



# PETROCIL

Engineers & Consultants Pvt Ltd

Ultimate Engineering Solutions

## Engineering Capability Presentation



- ❑ **Company Overview**
  
- ❑ **Capability Overview**
  - ❖ **Quality System**
  
  - ❖ **Technical**
  
- ❑ **Projects**



**PETROCIL**

Engineers & Consultants Pvt Ltd

## Mission

Continuously striving to improve the internal operation efficiency, ensuring company's competitive positioning and to improve productivity and all HSE aspects.

## Vision

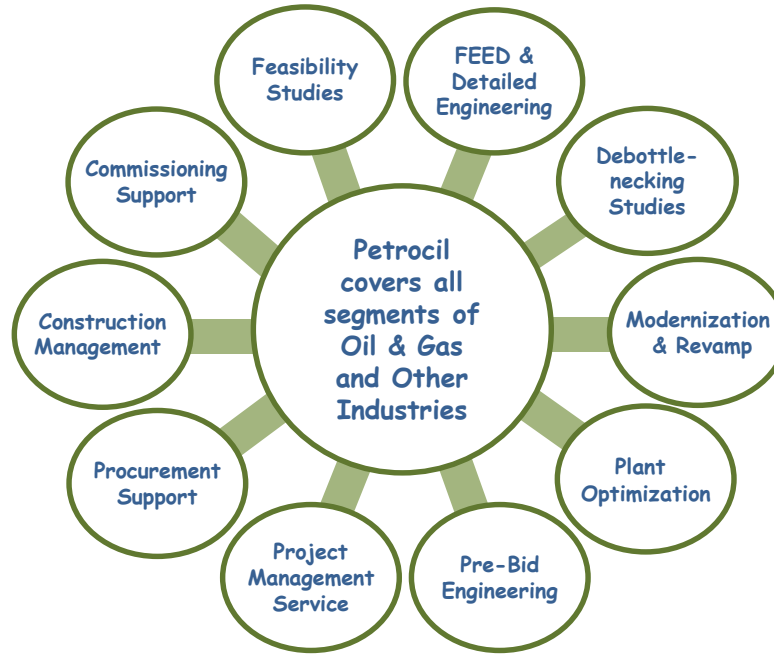
To be one of the most prestigious multi-disciplinary Engineering and Consultancy Organization with excellent credibility and cordial customer relationship.



- ❑ Est. 2008, professionally managed design and engineering consultancy.
- ❑ Over 110 projects executed till date.
- ❑ More than 200 Technically qualified professionals covering all disciplines such as Process, Instrumentation, Mechanical, Piping, Civil & Structural, Electrical, Corrosion, Rotating Machinery and HSE.
- ❑ Main operations in Middle East and India.
- ❑ Certified to ISO 9001:2008, ISO 14001:2004 by Quality Austria since 2012.
- ❑ In the process, gearing up for certification to ISO 9001:2015



## Petrocil Areas of Excellence



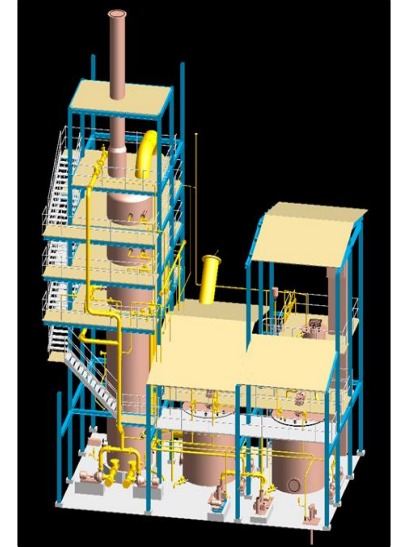
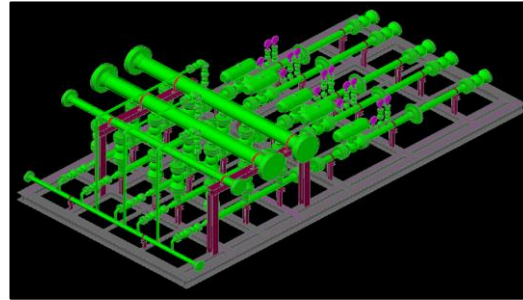
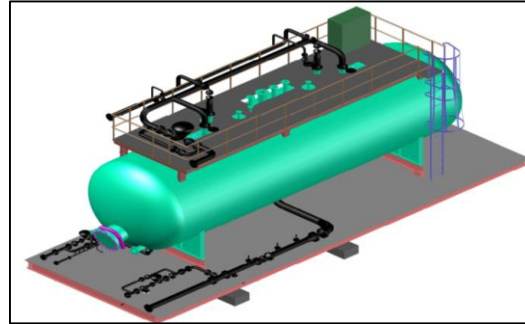
## Process Plants

- Gas & Oil Separation Plants
- Refineries
- Petrochemical
- Chemical
- Minerals
- Water



## Skid Mounted Systems

- ❑ Oil & Gas Production Manifold
- ❑ Production & Test Separator
- ❑ Degassers & Scrubbers
- ❑ Heat Exchangers
- ❑ Desalters



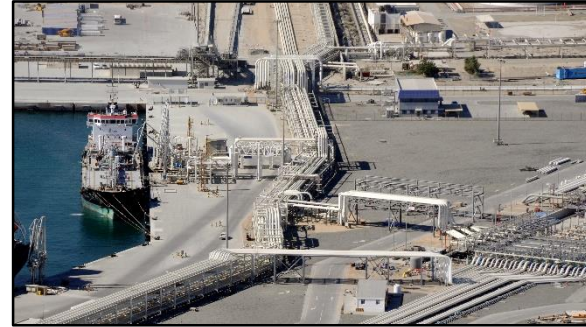
# Industries Served



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## Distribution

- Pipeline System
- Flowlines
- Pressure Boosting Stations
- Storage and Tank Farms
- Loading Arms







### QUALITY SYSTEM



#### ISO:9001-2008

Certificate No: AT-12060/0  
Valid up to 19<sup>th</sup> April 2018

#### ISO:14001-2004

Certificate No: AT-02786/0 ,  
Valid up to 19<sup>th</sup> April 2018

**In the process, gearing up for certification  
to ISO 9001:2015**

### TECHNICAL

A comprehensive Engineering Team with track record of delivering more than 110 global assignments successfully.

PETROCIL has all the major in-house Engineering disciplines.

