

ATRC advance



شركة ترقيم المتقدمة  
للتطوير والاستثمار العقاري  
قطاع التعدين





KTARQIM  
advance

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KTARQIM

# Who We Are

Tarqim Advance Real Estate Development and Investment Company – Mining Sector

Tarqim Advance Real Estate Development and Investment Company is a Saudi-based firm specializing in mining, investment, and marketing. Since its establishment, and with Allah's grace, it has quickly attracted highly skilled leaders and seasoned professionals in the field. This enables the company to remain competitive, innovate continuously, and deliver top-tier mining, products, marketing, and financing solutions.

Tarqim Mining Sector is pleased to offer a wide range of technical services, including:

- Mineral exploration
- Geological study
- Project management
- Drilling (DD, RC, RAB)
- Land use surveying
- Mine design
- Production planning
- Surface mining works (removing the overburden, drilling, blasting, loading, transporting, and crushing)

We have the fleet and workforce with essential technical and managerial experts.

Tarqim Mining Sector has expertise in a wide variety of geological settings and deposit types. We always adhere to current best practices in health and safety and environmental management while ensuring that

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# Vision & Mission

To grow sustainably and become the premier and the leading company in mineral exploration, drilling, engineering and mining services in the Saudi Arabia market.

To reach the superior level in exploration, drilling, engineering and mining services and to be elevated by our customers as the best business partner.

To be a leader in innovation, service and quality.

To be one of the most admired and respected companies in our industry.

Tarqim Mining Sector to offer a full integrated exploration, drilling, engineering and mining services for the mining sector in an economical and professional manner and to develop and support every aspect of our business with the highest level of integrity remain dedicated to our clients as business partners.





## Our Goals

Tarqim Mining Sector are dedicated to maintaining complete client satisfaction by providing services with high quality and credibility. We prioritize understanding and fulfilling the aspirations and needs of our clients. As the company grows, we adapt to meet the individual requirements of both our customers and employees. Ultimately, our success is built upon the continuation of our commitment to quality.

