Unified UAE Subsidiary

YOUR PARTNER IN SUCCESS!

UNITED ENGINEERS FOR PETROLEUM PROJECTS (UNEPP)

COMPANY PROFILE

UNEPP

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Unified engineering consultancy FZE

Abu Dhabi, Building No. 280,

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Contents

INTRODUCTION

ABOUT US

UNEPP is an independent, privately owned company founded in 2008. UNEPP has a unique competence and experience in being able to support all phases of Oil and Gas developments from initial feasibility studies through concept screening and selection, basic and detailed design, procurement support, installation and construction, construction support, project management support, commissioning and operations support.

The wide range of expertise between the different disciplines within UNEPP adds considerable value to each project scope undertaken and enables a wide range of solutions.

To date, we have undertaken several contracts, which we have completed safely and on time, to budget. UNEPP has established a reputation for the precision and quality of its engineering and construction work.

UNEPP is able to provide clients with a single source from where a complete range of specialized personnel and facilities can be obtained.

Unified engineering consultancy FZE located in UAE acquired 99% of Unepp. Now Unepp became unified subsidiary.

OUR VISION

Delivering value to our clients through a high set of standards consistently is our utmost priority. We aspire to be the distinctive, preferred and trusted regional contractor in the continuously evolving Energy Industry.

OUR MISSION

We strive to provide premium service for our clients through up-to-date technology and content whilst complying with world class health, safety, and environment standards.

POLICIES

HSE POLICY

UNEPP considers Health, Safety and Environment aspects as a matter of highest priority in the execution of projects and the provision of products and services.

Our HSE policy is implemented through the following primary objectives:

• To comply with the requirements of national and international regulations.

• To ensure that potential health, safety and environmental risks associated with all our activities are assessed as early as is practicable in order to minimize adverse effects and to identify opportunities for improvement.

• To continually improve our human resources through the implementation of structured training program designed to reinforce the HSE culture.

• To regularly scrutinize, evaluate and review the health, safety and environmental performance to ensure compliance with our policy and to learn from our experience.

• To ensure that personal protective equipment is provided to all employees to ensure their safety and prioritize their health, except for when the risk has been adequately controlled by other means which is equally effective.

The above policy is established and reflected in UNEPP's HSE Manual. The HSE Manual ensures that the implementation of HSE in all projects is in accordance with relevant legislation, regulations, standards and client requirements, and that, in all projects, the implementation and experience transfer of HSE is performed in accordance with uniform guidelines. In those instances where the client has specific requirements in connection with the implementation of HSE in projects, such requirements will be additional to this manual.

QUALITY POLICY

The hallmark of UNEPP shall be quality. All our commitments, actions and products must be recognized as an expression of quality.

Our most important criterion of quality is the satisfaction of our clients. We must aim at maintaining their full confidence in UNEPP as a supplier. The demands and expectations of the client must be met by our commitments conforming to agreed terms. Each delivery should create a recommendation for further business.

The achievement of these quality goals and, consequently, our overriding goal to continue operating as a competitive and successful enterprise will both be determined by our resources, by our organization, by the dedication we show in our work and, above all, by our attitude to quality.

Our Quality Policy will be implemented through the following primary objectives:

• Maintaining a Quality Management System meeting the requirements of **ISO 9001**

• Enabling all our employees to meet quality requirements and striving to achieve good work first time, every time and on time.

• Committing to a positive and long-term client relationship by promulgating and satisfying the standards set for our work, encompassing tendering, project execution, delivery, and guarantee work. Client Focus is essential for own growth and profit. Added competitive edge to our clients is the best measurement for our success.

• Committing to a positive and long-term employee relationship by demanding performance of high-quality work and allow for personal growth and development.

• Committing to a sound environmental management.

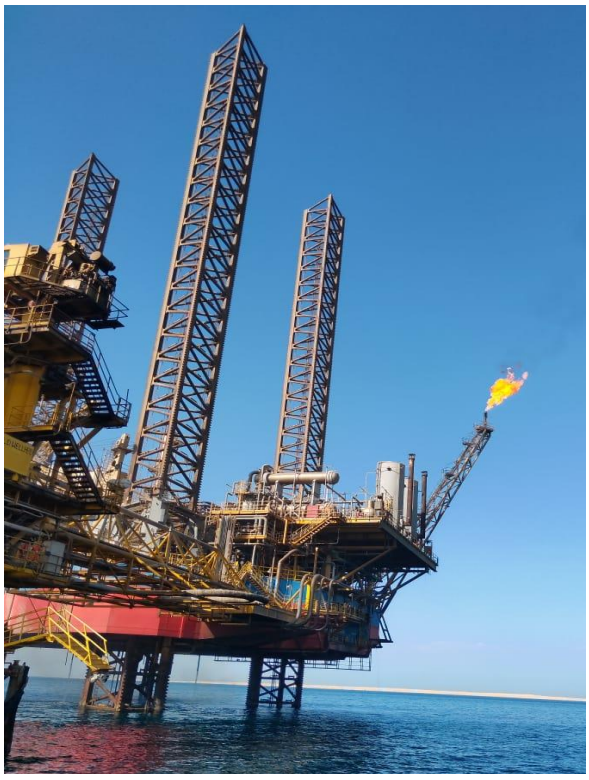
• Identifying and developing cost effective solutions for technical and administrative project support.

• Ensuring that all work is performed with due regard to the prevention of errors, continues improvement and simplification of work processes.

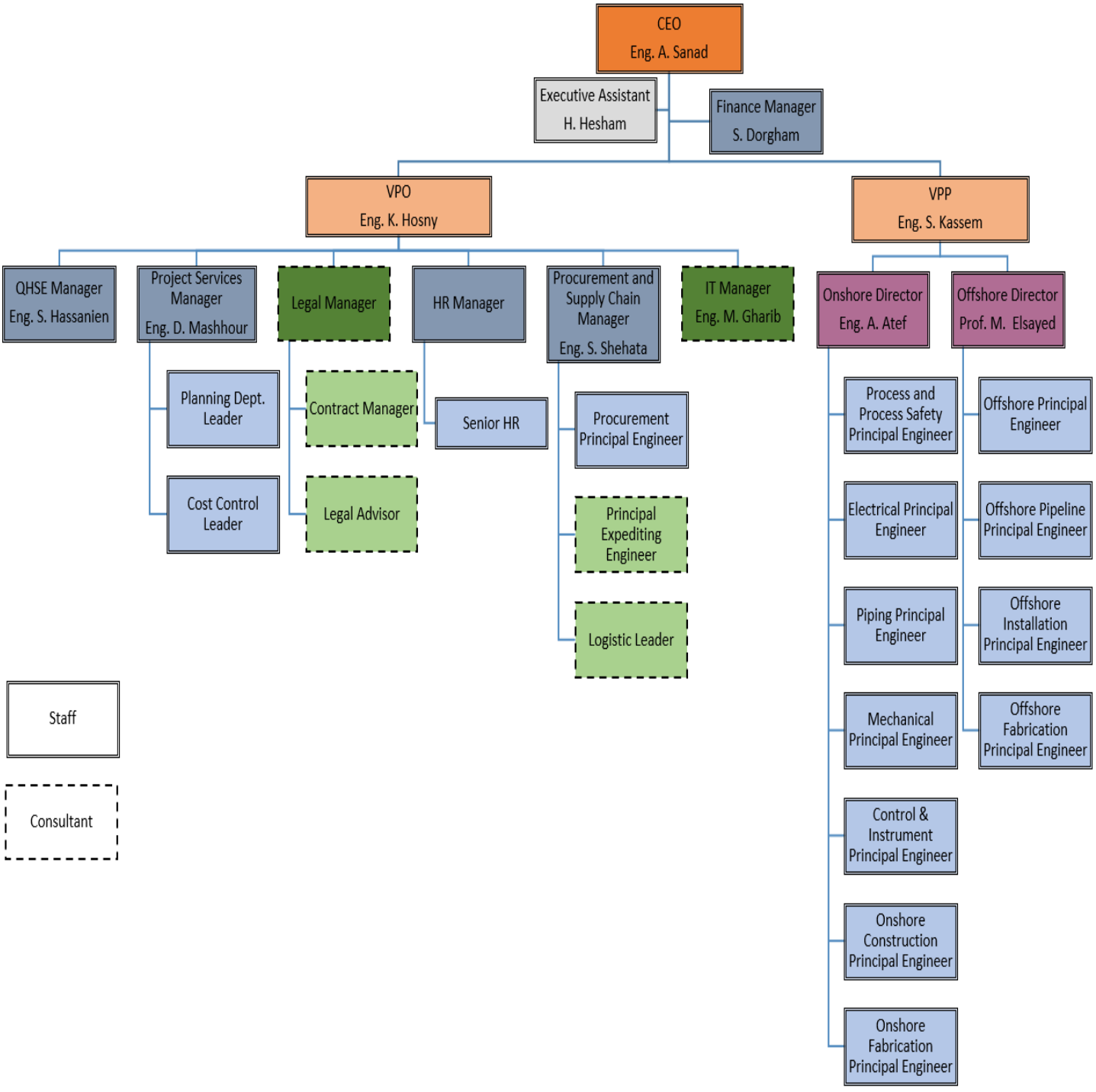
• Ensuring that all work is performed in accordance with the highest ethical standards.