- ❑ Process Engineering
- ❑ Piping /Pipeline Engineering
- ❑ Mechanical Engineering
- ❑ Instrumentation/Control Engineering
- ❑ Electrical Engineering
- ❑ Civil/ Structural Engineering
- ❑ Safety Engineering ( HSE/Loss prevention)
- ❑ Corrosion



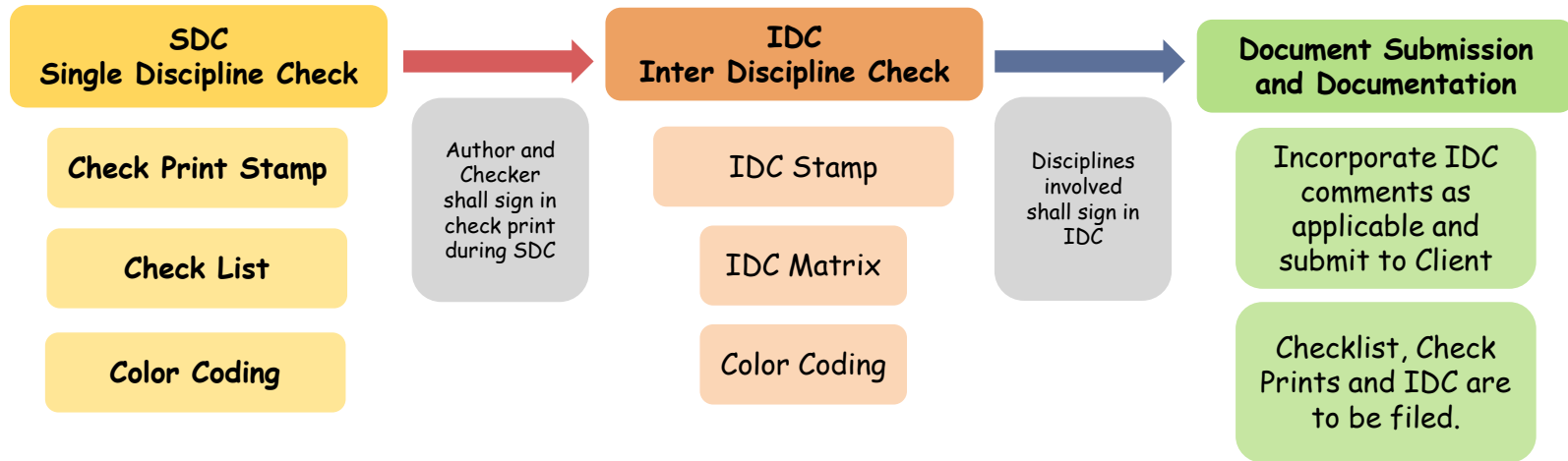
## QHSE Documents

- Integrated Management System Manual
- HSE Policy and Integrated Management Policy
- Integrated Management Objective
- Quality Management System Procedure
- Environment Management System Procedure
- CAD Drafting Manual

## Operating & Technical Procedures

- Departmental Procedure for all discipline
  - Process
  - Mechanical
  - Piping
  - Instrumentation
  - Electrical
  - Civil & Structural
  - Pipeline
  - Rotating Equipment
  - HSE
  - Corrosion
  - Drafting
- Document Numbering Procedure

❖ Guideline for checking of engineering deliverables



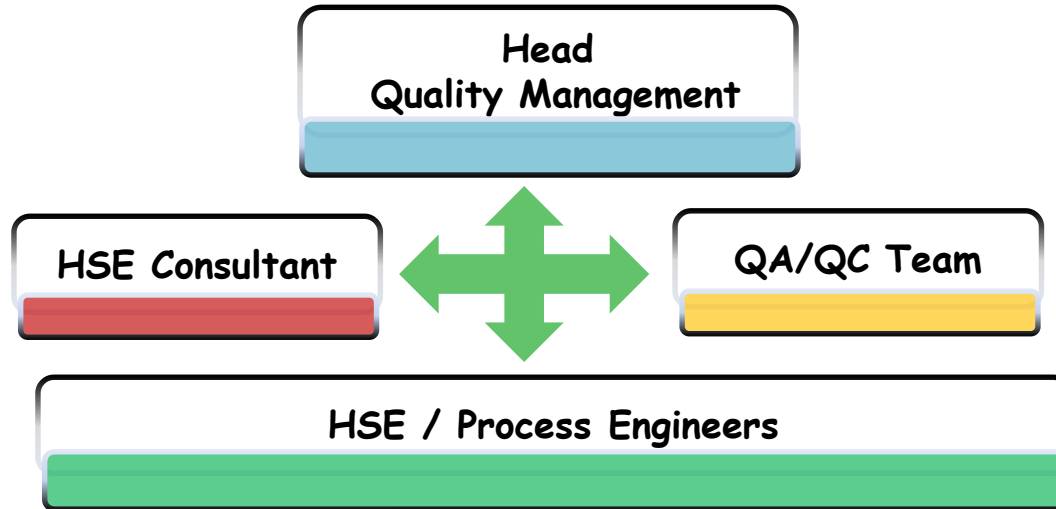


## SAFETY ENGINEERING

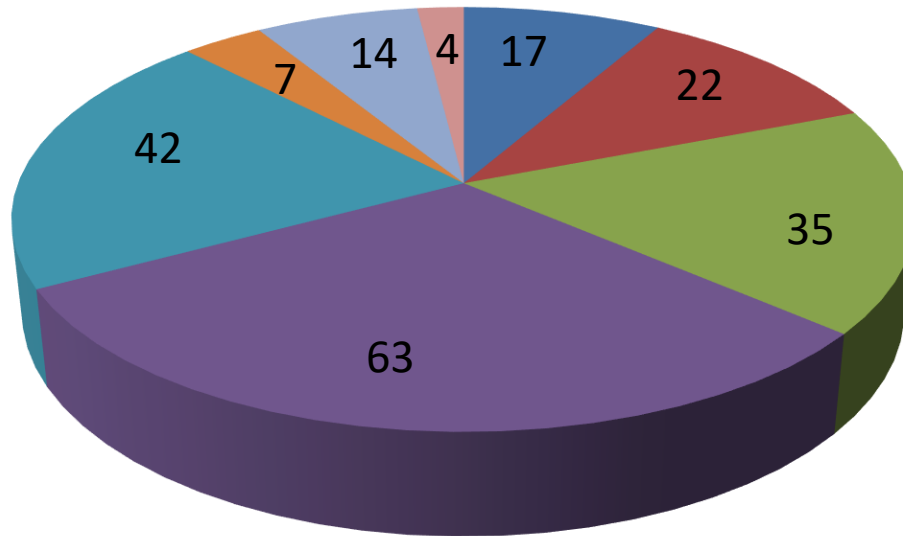
- Study Facilitation  
HAZOP, HAZID, SIL, EIA, QRA, PHASER, etc.
- Active and Passive Fire Protection Design
- Firefighting System Design
- Firefighting ground training System Design
- Blowdown / Flare Study
- Fire zone Identification and Fire & Gas Detection Study
- Gas Dispersion and Explosion Analysis

