



Maayar Laboratories
معيار للمختبرات



Geophysical, Geotechnical, Topographical and Material testing Lab



Riyadh, Tuwaiq 13793, Hassan bin Abdul Qadir Tayeb Road, Building No. 21



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Contents

01	Introduction	03
02	About Us	05
03	Organizational Structure	09
04	Accreditations and Experience	13
05	Maayar Departments	17
06	Quality Policy	38
07	Legal Documents	42
08	Contact Us	44



01

Introduction





Introduction

Since its establishment, Maayar Laboratory has delivered exceptional quality control services for projects valued at over 100 million SAR. We are dedicated to upholding the highest standards in material and work testing, strictly adhering to the latest specifications, and ensuring the presence of a fully qualified technical team for all tasks undertaken.

Our commitment to excellence extends to maintaining the highest levels of confidentiality and impartiality in all laboratory operations. Customer satisfaction remains our top priority, and we are always available to address any requests or inquiries.

02

About Us



Mission



Maayar Laboratory is a leading provider of engineering testing and quality assurance services in the construction sector. Established with a commitment to excellence, innovation, and precision, Maayar delivers comprehensive solutions that support every stage of a project from initial surveys and geotechnical investigations to advanced laboratory testing and analysis.

Our mission is to ensure that every structure we assess or support meets the highest standards of safety, durability, and performance. Through state-of-the-art technology, adherence to international standards, and a team of highly qualified professionals, we continuously strive to exceed client expectations and contribute to the advancement of the construction industry. At Maayar, quality is not just a standard it's our foundation..

Values



Lead by Example

Building trust through integrity, transparency and responsibility.



People Oriented

Valuing our team's expertise and dedication while prioritizing the needs of the communities we serve.



Sustainable Innovation

Striving for the highest standards in every project, ensuring quality, precision and sustainable innovation.



Collaboration

Building strong partnerships with clients, stakeholders, and global firms to deliver comprehensive solutions.

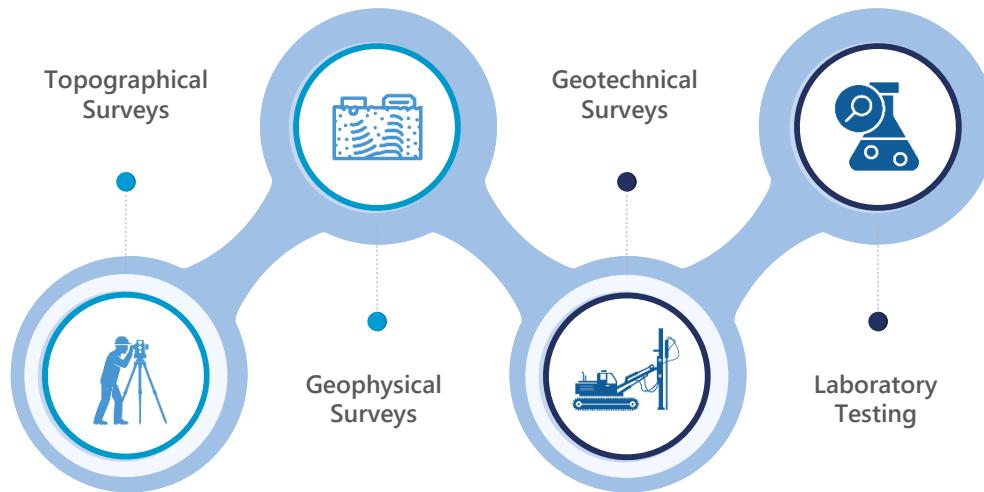
Our Services



Maayar Laboratory provides comprehensive solutions that cover the entire project lifecycle — from topographical and geophysical surveys to geotechnical investigations and laboratory testing.

With an integrated approach, we ensure excellence at every stage, delivering results that meet the highest standards of quality, accuracy, and reliability. Our laboratory offers innovative services in quality control and assurance for construction projects, conducting essential field and laboratory tests for buildings, roads, bridges, and landscaping works in full compliance with local and international standards.

