



**KSR**



# **KSR INTERNATIONAL**

## CONSULTANTS & ENGINEERS



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# 1 INTRODUCTION

We at KSR International Consultants & Engineers render Consultancy and Design Engineering Services with optimized solutions to enhance plant performance, safety and reliabilities to the Plant Operators, Planners, Engineering Consultants and Project Executing agencies. As specialist company in engineering services we are providing our expertise in design, development, and implementation of technical solutions across various disciplines like Process, Civil, Mechanical, Electrical and Instrumentation Engineering.

We are a Vadodara, Gujarat, India based company and provide comprehensive consultancy services in the Design and Engineering for various Projects in Oil & Gas – Offshore & Onshore, Power Plant, Fertilizer, Chemical Plants, Solar, Waste Water and Tank Farms.

Since its inception the company enjoys patronage from number of clients in India, Middle East Countries, Europe, SAARC Countries and South – East Asean Countries.

Timely completion of work is the our main objective. To summarize, it can be stated that KSR International Consultants & Engineers is a growth-oriented engineering consultancy organisation,

We have highly motivated and qualified senior engineers and consultants across all disciplines to provide Consultancy Services.



## 2 STRATEGY

### 2.1 VISION STATEMENT

We are committed to delivering excellence in executing the projects across the full project lifecycle in line with the agreed capital and operating targets including but not limited to HSE, Quality, Cost and Schedule. Carrying out our business activities in an ethical manner and in strict compliance with the local and international law, wherever we operate.

### 2.2 MISSION STATEMENT

Our aim is to deliver exceptional project management and engineering services ensuring high value for our clients by implementing global best-in-class customized project and engineering management services and tools by a team of highly skilled professionals. We are committed to our employees, stakeholders and our clients with prime focus in their growth and in providing them safe and healthy environment.

### 2.3 BUSINESS STRATEGY

We act in accordance with our core values and our foundational beliefs in all that we do. We aspire to develop business relationships with like-minded partners who are guided by a similar set of principles of business conduct.

Our company specializing in engineering services, highlighting its expertise in design, development, and implementation of technical solutions across various disciplines like Process, Civil, Mechanical, Electrical and Instrumentation Engineering, often showcasing their industry focus, project experience, key capabilities, and commitment to quality and client satisfaction  
Diverse array of services includes Engineering and Consultancy to Project Management and other Engineering Specialized Services

# **3 CONSULTANCY & ENGINEERING SERVICES**

To enhance your plant performance, safety and reliabilities you need services of highly experienced and seasoned consultants to provide practical and cost effective solutions to your plant problems. Outsourcing these support services can enable you to focus on your core plant operation business.

## **3.1 OUR RANGE OF SERVICES**

- Concept & Feasibility Studies, FEED, Detail Engineering - Process, Mechanical & Piping, Civil & Structural, Electrical & Instrumentation
- Specialist Technical Services like Study related to Electrical, Instrumentation HSE & Process Safety like Hazop, E-Hazop (SAFOP), Energy Optimisation Study and Sil Study.
- Project Management Services like Project Control & Monitoring
- Technical audit of a plant to improve performance which include Energy Audit and Lighting System Study of Hazardous nature
- Modernizing / redesigning of any equipment /system
- Gas Detection & Monitoring System
- Automation & Instrumentation System
- Emergency Shutdown System
- Electrical Safety audit to enhance safety of the plant
- Provide Training to Project, Operation & Maintenance personal to operating companies in Oil & Gas Sector.
- As-built Drawing services (P&IDs, SLD, Layout etc)

## **3.2 OUR AREA OF SERVICES**

- Oil & Gas Offshore & Onshore Project
- Refinery
- Petrochemical
- Fertilizer
- Chemical Plant
- Plant Building
- Power Sector

# 4 MULTIDISCIPLINARY ENGINEERING SERVICES

We have highly motivated and qualified senior engineers and consultants across all disciplines to provide optimized solutions to enhance your plant performance and reliabilities. Key highlight of services per discipline are:

## 4.1 PROCESS

- Process Simulation & Concept
- Scheme study using HYSYS
- Selection and design of utilities
- Selection of Power generation and Compressor driver type.
- HMBT
- Selection of MOC
- Philosophies
- Design Basis
- Line and Equipment sizing
- Pump Hydraulics
- PSV and BDV Sizing
- Flare network analysis study using ASPEN FLARENET
- PFDs and P&IDs
- Vendor Document Review and Purchase Assistance
- Support To other disciplines
- Calculations and Reports
- Lists and Datasheets
- Vendor Document Review
- Process ESDs and Controls
- Process Simulation
- Thermal Design of Heat Exchanger, Air Fin Coolers, Economizer.
- Distillation Column Sizing
- Vessel Sizing (Two Phase, Three Phase Separator)
- Scrubber Sizing
- Hydraulic Calculations and Line Sizing
- Safety Valve Sizing
- Flare System Analysis



## 4.2 MECHANICAL



### 4.2.1 STATIC EQUIPMENT

- Conceptual Engineering-Equipment sizing, cost estimation for project initiation
- Fabrication of Equipment
- FEED Deliverables-Data sheets, weight and cost estimate, civil load data, appurtenances
- Detail design with calculations, GA drawings, internal details and manufacturing detail drawings (PV ELITE, ACAD)
- Technical and commercial bid evaluation with unbiased review results
- Vendor document management
- Expediting service for Fabrication Equipment
- Operating, Installation and instruction manual, "As built" drawing
- MDR compilation
- Documents for statutory approvals like CCOE, IBR, agency
- Vessels, Reactors ,Tanks, Columns, Silos, Heat exchangers, Air cooled exchangers, Mechanical Design and specifications
- Cost estimation
- Equipment Fabrication and it's Detail drawings (ACAD)
- Pump, Compressor, Blower Design & Specification
- Package Unit Specification
- Skid layout, 3D model, pipe spool detail drawings, bill of material
- Finite Element Analysis
- CFD AnalysisPainting and insulation schedule
- Man power services for installation and supervision, pre-commissioning, trouble shooting
- Spares list



## **4.2.2 PIPING**

### **LAYOUT**

- A. Conceptualizing and development of Plot plan.
- B. Development of Equipment layout.
- C. Vendor Document review for 3d Modelling.
- D. Preparation of Piping Material Specification
- E. Pipe wall thickness Calculation as per ASME B31.3

### **3D MODEL DEVELOPMENT**

Inputs like Equipment GA, floor elevation, P&ID Instrument Hook-up used.