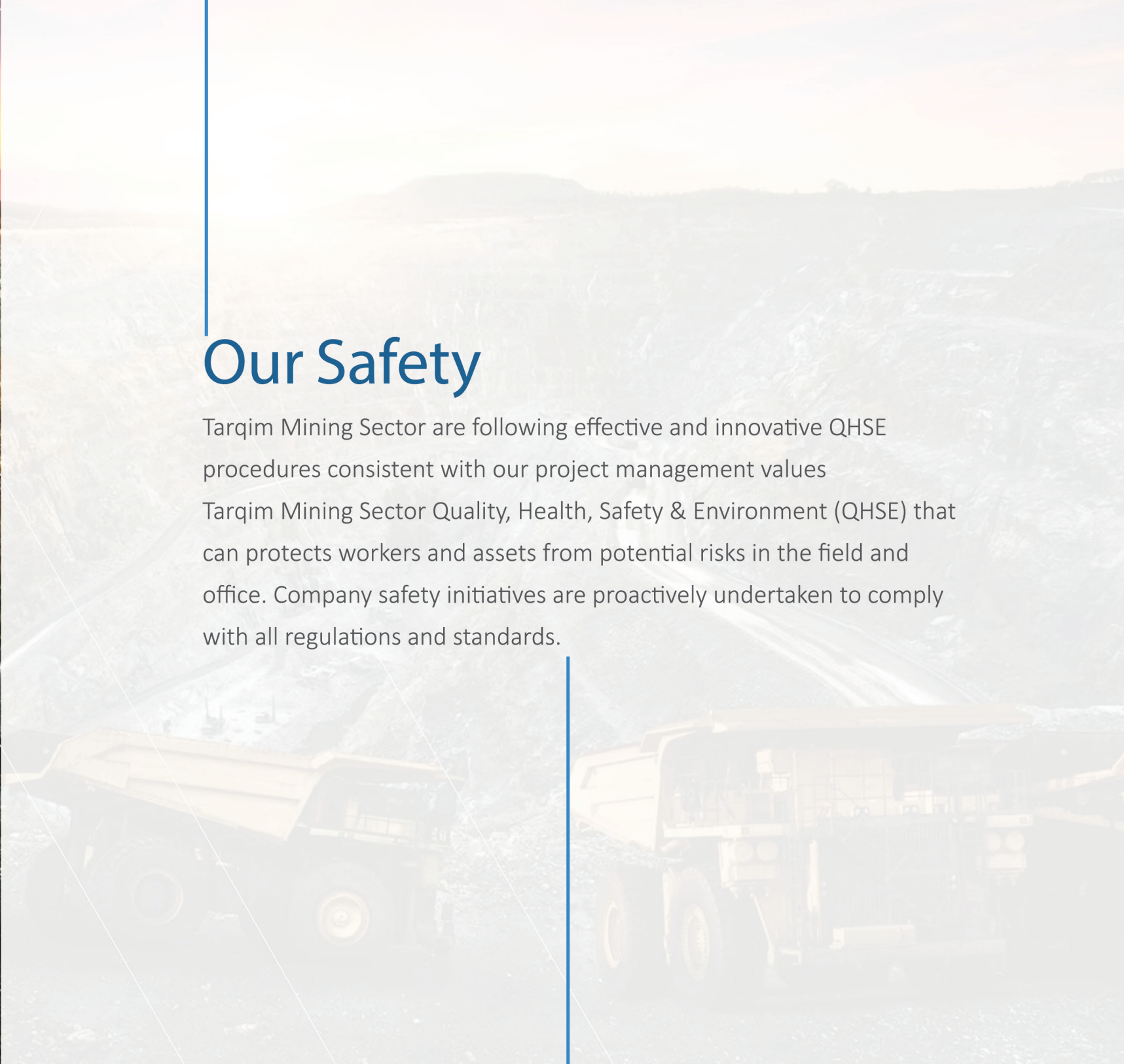




## Our Safety

Tarqim Mining Sector are following effective and innovative QHSE procedures consistent with our project management values

Tarqim Mining Sector Quality, Health, Safety & Environment (QHSE) that can protects workers and assets from potential risks in the field and office. Company safety initiatives are proactively undertaken to comply with all regulations and standards.





## Our team

Tarqim Mining Sector boast a team of highly experienced and talented experts who work across diverse professions. The team members are extensively trained, having gained valuable exposure in the corporate world as distinguished professionals.

We have stringent criteria for selecting individuals to join our team. Only those who successfully pass rigorous tests and interviews can become experts and be part of our team.

Our teams are confident in handling tasks of any complexity, regardless of the background. We have a well-balanced team of professionals who simplify all projects we undertake.

Each team is led by a highly qualified and seasoned senior content leader, ensuring thorough research on all content before submission to our clients.

Our team maintains a proactive accessibility and working relationship, guaranteeing our clients full-time attention whenever they require our assistance.

# Our Equipment

Tarqim Mining Sector owns a substantial fleet of heavy-duty equipment, specially designed for executing construction tasks, most frequently involving earthworks activities. Our fleet includes:

Heavy Machines: Specialized for various construction and excavation tasks.

Heavy Trucks: Utilized for transporting materials and equipment to and from sites.

Construction Equipment: A range of tools and machinery for building, excavating, and material handling.

Engineering Equipment: Advanced technology to ensure precision and efficiency in our projects.

Heavy Vehicles: Robust and reliable vehicles for on-site transportation and logistics.

Heavy Hydraulics: Powerful hydraulic systems for lifting, digging, and other demanding construction activities.

Our extensive and versatile equipment fleet ensures that we can handle a wide variety of construction and earthwork projects efficiently and effectively





# Our Service

## 1. Mineral Exploration

Tarqim Mining Sector offer a wide range of exploration services, reflecting our broad geological interests and the diverse expertise of our team. Our involvement spans from grassroots exploration through to the re-feasibility stage. Depending on the client's needs, our services can range from:

Simple Property Evaluation: Conducting initial assessments to determine the potential of a property.

Technical Report Preparation: Creating detailed reports that outline findings and recommendations.

Managing Entire Exploration Programs: Overseeing and executing comprehensive exploration projects from start to finish.

Our team's expertise and dedication ensure that we can handle projects of any scale and complexity, always meeting the specific requirements of our clients.

Tarqim  
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Landmark





# Geological Desk Studies

Geological desk studies form the cornerstone for initiating exploration work. These studies include:

Review of Available Geological Data:

Regional, local, and detailed studies.

Publications in scientific journals, research institutions, and industrial enterprises.

Satellite images to identify the nature of rocks and the topography of the area, along with regional structural geology.

Detailed Description of Rock Exposures:

Identifying the time of deposition and depositional environment of sedimentary deposits.

Collecting rock samples for petrographic and ore-microscope studies.

