



Diar
Consulting Group

We provide Consultant & Engineering Services primarily
for the infrastructure, buildings and Oil & Gas projects
located in Egypt and elsewhere in
the Middle East and Africa.

Profile
Company

Table of Content

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.



Our Mission, Vision, Values
Why Diar
Our Team Culture



Integrity, accountability, diligence,
perseverance, and, discipline



A Board of directors with over 40
years of experience in Different
engineering fields.



It shows the internal structure of Our
organization.



Our Mining Capabilities and Our Energy
Generation Capabilities
and Experience



Building, infrastructure,
Industrial, and Oil & Gas
and PMC Projects



Diar Old Projects in Egypt
and The MENA Region



Our Partnership with Bechtel



Our Certifications and Clients
Appreciation



Diar Offices Map in Egypt and the
MENA Region



Social Media Accounts, Website
and Our Contacts.

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

Real Estate services without difficulties

To provide engineering and consulting services (design & supervision) for the infrastructure (Civil works ,architecture and landscape), buildings and Oil & Gas projects Serving our clients locally and Regionally.

Our clients can depend on our ability to design any project from feasibility, preliminary through for construction, tender package stages.



Our Vision



Our vision is to be one of the key professional firms in the fields of Engineering & consulting services in MENA Region for the infrastructure, buildings and Oil & Gas sectors.



Our Design Principles

Design should fit the **Client Budget.**

Considering how we want to use the available resources.

Design should meet **Client Requirement**

allow the project team to explore variable options. and recommend the best option which suite and deliver the Client Requirements.

Design should meet the **Propose Target**

The Goal of engineering design is always to solve a problem.

Design should be **Applicable**

Engineering design also should be leading to improved solutions and positive outcomes.



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 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.**

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.



COMPANY STANDARDS

Health and safety is more than just a mantra at Diar; it is a driving force behind every element of our business operation. We have a genuine commitment to conserving the natural environment, where we are recognized as leaders in our field.

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.

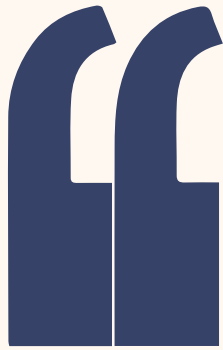




Making
your Vision
become a **Reality**
is our **Specialty**

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





A CLOSE LOOK AT
DIAR CONSULTING
GROUP



Meet our Board of Directors

GREAT TEAMWORK IS THE ONLY WAY WE CREATE THE BREAKTHROUGHS THAT DEFINE OUR CAREERS.



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



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



OSAMA FAWZY

OPERATION MANAGEMENT
DIRECTOR (UAE)

30 YEARS OF EXPERIENCE (QHSE/ OPERATIONS AND GENERAL MANAGER), GENERAL MANAGEMENT AND OPERATIONS MANAGEMENT



SAMIR ANWAR

I&C DIRECTOR

TAREK HAS OVER 45 YEARS OF EXPERIENCE IN OIL AND GAS, PLASTIC, AND DETERGENTS INDUSTRIES.



AHMED BAKR

MINING SPECIALIST

MORE THAN 30 (THIRTY) YEARS OF EXPERIENCE IN THE FIELD OF EXPLORATION, PRODUCTION, TESTING OF PHOSPHATE MINING (OPEN CAST AND UNDERGROUND TUNNELS PRODUCTION) AND ROM (RUN OF MINE).



TAREK AKL

PROCESS DIRECTOR

HE HAS MORE THAN 30 YEARS OF EXPERIENCE IN PROJECT MANAGEMENT AND ENGINEERING MANAGEMENT.



HASSAN MOHAMED

MECHANICAL DIRECTOR

FORTY (45) YEARS' EXPERIENCE IN THE DESIGN AND PROJECT MANAGEMENT OF OIL/GAS, REFINERIES.

Meet our Board of Directors

GREAT TEAMWORK IS THE ONLY WAY WE CREATE THE BREAKTHROUGHS THAT DEFINE OUR CAREERS.



TAREK ADLY

HSE DIRECTOR

MR MAHMOUD IS AN ENGINEERING DIRECTOR WITH EXPERIENCE SPANNING 18 YEARS IN THE DESIGN AND MANAGEMENT ENGINEERING SECTOR



BIESHQY WAGDY

CONSTRUCTION DIRECTOR

MORE THAN 15 YEARS EXPERIENCE IN PROJECTS CONSTRUCTION SUPERVISION /DESIGN SPECIFIC TO THE MECHANICAL / PIPING ACTIVITIES IN FIELDS OF OIL& GAS, POWER GENERATION, INDUSTRIAL, AND RESIDENTIAL



MOHAMED AZZOUNY

CIVIL DIRECTOR

PH.D. CIVIL ENGINEERING STRUCTURE DIVISION



MURAD EL ORABY

PIPING DIRECTOR

45 YEARS OF EXPERIENCE IN PIPING ENGINEERING ACTIVITIES\COMMENT PROJECT DOCUMENTS



GAMAL DAWOOD

ELECTRICAL DIRECTOR

40 YEARS OF EXPERIENCE IN OPERATION, MAINTENANCE, AND CONSTRUCTION OF ELECTRICAL & INSTRUMENTATION SYSTEMS/EQUIPMENT, ENGINEERING MANAGEMENT, CONSTRUCTION, INSTALLATIONS, COMMISSIONING OF THE OIL AND GAS FIELDS/PLANTS



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

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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



Hany Nabil

Managing Director,
Ph.D, M.Sc

Mr. Hany Nabil is the Managing Director of Diar Consulting Group, a leading Consultant Engineering firm servicing primarily the Infrastructure, buildings and oil & gas sectors in the MEA region. Since 2011, he leads a team of highly qualified specialists with extensive practical experience providing a wide range of engineering services in different industries.

Mr. Nabil has over 18 years of post-degree experience, having worked on numerous local and International projects.



Previously, he worked with one of the top International Engineering design firms (WorleyParsons)

as well as one of the world's well-Established and recognized consulting Organizations (Dar Al-Handasah)

(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



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. He is self motivated and experienced in working on projects in Countries including Egypt, Libya, Africa, and Saudi Arabia.

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



Previously, he worked with one of the top International Engineering design firms as Senior Instrument and Control Engineer (WorleyParsons)

He worked with one of the top EPC company as a consultant on El sewedy Electric Transmission and Distribution (EETD)

(Hill International) American construction consulting firm



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.



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.

Working Experience

HSE Consultant: Diar Group Chairman	HSE Consultant Petrojet	HSE Consultant Egypt Bahrainian Gas Company	HSE Director British Petroleum, BP
HSE Director: Gulf Petroleum Company, GUPCO HSE Shift	Team Leader: Masr for Chemical Industries		



Member and Ex-President of the American Society of Safety Engineers (ASSE)



B.Sc. in Chemistry, Faculty of Science, Alexandria University 1974



Hazards & Waste Management & Response to Emergencies, Colorado State, USA



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.

A PREVIOUS WORK EXPERIENCE Company: Diar Consultant Group (Egypt) (2021 till now) Positions: Project Manager	B. PREVIOUS WORK EXPERIENCE Company: Nilcon Group Egypt (Egypt) (2016 till 2021) Project Manager
Worked for Abu Dhabi for more than 14 years with EPSO CCC as Project Engineering Manager	ENPPI (more than 20 Years) senior process engineer engineering manager and project manager.



B.Sc. Chemical Engineering, 1980, Faculty of Engineering - Cairo University, Egypt



Gamal Dawood

Electrical Director

Thirty Eight years of experience: Six of them in the operation, maintenance, and construction of electrical instrumentation systems equipment in 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 & downstream), onshore & offshore performing in both Contractor and Client roles.

Enppi

- Senior Electrical Engineer for medium to large size projects

Abu Dhabi Marine Operating Company

- Project Engineering Leader for a major Offshore Power Systems Upgrade Project

FICHTNER- Germany (as a Freelancer)

Electrical Power Expert providing Electrical Engineering Consultation to NEOM- ENOWA in KSA Standards

ADMA-OPCO - Abu Dhabi Marine Operating Company

2002 Senior Electrical Engineer and Subject Matter Expert (SME_EL) of the Company
2004 Project Engineering Leader for a major Offshore Power Systems Upgrade Project



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.

Worley Parsons Qatar

Engineering design and PMC services for Instrumentation & Control Works in Various Oil & Gas and Mega Infrastructure Projects.

Bechtel - Abu Dhabi

Commissioning of a control system for plant utilities such as (Instrument air, N2 generation, Water cooling system, fire water pump system)

Khalda Oil Company - Egypt Gas Processing Facilities- Al Qasr Gas Facilities. Western Desert Egypt. Construction Manager



Member of Egyptian Syndicate of Engineers under registration no 8554/7 Grade (A) consulting Engineer at Qatar Municipality Committee (PEC)
I have conducted Quality assurance courses with Bureau Veritas and Lloyds to be QA/QC Auditor



Member of the International Society of Automation (ISA)



Murad El-Oraby

Piping Director

45 years experience in Piping Engineering activities including Review/Comment-projectdocuments:
 P&ID(s)-Equipment Data sheets- Instrumentation Prepare/ Issue / Upgrade Plot Plans & Area division drawings.Prepare/ Issue line list (Line Designation Table) in coordination with the Process Dept. Prepare / Issue / Check piping isometric drawings.Prepare/Issue-pipingmateri take-off(MTO),technical documentsfor piping material

Worleyparsons Resources & Energy
PIPING ENGINEERING CONSULTANT

Company : Chicago Bridge & Iron (Cb & I) Cairo Office
PIPING ENGINEERING CONSULTANT

TECNICHEM FOR TECHNICAL SERVICES
SENIOR LEAD PIPING DESIGN ENGINEER

Air Liquide - (Egypt Branch)
SENIOR LEAD PIPING DESIGN ENGINEER



Basem Sanad

Buildings and Infrastructure Director

Bassem has over 18 years experience in the MEP experiences in multi-skills projects (UAE & Qatar & Egypt). Reviewed MEP projects design documents, and tender documents, followed up construction, and handed over for several projects with MEP budgets that ranged from 50 million to 20 billion

Company:
ELECTROMECHANICAL ENGINEERING (QATAR)
 (2015 till Nov. 2021) - 7 years - UPDA Grade A
 Positions: Sr. Mech. Eng / Tech. / const. Manager

Company: **ELITE DESIGN. (ABU DHABI)** (2012 - 2015) - 3 Years
 Positions: Sr. Mechanical Engineer/ lead MEP engineer

Company: **ALSHAFAR GROUP (DUBAI-UAE)** - 7 Years
 Positions: Sr. Mechanical Engineer



Bachelor of Engineering, Power Mechanical Engineering in 2005 - Syndicate: Mansoura University - Egypt



Hassan Hassan

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.

Company: **Worley Parsons Services Pty Ltd Egypt Cairo**
Title: Mechanical Consultant Engineer

Part-Time Instructor Cairo University Mining Studies and Research Center (Now)

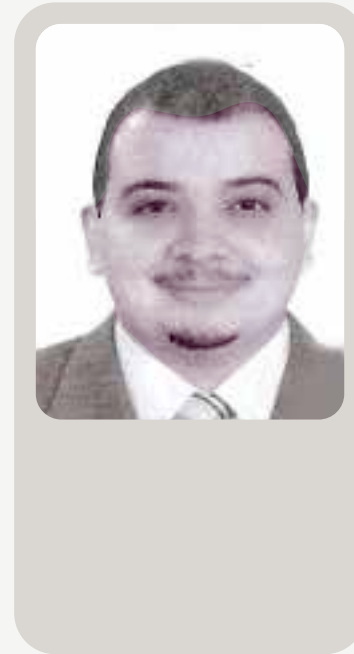
Company: **AL FURATE OIL PRODUCTION CO. - Syria**
Title: Training Instructor

Company: MIDOR OIL REFINERY - Alexandria 2002-2007
Title: Mechanical Construction & Commissioning Consultant

Company: **UMM SAID REFINERY- Qatar State**
Title: Refinery Maintenance Sector Manager



B. E. Mechanical Engineering
 Ain Shams University Cairo,
 Egypt 1966
 Engineering bases used



Mohamed Al-Azzouny

Civil Director

- PHD Civil Engineering Structure Division, Ain Shams University Faculty of Engineering.
- Non-Linear Response of Columns Strengthened By Non-Symmetric Concrete Jackets under Eccentric Vertical Loads. Using the ANSYS program.
- The PHD Thesis was Supervised & Accepted from Hannover University, Germany.
- M.Sc. Civil Engineering Structure Division (2008), Ain Shams University Faculty of Engineering.

