



MUSCAT LAB
لفحص التربة والمواد الإنشائية
Soil and Construction Materials Testing

ADIL GROUP



COMPANY PROFILE



muscatlaboratory



ABOUT US



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LABORATORY AND DRILLING EQUIPMENTS



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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.) **During the time of editing this profile Muscat Laboratory was in process of 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.

ORGANIZATIONAL 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).
- Engineering recommendations for the type of foundation and bearing capacity.
- Design and planning of ground investigation.
- Groundwater monitoring, sampling and analysis.
- Consultation on special geotechnical problems.
- Clarification reporting of field and laboratory test result.



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



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



- AGGREGATE TESTING

- Sieve Analysis
- Moisture Content
- Material passing 75µm sieve
- Relative Densities / Water absorption
- Flakiness Index
- Elongation Index
- Aggregate crushing value
- Ten percent fines value
- Soundness, $MgSO_4 / Na_2SO_4$
- Shell Content
- Light weight pieces
- Bulk Density – compacted / uncompactd
- Los Angeles Abrasion Value
- Aggregate Impact Value
- Clay lumps Friable Particles
- Sand Equivalent Value
- Compaction Fraction of Aggregate
- Organic Impurities
- Sulphate Content
- Chloride Content



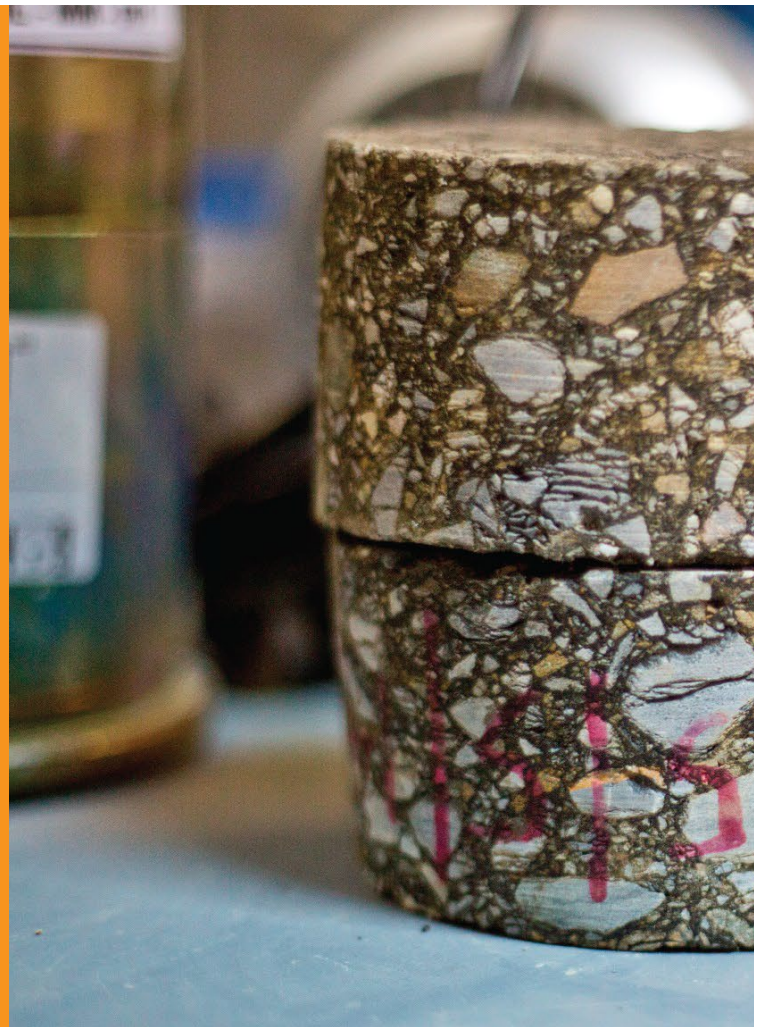
- ASPHALT TESTING

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



- 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



SCOPE OF SERVICES

4 MATERIAL TECHNOLOGY AND TEST

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

SCOPE OF SERVICES

5 QUALITY CONTROL

- Review quality policy and procedures
- 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 AZAN BIN QAIS INT. 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

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.

6 MOSQUE - AL- KHOUD



CLIENT NAME: Ministry of Awqaf
CONSULTANT: Adil Al Subhi Engineering Consultancy
YEAR: 2009

Scope of Work:

Geotechnical Investigation including land borehole drilling Quality Control Services in field and laboratory tests.