### **DELIVERABLE**

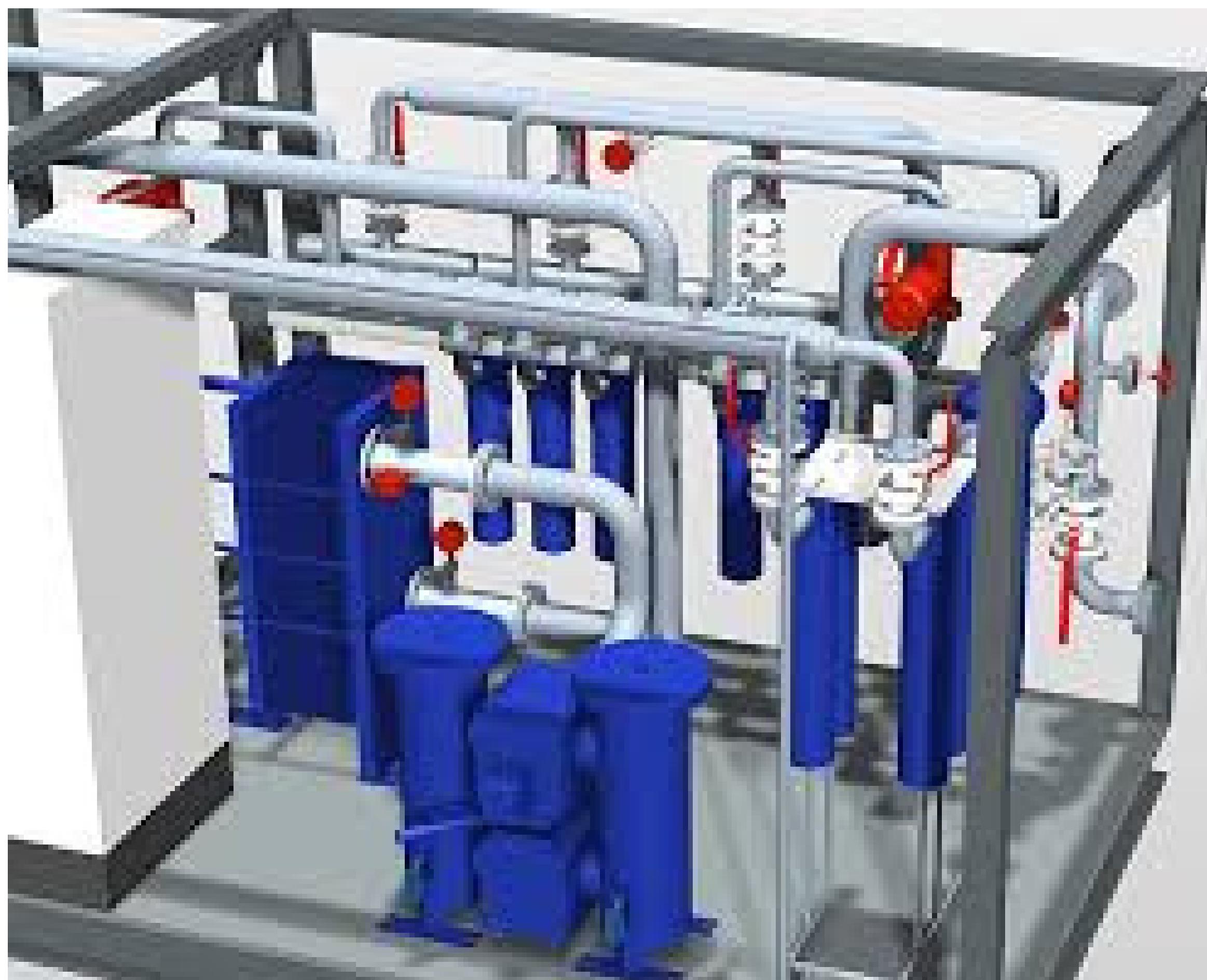
- A. 1st cut BOM from P&ID for Cost Estimation
- B. 3D model review at different stages of project completion. Preparation of Isometric Drawing and Piping GAD.
- C. Final Piping BOQ preparation as per P&ID line list.

### **STRESS ANALYSIS**

- A. Piping having High temperature and Pressure are taken under as critical line.
- B. Analysis on Critical line are done on CEASAR II software.
- C. Support design.

### **AS BUILTS**

- A. As-Built preparation at site for Existing or new pipeline arrangements.
- B. Isometric with BOQ .
- C. GAD of Piping.



## 4.3 CIVIL & STRUCTURAL



### 4.3.1 OFFSHORE STRUCTURAL ENGINEERING

- Structural Design Basis
- Analysis and Design
- In Service Analysis – In place, Fatigue
- Pre Service Analysis – Lift, Load out, transportation
- Brown Field modification – Deck extension, Helideck Upgrade etc.
- Studies for short term loading - like wireline operation, mooring/tying of construction barge to jacket during offshore construction etc
- Bridges - Analysis and Design
- Appurtenances design - Flare Boom Analysis & Design, Boat landing etc.
- Miscellaneous Design – Riser and caisson clamps, pad eyes, Equipment Support Design, Special Pipe Supports Design.
- Preparation of Design Drawings ,Design Reports, Calculation Notes
- Installation Engineering Support
- Pre Engineering, post engineering and Pre installation site surveys
- Weight Control Reports
- MTO Reports
- Offshore Asset Integrity –Implementation of SIMS (Structural Integrity Management System) and development of Risk Based Inspection program.



## **4.3.2 ONSHORE STRUCTURAL ENGINEERING**

- Civil & Structural Design (FEED and Detail Engineering)
- Steel Structure – Pipe rack, shelters, Technological Structure, Equipment Structure.
- Building Engineering and Design.
- Vessel and Equipment foundation Design.
- Third party review and Engineering support.
- Third party review and Engineering support.
- Facility Assessment, Rehabilitation and Life Extension.
- Health Assessment and condition survey of RCC and Steel structure
- Non Destructive and Partial destructive test
- Technical solution for repair, rehabilitation and strengthening.
- Cathodic Protection of Structure
- Site and Construction Support.
- As built Engineering
- Field Engineering Support.
- Procurement Support.