BO ISLANDS project,
BO Island is a prestigious project located in the North Coast, Egypt. The project is a tourist and luxurious living on a plot area of 10.5 Million m2.

The four main stations Haramain High Railway project. (Saudi Arabia). The project was designed by FOSTER & BURO HAPPOLD.

Luxurious retail Project
Luxurious retail and leisure development by the beach of the project.

BAQOUBA water treatment project (Biological Tank, Contact Tank, Powe House). (IRAQ)..



Ph.D. Civil Engineering Structure Division, Ain Shams University Faculty of Engineering.

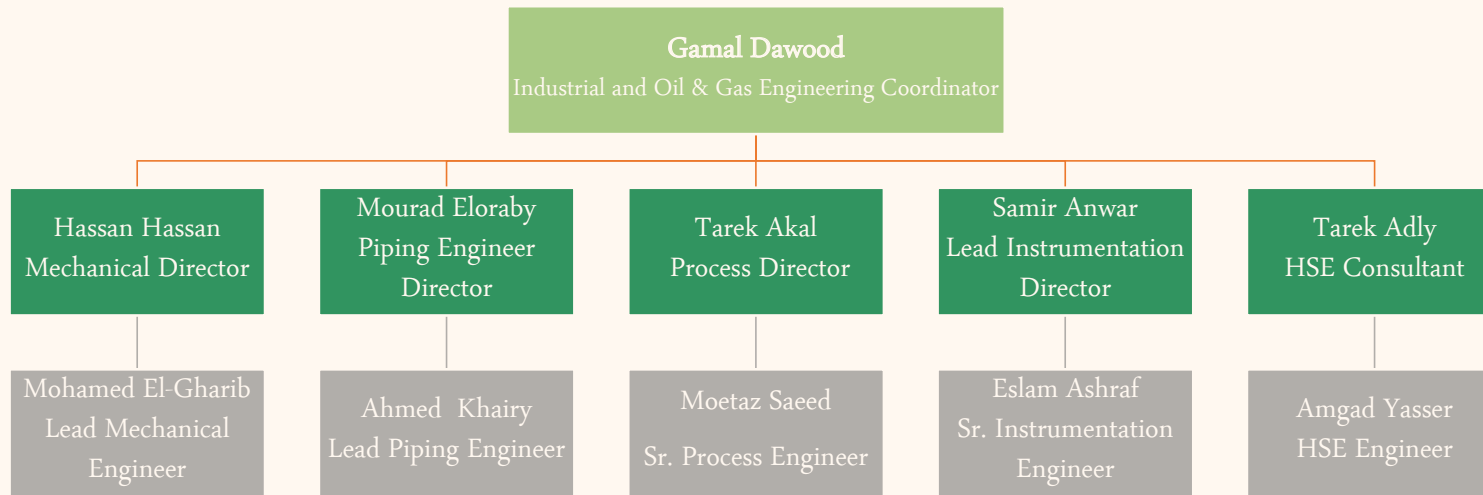
Company ORG Chart

Company Organization Chart Infrastructure & Buildings Engineering Sector



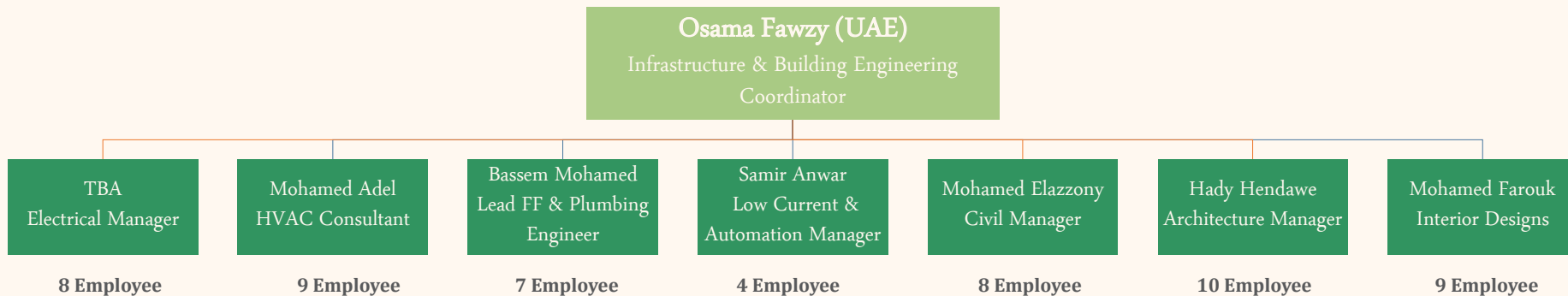
Company ORG Chart

Industrial and oil & Gas Engineering Discipline



21 Employee

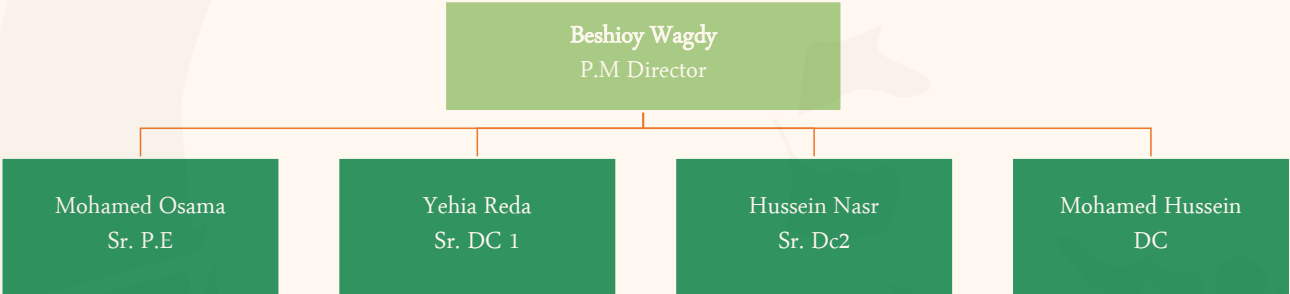
Buildings and Infrastructure Engineering Discipline



55 Employee

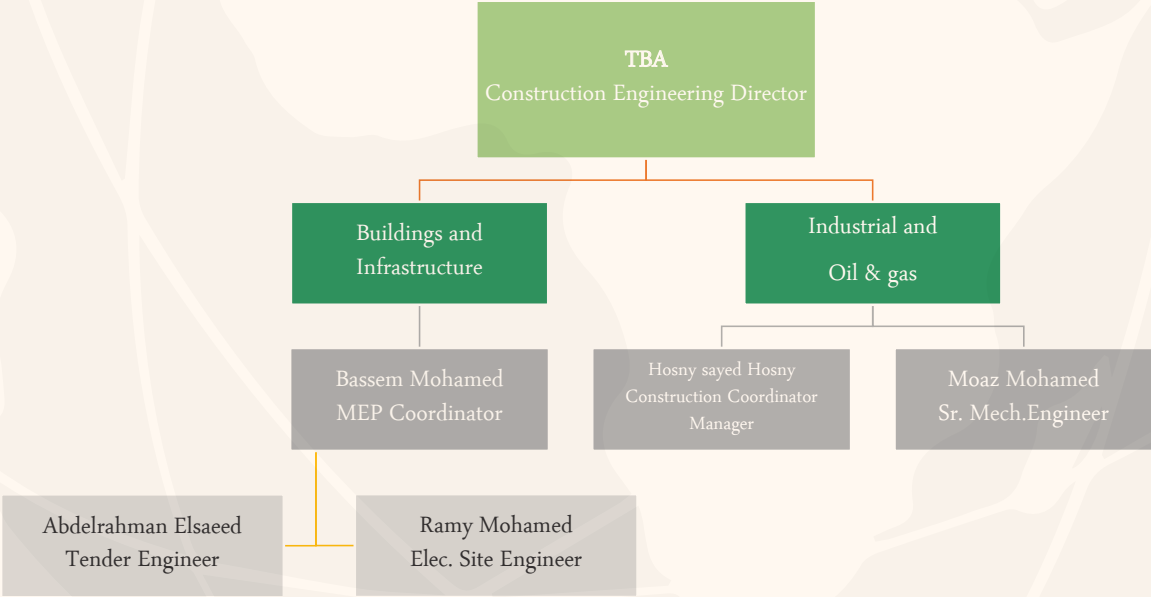
Company ORG Chart

Project Management Engineering Discipline



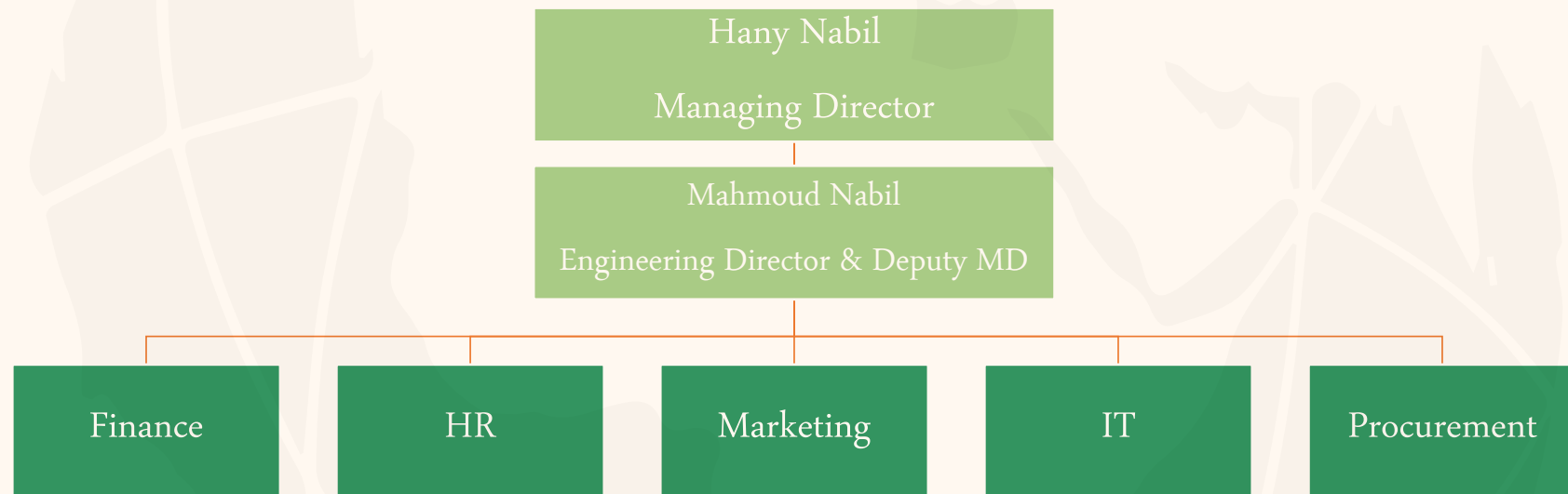
5 Employee

Construction Engineering Discipline



5 Employee

Company ORG Chart



5 Employee

A construction site at dusk with several cranes and industrial structures. A large, semi-transparent blue graphic element is overlaid on the right side of the image. The sky is a deep blue with some clouds.

Diar Consulting Group

Business Fields

**Infrastructure &
Buildings**

**Industrial and
Oil & Gas**

Business Fields

DIAR has provided reliable solutions for different types of projects: Building, infrastructure, Industrial, and Oil & Gas according to international standards.

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



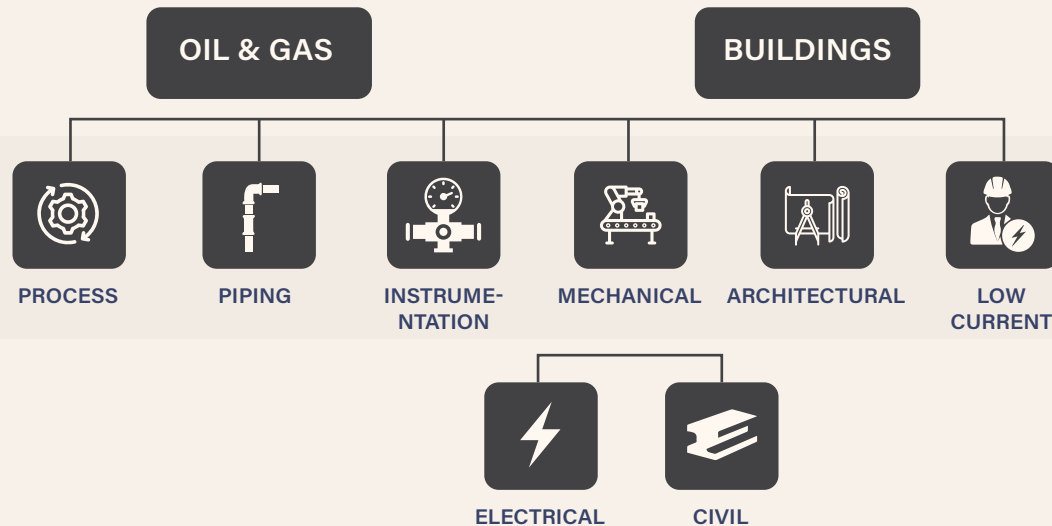
EPC CONTRACTS



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.



