



Geomining Geological and Mining Consultant

GMC Group

Geomining

GSK

AlGhad Al
Moshreq



Geomining Geological and Mining Consultant







GMC

About Geomining

- **Geological and Mining Consultants Company (GMC)** was founded in **2012** as a private partnership, specializing in **geological and raw materials investigation consultancy** for the building materials sector, with a specific focus on the **cement industry**. The company leveraged the extensive experience of its founder and Managing Director, who had over **30 years of expertise** in the cement sector. During his career, he held the position of **Head of Geology and Mining** at **Lafarge Egypt** and **Orascom Construction Industries (Cement Division)**, overseeing geological studies and raw materials operations across the region. His earlier roles included work at **Assiut Cement Company** and **Helwan Cement Company**.





GMC

About Geomining cont.

- In 2016, GMC embarked on an ambitious growth plan, aiming to expand into related sectors by capitalizing on the technical know-how of its partners and executives. As part of this strategy, the company restructured itself as a **joint stock entity** named **GMC SAE**. It also formed a strategic partnership with **Anchor Building Materials SAE**, represented by **Dr. Ahmed Moharram**. This collaboration allowed GMC to synergize with the **ACE Moharram Bakhoun Group**, enhancing its capabilities through engineering and project management expertise. The result was a broader spectrum of developmental and engineering solutions.





Geomining ISO Certificates

iCAA.
International Conformity Assessment Authority

CERTIFICATE

iCAA, International Conformity Assessment Authority awards a certificate to
Geomining Geology & Mining Consultant
This certificate confirms the application and further development of an effective
Occupational Health and Safety Management Systems
Complying with the requirements of Standard ISO 45001:2018

Scope: Geological and Mining Consultations, Studies, Drilling Operations, Surveying, Factory Setup Advice, Mining Services, Contracting, Building and Raw Material Supply, and Export of Mining Products like Clinker and Cement.

Technical Area:
IAF Code(s) "32"

Address: Duplex Villa Number 403, 503, Fourth Floor, Building Number 15, Block Number 6, Third Sector, Zahraa El Maadi, Cairo, Egypt

Registration No.: ICAAEQV10033

Date of initial issue: 23/01/2024

Valid until: 22/01/2025

Expiry date: 22/01/2027

Cairo, 23/01/2024

A. Elrabbi
Ahmed El-Enabbi, Chief Executive Officer (CEO)

The validity of this certificate will be maintained through annual surveillance audits and a renewed audit every three years. To validate this certificate, click here, scan the QR code, or follow this link: <https://icaa.com/verify/certificate-validation>
Please write the Registration No. The format of the dates on this certificate is (Day/Month/Year).

ICAA IAF

FP-5-19-1-1/0/01-03-2023

iCAA.
International Conformity Assessment Authority

CERTIFICATE

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Quality Management Systems
Complying with the requirements of Standard ISO 9001:2015

Scope: Geological and Mining Consultations, Studies, Drilling Operations, Surveying, Factory Setup Advice, Mining Services, Contracting, Building and Raw Material Supply, and Export of Mining Products like Clinker and Cement.

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iCAA.
International Conformity Assessment Authority

CERTIFICATE

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This certificate confirms the application and further development of an effective
Environmental Management Systems
Complying with the requirements of Standard ISO 14001:2015

Scope: Geological and Mining Consultations, Studies, Drilling Operations, Surveying, Factory Setup Advice, Mining Services, Contracting, Building and Raw Material Supply, and Export of Mining Products like Clinker and Cement.

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ICAA IAF

FP-5-19-1-1/0/01-03-2023



Structure and Business lines

- Geomining was established with an initial focus on geological research to the cement industry.
- The company's proficiency stems from a renowned experience of its founders and executive management that spans the largest and most intricate cement projects in Africa, Europe, Asia, and the Middle East, over 30 years.





Structure and Business lines

- Rapid operational expansion into full quarry management and processing and strategic intent to expand geographically and grow processing/manufacturing base

Raw Materials Exploration	▪ Aerial photogrammetry and preliminary exploration ▪ Topographic survey ▪ Geophysical Measurements ▪ Overall Investigation and Design of Core Drilling Grid ▪ Sample Preparation and Chemical Analysis ▪ Distribution Maps ▪ Block Model ▪ Estimation of Elements Distribution ▪ Reserves Calculation
Mining Plan	▪ Long, medium and short-term planning ▪ Rehabilitation plan
Quarry Management /Operation and Minerals Supply	▪ Quarry management and operation for the cement industry ▪ Mining and supply of raw materials for the building materials industry in general
Minerals/Building Materials Processing and Manufacture	▪ Developing aggregates quarries and aggregates' crushing facilities ▪ Processing building materials for industrial use (prospected) ▪ Industrial development of cement plants (prospected)



Raw Material Exploration

Objectives

The primary objectives of the exploration are to understand and achieve the following:

- Understand the main geological features of the deposit area.
- Provide reliable information of the deposits quality and quantity.
- Ensure steady supply of raw materials with regards to quality and quantity.
- Ensure optimum utilization of resources with respect to lifetime, costs and waste.
- Ensure that the mining plan is matching with the environmental assessment plan.



Raw Materials Exploration :

Aerial Photogrammetry

Aerial images help obtain early regional information about the studied area.



Photo: image of a project area in Saudi Arabia.

Defining the occurrence and relation between different formations is part of the field study.



Photo: Marble deposit of a project in Saudi Arabia.