## **4.3.3 ARCHITECTURAL AND CIVIL STRUCTURAL - BUILDINGS**

- Overall layouts plans
- Architectural Plans,Elevations, Section
- Civil/Structural Design Basis
- Preparation of Tender & Evaluation
- Analyses/Design Calculation
- Detailed Drawings For RCC & Steel Structures



## **4.4 INSTRUMENTATION & CONTROL**

### **4.4.1 INSTRUMENTATION**

- Control Logic Philosophy
- Instrument Index
- Instrument Sizing, Specification & Data Sheets
- Control System Specifications & Technical Bid Analysis
- Cable Layouts & BOQ
- Hook-up & Loop Diagrams
- Obsolescence, Conceptual Studies of Field Instrumentation & Control System
- SIL Studies including assessment, verification and validation
- Instruments and Cables Calculations/Sizing
- Detail Design of: All types of field instruments, Analyzers, Fire and Gas Detection System, Flow Metering/Custody Metering, Leak detection, Tank Gauging, Terminal Automation, Control Systems (DCS, ESD, SCADA, RTU, etc.)
- Procurement Assistance through Material Requisitions, Vendor Evaluation, Technical Bid Analysis, etc.
- Inspection and Testing Assistance (FAT, IFAT, SAT)
- Site Assistance (Construction and commissioning support)
- Control System Design:
- Development of Point Data Base, Functional Schemes, Marshalling and System Panel GAS, Hard-wired console, Wiring/Termination details, Loop Schematics, etc.



## **4.4.2 BUILDING AUTOMATION/ TELECOMMUNICATION**

- Obsolescence Study, Conceptual Study and Detailed design of:
- CCTV, Access Control System (ACS), Public Addressing (PAGA), Intrusion Detection, Networking, Audio Video System (AV), Fiber Optic, Solar Power, etc.
- Procurement Assistance through Material Requisitions, Vendor Evaluation, Technical Bid Analysis, etc. Inspection and Testing Assistance (FAT, SAT)



## 4.5 ELECTRICAL



### 4.5.1 SYNOPSIS OF ELECTRICAL SERVICES

- Management of engineering activity for EPC & FEED Projects.
- Project Co-ordination & Interdisciplinary Engineering Co-ordination
- Procurement Assistance
- Design Engineering of Electrical for Hazardous Plant in Oil & Gas Sector
- Development of technically skilled manpower with multinational and multi linguistic recruitment
- Develop staff performance & skill set through training and mentoring subordinates.
- Direct the execution of projects including overall execution strategy & planning.
- Coordination of engineering, procurement and construction activities, including interface management
- Energy Optimization Study
- Energy Audit
- E Hazop – ELSOR – SAFOP
- Material Handling Safety

### 4.5.2 EHV - SUBSTATION & TRANSMISSION LINE

- Civil, Electrical & Structural Design of L.V, H.V & EHV Switch yards/ Transmission Lines/ Distribution Lines.
- Equipment Specifications for Switchyard & Transmission/Distribution Lines. Training in EHV Lines & Sub-stations.
- Preparation of Project Report for Electrical installation, Switchyard Transmission/Distribution lines. Power evacuation schemes etc.
- High/ Extra-high Voltage Transmission line Survey & Estimation Work, including pre-bid support.
- Design of Electrical Installation for various Hydro Electric Projects. Industrial installations including Bio-Gas Projects.
- Design and Engineering for power evacuation lines and substations for Hydro, Thermal, Wind, Solar & Bio-gas Power Plants.
- System Study for expansion of network, power injection in Grid and for industrial installation.



## 4.5.3 ELECTRICAL DESIGN

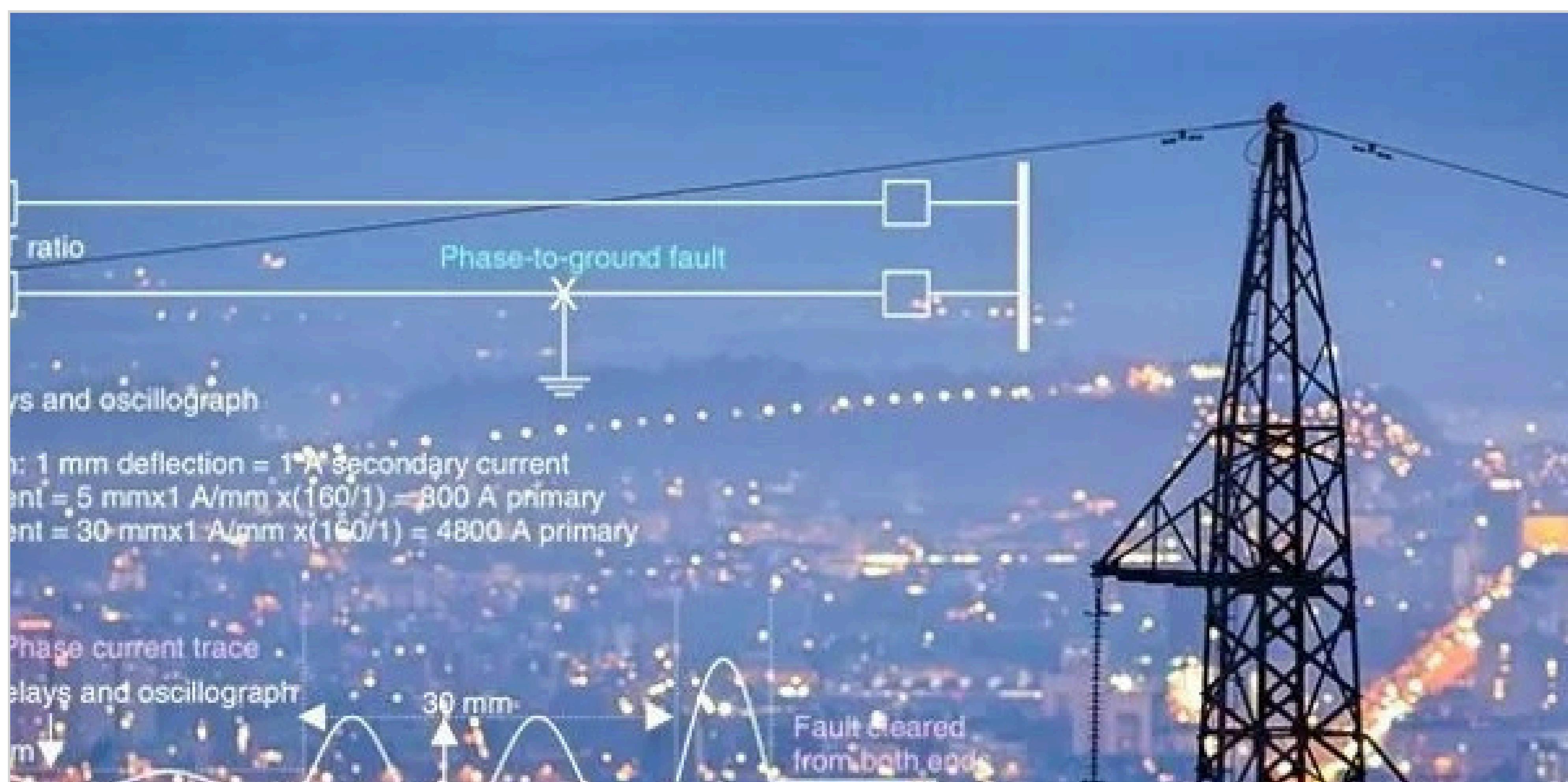
- Single Line Diagram
- Control Schematic
- Cable Routing Layout (Trench, Tray Etc.)
- Lighting Layout
- Earthing & Lightning Protection Layout
- Hazardous Area Classification
- Substation Layout
- Switchyard
- Solar Plant Design
- Electrical Design Basis
- Technical Specifications
- Electrical Load List
- Equipment Datasheet
- Material Take-off
- Material Requisition
- Technical Bid Evaluation
- Schedule of Rates
- Vendor Drawing Review