Engineering Disciplines

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.



Since we Started our Business in 2009, Diar always keen to be the Engineering arm for all types of companies and organization in order to drive thier idea and dream to Reality with our 8 magical Elements to success.

INTEGRITY

QUALITY

EXPERIENCE

STANDARDS

SYNERGY

EXPERTISE

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.

PHASE 01

CONCEPT SELECTION AND FEASIBILITY STUDIES

Feasibility Study:

It is an analysis into the viability of an idea. It is the initial design stage to any project or plan.

Concept Selection is an element of the design process. It enables you to pick the idea(s) which best satisfy the Design Specification.

PHASE 02

CONCEPT DESIGN

It's the point within the development cycle that typically sits between the Project requirements and detailed design.

PHASE 03

SCHEMATIC

the project team determines the areas, physical requirements and relationships of all the required building spaces and components, then confirms or revises the total building square footage and the total project budget, as well as the project schedule and occupancy dates.

PHASE 04

DETAILED DESIGN

Detailed engineering design includes the following stages: Checking specifications. Defining subsystems, checking, and assembling parts. Finalizing individual parts and accomplishing technical calculations.

PHASE 05

TENDER DOCUMENTS

The set of documents prepared by a quantity surveyor to invite bids from contractors, including drawings, specifications, bills of quantities, and contractual terms.

PHASE 06

IFC

IFC (Issued for Construction) and Shop Drawings play an important role in detailing out information about all components in a construction project. Extracting these drawings can help all involved stakeholders to speed up the project.

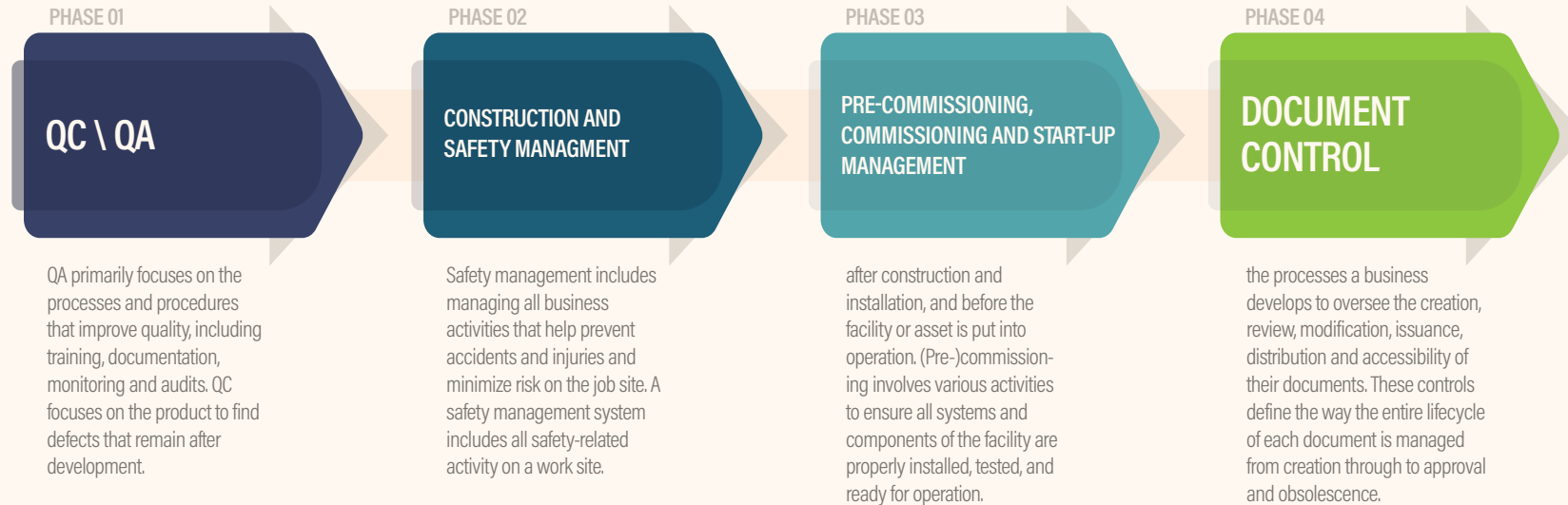
PHASE 07

PROCUREMENT SUPPORT

EPC contracting is a type of contract in which the contractor is responsible for the design, engineering, procurement, and construction supervision of a project

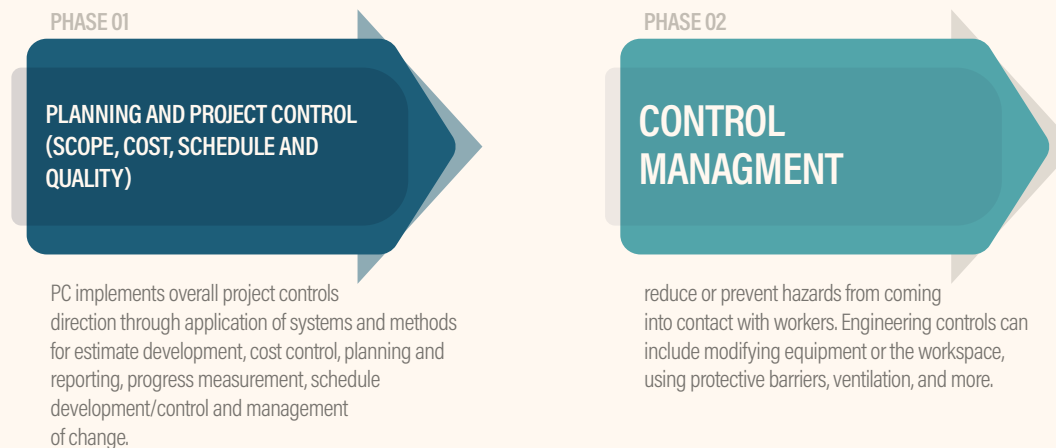
Engineering Projects Phases

Construction Management and Site Supervision



Engineering Projects Phases

Project Management Consultation



OUR ENGINEERING DISCIPLINES-DELIVERABLES



DESIGNING, DEVELOPING, AND IMPLEMENTING EFFICIENT AND SAFE PROCESSES

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

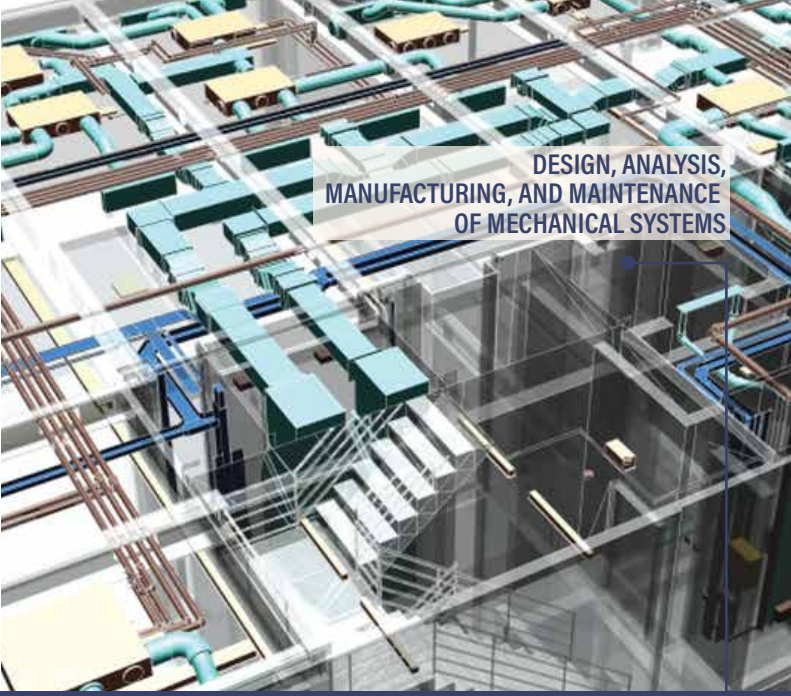


PIPING AND PIPELINE ENGINEERING



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



DESIGN, ANALYSIS,
MANUFACTURING, AND MAINTENANCE
OF MECHANICAL SYSTEMS

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.

5. ELECTRICAL ENGINEERING

- Electrical Systems' Analytical and Special studies
- Grid-Connected Power Generation Plants.
- High Voltage Grid-Connected Substations
- MV Overhead Transmission Lines
- Island and Field Interconnected Power Generation Plants.
- MV and LV Power Distribution Systems (Indoor, - Outdoor and Explosion Proof)
- Electrical Prefabricated Substations, Modules and Kiosks.
- AC & DC UPS systems
- Power Factor Improvement capacitor banks.
- Solar Power units
- Cabling and Raceways Systems
- Lighting Systems
- Grounding and Lightning Systems
- Navigational Aids
- Electrical Heat Tracing



6. LOW CURRENT

- Data.
- VOIP Telephony System or conventional PABX system.
- IPTV or MATV system.
- Audio visual system.
- Public address system.
- Fire alarm systems.
- Car parking security system.
- IP-CCTV or conventional CCTV.
- Access Control system.
- Digital Signage system.
- Master Clock system.
- Building Management System BMS.



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 walkways, 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.



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
- Stay informed on best practices for use of Revit BIM.
- Stay informed on other BIM related Software and how they work with Revit
- Installation and support of related BIM software.

LEARN.
PERFORM.
RESULTS.

Certificate of Completion

Completed

Autodesk

Autodesk

Project & Reference

Autodesk

Autodesk

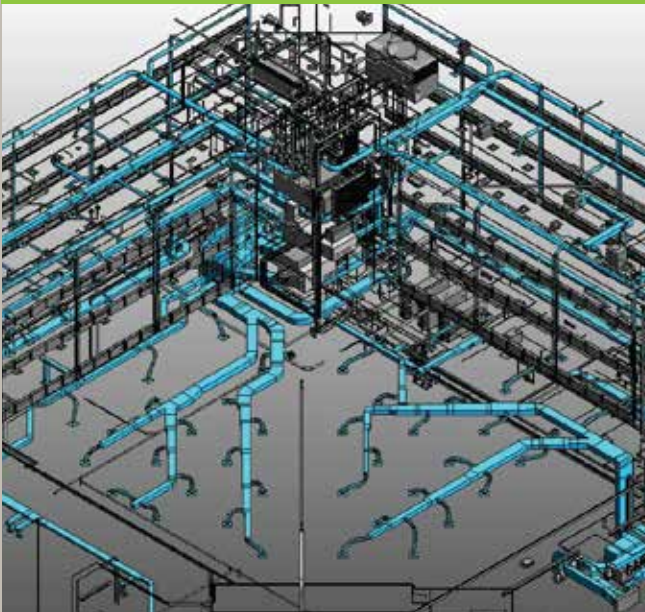


9. LANDSCAPE

- 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.



11. 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.

OUR PMC DELIVERABLES

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 litters
- Respond for all consultant contractual litters
- Monitors and alarm for all potential claims
- Prepare claim document and develop all claims



AIU	1,822 (-35)	1,857 (+35)	1,891 (+34)
MBC	3,605 (+210)	9,542 (+128)	2,609 (+35)
YBV	3,204 (-33)	5,211 (+156)	7,100 (+60)
MBB	3,320 (-120)	712 (+12)	134 (+5)



QUALITY, ENVIRONMENTAL, HEALTH & SAFETY MANAGEMENT SYSTEM



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)

The implementation of the requirements of these international standards was effectively considered in all of the company's projects and activities in all stages (design, procurement and construction supervision) through an integrated management system to monitor, evaluate and improve Diar performance in the Quality, Environmental & Safety and Customer Support Management Systems.



**DIAR
POWER GENERATION
CAPABILITIES**

Renewable Energy Generation

Main Consulting Activities

Renewable Energy

- Feasibility Studies.
- Power Generation Design.
- Renewable Energy Design.
- Quantity Surveying.
- Tender Documents.

- Project Management Support.
- Plant Configuration Analysis.
- Power Evacuation and Grid Interconnection Studies.
- Design Drawings.