Preliminary Exploration

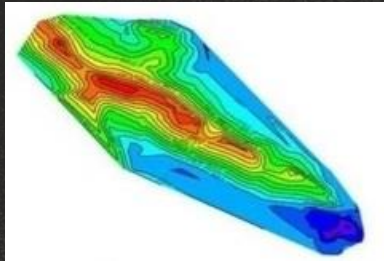
- The main target of the preliminary exploration is to judge whether the deposit is promising or not and whether we can go further or look for other areas.
- A team of expert geologists visit the proposed deposit area and record all geologic features. • Representative samples are collected over a wide range in a way that reflects the situation of the deposit.
- The surface weathered part of the deposit is removed or trenches are made to remove the surface weathered part and collect the desired samples
- Reveals to some extent the nature and homogeneity of the deposit, the lateral and vertical variation and hence the suitability for industrial needs.



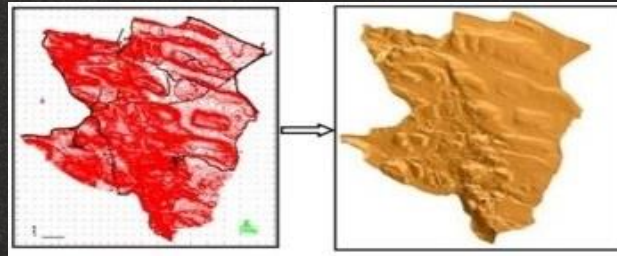
Photo: Trench sampling during the preliminary exploration for a project in Iraq.

Topographic Survey

- A precise topographic survey of the prospecting area is carried out, then contour maps are prepared with a scale up to 1:1000, and Digital Terrain Modeling (DTM) is used to model the exact topography of the studied area.
- A precise survey should accurately reflect the terrain and accessibility and help to design the roads through the area.
- Necessary for calculating the reserve of the deposit later on, whereby it gives precise information about the variable thickness of the deposit due to the topography profile.
- Contouring is done using reliable computer software.



Topographic contour map of a limestone deposit for a project.



Topographic contour map of processed into Digital Terrain Model prior to the calculation of the deposit reserve



Geophysical Measurements

- Geophysical measurements are carried out to provide an insight into the deep characteristics of the deposit, and define the boundary between strata.
- Give a fast and reliable image about the bottom of each of the penetrated beds.
- Indicate the potential existence of under ground water, and if this exists economically in a way that can be used in the production process. Very shallow underground water can represent a challenge for mining and blasting operations.



Photos: Resistivity measurements for an new project in Iraq



Overall Investigation and Design of Core Drilling Grid

- Contouring is done using reliable computer software Having drawn an idea about the quality of the deposit and the terrain of the area, the core drilling grid is designed, with suitable spacing typically ranging between 100 to 400 m.
- In case of fluctuation in the quality of the deposit as revealed from the initial core drilling grid, infill drilling is made in between to minimize the spacing between the previously collected boreholes.
- Core drilling is performed at the predetermined locations using rotary drilling rigs with continuous sampling along the complete depth of the bore hole.

Work is performed as follows:

1. Air or fresh water circulation is used during the boring process to flush the drilling cuttings away, and to cool-down the drilling pits.
2. Continuous cores of all kinds of strata are recovered and special drilling pits, short drilling runs with reasonable diameter of samples (minimum 76 mm), are used to ensure high recovery (not less than 95%).
3. Casings are installed inside the bore holes especially at upper layers (if necessary).

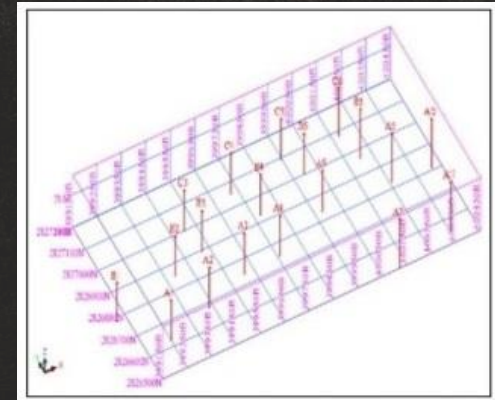


Image: Core sample boreholes grid of a project in the UAE.



Overall Investigation and Design of Core Drilling Grid cont.

4. All extruded samples are placed in sequence within standard wooden boxes with the scale, color chart, and labels showing the project name, location, and depths to the top and bottom of each core run.
5. Description of rock formations and borehole logs are done as drilling operation proceeds.
6. Sample boxes are stored for future reference.



Photo: Core drilling machine drills through limestone deposits at a project in Iraq.

Rotary drilling rig with core barrel sampler is used for best core samples recovery.

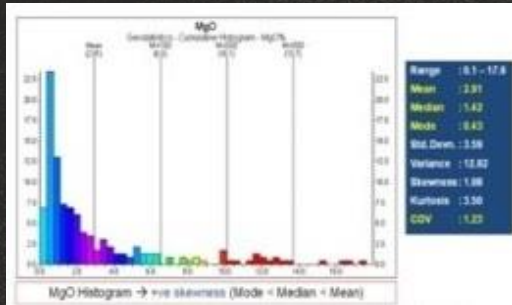


Photo: Limestone core samples from a project in Iraq.

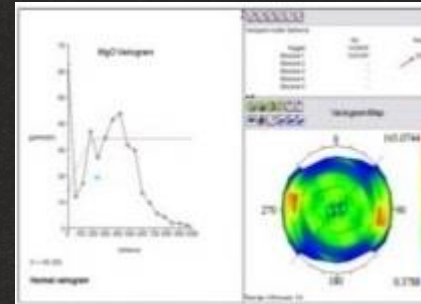
Core samples are stored in series in wooden boxes.