## 4.5.4 ELECTRICAL CALCULATION

- Generator Sizing
- Bus-bar Sizing
- Transformer Sizing
- Neutral Grounding Resistor Sizing
- CT & PT Sizing
- Cable Sizing & Voltage Drop
- Switchgear Sizing
- Lighting Calculation
- Earthing Calculation
- Lightning Protection Calculation
- Capacitor bank Sizing
- AC & DC UPS Sizing

## 4.5.5 POWER SYSTEM STUDIES

- Load Flow
- Short Circuit
- Motor Startup
- Relay Coordination
- Arc Flash
- Harmonics
- Transient Stability



# 5 TRAINING

We have specialist with core competence in providing Training on following subject:

- Failure Analysis for safety and reliability
- Pressure Vessel Technology: Design, Fabrication & Inspection Guidelines
- Inspection and Quality Control in Fabrication of Process Equipment
- Piping Technology: Design, Stress Analysis, Erection and Inspections
- Pumps, Compressors, Turbines and Agitators Selection, maintenance and troubleshooting
- Instrumentation and Control Technology
- Non-destructive Testing for Reliability
- Material Handling Systems for Bulk Solids: Selection, Design and Operations
- Project Management
- Feasibility, Process Selection, Project Implementation
- Plant Engineering & Audits: De-bottle-necking, Production Improvements
- Hazards and Safety Management, Audits
- Energy Conservation & Audits
- Hazardous Area Classification and Selection of Electrical Equipment in Hazardous Area
- Electrical Maintenance Practices in Hazardous Plant
- Excavation , Trenching & Soil Mechanics
- Fall Prevention & Protection Training
- Scaffolding Safety Training
- Basic Rigging Training
- Welding Safety Training
- Hand & Power Tool Safety Training
- Hazardad Communication
- PPE Training
- Powered Industrial Truck Operation Training
- Steel Erection Training
- Stairways & Ladder Safety Training
- Building Information Management
- Structural Engineering
- Revit Introduction
- Staad Pro Introduction Application
- Structural Design & Construction Management