- Tendering Conditions & Conditions of Contract.
- General Specifications for all trades
- Bills of Materials for all trades
- Final Cost Estimate.

1- Typical Solar Plant Design Tasks:

- Layout and Shading
- General layout
- Tilt angle
- PV Module Configuration
- Inter-row spacing
- Orientation



2- Technology Selection

- Module and inverters
- Transformers
- Mounting structures

3- Electrical Design DC System / AC System

- PV Array Design
- Inverter sizing
- Cable selection, sizing and Management

- Module and string cables
- Combiner boxes/ DC Switching
- AC switchgear
- Sizing and selecting transformers
- Plant substation

4- Grid Connection

- Protective relaying / Net metering

Renewable Energy Generation

Main Consulting Activities

Renewable Energy

5- Site Buildings

Depending on the size of the plant infrastructure requirements may include:

- Office, LV/MV station, MV/HV station and Communications Building.



6- Site Security

- Security fence, CCTV cameras and Video analytics
- Remote alarm center

7- Plant Monitoring

Supervisory Control and Data Acquisition (SCADA) systems

8- Optimizing System Design

- Shading Incident angle Low irradiance
- Module temperature
- Soiling
- Module quality and Mismatch

- Inverter performance
- AC losses
- Plant downtime



Renewable Energy Generation

Main Consulting Activities

Projects that we Take as a Reference

- Capacity : 60 MWp DC (50 MWp AC)
- PV : 340 Wp -Mono - Jinko -China
- Inverter : 6 X 2.5 MW -ABB -Germany
- Location : Zafarana -Egypt
- Owner : NAREA
- Information : On-Grid PV Solar plant in Egypt connected to Extra High voltage 220KV

- Capacity : 3 MWp
- PV : 410 Wp -Mono -TopSun -South Korea
- Inverter : 6 X 500 KW -Kaco -Germany
- Location : Gamasa -Egypt
- Owner : Qalublia Governorate
- Information : On-Grid PV Solar plant in Egypt connected to medium voltage 11KV

- Capacity : 600 KWp
- PV : 225 Wp - Poly - Trina Solar - China
- Inverter : 6 X 100 KW - Gamesa - Spain
- Location : 17Km Cairo/Suez Road - Egypt
- Owner : Arab Organization for Industrialization
- Information : The first ground mounted On-Grid PV Solar plant in Egypt connected to medium voltage 11KV and starting feed in to grid 3/11/2010.
- It is consists of 500KWp with fixed structure and 100KWp with double axis tracker from Mecasolar company (Spain).
- Design and implemented from site selection to commissioning and start up scope.

- Capacity : 350 KWp
- PV : 130 Wp - Poly - PT - China
- Charger : 20A - Western - Italy
- Battery : 120 Ah - GEL - NewMax - South Korea
- Lamp : 100 W - Anern - China
- Location : Cairo, Sharm ElSheikh and Aswan - Egypt
- Owner : Ministry of Electricity, South Sinai Governorate and Aswan Governorate.
- Information : 1345 Solar street lighting are dividing into 10 in Cairo, 877 in Sharm ElSheikh and 458 in Aswan.
- Design and supervision scope.

- Capacity : 80 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 2 X 50 KW - Kaco - Germany
- Location : Abbasia - Cairo - Egypt
- Owner : Ministry of Electricity
- Information : The first rooftop On-Grid - PV Solar plant in Egypt connected to Low voltage 400V and
- starting feed in to grid 5/12/2013.
- There are consists of 2 x 40KWp rooftop plants on separate buildings.
- Design scope.

- Capacity : 20 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 2 X 12 KW - SMA - Germany
- Location : Mansoura - Egypt
- Owner : North Delta for Electricity Distribution
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 40 KWp
- PV : 250 Wp - Poly - Aleo - Germany
- Inverter : 2 X 20 KW - Advanced Energy - Hungary
- Location : Aswan - Egypt
- Owner : Hydro Stations for Electricity Production
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 34 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 2 X 20 KW - SMA - Germany
- Location : Ismailia - Egypt
- Owner : Canal for Electricity Distribution
- Information : Rooftop On-Grid PV Solar - plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 95 KWp
- PV : 250 Wp - Poly - Jinko - China
- Inverter : 2 X 50 KW - Kaco - Germany
- Location : South Sinai - Egypt
- Owner : South Sinai Governorate
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 33 KWp
- PV : 300 Wp - Poly - LightWay - China
- Inverter : 33 KW - Kaco - Germany
- Location : South Sinai - Egypt
- Owner : South Sinai Governorate
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 40 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 50 KW - Kaco - Germany
- Location : Aswan - Egypt
- Owner : Upper Egypt for Electricity Distribution
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 17 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 20 KW - Advanced Energy - Hungary
- Location : Ismailia - Egypt
- Owner : East Delta for Electricity Distribution
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 30 KWp
- PV : 250 Wp - Poly - Jinko - China
- Inverter : 30 KW - Kaco - Germany
- Location : Sayeda Zeinab - Cairo - Egypt
- Owner : Sayeda Zeinab neighborhood - Cairo Governorate
- Information : Rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 8 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 8 KW - Advanced Energy - Hungary
- Location : Sharm ElSheikh - Egypt
- Owner : Private person on his villa
- Information : On pergola rooftop On-Grid PV Solar plants in Egypt connected to Low voltage 400.
- Design and supervision scope.

- Capacity : 2.5 KWp
- PV : 410 Wp - Mono - TopSun - South Korea
- Inverter : 3 KW - SunLight - China
- Location : Egypt
- Owner : Desert Research Center (DRC)
- Information : Portable PV solar single axis tracker for water desalination in rural area in Egypt.
- Design and supervision scope.

Renewable Energy Generation

Scope of Work

Scope of Work

- Diar provides renewable energy consulting services; we offer these services to our clients not only for photovoltaic, but also for resource preservation through cleaner power resources in design, operation, and proper construction management.
- We provide development of Environmental Policies and Guidelines, in addition to increasing capacity building for our clients.
- Diar has acquired substantial experience in different scopes of renewable energy, and it has the experience to provide technical assistance in the following fields.



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

Renewable Energy Generation

Certificates



Partnership



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

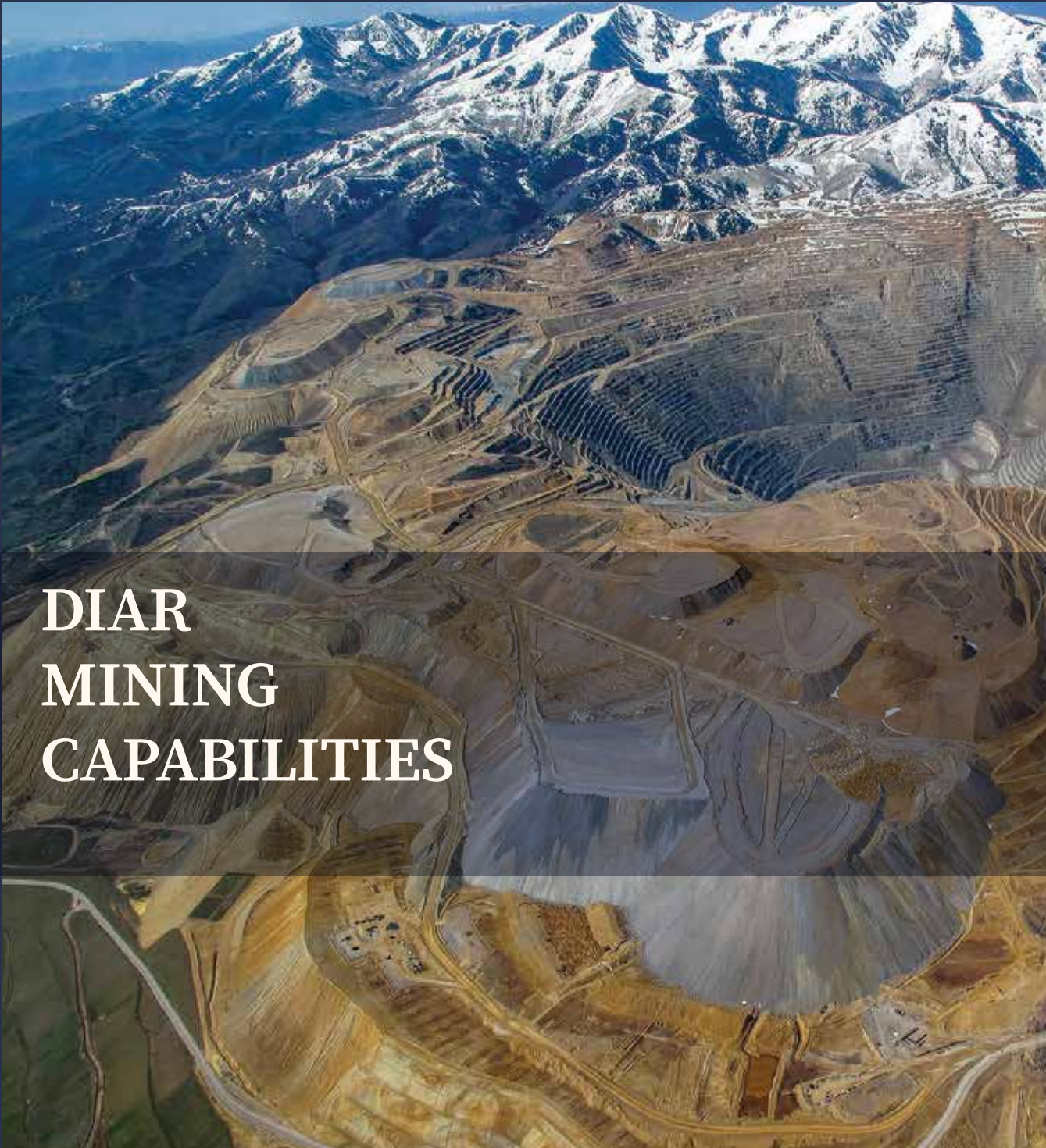


03 4 MWp Solar PV
Power Plants in
Port Loko - Sierra
Leone

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 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.





**DIAR
MINING
CAPABILITIES**

Diar Mining Capabilities

Recently, Diar has started establishing a new mining team for the extraction of phosphate and processing of industrial phosphate fertilizers.

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.

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.



DIAR MINING
CAPABILITIES

Diar 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



**DIAR INDUSTRIAL
PHOSPHATE
FERTILIZERS
CAPABILITIES**

■ 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.



PARTNERSHIPS

**The Partnership
between Bechtel
and
Diar Consulting
Group will Enable
both
companies to Leverage
their Respective
Strengths and Expertise
in The Engineering**



Together, Bechtel and Diar Consulting Group will provide comprehensive engineering services to clients across various industries. This includes designing and developing engineering solutions that meet client requirements, providing procurement support to ensure timely delivery of materials and equipment, supervising construction activities to ensure quality and safety standards are met, and managing projects from start to finish.

The partnership will also enable both companies to expand their reach in the Middle East region by combining their local knowledge and expertise.



SCOPE OF WORK

Bechtel intends to cooperate with Diar Consulting group for engineering services including but not limited to engineering designs, procurement support, construction supervision, and management.

The scope of services in detail, which includes as a minimum the following:
Works to be performed in detail:

- Engineering (Basic / FEED / Detailed / Procurement support / Construction management ... etc.)
- Concerned disciplines for the scope (Process, piping, Mechanical, Electrical, instrumentation/Telecom, Architecture/Civil, Geotechnical, HVAC/ firefighting/Plumbing, HSE ... etc.)

A photograph of an industrial facility at night, featuring large cylindrical tanks, pipes, and a tall chimney stack. The scene is illuminated by artificial lights, creating a dark, moody atmosphere. The image is overlaid with a semi-transparent dark blue rectangle containing text.

DIAR PROJECTS

PMC PROJECTS (INDUSTRIAL PROJECTS)

Project Management Consulting Projects



Project Management Consulting Industrial and (oil & Gas)

1- ACFC - Integrated Phosphates Project

AC Fertilizer Company, Joint stock company under Algerian law created to develop the integrated phosphates Project (PPI) which consists of the development, exploitation of the deposit, the enrichment of phosphates of the deposit of Bled El Hadba/ wilaya of TEBESSA, Algeria

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.

ACFC - Integrated Phosphates Projects

AC Fertilizer Company, Joint stock company inder Algerian law created to developpe the integrated phosphates Project (PPI) which consists of the development, exploitation of the deposite, the enrichment of phosphates of the deposit 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.