Geo-statistical Analysis

- Geostatistical analysis of data helps to measure the reliable deposit grade. to top-cut the extreme grades of undesired species which may give misleading idea about the total average of the deposit, and generally to filter the data of any misleading information.
- Results of complete chemical analysis are processed and interpreted using geo-statistical techniques to understand the deep behavior of the deposit grade.
- Geo-statistical parameters are calculated for each chemical species such as the mean, median, mode, standard deviation, variance, skewness, kurtosis and coefficient of variation (CoV).
- Histograms of each chemical species are drawn which reflect the uniformity and sorting of the deposit grade.
- Variogram maps are prepared to infer the direction of maximum continuity of the deposit grade in three dimensions, which in turn is the desired extension of the deposit.



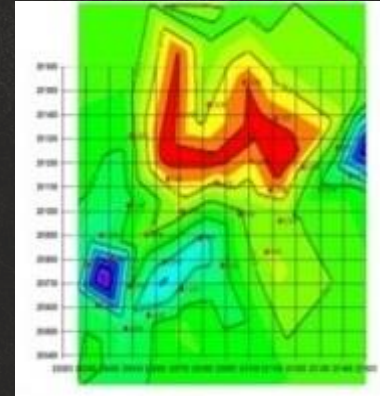
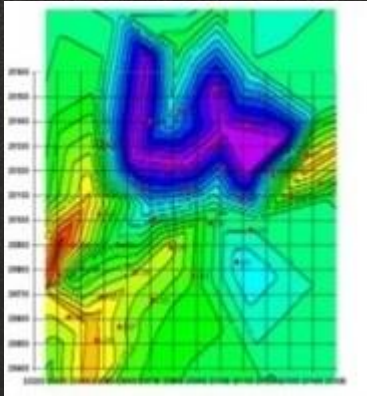
Example of the geo-statistical analysis of raw materials using histograms for MgO from a project in KSA.



Example of the geo-statistical analysis of raw materials using variogram mapping for MgO in a marble deposit in KSA.

Distribution Maps

After refining the data through the geo-statistical analysis phase, iso-chemical distribution maps for the deposit grade are prepared for each chemical species, which help to give rapid visualization of the grade classification, and indicate the ranges of each chemical species.

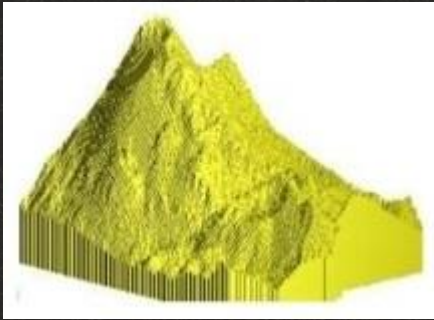


Examples of iso-chemical maps for a project in Algeria.

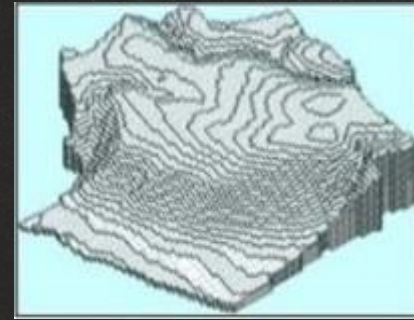


Block Model

- The deposit body is modelled, using the topographic survey works done, in the three dimensional space, packed inside a number of blocks, each having a definite block dimension.
- The block dimension is defined according to different parameters such as: the vertical and horizontal uniformity of chemical analysis, the roughness of topography of the deposit area, the expected bench height, the percentage of storage efficiency of the deposit body inside the block model, and the annual consumption of the material during operation.



Block model of a project in KSA.

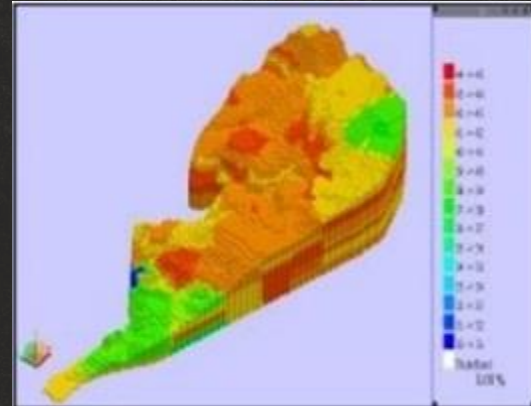
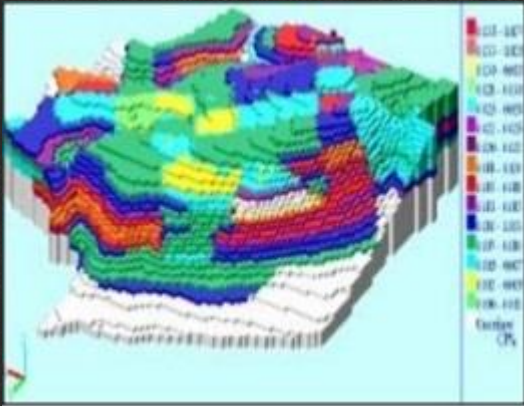


Block model of a project in Algeria.



Estimation of Elements Distribution

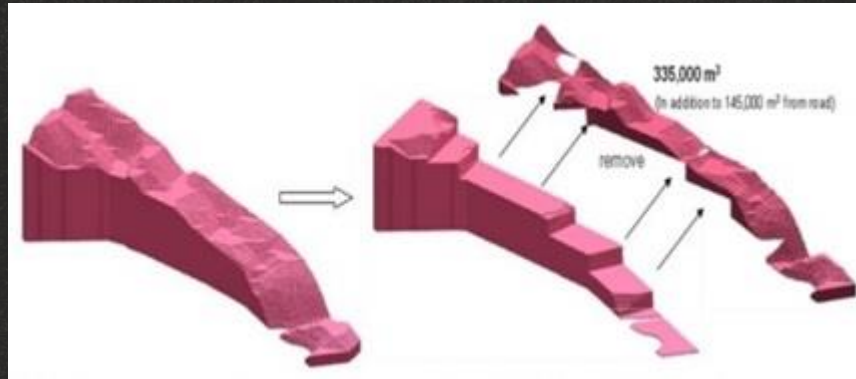
- A database that contains all the data obtained for boreholes is prepared: collar data, chemical analysis of all samples with co-ordinations, any existing structural elements, and survey points.
- The database is used accompanied with the block model to make estimations of the chemical composition of all blocks using different estimation techniques.
- After estimation of the whole model, the grade of any part of the deposit can be inquired with precision up to a single block dimension



