETE TESTING

- Determination of Slump
- Determination of unit Weight
- Concrete Cube Making
- Schmidt Hammer Test
- Determination of Density Concrete
- Determination of water absorption
- Water Permeability
- Concrete cover survey
- Determination of Compressive Strength of Concrete Core
- Determination of Compressive Strength of Foam Concrete
- Determination of Chloride Content in Hardened Concrete
- Determination of Sulphate Content in Concrete
- Compressive Strength of Concrete Cubes and Cylinders
- Compressive Strength of Blocks and Tiles Absorption Values



4 MATERIAL TECHNOLOGY AND TESTING

The material technology and testing conducted by MUSCAT LABORATORY in routine testing of construction material and consultation.

Material Technology and Testing services:

- Material Technology
- Fresh concrete and hardened concrete (physical, chemical, mechanical and electro-chemical laboratory tests)
- Asphalt
- Precast concrete masonry unit
- Soil and rock
- Aggregate and stone
- Special engineering materials
- Chemical analysis of soils and water for foundation design recommendations
- Chemical analysis of construction materials for quality control purposes

5 QUALITY CONTROL

- Review quality policy and procedure.s
- Preparing the Laboratory's Quality Manual (Registration, Issuance and revision of all controlled copy).
- Maintain quality records.
- Monitor all aspects of quality services within the Laboratory.
- Updating Laboratory Method Statement in worksheet in accordance with relevant standard for utilization.
- Prepare Laboratory worksheets and quality forms in accordance with relevant standard for utilization.
- Ensure that all materials prior for testing, sampling and storage are carried out in accordance with relevant standard methods.

MAJOR PROJECTS

Muscat Laboratory for Geotechnical and Materials Testing started its operations in 2009, carried out numerous projects. Residential, Commercial, Industrial Building, Private Villas, Schools, Roads and Internal Services. Below can be found a list of some selected projects.

1 AL SEEB INT.L SCHOOL - AL KHOUDH



Client Name: Al Omaniya Education Services
Consultant: M.A Design Architectural Consultation
Year: 2012

Scope of Work:

Geotechnical investigation including land borehole drilling, quality assurance services for a period of four years in addition to a wide range of field and laboratory tests on Concrete, Soils, Aggregates, Asphalt and other materials used in the construction.

2 MUSCAT INT. AIR PORT CAR PARKING - AL SEEB



Client Name: Oman Airport Management Company
Consultant: National Engineering Office
Year: 2013

Scope of Work:

Quality assurance services for a period of project in addition to field and laboratory tests on Concrete, Soils, Aggregates, Asphalt and other materials used in Road construction

MAJOR PROJECTS

3 YAS MART HYPER MARKET - AL KHOUDH



Client Name: Private
Consultant: Engineering District Consultancy
Year: 2002

Scope of Work:
Geotechnical Investigation including land borehole drilling Quality Control Services in field and laboratory tests.

4 NESTO HYPER MARKET -AL MABELAH



Client Name: Private
Consultant: Design Unit
Year: 2014

Scope of Work:
Quality Control testing for field and laboratory tests on Concrete, Soils, Aggregates, and other construction materials.

5 MILITARY COMMERCIAL COMPLEX (LULU ALBANDR) AL- MAWALEH



Client Name: (Ministry of Defense) MOD
Consultant: Golden Triangle Engineering
Year: 2014

Scope of Work:
Quality Testing Services for a period of the project in addition to a wide range of field and laboratory tests on Concrete, Soils, Aggregates & Asphalt.

MAJOR PROJECTS

6 CONSTRUCTION OF MUNICIPALITY WASTE TRANSFER STATION (AL-KHABORA & AL-SUWAIQ)

Client Name: Oman Enviromental holding services (BE'AH)

Consultant: Oman Engineering consultancy Co.

Scope of Work:

Quality assurance services for a period of project in addition to field and laboratory tests on Soil, Concrete, Aggregates and Asphalt.

7 CONSTRUCTION OF MUNICIPALITY WASTE TRANSFER STATION (BIDEYA, DIMA WATAEEN & IBRA)

Client Name: Oman Enviromental holding services (BE'AH)

Consultant: Renardet S.A & Partners Consulting Engineers LLC.