# 6 CORE TEAM

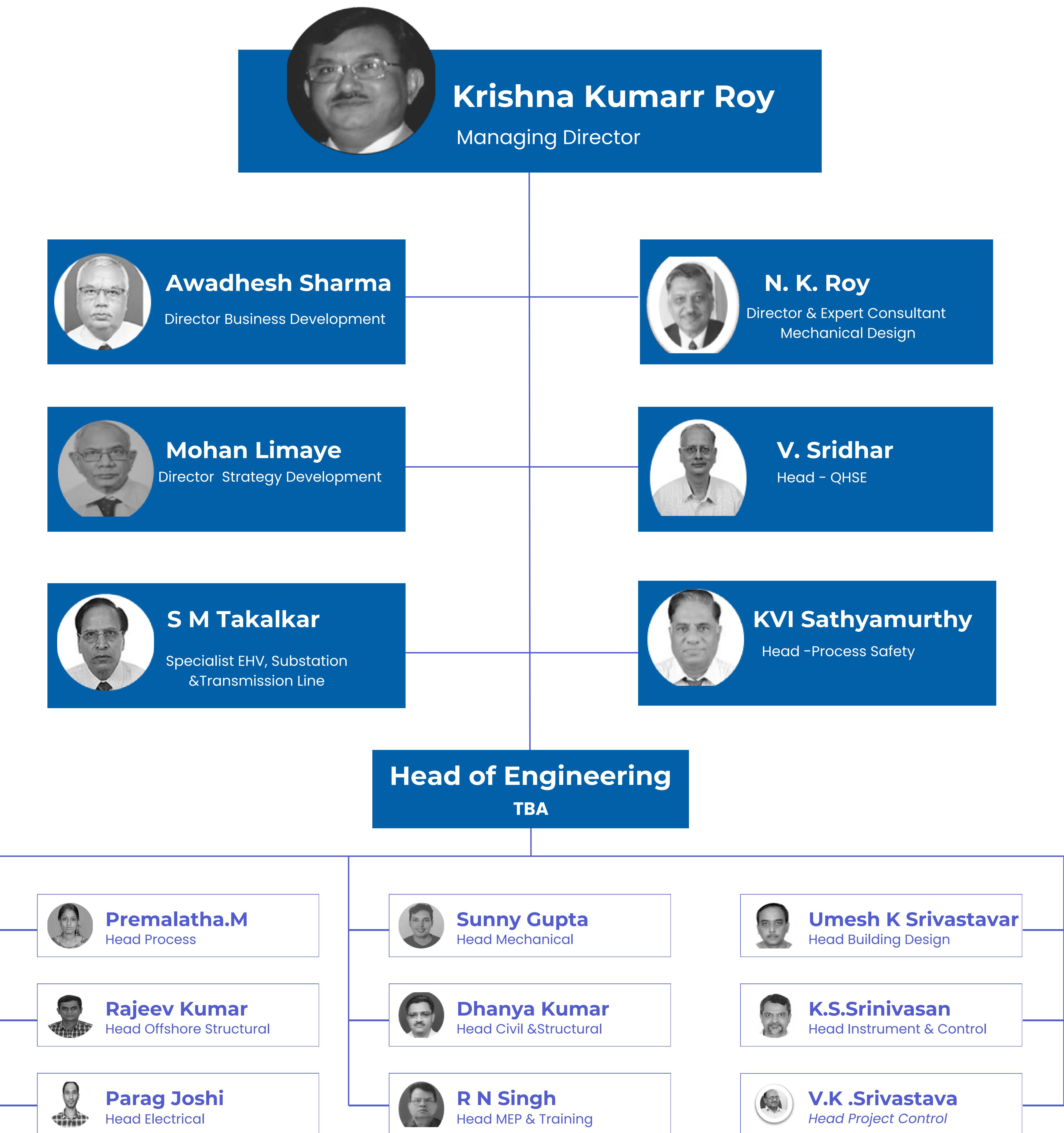


We have highly motivated and qualified senior engineers and consultants across all disciplines to provide optimized solutions to enhance your plant performance and reliabilities.

Our team consist of specialist with more than 25 years of experience in the field of Engineering for providing Engineering solution for Oil & Gas – Offshore & Onshore, Power Plant, Fertilizer, Chemical Plants, Solar, Waste Water and Tank Farms.