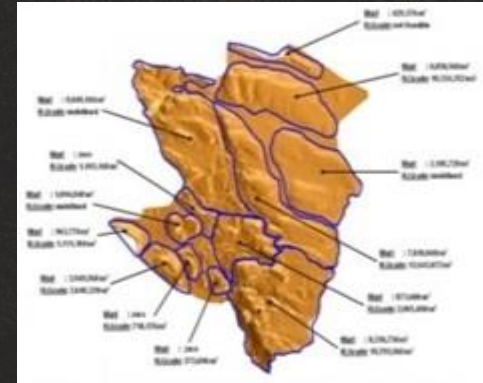
Samples of block models created for new projects, after the estimation of the grades of each block using the database of drilling and survey data.

Reserve Calculation

- The block model can be perfectly used to calculate the reserve of the whole or any part of the deposit body; bench by bench, above or below a certain level or any specified part of the deposit.
- Another material volume-calculation is that of the cut and filling activity during quarry opening works. The calculation depends in this case on modelling the two situations before and after the activity to calculate the material extracted/dumped. This could be done before the physical work to estimate the equipment, budget and time required to get the job done



Example of the cut and filling calculation of the quarry opening activity of a project in the UAE.



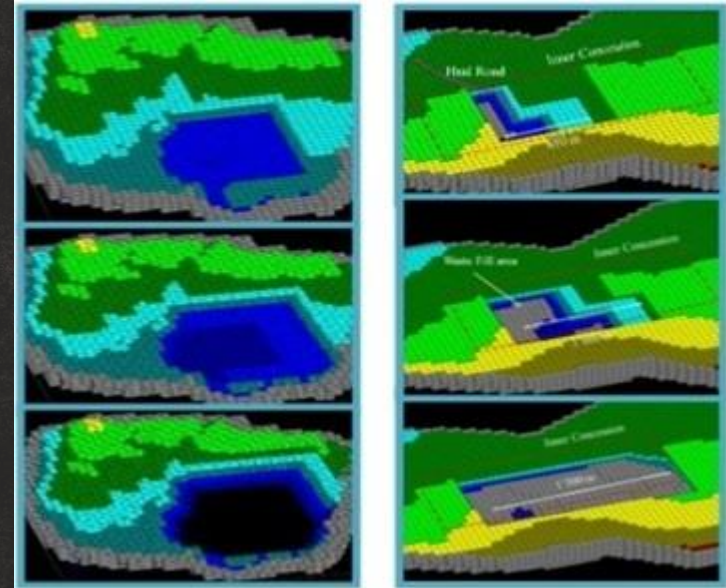
Reserve calculation of deposits in a mining lease of a project in Pakistan. The area was needed to be divided into (13) separate zones.



Mining and Rehabilitation Plan

- Results from the previous exploration and overall investigation phase are utilized to determine the quarry management plan:
- Long-term plan To utilize the available raw material with minimum waste, the LTP will be used after finalizing the overall study report.

Long-term planning of limestone (left) and clay deposits of a project in Egypt.





Mining and Rehabilitation Plan Cont.

Medium-term plan

Mining and Rehabilitation Plan

A five-years plan is applied subject to the change in the progress of the quarry and the needs of the production process. This plan concentrates on the cost of the materials extraction, cost of the corrective materials, available extraction and transportation equipment and the quality required as per the market needs.

Short-term plan

A yearly plan that should be aligned with the annual overall objectives and targets. This plan is strictly applied in cooperation with the quality control team and affects the daily production process and subsequently the annual targets. Short term planning is carried out by collecting powder resulting from drilling machines equipped by automatic samplers, and apply full chemical analysis on it before blasting. The result of the chemical analysis helps to know the definite quality of the prospecting blasting within the following few weeks and help adjust the quarry management plan and determining amounts and quantities of correctives.

Rehabilitation plan

The process of returning the land in a given area to some degree of its former self. Rehabilitation aims to minimize and mitigate the environmental effects of mining activity which involves movement of significant volumes of rocks.



Geomining Previous Projects

1) Geological Investigation / Raw Material Assessment / Mining Plan for the Egyptian Cement Factory





Geomining Previous Projects

2) Supply of Basalt to El
Sewedy Cement
Factory



3) Geological investigations, Raw
material assessment and
Mining Plan for Dolomite
quarry at Attaqa mountain for
Reliance Company





Geomining Current Projects

1) Total Management of
Lafarge Basalt Quarry



2) Total Management of
Lafarge Clay Quarry Km
52



3) Total Management of
Lafarge Clay Quarry Km 12

4) Supply of Basalt for
Orascom Company For RTL
(Train)



Geomining Current Projects

5) Supply of Basalt for
GlassRock company



6) Supply of Basalt to
ASCOM Geology &
Mining

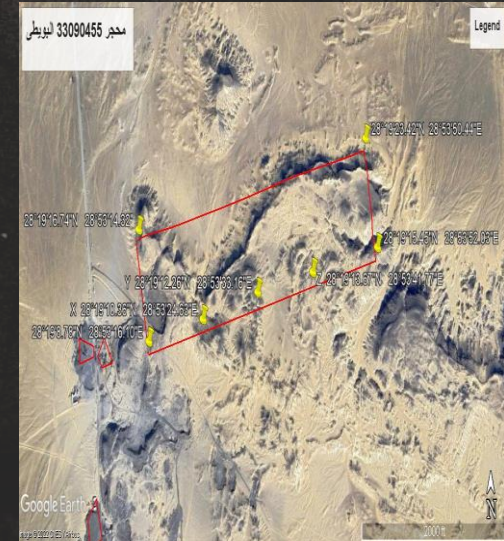


7) Sinai Cement Total
Quarries Operation



Geomining Current Projects

8) Geomining Basalt crusher at Bahariya Oasis





Our Clients





Quarry Management and Raw Materials Supply Cont.

