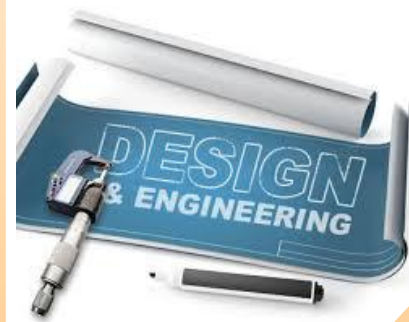


NAPESCO INDIA

(A Subsidiary of NAPESCO International, Kuwait)



HSE & Risk Management Consultancy
Engineering and Design
Man Power Supply
Commercial Sales of Industrial
Products & Services



**COMPANY PROFILE
& SERVICES PORTFOLIO**

Profile

NAPESCO INDIA LLP, an Indian Subsidiary of NAPESCO International, Kuwait has been established in Chennai, India to serve the Middle East - GCC Market in the areas of HSE & Risk Management Consultancy Services, Engineering & Design Consultancy Services, Manpower Supply and Commercial Sales of Industrial Products & Services. NAPESCO INDIA plans to expand its operations into SAARC countries, South –East Asia and Pacific Region.

NAPESCO INDIA'S high end technical solutions are delivered by a team of experts of International Repute, having Technical and Managerial Experience. NAPESCO INDIA serves Operating Companies, Design & Engineering, EPC and HSE Companies in various Industrial sectors such as Oil & Gas, Fertilizer, Petrochemical, Process industries etc.,

The parent company, National Petroleum Services Company (**NAPESCO**), Kuwait, an **ISO 9001 & 14001** certified company, is in to upstream Oil field services, and in Downstream & Energy Services providing HSE Consultancy, Environmental Monitoring & Analytical Laboratory Services, Halon Management, Fire System Services and Process Design & Engineering Services etc.

NAPESCO plays the major role in Kuwait with a market share of over 80% in the HSE consultancy and Environmental Laboratory services carried out for State owned Oil companies – Kuwait Petroleum Corporation, Kuwait Oil Company, Kuwait National Petroleum Company, Saudi Aramco- Kuwait Gulf Oil Company - Joint Operations in Wafra and Khafji. NAPESCO's Environmental Lab in Kuwait with **ISO 17025** Accreditation is the first of its kind in Kuwait and it also serves to all neighbouring GCC countries apart from Kuwait. It also has in-house expertise to offer Industrial Hygiene Assessments, Indoor Air Quality Monitoring, Workplace Assessments, Ergonomics Studies etc. NAPESCO INDIA supports its parent company in Kuwait in execution of many of the above activities and intends to provide the above services directly to its clients outside Kuwait.

NAPESCO INDIA offers the following core services,

- HSE & Risk Management Consultancy & Training Services
- Process Design & Engineering Consultancy
- Man Power Supply and Management Services
- Commercial Sales of Industrial Products & Services

Vision

To become a high quality competitive solution provider through Cutting Edge Technology and Specialized Engineering & Management Consultancy Services in Asia, yielding maximum return on investment for our shareholders and adding value to our stake holders.



Mission

As a Young Organization with people of rich experience and pioneers in our chosen domains, NAPESCO INDIA is committed to provide the following,

- Quality services to our Clients
- Delight to all Stakeholders
- Contribution to the Society by sharing Technical and Management knowledge

Commitment

NAPESCO INDIA shall utilize Best Practices in HSE, Management Processes and Information Technologies to ensure no harm to people, no harm to the environment and thereby to create a practical management model that can be replicated in ventures.

NAPESCO INDIA shall provide reliable value added solutions to our Customers through the introduction

of New Technologies and unique solutions imported from our Technology Partners and through Technology Development Programs.

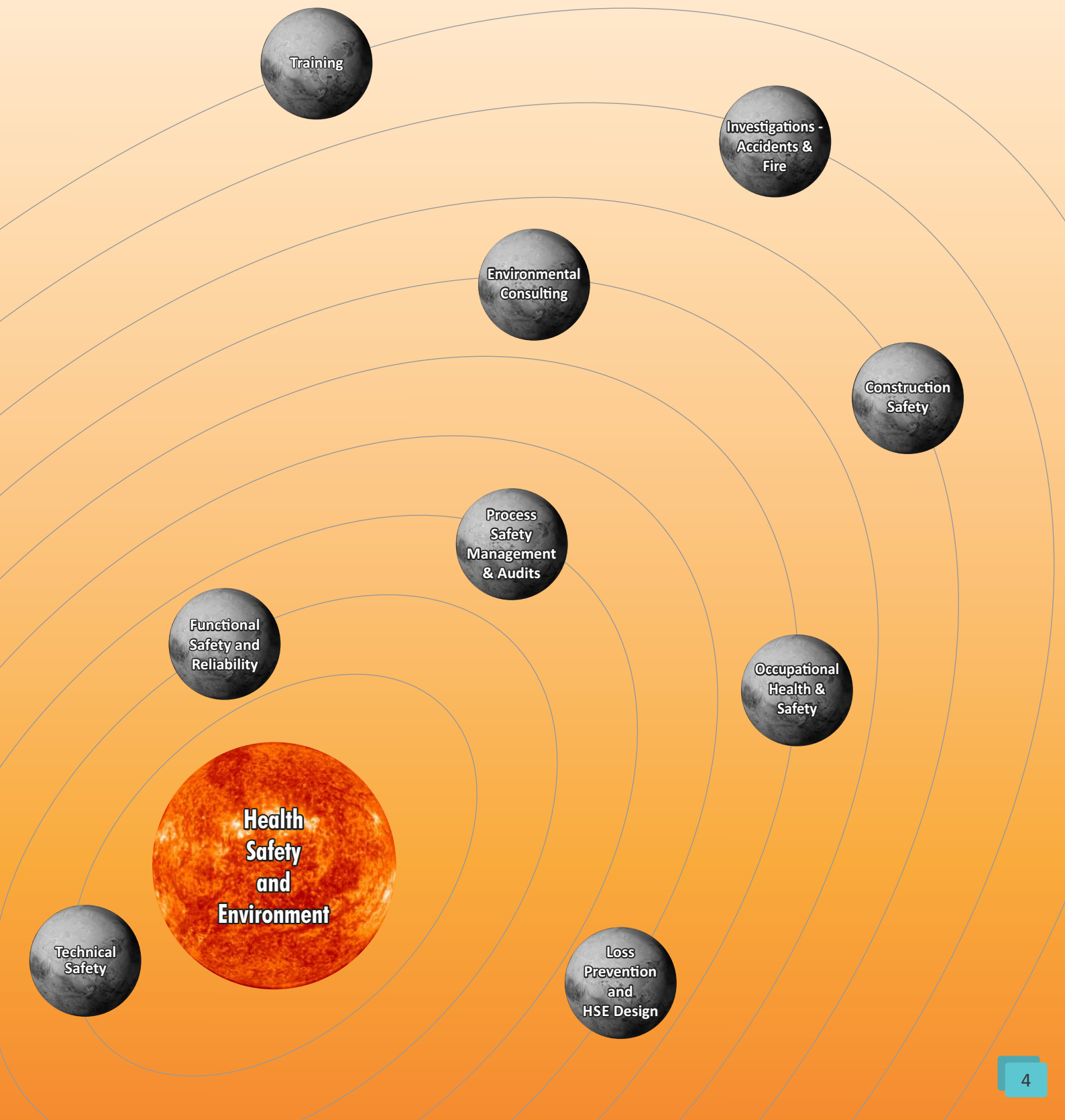
The company will strive to attract and retain Qualified Professionals through a rigorous recruitment process and develop them within a structured Grading and Competency System. We shall adopt

