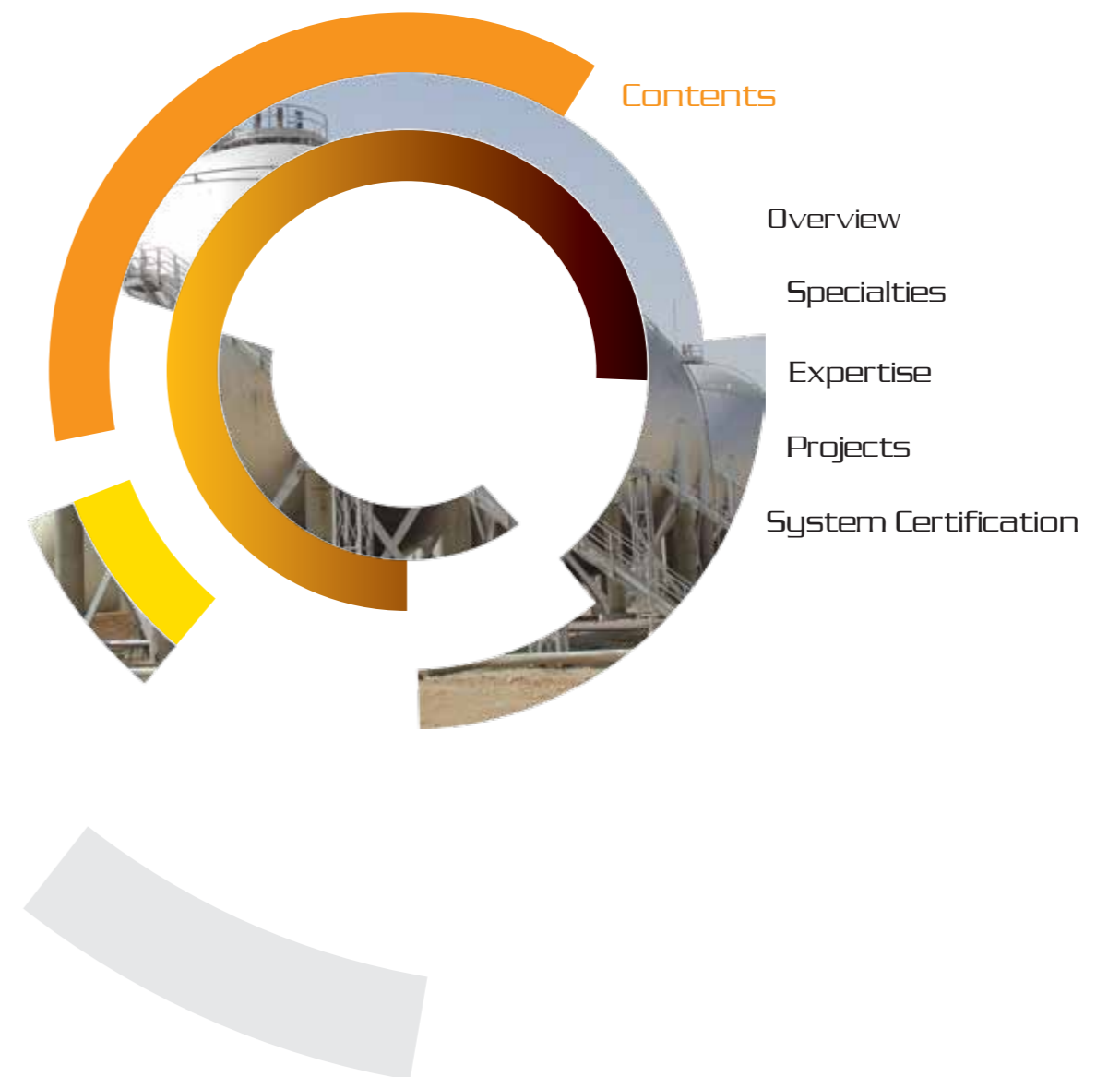


UNICO
PETROLEUM







Overview

UNICO Petroleum is an Engineering, Procurement, Construction, Commissioning & Start-Up contractor offering a wide variety of services to the Oil & Gas industry. This includes entire project design, supply of material & equipments, fabrication & erection works, project management, commissioning, operations and maintenance services in addition to training.