THE PROJECT VALUE IS (8) BILLION USD



ACFC

شركة آي سي للأسمدة
AC Fertilizer Company

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 their enrichment, chemical transformation of phosphates and manufacture of ammonia and of Fertilizers through a Selective Consultation.



Projet Phosphates Intégré

Signature du Pacte d'Actionnaires
Alger, le 22 Mars 2022

The Algerian groups ASMIDAL (a subsidiary of SONATRACH) and MANAL on the one hand, the Chinese companies WUHUAN and TIAN'AN on the other hand, proceeded today in Algiers, to the signature of a Shareholders' Agreement for the creation, in partnership, of a joint-stock company governed by the Algerian law in order to start preliminary activities related to the development of an integrated phosphates project (IPP). The new company called “الشركة الجزائرية الصينية للأسمدة” – Algerian Chinese Fertilizers Company, by abbreviation ACFC » is 56% of shares owned by The Algerian part and 44% by the Chinese part.

A photograph of an industrial refinery tower with a large plume of white steam rising from the top. The tower is surrounded by a complex network of pipes and walkways. The sky is a clear, bright blue with some light clouds. The image is overlaid with a dark blue gradient on the right side.

DIAR PROJECTS

INDUSTRIAL AND OIL&GAS

PROJECTS REFERENCE NATIONAL
AND INTERNATIONAL

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.

Scope of Work

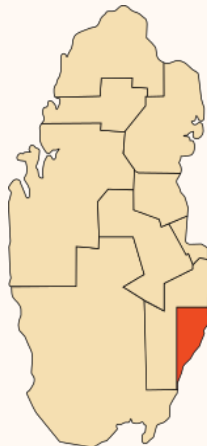


Project Phases :

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)

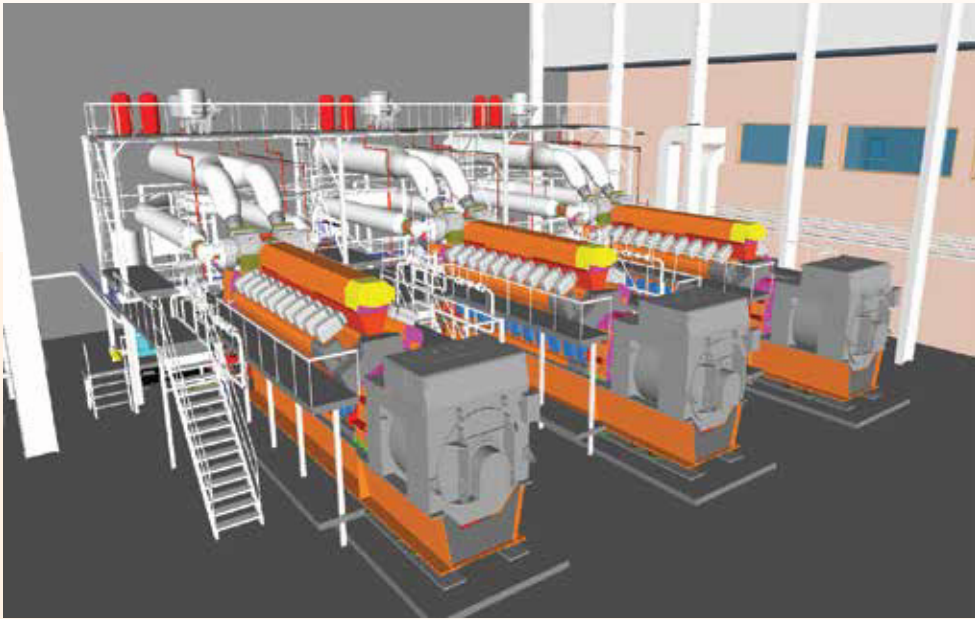
Scope Brief:

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**



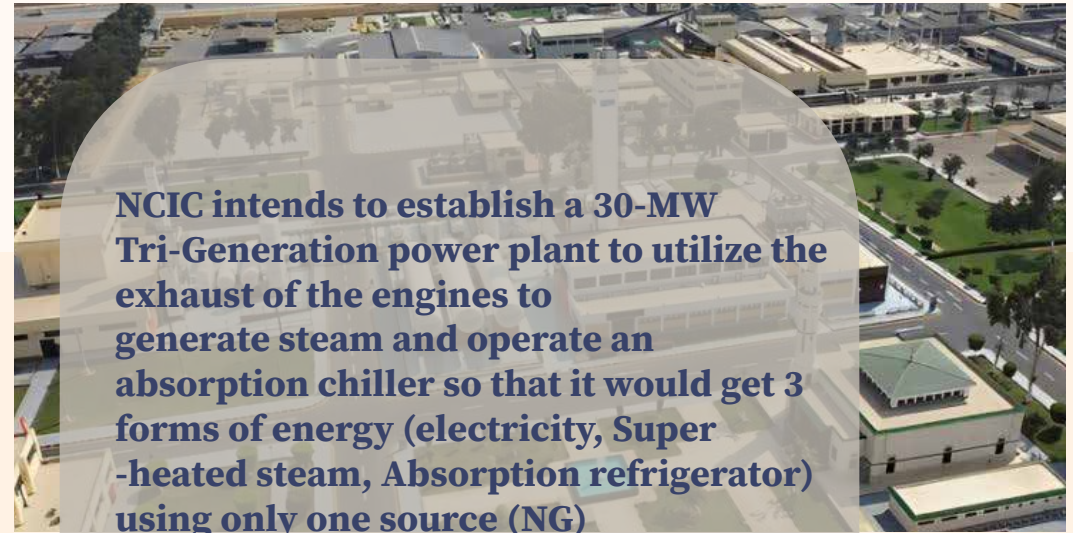
**Engineering for the Petroleum
& Process Industries
SAFANIYAH
(ENPPI KSA) Saudi Arabia**

KORRA/NCIC Tri Generation Power Plant



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.



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)



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

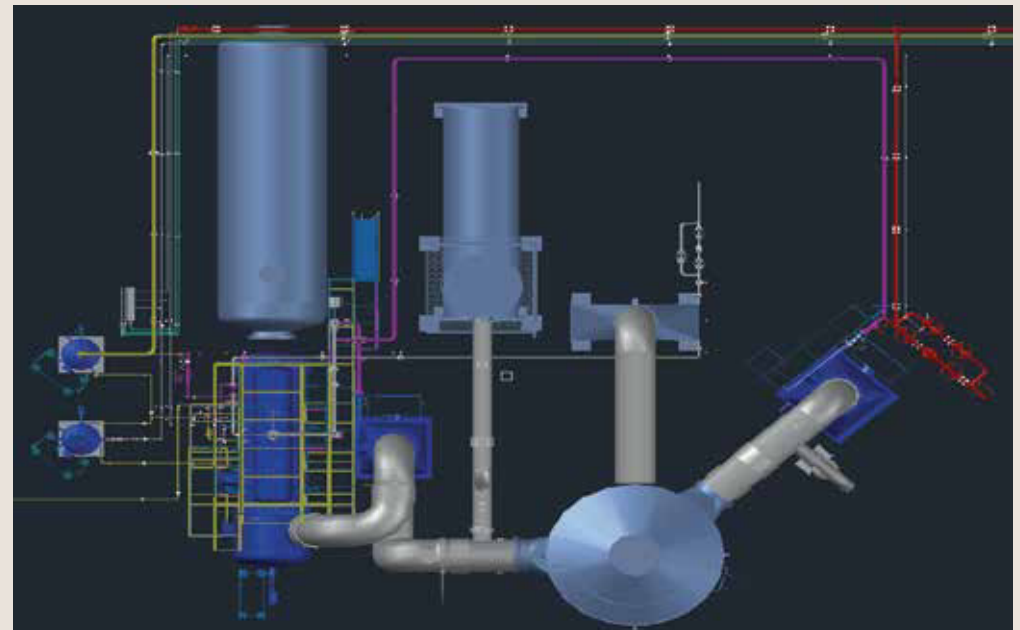
KORRA/NCIC Tri Generation Power Plant

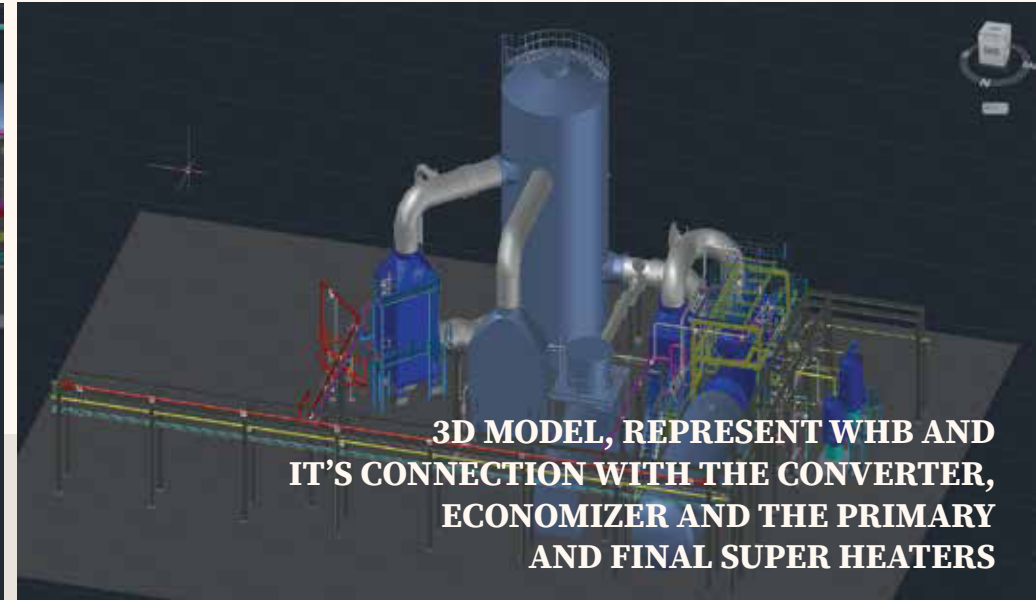
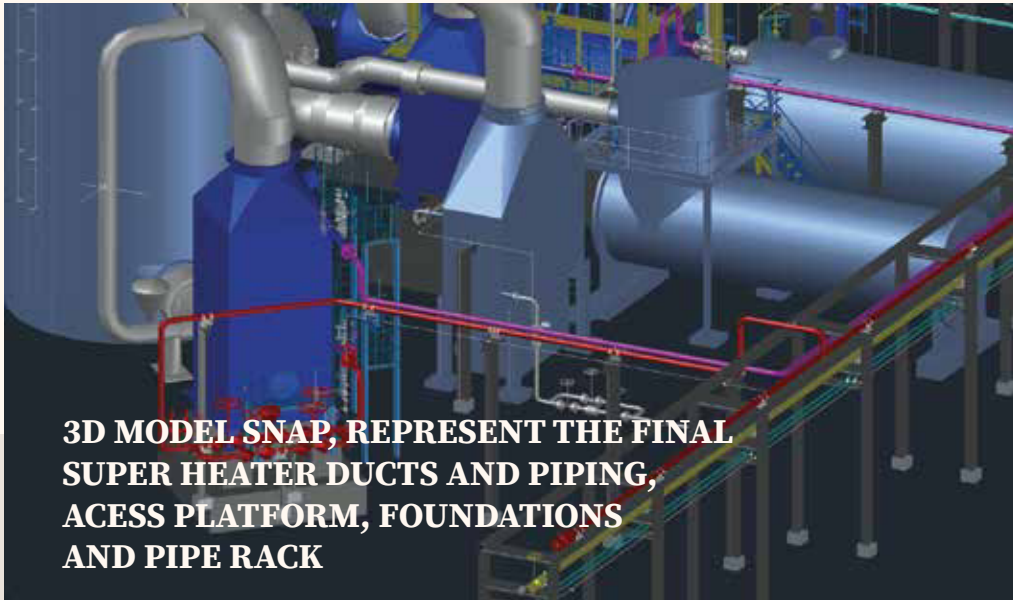


Waste Heat Boiler Replacement Project-Abu Zaabel Fertilizers & Chemical Company-AZFC

- 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.