a comprehensive partnership culture with all employees, promoting team spirit and aligning their personal aspirations with that of the Company's Vision.

NAPESCO INDIA shall maximize our market share in our current markets and expand regionally, either directly, through partnerships or through strategic acquisitions.

HSE & RISK MANAGEMENT CONSULTANCY SERVICES

NAPESCO INDIA offers complete spectrum of Health, Safety, Environment and Risk Management Consulting and Training Services. These services are customized to suit the needs of client based on the International and Corporate standards. NAPESCO INDIA also guides Implementation Programs through its pragmatic approach.



Qualitative and Quantitative studies impacting the Design, Operation and Maintenance of the facilities are covered under the Technical Safety Consultancy Services. The Specialized Technical Safety Services applicable to Onshore and Offshore Oil & Gas sector, process facilities are provided by NAPESCO INDIA's experienced team.



PHA studies offered include Hazard Identification (HAZID), Hazard and Operability Study (HAZOP), What If Analysis, Failure Mode & Effects Analysis (FMEA), Bow Tie Diagrams, LOPA etc. Various Risk assessment studies such as Fault Tree/ Event Tree Analysis, Consequence Analysis, Risk (LSIR, IRPA, PLL and Societal Risk) Estimation, ALARP analysis, Ship Collision, Helicopter risk, Dropped Objects study, Occupation Risk, H₂S zoning, Toxic Risk Assessment, Explosion Risk Assessment are provided based on the nature of industry and types of risks. Fire Safety studies include Fire Hazard Analysis, Fire Risk Assessment which

follow qualitative and quantitative approach. Emergency planning services offer preparation of Emergency Response Plan, conducting HAZEER (Hazard Identification in Emergency Escape and Evacuation), EERA (Emergency Escape, Evacuation and Rescue Analysis), ESSA (Emergency Systems Survivability Analysis) Studies. Project Risk Assessment (Qualitative), Project Quantitative Risk Assessment (PQRA), Simultaneous Operations (SIMOPS) study – both qualitative and quantitative, PHSER (Project HSE Review) studies are also some of the widely used services by the clients of **NAPESCO INDIA**.