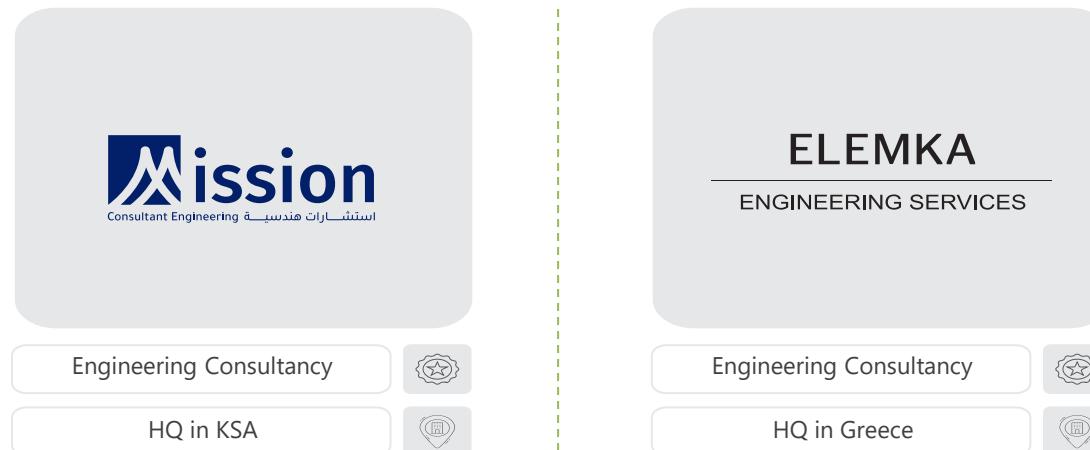
These services are carried out by a team of highly qualified engineers with extensive scientific and practical experience, supported by skilled technicians committed to precision and excellence.



Clients



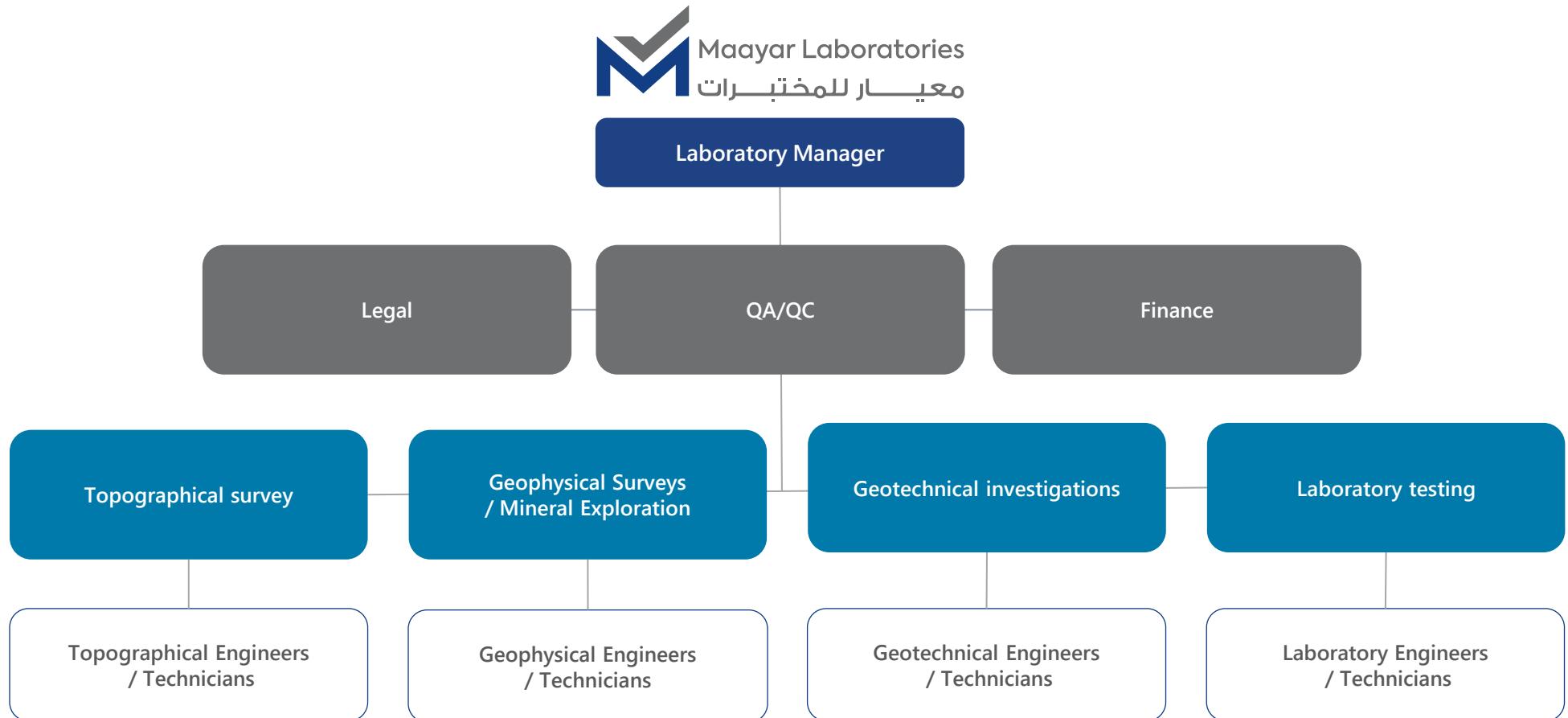
Strategic Relationships with Leading Firms



