



**Diar**  
Consulting Group

# CO. PORT FOLIO

**OIL & GAS AND  
INDUSTRIAL,  
BUILDINGS AND  
INFRASTRUCTURE**

Highlighting Company  
Engineering Disciplines,  
Capabilities,  
Our Projects and  
Previous  
Experience

We provide Consultant  
& Engineering Services primarily  
for the infrastructure, buildings  
and Oil & Gas  
projects located in  
Egypt and elsewhere in  
The MENA Region.



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Diar Consulting Group is a Consultant Group Established in January 2009 to provide Consultant & Engineering Services primarily for the infrastructure, buildings, and Oil & Gas projects located in Egypt and elsewhere in the Middle East and Africa.

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# About Us

Diar Consulting Group is a Consultant Group Established in January 2009 to provide Consultant & Engineering Services primarily for the infrastructure, buildings, and Oil & Gas projects located in Egypt and elsewhere in the Middle East and Africa.



**While maintaining a Relentless focus on safety and an uncompromising standard of quality. Regardless of a project's size or location, DIAR delivers Consistent, superior results, which our customers have come to expect. We are confident in our capabilities, our talented workforce, and the Long-term Growth of the markets we serve.**

Today we continue our legacy of excellence with a unique business model that offers a more complete supply chain solution to our customers.

With extensive capabilities that serve our diverse end markets, we can work on a project from concept to completion and beyond. Regardless of a project's size or location, DIAR deliver consistent, superior results, which our customers have come to expect.

## Our Mission

To be the leading provider of innovative and sustainable consulting and engineering solutions for infrastructure, buildings, Oil & Gas, Industrial and Mining projects in the MENA Region, driving economic Growth and Development.

## Our Vision

To shape the future of infrastructure, buildings, and Oil & Gas, Industrial, Mining projects through our innovative solutions and unwavering dedication to excellence.



# Why Diar... ?

At Diar we partner with our clients to **provide superior quality solutions that deliver – or Exceed - the results** they are seeking and give them peace of mind that their operations are running smoothly.

## Our Core Values

At DIAR, we're guided by [8] Core Values that fuel our success and shape our Interactions with each other and our clients.

We have a reputation for innovation and a **proven track record for success, having completed numerous major projects**, both national and international, on spec, on time and on budget.



OUR  
CORE VALUES



## Meet Our Board of Directors

### Our Team Culture

Every day we work to maintain the highest level of our personnel's competence through regular training, organizational tests and the implementation of proven human resource management methods.

The members of our team have gained their experience while working on many projects and designing solutions for **international corporations as leaders in their industries.**

# Meet Our Board of Directors



## HANY NABIL

**MANAGING DIRECTOR,  
PH.D, M.SC**

The Managing Director of Diar (The leading Consultant Engineering firm servicing primarily the Infrastructure, buildings and oil & gas sectors in the MEA region). Since 2011



### Eng. Hany Nabil

- WorleyParsons
- Dar Al-Handasah-Dar
- (Hill International) American construction consulting firm

Through his extensive work experience, he has acquired management and design expertise, as well as a solid understanding, practical and flexible approach in conforming to both local and international codes and standards (IEC, EN, BS, IEE, NFPA, API, IEEE, ICAO, etc....).



Hany Nabil holds a Ph.D. in Electrical Engineering from Boston University, USA



A Master's degree and a Bachelor's degree in Electrical Engineering from Ain Shams University, Egypt.



DBA Degree from BSS university Swizerland



## OSAMA FAWZY

**OPERATION MANAGEMENT  
DIRECTOR ( UAE )**

30 years of experience (QHSE/ Operations and General Manager) , General management and Operations management



## MAHMOUD NABIL

**ENGINEERING DIRECTOR,  
PH.D, M.SC**

Mr Mahmoud is an Engineering Director with experience spanning 18 years in the design and management engineering sector



### Eng. Mahmoud Nabil

- WorleyParsons
- El sewedy Electric Transmission and Distribution (EETD)
- (Hill International) American construction consulting firm

He has possessing management skills and design obtained during his employment in one of the top international engineering design firms.



Mahmoud Nabil holds a Ph.D. in Communication and Electronics from Boston University, USA



A Master's degree in Communication and Electronics from Ain Shams University, Egypt.



Consultant at the Egyptian Engineers Syndicate in Communication and Electronics Field.

# Meet Our Board of Directors



**SAMIR ANWAR**

**I&C DIRECTOR**

Engineering design (Preliminary/conceptual, FEED or Detailed Design) for Instrumentation & Control Systems (PLC, F&G, DCS, SCADA, ESD) for Offshore/ Onshore OIL&GAS facilities, refineries, and oil & gas processing plants. Also, large utilities and mega infrastructure projects including Water and Wastewater pumping stations, power plants and ports marine projects, and associated Industrial and services buildings.



**AHMED BAKR**

**MINING SPECIALIST**

Eng. Ahmed More than 30 (Thirty) years of experience in the field of Exploration, Production, Testing of phosphate mining (open cast and underground tunnel's production) and ROM (Run of Mine). Performing my duties in compliance with International Codes, Standards and common engineering practice. Coaching talents, review and analysing data / info to propose complete technical solutions and alternatives including 2 Years at EMRA (Egyptian Mineral Resources Association)



**GAMAL DAWOOD**

**ELECTRICAL DIRECTOR**

Thirty Eight years of experience: Six of them in the operation, maintenance, and construction of electrical instrumentation systems equipment the industrial, military, and domestic fields, and Thirty-Two years in the field of Engineering, Engineering Management, Procurement, Construction, Installations, Commissioning, and Operation of the Oil and Gas fields/plants (upstream &



**TAREK ADLY**

**HSE DIRECTOR**

Tarek has over 45 years of experience in Oil and Gas, Plastic, and Detergents Industries. He has worked extensively in the areas of water treatment, chemical laboratories, Corrosion Management, safety, fire prevention, environment protection, security, food, and industrial hygiene, risk assessment and management, training, and auditing.



**TAREK AKL**

**PROCESS DIRECTOR**

Tarek has experience in Project Management and Engineering Management, also he has experience in procurement management, quality assurance, HSE management, project control, interface management, proposal management, Risk Management, loss privation and overall construction management.



**HASSAN MOHAMED**

**MECHANICAL DIRECTOR**

(45) years' experience in the design and project management of Oil/Gas, Refineries, Petrochemical and Power plant projects. Highly experienced in the areas of Mechanical Installation, Pre-Commissioning and Commissioning of Oil/Gas Refineries, and Petrochemical projects Responsible for overall management and direction of the Company's operations in Saudi Arabia. Control and direction of Project Management, Engineering and Technical Support Services.



**MAHMOUD SALAMA**

**MBA, PMP PROJECT MANAGER**

more than 20 years experience in Major Infrastructure and Development Projects Budgets up to \$2.1BN | Oversaw Key Projects, Including Doha Port Redevelopment and Khalifa Avenue, Enhancing Operational Efficiencies and Compliance with International Standards



**MOHAMED AZZOUNY**

**CIVIL DIRECTOR**

More Than 20 Years of Experience in Civil Engineering Structure Division



**BASEM SANAD**

**BUILDINGS AND INFRASTRUCTURE DIRECTOR**

Bassem has over 18 years experience in the MEP experiences in multi-skills projects (UAE & Qatar & Egypt)



**MOHAMED OSAMA**

**PROJECT CONTROL**

He has extensive experience by working on many projects inside and outside Egypt



**MOHAMED FAROUK**

**ARCHITECTURE DIRECTOR**

Over 10 years of overall experience Designing, Developing Concept & Construction drawings. Extensive experience in designing and managing construction activities



**AHMED KHAIRY**

**PIPING SECTION HEAD**

Total 15 years work experience in industrial sectors, Power Plants, water desalination and Gas separation with multinational EPCM companies



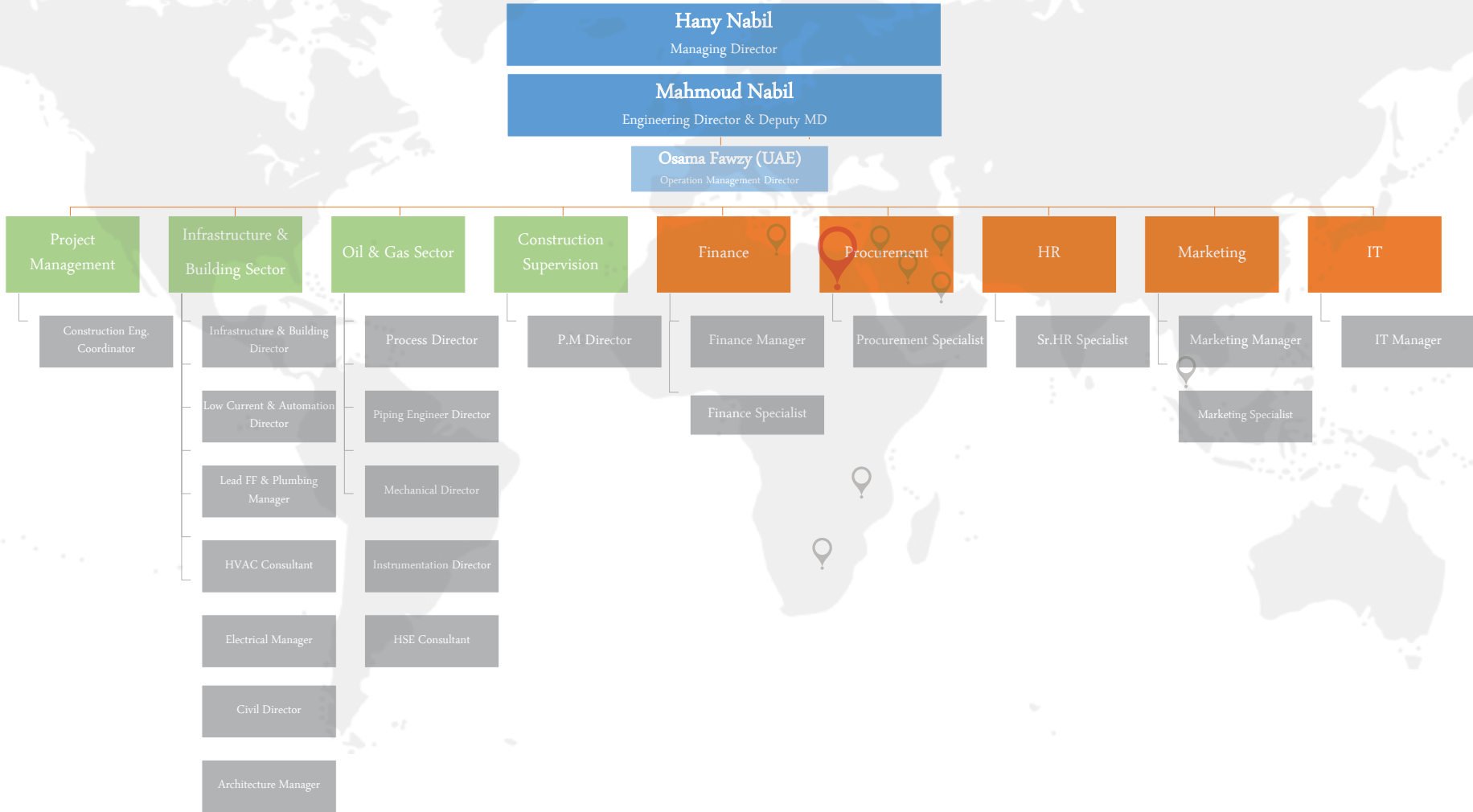
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Making  
your Vision  
become a **Reality**  
**is our Specialty**



# Company **ORG** Chart

Company Organization Chart Infrastructure & Buildings Engineering Sector



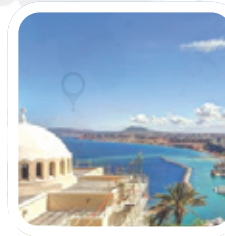
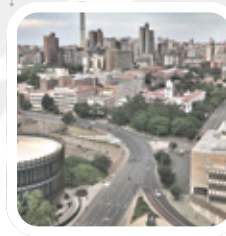
# Company **ORG** Chart

Company Organization Chart Our Branches and Offices in the MENA Region

**Hany Nabil**  
Managing Director

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**Mahmoud Nabil**  
Engineering Director & Deputy MD



West Africa

**Mohamed Hassan**  
Business Development Manager

Burkina Faso

**Bassirou Koussoub**  
Director

**Issa karambir**  
Business Development Manager

UAE

**Osama Fawzy (UAE)**  
Operation Management Director

Head Office (Egypt)

**Maged Yehai**  
Business Development Manager

**Ahmed Bakri**  
Proposal Engineer

Libya

**Ibrahim El-Regoubi (Lybia)**  
Director

**Hassan El-Hawwary**  
Business Development Manager

South Africa

**Eyad EL-Tahtawy**  
Business Development Manager

Algeria

**Essam Amjad Rezaiguia**  
Business Development Manager

Singapore

**Ahmed Samir**  
Business Development Manager

Diar Consulting Group

## **Business Fields**

**Infrastructure &  
Buildings**

**Industrial and  
Oil & Gas**



# Business Fields

DIAR services including **Engineering, procurement, and construction** to meet our client satisfaction with **high quality and minimum cost**. DIAR believes that our quality is the main target for our team to be a competitive company in the world.



CONSULTING



EPC CONTRACTS



PMC MANAGEMENT

# Engineering Disciplines

Diar has a diverse range of engineering fields. Having expertise in those engineering Various fields can provide a comprehensive solution for various projects and industries.

## OIL & GAS



PROCESS



PIPING



INSTRUMENTATION



PROCESS SAFETY STUDIES (HAZOP, HAZID, SIL, PSM, GAP ANALYSIS, ETC.)



