



PETROCIL
Engineers & Consultants

An ISO Certified International Engineering Consultancy

ENGINEERING EXCELLENCE

Oil & Gas | Refinery | Petro-chemicals | Water | Environment | Infrastructure



Oil & Gas Production Facilities

Middle East

Detailed Engineering
by Petrocil - Year 2018

PETROCIL

ENGINEERING EXCELLENCE, REDEFINED!

PETROCIL Engineers & Consultants is a renowned International Engineering Consultancy specialized in Oil & Gas, Refinery, Petro-Chemicals, Water, Mineral, Environment and Infrastructure sectors. Our multi-faceted consulting expertise combines domain-centric specialization, best design practices, innovative technologies and high-quality support resources focused on helping our clients increase production efficiency, lower operation costs and optimize productivity in a safe, environment-friendly way. We are passionately committed to delivering our projects on-time with quality and at estimated budgets. It is this quality that we have evolved over a decade that differentiates us from the rest. Our core philosophy hinges on ensuring customer satisfaction and protection of environment.



BUSINESS SECTORS

Oil & Gas • Refinery • Petro-chemicals
• Water • Environment • Infrastructure

SERVICES

• Feasibility Studies • Pre-FEED & FEED
• Detailed Engineering • Debottlenecking
• Plant Optimization • Pre-Bid Engineering
• Project Management • Commissioning Support

EXPERTISE

• Process • Instrumentation & Control
• Electrical • Mechanical • Piping
• Pipeline • Civil & Structural • HSE

FOOTPRINTS OF A PROGRESSIVE JOURNEY!

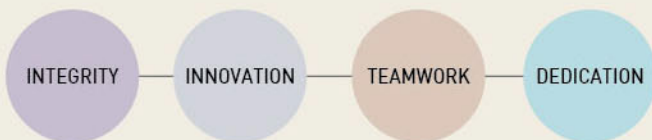
Established in 2008, Petrocil Engineers & Consultants has gained tremendous reputation for designing and delivering projects in India and Middle East. The company has its presence in UAE, with offices at Ras Al Khaima and Abu Dhabi, opened in 2010 and 2015 respectively. Today our operations have expanded to other key destinations like Kuwait, UAE, Oman, Qatar, Saudi Arabia, Iraq and India.

we have been associating with many highly reputed companies for more than a decade. We have performed Pre-FEED, FEED and Detailed Engineering for many of the Oil and Gas Companies in the Middle East. At present we have more than 200 technically qualified professionals covering all domains.

We have undertaken over 100 projects, addressing a wide range of challenges including complex integrated facilities design. We have also widened our range of services to meet our clients' needs and to provide a complete bouquet of engineering services for the life cycle of a project.



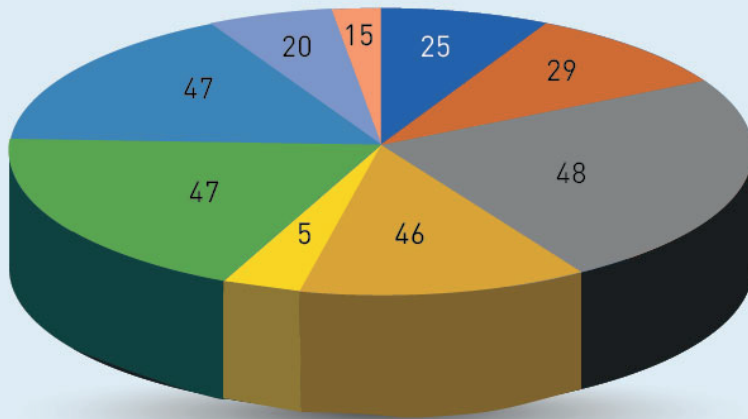
We work with a wide spectrum of clients, including many international and national oil companies, utilities and infrastructure owners and the key differentiator for us is always the quality of service which we deliver. We work in alignment with the clients' requirements right from feasibility studies, FEED, Detailed Engineering, Debottlenecking, Pre-bid Engineering Services, Project Management Services, Construction Management & Commissioning Support, helping our clients finish their projects on-time without escalation in cost.