03

Organizational Structure





KEY Personnel



Eng. Ziad Al-Mahmoud

CEO - Maayar Laboratory

Education	<ul style="list-style-type: none"> Delft University of Technology, The Netherlands, MSc. Transport and Planning, 2007. Al Fateh University, Libya, BSc. Civil Engineering, 1997.
Membership in Professional Societies	<ul style="list-style-type: none"> Membership of the Saudi Council of Engineers Membership of the Dutch Council of Engineers
Languages	<ul style="list-style-type: none"> Arabic English Dutch



Dr. Wael Mohamed Ibrahim

Head of Quality Department

Education	<ul style="list-style-type: none"> Ph.D. in Civil Engineering - Ain Shams University, 2012. M.Sc. in Civil Engineering - Ain Shams University, 2007. B.Sc. [Very Good with degree of Honor] in Civil Engineering - Ain Shams University, 1997
Membership in Professional Societies	<ul style="list-style-type: none"> Consultant at the Saudi Council of Engineers Egyptian Engineering Syndicate Staff Member in Ain Shams University – Faculty of Engineering – Public Works Dept. - Assistant Professor Project Management Institute (PMI)
Languages	<ul style="list-style-type: none"> Arabic English.



Mohamed Khater

Chief Finance Officer

Education	<ul style="list-style-type: none"> Bachelor's Degree in Accounting – Cairo University (2010)
Membership in Professional Societies	<ul style="list-style-type: none"> Saudi Organization for Certified Public Accountants (SOCPA) KPI Professional – The KPI Institute (2023) International Financial Reporting (Cert IFR) – ACCA (2022) Financial Modeling & Valuation Analyst (FMVA®) – CFI (2022) Capital Markets & Securities Analyst (CMSA®) – CFI (2021) Banking & Credit Analyst (CBCA®) – CFI (2021)
Languages	<ul style="list-style-type: none"> Arabic English



Eng. Abu Bakr Osman Ali

Head of Laboratory Testing Department

Education	<ul style="list-style-type: none"> Master's in Road and Transportation Engineering, 2012. Bachelor of Civil Engineering from the University of Khartoum, 2004.
Membership in Professional Societies	<ul style="list-style-type: none"> Membership of the Saudi Council of Engineers
Languages	<ul style="list-style-type: none"> Arabic English



Eng. Abu AlQasim Mubashir

Head Of Topographical (Geomatics) Department

Education	<ul style="list-style-type: none"> Master's in Geographic Information Systems (GIS) and Remote Sensing – Sudan University of Science and Technology, Sudan, 2013. Bachelor's in Surveying Engineering – Sudan University of Science and Technology, Sudan, 2001.
Membership in Professional Societies	<ul style="list-style-type: none"> Membership of the Saudi Council of Engineers
Languages	<ul style="list-style-type: none"> Arabic English



Sajid Mehmood Jalil Qureshi

Head of Geosciences Department

Education	<ul style="list-style-type: none"> M.Sc. in Geophysics – Quaid-i-Azam University, Islamabad – 2002. Dissertation: 2D Seismic Reflection Data Interpretation of Chak Naurang Area, Pakistan
Membership in Professional Societies	<ul style="list-style-type: none"> Saudi Council of Engineers NEBOSH Level-2 Certified (UK HSE) OPITO Approved (THUET) SEG (Society of Exploration Geophysicists) PMP
Languages	<ul style="list-style-type: none"> English Arabic Urdu

04

Accreditations and Experience



Geophysical major projects			
S.No.	Client	Project Name	Scope of Work
1	ZETAS ARABIA	Sitarah 2000 MW Wind project - Layla KSA	Geophysical investigation - Electrical Resistivity Tomography (ERT) survey.
2	ZETAS ARABIA	Sitarah 2000 MW Wind project - Layla KSA	Vertical Electrical Sounding (VES) and Plate Load Tests (PLT) - Performing In-situ testing and reporting.