## SPECIALIST STUDIES

- Corrosion Risk Assessment Study
- Material Selection Studies
- Flow Assurance Studies



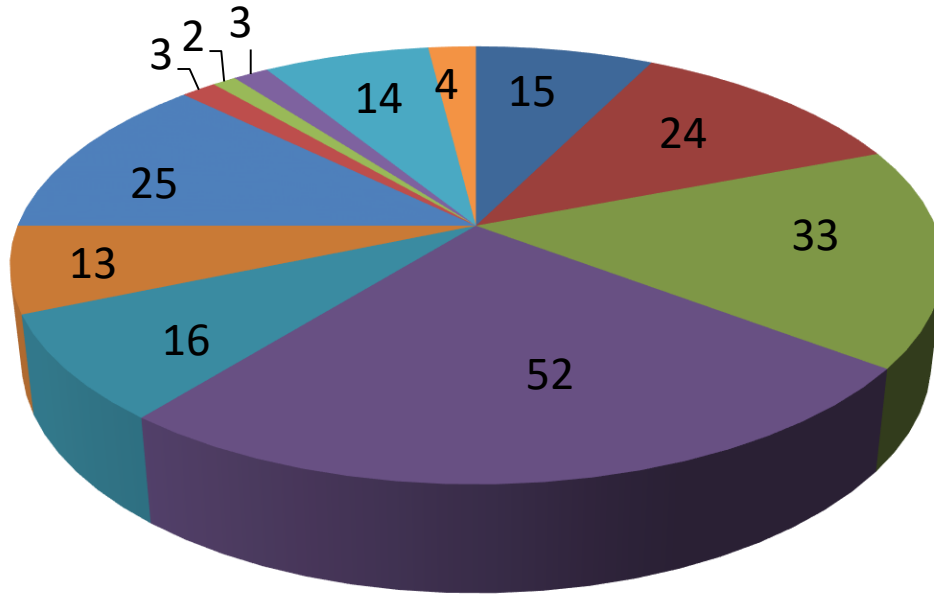
## Resource Summary



- Managers/HOD
- Lead Engineers and Specialists
- Senior Engineers
- Engineers
- Designers and Drafting Team
- Trainees
- Support staff (HR, Admn, IT, Finance)
- Management



- Project Management and Control
- Process
- Civil & Structural
- Piping & Pipeline
- Mechanical
- Electrical
- Instrumentation and Control
- Oil/Gas Process Specialist
- QA/QC
- HSE
- Support staff (HR, Admn, IT, Finance)
- Management

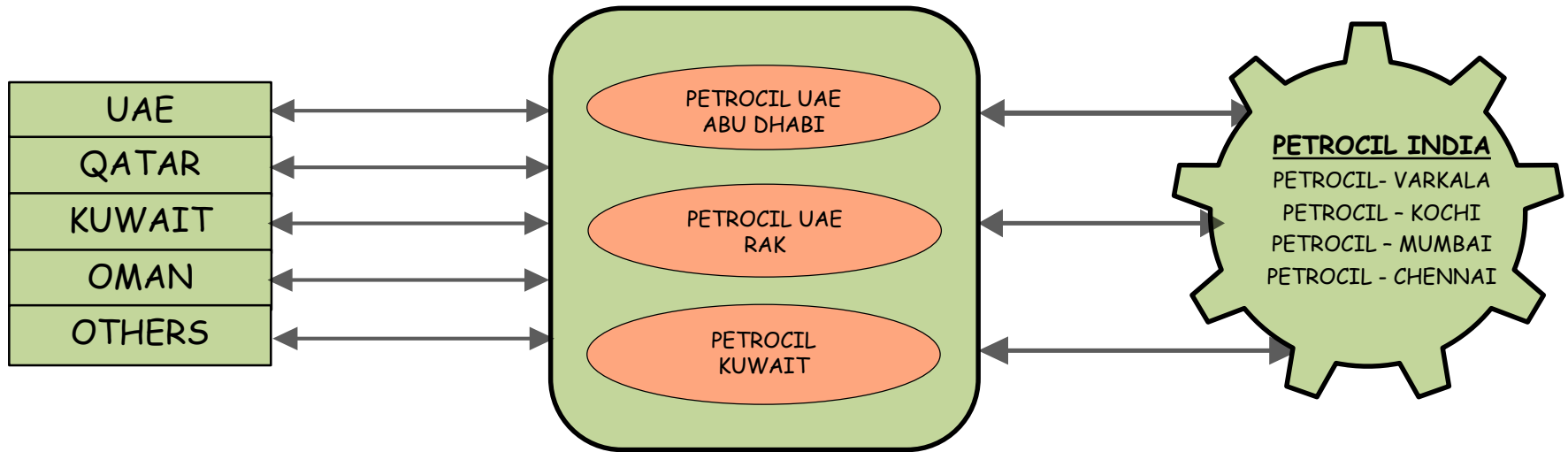


# Petrocil Working Structure



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Petrocil offers customers a technically qualified team of contact at the local level and focused teams to meet local needs.