- The company currently has a significant backlog of quarry management and supply contracts for different raw materials used as feedstock for the cement and glass industries.
- We now operate the clay quarries supplying a monthly tonnage of more than 120,000 tons of clay used in the production of 8.5 mtpa of cement by Lafarge Egypt.
- Our quarry management and operation contracts involved the management and supply of 540,000 tons of sand used for cement manufacture in Egypt.
- Other projects involved the supply of gypsum, iron ore, kaolin, anhydrite, basalt, feldspar and serpentine for building materials' manufacturers.
- We have prospects to expand our quarry management and raw materials supply operations geographically and spanning different products/minerals such as iron ore, manganese, basalt, kaolin, limestone, clay, marlstone, etc.



Minerals/ Building Materials Processing and Manufacturing

- One of the important lines of business of GMC is the operation of quarries, and processing and supply of processed minerals/building materials for different industries.
- We currently own and operate facilities that produce more than 450,000 cubic meters per annum of crushed aggregates of different sizes, for use in the construction sector and other industries.
- Located in Bowiti Oasis, 350 km from Cairo, our basalt quarry and crusher, produces a daily volume of 1,500 cubic meters of basalt aggregates, of sizes 1, 2, and 6 for the construction sector mainly, in addition to sizes 2-12 for glass manufacturing.
- We are currently in the process of studying the expansion into minerals processing/beneficiation to produce processed minerals such as kaolin and ground quartz.

Basalt crushing, and minerals processing are amongst our main lines of business...





GMC

Cement Plant Operations and Technical Assistance

- The significant experience of our executives, managers and shareholders spans more than 30 cement plants in Africa, Asia and Europe.
- This vast unprecedented experience is capitalized upon by providing technical assistance to operating teams of cement plants or stepping in to manage the quarry and mining operations of newly-developed plants or existing ones willing to turnaround operations and improve operational efficiency.
- The experience and credentials of our team and our human resource network in the field of cement manufacturing enables us to call upon the best personnel in the field and provide full cement plant operations, or a wide spectrum of technical support.
- Our technical support services in the field of raw materials and mining management covers the following:
 1. Follow-up on the mining plan and its actual impact on the produced raw mix.
 2. Check the application of short and long-term plans every 1-2 years.
 3. Improving the quality of the raw material and enabling cost optimization by further geological investigation for the existing deposits and/or other external deposits.
 4. Training support for existing and new staff..



Sinai Cement Total Quarries Operation (Limestone / Clay / Sand / Basalt)



- Starting from 1st of January 2022 GMC start the full Total Operations Management for Sinai Cement quarries include limestone, clay, Sand include mining plan
- With Daily production 15k ton limestone, 7K ton Clay and 500ton Sand
- 4 Bulldozer, 4 Jack Hummer, 32 Truck, 9 loader and 4 drilling Machine
- All drilling and blasting operations





Strategic Alliances

GMC is in a strategic alliance with ACE Moharram Bakhoun Group, in which the alliance would complement the developmental side of GMC's activities through providing different engineering and project management tasks necessary for the development of greenfield projects as well as expansions and rehabilitations of existing ones.

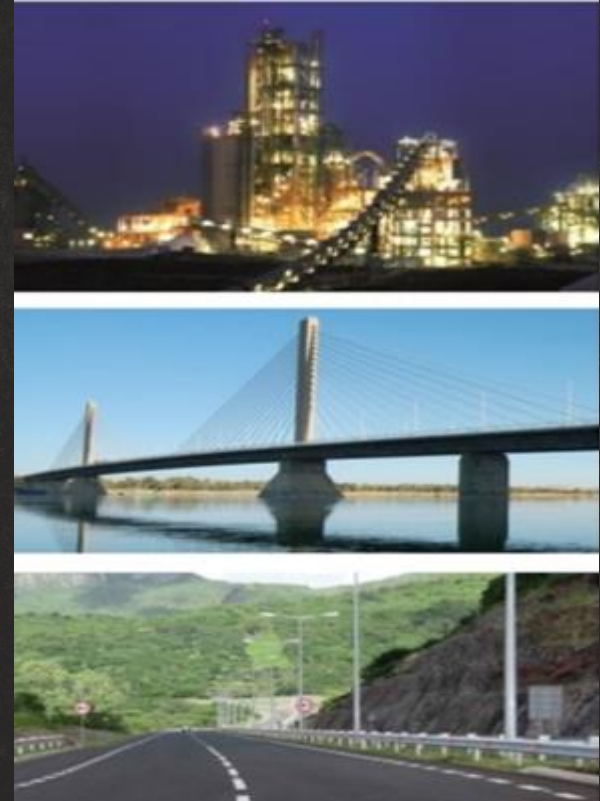
These services would generally cover:

- Development and project management (PMO office - tender and procurement management - contracts formulation and administration - construction management - cost management - etc.). Planning and engineering design (structural - civil - MEP - architectural), and relevant tender documents preparation.
- Construction supervision.
- Geotechnical investigation, foundation engineering, and soils and materials testing and quality assurance.



Strategic Alliances Cont.