• Illegal, unfair or unethical conduct is not acceptable.

Consistent with this policy, specific quality objectives are established and reflected in our Quality Assurance Manual and Quality Management System procedures. By mutual encouragement, commitment and cooperation through teamwork, we will achieve our quality objectives.



CORPORATE ORGANIZATION



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SCOPE OF SERVICES WE OFFER

1. ENGINEERING STUDIES & CONSULTING

A. PROCESS SAFETY CONSULTING

- HAZOP
- HAZID ENVID
- SIL assessment and Verification
- Fire Risk Assessment
- Explosion Risk Assessment
- Toxic and Hydrocarbon Dispersion Assessment
- Building Risk Assessment
- QRA
- Non-hydrocarbon Hazard Assessment (Structural Risk, Occupational Risk, Transportation Risk)
- Pipeline and Riser Risk Analysis
- Flare Radiation and Dispersion Analysis
- Escape Evacuation and Rescue Analysis
- Emergency System Survivability Assessment
- LOPA layer of protection Analysis
- Temporary Refuge Assessment
- HSECES Health Safety Environment Critical Element Study
- RAM Study

B. ENGINEERING STUDIES

- Initial Technical Feasibility and Techno Economic Studies
- Concept Screening and Selection Studies
- Risk Evaluation and HSE Studies
- Pre-start Up Audits
- Contractors Pre-qualification

C. PROJECT MANAGEMENT

- Projects Planning and Scheduling
- Cost Estimation and Control
- Construction Supervision
- Engineering Review and Supervision
- Progress Monitoring and Reporting
- Field Inspections
- Construction Safety Programs and Procedures Witnessing Mechanical Acceptance Tests

2. ENGINEERING SERVICES

- Basic and detailed engineering incorporating the following:
  - Process and systems engineering
  - Mechanical engineering
  - Control and instrumentation engineering
  - Electrical engineering
  - Piping engineering
  - Civil and steel structure engineering
  - Material/corrosion
  - HVAC engineering
  - Offshore and onshore pipelines engineering
  - Piping and layouts
- HSE
- Operating procedures manuals
- Site procedures
- Vendor data books
- Construction, commissioning and operating philosophies
- Preliminary and detailed specifications
- Drafting

3. CONSTRUCTION & COMMISSIONING SERVICES

- Pipelines Construction
- Piping Fabrication and Installation
- Equipment Installation
- Polyethylene Gas Distribution Networks Installation and House Connections
- Hot Tapping
- Sand Blasting and Painting
- Steel Structure Fabrication and Installation
- Cathodic Protection Systems Installation
- Electrical Installations
- Instruments Installations

4. SKID MOUNTED PACKAGE & PRESSURE VESSELS FABRICATION

Plate Processing Area

- BEYLLER Hydraulic Shear (4 meter * 10 mm)
- COLGAR Press Brake 400 ton / 6 meter
- SERTOM Plate Rolling 2.5 meter /25 mm
- Iron Worker Kingsland 80 ton
- Punch Peddinghaus 30 ton
- RICHMOUND Radial Drilling
- RICHMOUND Axis Drilling
- DEMAG Overhead Crane 5 ton

Sections Processing Area

- Band Saw up to 1000 mm / birilik
- Section Saw up to 400 mm solid bars
- Beam Drilling Line Peddinghaus Pcd1100 /2010
- Automatic Welding Line ESAB A2
- Beam Assembly Line up to 1000 mm Web Height
- Mig / Tig /Stick Welders (50 ea.)
- Overhead crane 10 ton DEMAG

Assembly and Testing Area

- P&H Crane 35 ton (2 ea.)
- Forklift 3, 5, 7 ton (3 ea.)
- Assembly Skid (10 ea.)
- Welding Machines (30 ea.)

Blasting and Painting Area

- Atlas Copco XAS 175
- Graco Spray (4 off)
- Sand Pot (18 ea.)
- Garnet Recycle Equipment (1)
- Paint Booth 50 m2 (1)

LIST OF PREVIOUS PROJECTS

1. ENGINEERING STUDIES & CONSULTING

A. PROCESS SAFETY CONSULTING

SN	Description of Works	Client	Location
1	HAZOP Engineering Study for Ashrarfi New Modifications	AGIBA	Cairo
2	HAZOP Engineering Study for Existing LPG Butane Vessel	JOHNSON WAX	Jeddah, KSA
3	HAZID/HAZOP Engineering Study for El-BASANT Compression Station -One Train-	WASCO	Cairo
4	HAZID/HAZOP Engineering Study for Fire Fighting Network at EW-02 Plant	WASCO	Cairo
5	Safety Integrity Level Study (SIL) by Layer of Protection Analysis (LOPA) for El-BASANT Compression Station –One Train-	WASCO	Cairo
6	Safety Integrity Level Study (SIL) by Layer of Protection Analysis (LOPA) for Fire Fighting Network at EW-02 Plant	WASCO	Cairo
7	HAZOP Engineering for Existing LPG Butane Vessel	JOHNSON WAX	Cairo
8	HAZID/HAZOP Engineering for El-BASANT Compression Station –Two Trains-	APM	Cairo
9	Safety Integrity Level (SIL) Determination by Using Layer of Protection Analysis- Simplified Process Risk Assessment “LOPA” for EL-BASANT Compression Station	WASCO	Cairo
10	HAZOP Engineering Service South ANNAJMA EPF-RAM/PSI- STAROIL	ECG	Cairo
11	HAZOP Engineering Service for CPF Export Crude Oil Quality Improvement HEGLIC-SUDAN	ECG	Sudan
12	HAZOP of Noddle Station	APM	Cairo

B. ENGINEERING STUDIES

SN	Description of Works	Client	Location
1	NORPETCO Field Development Feasibility Studies	SAR	Western desert
2	24" P/L Flow Assurance Study Report	PICO	Zait Pay
3	Gas House Ventilation System and Humidity Control	JOHNSON WAX	Cairo
4	Feasibility Studies at Field – Trucking Crude Alternatives & NASER Camp Expansion	PETRO DARA	RED SEA
5	GAP Analysis Identification Study for LPG GAS House	JOHNSON WAX	Cairo
6	Development of a Detailed Start-up and Operating Procedures Manual for WDDM Phase V New Systems and Equipment	BURULLUS	RASHID
7	Feasibility Study for SFAYEH BS Treatment Station	ARFADA	Syria

C. PROJECT MANAGEMENT

SN	Description of Works	Client	Location
1	HAZOP Chairman Daily Rate for HAZOP Study	AGIBA	Cairo
2	HAZOP Study for MELIHA Oil Treatment Plant	AGIBA	Cairo
3	P.M & Technical Support	APM	Damietta
4	AMAPETCO Platform "C"	PICO	RED SEA
5	Engineering Review & Analysis for LPG Tanker	JOHNSON WAX	Cairo
6	HAZOP Study for Balsam Compression Station	WASCO	Cairo
7	HAZID, HAZOP & SIL Studies for New GNN Field Development	PetroGulf Misr	Cairo
8	HAZOP & SIL Studies for Basic Engineering for SFAYEH BS Treatment Station	ARFADA	Syria