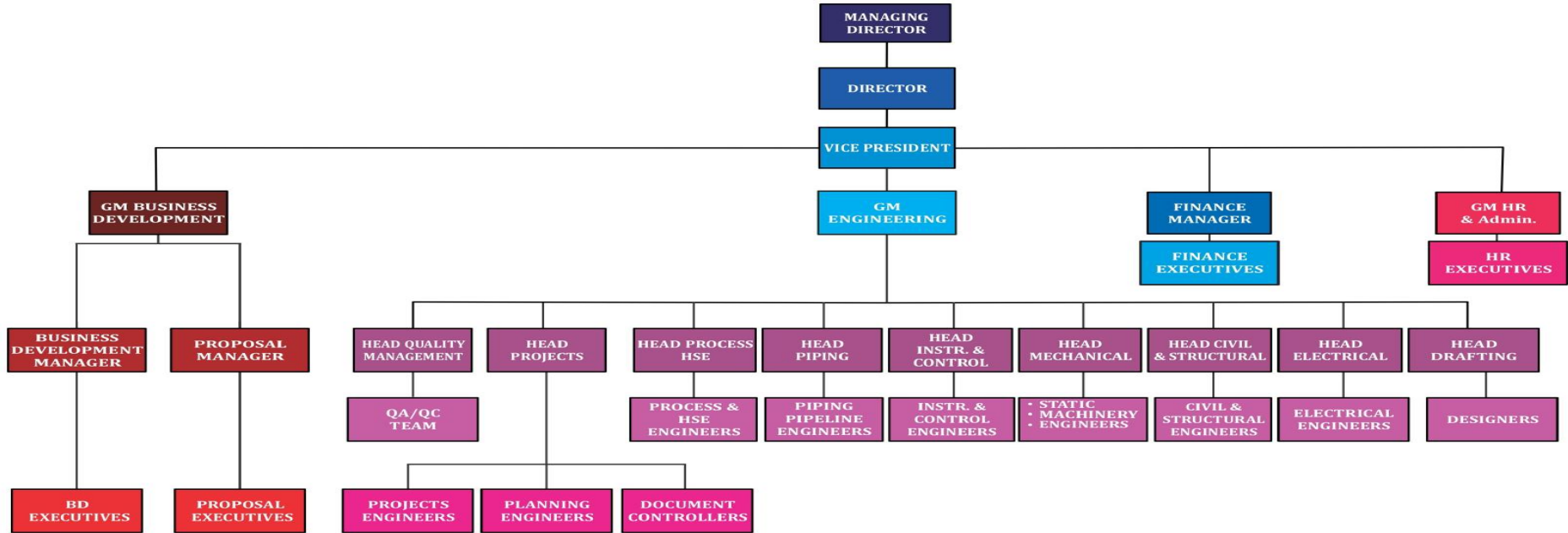


# OVERALL ORGANIZATION



# PETROCIL

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# Engineering Tools



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## Mechanical

CEASER II	Stress Analysis
PV ELITE	Vessel & Heat Exchanger Design
PDMS / CADWORX Professional	3D Modeling
Navisworks Manage	Modelling demo
Bentley Microstation	Drafting
ACAD (2D &3D)	Drafting

## Safety

PHAST	Dispersion Study
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## Process

<p><u>Aspen One Desktop</u></p> <ul style="list-style-type: none"> <li>• HYSYS (Steady State &amp; Dynamic)</li> <li>• Aspen EDR</li> <li>• Aspen Flarenet System Analyzer</li> </ul>	<ul style="list-style-type: none"> <li>• Process Simulation Sizing of PSV's, Orifice, etc.</li> <li>• Heat Exchanger Design &amp; Rating</li> <li>• Flare Network Study</li> </ul>
Pipenet Transient Module	Fluid Flow Analysis

## Material Selection

Honeywell Predict	Carbon Steel Corrosion Study
Socrates	Alloy Corrosion Study

## Civil

STAAD Pro/ STAADFoundation	Structural Analysis and Design
GT STRUDL	Structural modelling, Analysis, and design

## Instrumentation /Electrical

Instru Calc.	Sizing of Instruments
E-TAP	Electrical Circuit Analysis

## Project Management

Primavera	Project Planning & Control
WRENCH	Project Control & EDMS

KOC	
**Confidential**	
Qatar Steel Company	
GPS Chemoil	
ADOC	
TOTAL Lube	
Command Military Work	
SPETCO	
Enerflex	
GOFSCO	
**Confidential-1**	
**Confidential-2**	
**Confidential-3**	
**Confidential-4**	

## Business Associations

SHARAFCO	
MOTT MACDONALD	
KAR Refinery Erbil	
AFCONS	

IPIC	
ECOMAR	
MSK Group	
Sterling Wilson	

ETTIMAD	
SPARKLET	
TATA Projects	
Peninsular Petrotech	

Qatar Petroleum	
SNC Lavalin	
Mark Technologies	
TOPAZ Oil and Gas	
Binani Zinc Limited	
Saver Glass	
VTTI	
QVC	
Amec Foster Wheeler	
Tebodin Bilfinger	
Control & Applications	
Worley Parsons	
HINDALCO	
L&T	

# Major Projects- Kuwait



**PETROCIL**  
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SI. No.	Project Title	Client	Location	Year	Description
1	Oil & Water Treatment Upgrade for EPF-50 New Train	KOC (GOFSCO)	Kuwait	2018-Ongoing	Detailed Engineering for New Train of 2 stage desalter unit of capacity 55,000 BOPD and 15,000 BWPD effluent treatment facilities as part of increasing the production capacity of existing facility to 80 MBOPD oil and 210 MMSCFD gas production.
2	Replacement of 18" Fuel Gas Pipeline	KOC (Mark Technology Company WLL)	Kuwait	2018-Ongoing	Detailed Engineering for the relocation of approx. 1.7 km underground pipeline and tie-ins with the existing pipelines at both ends.
3	Pre-Bid Engineering Services for New Gas Sweetening Facility at BS-171 West Kuwait	KOC (SPETCO)	Kuwait	2018	Pre-Bid Engineering support for New Gas Sweetening Facility and Sulphur Recovery Unit at West Kuwait in Process, Instrumentation, Piping, Electrical, Mechanical, Civil & Structural and HSE
4	Chilled Water Piping Network	Al-Yousifi Engineering & Construction Co. W.L.L	Kuwait	2018	Preparation of shop drawings of Piping, Piping GAD, Stress Analysis (Caesar II) and Hydraulic Study (Pipenet)
5	WK GSF Expansion Works - New Train	KOC (SPETCO)	Kuwait	2017 Ongoing	Detailed Engineering to further enhance the capacity of the Gas Sweetening Facility by adding a new Gas Treating Train of 40 MMSCFD.

# Major Projects- Kuwait



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SI. No.	Project Title	Client	Location	Year	Description
6	WARA Pressure Maintenance Project	**Confidential**	Kuwait	2017 Ongoing	3D Modelling, subsequent design and engineering in Piping, Civil, Electrical, Instrumentation and HSE for EWDP -1, EWDP -2 and Manifolds/ well heads.
7	Design and Engineering for Jurassic Production Facility at West Raudhatain, North Kuwait.	KOC (SPETCO)	Kuwait	2016	Design and Detailed Engineering of Jurassic Production Facility (JPF3) at West Raudhatain to built to produce Crude Oil and treated gas with a capacity of 40 STMBOPD Crude Oil and 104 MMSCFD treated gas from the sour gas well fluids with an inlet maximum concentration of 4% (mole) H <sub>2</sub> s and 2% (mol) CO <sub>2</sub> .
8	Engineering Services for HOLTTF-2, North Kuwait	KOC (GOFSCO)	Kuwait	2016	Engineering Service for UN Heavy Oil Long Term Well Testing Facility is built for one train producing 15 STMBOPD Crude Oil and handling associated sour gas of 10 MMSCFD with maximum inlet concentration 5% (mole) H <sub>2</sub> s and 3% (mol) CO <sub>2</sub> .
9	Production facility at Kuwait	Confidential	Kuwait	2016	Fire fighting system design (Basic and Detailed Engineering)
10	Upgrading GSF to treat 50 MMSCFD gas	KOC (SPETCO)	West Kuwait	2015	Detailed Engineering Upgradation/ Enhancement work for upgrading GSF to treat 50 MMSCFD gas.
11	Heavy Oil Production - Temporary Facility for Kuwait Oil Company	KOC (GOFSCO)	North Kuwait	2015	Engineering Service for Heavy Oil Facility.