ELECTRICAL



MECHANICAL



CIVIL & STRUCTURE

## BUILDINGS



ARCHITECTURE



INTERIOR DESIGN



LANDSCAPE



CIVIL



MEP



HSE

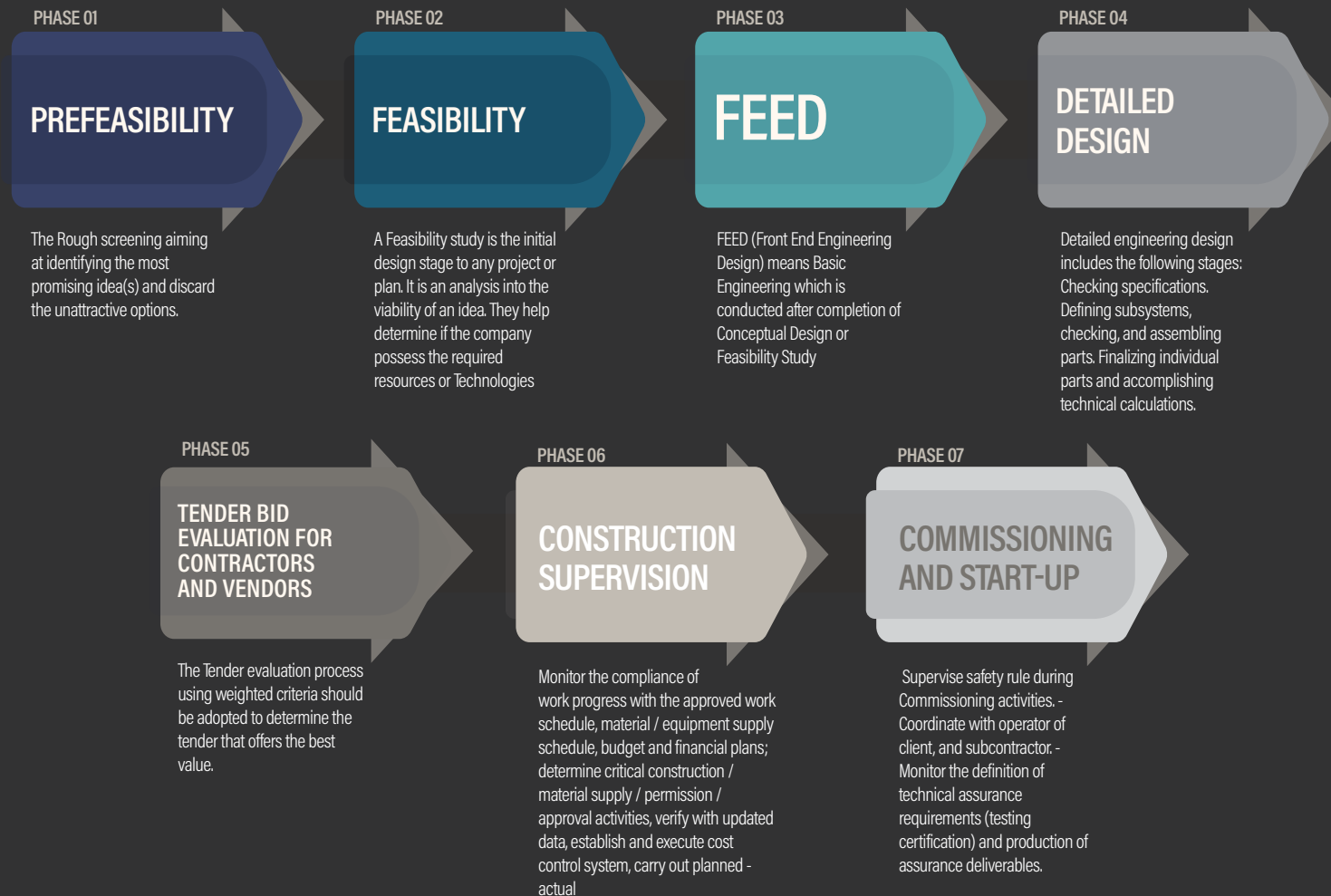


LOW CURRENT

# Engineering Projects Phases

## Engineering Consultant for Oil&Gas Industrial, Buildings ad Infrastructure

DIAR services including Engineering, procurement, and construction to meet our client satisfaction with high quality and minimum cost. DIAR believes that our quality is the main target for our team to be a competitive company in the world.





With extensive capabilities that serve our diverse end markets, we can work on a project from concept to completion and beyond.

Your Success  
Business Partner  
شركاء النجاح

We have a reputation for innovation and a proven track record for success, having completed numerous major projects, both national and international, on spec, on time and on budget.



# Engineering Disciplines-Deliverables

## 1. PROCESS

- PFD.
- P&ID.
- Process equipment specifications.
- Equipment datasheets.
- HYSIS simulation.
- Simulation reports.
- HAZOP & HAZID.
- HIPS.
- Process Philosophy.
- Basis of Design.

## 2. PIPING AND PIPELINE:

- General arrangement layouts.
- Plot plan.
- Piping isometrics (ISOs).
- Plant 3D modeling.
- Piping specifications for materials, paintings, etc.
- Stress analysis.
- Pipeline profile.
- Standard and special supports design.
- Construction support.
- Laser Scanning & 3D Modeling



# Engineering Disciplines-Deliverables

## 3. INSTRUMENT & CONTROL ENGINEERING

- Field instrumentation
- Process controls system such as: pneumatic, hydraulic, electronic & microprocessor (PLC & DCS), etc....
- Safety related systems; ESD, F&G and HIPPS, etc...
- SCADA systems such as fiber optic, micro wave, satellite, etc....
- Custody transfer metering systems
- Pipeline management systems
- Automatic tank gauging systems
- Oil & Gas wellhead control systems
- Asset Integrity Management For ICSS and - plant Control Components
- Subsea Hydraulic network analysis
- Subsea Power distribution analysis

## 4. MECHANICAL

- Tanks detailed and fabrication drawings.
- Static Equipment detailed and fabrication design. (Vessels, tanks)
- Machinery equipment specifications, datasheets & material requisitions.
- Cooling Load Estimation.
- Duct Design.
- Equipment selection.
- Chilled Water piping.
- Pump head & flow calculation.
- Water tanks calculation.
- Rain water and drainage design.
- Electrical Water Heaters design.
- Designed as a green building for LEED Certification.





# Engineering Disciplines-Deliverables

## 7. ARCHITECTURE

Architecture and design consultancy focusing on strategy, architecture and design for corporate, public sector and education clients for new build, refurbishment and heritage projects.

Our team has wealth of experience and comprises architects, interior designers, analysts, technicians, graphic designers and communication experts.

We cover all architectural work stages, adding further value with our extensive analytical tools and experience.

- Architectural Design
- Interior Design.
- Detailed Design.
- Working Drawing.
- 3d Modeling & Rendering.
- CAD Conversion/As Built Drawings.
- Interior Design.
- Detailed Design.
- Working Drawing.
- 3d Modeling & Rendering.
- CAD Conversion/As Built Drawings.

## 8. CIVIL

Our designers and technicians can provide quality engineering, and a broad base of practical experience for your project. Presently, we can undertake the following:-

Civil...

- Foundation design, analysis and details for equipment/machinery, storage tank, bunkers and silos, bridge,
- Industrial plant structures, tunnels, ducts, utility towers, galleries and walk ways, pipe racks and general structures.
- Reinforcement detailing and bar bending schedules.
- RCC drawings, shuttering plans
- Water supply and distribution plans and details
- Reservoirs & water tank details.



# Engineering Disciplines-Deliverables

## REVIT SUPPORT

- Diar Consulting Group is a group of (BIM Managers, BIM Consultants, BIM programmers, Technical support, Specialists, Autodesk certified professional users).
- Diar are ready to provide (BIM Training, BIM Technical support, BIM Implementation )
- Methodology: BIM Consultancy, BIM Modeling for BIM users and companies.
- Also we are publisher on Autodesk store.
- Diar Offers a Free BIM Presentations for the new users & companies.
- Our services include Autodesk Revit and Autodesk Navisworks.

- Manage software products including but not limited to incorporating new version releases and customization of the product
- Manage the implementation of supporting software for ,BIM
- Evaluate new BIM related software and technologies



## 9. LANSCAPE

- Site survey and analysis
- Program of needs
- Conceptual design sketches and models
- Landscape construction plans
- Plant lists and specifications
- Material specifications
- Lighting plans
- Signage and wayfinding plans
- Sustainability reports
- Construction details and specifications (shop drawings)
- 2d & 3D models and renderings
- As-built drawings

## 10. MEP

- Mechanical drawings and specifications: Detailed plans for HVAC systems, ductwork, piping, equipment selection, and control systems.
- Electrical drawings and specifications: Comprehensive plans for power distribution, lighting, communication systems, and fire alarm systems.
- Plumbing drawings and specifications: Detailed plans for water supply, drainage, waste disposal, and sanitary systems
- 3D models and simulations: Visual representations of the MEP systems and simulations of their performance.

# Engineering Disciplines-Deliverables

## HSE

1. HSE Plan which identifies potential hazards, assesses risks, and defines control measures to minimize them.
2. Risk Assessment also includes recommendations for risk mitigation and control.
3. Safe Work Procedures (SWPs) They include information on personal protective equipment (PPE), tools and equipment use, and emergency procedures.
4. Environmental Impact Assessment (EIA)
5. Emergency Response Plan
6. Training Materials
7. Permits and Approvals
8. Monitoring and Reporting

The specific HSE engineering deliverables required for a project will vary depending on the project's size, complexity, and location.

Out of international/national interest of the quality, environment, and occupational health & safety and in line with Egypt's vision 2030 for achieving sustainable development and the company's interest with the customer's satisfaction and continual improvement, Diar has the leadership in obtaining certificates of international standards for:

These certifications demonstrate Diar's commitment to meeting international standards in these areas and ensuring the well-being of its employees, customers, and the environment. By obtaining these certificates, Diar aims to enhance its reputation, attract more customers, and contribute to Egypt's vision of sustainable development.

- **Quality Management Systems (ISO 9001)**
- **Environmental Management Systems (ISO 14001)**
- **Occupational Health & Safety Management Systems (ISO 45001)**

**QUALITY, ENVIRONMENTAL, HEALTH & SAFETY MANAGEMENT SYSTEM**





PMC

**Project management  
consultancy**

# Project management consultancy

## 1. PLANNING ASPECT

- Develop Master time schedule
- Monthly update, and one month look ahead
- Develop monthly report
- Weekly report for all staff including the critical activities should be finish next week, and the delayed activities for current week
- Develop reports for cause of delays and how to crash
- Develop crashed time schedule if needed

## 2. COST CONTROL ASPECT

- Develop S- Curve, and expected cash Flow
- Develop cost control system, as log for all subcontractors and all activity will performed in house and estimate cost for each items
- Identify target cost
- Update cost estimate and calculate variance of cost
- Make cost analysis and develop corrective actions
- Develop monthly cost report
- Create all cost indexes, SPI, CPI, ETC, EAC
- Analysis all variation orders

## 3. RESOURCE MANAGEMENT ASPECT

- Resource allocated for activities (equipment & labor & material)
- Managing the resource over project life

## 4. CONTRACT ADMINISTRATION ASPECT

- Review contract terms and identify all obligations
- Identify financial and contractual commitment
- Develop delay analysis and time impact analysis
- Prepare all contractual letters
- Respond for all consultant contractual letters
- Monitor and alarm for all potential claims
- Prepare claim document and develop all claims



# Power Generation Capabilities

[www.diargroup.com](http://www.diargroup.com)



Our team at Diar Engineering Consulting Company has been involved in various solar energy generation projects, providing our expertise and experience to ensure the success of these initiatives. With a proven track record in similar projects, we have the knowledge and skills necessary to deliver high-quality engineering consulting services for solar energy generation.

## Renewable Energy Generation Main Consulting Activities

- Feasibility Studies.
- Power Generation Design.
- Renewable Energy Design.
- Quantity Surveying.
- Tender Documents.
- Project Management Support.
- Plant Configuration Analysis.
- Design Drawings.

- Tendering Conditions & Conditions of Contract.
- General Specifications for all trades
- Bills of Materials for all trades
- Final Cost Estimate.
- Power Evacuation and Grid Interconnection Studies.

### Typical Solar Plant Design Tasks

Electrical Design DC System / AC System

Technology Selection

Grid Connection

Site Buildings

Site Security

Plant Monitoring

Optimizing System Design

# Renewable Energy Generation

## Our Projects



**01** Zano Solar PV Park,  
Burkina Faso

Zano Solar PV Park is a 24MW solar PV power project. It is planned in Central-East, Burkina Faso



**02** 16 MWp Solar PV  
Power Plants in  
Bokenema  
Sierra Leone.

Planet Solar PV project is split in four different locations in Sierra Leone, consisting of a 12MW power plant under construction in BO/Kenema



**03** 4 MWp Solar PV  
Power Plants in  
Port Loko - Sierra  
Leone

Planet Solar PV project is split in four different locations in Sierra Leone, consisting of a 4.05 MW (DC) power plant to be constructed in Port Loko

## Our Services

- Diar Consulting Group specializes in renewable energy consulting services, focusing on photovoltaic and other clean energy solutions.
- Our services include feasibility studies, project development, technical design, construction management, and operations & maintenance.
- We empower clients to achieve their sustainability goals through innovative and cost-effective solutions.

EIA, ESIA,  
EHSIA, EBS,  
BAP

PV Engineering  
Design

PV  
Procurement  
support

PV  
construction  
Management

Health & Safety

Monitoring &  
Testing

## Partnership

Diar has conducted a JV Agreements:



GREEN PLUS – EG



DAAEM – BAHRAIN



VADO - KSA





# Our **Mining** Capabilities

[www.diargroup.com](http://www.diargroup.com)

# Our Mining Capabilities

Recently, We have started establishing our Mining team for several Mining Projects Like the extraction of phosphate and processing of industrial phosphate fertilizers - Algeria, Boosting Phase III Step 2 Hassi R'Mel Project, Kaolin Mining Project - Egypt, and other Projects.

**The team's experience and expertise are mainly focused on the following activities:**

- Review of Geological Research.
- Review of Mining Reserve.
- Review of Extraction Planning.
- Review of Enrichment Process.



 Live Photo  
Phosphates Mining Project, Algeria

REVIEW OF PRE-FEED PACKAGE INCLUDING:

- Preliminary Design Basis.
- Preliminary PFD.
- Preliminary P&IDs.
- Preliminary Operation & Control Philosophy.
- Preliminary Plot Plan.
- Preliminary Piping Study.
- Preliminary Electrical Study.
- Preliminary Instrument Control Philosophy.
- Preliminary Equipment Data Sheets.
- Preliminary Equipment List.
- Preliminary Firefighting Philosophy.

# Our Mining Capabilities

## REVIEW THE FEED PACKAGE.

- Review of Design Basis.
- Review of HSE Guidelines.
- Review of Process Description.
- Review of Operation and Control Philosophy.
- Review of P&IDs.
- Review of PFDs.
- Review of Plot Plan.
- 3D Model.
- Review of Instrument Control Philosophy.
- Review of Equipment List.
- Review of Equipment Data Sheet.
- Hazardous Area Classification.
- Control Room Layout.
- Instrument Panel Room Layout.
- Instrument List.
- Summary of Electrical Load.
- SLD.
- Substation Layout.
- Equipment Foundation.
- Piping MTO.
- Electrical MTO.
- Instrumentation MTO.
- Civil MTO.
- Firefighting System.
- MSG.
- HAZOP Study.



## ■ EPC PACKAGE.


- Detailed PFDs.
- Detailed P&IDs.
- Operation and Control Philosophy.
- HAZID / HAZOP Study.
- Cause & Effect Matrix.
- 3D Model.
- General Arrangement Drawing.
- Equipment List.
- Junction Box Schedule.
- Wiring Diagram.
- Cable Routing Layout.
- Logic Diagram.
- Control Room Layout.
- Cable Schedule.
- Hook-Up Drawings.
- Loop Diagram.