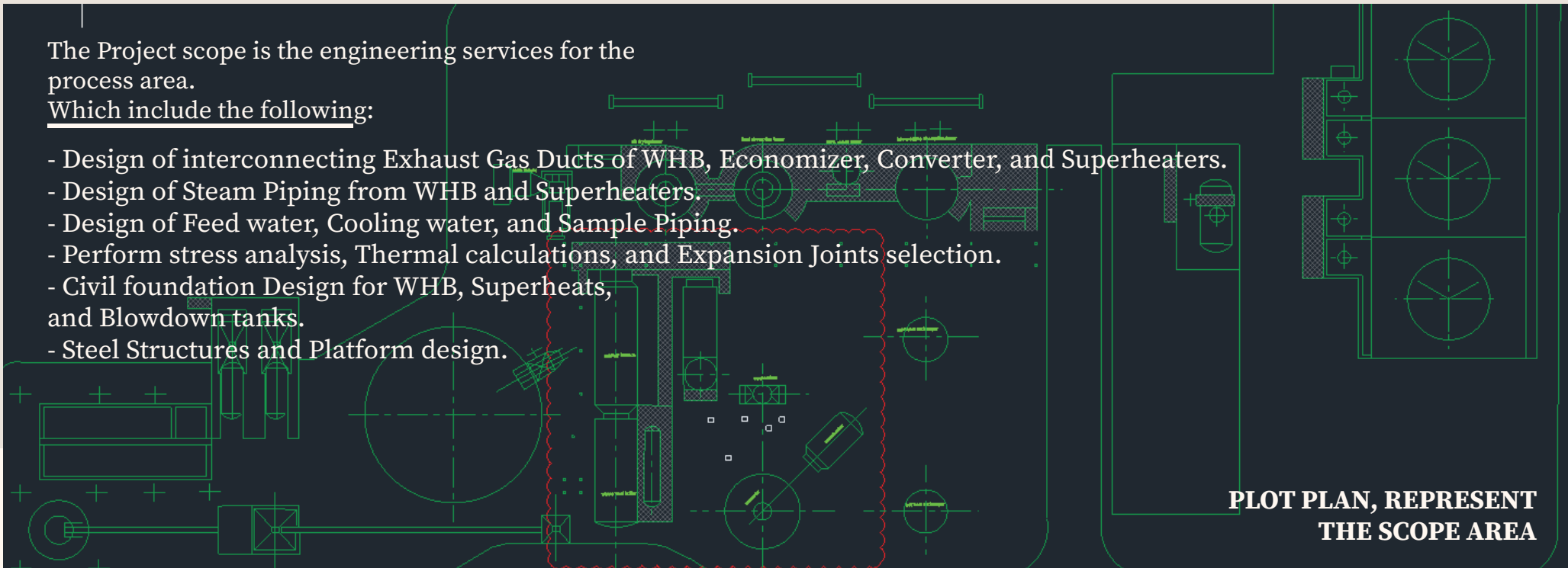




The Project scope is the engineering services for the process area.

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:

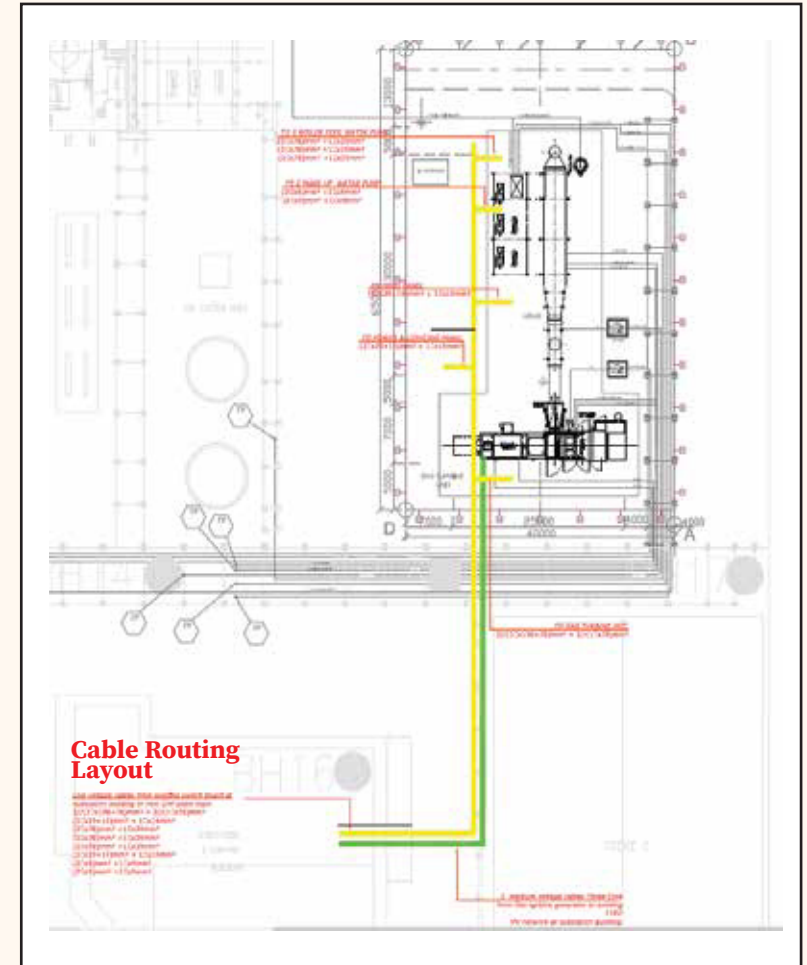
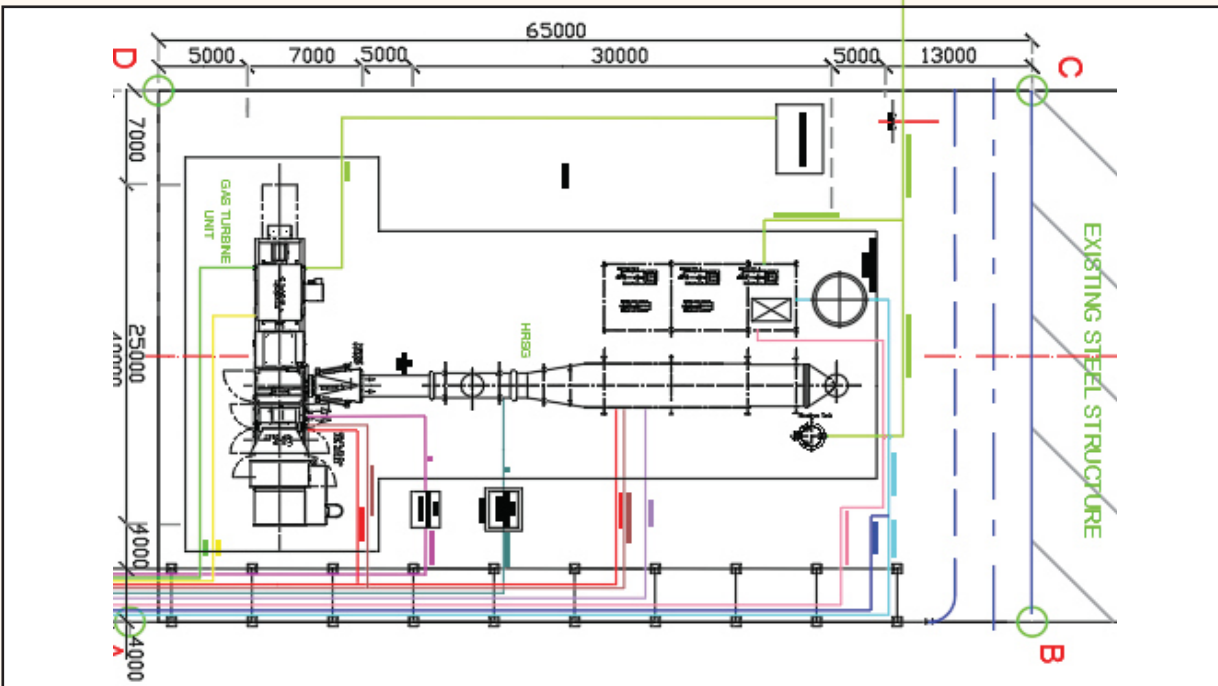
SIDPEC intends to construct a Combined Heat and Power (CHP) Plant located at El Ameriya – Alexandria and has invited Diar Consulting Group to perform the engineering works and estimation of the aforementioned project.

PROJECT GENERAL INFORMATION:

SIDPIC intends to establish a new Cogeneration (CHP) power plant. Accordingly, Korra 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



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)

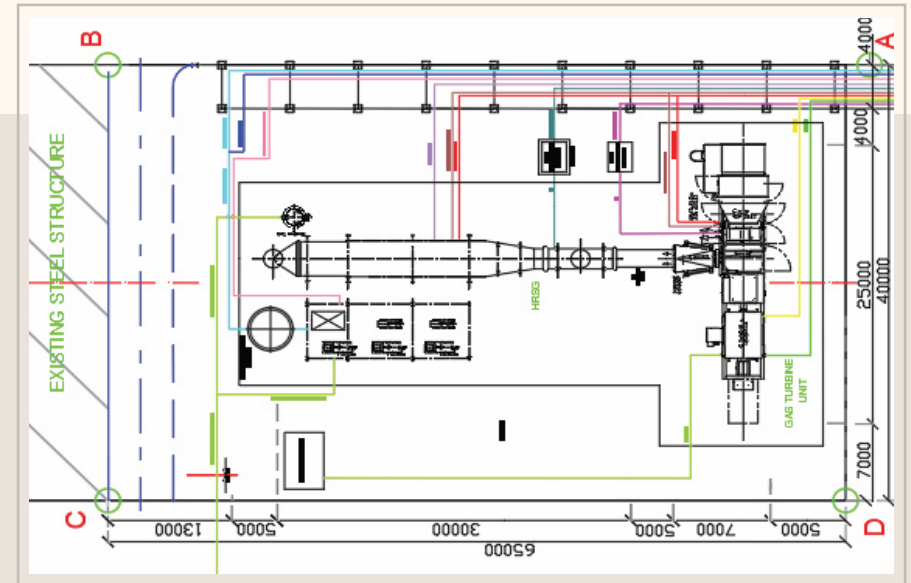
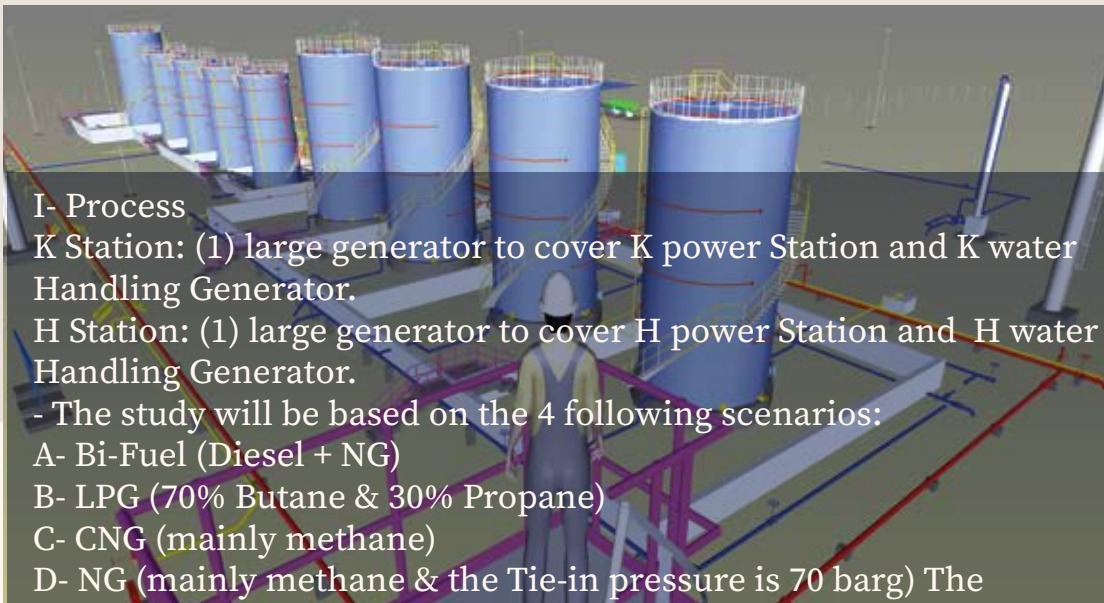
Petro Bakr - Energy Sources and Emissions Study

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.