# Major Projects- Kuwait



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SI. No.	Project Title	Client	Location	Year	Description
12	Enhancement of existing EPF 50 at North Kuwait	KOC	Kuwait	2014	Basic engineering package services for the production enhancement included the preparation of P&ID, PFD, Simulation, Process Data sheets, Functional specifications for various packages such as Gas Sweetening Packages, Gas Dehydration package, Acid Gas incineration Package and Refrigeration Package.
13	40 MBOPD Long Term Testing Facilities(LTTF) for KOC	KOC (Gulfspic)	Kuwait	2014	Process Engineering for the Basic Engineering package for LTTF including Simulations, preparation of PFD, P&ID. Process Data Sheets for all equipment, Functional Specifications for various Packages such as Gas Sweetening Packages, Gas Incineration and Refrigeration, Hydraulic Studies, Plot Plan etc.
14	De-Bottlenecking study of Gas Sweetening Facility.	KOC (SPETCO)	West Kuwait	2014	To carry out process simulation for the inlet section as well as gas dehydration/ report with the specific design conditions and feed compositions. To obtain the simulation for amine plant from APL. To evaluate the critical equipment for adequacy based on new simulation report. To identify any bottlenecks. Evaluate various options for debottlenecking and suggest suitable modification to achieve new capacity of 50 MMSCFD. To provide technically sound and viable recommendations that are needed to reinforce the plant for operating continuously at the new capacity of 50 MMSCFD. To provide budgetary proposal for revamping the GSF to be capable of handling up to 50 MMSCFD gas instead of the contractually required 40MMSCFD gas.

# Major Projects- Kuwait



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SI. No.	Project Title	Client	Location	Year	Description
15	Validation of Gas Re-injection Project (GRIP) capacity change (From 30 to 60 MMSCFD)	KOC (SPETCO)	West Kuwait	2013	3rd party validation for Cost/size variation of Gas Re-injection Project (GRIP) capacity change (From 30 to 60 MMSCFD). Jpb involves identifying the equipment/ piping / instruments affected by capacity change and validate cost implication o enable KOC to approve cost variation.
16	Front End Engineering and Design for Revamp of Existing 50 MBOPD Early Production Facility Upgrade/ Revamp	KOC	North Kuwait	2012	Front End Engineering and Design for Revamp of 50 MBOPD Early Production Facility. The project envisages enhancing of production capacity of the pant from 135 MMSCFD & 50 MBOPD to 175 MMSCFD & 70 MBOPD and then to 210 MMSCFD/ 84 MBOPD.
17	Pre-FEED for new 50 MBOPD Early Production Facility (LTF).	KOC (SPETCO)	North Kuwait	2012	Performing Pre- Front End Engineering and Design for a new 50MBOPD Production Facilities for KOC to prepare the tender documents, deliverables including simulations, sizing of equipment, PDFD, PSD and MSD.
18	Preparation of Loop Drawings for TV, Gas Compression and Gas Reinjection Project	KOC (SPETCO)	West Kuwait	2012	Preparation of Instrument Loop drawings
19	Debottlenecking of Gas Sweetening Facility	KOC (SPETCO)	North Kuwait	2012	Feasibility studies on increasing Production capacity from 40 MMSCFD to 60 MMSCFD.
20	Sucker Rod Pumping System	KOC	Kuwait	2011	Pre-Bid Engineering Services

# Major Projects- Kuwait



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SI. No.	Project Title	Client	Location	Year	Description
21	Cold Heavy Oil Production with sand (CHOPS)	KOC	Kuwait	2011	Pre-bid engineering for the production facility of CHOPS.
22	Gas Compression and Gas Re-injection Project, GCP-GRIP	KOC (SPETCO)	Kuwait	2010	Project Management and Consultancy Services
23	120 MBOPD Early Production Facility for Ratqa and Abdali-NK	KOC (AL RASHID)	North Kuwait	2010	Zero Flaring Study, Preparation of Operational, Safety, Quality and other procedures.
24	Improvement and Modification of Power Distribution System in GC-23, NK	KOC (SPETCO)	North Kuwait	2009	Detailed Engineering for Diesel Storage Tanks



# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
1	Preparation of Loop diagrams & wiring diagrams	OilServ	UAE	2018	Preparation of JB Wiring diagrams, preparation & checking of the Loop diagram
2	Preparation of Maintenance Check Sheets for Poltava 600K SM3D Gas Plant	Enerflex	UAE	2018 - ongoing	Preparation of daily, monthly, half yearly, yearly and bi-yearly maintenance check sheets for the equipment's of the PJSC Natural resources Lutsenky Field, Poltova Oblast 600K SM3D Gas Plant.
3	Isometric Drafting Annotation Works	OilServ	UAE	2018	Support for Annotation/ cleaning up of Isometric drawings to issue directly to fabrication / construction team.
4	Pre-Bid Engineering Services related to Civil Structural works	Control and Application Emirates	UAE	2018	Prepare the required civil /structural drawings to provide clarity for the civil contractor on the scope and also to prepare MTO
5	IL & FS Prime Tank Terminal Phase II, Pre - Bid Engineering Support	Cylingas	Fujairah	2017	Review & Validation of P&ID's, PFD's, procurement support for Pumps, skids / package items.
6	Process Design Review	Cylingas	Fujairah	2017 - ongoing	Review & validation of process calculation, data sheet, P&ID, PFD, UFD etc

# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
7	Gas Plan Facility - E&I	Confidential	Egypt	2017	Scope of Electrical & Instrumentation like lighting layout, cable block diagram, cable schedule, lighting datasheet, F&G datasheet, PAGA speaker system etc.
8	Khubai Pipeline and Plant Connection	Amec Foster Wheeler	Dubai	2017	Steady state and transient flow assurance analysis for the 10-inch 14 km Khubai Wellpad to Margham Plant pipeline to evaluate its slugging potential as well as estimate the minimum temperature during depressurization
9	Engineering Services for Tank Terminal Project in Sharjah, Hamriya Free Zone	Sharafco (ALSA)	Sharjah	2015	Detail engineering services for the EPC of new tank terminal having products like Diesel Oil and Base Oil. The scope envisages the complete piping network for product lines along with Service water and Instrument air network. FEED verification for the process related deliverables is also included in the scope.
10	Engineering Services for Pipeline works at Petroleum Regeneration and Processing Facility Project in Fujairah Free zone.	Ecomar (ALSA)	Fujairah	2015	Design and engineering services for the pipeline works for the PRPF project. The project envisages the engineering support for 2.5 km pipeline from the Ecomar Facility to the Port of Fujairah. The related process, piping, pipeline and civil scope is included. 1.3 kms of the pipeline is underground service and 1.2 kms is above ground. There are total of three product pipelines and one nitrogen pipeline, each of which is 2.5 kms long.

# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
11	GASCO upgrading of substation-19 at MAQTA FEED	GASCO (Litwin PEL)	Abu Dhabi	2014	Power System Study by using ETAP Software A. Upgrade system model of the electrical equipment for substation -19 and control room B. Load Flow Study C. Short Circuit Study D. Voltage drop during normal and during largest motor starting E. Motor start study (For 288 KW-FW-FW Supply pumps - Existing 2 Nos.)
12	Engineering for EPC works for Fire Training Ground at MPS-Habshan	ADCO IPIC - UAE (ALSA)	Habshan	2014	Complete design and engineering of the fire training ground located at Habshan. The disciplines involved were Process, Piping, Mechanical, Civil, Structural, Instrumentation and Electrical. The facility consisted of Simulator Tank, Fuel Tank and Pumps, Shelters, Fire Reel Hoses, Monitors, Hydrants etc. Activities included in Petrocil scope were P&ID's, Safety Layouts, Data Sheets, Design Calculation of equipment, Piping detail drawing generation, Structural Pipe Support Design & Drawings, Equipment foundation design, Pipe Support Foundation design, Structural Design for various sheds and shelters, Electrical Data Sheets & Specifications, Lighting & Earthing Design and Layouts, Single Line Diagrams, Instrument Data Sheets, Instrument Cable routing & Layout, Modification of CCTV & PAGA system, Discipline MTO's, etc.

# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
13	EPC Work for Reconnecting & upgrade CRS for Al Mirfa Power Company in Al Ain for Dolphin Energy	Dolphin Energy (ALSA)	Al Ain	2014	Detailed Engineering for piping, electrical & instrumentation specifications, foundation design and drawings, structural design and drawings, grading layout, slab calculations etc.
14	Black Powder Management Project - New Separation and Filtration System	GASCO (FALCOR)	Abu Dhabi	2014	Design and Engineering services for Filters 819-F-101A/B (EMAL Filter) which included preparation of Stress Analysis Reports for the piping system, Line Sizing Calculation reports for Piping Systems, Depressurisation Calculations for the filters and Dispersion Study for the Filters.
15	Engineering Services Support	ENOC/EPPCO (Nico International)	Fujairah	2014	Survey and As- built Services for the entire EPPCO Terminal Facilities located in Fujairah.
16	Engineering Services Support	VTTI	Fujairah	2014	Survey and As- built Services for the entire VTTI Fujairah Terminals facilities consisting of two tank farms for different products.
17	Enhancing capacity of Terminal 1 and New pipeline	NICO International	Fujairah	2013	Culvert Design, pipe sleeper design, pipe support design, foundation design, adequacy check for existing structures, pump foundation design, access way and platform design.

# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
18	EPC for additional manifolds at RDS 1&5 in ADOC	ADCO (ALSA)	Abu Dhabi	2013	Detailed engineering including pipe support structural design, pipe support structural design drawings, pipe support foundation design, pipe support foundation design drawings, access platforms design and detail drawings.
19	Fabrication of Manifolds- ASAB Fields in ADCO	ADCO (ALSA)	Abu Dhabi	2013	Detailed engineering including pipe support structural design, pipe support structural design drawings, pipe support foundation design, pipe support foundation design drawings, access platforms design and detail drawings.
20	Instrument Modification in ASR gas Facilities - ADCO	ADCO (ALSA)	Abu Dhabi	2013	Datasheets for instruments, cable schedule, cable layouts, loop diagrams, inter connection diagrams, I/O Lists, Cause and Effect Diagram, Instrument MTO, P&ID modifications etc.
21	Artificial Recharge and Utilization of Ground Water Resources in Liwa Area	TRANSCO	Abu Dhabi	2013	Technical Document review of all process/hydraulics related documents and corresponding co-ordination of Technical Document Review
22	Design and Detailed Engineering For Enhancing Capacity Of Terminal 1 And New Pipeline From D3 Header At VTTI	VTTI	Fujairah	2013	Detailed Engineering and Design for Pipeline from Storage Tanks to Export pumps and Export headers and its associated process, instrumentation, electrical and civil systems.
23	Flow rate study for export pumps at GPS Chemoil	NICO International	Fujairah	2013	Preparation of a flow rate study report for the export pumps at the GPS Chemoil terminal. The study included findings, conclusions and recommendations for the low flow rate of the export pumps.

# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
24	Engineering Services Support	ADOC (ALSA)	Abu Dhabi	2012-2013	Survey and As- built Services for ADOC Offshore Facilities, Mubaraz Island
25	Detailed Engineering for Hazop Implementation Project	Takreer (Gulf Coast)	Abu Dhabi, Um al Nar	2012-2013	Design and Engineering for turn key implementation of Hazop study recommendations and plant modifications at Abu Dhabi refinery
26	Detailed Engineering for Replacement of Acid Gas KOD and associated systems	GASCO (Trans ME)	Abu Dhabi	2012-2013	Engineering for Replacement of Acid Gas KOD and Associated piping, instrumentation & controls, civil/structural Systems
27	Engineering Services Support for GPS Chemoil Tank Farm Project	GPS Chemoil	Fujairah	2012-2013	Preparation of Operation, Maintenance & Start-up, Shutdown and Commission Manual, As Built Services
28	Engineering Support for Sour Water Project	GASCO (Falcor)	Abu Dhabi	2012	Engineering, Study & development, PFD, H&MB in HYSYS and related software. Simulation reports taking into consideration all cases agreed by GASCO. Stripper Pall rings calculation report.
29	Design and Engineering Services for Total Lube	Total Lube	Jebel Ali	2012	Design of Storage tanks and Related Piping design, support design, etc

# Major Projects- UAE



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SI. No.	Project Title	Client	Location	Year	Description
30	Detailed Engineering and Studies for Piping Network for SaverGlass Plant & Pressure Vessels	SaverGlass	Ras Al Khaimah	2012	Detailed Engineering and Studies for Piping Networks, Conceptual and Development of Piping Layouts, Isometrics, Supports for Glass Manufacturing Plant. Design and Detailing of Pressure Vessels
31	JET A1 Aviation Fuel Storage and Handling Facility for ZIRKU Airport	ZADCO (Ramboll)	Abu Dhabi	2011	Review of Engineering Documents for ZADCO
32	Diesel Storage Tank Farm and Distribution Project	CMW (Dorsch)	Abu Dhabi	2011	Based On The Conceptual Design, Feed Stage Design was Developed for Tank for the tank farm and distribution network. Deliverables including PFD, P&ID, Line Size, Equipment sizing, instrumental & control related deliverables, electrical deliverables, civil and structural deliverables, piping deliverables, layout freezing etc.
33	Zero Liquid Discharge Project (ZLDP)	FRCL	Fujairah	2009	Front End Engineering and Design (FEED)
34	Detailed Engineering for Cooling Water Replacement Piping project	JINAN LLC	Abu Dhabi	2007	Design basis, Equipment layout, pipe GA drawings, isometric drawings, stress analysis, tie-in list, piping MTO
35	Detailed Engineering for Blow down study project	JINAN LLC	Abu Dhabi	2007	Hydraulic study and line sizing, piping GA drawings, isometric drawings, stress analysis