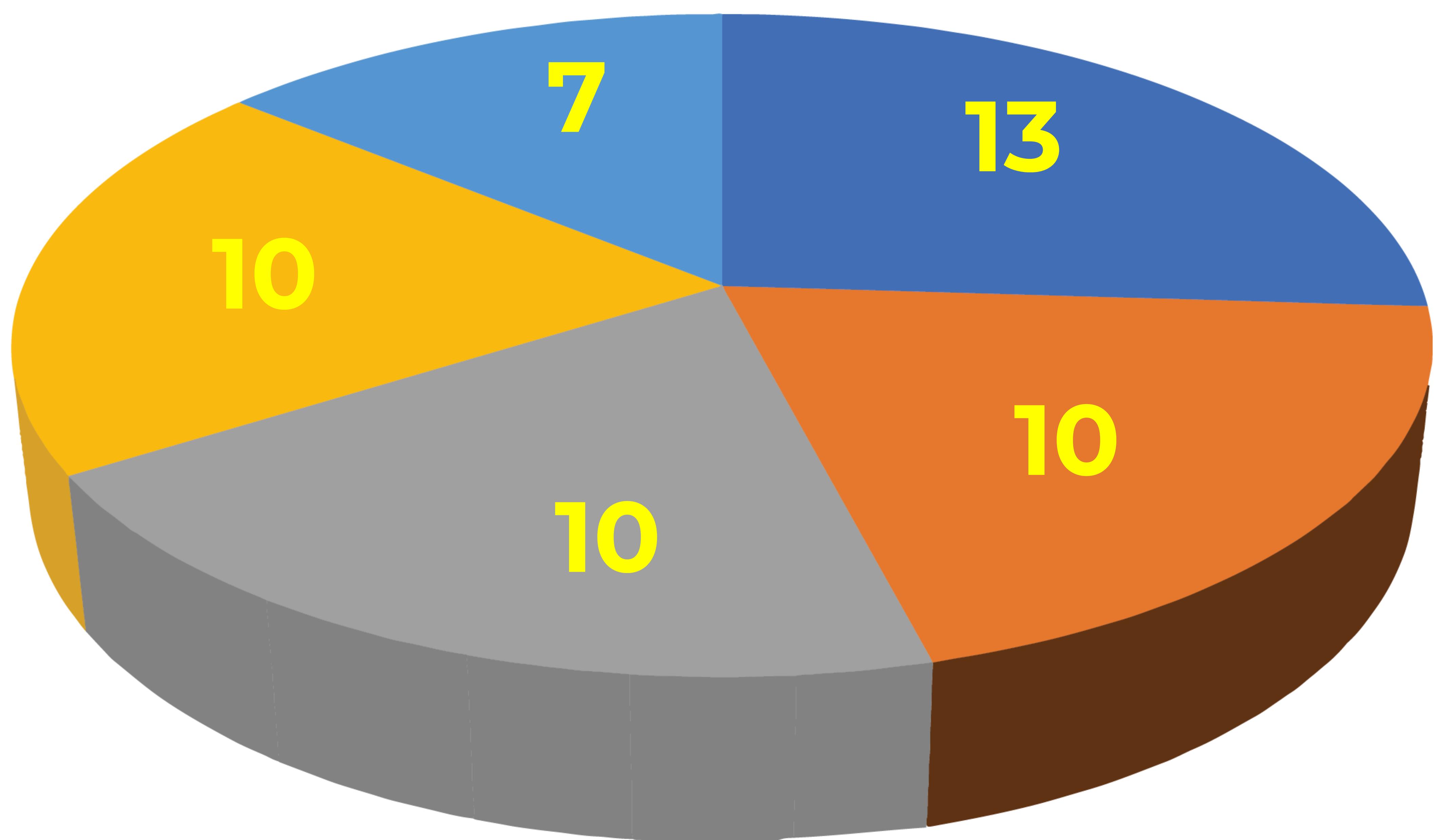
# 6.1 Organization



## 6.2 MANPOWER

### DISCIPLINE GROUP

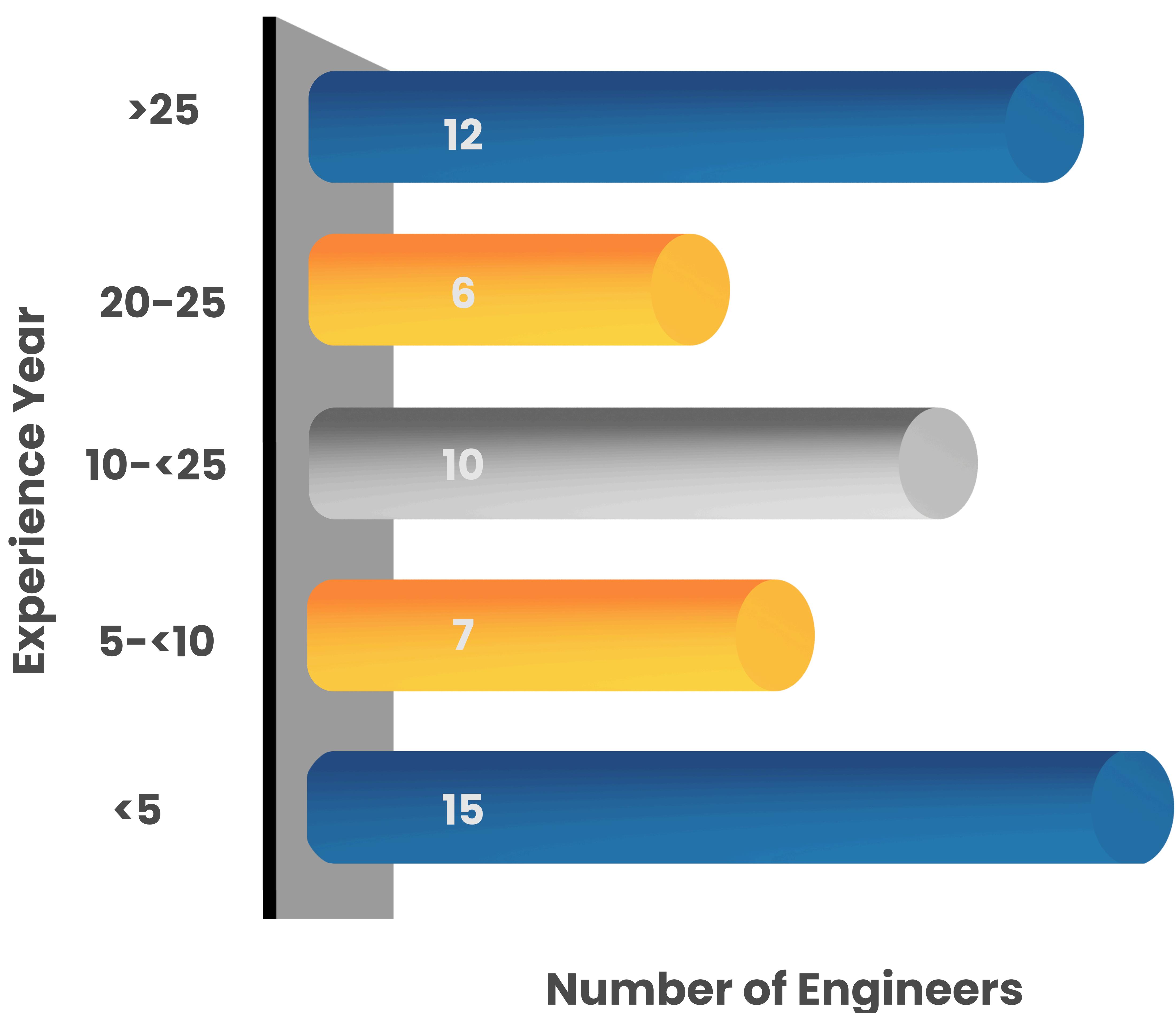
Discipline	Total Strength
Process	13
Mechanical	10
Civil & Structure	10
Electrical	10
Instrument & Control	7



● Process ● Mechanical ● Civil & Structure ● Electrical ● Instrument & Control

## EXPERIENCE GROUP

Experience Year	Number of Engineers
<5	15
5 - < 10	7
10 - <20	10
20 - 25	6
>25	12



# **7 PROJECT EXECUTED**

Brief description of few Projects executed by us are given below, however more detailed project list will be furnished on request:

## **7.1 OIL & GAS PROJECT**

- P&ID , PFD & Plot plan Development of GAIL INDIA, Jhabua (MP)
- ADNOC - HVAC upgrade for Process Buildings in BAB & HABSHAN of ADNOC, Abudhabi
- Tanggu UCC project, Worley
- 132 KV Bombore Main Substation, Sonabel , Burkina Faso, Africa
- HABSHAN-3 Upgradation Project, ADNOC GAS, Abudhabi
- Habshan-Maqta-Taweeleh Sales Gas Pipeline Project for GASCO, Abu Dhabi, UAE
- Asab Lean Gas Pipeline Project for GASCO, Abu Dhabi, UAE
- GSPC LNG LTD, Gujarat, India
- GR 5 Gas Compression Project at Hassi R'Mel for Sonatrach Algeria:
- New Gathering Centre in North Kuwait (GC 31) Project for Kuwait Oil Company
- MGS 56" EWG-2 and EWG-1 Loop -2 Pipeline Project for Saudi Aramco
- FGS & 1 no. CGGS for Oil India Limited
- High Pressure Gas Lift Project (FEED) at Rudrasagar & Lakwa for Oil & Natural Gas Corporation Ltd, Nazira
- Process Adequacy check of reusing an existing FPSO for PY-3 Field
- WJO GAS MITIGATION PROJECT Gas Compressor CLIENT : WJO KGOC, OILTECH and ALKHORORYEF
- Fitness for Service Evaluation as per API 579 for many refinery, fertilizer, and petrochemical operating plants (IOCL, BPCL, HPCL, GSFC)
- Technical Consultancy services, Tentative Lay Out, Project Cost estimates, KRIBHCO Hazira, Surat; Hazira Plant Expansion
- Technical Consultancy services, Soda Ash Plant Scheme developments, Cost estimates, Site Selection for Baroda Management & engineering services, Vadodara.