Lab testing major projects			
S.No.	Client	Project Name	Contract Value (SAR)
1	Riyadh Municipality	Implementation of Quality Assurance System for Buildings and Roads	54 million
2	Saudi Geological Survey Authority	Geotechnical Testing for Urban Area Survey – Makkah Region	500 K
3	Riyadh Municipality	Various Geotechnical Studies within Riyadh City for Bridge Design and Construction	50 K
4	Private Individuals	A Series of Small Contracts for Individual Contractors	337 K

Topographic (Geomatics) survey major projects

S.No.	Client	Project Name	Contract Value (SAR)
1	Saudi Authority for Industrial Cities and Technology Zones	Improvement and development of geographic data and systems, dashboards, and asset inventory	9 million
2	Eastern Province Municipality	Asset Survey & Classification for Advertising Sites in the City of Dammam	3 million
3	Saudi Authority for Industrial Cities and Technology Zones (MODON)	Asset Inventory and Management for MODON – Phase One (23 Industrial Cities)	18 million
4	Municipality of Asir	Surveying Studies and Elevations - Khamis Mushait Municipality	25 million
5	Ministry of Environment Water & Agriculture	Consultancy Services for the Surveying of Subdivision Plan No. 43 – Al-Rawasan	3 million
6	Salfo & Associates Arabia – Engineering Consultants	Surveying and Topographic Survey Services	250 K

□ Accreditation Certificate Comply with ISO/IEC 17025:2017



05

Maayar Departments



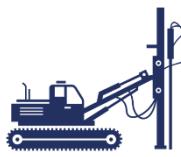
Our Departments



Topographical
survey
Department



Geophysical
survey
Department



Geotechnical
investigations
Department



Laboratory
testing
Department

Maayar Departments

Topographic Survey

Topographical (Geomatics) Department Lead



ENG. Abu AlQasim Mubashir

Head Of Topographical (Geomatics) Department

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-  www.maayar.sa

Education

- Master's in Geographic Information Systems (GIS) and Remote Sensing – Sudan University of Science and Technology, Sudan, 2013.
- Bachelor's in Surveying Engineering – Sudan University of Science and Technology, Sudan, 2001.

Membership in Professional Societies

- Membership of the Saudi Council of Engineers

Languages

- Arabic
- English

Relevant Experience

With 23 years of experience in surveying and geomatics, Eng. Abu AlQasim is a seasoned expert in topographical studies and GIS applications. He holds a Master's degree in Geographic Information Systems and Remote Sensing (2013) and a Bachelors in Surveying Engineering (2001) from Sudan University of Science and Technology. Currently serving as Head of the Topographical (Geomatics) Department, he has led major projects in land surveying, digital mapping, and geospatial analysis for infrastructure development. His expertise spans advanced surveying technologies, GIS software, and project management, ensuring precise and reliable data for engineering and construction projects.



Topographic Survey

Maayar Geomatics Department offers a full range of surveying and mapping services designed to meet the diverse needs of infrastructure, construction, and development projects. Our expert team employs advanced techniques and technologies to ensure accuracy, efficiency, and precision in every project.

Services:

- Topographical survey
- GIS Mapping
- Corridor alignments and profiling
- Establishing survey control network
- Underground Utility Detection
- Earthwork Volume Calculation
- Traversing & Level Loop Survey
- Pipe Route Demarcation Survey
- Quantity / Volumetric Survey
- As-built surveys
- Drone surveys
- Lidar 3D mapping

Maayar owns modern equipment, which facilitates the completion of field survey work in a short period of time and with high accuracy

Name-Model	Function
(LIDAR – Mobile Mapping System) Topcon IP – S3	Mobile mapping systems are powerful tools that enhance the efficiency and accuracy of geospatial data collection and analysis. Their functions extend across various fields, including urban planning, surveying, transportation, and environmental monitoring, making them invaluable for modern mapping and data management.
(Drone – RTK / PPK / VRS) EBee Plus	Drones are powerful tools to help in the mapping and surveying industry. They can effectively perform work for 3D mapping, land survey, photogrammetry, and topographic surveying by flying above the ground
(Handheld 3D Laser Scanner) ZEB HORIZON	Capture accurate 3D data of complex shapes, surfaces, and structures.
(GNSS Receivers) Leica	GNSS receivers play a vital role in navigation, positioning, timing, and data collection across various industries
(GPR) MALÅ Easy Locator series	GPR is a versatile tool that offers non-destructive, high-resolution imaging of the subsurface. Its applications span various fields, including construction, archaeology, environmental monitoring, and forensic investigations, making it an invaluable technology for subsurface analysis.
Apache 3 Pro	Global leader in unmanned surface vehicle (USV) technology, has launched the Apache 3 Pro, an advanced compact hydrographic drone designed for autonomous bathymetric surveys in shallow waters. With its lightweight carbon fiber hull, IP67 rating, and semi-recessed motor, the Apache 3 Pro offers exceptional durability and maneuverability.