Functional Safety & Reliability

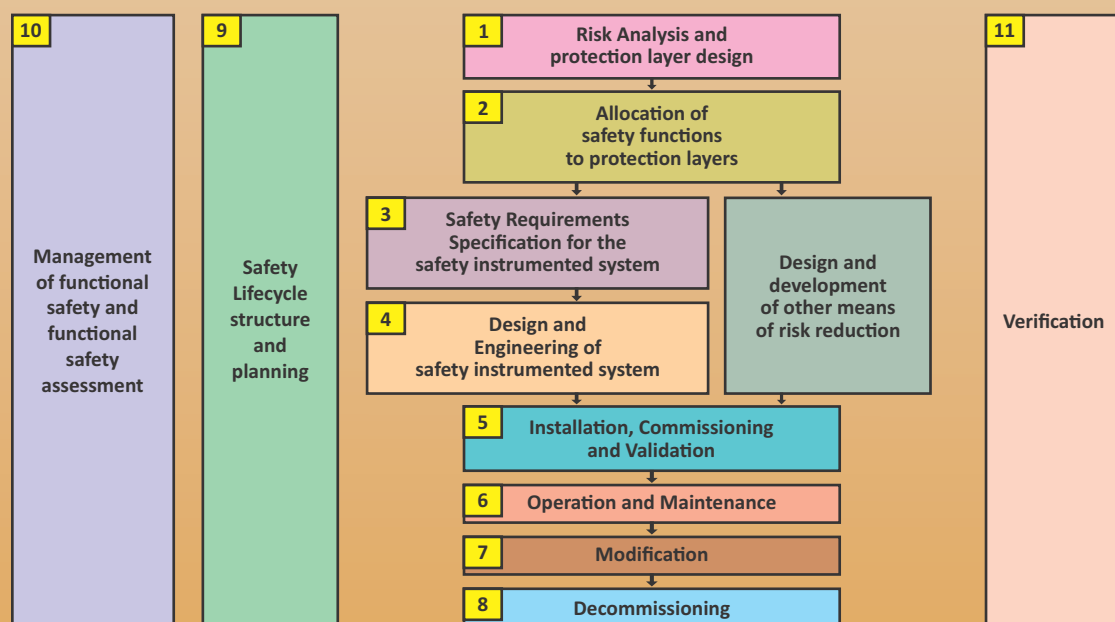
Safety Life Cycle

NAPESCO INDIA assists the Operating Companies and Designers in implementation of Safety Instrumented System as per IEC 61508/ 61511. SIS implementation is carried out by the team led by Certified Functional Safety Expert.

Some of the typical services mentioned in the Safety Life Cycle and offered by NAPESCO INDIA include,

- SIL Assessment
- Safety Requirement Specification Preparation
- Design SIL Verification
- SIL Validation
- Functional Safety Assessment
- Functional Safety Audit

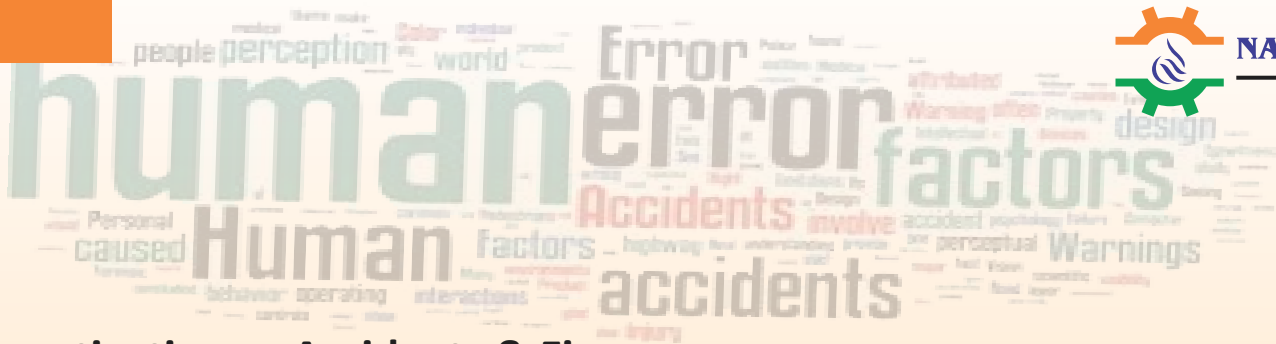
NAPESCO INDIA also helps in preparing Corporate Life Cycle guidelines for implementation.



Reliability

Following services are offered to ensure the reliability of the Equipment / Facility is in line with the risk posed by them.

- Identification of HSE Critical Equipment System (HSECES/ SCE)
- Performance Standards for HSECES
- Written Scheme of Examination (WSE)
- Reliability, Availability and Maintainability (RAM) study
- Risk Based Inspection (RBI)
- Risk Centered Maintenance (RCM)



Investigations – Accidents & Fire

Accidents at workplace can result in Fire, Explosion, Fatality, Asset loss, Toxic release or Business interruption. Post loss assessments/Accident investigations are conducted to achieve the following objectives:

- To identify the root cause of the accident
- To analyze the escalation factors that increased the extent of loss
- To provide recommendations that prevent the recurrence of such incidents in future



NAPESCO INDIA employs Investigators who have carried out hundreds of accident investigations in commercial and industrial sectors across the globe in the past. The reports submitted by them have been accepted by Statutory Authorities and Corporate Management. The techniques such as Root Cause Analysis, Tap Root Analysis, Fault Tree Analysis, Failure Mode and Effects Analysis, Fish Bone Analysis are used for the accident investigation. Suitable Software Tools are also employed for the accident investigation. Additional support will be taken from Experts and Laboratories dealing with Forensic Science, Geology, Metallurgy, Special Equipment/ Electrical Devices etc., whenever required. The recommendations will be based on the international and national standards and best safety practices followed in the industry.



Training

NAPESCO INDIA utilizes a team of well experienced and certified trainers of high calibre to offer a variety of high end Training programs and conducts workshops on Specialized topics in the area of Safety & Risk. The workshops are customized to the requirements of the client and conducted at end users premises. The sessions are handled by the experienced specialists and will be highly interactive. Case Studies / Exercises oriented sessions are supported by the audio visual presentations/Short films. The training program duration will be between 1-3 hours, each based on the participants profile and need.

- Chemical Safety
- Electrical Safety
- Construction Safety
- Process Hazard Analysis (PHA)
- Process Safety Management
- HAZID / HAZAN / HAZOP /FMEA
- SIS Life Cycle implementation
- SIL/LOPA
- QRA
- COMAH (Includes Bow Tie)
- Safety & Risk Assessment
- Risk & Reliability
- Fire Safety
- Fire Protection Design
- General Safety
- First Aid
- Hazardous Area Classification
- Accident Investigation
- Office Home Safety
- Defensive Driving – Theoretical and Practical through Advanced simulator
- Dangerous Good Transportation safety-ADR
- Behavior Based Safety
- Hazardous Waste Management
- Hazardous Waste Site Ranking
- Hazardous Site ranking & Principles
- Risk Management Plan for Hazardous waste sites
- Fire System Inspection and Maintenance





HSE Design & Loss Prevention

Following services are undertaken as part of Loss Prevention and HSE Design:

- Fire & Gas Mapping study
- Fire Protection Design & Review (Passive / Active)
- Vent sizing
- Flare Radiation and Dispersion study
- Hazardous Area Classification
- Layout Safety Review
- Safety Layout Review

The studies/ design reviews are carried out using National, International (API, NFPA, IEEE, IEC etc.) and Corporate Standards with reputed Software Tools.