Scope of Work:

Quality assurance services for a period of project in addition to field and laboratory tests on Soil, Concrete, Aggregates and Asphalt.

8 CONSTRUCTION OF PROPOSED SOLUTIONS TO RESOLVE WATER STAGNATION AT AL-MAWALEH SOUTH

Client Name: Muscat Municipality - Al Seeb

Consultant: Al Seeb Municipality

Scope of Work:

Quality testing for Road materials and asphalt.

9 GEOTECHNICAL/GEOPHYSICAL/GEOLOGICAL INVESTIGATION FOR (DABA - LIMA KHASAB ROAD PROJECT - PART 1 GEOTECHNICAL

Client Name: Ministry of Transport and Communications

Consultant: Renardet S.A & Partners Consulting Engineers LLC.

Scope of Work:

Geotechnical Invistigation Services for 45 Boreholes

LABORATORY AND DRILLING EQUIPMENTS

DRILLING



CHEMICALS



LABORATORY AND DRILLING EQUIPMENTS

ASPHALT



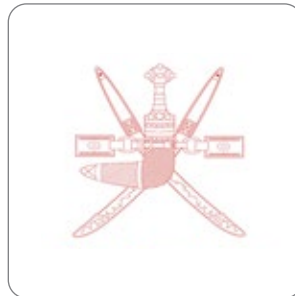
SOIL AND ROCK



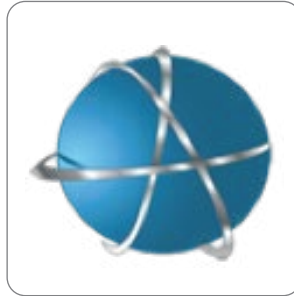
NTD



LIST OF MAJOR CLIENTS



CONSULTANTS AND CONTRACTORS



QUALITY MANAGEMENT SYSTEM POLICY

- We want to fully adhere to the National Laws and Regulations.
- We want to harmonize work culture and ensure sustainable development providing better quality of life to our employees and stakeholders.
- We want to ensure that the principle of sustainable development is implemented in all activities performed by Muscat Lab and thus ensure that the noble cause of providing better quality of life.
- We aim to complete the projects on time and within the realistic budget allocation maintaining the highest quality of work.
- We monitor the activities and implement timely corrective and preventive action in order to reduce injuries and prevent possible environmental impacts.
- Application of this policy is the task of all employees of the company.
- All our action is oriented to enhance the satisfaction level of our stakeholders.

COMPANY HSE POLICY

To achieve excellence in our business and work environment, MUSCAT LAB is fully committed to a policy of safe working condition protecting our people and the environment in which we work.

Our HSE Policy is defined and strongly driven by the following management principles and behaviors:

- Provide and ensure a safe working environment, conditions and equipment, coupled with training that will provide our employees with the knowledge and information necessary to safely carry out their assigned duties.
- Monitor our performance with reviews and audited to ensure that our controls are effective and objectives are being achieved.
- Establishing methods for identifying and assessing hazards and reducing risks to levels as low as are practicable. Complying with applicable legal requirement.

The policy will be periodically reviewed to ensure its continuing suitability to the needs of its customers and employees.

It will be posted in any prime location within the laboratory and on all sites; everyone shall be aware of its content and shall commit themselves to its fullest implementation.

List of Registration Documents:

	Agencies	Registration No.
1.	Chamber of Commerce	10558
2.	Registration Documents	1056165
3.	Registration Certificate	1056165
4.	Muscat Municipality	MM/5361/2009
5.	Ministry of Defense	14948
6.	Tender Board	00001678
7.	Royal Court Affairs	MTC/REG-63/2013-659
8.	Royal Oman Police	ROP/1 DGPM/047/3444/11
9.	Ministry of Oil & Gas (JSRS)	OM100325



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✉ muscatlab@gmail.com

☎ +968 245 49 355

🏠 +968 244 24 364

📍 P.O.Box 40 P.C. 132, Phase 7, Al
Khoudh, Muscat, Sultanate of Oman

muscatlab