Maayar Departments

Geophysical Surveys

Geophysical Department Lead



Sajid Mehmood Jalil

Head of Geosciences Department

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- ☎ +966-55-2640564
- 🌐 www.maayar. sa

Education

- M.Sc. in Geophysics – Quaid-i-Azam University, Islamabad – 2002 Dissertation: 2D Seismic Reflection Data Interpretation of Chak Naurang Area, Pakistan

Membership in Professional Societies

- Saudi Council of Engineers
- NEBOSH Level-2 Certified (UK HSE)
- OPITO Approved (THUET)
- SEG (Society of Exploration Geophysicists)
- PMP

Languages

- English
- Arabic
- Urdu

Relevant Experience

Mr. Sajid Jalil holds a Master's Degree in Geophysics, from Quaid-e-Azam University, Islamabad, Pakistan.

He has over 24 years of hands-on experience in managing Geophysical projects. Duties and Responsibilities:

Responsible for budgetary input, proposals and work plan preparation, field crew management, data QC, Survey Planning, supervision and direct involvement with the acquisition, processing, enhancement and interpretation of all geophysical testing.

Project management of Geophysical surveys.

Recommendation in purchasing and updating of equipment and software is also a part of his duty.

He is also responsible for giving the training to geophysical engineers and technicians in all branches.

Preparation of the Geophysical testing reports.

24 years of experience in MASW, ERT, GPR, RD, EM, Cross-hole and DH seismic, MG, Gravity, Magnetic and other techniques used in Mineral Exploration.



Geophysical Services for Mineral exploration, Infrastructure, Construction and Environmental Studies

The Earth Sciences Department at Maayar Labs offers advanced geophysical solutions to support infrastructure, construction, and environmental projects. Maayar Labs also provides extensive survey capabilities for Mineral exploration. Our focus is on precise subsurface characterization using cutting-edge technologies and international standards.

Led by experts with over 24 years of experience in geophysical engineering, Maayar Labs ensures high accuracy in data acquisition, processing, and interpretation delivering practical solutions for complex projects.

Services:



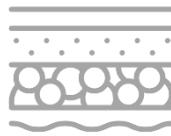
Mineral Exploration



Soil and Rock Studies for Projects



Geological Risk Assessment
for Environment and
Infrastructure



Site Evaluation and
Subsurface Layer
Identification

Advanced Equipment for Diverse Applications

Description
Electrical Resistivity Tomography (ERT)
Multichannel Analysis of Surface Waves (MASW)
3D Cavity Volume Estimation
Ground Penetrating Radar (GPR)
Radio Detection
Electrical Soil Resistivity Testing
Crosshole Seismic Testing (Direct)
Downhole Seismic Testing
Crosshole Seismic Tomography
Seismic Refraction
Vertical Electrical Sounding (VES)
Thermal Resistivity
High-Resolution Gravity and Magnetic Surveys

Geophysical Service Software

Description
ZONDRes2D – 3D
ZONDST2D
Surfseis 6.0
WinGEO-T
Res2D
MALAVision
virGIS
Leapfrog, Discover 3D

Geophysical Service Equipment

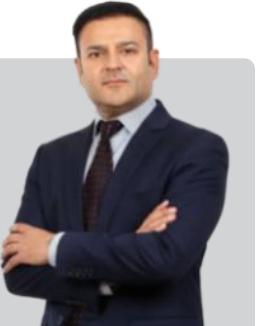
Description	Quantity
MAE X612EM+ 96 channels	1
MAE Sysmatrak-24 Channel (Land Streamer)	1
MALA EL Pro wide range GPR	1
MAE Cross-hole seismic equipment	1
MAE Downhole seismic equipment	1
Sonic Echo/Impulse Response SE/IR	1
TCR24	1
MAE Cronosonic	1
MAE VES equipment	1
MAE Seismic refraction equipment	1