## ■ EIA STUDIES

## ■ SAFETY STUDIES

## ■ PORT DESIGN

- Design and Supervision of Break Water Revetment Port.
- Design and Supervision of New Cargo Terminal.
- Design and Supervision of New Dry Bulk Material.
- Design and Supervision of the Quay Wall.
- Design and Supervision of Shore Protection.
- Design and Supervision of New Port.



Diar in-house specialists work in close coordination to ensure end-to-end project management, from site investigation and feasibility phases through to final delivery to the operator, working on behalf of the project owner, suppliers and general contractors.

## PMC PROJECTS

(INDUSTRIAL, MINING PROJECTS)

[WWW.DIARGROUP.COM](http://WWW.DIARGROUP.COM)

## MINING PROJECTS, ALGERIA

# Project Managment Consulting Projects ....

## Indusrial and (oil & Gas)

### 1. ACFC - Integrated Phosphates Project

AC Fertilizer Company, Joint stock company inder Algerian law created to develop the integrated phosphates Project (PPI) which consists of the development, exploitation of the deposite, the enrichment of phosphates of the deposite of Bled El Hadba/ wilaya of TEBESSA, the chemical transformation od phosphates and natural gas and the manufacture of fertilizers in Oued Keberit/ wilaya of SOUK AHRAS and their marketing on the national and international markets through the Port of ANNABA



#### Project Phasing:

The PPI Project will be Carried out in two (02) phases, The First phase of five (05) years (four years of construction followed by one year of commissioning and production) will concern the realization of 50% of the overall program of the project in the terms of capacity and number of production units

The Second phase of four (04) years will concern the realization of the remaining 50% of the Program of the project in terms of capacity and number of production units.

## MINING PROJECTS, ALGERIA

# Project Managment Consulting Projects ....

## Indusrial and (oil & Gas)

### Scope of Work

The Client plans to use a PMC Service Provider exclusively during the planning phase (studies phase) to benefit from its expertise in the field of the development, exploitation of phosphates deposits and thier enrichment, chemical transformation of phosphates and manufacture of ammonia and of Fertilizers through a Selective Consultation.

Algerian and Chinese companies, ASMIDAL, MANAL, WUHUAN, and TIAN'AN, have formed a joint venture, the Algerian Chinese Fertilizers Company (ACFC), to develop an integrated phosphate project in Algeria. The Algerian partners hold a 56% stake, while the Chinese partners own 44%. This partnership aims to leverage the expertise of both sides to establish a significant phosphate production facility in Algeria.



Diar Project Managment Consulting Projects.....



THE PROJECT VALUE IS ( 8 ) BILLION USD

HILL-DIAR WAS AWARDED THE PROJECT MANAGEMENT CONSULTANT (PMC) ROLE. THE PROJECT IS CURRENTLY "IN THE FEASIBILITY STUDY PHASE, STARTED 6 MONTHS AGO."

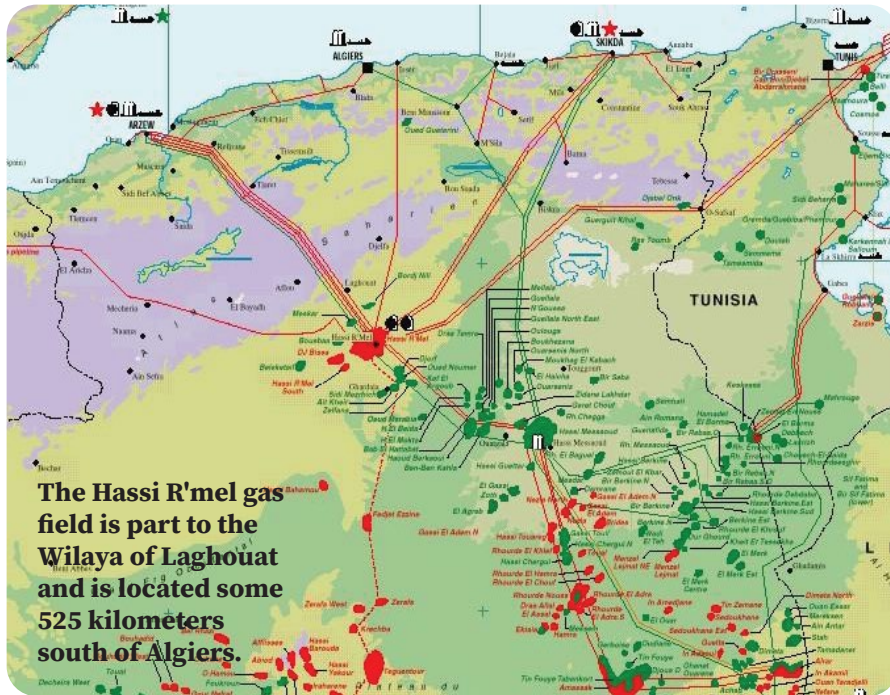
## 2. Total Energies TOTAL APPT

Review for detailed Engineering which executed by contractors as follow:

- Detailed Engineering for piping, tanks, and steel structure support for piping.
  - Detailed Engineering for E&I
  - Detailed Engineering for Civil and MEP.
- In addition to PMC for overall project.

## MINING PROJECTS, ALGERIA

# Boosting Phase III Step 2 Hassi R'Mel Project (Algeria)



Hill International has invited Diar Consulting Group for the provision of Priced Material Take Offs (MTOs) for the Boosting Phase III Step 2 Hassi R'Mel Project.

### Scope of Work

Project scope of work in details, which includes the following:  
Prepare Piping, Instrumentation, Electrical, Mechanical and Civil Priced Material Take Offs (MTOs) for the Boosting Phase III Step 2 Hassi R'Mel Project.

Hassi R'Mel is located 525 km south of Algiers and covers an area of more than 6000 km<sup>2</sup>.

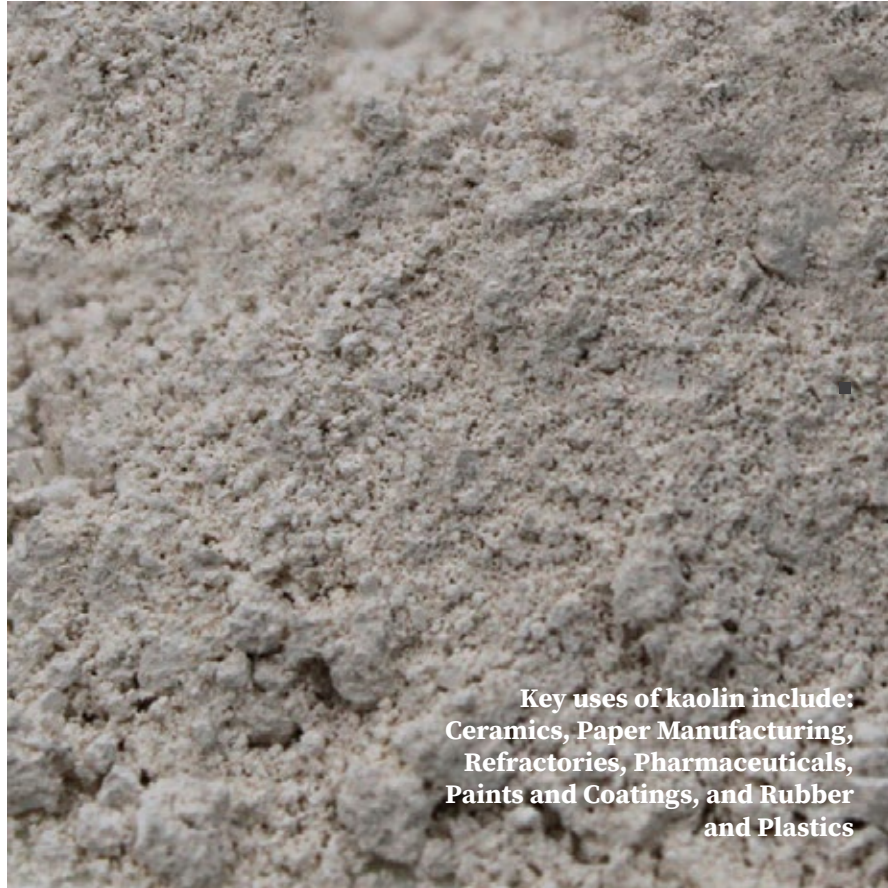
The raw gas coming from this field is processed in three processing facilities, approximately 20 to 25 kilometers apart. The current operating pressure is 57 Bara at the inlet to the existing facilities (Boosting Phase-2).

In order to maintain the production plateau to an approximate of 180 MMSm<sup>3</sup>/d when the pressure at inlet facilities will decrease gradually to ten (10) bara in step 2, and in order to maintain the operation of the existing compression facilities (Boosting Phase III Step1) at 24 bara inlet compressor suction Boosting II –Step1, new upstream LP booster compression facilities will be installed in each zone (Boosting Phase III) to cope with the lower inlet pressures.



**THE PROJECT'S  
TOTAL VALUE  
2,400,000,000  
USD**

## Feasibility Study for Kaolin Project, WADICO (Egypt)



Key uses of kaolin include:  
Ceramics, Paper Manufacturing,  
Refractories, Pharmaceuticals,  
Paints and Coatings, and Rubber  
and Plastics

**Egypt possesses significant reserves of kaolin, a versatile mineral with diverse industrial applications. Kaolin deposits are found in various regions across the country, with notable occurrences in the Sinai Peninsula. This valuable resource plays a crucial role in various sectors, including ceramics, paper, and pharmaceuticals.**

As WADICO a leading governmental company in the extraction and beneficiation of mineral resources in Egypt and, Diar Group a premier private sector company specializing in project management consultancy and engineering services, WADICO & Diar have establish a partnership for the following scopes of work:

1. Project Management Consultancy (PMC) and Engineering Services for Kaolin Sand Extraction and Beneficiation.
2. Project Management Consultancy (PMC) and Engineering Support for Phosphate Ore Beneficiation.
3. Engineering Arm for WADICO Projects.







DIAR BRINGS THE EXPERTISE OF MULTINATIONAL CONSULTANTS CAPABILITIES COUPLED WITH THE HISTORY OF SUCCESSES, TECHNICAL AND LOCAL KNOWLEDGE OF MIDDLE EAST MARKET..

# INDUSTRIAL AND OIL&GAS

PROJECTS, IN EGYPT AND THE MENA REGION

[WWW.DIARGROUP.COM](http://WWW.DIARGROUP.COM)

# Safe Treatment of Liquid Waste from (The VCM unit) by Converting to Organic Solvent

This project is focused on addressing the challenge of managing black liquid waste produced by **the Vinyl Chloride Monomer (VCM) unit at the Egyptian Petrochemical Company**. The initiative involves designing and implementing a sustainable conversion process to transform this hazardous waste into environmentally friendly organic solvents. These solvents are intended to serve various industrial sectors, including degreasers, adhesive manufacturing, and cleaning products. The project aims to significantly reduce environmental impact, enhance waste management practices, and contribute to the company's commitment to sustainable and green chemistry.



## Scope of work:

Diar Group will assess the feasibility and economic viability of converting VCM waste into high-quality organic solvents.

They will conduct a business case study to support ECR's application for governmental approvals and licenses. Diar Group will collaborate with ECR to refine the project scope, develop financial models, and prepare documentation for the approval process.

## Project Work Stages

- Initial Assessment
- Detailed Business Case Study
- Final Report and Presentation

# Hawiyah Unayzah Gas Reservoir Storage, Nesma & Partners

Al Hawiyah, Makkah, KSA

## **Project Brief:**

The purpose of the proposed Hawiyah Unayzah Gas Reservoir Storage Project is to provide the necessary facilities to store off-peak surplus sales gas via injection into the Hawiyah Unayzah reservoir during the low-demand season for reproduction back into the Master Gas System (MGS) during high demand; thereby maximizing the gas plants utilization.

First of its kind gas storage project for Saudi Aramco, it includes a design compression facility for injecting 1500 million standard cubic feet per day (MMSCFD) and a design reproduction facility for reproducing 2000 MMSCFD of gas during peak consumption to produce sales quality gas.

The project will enable Aramco to inject 1.5 bscfd of surplus natural gas from the MGS into the Hawiyah Unayzah Reservoir by 2022. In addition, the processing facilities will be able to reproduce up to 2.0 bscfd of gas stored for re-introduction into the MGS by 2024.



**Nesma & Partners have invited Diar Consulting Group for the performance of As-Built Drawings Generation and Upload to I-Plant package required for the HAWIYAH UNAYZAH Gas Reservoir Storage project in accordance with the received e-mail from MR. Salman Hammad (Thursday, August 8, 2024)**

## **Scope Of Work:**

Diar Consulting Group shall generate the As-built Drawings from redline drawings in accordance with Saudi Aramco MicroStation Drafting Procedures and iPlant Uploading Process.

# Hawiyah Unayzah Gas Reservoir Storage, Nesma & Partners

Al Hawiyah, Makkah, KSA



## MicroStation Draftsman Scope:

- Incorporate redline markups on approved IFC vector (MicroStation/DGN, Excel and word) drawings and documents
- Incorporate review/rejection comments should there be any and resubmit until final approval is secured
- Uploading of IFC drawings and documents into iPlant system
- Resolving the errors during iPlant uploading
- Incorporating compliance related rejection comments by EK&RD if any and resubmitting to iPlant system until final approval is secured
- Validate and update title block which includes revision number, document number, approver, etc.
- Quality check of drawings which includes drawing format, spelling correction, etc.

# West East (WEP) Project

## Drafting and Engineering Assistance, ENPPI

Fujairah Terminal, UAE

### Project Overview

Pipeline beginning with Fujairah, through the West to East Pipeline (WEP) Project, spanning 500 Km.

Constructing a 48" diameter onshore crude oil pipeline from Jebel Dhanna to Fujairah MOT, incorporating intermediate pumping stations and block valve stations for operational efficiency and safety.



ADNOC aims to expand its global trading platform, focusing on Fujairah Terminal. The WEP Project, a 48-inch pipeline from Jebel Dhanna to Fujairah MOT, will optimize export logistics and storage

### Project scope of work in details, which includes as minimum the following:

- Drawing Revisions: Three revisions per drawing with a unit price for additional revisions.
- Construction Document Reviews: Two review cycles with a unit price for additional reviews.
- ADNOC Standards Compliance: Strict adherence to ADNOC Onshore Drafting Standards (Master-30-99-10-0147, Master-30-99-10-0148, Master-30-99-95-0006-1, 30-99-11-0149, and EM-30-99-95-0004-1).
- Team Collaboration: ENPPI Pipeline Engineer to be resident at Diar premises. Option for a Diar Pipeline Engineer (10+ years ADNOC experience) to be resident at ENPPI.
- Draftsman Qualifications: Draftsmen with minimum 5 years' experience and CVs subject to ENPPI approval.

