

2019 Edition





INTRODUCTION

BEM Story

BEM Technology Group as an international mining company and with the main purpose of studying and expanding science borders in the field of mining and geophysics was founded in 2011 under the name of NGS Co. In 2016 it has changed its goal to focus on BEM technology, thus, its name has been changed to BEM TECH. BEM company tries to invent the best methods and devices in order to answer the industrial needs.

This company located in Muscat, Oman, using its own unique and efficient method, supplies, produces and sells mining exploration products and besides this, it invests in valuable mines and projects. Our company participates in great international projects and cooperates with well-known mining and related industry roll players, in trading and consultation activities.

SERVICES





The focus of BEM Technology Group products, services and activities are on 3 main parts:

- 1. Exploration, Geophysics and Mining**
- 2. Investment & Trading**
- 3. Consultation & Mentorship**

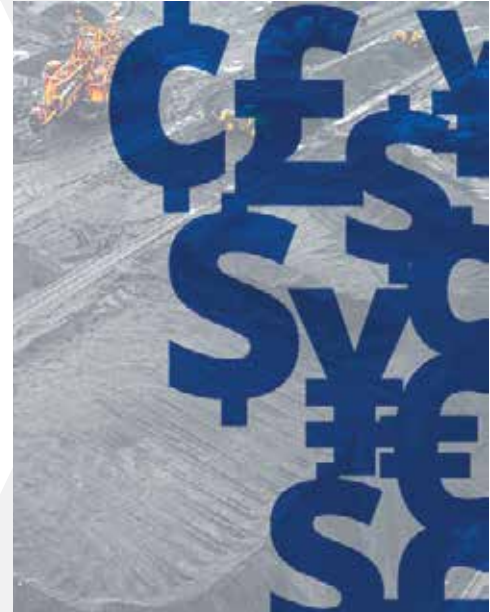


01 | **Exploration, Geophysics and Mining**

Studying and performing analysis on different aspects of geophysical devices and finding the optimum approach for solving mining and related industry problems, filling its gaps and achieving the highest efficiency in exploration, is what BEM Tech is trying to reach. With this point of view, it is working on various issues like EM, Magneto-Metry CSEM and Airborne, Footborne and marine EM devices, exploratory tools working based on BEM technology besides modern methods which can scientifically optimize costs and time in geophysical exploration and monitoring industry.

02 | Investment & Trading

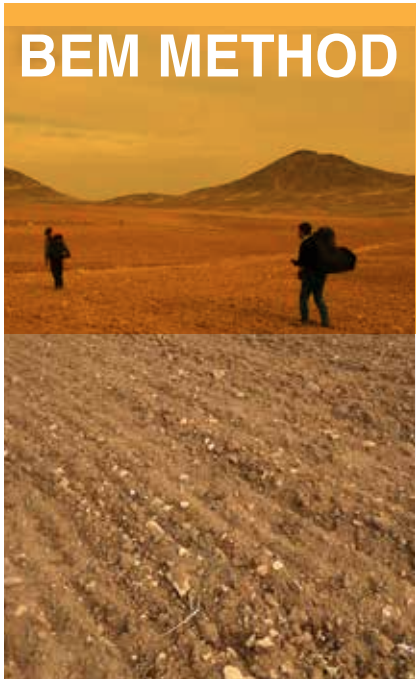
BEM Technology group observes the market in detail and analyzes its competitors to figure out empty points and needs. On the other hand, as well as researching about profitable opportunities, BEM knows how to build valuable networks in order to follow its plans in this sector. Thus, it is interested to join great brands and reputable companies to create wealth.



03 | Consultation & Mentorship

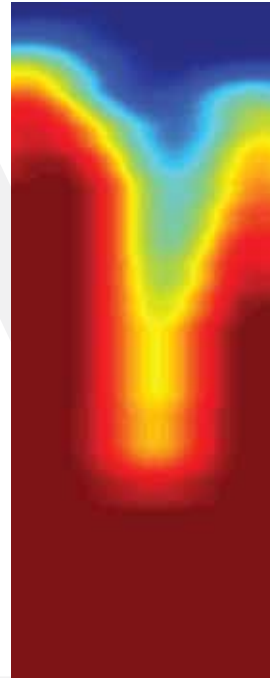
BEM Tech, having technical and scientific experience in mining and geophysics field and with the knowledge of inventing methods and goods, is a trustworthy consultant for guiding new borne businesses, startups, companies and mining individual activists.