Maayar Departments

Geotechnical Investigation

Geotechnical Investigation Department Lead



Sajid Mehmood Jalil

Head of Geosciences Department

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Education

- M.Sc. in Geophysics – Quaid-i-Azam University, Islamabad – 2002 Dissertation: 2D Seismic Reflection Data Interpretation of Chak Naurang Area, Pakistan

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- OPITO Approved (THUET)
- SEG (Society of Exploration Geophysicists)
- PMP

Languages

- English
- Arabic
- Urdu

Relevant Experience

Mr. Sajid Jalil holds a Master's Degree in Geophysics, from Quaid-e-Azam University, Islamabad, Pakistan.

He has over 24 years of hands-on experience in managing Geoscience projects. Duties and Responsibilities:

Responsible for budgetary input, proposals and work plan preparation, field crew management, data QC, Survey Planning, supervision of drilling team.

Project management of Geotechnical investigations..

Recommendation in purchasing and updating of equipment and software is also a part of his duty.



Geotechnical Investigation

Maayar Lab offers a comprehensive suite of Geotechnical Engineering services, supported by a team of experienced Engineers, Geologists, and Technicians. Their core services include:

- Geotechnical Investigation

Subsurface exploration through drilling, In-situ testing, providing soil and rock samples for geotechnical analysis.

- Grouting

Soil improvement and compaction grouting.

- Destructive Testing

- Coring

- Sampling

- Test Pits

- Wireline drilling

- Continuous stem

- Hollow stem Augers

- Soil Investigation, Boring and Sampling, SPT, CPT

- Soil Resistivity

- Plate Load Test

- Thermal Resistivity/Conductivity

- Installation of Piezometers (Water Table Monitoring Wells)

Geotechnical engineering list of equipment

SR NO.	Description	Quantity
1	Straight Rotary Truck Mounted Drilling Rig (Acker 2004 Model)	01
2	Straight Rotary Truck Mounted Drilling Rig (CME 2001 Model)	02
3	Tam Rock Drill Rigs	02
4	Atlas Copco Rock Drill Rigs	02
5	Furukawa Rock Drill Rigs	05
6	Atlas Copco Air Compressor (Assorted Model)	05
7	Drill Tech Rig, Model D40K for Water Well Drilling	06
8	Ingersoll Rand Rig, T4 & T5	04
9	Percussion Drill Rigs (local manufactured Rigs)	03
10	Water Tanker	01

Maayar Departments

Laboratory Testing

Laboratory Testing Department Lead



Eng. Abu Bakr Osman Ali

Head of Laboratory Testing Department



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Education

- Master's in Road and Transportation Engineering, 2012.
- Bachelor of Civil Engineering from the University of Khartoum, 2004.

Membership in Professional Societies

- Membership of the Saudi Council of Engineers

Languages

- English
- Arabic

Relevant Experience

With over 20 years of experience in civil engineering and quality management, Eng. Abubakr specializes in implementing and supervising quality assurance systems for large-scale infrastructure projects. He holds a Master's degree in Road and Transportation Engineering (2012) and a Bachelor's in Civil Engineering from the University of Khartoum (2004). His career spans leadership roles in material testing, geotechnical studies, and project quality control for municipalities and engineering consultancies. As a certified consultant with the Saudi Council of Engineers, he brings extensive expertise in ISO 17025 standards, asphalt and concrete mix design, and advanced project management methodologies, ensuring compliance with international quality benchmarks.



Laboratory Testing

It provides services and a modern vision in the field of quality control and assurance for the execution of building and road works. It conducts the necessary laboratory and field tests for building and road projects according to approved global and local standards and specifications. This is done by a team of engineers with scientific and practical expertise in the field and highly skilled technicians.



Accredited by the
Saudi Accreditation
Center (SAC).