By providing a comprehensive range of services designed to deliver the high quality, and reliability in all of its projects, UNICO Petroleum has over the past 20 years become a major player in the Oil & Gas storage and transportation sector spanning across the Levant region countries.

Through its offices and affiliates in Lebanon, Syria, UAE, Czech, and Cyprus, UNICO Petroleum has successfully delivered around 25 projects covering Oil & Gas tanks farms, pipelines and pumping & Metering stations on independent or joint venture basis, all that while adhering to the highest safety standards adopted worldwide.



Specialties

UNICO Petroleum has a long tradition and renowned reputation as a true and reliable partner in design, procurement, construction and commissioning "EPCC" of oil & gas projects.

We offer a comprehensive range of expertise covering the entire project live cycle, from receiving the green/brown field site, through the basic & detailed design preparation, all the way to execution, start-up, and hand over.

Our work covers the following areas:

- **Pipelines for Oil, Petroleum Products & Gas**
 - Pumping & Compressing stations
 - Launching /Receiving, pipeline and block valves stations
 - Booster pumps Stations "Intermediate pumping stations"
 - MV/LV Electrical, Control, SCADA & Communication system
- **Tank Farms:**
 - Above ground storage tanks for Oil & Petroleum Products with fixed conical & dome, internal and external floating roofs
 - Spherical tanks for Liquefied Gas
 - Loading & unloading stations including Top/Bottom loading, pumps, safety & earthing devices
 - Automation, Tank management, Control & Firefighting systems
- **Fiscal Oil & Gas Metering Stations "FMS" Custody Transfer**
 - Filtration & Separation Stage (For Gas)
 - Skid mounted/ Nonskid Meter runs with proving system
 - Instruments pneumatic/gas feeding skids
 - Flow Computers, Flow calculation & Control systems
- **Gas Pressure Reduction & Metering Stations "PRMS"**
 - Heating, Filtration, Separation, and Pressure Reduction phases
 - Skid/ Nonskid Metering Runs
 - Fuel & Instruments Gas feeding skids
 - Flow Meters, Flow calculation & Control systems
- **Crude Oil Gathering Stations "OGS"**
 - Test, Filtration, Separation, and Heating stage
 - Compressors & Pumps, water injection stations
 - MV/LV Electrical, Control, firefighting equipment & systems



Expertise

UNICO Petroleum has extensive In-house experience in the following business areas.

Engineering

Basic & Detailed Design

- o Process philosophy design, Process model & heat calculations, Hydraulic calculations, PFD's, P&ID's, etc...
- o Topographic surveys, soil investigation, Plot plans, architectural & structural design, construction drawings, etc...
- o Mechanical calculations & design of tanks & pressure vessels, Mechanical & piping Arrangement, piping & equipment isometric drawings, pipeline Alignment sheets, pipeline classification and route maps, etc...
- o Fabrication & erection drawings for tanks, vessels, welding maps, welding & NDT procedures, etc...
- o Electrical load calculations, Project single line diagrams, Hazardous case studies, Terminal connection drawings, Cathodic Protection system Design, etc...
- o Control System Operation Philosophy, Functional Design Specification FDS, Cause & Effect chart, Communication system design, etc...