Geological Mapping:

Defining lithology, stratigraphy, and the nature of contacts between different rock units.

These studies are essential to form a comprehensive understanding of the geological characteristics of an area, which guides further exploration activities.





# Structural Studies

Conduct geological structure measurements including faults, folds, fractures, strike, dip, lineation, foliation, fold plunge and facing, fault displacement, and direction and offset value resulting from movement. Define the structural relationship between rock units and identify the structural control of mineralization.

These studies are critical for understanding geological features and their impact on mineralization, guiding effective exploration and extraction processes.

## Geochemical Studies

Our geochemical studies encompass the design and implementation of geochemical programs, which include the collection of various geochemical samples such as sediment, soil, panning, and rock chip samples, as well as trench samples.

We also conduct alteration mapping to identify concentrated mineral domains and define controls on mineralization. Additionally, we generate geochemical maps to determine the spatial distribution and zones of concentration of chemical elements in rocks.

These efforts are crucial for understanding the geochemical characteristics of an area, which aids in effective exploration and resource management.



# Core Logging and Data Management

Tarqim Mining Sector perform core geological logging and core structural and geotechnical logging in compliance with international industry standards. Our services also include sorting, managing, and validating all drilling data. This encompasses:

Collars

Downhole surveys

Core orientation

Geological logging

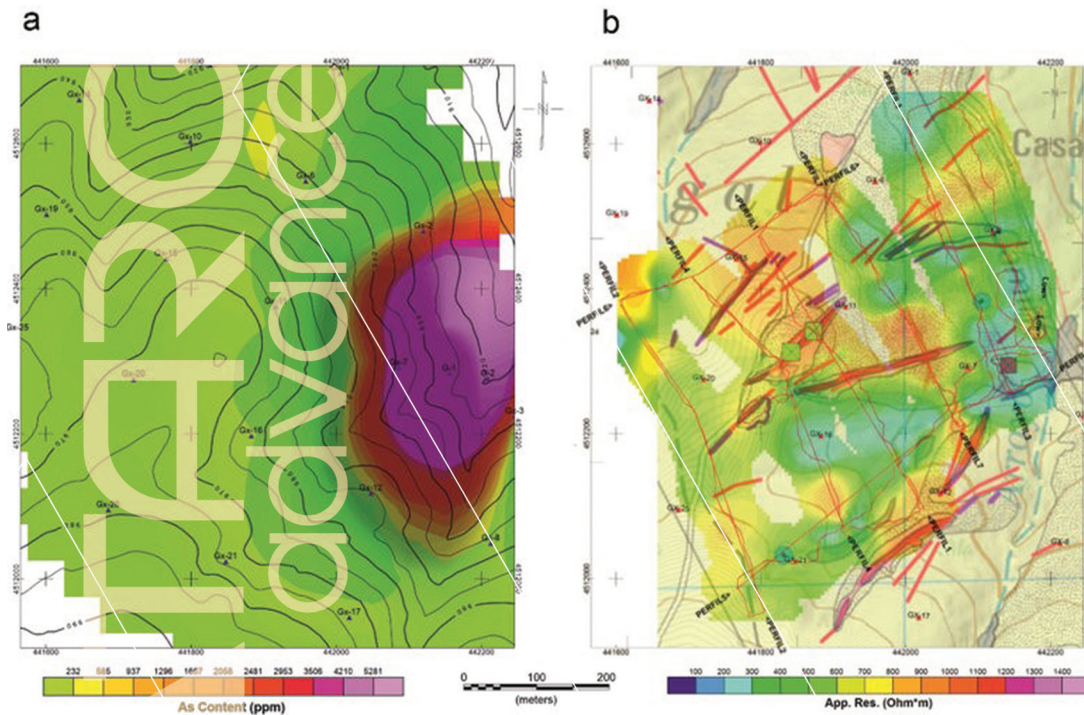
Geotechnical–structure logging

Photography

Specific gravity measurements

Sampling and assay results

These practices ensure the accuracy and reliability of data, which is essential for successful exploration and resource assessment.





## 2. MINING SERVICES

Tarqim Mining Sector continuously strive to lead the drilling and blasting business in Saudi Arabia by providing our customers with the most professional and cost-effective solutions. Our services include:

**Mining Operations:** We undertake complete or partial mining work in the mines and quarries of companies, using either our heavy equipment or the client's equipment.

**Equipment and Workforce Transfer:** We are ready to accept the transfer of guarantees for workers, quarry machinery, and heavy equipment, to be owned by True East mining company.