## **7.2 BUILDING PROJECT**

- Main Admininistritive Building, KNPC, Kuwait
- Warehouse, KNPC, Kuwait
- Generator Building, Saudi Electricity Company, Saudi Arabia
- Substation / Control Room, Calibre Chemicals, India
- Substation / Control Room, IOCL, India
- Plant Building, Calibre Chemicals, India
- Compressor House, GSPC, India
- Compressor House, IOCL, India
- Compressor House, Cairn Energy, India
- Fire Water Pump House,Calibre Chemicals, India
- Fire Water Pump House, Flint Group, India
- Central Control Building, Saudi Aramco
- Process interface building (PIB) , Saudi Aramco
- Maintenance Building, Saudi Aramco
- Gate house, Saudi Aramco
- X-Ray Building, Saudi Aramco

## **7.3 LANDMARK PROJECT**

- Fitness for Service of Equipment and Piping, Remaining Life Assessment Study reports for Indian Refineries
- FFS and RLA of Nitrogenous Fertilizer Plants
- Piping and equipment system improvements and alterations
- Steam and gas Vent Noise reduction implementation, development of Vent Silencers
- Design of temporary supports for an existing 48inch main feeder line for an ADNOC project to support repair and revamp of existing permanent support under live conditions.
- Scheme finalization and Optimization , HYSYS Simulation, HMBT Generation, Utility Calculation, Power optimization, Vapour Recovery Unit concept, H2S detailed study and Cause and Effect Diagram for FSO(P-Process) and FSO(s-Storage) NOC, Qatar and TUOFF
- Mechanical Design and Drafting of Column up to 45 Meters for Grasim Industries Engineers executed the mechanical design and drafting of a 45-meter-long column for Grasim Industries, ensuring structural integrity, safety, and compliance with industry standards.
- Mechanical Design and Drafting of 112.5-Meter Diameter, 16-Meter Height Atmospheric Tank for Gulf Client Our team successfully designed and drafted an atmospheric tank of 112.5-meter diameter and 16-meter height for a Gulf client.
- Maximum Up to 10,000 Tubes Heat Exchanger Design and Fabrication Drawing Our team has successfully designed and prepared fabrication drawings for heat exchangers with up to 10,000 tubes, meeting complex thermal and mechanical requirements.

# **8 SPECIALIZED ENGINEERING SERVICES**

## **8.1 HAZID/ ENVID STUDIES**

- Client : McDermott, UAE  
Project : WHP at McDermott, Dubai.
- Client : ONGC offshore  
Project : Offshore platforms (Pipeline Replacement project roughly around 50 platforms) along with pipe laying project at Barge LTP 300.
- Client : Kuwait Oil Company, Kuwait  
Project : KGOC/KJO and KOC for new slug Catcher facility and condensate export system, Pig launcher/receiver, Tie in points and utility systems.
- Client : Kuwait Oil Company, Kuwait  
Project : installation of New Wet crude and Effluent water tanks and APS pump station facility
- Client : Salamander Energy, Thailand  
Project : Representing Salamander Energy for their principal TNS Company at Thailand for their Oil & Gas well Head platforms (offshore).
- Client : IOCL, India  
Project : Barauni BR 9 Revamp project of RR and VRU sections.
- Client : ONGC, India  
Project : Cluster 8 field B192-5/5A offshore process platforms at Mumbai, India
- Client : ONGC, India  
Project : Offshore facilities both brown and green field HRP/HPC projects.
- Client : ONGC, India  
Project : Both Green field and brown field NWIS-R (Water Injection facility comprised of Sea water lift, DO towers, LSW (low salinity water), water injection pumps, Fuel gas conditioning unit and other utility facilities offshore in Green field and modification on similar units on existing facilities.
- Client : ONGC, India  
Project : Cluster 8 Marginal Field Projects (C8MFP).
- Client : ONGC, India  
Project : E3KGD-DWN 98-2 CPP & LQUP Offshore Process platforms project at Kakinada, AP May 2019
- Client : ONGC, India  
Project : BDP 3 construction of 3 Well Head platform and process units, Green and Brown field project at Bangalore, India.
- Client : ONGC, India  
Project : Onshore project South Banskandi GCS & Pipe line project.

## 8.2 HAZOP STUDIES

- Client : Qatar petroleum, Qatar  
Project : FEED Incinerator at HWITC for Qatar petroleum ( QP ) at Doha Qatar.
- Client : Qatar petroleum, Qatar  
Project : FEED HAZOP Study for New vapor Recovery unit at Doha, Qatar
- Client : ENOC, UAE  
Project : FEED for ENOC/EPCL at Dubai for their Refinery Expansion, Tankage Facilities.
- Client : Metito, UAE  
Project : Metito, Dubai, at Dubai for WTP and ETP (STP).of capacity 757m3/hr plant
- Client : Sharjah International Airport, UAE  
Project : STP project for Sharjah International Airport at Sharjah
- Client : Sharjah Govt, UAE  
Project : STP Project Phase 4 & 5 of 65,000m3/day of each phase for sharjah Govt at Sharjah.
- Client : Sharjah Govt, UAE  
Project : STP Kalba Project to client Sharjah Govt at Dubai
- Client : Kuwait Oil Company, Kuwait  
Project : KGOC/KJO and KOC for new slug Catcher facility and condensate export system,  
Pig launcher/receiver, Tie in points and utility systems
- Client : Kuwait Oil Company, Kuwait  
Project : KOC, at Kuwait , for installation of New Wet crude and Effluent water tanks and APS  
pump station facility.
- Client : Kuwait Oil Company, Kuwait  
Project : KOC at Kuwait for EW/001/004 project upgradation of the existing facility.
- Client : Kuwait Oil Company, Kuwait  
Project : Kuwait Oil Company (KOC) Telemetry project for monitor and controlling of  
Consumers Network systems for 3 weeks
- Client : Chevron, Kuwait  
Project : HEISCO for their principals Saudi Arabian Chevron Company (SAC) for their shipping  
Loading Valve station.
- Client : Saudi Aramco, SaudiArabia  
Project : Saudi Aramco for their facilities HW2, UGOSP 8 and UGOSP 11 Oil,Gas and utilities  
Facilities at Saudi Arabia,
- Client : SABIC, SaudiArabia  
Project : FEED SABIC/SADAF MTBE improvement projects, SaudiArabia at Woods, Reading,  
London.
- Client : Thai Rayan public limited, Thailand  
Project : Thai Rayan public limited company for their sulphur storage and melting plant.
- Client : Cairn Energy, UK  
Project : Cairn Energy at Portbhandar terminal for reverse flow modification system.
- Client : GPS, Netherland  
Project : PH II installation for client GPS Netherland on utility systems.
- Client : GPS, Netherland  
Project : GPS, Amsterdam, Phase two gasoline storage terminal expansion project at Dubai  
for three days.