ACE Moharram Bakhoun is a project management and engineering group established in 1950 that has a long-standing experience in large, complex and demanding infrastructure, transportation, industrial, irrigation, residential, and commercial projects. ACE has a projects' list that encompasses thousands of projects, thousands of kilometers of roads, a considerable list of bridges, airports, wastewater treatment plants, multi- purpose buildings and industrial complexes. The group has a workforce of around 2,100 employees through 12 branches in 11 countries and with its projects spanning around 40 countries..





Track Record

Past Experiences

The accumulated experience of our executives, management and shareholders covers raw materials/quarries management, plant development/operation and intricate geological studies for cement plants and other building materials plants. This covers more than 15 countries in Africa, Europe and Asia and with more than US\$ 10 billion worth of investments.

30+

Projects

15+

Countries

10+

Bn US \$
Worth of Projects

30+

Years



Past Experiences

Track Record

30+
Projects

15+
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10+b
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Past Experiences

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Past Experiences

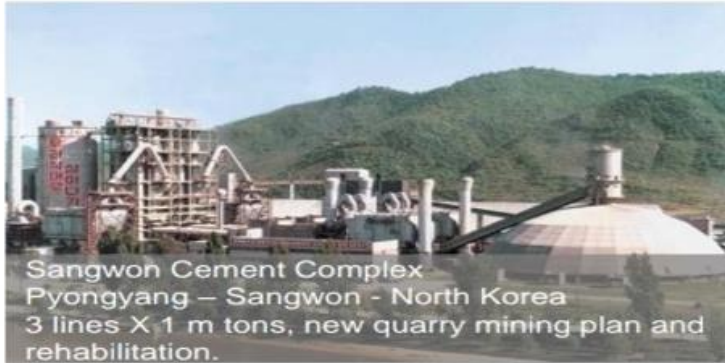
Track Record

30+
Projects

15+
Countries

10+b
US \$
Worth of Projects

30+
Years





Past Experiences

Track Record

30+
Projects

15+
Countries

10+b
US \$
Worth of Projects

30+
Years





Key Personnel





Gel. Mohamed Hosny

Position: Chairman and CEO

Experience:	Position:	Company:
1980 – 1982	Geologist	Helwan Cement Company, Egypt
1982 – 1983	Geologist	Assiut Cement Company , Egypt
1984 – 1989	Limestone Quarry Operation – Section Head	Assiut Cement Company , Egypt
1990 – 1992	Limestone Production Manager	Assiut Cement Company , Egypt
1992 – 1992	Cement Mills Production Manager	Assiut Cement Company , Egypt
1993 – 1993	Main Quarries Production Manager	Assiut Cement Company , Egypt
1994 – 1995	Production Manager – Line 1 (1.5 m Tons)	Assiut Cement Company , Egypt
1995 – 1996	Project Manager, Basalt Quarry and crushing Plant	Orascom Egypt



Gel. Mohamed Hosny

Position: Chairman and CEO

Experience:

Position:

Company:

1996 – 2001

Raw Material and Mining working Director

Egyptian Cement Company

2001 – 2007

Group Director For Raw Material and Mining Operations

Orascom Egypt

2007 – 2012

Group Director Of Geology and Mining Operations

Lafarge Egypt

2012 – Present

Founder And Managing Director

GMC (Limited Partnership)



Consultant Expert Certificate

**Mohamed Hosny Mohamed Mahmoud
Makram**



Reg No : 15769 Class No : 2339 Division : Geology

Certificate No : 2024/3/000093

Certificate Date : 2024/07/31

Issuing Branch : General
Union

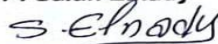
Certificate Duration : 2024/07/31

Expiry Date : 2027/07/31

**Consultant Expert in the field of :
Geological Studies and Mining Projects**

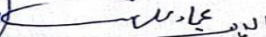
Scientific Committee

Dr : Salah Elnady



Judicial guard

Prof : Emad Ali Shams





Gel. Ayman Abdelaal

Position: Vice President

Experience:

Position:

Company:

1989 – 1995

Exploration Geologist

Bakka Company For Mining
And Quarrying

1995 – 1997

Geological Research Site Manager

Arab Swiss Engineering Company
(ASEC)

1997 – 1999

Team Leader – Quarry Operation

Egyptian Cement Company

1999 – 2006

Team Leader Quarries Exploration and Planning

Egyptian Cement Company



Gel. Ayman Abdelaal

Position: Vice President

Experience:	Position:	Company:
2006 – 2009	Process Leader – Clays, Additives, Exploration and Planning	Egyptian Cement Company
2009 – 2014	Works Director –Quarries, Crushers And Mobile Equipment	Lafarge Cement Egypt
2014 – 2015	Quarries and Production Director	Lafarge Cement Egypt
2015 – 2016	Operation Director	Lafarge Holcim Egypt
2016 – Present	Co-Founder and Vice President	GMC (Limited Partnership)



Consultant Expert Certificate

Ayman Mohamed Abdelaal Mohamed

Reg No : **30443**

Class No : **5720**

Division : **Geology**



Certificate No : **2024/3/000105**

Certificate Date : **2024/03/05**

Issuing Branch : **General Union**

Certificate Duration : **2024/03/05**

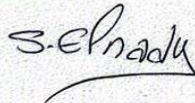
Expiry Date : **2027/03/05**

Consultant Expert in the field of :

