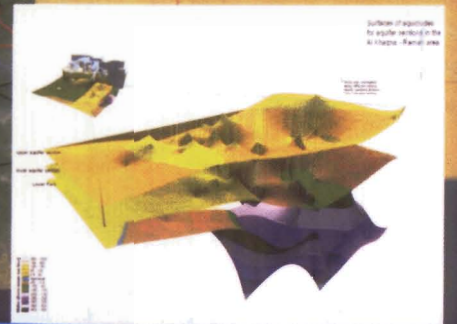




مكتب الاستشار الوطني
NATIONAL CONSULTING BUREAU

Consultation Services



Geological

Geophysical

Environmental

In Collaboration with
EOGGE

**Egyptian Office for Geological, Geophysical
and Environmental Consultation**



INTRODUCTION

Geological, geophysical and environmental applications constitute one of the pillars of scientific and technologic progress and improvement of life standard in any country, which aims at growing and evolving toward better achievements. These applications have varying scientific and technical contributions in numerous fields, such as exploration for mineral ores and petroleum resources, groundwater occurrences, engineering delineation of urban settlements and environmental assessment of natural hazards. There is no agricultural project without prospection for groundwater necessary for land reclamation, particularly in the desert areas far from river courses. There is no housing project without investigation of the geotechnical characteristics of soils and bedrocks below these soils, including the geodynamical variables of the ground over which the settlements will be built-up. Besides, there is no industrial project without use of petroleum or natural gas to activate the machines, instruments and other equipments necessary for the good performance of the project. It is also vital to evaluate the environmental effects on the lives of those who are involved and affected by it, hoping a safe, adequate and friendly environment for people.

For all these reasons or part of them, the presence of specialized offices or scientific centers dedicated to undertake studies or to present advices is a must to any project in different topics by utilizing geological, geophysical and environmental methods, as part of the feasibility studies necessary for costs optimization.

For this, National Consulting Bureau and the Egyptian Office for Geological, Geophysical and Environmental Consultations (EOGGEC) is glad to present their scientific and technical services in the above mentioned applied disciplines, related to different agricultural, industrial, urban, touristic and developmental activities to the governmental institutions, private companies, centers, offices and individuals in the Gulf countries through a team of professors, scientists and consultants utilize the most up to date and precise scientific equipments for data acquisition, processing and interpretation, with the help of the most advanced techniques and computer software to comply with the needs of their respected clients.

Scope of our consultation work

- 1. Ore Prospection and Mineral Projects:** We use of different geological and geophysical methods to determine the locations, quantities and mineral concentrations of useful economic ores as precious metals, industrial minerals, ornamental stones and building materials.
- 2. Hydrocarbon Exploration and Petroleum Services:** It deals with the use of deep geological and geophysical methods to delineate the sedimentary sequences (source, reservoir and cap rocks), maturation cycle (hydrocarbon generation, migration and accumulation) and entrapping style (stratigraphic, structural and miscellaneous), as well as defining the prospective parts for drilling wells.
- 3. Groundwater Prospection and Land Reclamation:** It comprises the use of shallow geological and geophysical methods to locate the groundwater reservoirs, together with the determination of their different properties (as depth, extension, thickness and salinity), the locations of sites for drilling wells, the establishment of proper designs and defining the appropriate pumping rate for water production.
- 4. Archeological Exploration and Hazard Mitigation:** It exhibit the use of shallow geological and geophysical methods to detect the locations, depths, dimensions and shapes of the features containing and recent monuments and mitigate their hazards.
- 5. Engineering Geophysics and Sites Testing:** It includes the use of near-surface geological and geophysical methods to determine the sedimentary rock sequences and the seismic velocities, elastic indices and geotechnical parameters, and interpreting their inferences for soil sediments and bed rocks, as well as the related seismic hazard, acceleration, attenuation and amplification.



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6. Environmental Assessment and Social Hazards: It involves the use of precise environmental devices to define the sources of environmental pollution and the determination of their concentrations implied in air, water and soil related to groundwater, radioactivity, gases emanated from decomposition, oil and gas processes, power and petrochemical industries .

For full details on our capabilities and/or request for proposal for a consultation / technical advice please contact us through our offices below:-

Kuwait Office :

Tel. : +965 22464794 / 22416273

Fax : +965 22464796

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Fax : +971 2 6653303

E-mail : natconsl@emirates.net.ae

Cairo Office :

Tel. : +202 24010783 / 24010746

Fax : +202 22629397

Email: wahibncb@link.net

PART OF INSTRUMENTS UTILIZED



CG-5 AUTOGRAV GRAVIMETER



**LACOSTEC & ROMBERG
GRAVIMETER (Model D)**



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GESIUM GNOMETER
(Model G-858)