- Client : Cavite BioFuel, Philipines  
Project : Cavite Bio Fuel project facilities ,Philipines.
- Client : Petron Refineries, Philipines  
Project : Petron Refineries, at Philippines for more than 4 weeks, for Units covered part of the studies are HPU, HRU, SRU, TGTU, RFGATU and Utilities.
- Client : FPSO, Singapore  
Project : FPSO at Singapore. The units covered as a part of this study are : Top Sides and Marine studies.
- Client : Friulco SPA, Italy  
Project : USINSK project for Amine Gas Desulphurization Unit for Friulco Italy SPA at Paris.
- Client : IOCL, India  
Project : IOCL Sendra pumping station and other stations in Rajasthan area.
- Client : BPCL, India  
Project : BPCL pipe line project at Rajasthan area at Kota and Piyala installations and other associated area at Delhi for four days.
- Client : ONGC, India  
Project : ONGC, Vendor Packages Gas Dehydration Unit, Hot oil system, Mono Ethylene Glycol system and Refrigeration units
- Client : ISRO, India  
Project : ISRO ICERT facilities on their PFS system at Nagarkoil T Nadu for Tata Projects Ltd , Mumbai for four days.
- Client : Adani LPG, India  
Project : ADANI LPG terminal at Mundra and Dhamra project.
- Client : Adani LPG, India  
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- Client : Reliance, India  
Project : Aviation Fuel unit at NewDelhi.
- Client : TATA steel Company, India  
Project : Coke oven gas newly designed flare system at Jamshedpur
- Client : NGEnergy, India  
Project : LPG import terminal operation.
- Client : Mahanagar Gas, India  
Project : Mahanagar gas Pipeline project at Mumbai.
- Client : GSPL, India  
Project : LNG FSRU projects to client GSPL Gujarat State Petronet Ltd
- Client : BOC, India  
Project : HAZOP study for BOC Oxygen and Nitrogen core plants of Taloja.
- Client : SOCAR Polymer, Azerbaijan  
Project : SOCAR Polymer, High Density Polyethylene (HDPE) Plant, Sumgayit (Azerbaijan)& all vendor packages.
- Client : IOCL, Gujarat Refinery  
Project : LUPECH project for their AVU, ARU&SWS, AU-V, GDS, BS VI Fuel GDS Revamp and HCU units.
- Client : ExxonMobil  
Project : FEP EGF project

- Client : Triveni Turbines  
Project : Rotamac EPC Energy solutions UK of 2x28.6 MW TG set.
- Client : ONGC (Offshore)  
Project : Offshore platforms (Pipeline Replacement project roughly around 50 platforms) along with pipe laying project at Barge LTP 300
- Client : ExxonMobil, USA  
Project : OMCC AREA 1
- Client : Talchair Fertilizers Limited  
Project : Ammonia & Refrigeration unit

## 8.3 PHSER STUDIES

- Client : Kuwait Oil Company, Kuwait  
Project : Installation of New Wet crude and Effluent water tanks and APS pump station facility.
- Client : Kuwait Oil Company, Kuwait  
Project : PHSER 3 & 4 for ECO to their principal Client KOC for project GC 23 North Kuwait at Kuwait.

## 8.4 SAFOP / E-HAZOP'S

- Client: PETRONAS CARIGALI IRAQ HOLDING B.V  
Project: EPCC For Oil Train 3, 4 And 5 For Petronas Carigali Iraq Holding B.V
- Client: ADNOC Refining (TAKREER - Abu Dhabi Oil Refining Company)  
Project: NORM Handling, Treatment and Disposal Project
- Client: ADNOC Refining (TAKREER - Abu Dhabi Oil Refining Company)  
Project: IRP-2 Oil Terminal Project Abu Dhabi
- CLIENT : Jubail Alkali Chemicals Ltd, Saudi Arabia  
PROJECT BRIEF : Epichloro Hydrin and associated plants
- CLIENT : SONELGAZ, ALGERIA (On going Project)  
PROJECT /CAPACITY : 2 x 271 MW Simple Cycle Power Plant Project Berrouaghia, Algeria
- CLIENT : Indian Oil Corporation Ltd.  
PROJECT /CAPACITY : Air Fueling Station at International Airport Mumbai

## 8.5 ENERGY OPTIMISATION STUDY

- Client: ADNOC Refining (TAKREER - Abu Dhabi Oil Refining Company)  
Project: EPC for IRP-2 Oil Terminal Project Abu Dhabi
- Client: ADNOC Refining (TAKREER - Abu Dhabi Oil Refining Company)  
Project: FEED for IRP-3 Oil Terminal Project Abu Dhabi
- CLIENT : Jubail Alkali Chemicals Ltd, Saudi Arabia  
PROJECT BRIEF : Epichloro Hydrin and associated plants
- CLIENT : SONELGAZ, ALGERIA  
PROJECT /CAPACITY : 2 x 271 MW Simple Cycle Power Plant Project Berrouaghia, Algeria
- CLIENT : AL DHAFRA PETROLEUM OPERATIONS COMPANY LTD.  
PROJECT BRIEF : Haliba Development Project
- CLIENT : ADNOC Onshore  
PROJECT BRIEF : EPC FOR BAB 485 MBD SUSTAINABLE FACILITIES PROJECT

# 9 LIST OF IMPORTANT CLIENTS



# 10 LET'S CONNECT



## 10.1 OUR INDIA CONTACT

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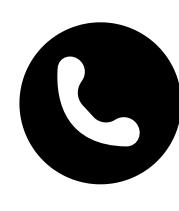


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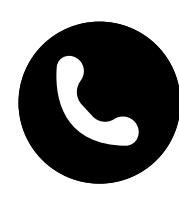
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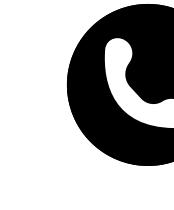
**Email**  
ys.lee@il-yang.net  
ys.lee@il-yang.net



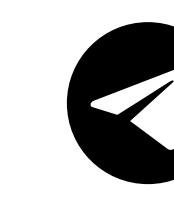
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# 11 OUR ASSOCIATES