# Major Projects- Qatar



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SI. No.	Project Title	Client	Location	Year	Description
1	Fabrication Drawings for Tanks	TRAGS	Qatar	2017	To develop fabrication drawings for 5 Nos of API 650 Tanks
2	Engineering services of NG Filter package	Peninsular Petrotech	Qatar	2017	Performing Residual Engineering including stress analysis, pipe support and its foundation, filter foundation, Electrical & Instrumentation trench sections modifications, Lighting Facility at NG filter location etc
3	Basic And Detailed Engineering Of QAPCO WWTP Power Distribution & Control System	QAPCO (Peninsular)	Qatar	2016 ongoing	The additional work of EPCC of WWTP Power Distribution & Control System Project has to be integrated and aligned with WWTP Revamp Project in terms of schedule, in such a way so as to cause no interference to existing operations
4	Engineering Service for waste water treatment plant expansion project at QAPCO	QAPCO (Peninsular)	Qatar	2016 ongoing	Design Engineering Service for waste water treatment plant at QAPCO.
5	Design and Detail Engineering Services for the EDC Sales Storage tank facilities	Qatar Vinyl Company (QVC) (Ettimad)	Qatar	2014	Design and Detail Engineering Services for the EDC Sales Tank and related Tie-in Engineering involving Process, Piping, Mechanical, Civil, Structural, Electrical, Fire Fighting facilities, Instrumentation and Control.
6	Design and Detailed Engineering for Surge Tank, Terminal Loading Facility.	Qatar Petroleum	Qatar	2012	Design of Surge Tanks and Detailed Drawing generation and related structural, instrumentation works.



# Major Projects- Qatar



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SI. No.	Project Title	Client	Location	Year	Description
7	Engineering Services Support for EF5 Project	Qatar Steel Company	Qatar	2013	Generation of Piping Detailed drawings for all Piping network for the EF5 Project
8	Design and Engineering Services for Structures	Ras Gas	Qatar	2012	Structural and Civil Design
9	Preparation of Commissioning Documents	Ramboll O&G	Qatar	2012	Preparation of Commissioning documents for modification of Offshore platforms
10	Shifting & Upgrading Pumping Station, PWA, Qatar	Public Works Authority	Qatar	2011	Review of Process and Control System Documents
11	Wet Utilities Distribution Network for Support services, Ras Laffan Industrial City	Qatar Petroleum	Ras Laffan	2008	Front End Engineering and Design (FEED) & Detailed Engineering

# Major Projects- Oman



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SI. No.	Project Title	Client	Location	Year	Description
1	Tube Leak Pressure Protection on Chiller Exchanger DGP Train 1	** Confidential**	Oman	2018 - ongoing	Engineering evaluation of installing a tube leak pressure protection on the exchanger and connection to Flare, Flare study, sizing of PSV and to address tube rupture scenario during shutdown
2	Pre bid Engineering - H2S Removal	** Confidential**	Oman	2017	** Confidential**
3	Pre bid Engineering for new crude storage tank project	STS	Oman	2017	Pre bid engineering of 2 Crude storage tanks with capacity of 48 hrs, including FEED verification, MTO preparation, technical bid evaluation
4	Engineering support for Bulk Desander	** Confidential**	Oman	2017	Performing stress analysis, structural analysis, preparation of skid structural GA drawings, lifting study etc.
5	Detailed Design For Providing Booster Compressor And Integration To The Existing System Of Central Process Plant At PTTEP Shams.	** Confidential**	Oman	2016	Detail engineering for providing booster compressor and associated system into existing system including process, piping, instrumentation, civil and structural scope.
6	Engineering Documentation of Operating Management System (OMS) and Operation and Maintenance Manual (O&M) for Gas Treatment and Compression Facility at Oman	Enerflex/ Oxy Oman	Oman	2016	Preparation of Operating Management System (OMS) and Operation and Maintenance Manual (O&M)

# Major Projects- Oman



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SI. No.	Project Title	Client	Location	Year	Description
7	Gas Dispersion study for Daleel Gas Plant Facility	** Confidential**	Oman	2016	Flare dispersion study, Gas generators and Boilers exhaust flue gas study.
8	Engineering services for the Condensate Storage and Loading System	OXY & Enerflex	Oman	2015	Scope envisages the detailed engineering services and procurement support for the condensate storage and handling system for the 100 MMSCFD gas treatment and compression facility.
9	Design and Engineering services for Chemical Injection Skids	OXY & B-WI	Oman	2015	Design and engineering services for 3 chemical injection skids involving Process, Piping, Mechanical, Electrical, Instrumentation and Structural scope.
10	Corrosion Risk assessment & Overpressure protection	OXY OMAN (Enerflex)	Oman	2015	Conducting study for the corrosion risk assessment and over pressure protection for facilities in the gas expansion project.
11	Engineering Services for Decommissioning & Demolition of EFX BP Facility Oman	BP Oman & Enerflex	Oman	2013	Engineering Documentation and Deliverables such as procedures, plans, drawings, BOQs for Degassing and Demolition of the entire facility.
12	Engineering Services for EPF	OOCEP & Enerflex	Oman	2012	As-built Services for the Early Production facilities
13	Hazop Services for Early Production Facility	OOCEP & Enerflex	Oman	2012	Participation in HAZOP Sessions

# Major Projects- Iraq & Italy



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SI. No.	Project Title	Client	Location	Year	Description
1	Detailed Engineering & Assistance Condensate Splitter (F-100) Modifications	Erbil Refinery KAR	Erbil, Iraq	2018 - Ongoing	Detailed engineering to provide engineering, procurement assistance and construction management (EPCM) for condensate splitter unit modifications
2	Halfaya Project Surface Facility - Flowlines and Trunklines	MSK Group (Petrochina Halfaya)	Iraq	2018 - Ongoing	Detailed engineering for pipeline 422.250 km pipeline which includes Flowlines and trunklines, civil and structural works, cathodic protection and tie in with existing facilities
3	Third Party Engineering Services - Balance of Plant	**Confidential**	Ar Ratawi, Iraq	2018	3D Modelling, Isometrics, Civil foundation & structural drawings, Instrumentation Bulk MTO, Cable routing layouts, hook up drawings, Electrical cable routing layout, Interconnection diagram
4	Crude Column Overhead Condenser (610C) Rating Report	Erbil Refinery KAR	Erbil, Iraq	2018	The objective of this project was to report the performance of Crude Column Overhead Condenser 610C
5	Design review	Erbil Refinery KAR 3	Erbil ,Iraq	2017	Design Review for Condenser splitter Unit in KAR 3 refinery
6	Pipeline Design Calculation	**Confidential**	**Confidential **	2017	Pipeline design calculation for a pipeline to transmit the residue gas of about 20 KM from Kamel Production Unit (KPU) to Central Production Unit (CPU)