BEM METHOD



BEM innovative technology is a useful approach to reach data about subsurface layers more accurately in order to recognize the structure and characteristics better. This technique is a unique method of broadband electromagnetic frequency domain geophysical method that analyzes the reaction of subsurface layers to the electromagnetic wave. BEM method can produce the results of 3 methods: (IP) Induced Polarization, Magnetometry and EM and on the other hand, it is capable of matching with other EM devices. This technique can be used in water exploration, metallic and nonmetallic exploration, fault detection and identifying any anomaly that exists in subsurface in both shallow and deep parts, all around the world. With the aim of this approach it is possible to conduct researches in all metallic and non-metallic areas.

BEM methods and devices can facilitate the earth studies: they are portable and capable of use in difficult and dangerous situations like hard to reach places, rough topographies and so on. For instance, BEM airborne device is a valuable tool in cases which there isn't the flight possibility for airplanes or helicopters and human is not able to visit a specific region by his own and so he can control it by software. The important BEM tool property that differs it from other devices, is dielectric coefficient calculation as well as possibility of material type estimation in some layers, based on accurate analytical solution of wave equation. Alongside mentioned points, BEM technology can use wave packages based on the type of study area and target. The frequencies are in the range of 100 Hz to 30 kHz. BEM device is a Broad band Frequency Domain Electromagnetic Device (BBDEM) which has a transmitter and a receiver and it is also able to work in time domain.





RESEARCH & DEVELOPMENT

BEM R&D

BEM Research and Development department tries hard to improve the activity level, develop the industry and optimize methods and devices through studying mining and related fields in detail. For this reason our experts invent and test new approaches and tools based on modern technology.

Targeting this goal, BEM R&D team with various expertise of its members, hopes to cover all aspects of exploration mining and geophysics with the aim of unique methods and devices.

Therefore, this department designs and conducts different practical projects in the field of telecommunications, footborne, airborne and marine geophysics, energy consumption optimization, devising new methods of non-destructive measurement and etc.



BEM Devices Overview

BEM Technology Group with the power of its experts especially R&D specialists focuses its efforts on studying, analyzing, designing, inventing, building and developing various equipment in geophysics & mineral exploration field.

Accordingly, our company is working on devices like **GPR** (Ground Penetrating Radar), **MT** (Magnetotellurics), **CSEM** (Controlled Source Electromagnetic) and etc. Today and besides our usual activities we are working on BEM devices and technology with the usage of oil and gas exploration.





**BEM EM Time and
Frequency Domain**



**BEM Airborne
Magnetometry**



BEM Marine EM



BEM Deep GPR



BEM Airborne EM



BEM CSEM



SAFETY AND ENVIRONMENT

BEM company in all steps of its activities pays attention to environmental aspects and tries to develop technology in a way that keep environment safe. We know the importance of environment for humans and other creatures thus, our goal is using new and modern technology to reduce the harms for nature. On the other hand, BEM members' safety in all stages of the work is the first priority of this group. Therefore, safety tips and points are strictly adhered in all steps of project planning and implementation.

BEM Highlight Activities

BEM Tech according to its mission and vision, has performed various kinds of projects with the aim of its own methods and devices. For instance, design and construction of SID site, receiver of VLF with sensitivity of Nano Volt and electronic circuits with very low noise to amplify very low frequency wave are performed by our experts in BEM Company. We invent and manufacture VLF RADAR for sun activity observation and also transmitter and receiver of VLF waves for geophysical application.

The other fields of BEM activities are focused on site investigation using microgravity, exploration of Magnetite, barite and Hematite ore using Magnetometry and bitumen investigation based on geo-electric methods. Based on BEM technology we accomplished electromagnetic survey in order to determine the location of drilling for water wells and to detect fault, fraction and gap.