Expertise

Construction

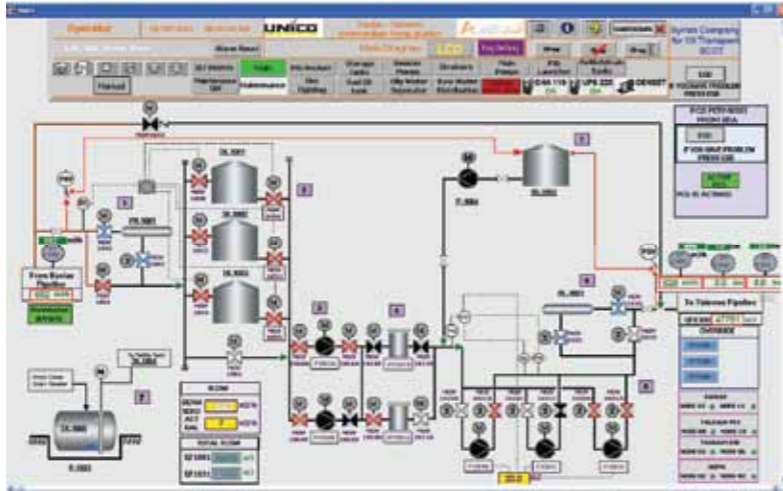
- o Site preparation, leveling, earth/concrete/steel works for building, equipments foundations & supports, and all other elements
- o Workshop & Onsite Fabrication of storage tanks
- o Erection of storage tanks, pipelines, pipes networks, and equipment & rotary machines installation
- o Electrical system installation including transformers, MV/LV switchgears and cabling
- o Control system installation & configuration
- o Communication, Safety and utility system installation & configuration
- o Testing and inspections of all works, and preparing Quality documentation/ Quality Manual & handbooks



Expertise

Horizontal Drilling & Boring

- o Horizontal drilling for passing pipelines & cables under roads, railways, and waterways.
- o Geotechnical investigation to determine proper and safe boring depth.
- o In-house capabilities for different size boring ranging from 6" for cables up to 48" for pipeline casing
- o Pipeline protection using special casing insulators and spacers
- o Cement injection in the gap between casing and Hole internal wall



Expertise

Commissioning & Start-up

- o Pre-commissioning plans, procedures, schedule, and sequence
- o Air and water hydrostatic tests for pipes, tanks, and pipelines
- o Nitrogen filling process for gas pipelines and stations projects
- o Simulations for process different cases, loop & signals check lists
- o Commissioning & Start-up plans, procedures, and Sequence
- o Applying project potential Emergency Shut Down cases "ESD"
- o Final modifications prior of AS-BUILT drawings issuance
- o Initial & official start-up, handover of the project



Edleb

Tank Farm

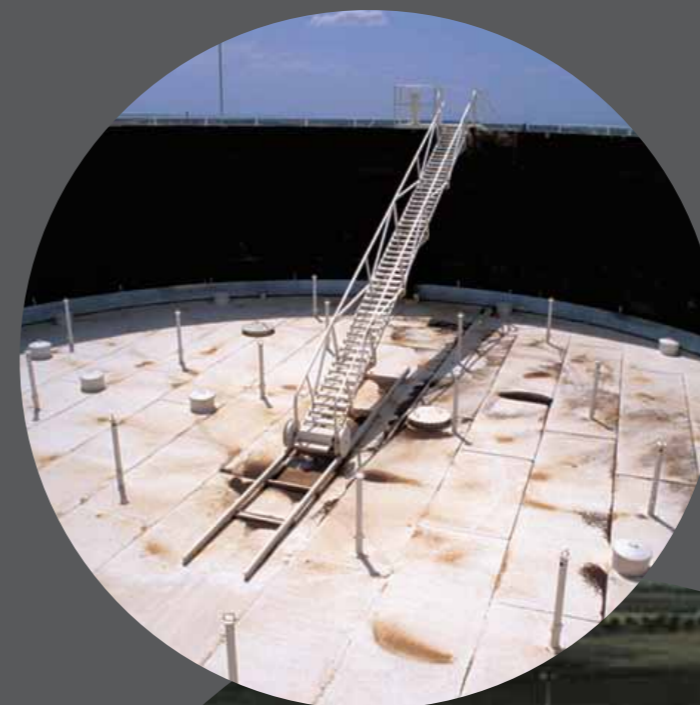
Engineering, Procurement, Construction, Commissioning "EPCC"