2. ENGINEERING SERVICES

SN	Description of Works	Client	Location
1	Engineering Work for AQP Tie-in for the Three Slug Catchers to the Compression Station	EMC	Alexandria
2	Engineering Work for GPC 10” Pipeline	EMC	West Desert
3	ESD System for MELEIHA Manifolds	AGIBA	West Desert
4	Design Review for Pressure Vessels	VEOLIA	Cairo- Assuit
5	TAREK NODEL Compressor Relocation	KPC	Western dessert
6	Engineering Works for Pumping System for Disposal Well	EHO	El-Alamen
7	AQP Engineering for TIE-IN MODIFICATION of Onshore INLET Separation Area and Gas Compression Station	EGPC	ABU QER
8	Engineering Activities for Relocation of Shams Nodal Compressor	KPC	Western dessert
9	Engineering Activities of Fuel Gas Package	WASCO	Damietta
10	Engineering Activities for Inert Gas System	WASCO	Damietta
11	Double Deck Roof Design for Floating Tank	EMC	Amreya
12	Engineering Work for Tie-in Lines Between PPP – OSBL and Inside SIDPEC Plant	ETHYDCO	Alexandria
13	Basic and Detailed Engineering of West Bakr Oil Skimmer	WEST BAKR	Red Sea
14	Faraskour Gas Compression Station Project	WASCO	Damietta

SN	Description of Works	Client	Location
15	As Built Drawings for Petro Silah Co. Field	PETROSILAH	Fayoum
16	Engineering Review and Detailed Engineering Design of DAMMAM Residential Apartments	ALMOHILEB	Riyadh, KAS
17	Fire Fighting Network Detailed Engineering Design at EW-2 Plant	WASCO	Cairo
18	Engineering Design & MRQ for Two Heater Separators Skids	WASCO	Cairo
19	Engineering design & MRQ for UPS unit	WASCO	Cairo
20	Engineering Design & MRQ for Two Condensate Surge Skids	APM	Alexandria
21	Engineering Design for EL-BASANT Gas Compression Station -Two Trains-	WASCO	Damietta
22	Engineering Design of Multi-Tube Film Reactor SULPHONATION Plant	Al-INTAJ	CPC,6th of October
23	Engineering Design of HDEB TANK	NASCOM	P&G 6th of October Factory
24	Engineering Design of Overhead Crane and Structure Steel	AL-HAZEM	Cairo Airport
25	Engineering Design of Air Compressor & Drier Skids	PICO	Cairo
26	As-Built Drawings for Chevron Oil Tank-73	CHEVRON	Suez
27	Design of the Firefighting Network for RAS BAKR Oil Facilities	GPC	Ras Bakr
28	Stress Analysis for AL-QASR Power Station Fuel Gas Pipelines	KHALDA	EL-QASR, Western Desert
29	Basic Engineering for 32” Transmission Line ELSADAT-DAHSHOUR	TAQA	Sadat

SN	Description of Works	Client	Location
30	Engineering Works for Raffinate Tank	ETHYDCO	Alexandria
31	Floating Roof Tank	Petroleum Pipelines Company	Qarun Station
32	Central Processing Facility for SDX Energy	EXPRO	South Disouq
33	Offshore GEMSA Platform Extension	GEMSA	Red Sea
34	Engineering Study for PGM Well G-22 Conductor	PetroGulf Misr	Red Sea
35	Early Production Facilities for New GNN Field Development-Pack 1	PetroGulf Misr	Red Sea
36	Engineering Works for Balsam Compression Station	Wasco	Damietta
37	Early Production Facilities for New GNN Field Development -Offshore Conductor Support Structure- Pack 1	PetroGulf Misr	Red Sea
38	Early Production Facilities for New GNN Field Development -Offshore Top Side Facilities- Pack 2	PetroGulf Misr	Red Sea
39	Basic Engineering for SFAYEH BS Treatment Station	ARFADA	Syria

3. CONSTRUCTION AND COMMISSIONING SERVICES

SN	Description of Works	Client	Location
1	Construction Work & Pre-Commissioning for 16" & 24" Underground Gas Pipeline	Nat Gas	6th of October
2	Construction Work for EL-BASANT Gas Compression Station – Including Equipment Installation, Piping and Steal Structure Work	WASCO	Damietta
3	Lightning Protection System for Two Condensate Tanks Area at EW-Plant	WASCO-APM	Damietta
4	Construction of Electrical Products Factory	Al-THORAYA	15th of May, HELWAN
5	Construction of Pipe Rack, Steel Structure Fabrication and Piping Installation for MACK Factory	Total Solution	10th of Ramadan
6	Execution of 12" Underground Gas Pipelines	National Gas	10th of Ramadan
7	Execution of Gas Supply System to MOUBARK City	Nat Gas	6th of October
8	Execution of Gas Supply Pipeline to Rich back	Nat Gas	6th of October
9	Installation of Three Storage Tanks, 50 m3/each – Pumps Station Including All Associated Piping Work	ARMA Factory	10th of Ramadan
10	Provision of Chemical Cleaning and Fuel Flushing for Egyptian Electricity Holding Company (Port Said)	Hassan Allam Sons	Port Said
11	Air Blowing, GLT (Gross Leak Test) & Displacement Purging for 28" Duel Gas Piping & Pipeline at Abu-Qir Thermal Power Plant	ORASCOM	Abu-Qir, Alexandria
12	Nitrogen Test and Preservation for Gas Pipeline of AL-SHABAB Power Plant	AL-KHARAFI	Ismailia
13	Nitrogen Test and Purging for Turbines & Filters Skids and Turbine Gas Modules of AL-SHABAB Power Plant	AL-KHARAFI	Ismailia

SN	Description of Works	Client	Location
14	Hydraulic Test Service & Purging Preservation of Gas Pipelines at Damietta Power Plant	AL-KHARAFI	Damietta
15	Hydraulic Test Service & Nitrogen Purging of 20" Underground Pipeline	ORASCOM	El-TEBEEN power plant, HELWAN
16	High-Pressure Test for the High-Pressure Piping Network of El-TEBEEN Power Plant	FERROMETALCO	El-TEBEEN power plant, HELWAN

4. SKID MOUNTED PACKAGE AND PRESSURE VESSELS FABRICATION

SN	Description of Works	Client	Location
1	EPC Services for New Ethylene Tank Project	SC Johnson	Cairo
2	Supply and Fabrication of Vent Knock-out Drum Skids	WASCO	Cairo
3	Design, Supply and Fabrication of Two Condensate Surge Skids	APM	Cairo

SAMPLES OF EXECUTED PROJECTS

Pipelines and Gas Distribution Networks (4” & 6”)

Client	NATGAS
Project Description	Laying of 4" and 6" underground pipelines from the gas Pressure Reduction Station (PRS) to Rich Pack factory (6th of October City —industrial area)
Year of Execution	2008
Scope of Work	• Obtaining all required permits and coordination with local authorities • Line pipes stringing, excavation, welding, testing, cleaning and purging • Underground crossings (cables, sewage system, road crossings, etc.) • Installation of Cathodic Protection (CP) system and testing • Reinstatement, pipeline markers and handover to the City admin authority • Commissioning

Reference Details

Name	Ahmed Azouz
Company	NATGAS
Position	Shabakat General Manager
Phone	0122259915

Pipelines and Gas Distributions Networks (12”)

Client	NATGAS
Project Description	Laying of 12” underground pipelines from the gas Pressure Reduction Station (PRS) to Rich Pack factory (6th of October City —industrial area)
Year of Execution	2008
Scope of Work	• Obtaining all required permits and coordination with local authorities • Line pipes stringing, excavation, welding, testing, cleaning and purging • Underground crossings (cables, sewage system, road crossings, etc.) • Installation of Cathodic Protection (CP) system and testing • Reinstatement, pipeline markers and handover to the City admin authority • Commissioning