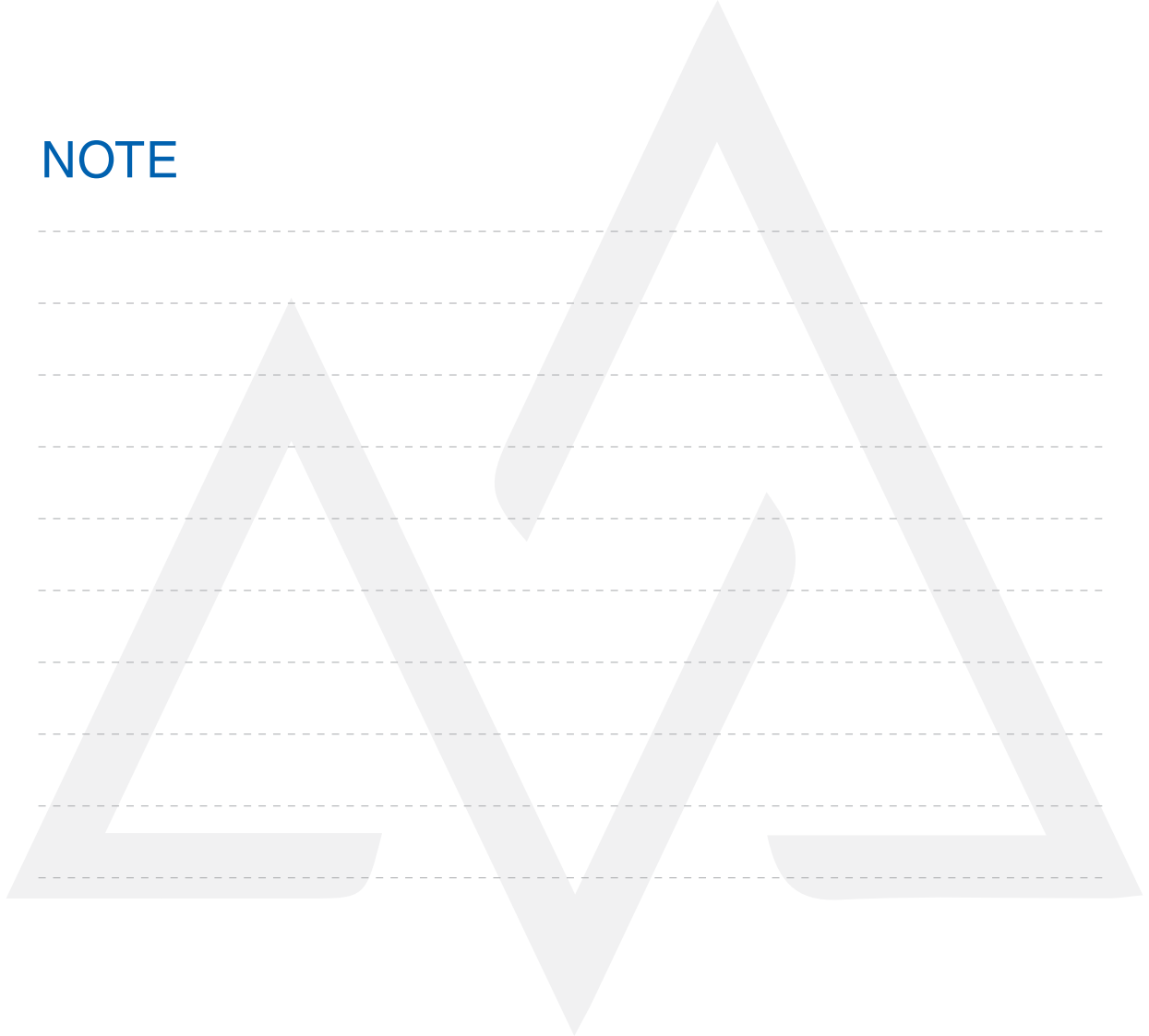
Working on determination of water level and performing some projects in gold and copper exploration for different types of deposit (porphyry type, vein type and placer deposit Type) using BEM device, are other parts of our operations. BEM experts have investigated on EM device and wave in earth science and environment; patents, completion and testing of the BEM device, successful test of BEM device on nonconductive dike and Magnetite ore are the outputs of these attempts.

Performing projects like 1and2D geo-electric studies (resistivity) for detection of subsurface structures, water exploration in clay-salty area and identification of chalcopyrite veins, shapes other section of BEM activities.

Beside these, projects consist of fault, fraction, gap, cavity and karst detection, chromite exploration and coal exploration in area with metallic mineralization are other highlight points of BEM work experience. With the aid of unique BEM device, reserve estimation of coal, identification of gold veins and determination of clay depth and clay interbed in playa are accomplished in this company.

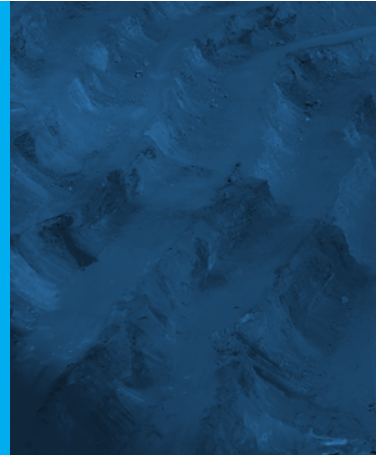
Chromite exploration and separation of chromite, donate and harzburgite using BEM device for Al-Awasem Oman and also for Gulf Mining Oman are other examples of BEM Technology Group projects. In Ödemis, Turkey, BEM implemented the project of Gold exploration and separation alongside Siliceous shale formation using its own device. Considering our method, BEM R&D specialists study and work on different valuable projects in various areas such as telecommunications, footborne, airborne and marine geophysics, energy consumption optimization, devising new methods of non-destructive measurement and etc.

NOTE





broadband EM smart technology



Please don't hesitate to contact us if you have any inquiries. Keep in Touch with Us through the Following Contact Addresses.

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