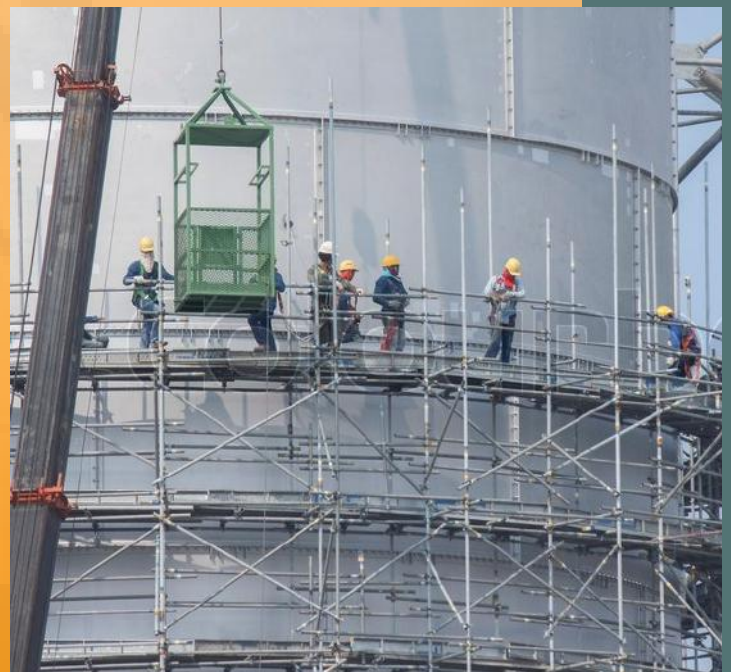
Construction Safety Audits



Construction Safety Audits are necessary to check existing conditions against established expectations at construction sites. The typical Construction Safety Audit checklist is not designed to supersede existing safety inspection checklists, rather it is used only as a general guideline to assess the existing safety conditions at the site.

Construction Safety Audit primarily covers the following,

- General Inspection
- Site Security
- Orderliness and Material Storage
- Fire Protection / Prevention
- Personal Protective Equipment
- Confined Space Procedure
- Environmental
- Health Hazard Control
- Hazard Communications
- Hoists, Cranes, Derricks and Rigging
- Heavy Equipment
- Motor Vehicles
- Electrical Safety
- Lockout Tagout
- Welding and Cutting



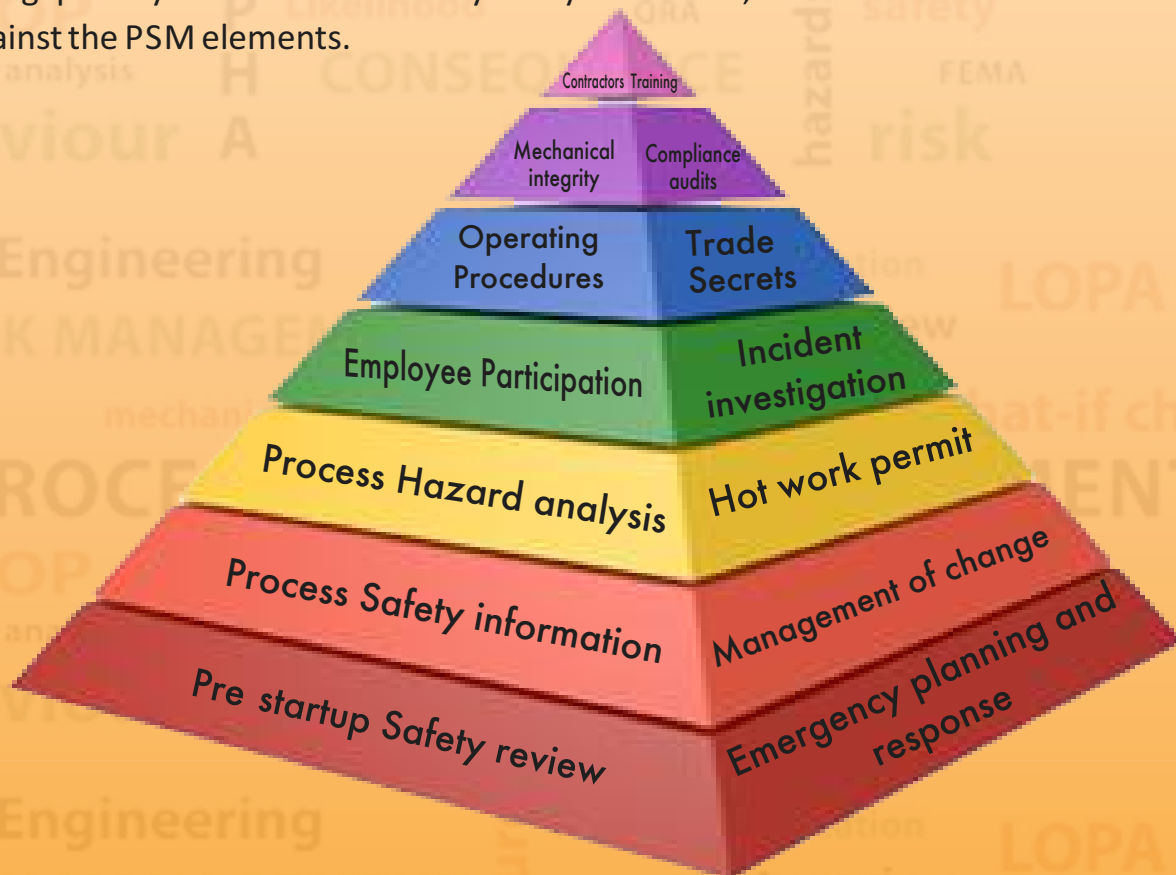
Apart from Construction Safety Audits, NAPESCO INDIA also develops Construction Safety Manuals and Safety Procedures etc.