# Comprehensive Mining Services

Tarqim Mining Sector offers a full range of mining services for both existing and new mining projects (quarries and mines). Our goal is to provide the highest level of mining services based on scientific foundations and proven expertise, supporting the decision-making and strategic development of projects.

## Technical Assistance

Expertise and Technical Assistance: Tarqim for Mining boasts highly qualified expertise, enabling it to function as a technical assistant and provide consultations. These services ensure the smooth operation of work plans to meet production needs, including drilling, blasting, loading, transport, crushing, and waste management.







# Mining Plan

## Mine Planning and Design

Mine planning is a critical component of the world's best mining practices. It provides a road map to achieve optimum production outputs, which maximizes cost efficiency and overall performance. Efficient mine planning is essential for integrated mining operations, ensuring that resources are utilized effectively and safely.

Tarqim Mining Sector possesses extensive expertise in producing detailed mine designs and production plans. Our goal is to drive sound investment decisions for both potential mining projects and active mines. Our team specializes in creating comprehensive mine and quarry designs that take into account several key factors, including:

**Geological Nature of the Resource:** Understanding the geological characteristics of the resource to ensure efficient and effective extraction.

**Development Costs:** Analyzing and managing costs associated with the development of the mine or quarry to ensure financial viability.

**Environmental Impact:** Assessing and mitigating the environmental impact of mining activities to comply with regulations and promote sustainability.

**Safety Regulations:** Adhering to all safety regulations to ensure the well-being of workers and the surrounding community.

**Technical Services and Tools:** Our in-house technical services enable us to provide fully integrated mine and quarry design services. We utilize a variety of industry-leading tools, including:

**Geovia Surpac:** A software used for geological modeling, mine planning, and resource estimation.

**MineSched:** A scheduling software that optimizes the timing and sequence of mining activities to improve productivity and efficiency.





# Mine/Quarry Design

We offer comprehensive design services for mines and quarries, covering several critical aspects:

**Access and Services Designs:** Planning and designing access routes and essential services for the mine/quarry, ensuring efficient and safe operations.

**Stockpiles and Waste Dumps Designs:** Creating designs for stockpiles and waste dumps to manage materials effectively, while minimizing environmental impact.

**Drill and Blast Design:** Developing detailed plans for drilling and blasting operations, optimizing the extraction process while ensuring safety and precision.

**Waste/Ore Definition:** Accurately defining waste and ore materials to maximize resource utilization and minimize waste.

**Fleet Requirements Determination:** Assessing and determining the fleet requirements for equipment and vehicles needed to support mining and quarrying operations efficiently.

These design services are essential for the successful planning and execution of mining and quarrying projects, ensuring that all aspects are thoroughly considered and optimized.

**Opening Details and Developments:** Comprehensive planning and detailing for the opening of mines and quarries, ensuring all aspects are covered for smooth operations.



# Detailed Mine Production Plans and Scheduling

Creating detailed production plans and schedules to optimize the extraction process and meet production targets.

Long-term & Short-term Mining Plans: Developing both long-term and short-term mining plans to ensure sustained and efficient operations.

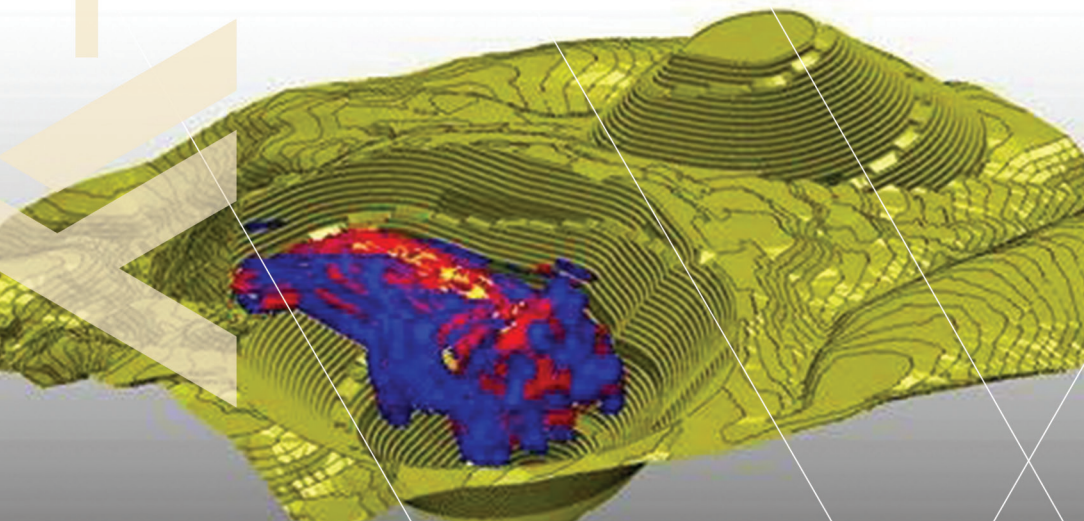
Shift-by-Shift Scheduling: Detailed scheduling of all activities on a shift-by-shift basis to enhance productivity and coordination.