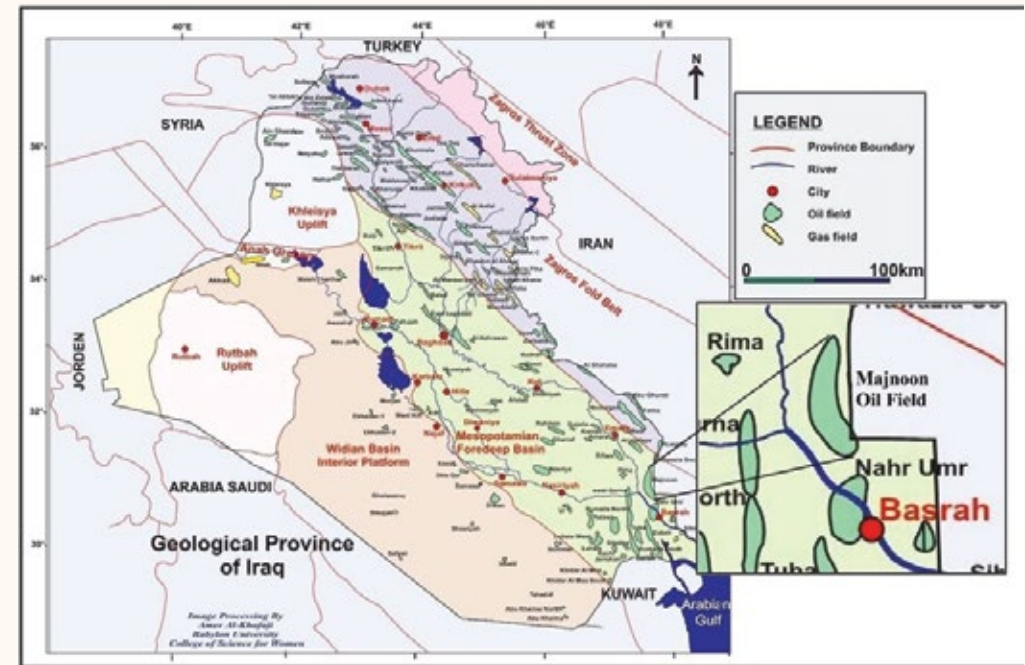
# Majnoon Oil Field

## FEED For DS2 Wet Oil Upgrading, IRAQ

Near Basra, Iraq

### Project Overview

The Majnoon Oil Field is a super-giant oil field located 60 km (37 mi) from Basra in southern Iraq. Majnoon is one of the richest oilfields in the world with an estimated 38 billion barrels of oil reserves. The field was named Majnoon which means crazy in Arabic in reference to excessive amount of oil in a dense area



Engineering Services Provision on Flat Hour Rate Basis for Majnoon Oil Field  
FEED for DS2 Wet Oil Upgrading Project (WOUP) for Instrumentation, Low Current and Electrical Engineering works.

# Plumbing & Electrical & Low Current Design For WHRPP STG Building, Helwan Cement

Helwan cement factory, Egypt



## Project Overview

Suez Cement Group of Companies (SCGC), owned by Heidelberg Cement group, has announced in 2021 an investment of around US\$20m to build a waste heat recovery system (WHR) at its Helwan cement factory in Egypt.

The new facility will be using the latest technologies to ensure an environmentally friendly and energy-efficient production process, and significantly reduce CO2 emissions produced from the electricity supply. The WHR system will have the potential to generate up to 18MW of power for captive consumption.

"Waste heat recovery can be a crucial factor in reducing energy use, costs, and CO2 emissions at cement plants by utilising waste energy normally vented into the atmosphere to produce up to 30 per cent of a cement plant's electricity needs. We are happy to be the forerunners of this effort in Egypt, as this is the first time such an installation is constructed in the Egyptian Cement industry,"

## Helwan Cement, WHRPP STG Building

The Client is working on an IN-HAND project of Waste Heat Recovery power plant for Helwan Cement Factory, and has invited Diar Consulting Group to perform the complete engineering design package for the Electrical (Lighting, Power and Earthing), Light-Current and Plumbing systems for the STG building.

### Scope of work

1. Light Current works
2. Lighting & Power & Earthing works
3. Plumbing (supply & Drainage) works

# Masaieed Industrial Area-Qatar

## **MESAIEED Industrial Area**

An industrial area in Al Wakrah Municipality in the State of Qatar, approximately 40 kilometers south of Doha.

MESAIEED was established in 1949 as a tanker terminal by QatarEnergy on a previously uninhabited site along the coast. The first industrial facilities prepared on site were oil pumps and oil storage tanks. Further development by the government was undertaken on MESAIEED from 90's to present. They installed industrial facilities, mechanical equipment and developed the road system at an estimated cost of \$200 mn.



## **Project Overview:**

Diar successfully completed a challenging project aimed at improving the operation, maintenance, environmental standards, and safety aspects of Qatar Energy NGL Plants. The primary objective of this project was to enhance the monitoring and efficiency of the drain piping system for 15 crude oil storage tanks located in the Tank Farm area in MESAIEED.



# Masaieed Industrial Area-Qatar

## Scope of Work



### **Project Phases :**

**Phase(1): Design/Engineering Phase:** initial stage of the project, focusing on identifying and recommending detailed designs for the modification of the drain piping system in the 15 crude oil storage tanks.

**Phase(2): Construction Phase:**

The execution of the procurement, supply, installation, construction, demolition, testing, inspection, tie-in, commissioning, start-up.



- **Study of Tanks Drain line Piping:**

Diar conducted a comprehensive study to examine the underground and above-ground drain systems installed in the 15 crude oil storage tanks. Covering important aspects such as piping placement, routing, sizing, material selection, and necessary modifications to optimize the piping monitoring process.

- **Interface with Existing Systems and Facilities:**

Diar ensured a success interface between the proposed modifications and the existing systems and facilities. With Coordination with Process, Mechanical/Piping, Instrumentation/Control, Electrical, Civil/Structure, and Loss Prevention/Safety depart-



### **Key Deliverables:**

- Site Survey Report
- Detailed Engineering Study Recommendation Report
- Updated As-Built Drawings
- Design Package
- Final EPIC Package

# Safaniya Oil Field

## ARAMCO-Saudi Arabia

(MicroStation) :-is a CAD software platform for two- and three-dimensional design and drafting, developed and sold by Bentley Systems and used in the architectural and engineering industries. It generates 2D/3D vector graphics objects and elements and includes building information modeling features)



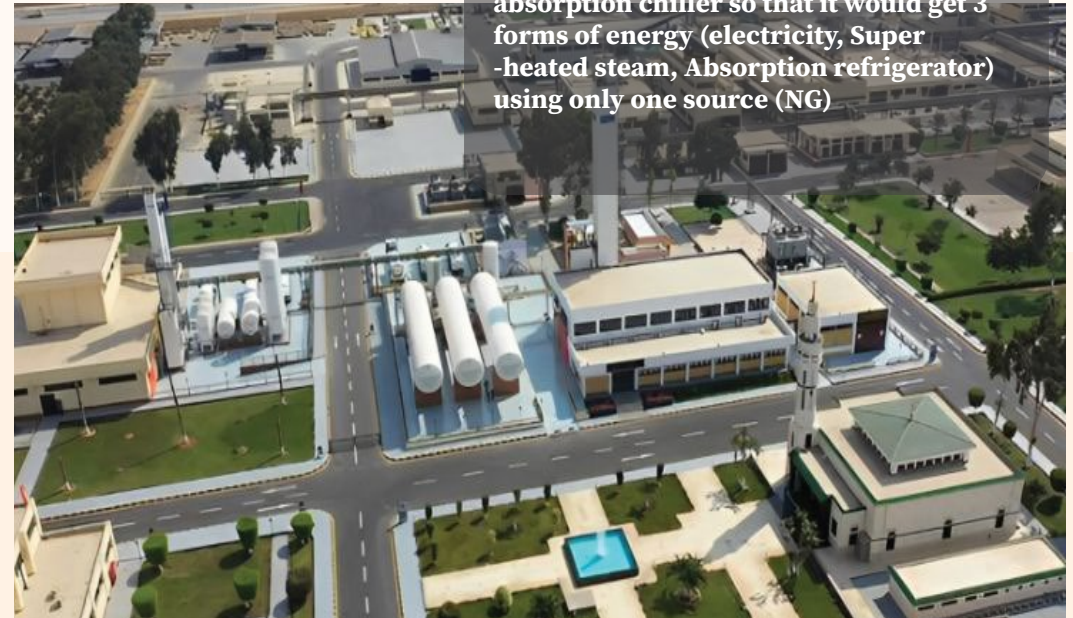
### Scope Brief:

Piping As Built Drawings Issued final As-built documentation including 3D Model, Piping General Arrangement Drawing and Piping Isometric Drawing ENPPT is carrying out all the procurement totties for **Saudi Aramco** wastewater disposal system Refurbishment project, **SAFANIYAH**



**Engineering for the Petroleum  
& Process Industries  
SAFANIYAH  
(ENPPI KSA) Saudi Arabia**

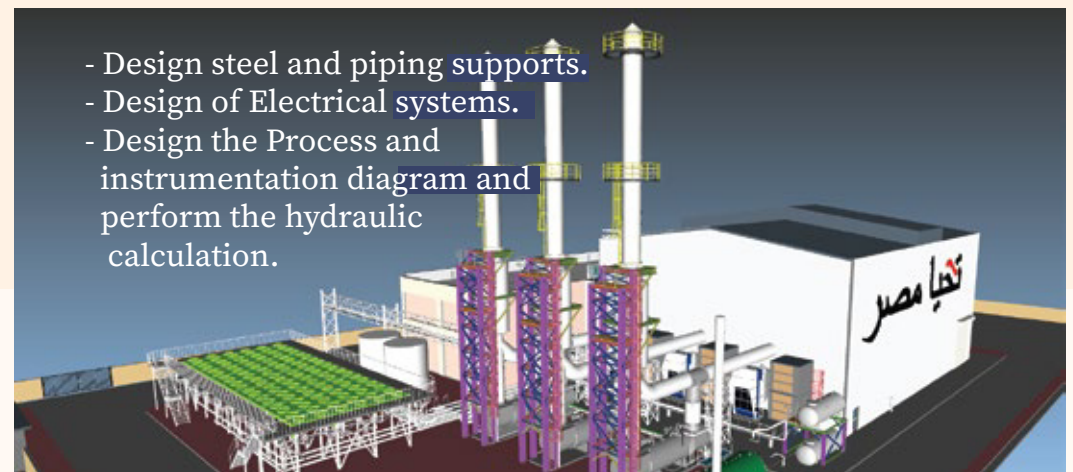
# NCIC Tri Generation Power Plant



NCIC intends to establish a 30-MW Tri-Generation power plant to utilize the exhaust of the engines to generate steam and operate an absorption chiller so that it would get 3 forms of energy (electricity, Super-heated steam, Absorption refrigerator) using only one source (NG)

The project scope is the engineering services for the process area. Which include the following:

- Engineering study and design of the scope areas and the interconnecting piping between the equipment of the power plant (Engines, Boilers, Auxiliary modules ...etc.).
- Design Piping isometrics drawing of the project systems.
- Perform Stress analysis activity for critical lines.



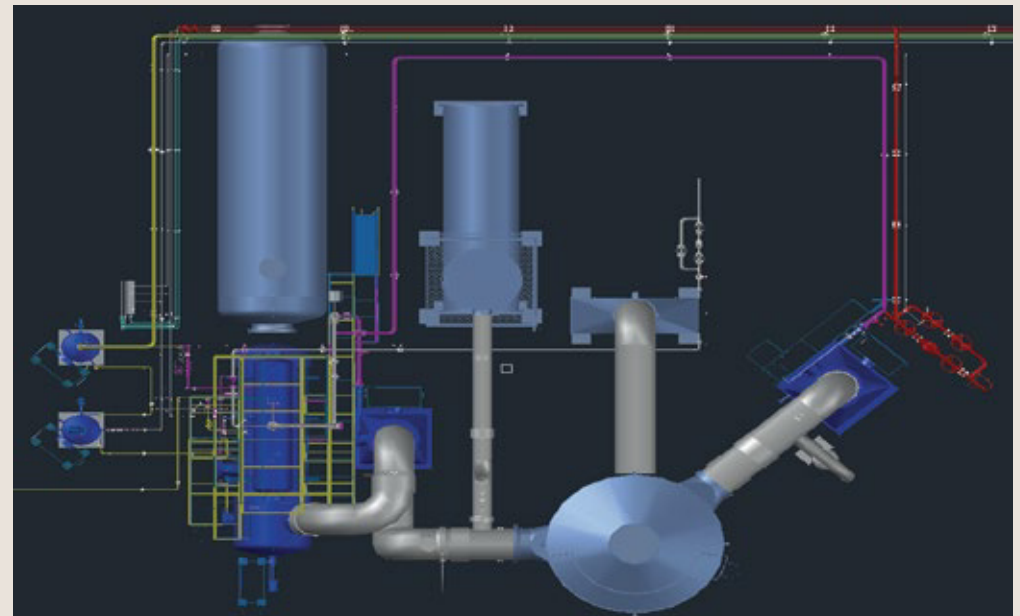
- Design steel and piping supports.
- Design of Electrical systems.
- Design the Process and instrumentation diagram and perform the hydraulic calculation.