• Tank Farm in Edleb of 45,000 m² area and 65,000 Ton capacity:

- (5) Five Gas Oil Fixed Cone Roof storage tanks of 10,000 m³ each
- (3) Three Gasoline External Floating roof tanks of 5,000 m³ each
- Truck Loading station
- Control, Firefighting and Utility system



Project Duration
2000 - 2002



Homs-Banias Gas Pipeline

Engineering, Procurement, Commissioning
& Start-up

- Pig Launching / Receiving Stations
- Block Valves Stations
- Pressure Reduction & Metering Station
“PRMS” at Banias for 5 MSCMDD “Five
Million Standard Cubic Meter per Day”
for Natural Gas



Project Duration
2002 - 2005



Syrian Lebanese Gas Pipeline

Engineering, Procurement, Commissioning
& Start-up

- Pig Launching / Receiving Stations
- Block Valves Stations
- Fiscal Metering Station "FMS" at Syrian-Lebanese border for 3 MSCMD "Three Million Standard Cubic Meter per Day" of Natural Gas



Project Duration
2004 - 2007



Project Duration
2005 - 2007

Al-Dmeir-Ezra

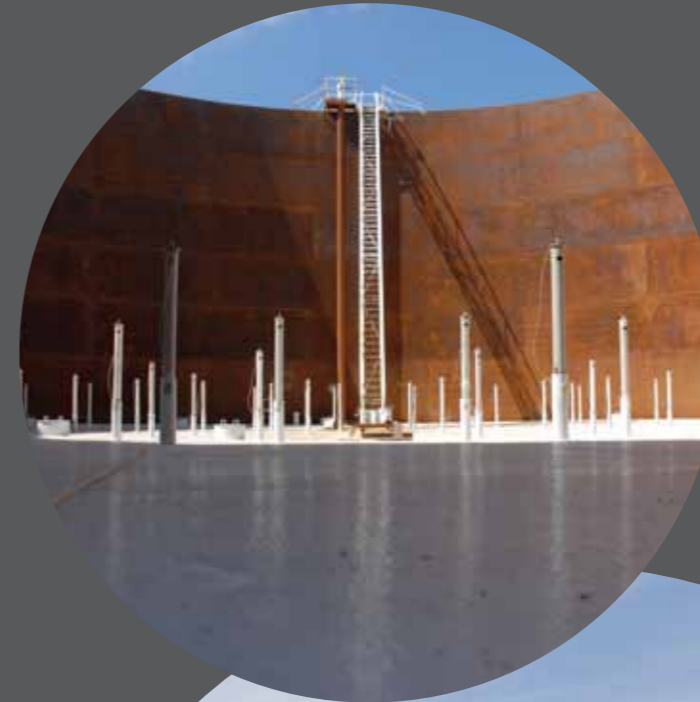
10" Pipeline for petroleum products with two tank farms

Engineering, Procurement, Construction, Commissioning & Start-up "EPCC"

- 10" x 140 km pipeline
- Pumping Station with Multistage horizontal pumps
- Two tank farms with a total capacity of 260,000 Ton comprising:

Ezra Tank Farms

- o Tank Farm in Ezraa of 70,000 m² area and 150,000 Ton capacity:
 - * (4) Four Gas Oil Fixed Cone Roof storage tanks of 30,000 m³ each
 - * (2) Two Gasoline External Floating roof tanks of 15,000 m³ each
 - * Truck Loading station
 - * Control, Firefighting and Utility system



Al-Dmeir-Ezra

10" Pipeline for petroleum products with two tank farms

Areeka Tank Farms

- o Tank Farm in Areeka of 50,000 m² area and 110,000 Ton capacity:
- * (3) Three Gas Oil Fixed Cone Roof storage tanks of 30,000 m³ each
- * (2) Two Gasoline External Floating roof tanks of 10,000 m³ each
- * Truck Loading station
- * Control, Firefighting and Utility system