Reference Details

Name	Tarek Farid
Company	NATGAS
Position	Projects Manager
Phone	0106699726

Feasibility Studies and Basic Engineering

Client	TAQA
Project Description	Basic Engineering for the 32” new Elsadat-Dahshour gas transmission line including metering and pressure control stations
Year of Execution	2008
Scope of Work	• Pipeline system configuration selection and conceptual design • Prepare cost estimate for the selected options • Obtain budgetary quotation for main and key equipment • Develop project schedule • Develop the development scope and work execution statements • Support the company on building the project commercial model

Reference Details

Name	Rob Bennett
Company	TAQA
Position	Project Manager
Phone	0226240060, ext. 140

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Fire Fighting System Extension for GPC

Client	General Petroleum Company (GPC)
Project Description	Fire Fighting System Extension Engineering for the GPC South Bakr North Gathering Station
Year of Execution	2009
Scope of Work	• Sizing of the ring man loop and new water tank • Development of Fire Fighting philosophy, P&IDs, bulk MRQs, cable routings, wiring diagrams, Electrical Specification and lighting and earthling layouts and foundations and sleepers drawings and calculations • Development of Plot Plan, General arrangements, isometric drawings and stress analysis report • Mechanical Design of the fire water tank and develop the MRQ for the new firefighting pumps

Reference Details

Name	Mohamed Salah El-Din
Company	EMC
Position	Assistant Engineering General Manager
E-mail	mohamed.salaheldine-ta@emceg.com
Phone	0123211085

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HAZOP Engineering Service for CPF Export Oil Quality Improvement Plant

Client	Rasheed Petroleum Company (Rashpetco)
Project Description	Development of a detailed Start-up and Operating Procedures Manual for WDDM Phase V New Systems and Equipment
Year of Execution	2009
Scope of Work	• Section 1: General introduction, scope, objectives and HSE for each system • Section 2: Drawings illustrating the locations for major equipment items • Section 3: Detailed Start-up and operating procedures for utility systems • Section 4: Detailed Start-up and operating procedures for process systems • Section 5: Overview of hazards associated with specific locations and equipment systems in all areas

Reference Details

Name	Essam Adbelaal
Company	EMC
Position	Engineering Dept. Head
E-mail	essam.abdelaal@emceg.com
Phone	0166170160

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Hydro-Testing and Commissioning Services

Client	DSD Ferrometalco
Project Description	High pressure test for above ground piping systems for El Tebbeen Power Plant
Year of Execution	2009
Scope of Work	• Pipeline cleaning and flushing • Hydrotesting up to 400 barg • Dewatering and drying • Pipeline Purging and conditioning

Reference Details

Name	Amr Aldeeb
Company	DSD Ferrometalco
Position	Project Manager
E-mail	amr.aldeeb@dsd-steel.net
Phone	0226240060, ext. 140

Engineering Design of HDEB Tank

Client	NASCOM
Project Description	Engineering Design of HDEB tank in P&G factory to replace the old one with new parameters
Year of Execution	2010
Scope of Work	• Basic Engineering for HDEB tank • Layouts & drawings • As-Built

Reference Details

Name	Nassef
Company	NASCOM
Position	Chairman
E-mail	nsc_eg@hotmail.com
Phone	0100117949

Hydro-Testing and Commissioning Services

Client	ORASCOM
Project Description	Air blowing, GLT (Gross Leak Test) & displacement purging for 28" fuel gas piping & pipeline at Abu-Qir thermal power plant
Year of Execution	2011
Scope of Work	• Hydro-testing and Commissioning Service Procedure • Pipeline cleaning and flushing • Nitrogen Test • Pipeline Purging and conditioning

Reference Details

Name	Yasser Naguib
Company	ORASCOM
Position	Deputy Business Unit Director

Engineering Design of Multi-Tube Film Reactor SULPHONATION Plant

Client	AL-INTAJ
Project Description	SULPHONATION plant, established to extract SULPHAR organic substance to be used in chemical cleanings products industries, considers the most important substance in the chemical cleanings product industries. It calls the effective matter in the products.
Year of Execution	2011
Scope of Work	• Finalizing registration of factory location license • Plot plan arrangement • Engineering design for civil activities • Engineering design for electromechanical activities • Bidding a tender for construction

Reference Details

Name	Aly Allawaty
Company	AL-INTAJ
Position	Chairman
E-mail	aal@alintaj.com
Phone	0170192494

HAZOP Engineering Service for CPF Export Oil Quality Improvement Plant

Client	ECG
Project Description	HAZOP Engineering Service for CPF Export Oil Quality Improvement Plant
Year of Execution	2012
Scope of Work	• HAZOP Study • HAZOP Report

Reference Details

Name	Wael Abd Almeged
Company	ECG
Position	Deputy Projects Manager

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HAZOP Engineering Service for South ANNAJMA EPF-RAM/PSI-STAROIL Plant

Client	ECG
Project Description	HAZOP Engineering Service for South ANNAJMA EPF-RAM/PSI-STAROIL Plant
Year of Execution	2012
Scope of Work	• HAZOP Study • HAZOP Report

Reference Details

Name	Wael Abd Almeged
Company	ECG
Position	Deputy Projects Manager

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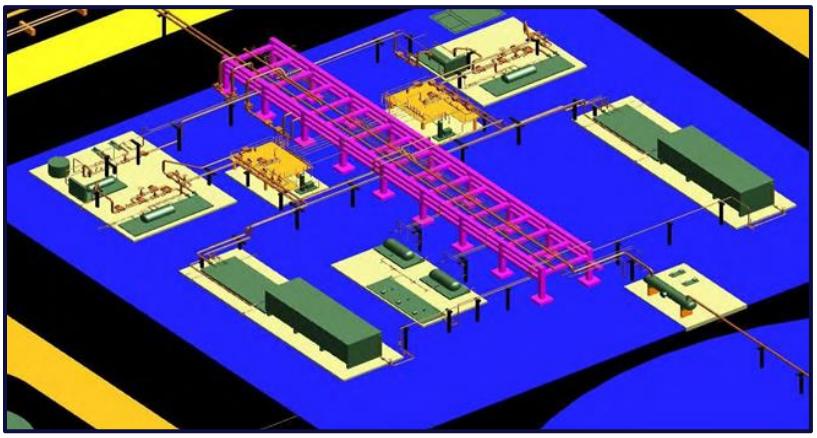
Engineering Design for El-Bassant Gas Compression Station



Client	WASCO
Project Description	El WASTANI petroleum company Wasco owns and operate a wet gas concession on located to the North of Nile Delta, Egypt, consisting of a number of produced wells gathered and sent to the main treatment facilities. The produced gas is wet and sweet. The pressure of some wells tends to decrease as of 250-450 PSI. Due to operational reasons, it's required to increase such wells pressures to be within 900-1100 psi. The proposed location for the compression station with its associated facilities will be defined by client.
Year of Execution	2013
Scope of Work	• Master Document Register • Project Quality Plan • Basis of Design & Process Description • Utility Philosophy • F&G Philosophy • F&G Specifications • HAZOP REPORT • SIL REPORT • QRA REPORT • UFDs & PFD • Drain Pit sizing • Fire Water Line Sizing and Hydraulic Calculation • Firefighting calculation report • Process P&ID • Cause & Effect Diagram (off skid) • F&G Cause & Effect Diagram (off skid) • Master Equipment List (off skid) • Hazardous Area Classification Schedule • Issue Flare MRQ • Fire water Pumps MRQ • F&G Detectors MRQ