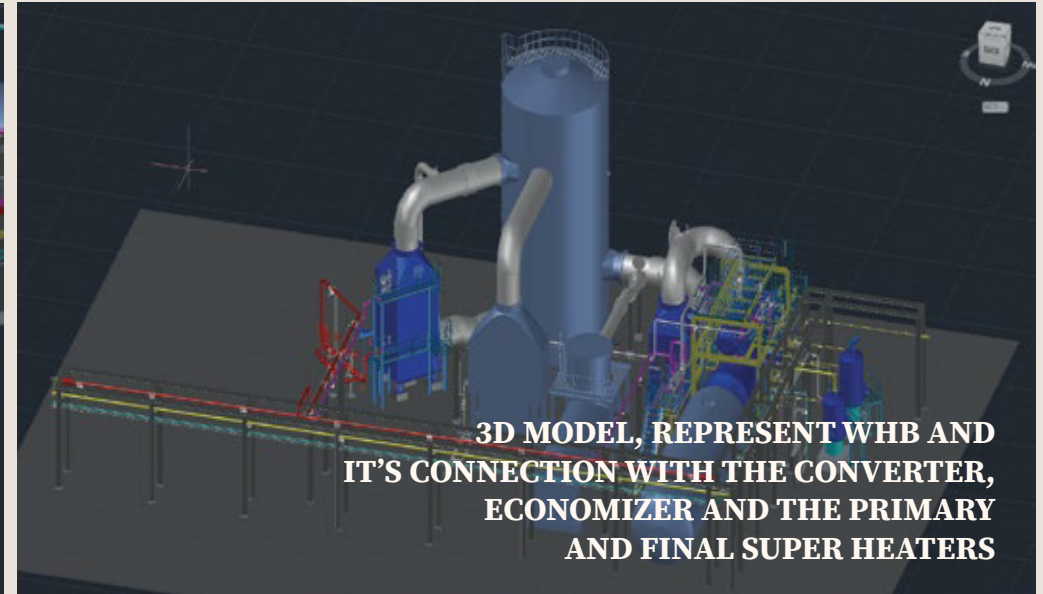
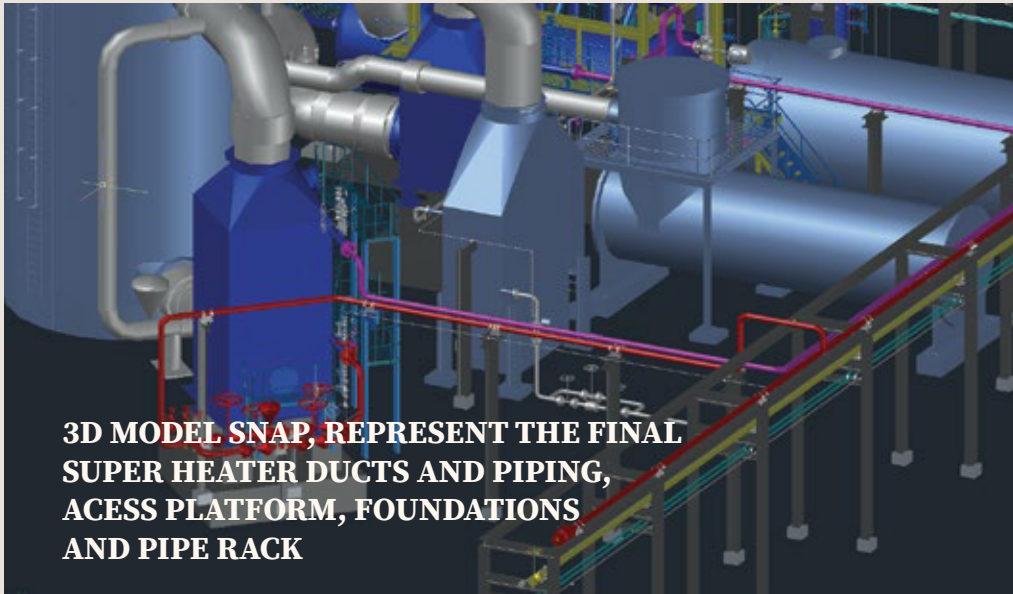
# NCIC Tri Generation Power Plant



# Waste Heat Boiler Replacement Project-Abu Zaabel Fertilizers & Chemical Company-AZFC

- AZFC Intends to Design piping and connection for the new boiler and super-heaters station with the existing converter including design, Piping drawings, ducts, and selection of expansion joints.
- IEMSA invited DIAR to perform the engineering services.
- The project is endeavored to Perform the engineering services for mentioned areas in the project brief including piping, and civil engineering.

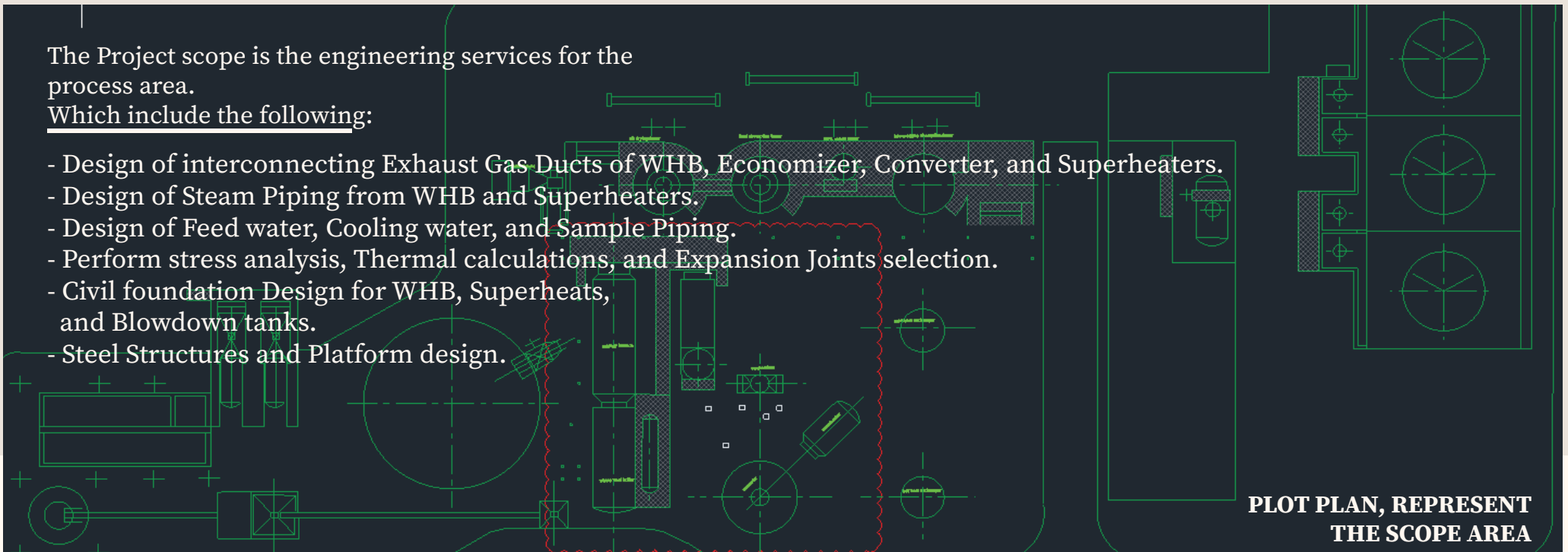




The Project scope is the engineering services for the process area.

Which include the following:

- Design of interconnecting Exhaust Gas Ducts of WHB, Economizer, Converter, and Superheaters.
- Design of Steam Piping from WHB and Superheaters.
- Design of Feed water, Cooling water, and Sample Piping.
- Perform stress analysis, Thermal calculations, and Expansion Joints selection.
- Civil foundation Design for WHB, Superheats, and Blowdown tanks.
- Steel Structures and Platform design.



# CHP Plant Engineering & Estimation Works

## PROJECT BRIEF:

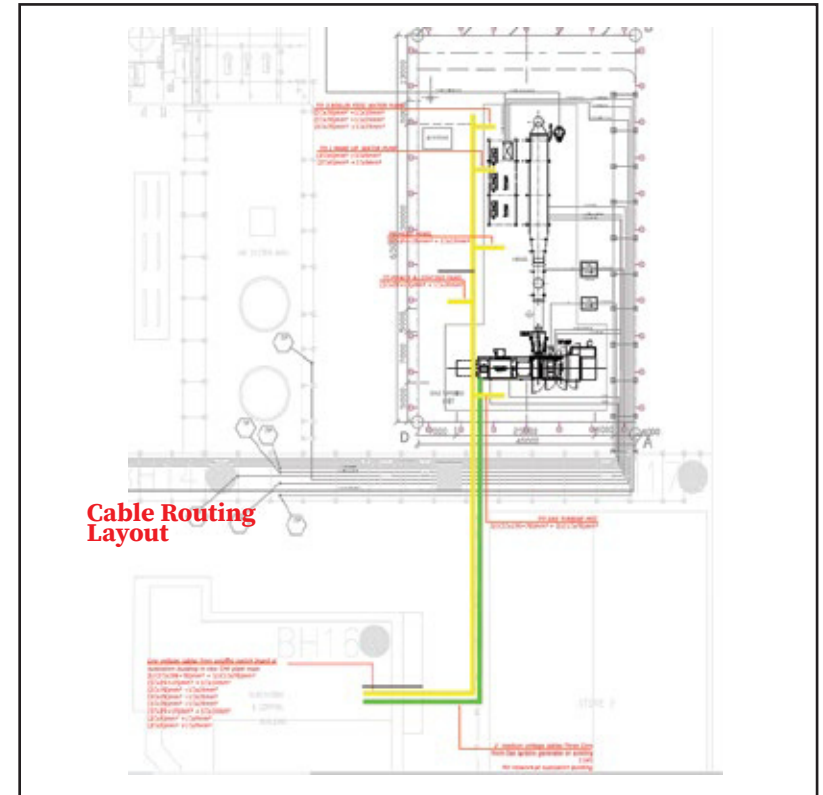
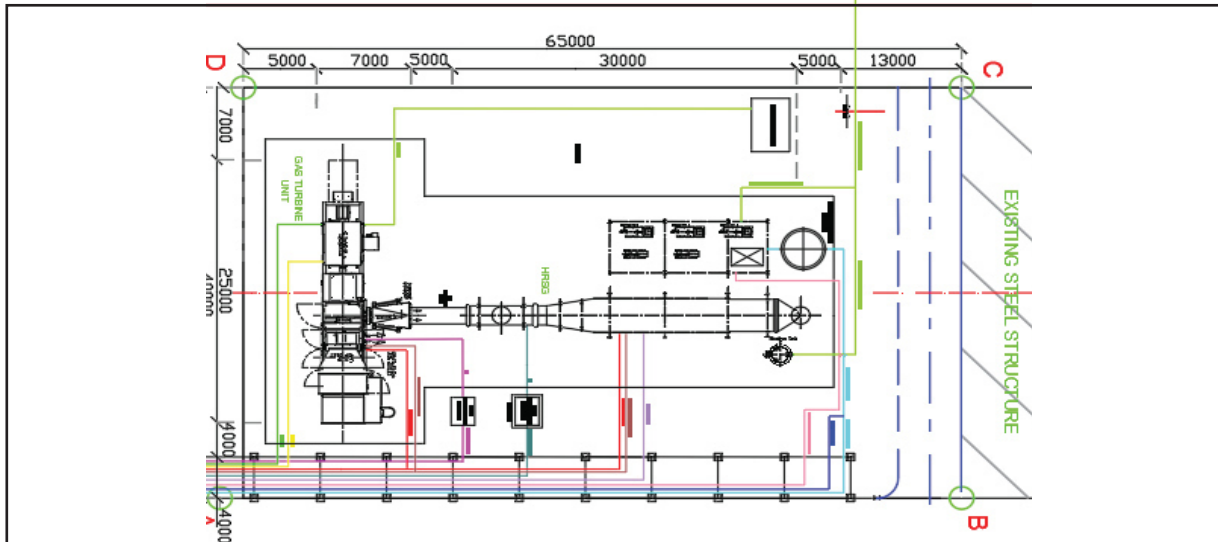
SIDPEC intends to construct a Combined Heat and Power (CHP) Plant located at El Ameriya – Alexandria and has invited Diar Consulting Group to perform the engineering works and estimation of the aforementioned project.

### PROJECT GENERAL INFORMATION

SIDPIC intends to establish a new Cogeneration (CHP) power plant. Accordingly, The Client would like to cooperate exclusively based on a pre-bid agreement with Diar to back agreement for the scope of EPCM. (Engineering, procurement, construction supervision/management).

**PLOT PLAN DWG, REPRESENT THE SCOPE AREA AND TIE-IN POINTS WITH EXISTING SYSTEMS**

# CHP Plant Engineering & Estimation Works



**The project scope of work in detail, which includes as a minimum the following:**

- During the Bidding phase: o Engineering & Estimation for all packages of the project except for the Gas
- Turbine & Heat Recovery Steam Generator (HRSG)



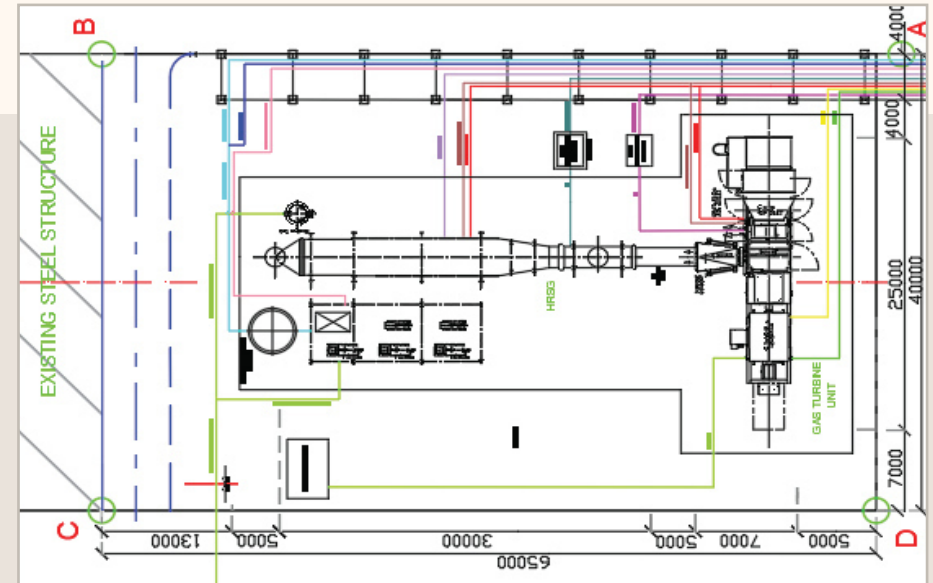
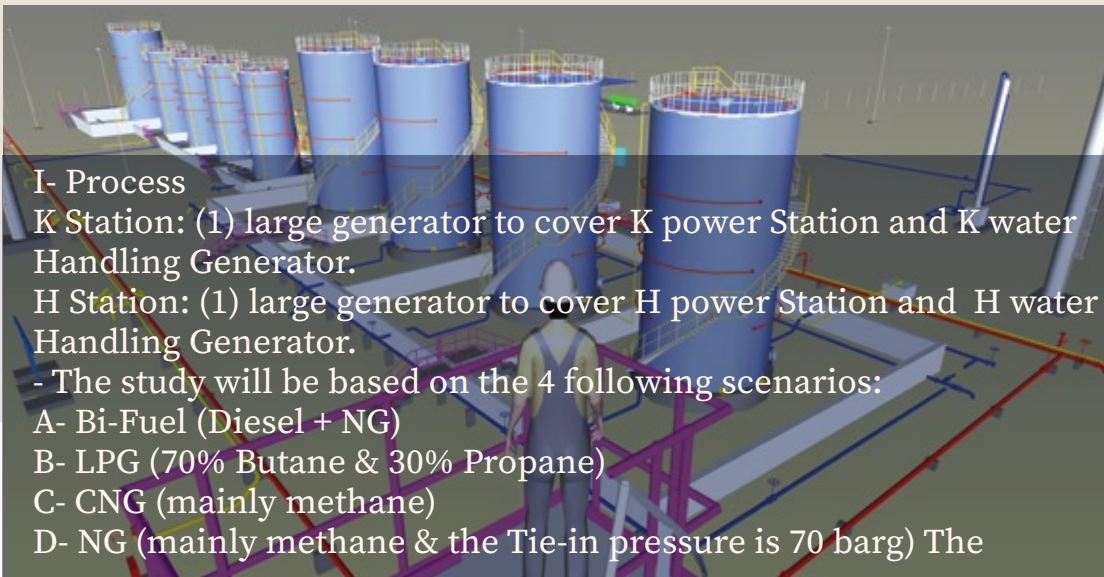
# Petro Bakr - Energy Sources and Emissions Study

## I- Process

The main purpose of the process team during the site visit was to get & locate all the generator set places, identifying the location of the LPG tank or truck & CNG, and locating the gas pipeline for Natural gas scenarios.