OUR GEOGRAPHICAL LOCATIONS



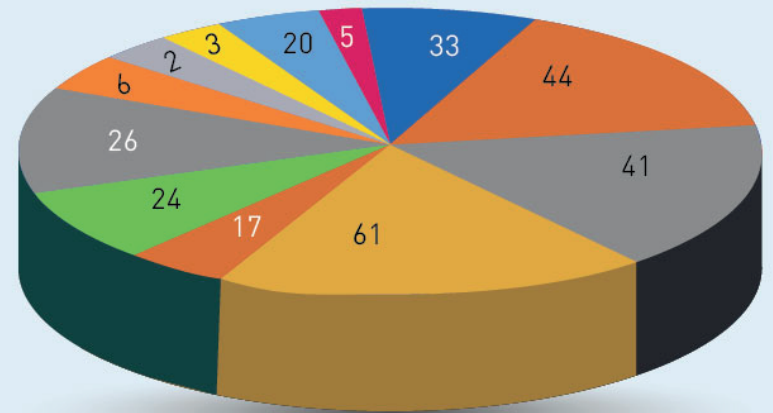
RESOURCE SUMMARY



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

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

DISCIPLINE RESOURCE





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TECHNICAL EXCELLENCE TO TACKLE CHALLENGES

Ensuring excellence in all our operations is the priority of our business. We leverage on our expertise to make projects viable even in most demanding situations. It's our highly specialized and experienced team's technical proficiency that makes this happen for our clients even in the most challenging market conditions. We deliver excellence through value-added technology and infuse optimization and standardization into all our designs.

VISION

To get into the league of the most prestigious multi-disciplinary engineering and consultancy organizations with excellent credibility and customer relationships.

MISSION

To continuously strive and improve the internal operational efficiency to ensure competitive edge, productivity and HSE standards.

CORE VALUES THAT WE ARE ROOTED IN

- Respect for Clients • Commitment to Quality
- Respect for Employees



DO IT RIGHT THE FIRST TIME !

GUIDED BY QUALITY MANAGEMENT SYSTEMS (QMS)

Petrocil is highly committed to quality assurance and has implemented quality systems for all activities. We achieve customer satisfaction through our commitment for excellence in all that we do. Quality for us is our everyday commitment and hence we strictly follow the principle of 'DO IT RIGHT THE FIRST TIME'.

ISO CERTIFICATES

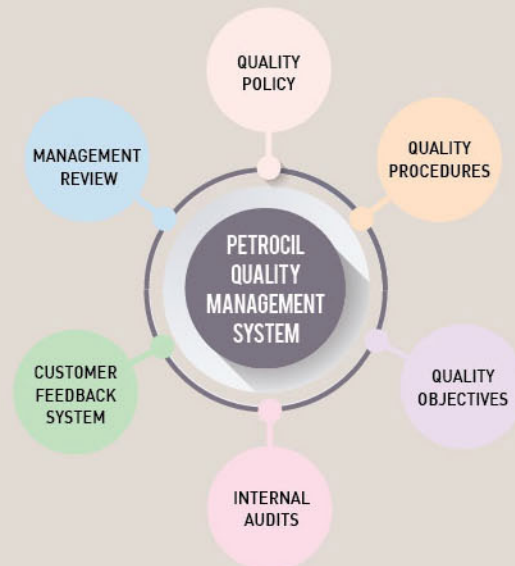
ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018



QMS SYSTEM IMPLEMENTATION

We are an ISO 9001: 2015 certified company. Our Project Specific Quality Plan prepared for projects details the Quality Control activities for the project.

- Department level quality plans ensure quality of each deliverable.
- Regular Internal Technical Audits to verify customer satisfaction survey process.
- Continuous process improvement through internal and customer feedback system.
- QMS training to all employees.
- Bi-monthly QMS meetings to review QMS functioning.
- All procedures and standards are compulsorily reviewed regularly to be in line with industry norms and best practices.
- Department interface plan ensures seamless interaction and exchange of information between departments, ensuring delivery of quality product.
- Lessons learnt system in place to incorporate learnings into new projects.
- Electronic Document Management System in place facilitating retrieval and archiving of information.





OUR MULTI-DOMAIN EXPERTISE DIFFERENTIATES US

Petrocil has multi-dimensional engineering capacity with a pool of experienced engineers from several streams. Our Discipline includes Process, Instrumentation & Control, Electrical, Mechanical, Piping, Pipeline, Civil & Structural, HSE, Project Management, Project Planning, Costing, QA & QC, & Drafting.

OUR BUSINESS SECTORS

Oil & Gas, Refineries, Infrastructure, Petrochemicals, Tank Farms, Pipeline Systems, Minerals and Water.

Petrocil has successfully extended consultancy and design services to Oil & Gas Companies, Refineries and other sectors.

These include various stages of Pre-FEED, FEED, detailed engineering, procurement support, pre-commissioning, commissioning support and project management services.

The company bases its services on the foundational values of integrity, specialist insight and independence of third-party interventions which promise a safe, responsible and sustainable development in the sector of Oil & Gas.

The company also provides consultancy and design services to tank farms and terminals for different products like jet fuel, refined products, chemicals, etc. and loading and unloading terminals.