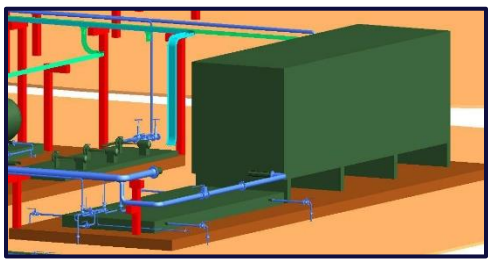
- Fire water tanks MRQ
- F&G panel MRQ
- Fire-Fighting MRQ
- Fire Fighting Equipment Layout
- F&G Detection Layout
- Instrument Index for new loose Instruments
- I / O List (off skids)
- Instrument Cable Schedule
- Instruments Layout
- Control Room Layout
- Standard Instrument Hook-Up Drawings
- Standard Instrument Hook-Up Drawings
- Instrument Wiring Diagrams
- Shut Down Valves MRQ
- New Loose Instruments MRQ
- Control Valves MRQ
- Integrated Control System “ICSS” Specification & MRQ
- Instrument Cables & Bulk Material MRQ
- Instrument Mechanical Fittings MRQ
- Instrument & Control Design Basis Specifications
- Pressure & differential pressure Transmitters Specification Sheet
- Pressure Gauges Specification Sheet
- Temperature Transmitters Specification Sheet
- Temperature Gauges Specification Sheet
- Orifice Plate & Restriction Orifice Specification Sheet
- Piping Material Specification
- Issue Standard A/G & U/G Piping and Piping Support Details
- Issue Platform Drawings above both of V -104A/B
- Issue Piping Stress Analysis Report
- Issue Line Designation Table (off skids)
- General Plot Plan
- U/G piping Drawings
- Piping General Arrangement Drawings (GA's)
- Piping Tee Posts Detailed Drawings
- Pipe Rack Drawing
- Piping Bulk MTO (off skids)
- Piping Supports Detailed Drawings
- Fire-Fighting Piping MTO
- Drain Pumps Datasheet & MRQ
- Issue Generator MRQ
- Diesel Engine Data Sheet
- Emergency Diesel Generator Specification
- Electrical Load List
- Single Line Diagram
- Grounding Layout
- Lightening Protection Layout

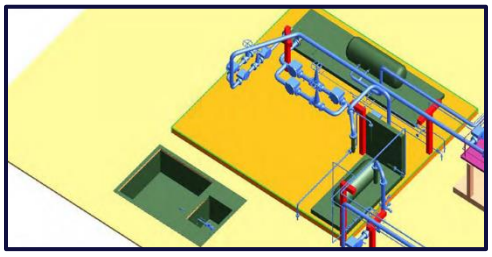
- Lighting Layout
- Hazardous Area Classification Layout
- Prefabricated Power Kiosk layout
- Lighting Block Diagram
- Cable Routing Layout
- Power System Study
- Lighting and Grounding Calculation
- Electrical Cable Schedule
- Electrical Design Specifications
- Induction Motor Specifications
- Electrical Package Equipment
- 400 Voltage Switchgear Specifications
- Prefabricated Electrical Power Kiosk Specifications
- AC Diesel Generator Specification
- Electrical Installation Details (Lighting, Grounding & Miscellaneous)
- Induction Motor Datasheet
- Issue Electrical Bulk Materials
- Electrical MRQ
- Electrical Cables MRQ
- 400 Voltage Switchgear Data Sheet
- Lighting & Small Power System MRQ
- Electrical Diesel Engine Data Sheet
- Motor Control Station MRQ
- Electrical Cable Trays MRQ
- Vendor Print Review
- Technical Evaluation Reports

Reference Details

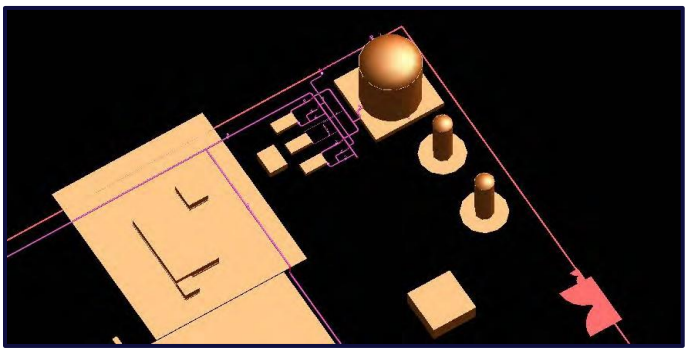
Name	Said Anas
Company	WASCO
Position	E&I Assistant Projects Manager
E-mail	sanas@wastani.com.eg
Phone	01001713261

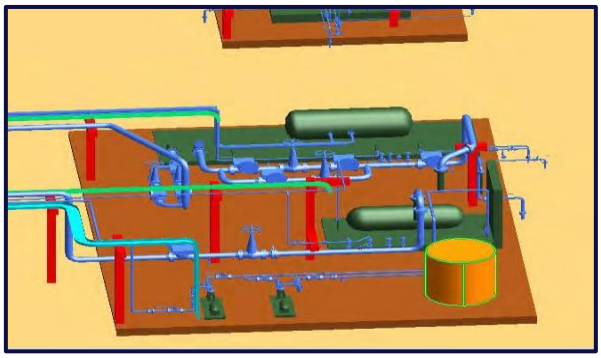
Engineering Design for El-Bassant Gas Compression Station (Continued)





Firefighting Network Detailed Engineering Design at EW-2 Plant





Client	WASCO
	El WASTANI petroleum company Wasco owns and operate a wet gas concession on located to the North of Nile Delta, Egypt, consists of a number of produced wells gathered and sent to the main treatment facilities, the produced gas is wet and sweet.
Project Description	A firefighting system is required for EW-1 & EW-2 gas compression station which are located at North of Nile Delta (water only) to protect the both plants. Firefighting system is designed to cover the both plants by hydrants & fire monitors surrounding the EW -1 & EW-2 plants.
Year of Execution	2013
Scope of Work	• Project Management • Master document register • Project Quality Plan • Project Procedure for Revision of Document Numbering • Correspondence and Document Control • Fire Fighting Philosophy • Firefighting Equipment Layout • Firefighting calculation report • Process Piping & Instrumentation Diagrams (P&ID) • Instrument Specification • Fire Fighting Piping Material Specifications • Piping Bulk MTO • Valve Bulk MTO • General Plot Plan • Piping General Arrangement Drawings • Isometric drawings • Standard Piping Supports Details • Fire Water Tank Specifications • Fire Water Pumps Specifications • Fire Water Tank Data Sheet • Fire Water Pump Data Sheet

- Fire Water Tank MRQ
- Fire Water Pumps MRQ
- Electrical Package specification
- Standard Electrical Motor Specifications
- Standard Electrical Motor Data Sheet
- Earthling Design & Calculations
- Cathodic Protection Design & Calculation of Fire Fighting Tank
- Lighting Layout
- Cable Routing Layout
- Earthling Layout
- Cathodic Protection Layout of Fire Fighting Tank
- Lighting MRQ
- Cable Routing MRQ
- Earthling MRQ
- Civil Specification
- Design for Access Stare and Miscellaneous Steel Supports
- Fire Water Tank, Diesel and Jockey Pumps Foundations: Plan and Details
- Fire Water Tank, Diesel and Jockey Pumps Foundations: Sections and Details
- Piping Sleeper Supports Detailed Drawings
- Structural General Notes and Typical Drawing
- Anchor bolts and steel connection standards Details
- Electrical Cable Trays MRQ
- QRA REPORT

Reference Details

Name	Said Anas
Company	WASCO
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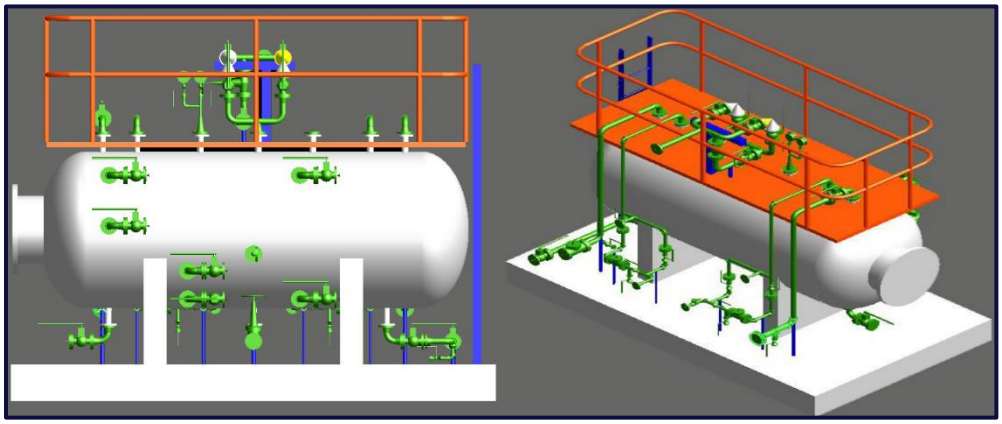
Unified UAE Subsidiary

Detailed Engineering, Design & Fabrications of Two Condensate Surge Drum Skids



Client	PETROMAINT
Project Description	Design, Supply and fabricate of two condensate surge skids for Two Condensate Surge Drum Skids mounted for EL- BASANT compression station.
Year of Execution	2013
Scope of Work	• Detailed Engineering for Condensate Surge Drum Skid. • Two Surge Skids Mounted.