## II- Electrical

The main purpose of the electrical team during the site visit was gathering all useful information and data collection for better understanding of the current power feeding scenario, loads distribution, generators, transformers, distribution stations including capacities, locations and demand load values. In addition to realizing other alternative scenarios of potential energy sources.



- Proposed location of gas Tie-in is approximately 11 KM to the nearest location of K&H.

The new power generators will be located in the same place of the existing power station.

- The calculated load will be only for power station & water handling in the K & H area. In absence of the gas analysis the NG & CNG composition will be considered as methane. The LPG composition consist of 70% butane & 30% propane.

- The distance between the nearest location of proposed gas line Tie - in and H. Area (Approx. 4.8 Km) & for K.

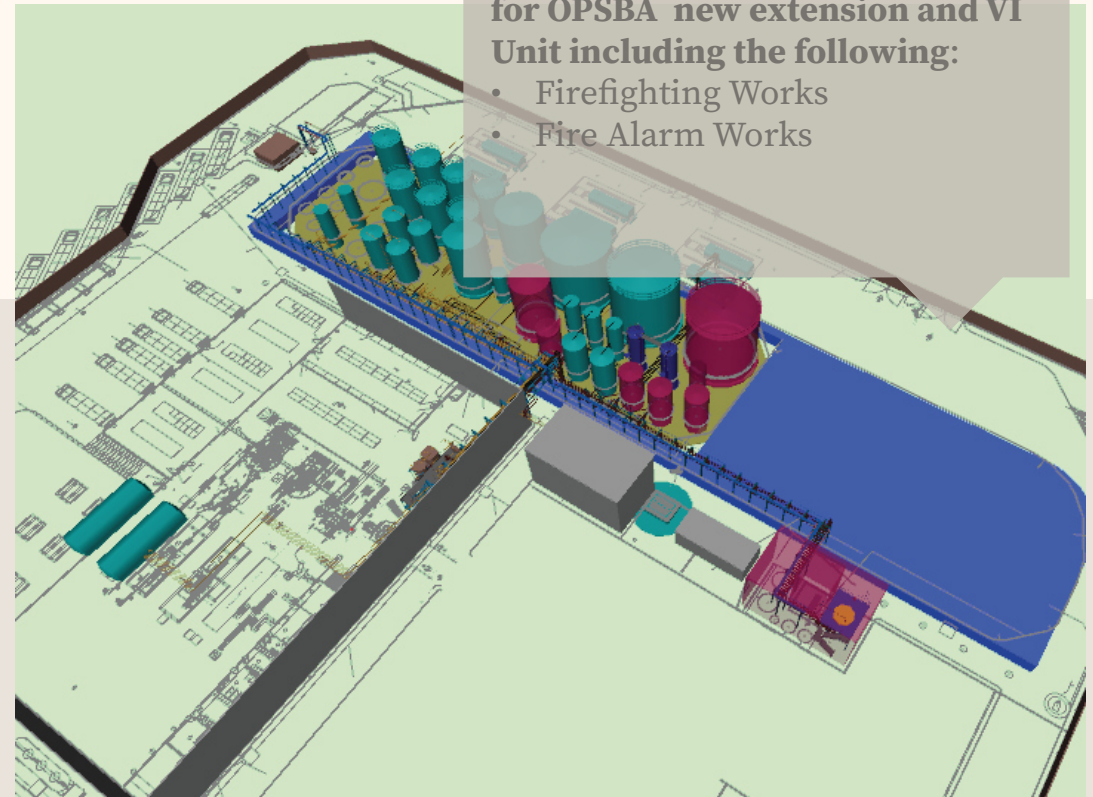
Area (Approx. 5 Km).

# Total/Oil Libya, OPSBA Plant Expansion VI Unit Borg El-Arab Industrial Zone-Alexandria

**Total and OiLibya have intended to build their new joint industrial facility in Borg El Arab, Egypt.**

- The facility comprises a tank farm and a blending unit that will be operated by Oil Products Storage and Blending Alexandria (OPSBA), an industrial joint venture in which each company will hold 65 per cent and 35 per cent respectively.

Covering more than 34,000 sq m, the unit took 16 months to build and was completed in October 2012. Features include a lubricant blending unit with a production capacity of 40,000 mt per year, a depot with 23 tanks that can hold 8,000 cu/m of products, and an onsite laboratory for quality control and oil analysis purposes.



OPSBA (JV Total and Oil Libya)  
Basic and Detailed Engineering for OPSBA new extension and VI Unit including the following:

- Firefighting Works
- Fire Alarm Works

The blending unit produces a wide range of lubricants for manufacturing, agricultural and construction machinery as well as for trucks, cars and motorbikes.

# PETROGULF Misr

1- Petro gulf misr is intending to conduct HSE CASE study for Geisum Star (central offshore processing facilities) and Diar scope will include the following:

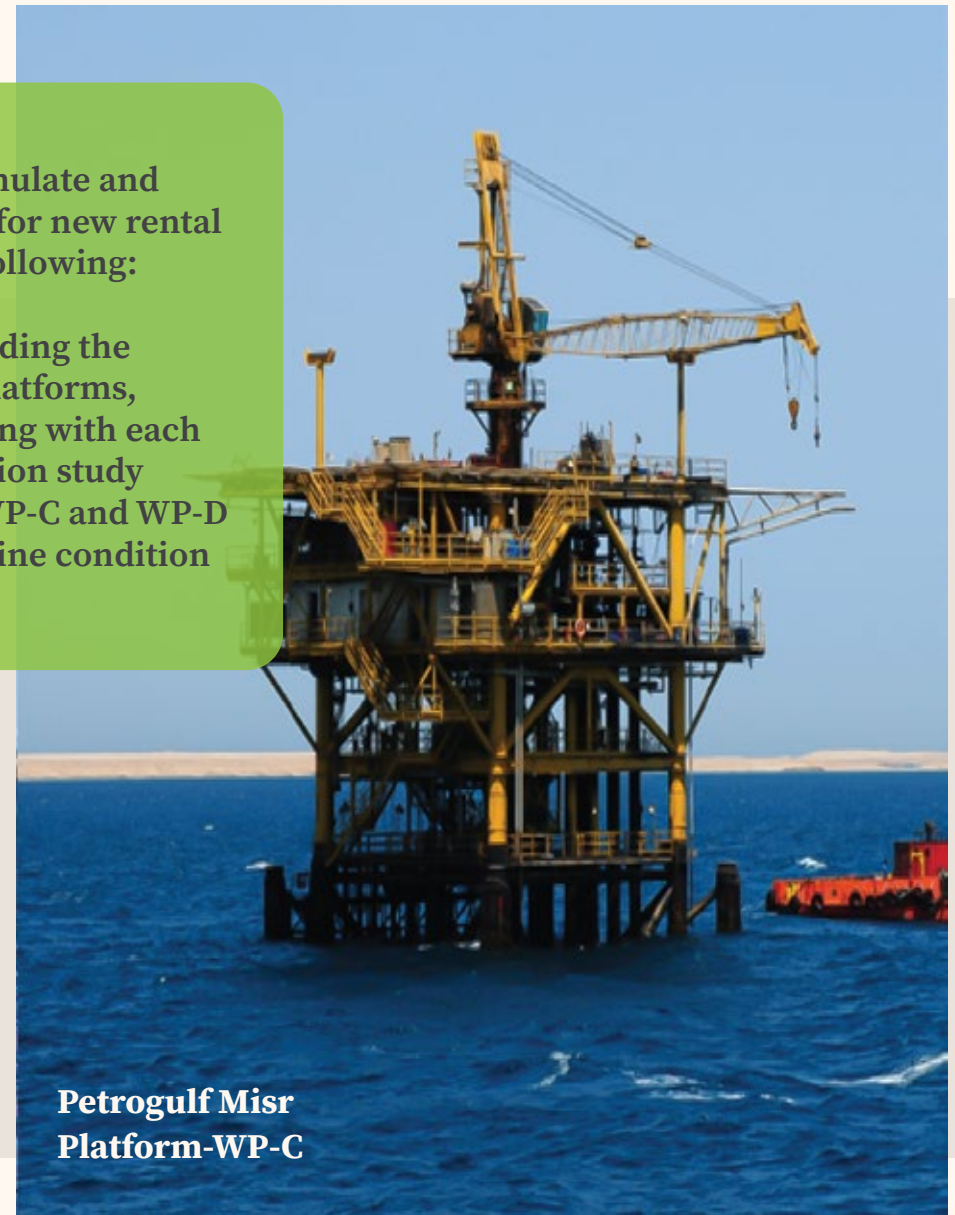
- Consultation during documents collection and arranging for final issue of HSE case documents.
- HAZOP Study for CPS SIL for CPS facilities

DIAR team started to simulate and study proposed alternatives for new rental flare location based on the following:

Hydraulic calculations regarding the pipelines between the two platforms, Flare system utilities matching with each case and radiation & dispersion study output, Available space on WP-C and WP-D platforms and Existing pipeline condition for each platform.

**2- DIAR team will start to simulate and study proposed alternatives for new rental flare location based on the following:**

**Hydraulic calculations regarding the pipelines between the two platforms, Flare system utilities matching with each case and radiation & dispersion study output, Available space on WP-C and WP-D platforms and Existing pipeline condition for each platform.**



**Petrogulf Misr  
Platform-WP-C**

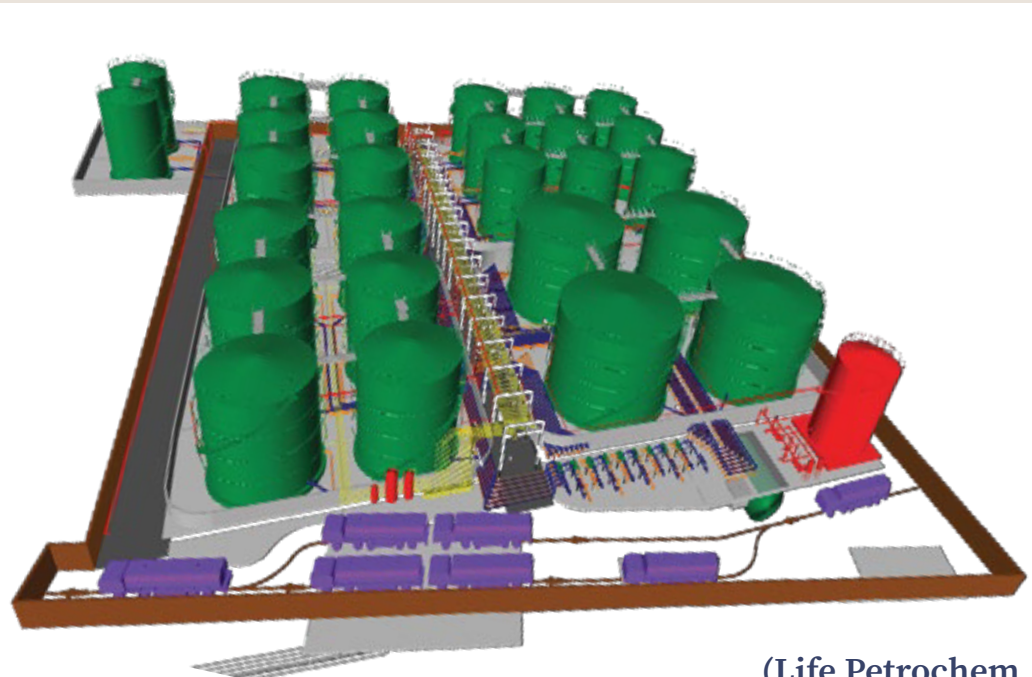
# Chemical Storage

## New Horizon Tank Terminal

### West Port Said Port, Egypt

(Life Petrochem Port Said)

Life Petrochem intends to erect a tank terminal that spans over 11,000 m<sup>2</sup> in West Port Said. The terminal consists of 30 petrochemical storage steel tanks in addition to one Fire Water steel tank.



(Life Petrochem Port Said)

### NEW HORIZON TANK TERMINAL

An Egyptian Tank Terminals Company serve all Liquid bulk market specially the Chemicals bulk companies in Egypt and all over the world. They Provide an excellent service by store bulk chemicals in thier Tank Terminal



The Terminal includes also an administrative building, technical building, substation, and guard room.

Life Petrochem invited Diar Consulting Group to perform the basic and detailed engineering for the process and the areas of the building.

# Whisby Site 2022

## Turnaround Plan - Delta source

Scope: Engineering Services

Package: Industrial

BritNRG Limited, London, is committed to managing its well operations in a safe, environmentally responsible, and technically efficient manner.



In order to achieve this, a Turnaround Plan has been put in place to renovate the Whisby Site to bring it to the current standards of safety and Efficiency in terms of its control systems as well as its electrical and process installations and instrumentation.

- The Scope of the Turnaround Plan also includes civil and layout changes that will facilitate the production on site.
- Diar start to do the As built and required modifications to achieve the required target.

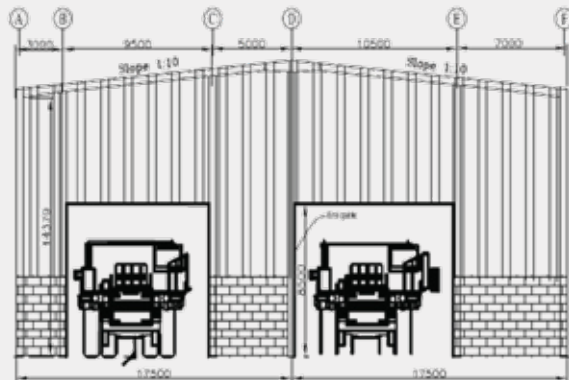
# Sukari Gold Mines Marsa Alam, Egypt

Sukari Gold Mines intends to build its own lubricants facility located in Marsa Alam, which “Shell” will supply with the final product of its current facility.