Mining Geology

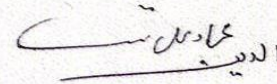
Scientific Committee

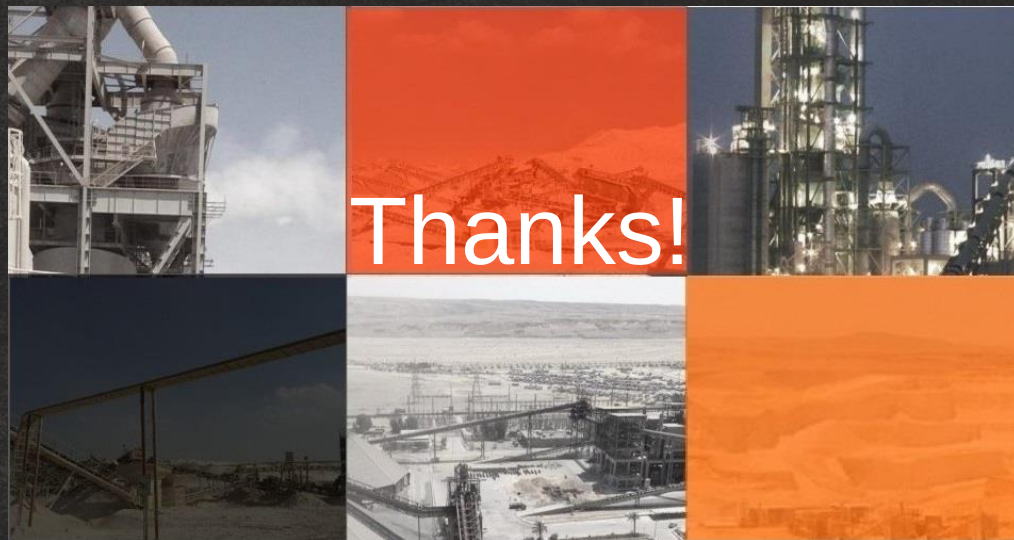
Dr : Salah Elnady



Judicial guard

Prof : Emad Ali Shams







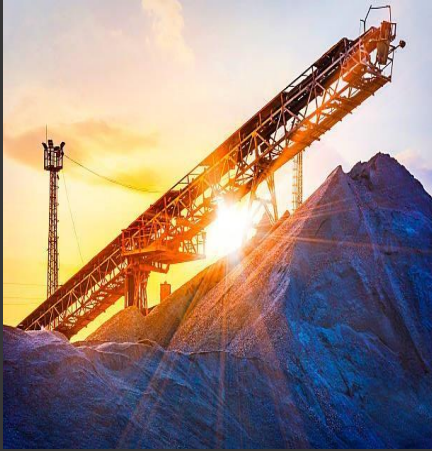
GSK MINING & Trading COMPANY

GSK MINING COMPANY

**INVEST
FUTURE**

IN YOUR

ABOUT GSK MINING



GSK Mining business is a private limited business that aims to develop its operations across the Middle East and establish a position in the international market.

GSK MINING COMPANY was founded in Egypt to provide world-class mineral exploration and mining support services to mining firms primarily in Egypt, .We provide a broad range of technical services, including drilling, surveying, ore reserve estimations, orebody modelling, project management, and geology. planning for mine output, mine management, and mining designs. We handle our projects with a workforce that possesses the critical technical and managerial skills.

GSK MINING COMPANY is a pioneering mining organization founded to fulfil the kingdom's vision of creating a modern technological mining system, Targeting implementation industry for technological advances across the entire mining value chain to optimize processes and business outcomes.



To expand sustainability and establish ourselves as the best and most influential firm in the MENA area for mining, drilling, and exploration services.

To being recognized by their clients as the greatest business partner and achieving the highest degree of excellence in exploration and mining services.



To offer and assist our clients with the best services possible at a price they can afford, together with long-lasting technical support, while also meeting their needs and maximising their benefits.

To offer the highest safety and environmental standards to provide a secure and highly professional work environment.

Safety : Prioritise safety above anything else.



Respect :Treat with respect and human decency.

Integrity : Keep our word and are trustworthy.

Sustainability: Contribute in a constructive way to a lasting world.

Excellence : Prioritise constant development in order to create a high-performing culture.

Together, we work to create a fantastic business.

Our Services

Geological Studies

Ore Body Modeling

Reserves Estimation

Surveying

Mining Plan

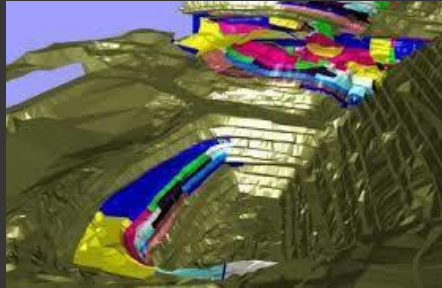
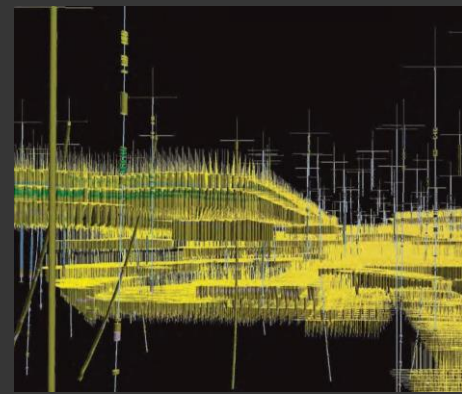
Drilling

Blasting

Quarries Total
Management

Mines Rehabilitation Studies

Technical Consultation



Geological Studies Works

- ❖ Preliminary Raw Material Investigations.
- ❖ Overall Raw Material Investigations.
- ❖ Geological Mapping and Cross-Sections.
- ❖ Geophysics.
- ❖ Raw Mix Design.
- ❖ Structural Geology.
- ❖ Application of “SURPAC”
- ❖ Computer Aided Deposit Evaluation.(CADE)
- ❖ Drill Hole Data Base.(DHDB)
- ❖ Deposit Block Model.(DBM)
- ❖ Resource Estimation For Geological Deposits (JORC).