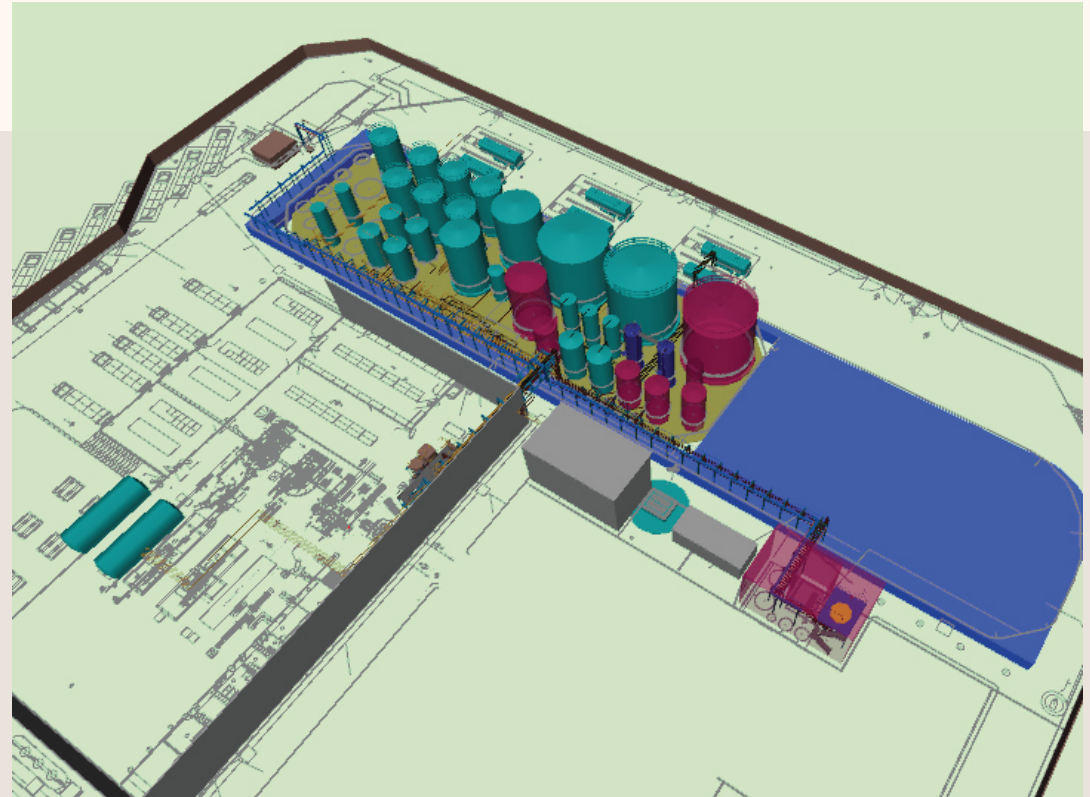
- The distance between the nearest location of proposed gas line Tie - in and H. Area (Approx. 4.8 Km) & for K. Area (Approx. 5 Km).

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.



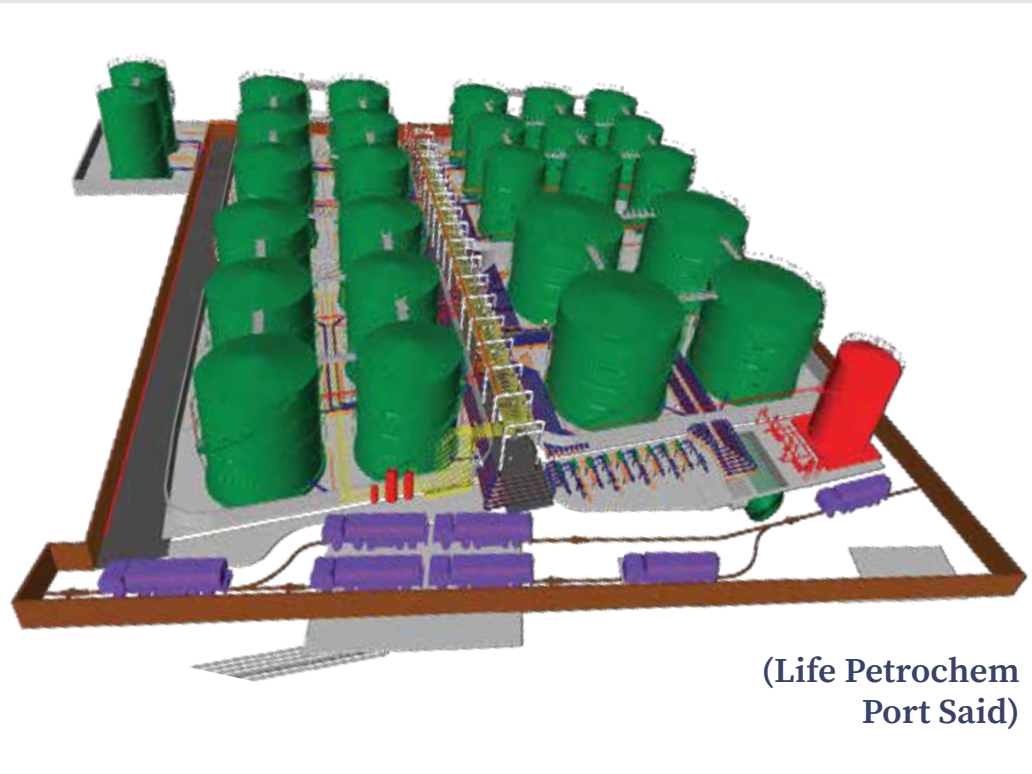
**Petrogulf Misr
Platform-WP-C**

Chemical Storage

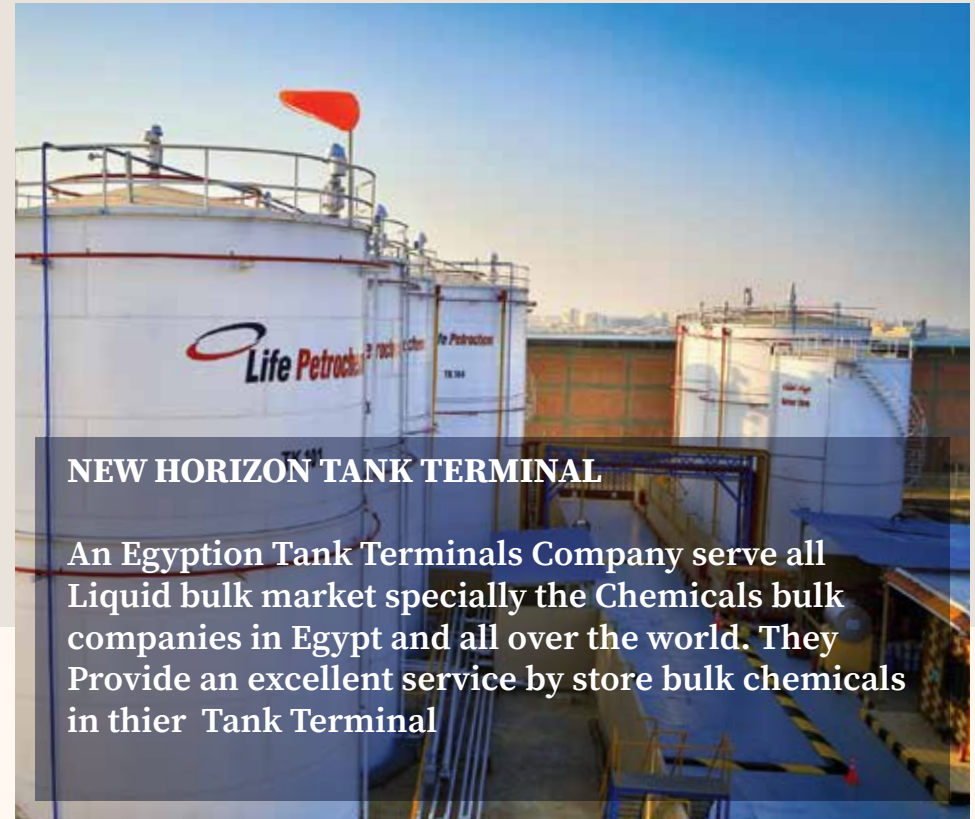
New Horizon Tank Terminal West Port Said Port, Egypt

(Life Petrochem Port Said)

Life Petrochem intends to erect a tank terminal that spans over 11,000 m² 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.

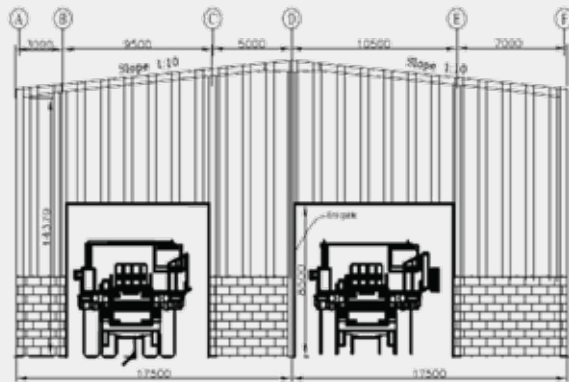
- The Scope of the Turnaround Plan also includes civil and layout changes that will facilitate the production on site.
- Diar start to do the As built and required modifications to achieve the required target.

Sukari Gold Mines

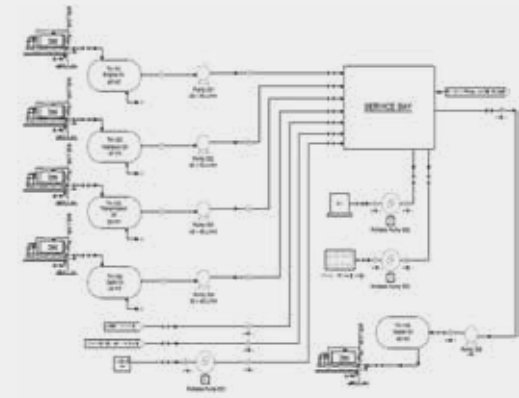
Marsa Alam, Egypt

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.



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.

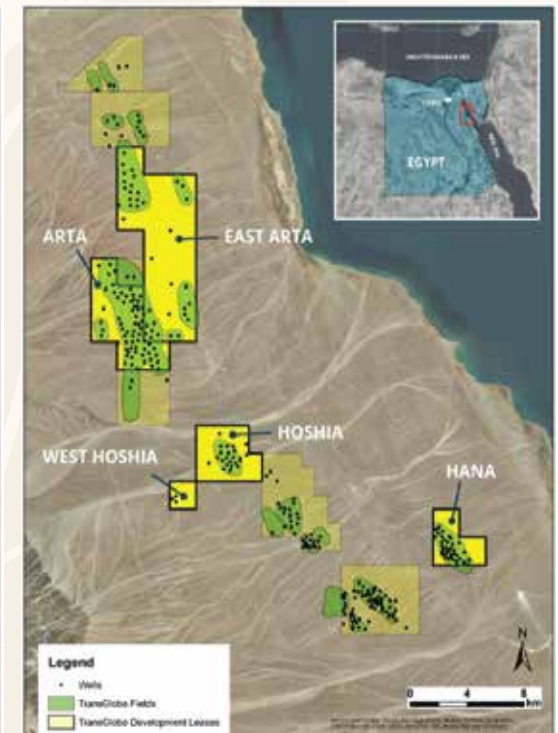
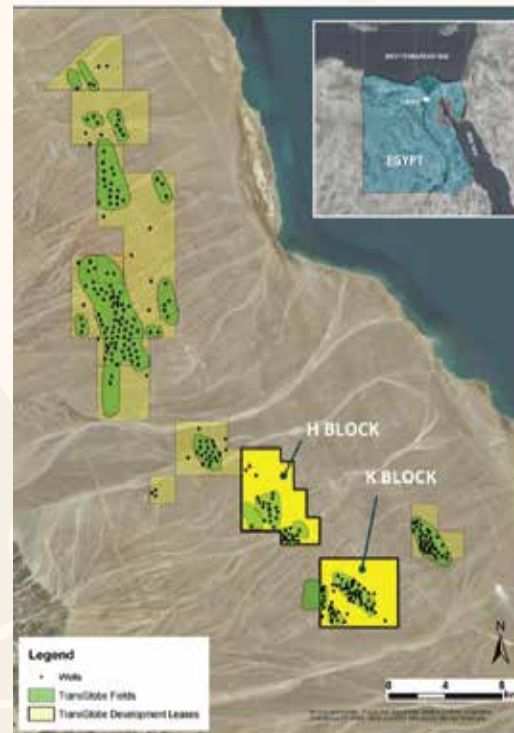


- PROJECT SOW
- Process Design Scope
- Civil Design Scope
- Mechanical Design Scope
- Piping Design Scope
- Instrumentation &
- Control Design Scope
- Electrical Design Scope

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

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 Energies

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

(Ashmoun City)

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

Egypt Gas (New

Salheya City)

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

Gastec

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

EMethanex

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

Agiba Petroleum

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

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

Korra-Energy-Waste Heat Recover Power Plant Helwan Cement

SCOPE OF WORK

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



Korra-Energi 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

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.