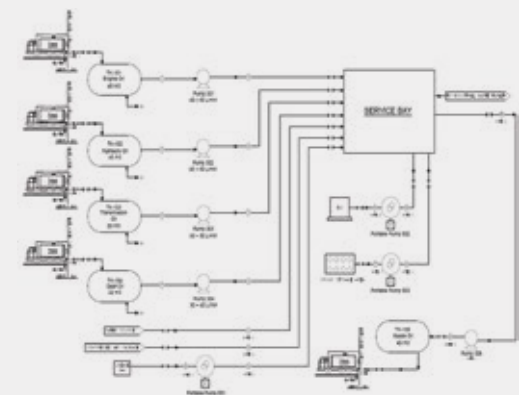
Tank area operation will supply their workshop area at three different points, loading and unloading. The workshop plant will contain five tanks of different types of oil (transmission, used, hydraulic and grease) with a volume ranging from 20 to 40 tons. There will be 4 manifolds (two for service and two for fuel) supported by 5 pumps, rods and desks shown in the table.



Sukari Golden Mines  
Marsa Alam, Egypt



Tank Name	ID (m)	Length (m)	Nominal Capacity (m3)
Storage Tank Engine Oil - 101	3	6.4	45
Storage Tank Hydraulic Oil -102	3	6.4	45
Storage Tank Transmission Oil -103	2.1	6.4	22
Storage Tank Gear Oil -104	2.1	6.4	22
Storage Tank Waste Oil - 106	3	6	40



# SHELL LUBRICANT EGYPT PLANT EXPANSION

## **This should cover (but not limited to) the following:**

- Installing 2 new storage tanks with nominal capacity of ~ 250 ton/each.
- One will be accommodating Additives LUBAD 1397 and other accommodating GTL base oil.
- Installing a dedicated pump for each tank.
- Installing process & utility Piping and pipe racks/supports required to serve all new facilities.
- Installing 8" HDPE Storm water/ oily water Drainage line for the two tanks & shredder, and tie-in to existing oily system.
- Installing required heat tracing system.
- Apply painting and insulation.
- Two Truck Sample points' collection Steel structure platforms.



FEED & Detailed engineering services  
Design for LOBP 6th October  
Plant including the following:

- Process Engineering
- Piping Engineering and 3D modeling
- Instrumentation and Control
- Electrical Engineering
- Mechanical and Tanks Design
- Machinery

In addition to the site supervision for  
all disciplines and construction  
management by Diar consulting group.

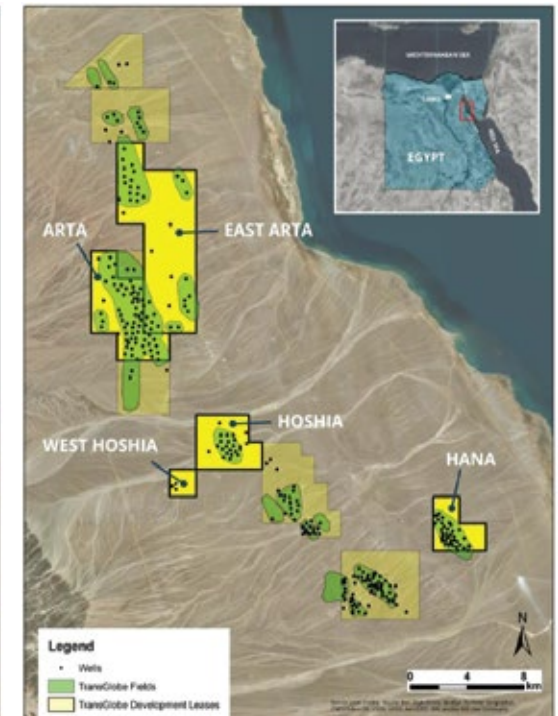
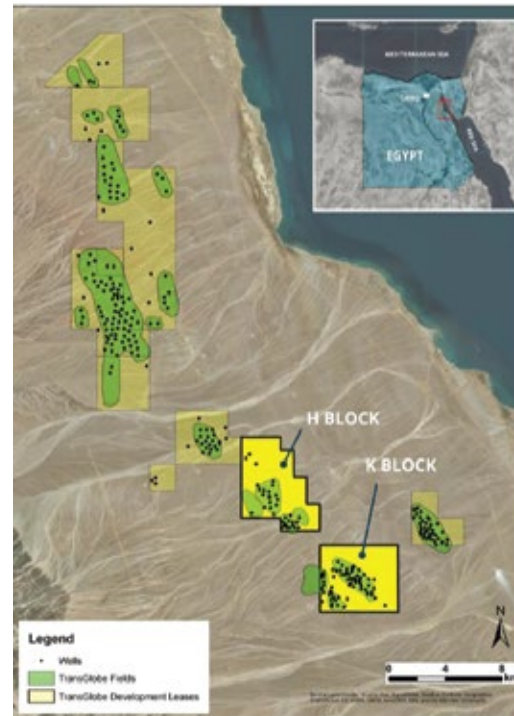


- PROJECT SOW
- Process Design Scope
- Civil Design Scope
- Mechanical Design Scope
- Piping Design Scope
- Instrumentation &
- Control Design Scope
- Electrical Design Scope

# Petrodata Westbakr

## PETRODARA WESTBAKR SCOPE OF WORK

- 1-Earthing network system for Ras Gharib fields.
- 2-Piping engineering for west bakr k-station field.
- 3- Process Hydraulic for k-station field
- 4- Civil recommendation for tanks foundation repair.
- 5- fire fighting engineering philosophy and calculations





## **Total Energies**

---

### **TOTAL Mostorod Depot Asbuilt**

Developing as built drawings with laser scanning according to codes and standards for the following:

- Tanks
- Piping
- E&I Cable Tray Routing

## **Total Energies**

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### **TOTAL - Cairo Airport Depot Earthing System - Electrical Works**

Basic and Detailed Engineering for earthing system for the following

- All equipment at the location should be connected to the earthing system (generators, panels, motor, surface units, tanks, surface pumps, etc.)

## **Total Energies**

---

### **TOTAL Alexandria Depot**

FEED Review and detailed engineering for Alexandria Depot buildings. The scope covered the review on FEED performed by French consultant SOFRESID and to perform the detailed Engineering and 3D modeling for the new depot buildings as phase I of the project. Phase II will include the FEED review and detailed Engineering for the Depot storage facilities, tanks and loading arms.

## **Total Energies**

---

### **TOTAL APPT**

Review for detailed Engineering which executed by contractors as follow:

- Detailed Engineering for piping, tanks, and steel structure support for piping.
- Detailed Engineering for E&I
- Detailed Engineering for Civil and MEP.

## **Total Energies**

---

### **TOTAL Mostorod Depot**

Mostorod Depot steel structure assessment and modifications for the main loading canopy after tank incident at Mostorod-2 Depot. The assessment scope included the following:

- Steel structure modeling and evaluation
- Detailed demolition drawings
- Modifications drawings
- Final BoQ, ITB and Construction Scope of Work Package
- Construction Supervision (Dismantling, fabrication and erection)

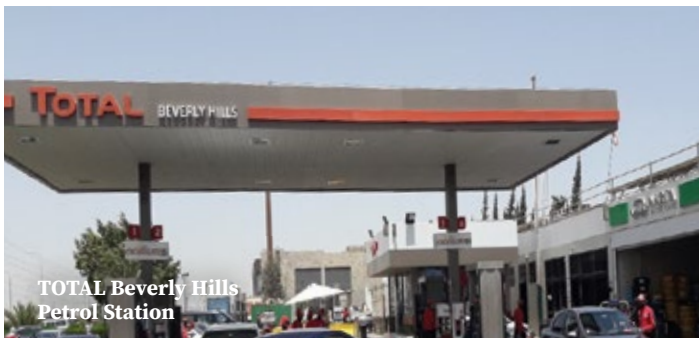
# Katamiya Fuel Station, El-Shorouk Fuel Station, Beverly Hills Fuel Station, ACUD, Fuel Station



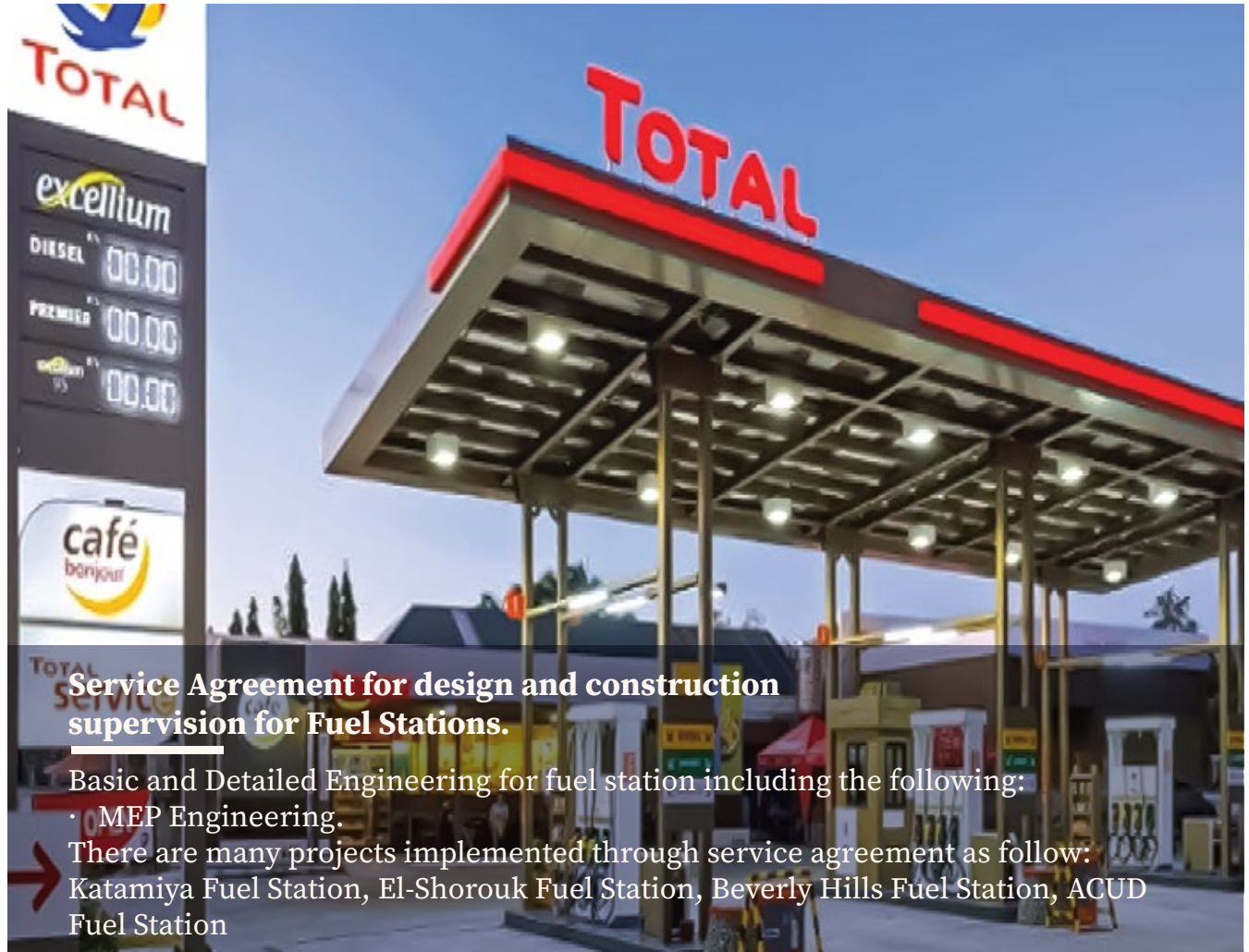
TOTAL New Shorouk Petrol Station



TOTAL New Capital Petrol Station



TOTAL Beverly Hills Petrol Station



## Service Agreement for design and construction supervision for Fuel Stations.

Basic and Detailed Engineering for fuel station including the following:

- MEP Engineering.

There are many projects implemented through service agreement as follow:

- Katamiya Fuel Station, El-Shorouk Fuel Station, Beverly Hills Fuel Station, ACUD Fuel Station

## **Total Energies**

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### **Suez Depot Egypt**

Firefighting System Assessment for Total Suez Depot. The subject covers the engineering works for the Firefighting Fields.

engineering services deliverables:

- Fire Fighting hydraulic calculations.
- Fire Fighting Drawing.
- Water Demand calculation

## **Egypt Gas**

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### **(Ashmoun City)**

MEP design and Detailed engineering for the new pressure reduction station in Ashmoun.

## **Egypt Gas (New**

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### **Salheya City)**

MEP design and detailed engineering for Egypt Gas's new admin building in New Salheya City.

## **Gastec**

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MEP design and detailed engineering for GASTEC new admin building and store in Kattameya

## **EMethanex**

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Detailed design and fabrication drawing package for the new sulphuric tank at EMthanex plant in Damietta.

## **Agiba Petroleum**

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### **Company / EMC**

Engineering Service Agreement for Agiba Petroleum Company. The subject agreement covers the engineering works for the following Agiba Fields:

- Meleiha,
- Raml and
- Zarif

## **ENAP**

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Well head Feasibility and Conceptual Study for flared gas utilization and power generation options Evaluation at East Ras Qattara Concession.

# Waste Heat Recover Power Plant, Helwan Cement

## SCOPE OF WORK

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### 1. Firefighting Works:

- Firefighting design drawings for the control section in the STG building.
- Firefighting design drawings for the turbine section in the STG building.
- Special fire suppression system design needed for electrical and control rooms.
- Pump room and related tank design drawings.
- Preparing BOQ and specification of the designed systems.
- Verification of the firefighting systems as of tie-in point to the turbine building
- Recalculate the fire system as of pump head and flow with related specifications



The Client is working on an IN-HAND project of a Waste Heat Recovery power plant for Helwan Cement Factory and has invited Diar Consulting Group to design the FF system for the STG building

### 2. Fire Alarm Works:

- Fire alarm design drawings for the control section in the STG building.
- Fire alarm design drawings for the turbine section in the STG building.
- Special fire detection suppression system design needed for electrical and control rooms.
- Pump room and related tank design drawings.
- Preparing BOQ and specification of the designed systems

# EL-GALALA WASTE WATER PLANT PROJECT

## Project description

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Galala wastewater treatment plant is Mega treatment plant which serve new El-Galala city as this plant can treat around 40,000 m3 of wasting water per day to allow this water to be reused in irrigation facilities.



## Scope of work

Diar scope of work is an EPC contractor to design, supply, install, test and commission the air stainless steel pipelines of the FCR building including its fitting, supports, bolts and all related accessories according to project specifications and standards.