Preliminary Raw Material Investigations.

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Preliminary Raw Material Investigations.

Sequence of Operations in Exploration & Development of Reserve

➤ Reconnaissance

Geological Mapping
Prospecting
Geochemistry
Geophysics

➤ Preliminary

Geological Mapping
Prospecting
Geochemistry
Geophysics
Limited Drilling

➤ Detailed Follow up

Drilling
Limited metallurgical testing

➤ Feasibility Study

Drilling
Metallurgical Testing
Mine Design

Preliminary Raw Material Investigations.

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Mintec 6 Rotary Drilling Rig



Surveying Works

- ❖ Contour Maps.
- ❖ Topographic Maps.
- ❖ Profiles.
- ❖ Cut and Fill Designing
- ❖ Traverse Network.
- ❖ Grid System.
- ❖ Road Designs.
- ❖ Settlement Monitoring
- ❖ Equipment Alignment.
- ❖ Stockpiles Volumes Calculations.

Mining Planning & Quarry Design

- ❖ General Mining System.
- ❖ Quarry Opening Plans.
- ❖ Optimal Pit Design Surpac Software.
- ❖ Design Access Roads.
- ❖ Quarry Development Mechanism And Impacts.
- ❖ Choice and Sizing OF Equipment.
- ❖ Define Processes OF Quarrying.
- ❖ Production Calculations.
- ❖ Matching Machines For Combined Operations.
- ❖ Calculate Unit Production Cost.
- ❖ Design Long- and Short-term Mining Plans.
- ❖ Design waste dumps, Stockpiles, Ramps.
- ❖ Quarry Scheduling Optimization Plans.

Drilling Works

- ❖ Diamond Core Drilling.
- ❖ Rotary Drilling.
- ❖ Reverse Circulation Drilling.
- ❖ Wire Line Drilling.
- ❖ Drilling Pattern Design.

Blasting Works

- ❖ Management of Explosives Magazines.
- ❖ Design Blast holes pattern.
- ❖ Blast Hole Charging.
- ❖ Blasting Consultants.
- ❖ Drilling and Blasting Proposals.
- ❖ Quarry Benches Profiling (MDL LaserAce - Burden finder).
- ❖ Blast Hole Deviation (MDL Boretrak - cabled).
- ❖ Blast Monitoring (MREL High Speed Video Camera).
- ❖ Blast Vibration and Air Pressure Measurement.
- ❖ Velocity Of Detonation (VOD) Measurement.
- ❖ Cost Optimization Study.
- ❖ Applying High Safety Rules & Regulations.

Quarries Total Management Activities

- ❖ Define Applicable Quarrying Processes.
- ❖ Applying Master Mining Plan. (Mineshed-Surpac Software)
- ❖ Analysis OF Achieved Production V.S Planned Production.
- ❖ Managing drilling, Blasting, Loading, Hauling and dumping operations.
- ❖ Crushing and Conveying Operations.
- ❖ Raw Materials Quality Control.
- ❖ Implement Cost Optimization Initiatives.
- ❖ Achieve High Overall Equipments Effectiveness.(O.E.E.)
- ❖ Control Mining Fleet Idle time, Power, Fuel, Spare Parts and Manpower Utilization.
- ❖ Applying Risk Management Procedures and Mitigation Plans.

Quarries Total Management Activities

- ❖ Preparation for Detailed Rehabilitation & Closer Plans including :
- ❖ Geotechnical Studies and Slope stability.
- ❖ Designing Major closing benches, ramps as regulations considering mines reserves
- ❖ Designing the planned volumes for barriers, emergency roads and entrances.
- ❖ Mines Closer Cost breakdown Estimations.
- ❖ Relevant regulatory requirements and other guidelines.
- ❖ Effective consultation with key stakeholders.

Basalt Wadi Hagul

**WADI
HAGUL, SUEZ**



Basalt SINAI Cement

**Basalt Sanai
Cement**



Aswan Clay

**Wadi Abu
Agag, Aswan**



Aswan Iron ore

**Wadi Abu
Agag, Aswan**



Zafarana Gypsum

Red Sea Gypsum



Our Clients



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CEO & Co-Founder

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Visit our Website

<https://gskmining.com/>



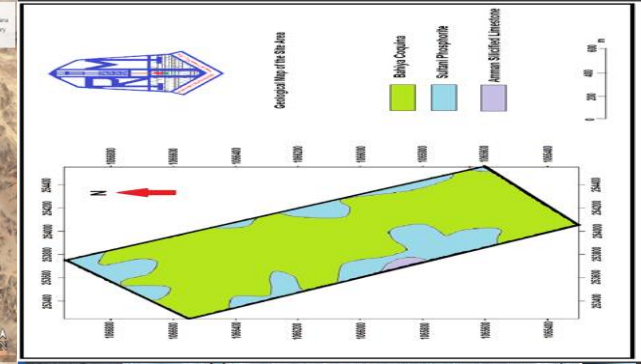
ALGHAD ALMUSHRIQ FOR MINING

ALGHAD ALMUSHRIQ Mining

❖ **ALGHAD ALMUSHRIQ MINING COMPANY** entered the Saudi Arabia Market in 2024 .We provide a broad range of technical services, including drilling, surveying, ore reserve estimations, orebody modelling, project management, and geology. planning for mine output, mine management, and mining designs.We handle our projects with a workforce that possesses the critical technical and managerial skills. **GSK MINING COMPANY** is a pioneering mining organisation founded to fulfil the kingdom's vision of creating a modern technological mining system,Targeting implementation industry 4.0 technological advances across the entire mining value chain to optimise processes and business

Qatrana Cement Project

Updated Limestone quarry Mining Plan



Qatrana Cement Project

Updated Limestone quarry Mining Plan