Process Safety Management (PSM) & Audits

NAPESCO INDIA offers PSM implementation and Audit Services as per OSHA requirements. The objectives of PSM Audit includes the following,

- To carry out a systematic, critical appraisal of all potential hazards involving Personnel, Plant, Services and Operation method
- To ensure that Occupational Safety and Health system fully complies with legal requirements and those of the Company's written Safety Policies, Objectives and Progress
- To evaluate the status of existing OH&S Management System Elements against OSHA PSM Standard 1910.119

The gap analysis are carried out by study of records, site observation and evaluation against the PSM elements.



NAPESCO INDIA conducts Safety audits, for the Upstream and Downstream processing and Industrial Facilities, Pipelines, Commercial Buildings to identify the Hazards in the respective areas, to do gap analysis against the International, National and Corporate Standards and to suggest improvements in the HSE Management Systems and Devices etc. Audits are carried out by the team of experienced and qualified HSE professionals. Recommendations are prioritized based on the Statutory and Industry Practices.

Occupational Health & Safety

Health and Safety at work is an issue affecting business and implementing an Occupational Health and Safety System is now a legal requirement in many countries. NAPESCO INDIA provides OHS Consultancy Services including formulating of Health and Safety Policies suitable for individual circumstances.

NAPESCO INDIA is well positioned to work with the Organizations to address their Worker Health and Safety issues.

NAPESCO INDIA's OHS's Service includes,

- Facility Audits
- Workplace Hazard Evaluation
- Rapid Emergency response measures
- Sampling and analysis to evaluate compliance with OSHA/ PEOSHA
- Identification of unknown workplace contaminants and chemical hazards
- Identification of physical , biological and ergonomic hazards
- Investigation of Worker discomfort complaints
- Recommendation of appropriate contaminant control practices
- Development or Review of worker protection programs
- Personal Exposure Monitoring
- Noise surveys
- Development of Control methods
- Hazard communication
- OSHA/PEOSHA Audits
- Hazardous material management
- Ergonomics Consultancy



Environmental Consulting & Waste Management

Pollution is defined as the Undesirable Elements in the Environment which affect life and property adversely. Pollution occurs naturally or through manmade sources and exists in the form of Air, Water, Soil, Noise, Hazardous & Radio active pollutant. A proper Environmental Management program including Waste minimization and Waste management is required as these pollutants have long lasting effects in the Environment. NAPESCO INDIA offers wide variety of Environment Consulting Studies such as Environment Impact Identification (ENVID), Environment Impact Assessment (EIA), Environment Management Plan (EMP) etc.

Waste Management Services offered by NAPESCO INDIA with the support of its parent company include,

- Characterization and Quantification of solid waste (Industrial and Hazardous)
- Collection , Inventory and Storage
- Transportation and Disposal
- Recovery , Recycling and Utilization
- Landfill Remediation and Rehabilitation
- Long term Solid Waste Management Plans
- Industrial Waste Water Treatment

NAPESCO INDIA Specializes in providing Treatment and Remediation of Hazardous Waste occurring from oil sludge pits, effluent pits, drill cuttings and contaminated soil using various techniques including,

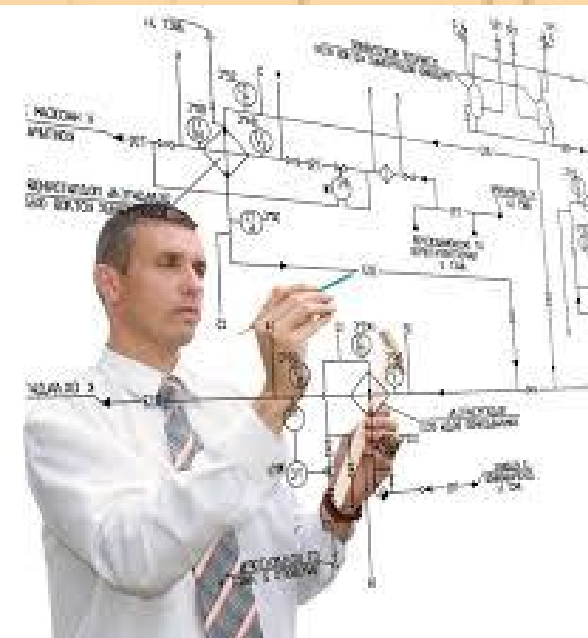
- Thermal Desorption
- Oil and Recovery & Sludge Treatment
- Bio-Remediation
- Rehabilitation