Reference Details

Name	Ahmed Fouad
Company	PETROMAINT
Position	Projects Manager
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Phone	01222228225

Engineering Design for Transported LPG Tanker

Client	SC JOHNSON WAX
Project Description	Engineering Study for Transported LPG Tanker.
Year of Execution	2013
Scope of Work	Complete Engineering Study & calculation report.

Reference Details

Name	Yehia El-Sayed
Company	SC JOHNSON WAX
Position	SHE Manager
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Phone	01003920000

Engineering Design for Condensate Surge Drum Skid

Client	PETROMAINT
Project Description	Engineering Design & MRQ for Two Condensate Surge Drum Skids mounted for EL-BASANT compression station.
Year of Execution	2013
Scope of Work	• Engineering for Condensate Surge Drum Skid • Material Requisition MRQ • Vendor Print Review • Technical Evaluation Reports

Reference Details

Name	Ahmed Fouad
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Position	Projects Manager
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HAZOP Engineering Study for El-Bassant Compression Station – One Train

Client	WASCO
Project Description	HAZOP Engineering Service for EL-BASSANT Compression Station – ONE TRAIN
Year of Execution	2013
Scope of Work	• HAZOP Study • HAZOP Report

Reference Details

Name	Said Anas
Company	WASCO
Position	E&I Assistant Projects Manager
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HAZID Engineering Study for El-Bassant Compression Station – One Train

Client	WASCO
Project Description	HAZID Engineering Service for EL-BASSANT Compression Station – ONE TRAIN
Year of Execution	2013
Scope of Work	• HAZID Study • HAZID Report

Reference Details

Name	Said Anas
Company	WASCO
Position	E&I Assistant Projects Manager
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SIL Study for El-Bassant Compression Station – One Train

Client	WASCO
Project Description	Safety Integrity Level (SIL) Determination by using Layer of Protection Analysis - simplified process risk assessment "LOPA" for EL-BASANT Compression Station –ONE Train-
Year of Execution	2013
Scope of Work	• SIL Meetings • SIL Report

Reference Details

Name	Said Anas
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Construction Work & Pre-Commissioning for 16” & 24” Underground Gas Pipeline

Client	NATGAS
Project Description	Construction and pre-commissioning work for 16” &24” underground gas pipelines at 6thof October city
Year of Execution	2014
Scope of Work	• Pipeline rout survey • Material handling • Stringing, welding • Radiograph • Coating • Trenching • Sand bed • Backfilling • Reinstatement hydro-test • Nitrogen purging • Cathodic protection activities

Reference Details

Name	Osama Morshd Saleh
Company	NATGAS
Position	General Manager of Engineering Affairs
Phone	01223967220

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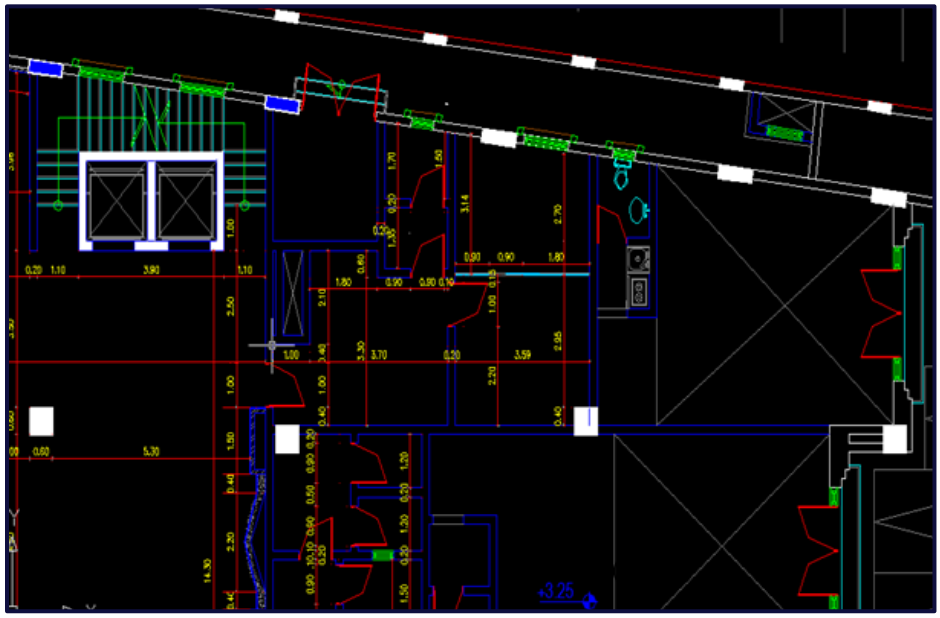
Engineering Review and Detailed Engineering Design of DAMMAM Hotel Residential Apartments



Client	SOLIMAN SALEH ALMOHILEB & SONS HOLDING COMPANY
Project Description	Engineering Documents Design for El-Dammam Hotel Apartment
Year of Execution	2014
Scope of Work	• Design Review • Shop Drawings

Reference Details

Name	Dr. Eng. Ahmed El-SHEEMY
Company	SOLIMAN SALEH AL-MOHILEB & SONS HOLDING
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Mechanical Construction Work of El-Bassant Compression Station – One Train

Client	WASCO
Project Description	El WASTANI petroleum company Wasco owns and operate a wet gas concession located to the North of Nile Delta, Egypt, consists of a number of produced wells gathered and sent to the main treatment facilities, the produced gas is wet and sweet. The pressure of some wells tends to decrease as of 250-450 PSI, due to operational reasons it's required to increase such wells pressures to be within 900-1100 psi, the proposed location for the compression station with its associated facilities will be defined by client.
Year of Execution	2014
Scope of Work	• Piping installation • Steel structure works fabrication and installation • Equipment installation • Piping support installation

Reference Details

Name	Osama Morshd Saleh
Company	NATGAS
Position	General Manager of Engineering Affairs
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Mechanical Construction Work of El-Bassant Compression Station – One Train (Continued)

Provision of Chemical Cleaning and Fuel Flushing for Egyptian Electricity Holding Company (Port Said)

Client	Hassan Allam Sons Holding
Project Description	Provision of Chemical Cleaning and Fuel Flushing for Egyptian Electricity Holding Company (Port Said)
Year of Execution	2015
Scope of Work	• Provision of Chemical Cleaning service for the Liquid Fuel lines • Provision of Fuel Flushing service for the Liquid Fuel lines

Reference Details

Name	Mohammed Allam
Company	Hassan Allam Sons
Position	Site Manager
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Phone	01001721115

Double Deck Floating Roof Tank Design

Client	Al Amreya Petroleum Company
Project Description	Double Deck Floating Roof Tank Design
Year of Execution	2016
Scope of Work	The project scope is designing and detailing of floating roof tank with diameter 30 m. in accordance with API 650 12th edition.

The project scope includes the following activities:

- Performing the required buoyancy calculations.
- Performing the required roof supports design.
- Performing roof upper deck stiffening design.
- Performing roof venting calculations (Bleeder vent, Rim vents)
- Performing the emergency drain calculation for the tank roof.
- Performing evaporation loss calculation for the tank.
- Issuing all the required roof Detailed Drawings Package including the Following deliverables:
    - Roof General Arrangement & orientation.
    - Bottom & Top Deck Details.
    - Roof Compartments & Roof Supports Details.
    - Emergency Drain details.
    - Bleeders & Rim Vent Details.
    - Guide Pole & anti-rotation system details.
    - Drain Sump details.
    - Gauge Hatch.
    - Entrance & Pontoon Manhole Details.
    - Rolling ladder details.