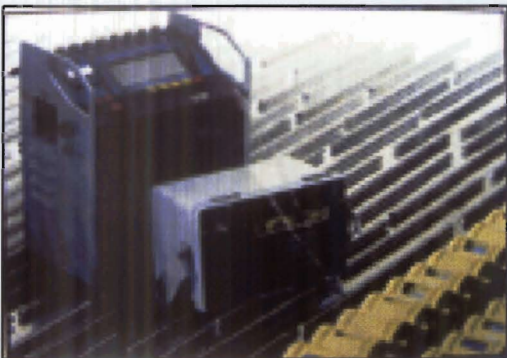
GALILEO SEISMOGRAPH
(Model DIFP)



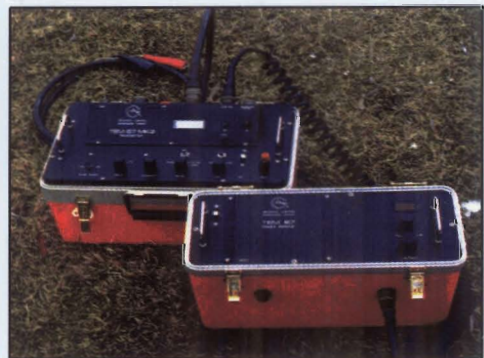
SIR GROUND PENETRATING RADAR
(Model GSSI DC-2)



THERMAL CONDUCTIVITY METER
(Model PTCMI)



**VIP TRANSMITTER & ELREC
RECEIVER** (Model 4000 & 6)



**GEONIX ELECTROMAGNETIC
SYSTEM** (Model TEM 67)



GAS CHROMATOGRAPH SYSTEM
(Model AGILENT 6890)



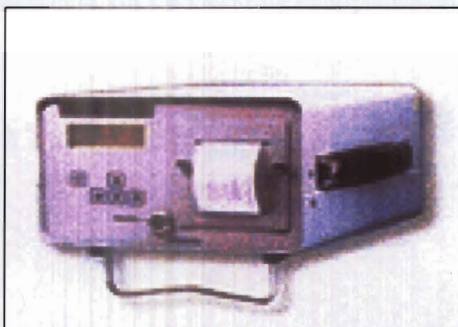
Hyper - Purre Germanium Spectrometer
(Model Gx 3018)



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- 11-1994-1995 : Geotechnical evaluation for the stretch of Wadi Watir dams in Eastern Sinai, by utilizing geophysical methods (for the institute for development of water resources).
- 12-1996-1997 : Manganese prospection in the area of Abu Ramad in the Eastern Desert of Egypt, by using magnetic method (for the National Authority for Remote Sensing).
- 13-1998-1999 : Oil and gas exploration in the area of Qarun concession in the northern Western Desert, by using seismic reflection method (for Qarun Petroleum Company, Egypt).
- 14-2000-2001 : Sulphide prospection in the area of Hamash gold mine in the southern Eastern Desert, by using geoelectrical and magnetic methods (for the U.S.A. Crest Company).
- 15-2001-2002 : Petroleum assessment in Wadi El-Natrun area in the northern Western Desert, by using geological and geophysical tools (for the Academy of Scientific Research).
- 16-2001-2002 : Dlineation of the geotechnical characteristics, water seepages and shallow utilities under El-Nasr road bridge (for the Arab Contractors)
- 17-2002-2003 : A geophysical consultant for complementary geotechnical investigations at the site of pump station (PS2) - Branch 3 , Toshka , Southern Egypt (for Levingston Civil Engineering Company).
- 18-2003-2004 : Shallow geophysical tools to delineate the linear structures cutting the concrete and pile damedes of El Naqb – Taba road , Eastern Sinai (for the Arab Contractors Company).
- 19-2004-2005 : Geophysical methods for exploring the buried utilities and classifying the sedimentary section of selected locations on Somed Petroleum line,Cairo–Alexandria desert road, (for Summed petroleum Company).
- 20-2005-2006 : Hydrogeological evaluation for Beni–Suef cooperative farm at Samsata road, using vertical electrical sounding and hydrochemical analysis (for the private reclamation sector).
- 21-2006-2007 : Water exploration for drilling water wells at the Blue Gulf Touristic Village, Ras Sudr, utilizing resistivity profiling and hydrochemical investigation (for the private touristic sector).
- 22-2007-2008 : Geoelectrical investigation for evaluating the ground water aquifers of the Ammonia factory, Ain Sukhna area, Northern Gulf of Suez of Egypt (for the Egyptian Basic chemical Industries Corporation).
- 23-2007-2008 : Seismic and gravity interpretations for testing the stratigraphy and structures of El-Dabaa power plant shallow section, northern Western Desert of Egypt (for the Egyptian Power Plants Authority).
- 24-2008- : Geoelectrical investigation for evaluating the ground water aquifers of the Ammonia factory, Ain Sukhna area, Northern Gulf of Suez of Egypt (for the Egyptian Fertilizers Company).

During the previous period: A lot of consultations concerning the localization of ground water wells of reclaimed lands for owners, and geotechnical studies of houses in the populated and urban areas for citizens, as well as executing environmental impact assessment for them.



RADON MEASUREMENTS SYSTEM



**ATOMIC ABSORPTION SYSTEM
(MODEL 3100)**