Process Design and Engineering Consultancy

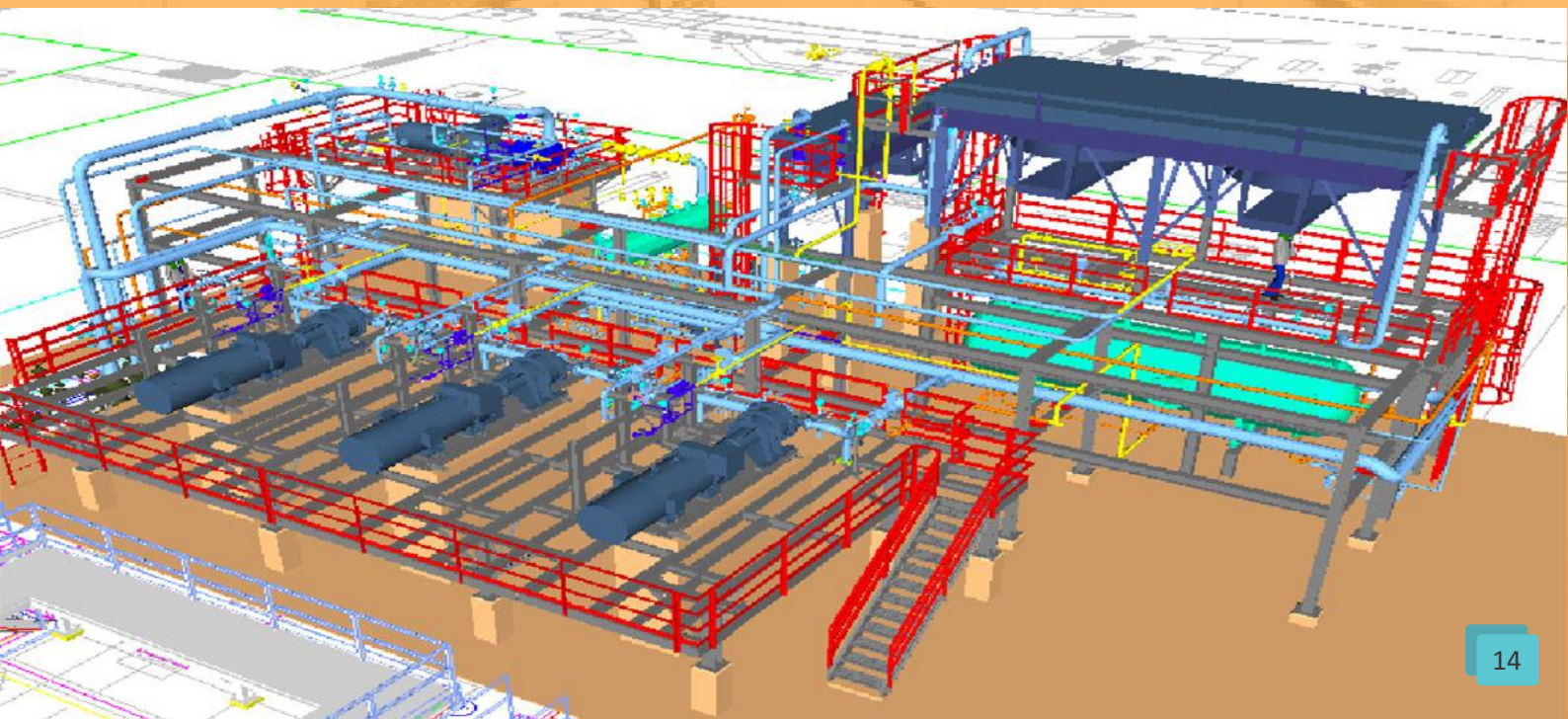
As a part of the organization's strategic business growth, NAPESCO INDIA has ventured in to Design and Engineering Services through utilizing its inhouse expertise with the support of external Consultants / Agencies.

NAPESCO INDIA, as a provider of Specialized Engineering Consultancy, have successfully accomplished several Engineering Consultancy projects including Process Engineering and other Design activities for Oil & Gas sector.



Some of the Design & Engineering Projects handled by NAPESCO INDIA include,

1. Debottlenecking / Upgradation of LP Separator for Joint Operations, Wafra.
2. Upgradation of Fire water network for Joint Operations, Wafra.
3. Fire Alarm and Fire Fighting system Upgradation for Joint Operations, Wafra.
4. Development of Standard Operating Procedures for Joint Operations, Wafra.
5. As Build Documentation for Joint Operations , Wafra.