Reference Details

Name	Waleed Khamis
Company	EMC
Position	Acting Sector Manger.
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Complete Pumping System for Disposing Well

Client	El Hamra Oil
Project Description	Design, Supply & Installation of a complete pumping system for disposal well at alamein fields
Year of Execution	2017
Scope of Work	• Conduct site survey to check foe EHO equipment and the required system • Design, Supply & Install a complete pumping system for disposal well at Alamein fields • Supply the required power source to run this system • All the supplied material needed for the manufacturing to be with USA or European origin • Engineering and Documentation design, material specification, manufacturing detailed drawings, material test certificates, stander installation and operation, etc. to be submitted prior to the start of manufacturing and at the end (if any of them has been edited). • Pre-commissioning, commissioning and startup • Spare parts for one year

Reference Details

Name	Ashraf Kaoud
Company	EMC
Position	Project Manager Engineer
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Relocation of Shams Nodal Compressor to Tarek Field

Client	Khalda Petroleum Company
Project Description	Engineering work for transferring Shams Nodal Compressor At new location
Year of Execution	2017
Scope of Work	Performing the off-skid scope, design shall be safe and fit for purpose and as per company & industry standards. • Piping activities • The routing, stress analyses and supporting of the 6” vent line with total length 100-meter end-up with vertical pipe 6-meter height “as advised by KPC” and shall be Included in the Piping deliverables

Reference Details

Name	Ashraf Salah
Company	KHALDA
Position	Projects GM assistant
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Unified UAE Subsidiary

Engineering Work of ESD System for Meleiha Manifolds

Client	AGIBA
Project Description	Upgrading Meleiha production facilities to debottleneck the production manifold and re-route the existing trunk lines which connected direct to process facilities in addition to install common ESD system at the plant inlet.
Year of Execution	2018
Scope of Work	• Master Document Register • Master schedule Plan • Site visit and issue site visit report • List of Applicable Codes and Standards • Construction Package (Civil, Mechanical, Electrical & Instrumentation) • CAPEX Cost Estimate • Issue weekly and monthly report • Issue base of design • Develop and update PFD • Issue P&ID's • Issue Material Selection Report • Hydraulic Calculation Report • Tie in Schedule • Safety equipment layout including escape route • Incorporate HAZOP report recommendation • Issue plot plan drawing for the new area • Issue piping general arrangement drawings GA's • Piping Material Specifications • Issue Isometric Drawings • Issue Piping & Valves bulk MTO &MRQ • Issue stress analysis report for Critical lines • Issue piping supports detailed Drawings • Issue line designation table • Issue Tie-in list • Issue typical detail drawing for crossing. • Issue painting specifications for A/G piping • Issue line list & Control philosophy • Emergency Shutdown Philosophy • Instrumentation, Automation Block Diagram • Causes & Effects Matrix • Junction boxes wiring diagram • I/O list & Control Loop (Typical) • Instrument list • Instrument Cable list & Layout

- Instrument Cable routing layout
- Instrument Hook-Up Sketches
- Supply specification for instrument bulk material
- MRQ for instrument bulk material
- Supply specification for instrument cable trays
- MRQ for instrument cable trays
- Supply specification for instrument cables;
- MRQ for instrument cables;
- Loose Instruments and valves data sheets (Control & Shutdown)
- Specification for loose instrument and valves (Control & Shutdown)
- MRQ for loose instrument and valves (Control & Shutdown)
- Issue Automation system functional specifications.
- Issue TDS for the integrated Automation system.
- Issue IDS for the integrated Automation system.
- Issue the supply specifications of the Integrated Automation System.
- Issue the MRQ for the Integrated Automation System.
- Issue lighting layout at the new manifold area including fence area
- Issue specifications of lighting poles and fixtures
- Issue specification of lighting switching to be controlled via photo cells
- Issue Single line diagram
- Issue Power cable sizing calculation and layout drawing
- Issue Earthing calculation and layout drawing
- Issue Electric bulk material MTO
- Issue Specifications for junction boxes and distribution panels
- Issue Electrical Equipment List
- Issue Hazards area classification
- General Layout and foundation plot plan.
- Issue Steel structure drawing of manifold skid
- Issue foundation drawings for new manifold
- Issue Pipe supports drawings.
- Issue civil work MTO

Reference Details

Name	Hesham Elshotoury
Company	Agiba
Position	Assistant General Manager
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AQP Tie-in for the Three Slug Catchers to the Compression Station

Client	Abu Qir Petroleum Company
Project Description	Engineering work for AQP tie-in for the three slug catchers to the compression station
Year of Execution	2018
Scope of Work	UNEPP will perform the off-skid scope, design shall be safe and fit for purpose and as per company & industry standards. • Piping interconnecting activities • Stress analysis activity • Sizing of the new piping • Civil engineering activity

Reference Details

Name	Ashraf Kaoud
Company	EMC
Position	Project Manager Engineer
E-mail	Ashraf.kaoud@emceg.com
Phone	01000890049

Engineering Work for GPC 10” Pipeline

Client	General Petroleum Company
Project Description	Installation of 10” oil pipeline from Bakr 1 to Al Hamad and from North Amer to South Amer for GPC
Year of Execution	2018
Scope of Work	The project scope includes the following: • The route Survey using total station and Engineering activities of the two pipelines • Design the two pipeline profiles • Design the two pipelines using CAESAR II software and handover a copy of the run out including Stress analysis, Thermal analysis, Expansion joint design …etc.) • Issue pipelines and Tie in’s isometrics

Reference Details	
Name	Wael Youssef
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Position	Mechanical Engineer
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Engineering Works for Raffinate Tank

Client	ETHYDCO
Project Description	Engineering works of a tank with its required auxiliaries and loading facilities to store and transport Raffinate product to trucks tanks.
Year of Execution	2019
Scope of Work	• Process activities • Mechanical activities • Electrical activities • Instrument & control activities • Piping activities • Loss prevention activities

Reference Details	
Name	Abdelaziz Elsayed Ahmed
Company	EMC
Position	Executive General Manager
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Engineering Study for Gemsa Offshore Platform Extension

Client	GEMSA
Project Description	Extension of the Offshore platform structure.
Year of Execution	2019
Scope of Work	• SACS Structural computer analyses including non-linear in place, spectral fatigue and seismic analyses. • Design package for the new extension including basis of design, drawings, material selection report, MTO, computer simulation model & detailed • Design package for the crane upgrading including drawings, material selection report computer simulation model, detailed installation procedure and recommendation for a suitable crane type. • Techno/economic study for drilling through the existing two legs A&B (Using the legs as a well conductors).

Reference Details	
Name	Mohamed Elsebay
Company	Gemsa Petroleum Company
Position	Projects Section Head
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Engineering Service for Civil & Firefighting of CPF Plant at S.Disouq

Client	EXPRO
Project Description	Engineering service for civil and firefighting of CPF plant at South Disouq.
Year of Execution	2019
Scope of Work	

A. Firefighting design

- Fire water demand calculation report and fire water network size calculation report.
- Selection of piping sizes & schedules for main & branched networks includes isolation valves & instruments.
- Fire water pumps calculation and selection.
  - Type of fire water pumps
  - Component of pump room (pumps & piping)
  - Control and operating sequence of (jockey pump & main pump)
- Fire water pumps package (jockey pumps and main pumps) datasheet/specifications.
- Fire water hydrants and monitors datasheet/specifications.
- Fire water tank datasheet/specification.
  - Firewater tank calculation and selection.
  - Tank size including filling, over flow & vent.
  - Sizing piping (filling, over flow & vent).
- Advise foam requirement for the condensate tank as per NFPA standard. Foam package datasheet/specifications, if required
  - Foam storage tank selection
  - Type of tank.
  - Accessories and connected instruments.
- Fire water system general arrangement drawing.
- Piping isometric drawings for firefighting network.
- Piping support drawings for firefighting network.
- Preliminary BOQ for firefighting network.
- Firewater Piping and Instrumentation Diagram (P&ID)
- Plot plan overlay of Fire Fighting System
- Particulars for meeting Egyptian standards/ codes
- Firefighting Control philosophy
- Fire zone layout
- Selection of piping supports.