3D Visualization Models: Utilizing advanced 3D visualization models to provide a clear and accurate representation of the mine/quarry layout and operations.

Capital and Operating Cost Estimates: Providing comprehensive estimates for both capital and operating costs, ensuring financial planning and budgeting are accurate and reliable.

These elements are crucial for the effective and efficient management of mining and quarrying projects, ensuring that all operations are well-planned, executed, and

By leveraging these tools and our expertise, we ensure that your mining projects are planned and executed with precision, leading to successful and profitable operations





# Management of Mining Works

Tarqim Mining Sector is fully capable of managing all mining operations, such as removing the overburden, drilling, blasting, loading, transporting, and crushing. The company provides the necessary equipment and staff to fulfill daily, monthly, and annually production needs of raw materials.





# Drilling, Blasting, and Rock Removal

We are proficient in all aspects of drilling, blasting, and the safe removal of rocks. Blasting is crucial for removing unwanted materials that could contaminate the raw material. Heavy equipment like bulldozers, loaders, and dumpers are used to clear and transport these materials to designated waste areas, ensuring smooth quarry operations. This stage involves precise drilling and blasting, followed by compliance with safety standards to avoid vibratory effects on the surrounding environment.

Excavation, Transportation, and Demolition: We offer services related to the excavation and transportation of materials, utilizing heavy-duty equipment.

Drilling for Exploration and Mining: We are equipped to handle drilling for exploration projects and mining operations with advanced techniques and equipment







# Road and Tunnel Construction

Capable of undertaking road and tunnel construction projects, leveraging our expertise in drilling and rock cutting.

Mining Plan, Development, and Production Scheduling: We develop comprehensive mining plans and production schedules based on ore thickness, height, and quality. Key considerations include:

- Achieving required quantity and quality

- Developing and maintaining quarries and benches

- Removing non-usable material in parallel with extraction operations

- Implementing short-term (weekly and monthly) and long-term (annual) schedules

- Ensuring daily, weekly, and monthly extraction aligns with the planned quantity, quality, and quarry shape

This approach ensures efficient and organized mining operations.



# Loading and Transportation

The loading and transportation process involves the following steps:

**Loading Ores:** Dumpers are loaded with ores from the quarry's facades by loaders that are suitable for the nature of the work.

**Transportation:** The loaded dumpers transport the ores to the designated unloading area.

The number of loaders and dumpers is determined based on the capacity of the production breaker and the distance between the crusher and the quarry interfaces. Ideally, there should be three dumpers for every loader to avoid time wastage, which in turn positively impacts productivity and cost efficiency.







# Contract Crushing and Screening Services

Tarqim Mining Sector supplies key contract crushing and screening services for various extractive operators, including mines, quarries, cement plants, gold plants, and more. We handle different raw materials, such as limestone, dolomite, phosphate, and granite.

## Crushing Services:

Primary, secondary, tertiary, and fine grinding applications in quarrying, mining, and recycling industries.

A wide range of crushers: jaw crushers, cone crushers, impact crushers, and VSI crushers.

Crushers fitted with various screen media: inclined, horizontal, and multi-slope.

Washing or dry screens, depending on your application.



# Capabilities

**Custom Solutions:** Depending on the job and specific outputs, , Tarqim Mining Sector offers tailored crushing and screening services to meet any project scope.

**Versatility:** We can handle diverse projects across any location in Saudi Arabia.

**Dependable Service:** Our field–proven rock crushing solutions ensure years of reliable and profitable service.



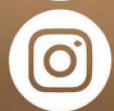

By providing comprehensive and adaptable crushing and screening services, Tarqim Mining Sector meets the demands of various industries with efficiency and precision.







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**Serving you...**  
**Our goal**

**KETEROIM**





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