We take up the unique challenges offered by different industries but ensure the shared goals of reduced maintenance, improved safety, energy savings and lower cost ownership. It is this rare multi-dimensional engineering capability along with more than a decade of experience working with industries that helps us achieve the goals and objectives set by our clients.

ENGINEERING SERVICES

FEASIBILITY STUDIES

Technical feasibility studies are undertaken by Petrocil to evaluate the economic viability and operability of various options. The process involves clear definition of areas to be studied, establishing goals, determining data required, performing screening study to determine initial economics, determining potential profitability, estimating cost of project and operating cost, quantifying economics of schemes identified in the screening study and preparing overall project schedule.

FRONT-END ENGINEERING & DESIGN

We offer Integrated Solutions to clients so that they can manage their internal business drivers using multi-disciplinary proficiency gained from providing Front-End Engineering & Design (FEED) Services to clients in the Oil & Gas Industry.

Through FEED we promise a broader support:

1. Evaluation of the various options which will result in the improvement of the Return on Assets (ROA)
2. Documenting the required engineering in order to highlight/define the specific project requirements for the ease of detailed engineering, procurement and construction.

3. Supporting the client by providing the Project Cost Estimate.
4. Evaluation of various design options for project cost optimization keeping in mind the clients' budgetary requirements.

DETAILED ENGINEERING

Detailed Engineering includes extractions of all essential information from the basic engineering documents to provide the exact drawings in detail for production, fabrication and erection items and in turn the details of the entire project along with the precise MTO and specifications for each of the equipment.

DEBOTTLENECKING

Obtaining maximum production levels by performing minimum changes in equipment modification, piping modification, equipment replacement, and by optimizing operating conditions, controls, etc.

PLANT OPTIMIZATION

Undertaking plant optimization studies for capacity utilization and energy conservation based on feedstock composition, product states/quality, production levels, utility requirement.

PRE-BID ENGINEERING SERVICES

Evaluating the design requirements – formulate/review basis of design, define project specifications, identify process units and utility requirements, project/process description, BFD, PFD, P&ID, layouts, utility summary, data sheets for equipment, instrument list, control system requirements, etc. to enable proper costing of the project.

PROJECT MANAGEMENT SERVICES

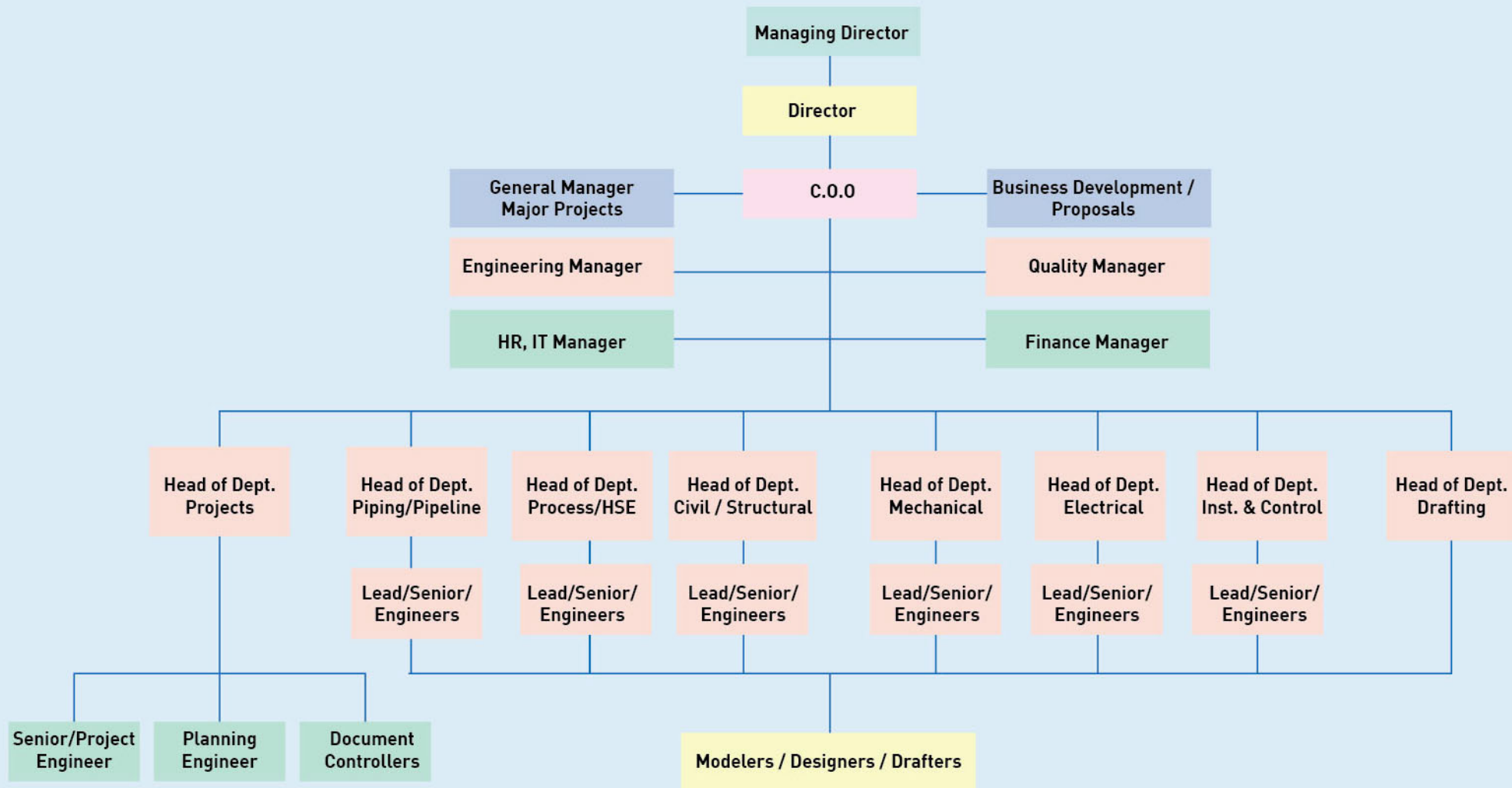
We undertake project management services by assigning top quality professionals – a dedicated management team - as per the requirements of the project. The primary objective is to use their technical excellence and professional expertise to reduce overall cost and time to execute the project with no sacrifice in quality and procurement support.