DIAR OLD PROJECTS

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

EGYPT AND MENA REGION PROJECTS

Solid foundations
for a **Brighter Future.**

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 in Egypt and MENA Region



- 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.

Buildings and Infrastructure Projects in Egypt and MENA Region



- Royal Guard camp - Riyadh - KSA.
- Warehouse - Royal Guard camp - Riyadh – KSA.
- Service Buildings - Royal Guard camp - Riyadh – KSA.
- Preparatory year Buildings (Six types Buildings).
- Animal Laboratory House (Three Buildings).

Shymaisy buildings Project – Shop Drawings Location:
Makkah, Saudi Arabia.

(Client: Bin Laden, redesign and Shop drawings)

- MultiPurpose Hall Building.
- Men's Departure Hall Building.
- Women's Departure Hall Building.
- Men's Administration Building.
- Visitors Building.
- Women's Administration Building.
- Women's Arrival Hall Building.
- Men's Arrival Hall Building.
- Ministry of finance Building.
- Kitchen & Bakery Building.
- Hospital service Building.
- 50 Bed Hospital Building.
- Laundry Building.

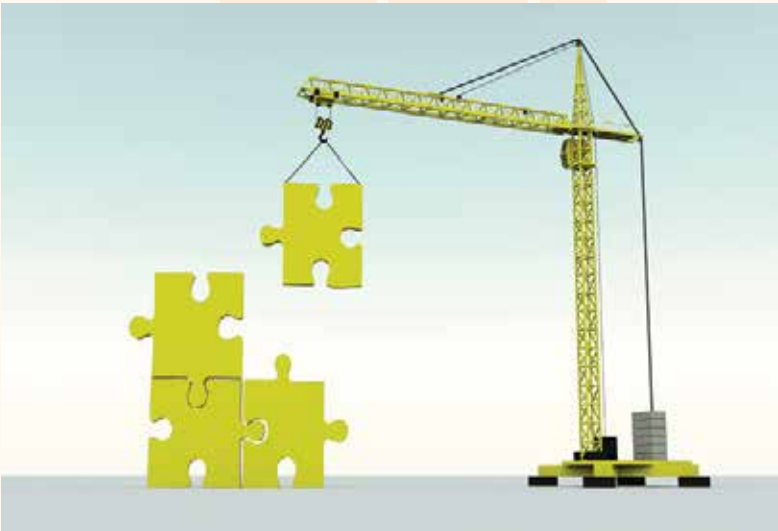
- Le Caire restaurant at Sun City Mall - Egypt.
- Premaman child dressing shop at Arkan Mall - Egypt.
- Belady restaurant at Tahrir Square - Egypt.

Buildings and Infrastructure Projects in Egypt and MENA Region



- Sama criet Sixth of October City Infrastructure, Location: Egypt
- Onayzaa Infastrcture Qaseem Location: KSA.

Commercial Building Projects



- Souq Masr Mall MEP revit model – El Sewedy Egypt
- Damietta Cancer center – Damietta, Egypt
- Nasaïem Hospital (6000m²) - Egypt
- Dokki Medical Center Building - Egypt
- Computer science Collage – Madina KSA (42000 m²)
- Environmental Collage MEP revit model (18000 m²)
- Poetry Collage MEP revit Model KSA (24000 m²)
- Gastec New office Building - Egypt

- EGYBEL-Office Building - Maadi, Egypt
- Emerging Media Office Building - Egypt

Residential Projects

- KAKIAA residential compound project, Location: Makka, Saudi Arabia.
- Limas Compound including six Villas.
- Al-Fareda Compound – Shop drawings.



- Residential and commercial buildings Compound Infrastructure – Location: Alexandria, Egypt.
- El-Guhany Villa Detailed design.
- Asmarat City Mosque.
- Ibrahim Khalil Mosque at 5th Settlement.
- Residential Buildings - Royal Guard camp Riyadh – KSA.

A photograph of a person's hands holding a pen, working at a computer workstation in a bright office. The computer monitor displays a detailed architectural floor plan with various rooms and corridors. A large, dark blue, rounded rectangular graphic is overlaid on the left side of the image, containing the word "Software" in a light teal, sans-serif font. The background shows other desks and computers, slightly out of focus, with large windows letting in natural light.

Software

Electrical
Software



Dx

MEP
Software



**Instrumen-
-tation**
Software



Process
Software



Piping
Software



Design



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.



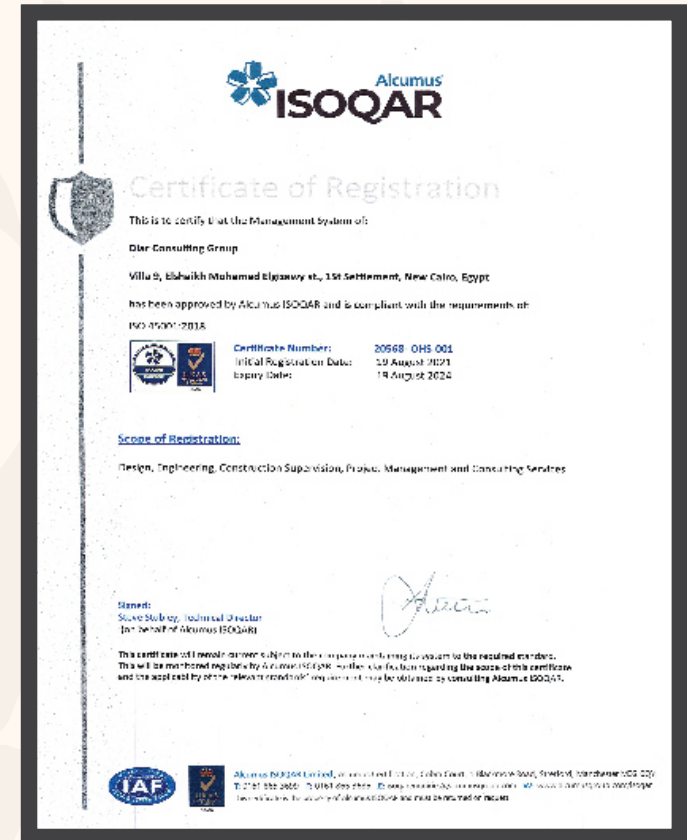
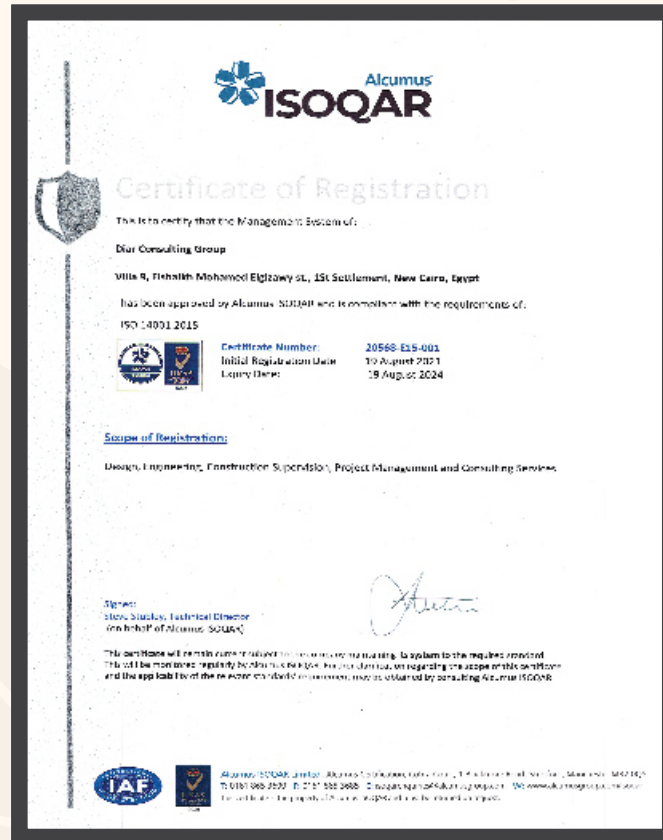
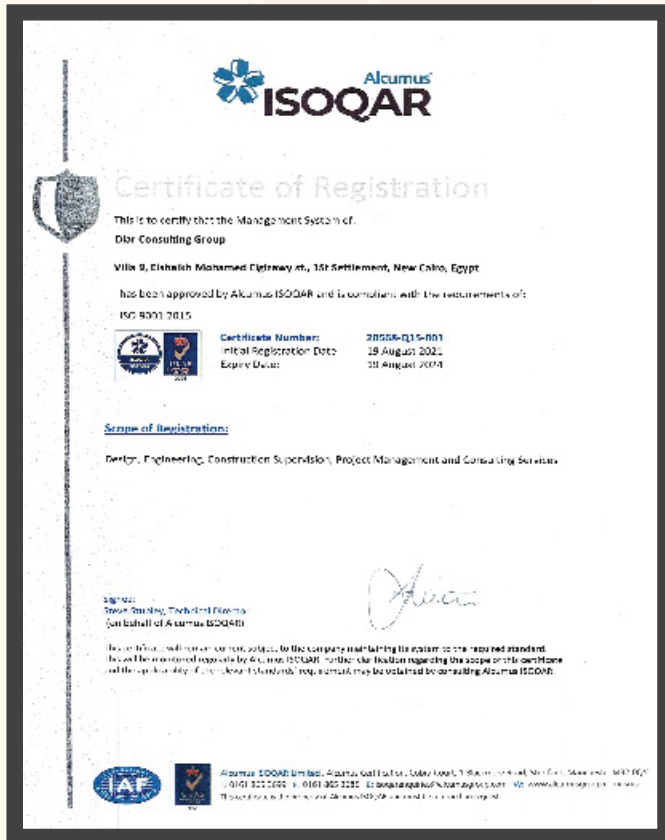
An offshore oil rig is shown at sunset, with the sun low on the horizon and the sky in shades of blue and orange. The rig's complex steel structure is silhouetted against the sky, and some lights are visible on the platform. The ocean is in the foreground, with gentle waves.

DIAR CERTIFICATIONS

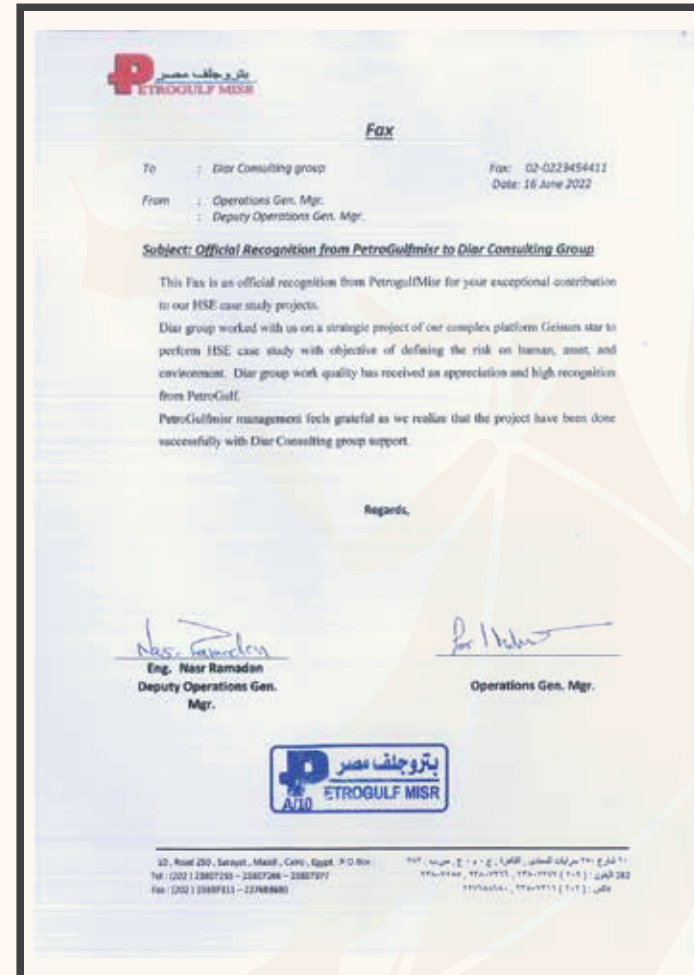
Our Certifications

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)



Clients Appreciation



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.

OUR OFFICES MAP

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



Algeria



Cairo
(Head Office)



KSA



Bahrain



UAE



Oman



Singapore



South Africa



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)



Visit Our Website



☎ MOB: 0 106 642 4403

📞 TEL. / FAX: +2 2345 4411

✉ Info.diar@diargroup.com

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Thank You