Project Duration
2005 - 2007



LPG Spherical Tanks in Syria

Engineering, Procurement, Construction,
Commissioning & Start-up "EPCC"

- (3) Three Spherical tanks of 3,000 m³ each in Adra
- (4) Four Spherical tanks of 1,000 m³ each in Raka, Daraa, Hamah, and Edleb
- Pumping Station with Online vertical pumps
- Firefighting system



Project Duration
2006 - 2008



Al-Raqa Tank Farm for Petroleum Products

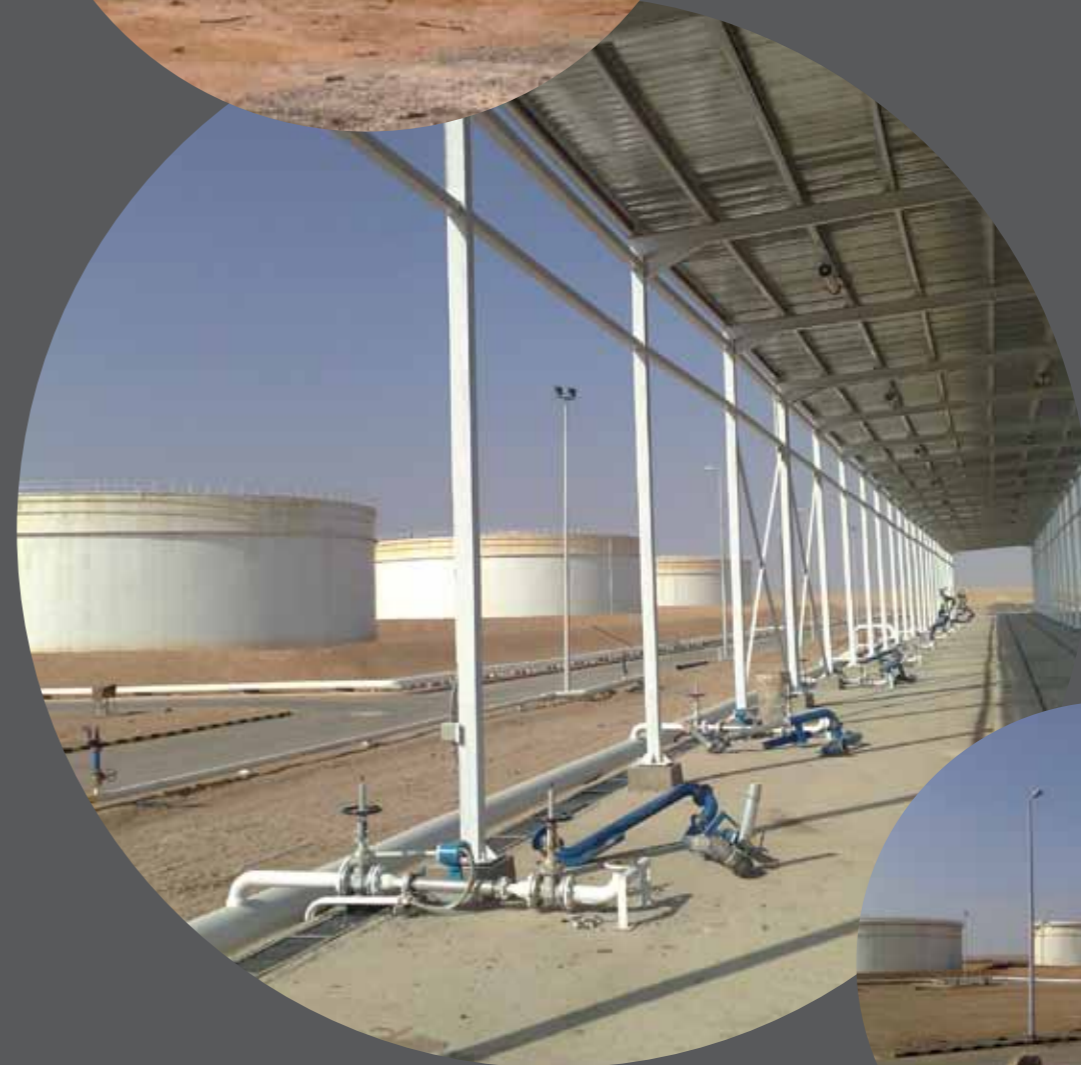
Engineering, Procurement, Construction,
Commissioning & Start-up "EPCC"