# Major Projects- Iraq & Italy



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SI. No.	Project Title	Client	Location	Year	Description
7	Up gradation of Feasibility Study Report - Marib Refinery	**Confidential* *	**Confidential **	2017	To upgrade the Cost Estimation as per feasibility study, the study shall develop a detailed Project cost estimate which shall estimate the capital investment, and operation cost associated with installation (Basic and Detailed Engineering, Construction up to handover to the Company) and operation of the new facilities
8	Engineering Services Support	Sini Siirtech Nigi	Italy	2016	Providing drafting service for various projects.
9	SIBA Field Development Project- Flow Assurance Study	Mott Macdonalds	India	2015	To perform flow assurance steady state and transient analysis for the production gathering system and steady state hydraulic analysis for methanol distribution system in SIBA Field development.
10	Design and Engineering Services for the Main Crude Oil Tanks and associated facilities at CPU sites.	**Confidential* *	**Confidential **	2014	Design and Engineering services for 2 nos of main crude oil storage tanks including foundations and dyke walls and associated facilities which include process, piping, civil, structural, instrumentation and electrical jobs.
11	Engineering Services Support	Sini Siirtech Nigi	Italy	2014	Providing drafting service for various projects.

# Major Projects- India /Malaysia /Indonesia



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SI. No.	Project Title	Client	Location	Year	Description
1	Pre- Bid Engineering Services for Integrated Development of Surface Facilities for Mangala Alkali Surfactant Polymer Flood Project	L&T	India	May 2018 - Ongoing	Pre- Bid Engineering support - FEED Verification, ITB documents review, review of process design, sizing and selection of equipment's, BOQ's and MTO's, Demolition BOQ, MR, Technical clarification and evaluation of bids from vendor and Construction BOMs / Work Volumes.
2	Pre- Bid Engineering Services for MedicoEnergi Arung & Nowera Facilities Project	**Confidential**	Indonesia	2018	Pre - Bid engineering support for preparation of Process BFD/PFD's, Process description and recommendation for Acid Gas removal unit and utility summary including plot plan and load list
3	Pre- Bid Engineering Support for Integrated Gas Surface Facilities of Cairn India Vedanta	AFCONS Infrastructure Ltd	India	2017	Pre - Bid Engineering support: - FEED Verification, BOQ's and MTO's, MR, Technical Clarifications and evaluation of Bids from Vendor
4	Surface Facilities & Pipeline Networks for CBM Bokaro Block - Bokaro Asset	ONGC India	India	2017	Pipeline scope of work for Patch - A (59.66 Km) and Patch - B (8.078 Km)
5	ONGC Gas Compressor Installations - Ahmedabad, Gujarat	ONGC (TATA Projects)	Wadu, Ahmedabad, Gujarat	2016	3D Modelling
6	H- Energy Jayagarh Dabhol Tie in Pipeline Project	H- Energy (EIL)	India	2016	Review of FEED Documents. Pipeline at Dabhol 60Kms
7	Engineering for skid mounted desalter packages (2 trains/ 2 stage)	SEPL	India	2014	Design and fabrication drawings for desalter, 3 D modeling and piping design/ drawings, skid structural design, lifting analysis, fabrication drawings for 2 stage desalter (2 trains)

# Major Projects- India /Malaysia /Indonesia



**PETROCIL**  
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SI. No.	Project Title	Client	Location	Year	Description
8	Ex Survey on ABAN VII Jack up Rig Vessel	ABAN Offshore	India	2013	Engineering Services for EX Surveys of the various items of equipments installed in Aban VII Jack up Rig Vessel
9	Binani Zinc Tamzinco Project	Binani Zinc	India	2012	Detailed Engineering for adopting TAMZINCO technology to improve the efficiency of leaching section by increasing the recovery of precious metals like lead, silver and zinc.
10	Detailed Engineering for Tail gas Treatment Plant	Binani Zinc	India	2012	Detail Engineering for the Installation and Commissioning of the Tail Gas Treating Plant
11	Industrial Pure water Project	Clarity Aqua Systems	India	2011	Front End Engineering and Design (FEED) & Detailed Engineering
12	Skid mounted 3-phase Separator.	ONGC	India	2010	Process and Mechanical Design
13	Architectural/Structural design for the Truck Loading /Lashing Area & Logistics /Excise Office	Hindalco	India	2016	Detailed Engineering for Architectural /Structural design for the Truck loading/ lashing area /Excise office
14	Detailed Engineering - Tail Gas Scrubber System	Hindalco	India	2016	Detailed Engineering for TGS Plant including Process, Mechanical, Piping , Electrical, Instrumentation Civil and HSE.

## Major Projects- India /Malaysia /Indonesia



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SI. No.	Project Title	Client	Location	Year	Description
15	Consultancy Services for Benzene Study for FSPO	MISC Berhand	Malaysia	2013	Review of existing facilities of FSPO and recommendation of the most suitable method for minimizing benzene emissions.



# Major Projects- Australia / Nigeria



**PETROCIL**  
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SI. No.	Project Title	Client	Location	Year	Description
1	Pre-FEED Study for Gas Processing Facility GPF	Enerflex, UAE	Australia	2018	Pre-FEED study for a new Gas Processing Facility along with gas export pipeline. The package items involved in the Pre-FEED study are Inlet Separators, Compressor Package, TEG Unit Package, Gas Metering with analyzers, Pig Launcher / Pig Receiver, Utility Packages- Fuel Gas, Instrument Air, Chemical Injection System, Power Generation, Potable Water, Other Systems- Control System, Open / Closed drain System, Overpressure protection system.
2	Preparation of Control Narratives for LPG Process Skid & Off Skid Unit	**Confidential**	Nigeria	2018	Preparation of Control Narratives for Amine Sweetening Unit, Dehydration unit, LPG Extraction unit (crayon, fractionation and product section), refrigeration unit and hot oil system (3 units).

# Major Projects- Saudi Arabia



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SI. No.	Project Title	Client	Location	Year	Description
1	Updating of Red Line marked up IFC Drawing in Micro-Station Native file	**Confidential**	Saudi Arabia	2018	Drafting of IFC redline mark-up drawings in Micro station native file



## INDIA

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Way Forward....



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**Looking forward to Long Term  
Business Relationship**

**Thank You**