B. Civil Work design

- Earthwork and site levelling
- All equipment foundations design
- Piles design
- Site entrances
- Concert culvert for the canal

Reference Details	
Name	Mukesh Panchal
Company	EXPRO
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Phone	+971 4 382 4191

Unified UAE Subsidiary

Floating Roof Tank PPC

Client	Petroleum pipelines company
Project Description	Engineering works for floating roof tank
Year of Execution	2019
Scope of Work	• Performing the required Buoyancy calculation • Performing the required roof supports design • Performing roof upper deck stiffing design • Performing the required roof venting calculation (Bleeder Vent, Rim, Vents) • Performing the emergency drain calculation for the tank • Performing evaporation loss calculation for the tank • Roof general arrangement &orientation • Bottom deck details • Top deck details • Roof compartments details • Roof supports details • Emergency drain details • Bleeders vent details • Rim vent details • Guide pole & anti-rotation system details • Drain sump details • Gauge hatch • Entrance manhole details • Rolling ladder details

Reference Details

Name	Nezar Saleh Hassan
Company	Petroleum pipelines company
Position	Mechanical design department manager
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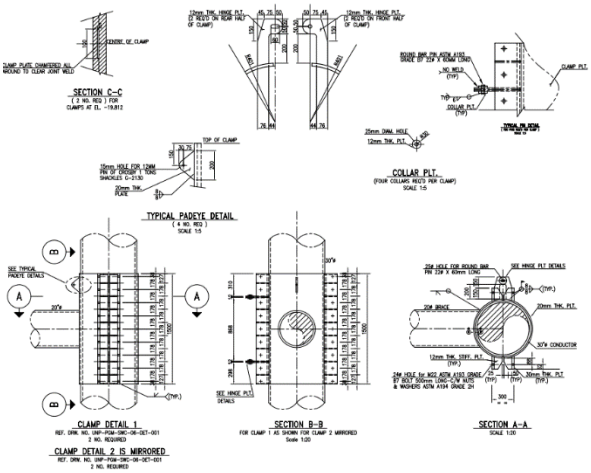
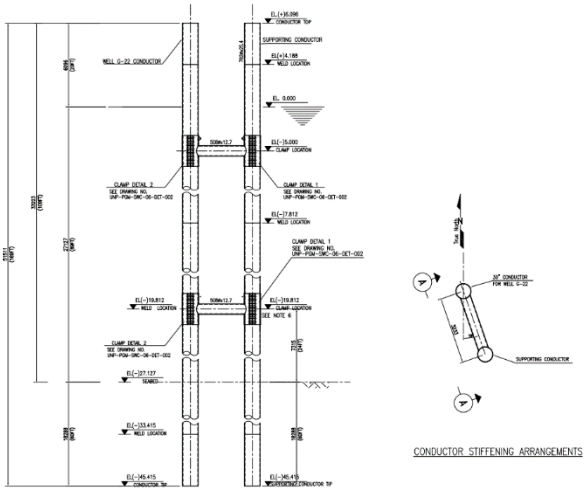
Engineering Study for PGM Well G-22 Conductor





Client	PetroGulf Misr
Project Description	Engineering Study for PGM Well G-22 Conductor (30”) that will be installed at water depth of 27.1 m in the Gulf of Suez.
Year of Execution	2020
Scope of Work	• Vortex Shedding Verification • SACS Computer Model Generation • Dynamic Analysis • In-Place Computer Analyses • Fatigue Computer Analyses • Seismic Computer Analyses • Conductor Stiffening and Clamp Design (Optional Scope) • Design Report

Reference Details

Name	Sobhi A. Baset Kafafy
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Unified UAE Subsidiary

EPICS of Early Production Facilities for New GNN Field Development

Client	PetroGulf Misr
Project Description	Phase I: Early Production Facility (EPF) for Three Years Period: – Conductor support structure "CSS" for 3 production wells (GNN3, GNN6 & GNN8) with a well bay supported by a MOPU. – MOPU is intended to be installed adjacent to EPF conductor support structure "CSS" and used for operating topside surface facilities and utilities. – The GNN production to be transferred to the existing WP-C platform via two coil tube(s). Transition phase: For Three Months Period: – The conductor support structure for the 3 production wells is freestanding (with no support from MOPU). – The transition phase between Phase I and Phase II is not a production phase. Production from the wells will be temporarily shut-in and the CSS shall be freestanding for a minimum period (3month) while the MOPU is demobilized and the permanent platform facility is installed. As no external units will be supporting the conductor during this phase. Phase II: Permanent facilities: – Will comprise a permanent platform to be installed adjacent to the three predrilled wells (CSS in Phase I). This platform will have capacity for 4/6 future wells and will include/support the existing three wells CSS. The platform shall also support all production facilities at this stage.
Year of Execution	2022
Scope of Work	Work Package 1 (WP-1): – The provision of Engineering, Procurement, Construction, Installation (EPC), and Certification by certifying authority of Wellhead conductors driving, well head conductors support Structure (CSS) with wells bay supported by MOPU which stand adjacent to the CSS to develop the COMPANY new offshore GNN field as required in Phase I. – SOW to complete Installation using his marine spread / jack up barge OR utilizing company available Jack-up drilling rig. – SOW to provide Third Party Certifying Authority the – following: a) Issuance of CSS Design appraisal. b) Issuance of CSS Certificates of Fitness. Work Package 2 (WP-2): – The provision of Engineering, Procurement, Construction, Installation, commissioning and start-up (EPCCS) for two submarine coil tube pipelines 4.5", topside surface facilities on MOPU and tie-in facilities on WP-C to develop the COMPANY new offshore GNN field as required in Phase, I. – SOW to complete Installation using his marine units. – SOW to provide Third Party Certifying Authority for the following: a) Issuance of CT. pipelines Design appraisal. b) Issuance of CT. pipelines Certificates of Fitness.

Reference Details

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Unified UAE Subsidiary

Engineering, Mechanical Commissioning, Decommissioning and Construction “ECC” Works for BALSAM Compression Station

Client	Wastani Petroleum Co. (WASCO)
Project Description	Dismantle and transfer FARASKUR Phase-1 compression station from FRASKUR site to el-BASSANT-2 site to divert Low pressure Balsam wells to the compression stations located at EL-Bassant-2 (with distance of 15 Km approximately) adjacent to the existing compression station, and will called BALSAM compression station at el-Basant site.
Year of Execution	2022
Scope of Work	1. Engineering works (complete basic and detailed design) 2. De-commissioning FR-PH-1 and Purging activity 3. Dismantling and transfer Package from Faraskur site to El-Basant site. 4. Construction and tie-in activities for piping, mechanical, steel structure, equipment installation 5. Commissioning and start-up
Reference Details	
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Conceptual and Basic Studies for SAFAYEH BS Treatment Station–SYRIA

Client	ARFADA Petroleum Co. -SYRIA
Project Description	Carry out the feasibility and basic engineering studies required to modify SFAYEH B.S. treatment station to ensure the produced products meets the required specification for the end users' refineries.
Year of Execution	2022
Scope of Work	1. Collecting Oil Sample by AGM & Perform complete oil assay and compatibility analysis. 2. Feasibility study with Complete Process Design of the station required modification 3. Basic engineering for the selected concept 4. Perform HSE Studies (HAZID, HAZOP, SIL, LOPA & QRA) 5. Procurement service 6. Construction Technical support (Option) 7. Pre-commissioning, Commissioning & Start-up plan and procedures. 8. Pre-commissioning, Commissioning & Start-up of the project (Option) 9. Complete design to tie-in Sfayeh B.S, production to Al-Rasafah pumping station located ~2Km to the north via new pipeline.