Solid foundations  
for a **Brighter Future.**



## DIAR OLD PROJECTS

(INDUSTRIAL, OIL&GAS PROJECTS)

EGYPT AND MENA REGION PROJECTS

[WWW.DIARGROUP.COM](http://WWW.DIARGROUP.COM)

# Africa

## Substation Projects:



- Burkina Faso Zano Plant (PV 24 MWp / 20 MWac) Solar – Burkina Faso
- Primary Substation 33/11 KV – Kotobabi
- 16 MWp Solar PV Power Plants in Bokenema - Sierra Leone.
- 4 MWp Solar PV Power Plants in Port Loko - Sierra Leone
- Chipata 132 KV Substation – Zambia
- Lundazi 132 KV Substation – Zambia
- Chama 132 KV Substation – Zambia
- Eggchickeni 132 KV Substation – Zambia
- Mwasemphangwe 132 KV Substation – Zambia
- Installation of new 3 x 90 MVA Transformers at Kafue - Zambia

- Emergency Power Project Camama – 100 MW – Angola.
- Emergency Power Project Morro Bento – 50 MW – Angola.
- Mauritania Lot 1 90kV substations – Mauritania.
- Juba Solar Plant (20 MWp Solar PV + 35 MWhr Battery Storage) Project – Sudan.
- Burkina Faso Yellen Project OUGA-NO 90/33 KV Substation – Burkina Faso



## Industrial and Oil&Gas Projects



- Serioplast new factory at October City – Egypt. (8000 m2)
- P&G Instrument air network for new Fairy lines – P&G Cairo Plant – Egypt
- P&G External Site Standard Items – P&G Cairo Plant – Egypt
- P&G steel shed – P&G Cairo Plant – Egypt
- P&G Design pre-weight for lines injection – P&G Cairo Plant – Egypt
- P&G Instrument air sweet project – P&G Cairo Plant – Egypt
- P&G Design new filter and dust fans relocation project – P&G Cairo Plant – Egypt
- New Shoot Modification project
- Stack rehabilitation project
- Disouq Field Development Project - FEED design for Gas compression

- Sudan LPG Feasibility study.
- Two LPG Revamps and new, at UAE.
- Egypt LPG plant.
- LPG extraction plant in Midor on Technip Company.
- North Middle area Gas exploitation project

- Station and treatment Plant – Client: RWE.  
Location: Egypt

- Power Generation Station at Disouq – RWE – Egypt

- Cammama Power plant – El Sewedy – Angola

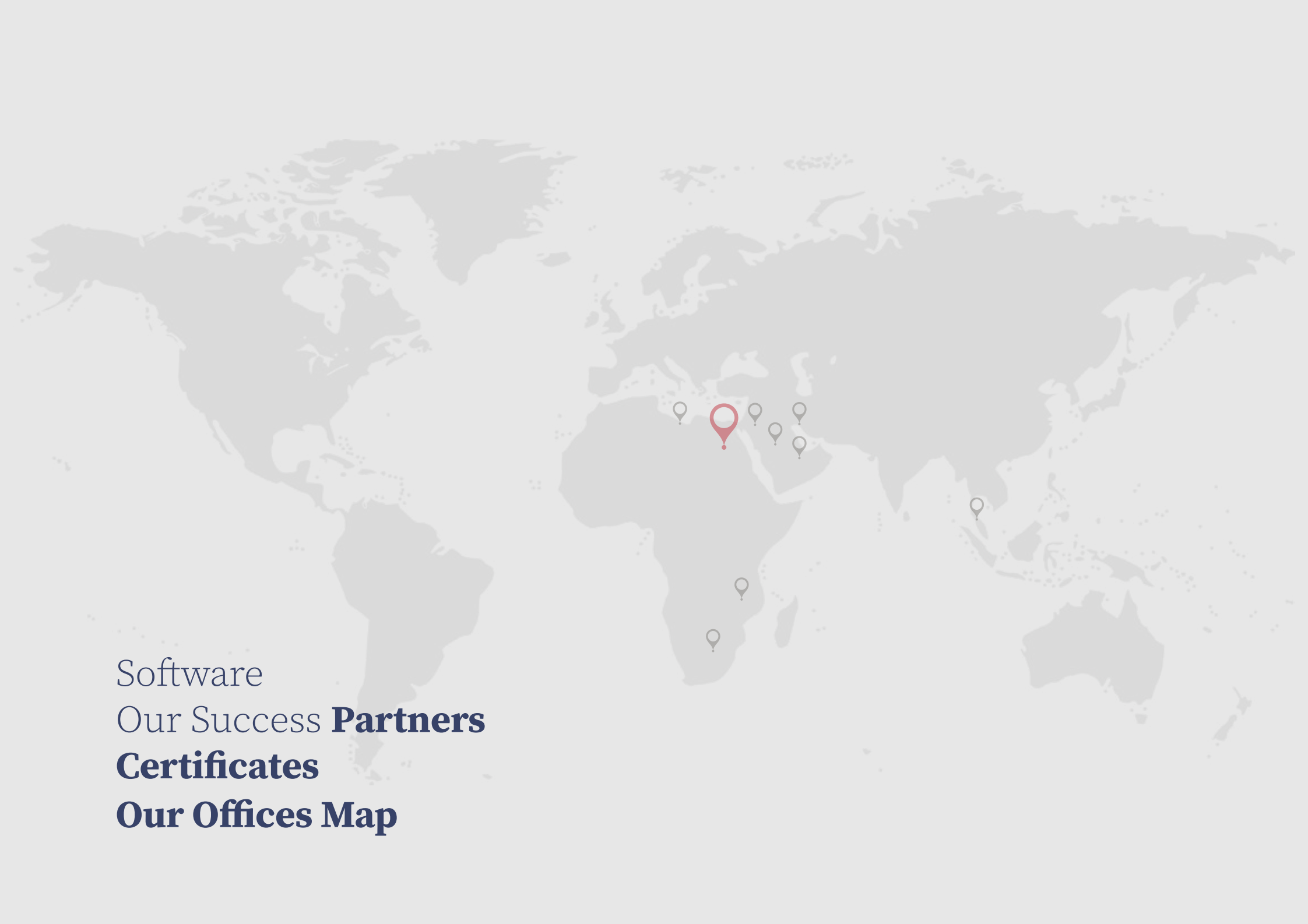
- Morropono Power plant – El Sewedy – Angola

- Water treatment Plant - Control System for Zone 6 - El-Ehsa, Location: KSA.

- Maghraby Factory - Location: Egypt.

- Water Pipeline – Cathodic Protection,  
Location: KSA.





Software  
Our Success **Partners**  
**Certificates**  
**Our Offices Map**

# Software

"At Diar Consulting Group, we leverage cutting-edge software to deliver exceptional engineering solutions. Our expertise spans a range of industry-leading tools, enabling us to optimize design, improve efficiency, and achieve optimal project outcomes."

<b>Electrical</b> Software					
<b>MEP</b> Software					
<b>Instrumentation</b> Software					
<b>Process</b> Software					
<b>Piping</b> Software					

# Our Clients, Partnerships and Collaborations



## Partnerships



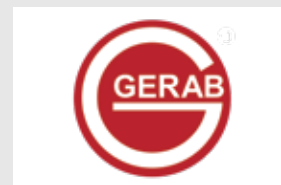
Meticulous, USA



Bechtel, USA



ZAVKOM, Russia



GERAB, UAE

## SUCCESS PARTNERS

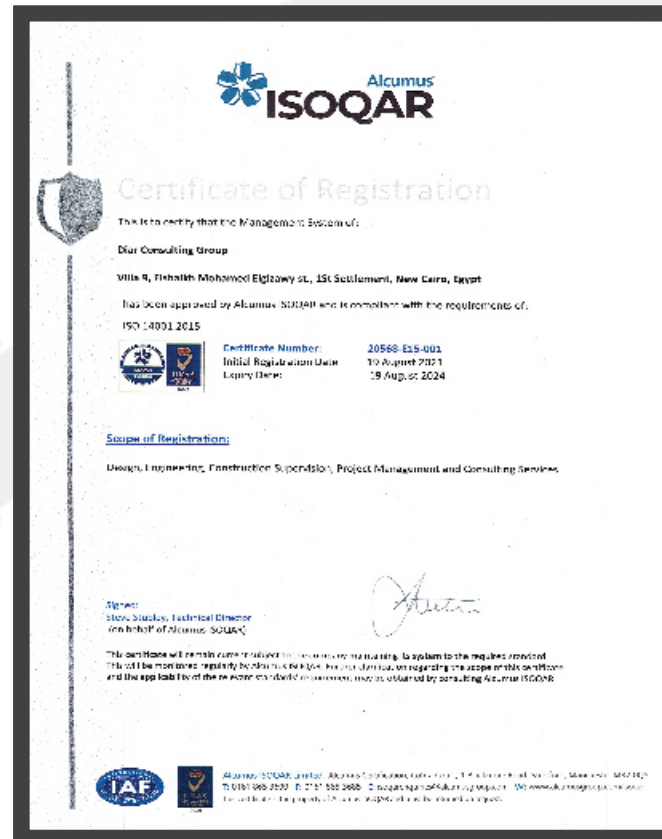
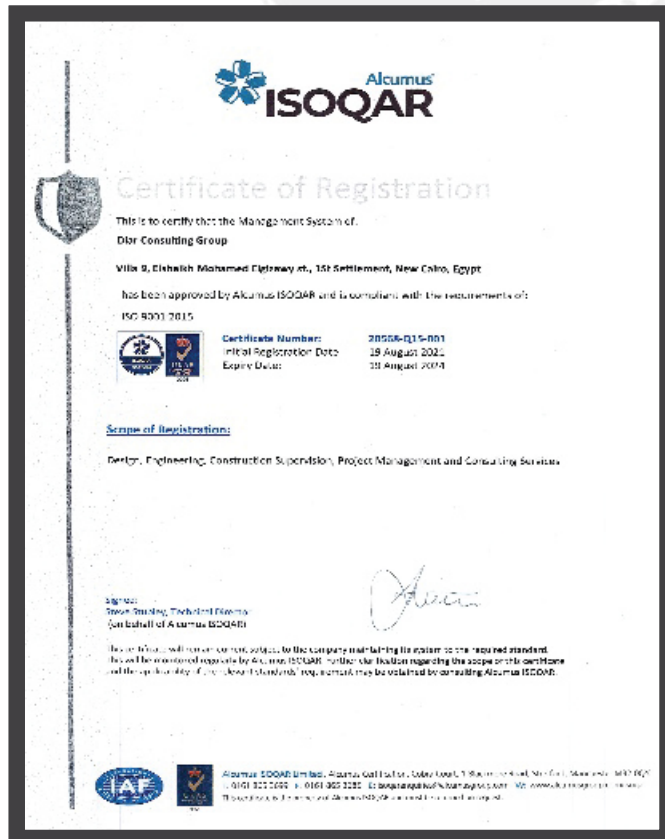
Since our foundation, Diar has established successful business relationships with many international business partners, completing projects of massive scales and following through on its commitment to safety, value creation, optimized solutions and responsiveness. Diar's clients expand across the entire globe with landmark projects.



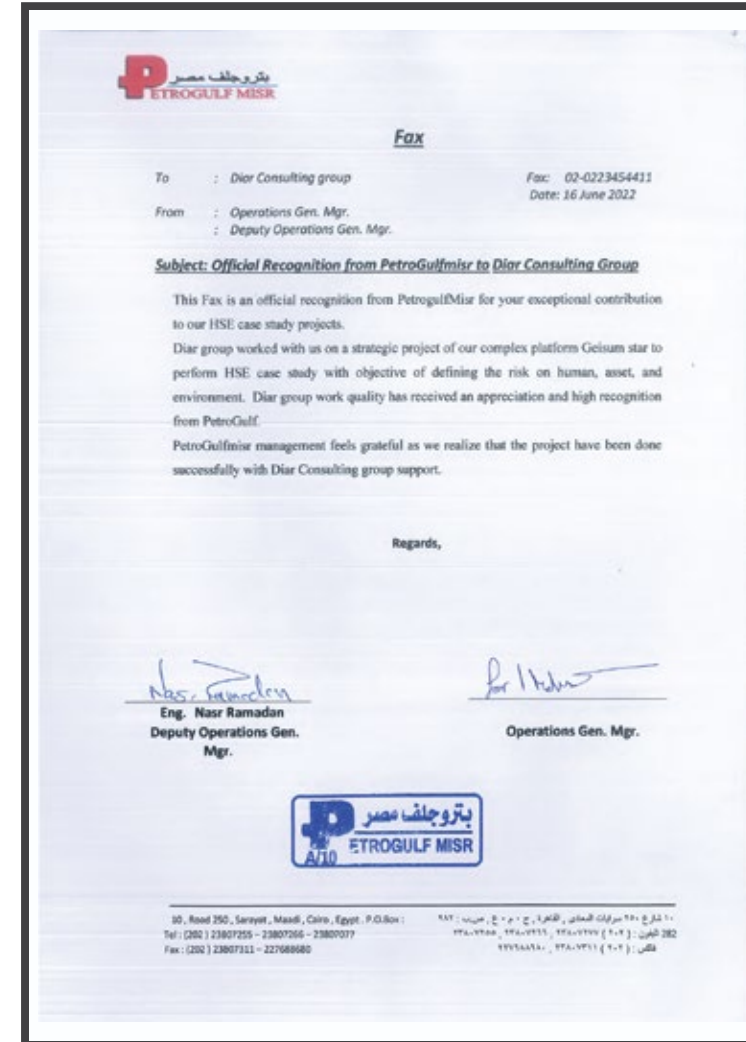
# Certifications

Out of international / national interest of the quality, environment and occupational health & safety and in line with Egypt's vision 2030 for achieving sustainable development and the company interest with the customers satisfaction and continual improvement, Diar has the leadership in obtaining certificates of international standards for:

- Quality Management Systems (ISO 9001)
- Environmental Management Systems (ISO 14001)
- Occupational Health & Safety Management Systems (ISO 45001)



# Certifications



These certifications and Clients Appreciations demonstrate our commitment to excellence and expertise in various engineering disciplines, and showcase our ability to deliver high-quality and reliable engineering services to our clients.

# Certifications Clients Appreciation

We are incredibly grateful for the opportunity to work with such esteemed clients. Your trust in our expertise has been instrumental in our success. These certificates are a small token of our appreciation for your partnership and the mutually beneficial relationships we have cultivated.



# Our Offices Map

Diar has successfully completed hundreds of projects all around the world, We operate throughout he surrounding region using the combined resources to serve public and private clients in the infrastructure, buildings and Oil & Gas sectors..



Egypt (Head Office), UAE, KSA, Bahrain, Oman, Algeria, Oghanda, South Africa, Singapore, Armenia, Mauritania Burkina Faso



EGY Add. (Head Office)  
Villa 9, El Shaikh Mohamed El Gizawy  
street Zone 9 - 1st Settlement,  
New Cairo - Cairo, Egypt

UAE Add.  
RAKEZ free zone, RAK, UAE

Algeria Add.  
REGUS ALGERIA (GADOUCH PROJECT  
58 LOGTS LOT 33, 35, 36,  
Algiers, 1600)



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Thank You