Services:



Concrete Testing



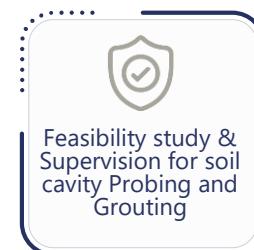
Soil and Aggregate
Testing and
Geotechnical
Studies



Asphalt Testing



Quality assurance
reports for
ongoing projects
and Special
Studies



Feasibility study &
Supervision for soil
cavity Probing and
Grouting



Pavement
Evaluation and
Testing &
Providing
solutions and
recommendations

Soil and Aggregate Section

Sieve Analysis Test

Atterberg Limits Test

Maximum Density (Proctor) Test

California Bearing Ratio (CBR) Test

Field Density Test

Sand Equivalent Test

Hydrometer Test

Clay and Granular Fraction Test

Los Angeles Abrasion Test

Sulfate Salt Erosion Test

Organic Impurities Test

Specific Gravity and Water Absorption Test

Pictures of soil testing laboratory equipment and site work tools



Asphalt Section

Marshall Asphalt Testing

Superpave Asphalt Testing

Asphalt Extraction and Gradation Test

Maximum Specific Gravity Test

Asphalt Density and Thickness Test

Stability, Flow, and Loss of Stability Test

Volumetric Properties of Asphalt Testing

Marshall Mix Design

Superpave Mix Design

Pictures of asphalt laboratory equipment + pictures from the site for the works



Concrete Section

Fresh Concrete Quality Control Tests on Site

Compression Tests for Concrete Cylinders and Cubes

Air Content Test for Concrete

Workability Test for Concrete

Compression Test for Concrete Core Sample

Concrete Mix Design

Compression Test for Kerbstones

Absorption Test for Kerbstones

Density Test for Kerbstones

Compression Test for Interlocking Tiles

Abrasion Resistance Test for Interlocking Tiles

Absorption Test for Interlocking Tiles

Compression Test for Concrete Blocks

Absorption Test for Concrete Blocks

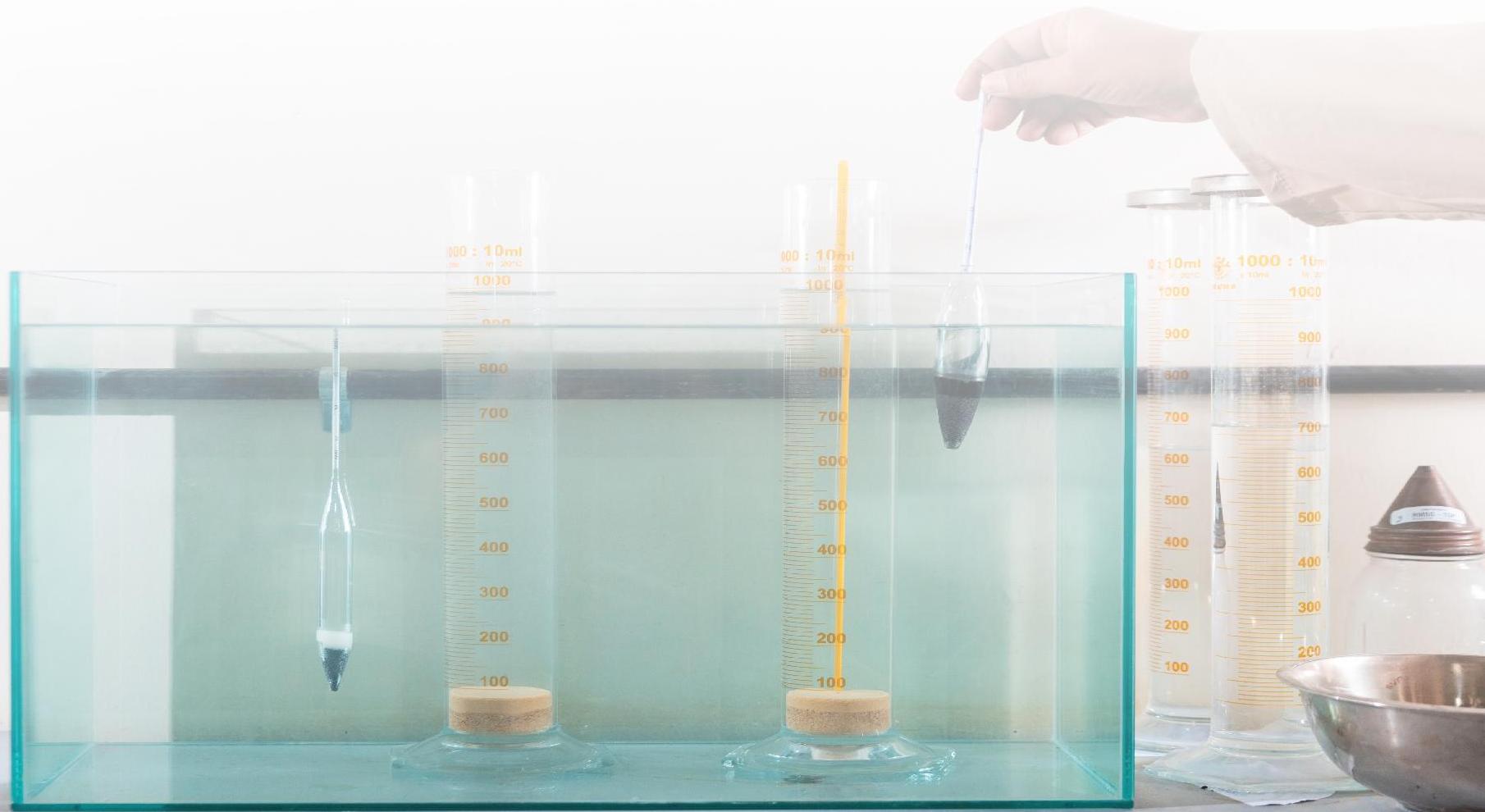
Slump Test and Temperature Test for Fresh Concrete