- Tank Farm of 65,000 m² area and 245,000 Ton capacity:

- (5) Five Gas Oil Fixed Cone Roof storage tanks of 40,000 m³ each
- (3) Three Gasoline External Floating roof tanks of 15,000 m³ each
- Rail truck unloading & Truck Loading station
- Control, Firefighting and Utility system



Project Duration
2007 - 2009





Intermediate Pumping Station at Tal Kalakh

Engineering, Procurement, Construction,
Commissioning & Start-up "EPCC"

- Pipeline booster pumping station with 1,400 m³/h flow rate, of 35,000 m²:
 - (3) Three buffer tanks, two of 5,000 m³ EFR, one of 5,000 m³ FCR
 - Booster Pumping Station with Multi stages inline Vertical & horizontal pumps
 - Medium Voltage Electrical system.
 - Control, Firefighting and Utility system



Project Duration
2008 - 2011



Project Duration
2009 - 2011

Arab Gas Pipeline

Engineering, Procurement, Construction,
Commissioning & Start-up "EPCC"

Gas Pipeline

- 36" x 60 km Gas pipeline between Aleppo/ Syria and Turkish border
- Pig Launching / Receiving Stations
- Block Valves Stations
- 48" casing x 50 meters boring under water irrigation concrete channel
- Total 200 meters length of 48" casing boring under main road, railways, and water pipes network





Arab Gas Pipeline

Fiscal Metering Station

- Fiscal Metering Station “FMS” at Syrian Turkish border for 9 MSCM “Nine Million Standard Cubic Meter per Day” of Natural Gas.



Project Duration
2009 - 2011



Project Duration
2011
 (under construction)

Homs Adra 18" Pipeline

for petroleum products with two tank farms



Engineering, Procurement, Commissioning & Start-up

- 18" x 180 km pipeline
- Pumping Station with online Multistage vertical and horizontal pumps
- Adra Tank Farm of 40,000 m² area and 80,000 Ton capacity including:
 - (8) Eight Gas Oil Fixed Cone Roof storage tanks of 10,000 m³ each
 - Truck Loading station
 - Control, Firefighting and Utility system
- Al-Dmeir Tank Farm of 35,000 m² area and 70,000 Ton capacity including:
 - (7) Seven Gas Oil Fixed Cone Roof storage tanks of 10,000 m³ each
 - Truck Loading station
 - Control, Firefighting and Utility system



Projects

1. Sulfuric Acid production plant For fertilizer complex
 - Construction, Commissioning & Start-up
 - Project Duration: 1993-1995
2. Phosphogypsum pipeline 18" x 15km HDPE pipeline
 - Engineering, Procurement, Construction, Commissioning & Start-up
 - Project Duration: 1995-1997
3. Water treatment plant for Phosphoric acid complex
 - Engineering, Procurement, Construction, Commissioning & Start-up
 - Project Duration: 1996-1997
4. Chloride Acid production plant for Paper complex
 - Engineering, Procurement, Construction, Commissioning & Start-up
 - Project Duration: 1998-2000
5. Baniyas HFO pipeline 12"x9.2 km, with Gas Oil Flushing system
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2001-2002
6. Aleppo Fiscal Metering Station for Natural Gas
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2002-2003
7. Adra Truck Loading Automation for 35 loading arms & tank management System
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2002-2003
8. Lattakia new Terminal & Management offices with 3x10,000 m³ fixed roof tanks
 - Engineering, Procurement, Commissioning
 - Project Duration: 2004-2006
9. Install flow meters for petroleum products pipelines & tank terminals in Syria
 - Engineering, Procurement, Commissioning & Start-up "EPCC"
 - Project Duration: 2004-2006