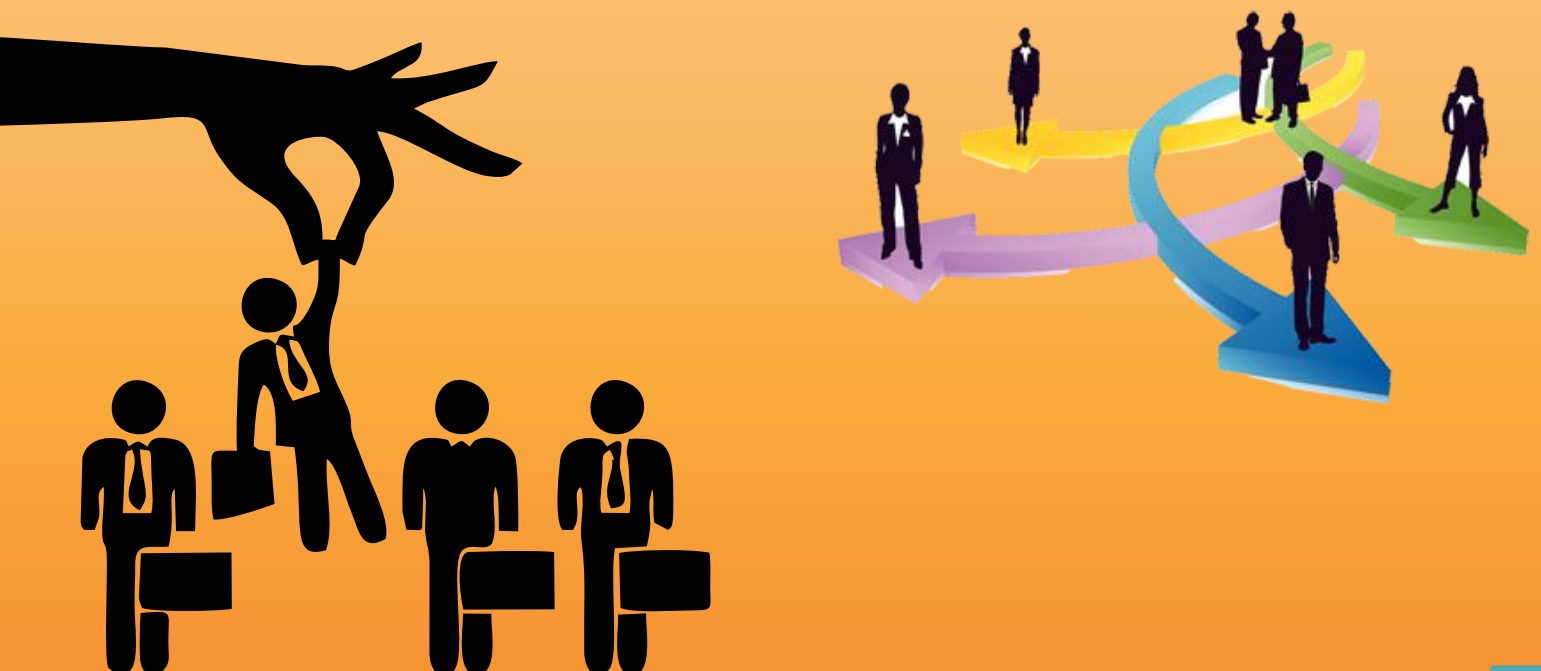




Specialized Manpower Supply

NAPESCO INDIA provides Organizations with Qualified & Competent Manpower supply solutions efficiently for current job openings, both Technical and Non- Technical for Oil & Gas Industry.

These Secondment Consultants offer high quality services, Standardization of processes, increased speed, Quick response time and Timely delivery as per assigned Job. They excel at multi- tasking at fast paced environment, completing tasks/ projects within time and budget constraints. They also effectively liaison between all impacted departments to ensure proper communications and reporting practices. They also ensure compliance to Statutory and Regulatory authorities of respective countries in their chosen domain.



Specialized Products & Services

- Technical Analysis
- Research and Development on Engineering Technology
- Fire fighting and Fire alarm Services
- Support activities for Petroleum and natural gas mining incidental to On Shore and Offshore Oil & Gas Extraction
- Well Intervention and Stimulation-Cementing, Pumping,
- Coiled Tubing, Downhole Tools, Slickline, Logging etc.





RESOURCES - SOFTWARE TOOLS

NAPESCO INDIA utilizes high end internationally reputed software tools for providing its services. Some of the software tools used by the NAPESCO INDIA team are given below,

#	Name of the Software	Version	License Validity period
1	DNV PHAST	6.7	Perpetual
2	DNV PHAST RISK	6.7	Perpetual
3	CANARY	3.0	Perpetual
4.	exSILentia	3.0	Perpetual
5.	PHAPRO	8.0	Perpetual
6.	Reliasoft	9.0	Perpetual
7	ISOGRAPH	12.0	Perpetual
8	Flaresim	4.1	Perpetual
9	Hysys	8.8	Annual
10	PIPENET (Standard and Spray Module)	1.7	Perpetual
11	ANSYS Fluent	17.0	Perpetual