Pictures of concrete laboratory equipment + pictures from the site for concrete works



Chemical Tests

Maayar laboratory analyzes the chemical properties of all construction materials, including concrete, aggregates, bitumen, cement, concrete additives, rocks, soil, water, and many other materials.



06

Quality Policy



Maayar Laboratory is accredited by the Saudi Accreditation Center (SAAC) and complies with ISO/IEC 17025:2017 standards, covering:

Soil

Asphalt

Concrete

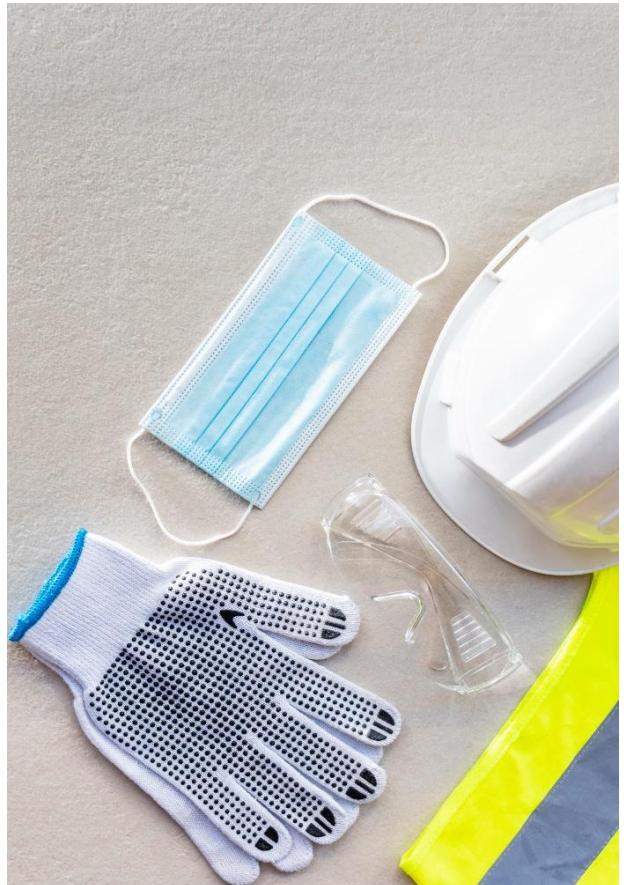
Quality Policy

Requirements of the ISO/IEC 17025:2017 Standard

The Latest Editions of International and Local Standards (ASTM, AASHTO, MOMRA, SASO ...)

Customer and stakeholder requirements and specifications.

Maayar laboratory places special emphasis on the work environment and employee working conditions, as they are one of the key pillars for the sustainability of operations. This is achieved by providing all necessary safety measures at the workplace and across various activities. The laboratory takes all necessary precautions and measures to prevent or significantly reduce work-related injuries, following both local and international standards and requirements.



- 01 Preparation of Quality Control and Assurance Plans for Work Execution and Supervision
- 02 Conducting Field Tests for Executed Works
- 03 Preparation of Periodic Quality Control and Assurance Reports for Ongoing Works
- 04 Evaluation of Concrete Product Factories in Terms of Quality System Application and Product Quality
- 05 Evaluation and Calibration of Asphalt and Concrete Mixers
- 06 Preparation of Technical Specifications for Materials in Construction Contracts
- 07 Preparation and Implementation of Training Courses in Material Testing and Quality Control and Assurance in Work Execution

07

Legal Documents





08

Contact Us





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