CONSTRUCTION AND COMMISSIONING SUPPORT

We provide Construction and Commissioning Support, our aim is to ensure that the equipment's are constructed and commissioned in a safe and controlled manner while conforming to compliances with the design intent. We also make sure that all systems and components of plants are designed, constructed and tested and are functional at optimum level once the operation commences.



ORGANIZATIONAL CHART



SPECIALITIES

EARLY PRODUCTION FACILITIES

- Heavy Oil Treatment • Desalter
 - **De-sanding Facilities**
-

SKID MOUNTED DESIGN

- Oil & Gas Production Manifold
 - Production & Test Separator
 - Degassers & Scrubbers
 - Desalters • Heat Exchangers
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SAFETY STUDIES

- Firefighting System Designs • Flare Design
 - Gas Dispersion and Explosion Analysis
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STUDY FACILITATION

HAZOP, HAZID, SIL, EIA, ORA, PHSER

OTHERS

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

PROCESS UNITS

- Chemicals, Petrochemicals and Refineries
 - Oil & Gas Separation • Gas Sweetening
 - Gas Dehydration • Gas Compression
 - Oil Stabilization • Sulphur Recovery • Acid Gas Recovery
 - Utilities • Flare System • Firewater System
 - Pipeline System • Storage & Tank Farm
-

KEY STRENGTHS

CONCEPT TO COMMISSIONING

Feasibility Studies, FEED, EPC Services

Pre-Commissioning & Commissioning Assistance

ACQUAINTANCE WITH LICENSED TECHNOLOGIES

Worked with World Wide Licensors in the O & G

IN-HOUSE DATA BANK

Knowledge of Past Projects. Vendor List
and Cost Information

VALUE ENGINEERING

Strong Design Capabilities, Familiar with design
alternatives.

SOFTWARE

MECHANICAL PV ELITE PIPING Pressure Vessel Design CAESAR II	PROCESS Corrosion Study UNISIM Design Suite Simulation AFT impulse Fluid Flow Analysis Aspen One Desktop HYSYS (Steady State & Dynamic) Process Simulation, Sizing of PSV's, Orifice, etc. Aspen EDR Aspen Flarenet Pipenet Transient Module Heat Exchanger Design & Rating Flare Network Study Transient Hydraulics	PROJECT MANAGEMENT Primavera, Project Planning &Control MS Projects WRENCH Project Control & EDMS Accounting Tally
ELECTRICAL E-TAP Electrical System Design	CIVIL & STRUCTURAL STAAD Pro/STAAD GT STRUDL Foundation 3D TEKLA Structure Structural Analysis Foundation Structural Analysis and Design Foundation design Steel Detailing	MATERIAL SELECTION Honeywell Corrosion Prediction for CS Predict Socrates Selection of CRA
INSTRUMENTATION Instru Calc. CONVAL 11 Instrument Sizing sizing calculation	SAFETY PHAST Modeling Dispersion StudyAD CADWORK, PDMS(E3D), Smart instrumentation, smart P&D, Smart 3D, CIVIL 3D, NAVISWORKS MANAGE	DRAFTING Autocad, Bentley Microstation, Cadmate, Zwcad

BUSINESS ASSOCIATES





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