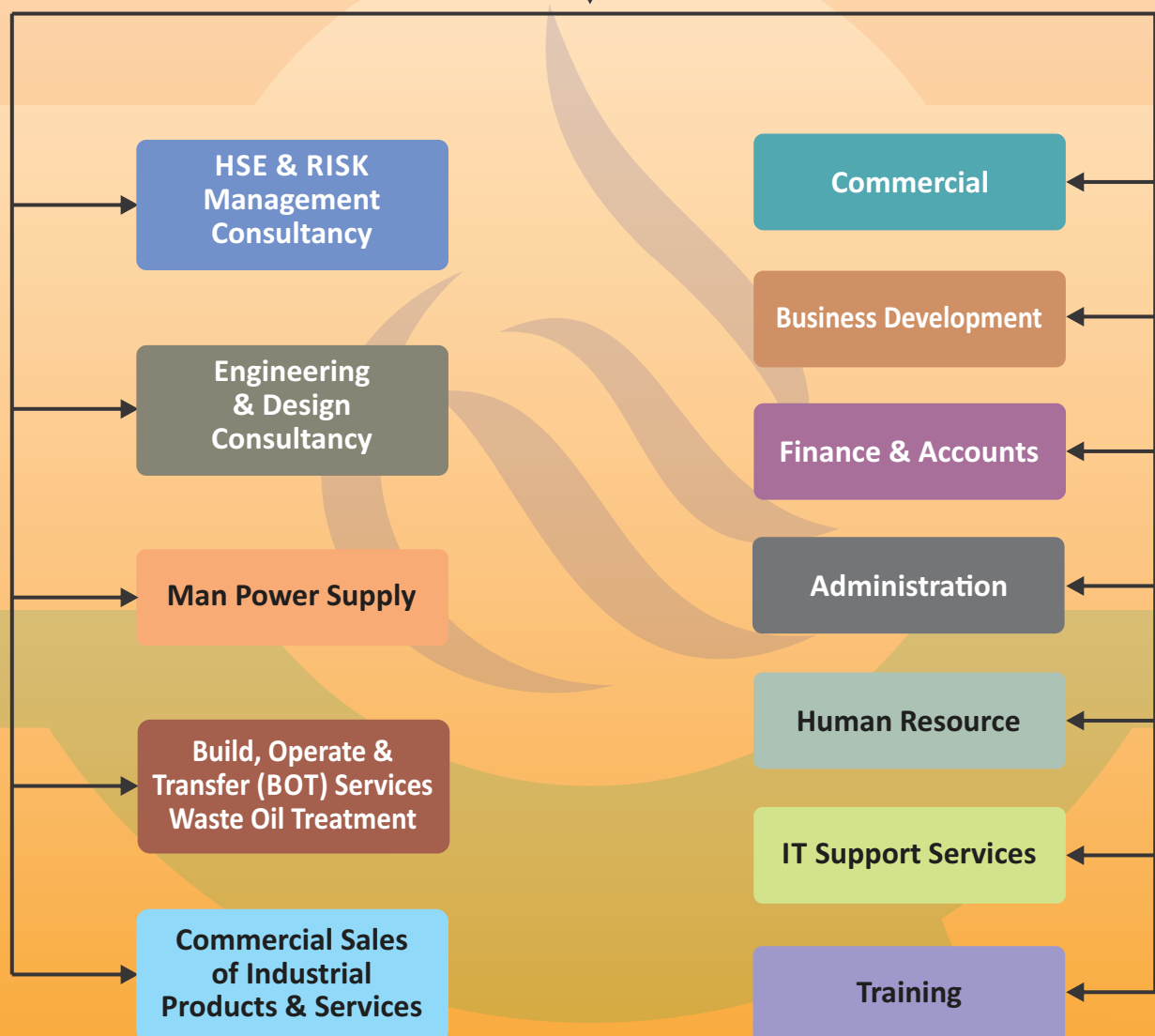


ReliaSoft



ORGANISATIONAL CHART

CEO



Operating Companies



Clientele

Some of our Major Clients who form a part of our clientele list are as follow,

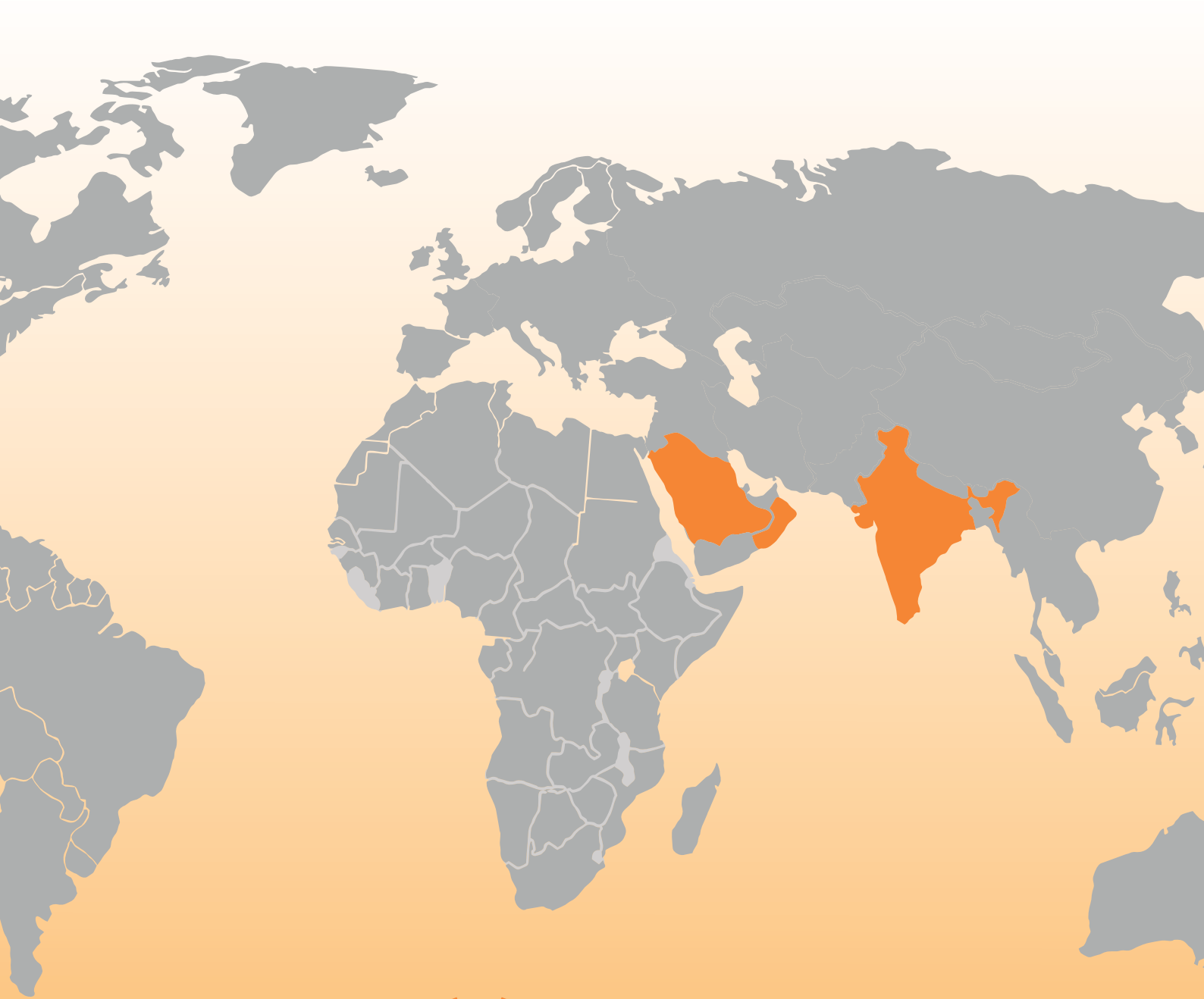
Operating Companies

- Kuwait Oil Company
- Kuwait National Petroleum Company
- Joint Operation (KGOC & Saudi Arabian Chevron), Wafra
- Qatar Petroleum
- LukOil, Iraq
- PIC

Engineering Companies

- Dodsai Engineering
- Petrofac
- Worley Parsons
- Kentz Engineering International
- Gulf SPIC
- Al Ghanim International
- HEISCO
- Mushrif Engineering
- KCC EC





Regd. Office

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