ON GOING PROJECTS

1 CONSTRUCTION OF 26 HOUSING UNIT4

CLIENT NAME: Ministry of Housing
CONSULTANT: Al-Madar Engineering
YEAR: 2015

Scope of Work:

Geotechnical investigation including land borehole drilling, quality testing Services in addition to a wide range of field and laboratory tests on Soil, concrete & aggregate

2 AL-MUZN CENTER

CLIENT NAME: Majan Development Company (SAOC)
CONSULTANT: Amjaad Consultancy
YEAR: 2015

Scope of Work:

Quality Testing Services in addition to a wide range of field and laboratory tests on Soil, Concrete & Aggregate

3 DEVELOPMENT 14 –ABU TABUL

CLIENT NAME: Oman Oil (OCCEP)
CONSULTANT: VELOCI
YEAR:

4 ROSE FACTORY

CLIENT NAME: Public Authority for Craft
CONSULTANT: Industry
YEAR: ADSEC

5 PROPOSED INNOVATION PARK

CLIENT NAME: The Research Council - Sultan Qaboos University
CONSULTANT: Engineering Innovation Design & Consulting LLC
YEAR: 2014

6 PROPOSED VILLAS RCA DG VETERINARY

CLIENT NAME: Royal Court Affairs
CONSULTANT: Royal Court Affairs
YEAR:

DESIGN AND CONSTRUCTION OF INTERNAL ROADS

CLIENT NAME: Muscat Municipality
CONSULTANT: Muscat Municipality
CONTRACTOR: Al Hooqani United LLC
LOCATION: Quriat
YEAR: 2014

CLIENT NAME: Muscat Municipality
CONSULTANT: Muscat Municipality
CONTRACTOR: Al Hooqani United LLC
LOCATION: Ghala Hts.
YEAR: 2015

CLIENT NAME: Muscat Municipality
CONSULTANT: EAMAR Engineering Consultancy
CONTRACTOR: Al Hooqani United LLC
LOCATION: Baushar
YEAR: 2015

CLIENT NAME: Muscat Municipality
CONSULTANT: EAMAR Engineering Consultancy
CONTRACTOR: Al Hooqani United LLC
LOCATION: Al Khuwair
YEAR: 2016

CLIENT NAME: Muscat Municipality
CONSULTANT: EAMAR Engineering Consultancy
CONTRACTOR: Al Hooqani United LLC
LOCATION: Al Amrat
YEAR: 2016

Scope of Work:

Geotechnical investigation including land borehole drilling, quality testing Services in addition to a wide range of field and laboratory tests on Soil, concrete & aggregate



DESIGN AND CONSTRUCTION OF INTERNAL ROADS

DESIGN AND CONSTRUCTION OF FALEEJ LINK ROAD

CLIENT NAME: Muscat Municipality
CONSULTANT: Muscat Municipality
LOCATION:
YEAR: 2014

CONSTRUCTION OF VETERINARY CLINIC

CLIENT NAME: Ministry of Agriculture and Fisheries
CONSULTANT: Ministry of Agriculture and Fisheries
LOCATION: Al-Amrat
YEAR:

CONSTRUCTION OF EMERGENCY MEDICAL SERVICES FACILITIES

CLIENT NAME: Royal Oman Police
CONSULTANT: Al Sorouh Design Engineering Consultancy
LOCATION: Sohar
YEAR:

OMAN SAILING SCHOOL

CLIENT NAME: Oman Sailing School
CONSULTANT: Cowi & Partners
LOCATION: Sur
YEAR:

CLIENT NAME: M.R.M.E – Dunk
CONSULTANT: Muscat Municipality
LOCATION: Wilayat Dunk
YEAR:

FAHOD RIG PAD

CLIENT NAME: Petronas
CONSULTANT: VELOCI
LOCATION: Fahud
YEAR:

DRILLING 7BH. AND INSTALLATION A12CM PVP PIPE

CLIENT NAME: Sultant Qaboos University
CONSULTANT: Sultant Qaboos University
LOCATION:
YEAR:

B42 CIVIL PROJECT

CLIENT NAME: Oman Oil Company Exploration
& Production
LOCATION:
YEAR:

AL RUSAIL SUBSTATION

CLIENT NAME: Muscat Electricity
CONSULTANT: Atlas International Engineering
LOCATION:
YEAR:

RESIDENTIAL, COMMERCIAL AND INDUSTRIAL BUILDINGS

CLIENT NAME: Private
CONSULTANT:
LOCATION:
YEAR:

DRILLING



CHEMICALS



ASPHALT



SOIL AND ROCK



NTD



LIST OF MAJOR CLIENTS



شركة تنمية نفط عمان
Petroleum Development Oman



ROYAL OMAN POLICE



SULTAN QABOOS UNIVERSITY



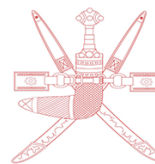
بلدية مسقط
MUSCAT MUNICIPALITY
MUSCAT MUNICIPALITY



MINISTRY OF AGRICULTURE
AND FISHERIES



MINISTRY OF OIL AND GAS



ROYAL COURT AFFAIRS

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

International Standards ensure that products and services are safe, reliable and of good quality, for business, they are strategic tools that reduce costs by minimizing waste and errors, and increasing productivity. They help companies to access new markets, level the playing field for developing countries and facilitate free and fair global trade.






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