10. Expansion of tank Capacity in Homs, Edleb, Hamah, for Petroleum products
 - 3x10,000 m³ fixed roof gas oil tanks, 3x15,000 m³ floating roof gasoline tanks
 - Engineering, Procurement, Construction, Commissioning & Start-up "EPCC"
 - Project Duration: 2005-2007
11. Ship Re-fueling tank farm at Lattakia port with four tanks of 8,000 m³ total
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2006-2007
12. Ship Re-fueling tank farm at Tartous port with four tanks of 6,000 m³ total
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2006-2007
13. Pumping station for loading of trucks with petroleum products
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2008-2009
14. Heavy crude oil pipeline, 22" x 88 km pipeline, with modification of (6) six intermediate pumping stations
 - Engineering, Procurement, Construction, Commissioning "EPCC"
 - Project Duration: 2008-2010
15. Vitol Tank Terminal Vasiliko in Cyprus
 - Engineering, Procurement "EP"
 - Project Duration: 2012 (under construction)
 - o (3) Three Dome Aluminum roof Gas Oil storage tanks of 26,000 m³ each
 - o (1) One Dome Aluminum roof Gas oil storage tank of 21,500 m³
 - o (4) Four Dome Aluminum roof with Internal Floating roof Gasoline storage tanks of 21,800 m³ each
 - o (1) One Cone fixed roof Fame storage tank of 2,000 ³



Certificate of Approval

Awarded to



UNICO Petroleum S.A.L

(Zahle - Lebanon)

Qualitas International certify that the Integrated Quality Management System of the above supplier has been assessed and found to be in accordance with the requirements of the quality Standard detailed below

QUALITY STANDARD

BS EN ISO 9001:2008

SCOPE OF SUPPLY

Oil & Gas EPCC Projects

Engineering, Design, Procurement, Management, Construction, Commissioning, Operation & Start-Up of projects of Tank Farms, Pipelines, Metering Stations, Pressure Regulating Stations, Gathering Stations & Pumping Stations, In the field of: Oil, Petroleum Products, Natural & Liquefied Gas & Petrochemicals.

ORIGINAL CERTIFICATION DATE:

8 October 2013

Subject to the continued satisfactory operation of the supplier's Quality Management, this Certificate is valid till:
(Renewable upon successful audit result)

7 October 2016

For Qualitas International

John Smith

alfred Core

Certificate No: 159-13



BVI Registration No.1557369



UK C.H 8022548

www.accreditintl.co.uk

Certificate of Approval

Awarded to



UNICO Petroleum S.A.L

(Zahle - Lebanon)

Qualitas International certify that the Integrated Environment Management System of the above supplier has been assessed and found to be in accordance with the requirements of the quality Standard detailed below

QUALITY STANDARD

ISO 14001:2004

SCOPE OF SUPPLY

Oil & Gas EPCC Projects

Engineering, Design, Procurement, Management, Construction, Commissioning, Operation & Start-Up of projects of Tank Farms, Pipelines, Metering Stations, Pressure Regulating Stations, Gathering Stations & Pumping Stations, In the field of: Oil, Petroleum Products, Natural & Liquefied Gas & Petrochemicals.

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Awarded to



UNICO Petroleum S.A.L

(Zahle - Lebanon)

Qualitas International certify that the Integrated Occupational Health and Safety Management System of the above supplier has been assessed and found to be in accordance with the requirements of the quality Standard detailed below

QUALITY STANDARD

OHSAS 18001:2007

SCOPE OF SUPPLY

Oil & Gas EPCC Projects

Engineering, Design, Procurement, Management, Construction, Commissioning, Operation & Start-Up of projects of Tank Farms, Pipelines, Metering Stations, Pressure Regulating Stations, Gathering Stations & Pumping Stations, In the field of: Oil, Petroleum Products, Natural & Liquefied Gas & Petrochemicals.

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