



“  
Expertise  
Beyond  
Boundaries  
”

**YMG OILTECH  
ENGINEERING &  
CONSULTANCY LLP**

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# What we do?.

At YMG OIL TECH ENGINEERING AND CONSULTANCY LLP, We are giving one-stop-solution for complete project in every field along with assurance of the functioning of the project along with long term relationship with the OM. We are a Company Renowned in the region for its quality, safety, and on-time delivery of projects and products.

We provide turnkey solutions from Concept to Commissioning Plants making the clients dream into reality with Great ROI.

Our Ability to persist in market, with strong management and delivery Global quality solution. We have a positive track record of consistently delivering on projects and products according to required & specific standard.

We provide Best Solution on the problem to curve from the roots. We respond to market demands and as a Solution & Service provider, create new markets and drive new demands.

We are Engineers specializing in Process, Piping, Mechanical, civil / Structural, Instrumentation, Electrical.

Project Management resources with experience in executing large and complex projects.

We are specialized in Manufacturing diverse range of customised Process Equipments & Modular Fabrication is one of key point leading to delivery cost & on time delivery of the projects. We have in-house manufacturing of process equipment's, Evaporators, Reactors, Vessels, Agitators, Heat Exchangers, Tanks, Distillation, Dryer, Filtration, Centrifuges, etc.

This unique strength enables us to provide solutions as EPCC (Engineering, Procurement, Construction, and Commissioning) services provider to host Domestic and International Clients. With a proven track record of successful projects and satisfied clients, we have earned a reputation as one of the most trusted and reliable engineering firms in the industry. From large-scale infrastructure projects to small scale R&D development projects, our team of skilled engineers and designers are committed to delivering high-quality solutions that meet the unique needs of each client.





### • Vision

Our goal is to deliver efficient and high quality products at reasonable prices, meeting client's deadlines as well as their requirements.



### • Mission

To Attain Leadership of industry to provide high quality and cost-effective Engineering, Procurement and construction services to clients all over the world/Globe.



### • Values & Morals

#### Integrity



Do the right thing, even when unseen. Be trustworthy and respect confidentiality. Foster open, respectful communication. Learn from mistakes and honor commitments.

#### Teamwork



Strive for/to put what is right for team first. Teamwork brings together different skills & perspectives. We build better when we work together. Focus on 'WE' not on 'ME'.

#### Excellence



Best in class. Embrace innovative solutions. Maintain a high degree of perseverance. A willingness to "Stick to it".

#### Commitment



Being bound Emotionally & Intellectually to Institution. Be dedicated. Act with curve of urgency.

#### Gratitude



Take time to express thankfulness to others. Build strong workplace Relationship. Build Optimistic outlook & Reduce stress.

#### Trust



Create an environment of trust. Improve Brand image. We are open, honest, and constructive in our communication. Accepting each other's word.



# ■ HOW DO WE DO IT ■

**We conduct our work efficiently, promptly, and within established deadlines by:**

**1**

Implementing the latest equipment from global manufacturers

**2**

Applying patented technologies And their facilities and their continual improvement

**3**

Working with leading research centers

**4**

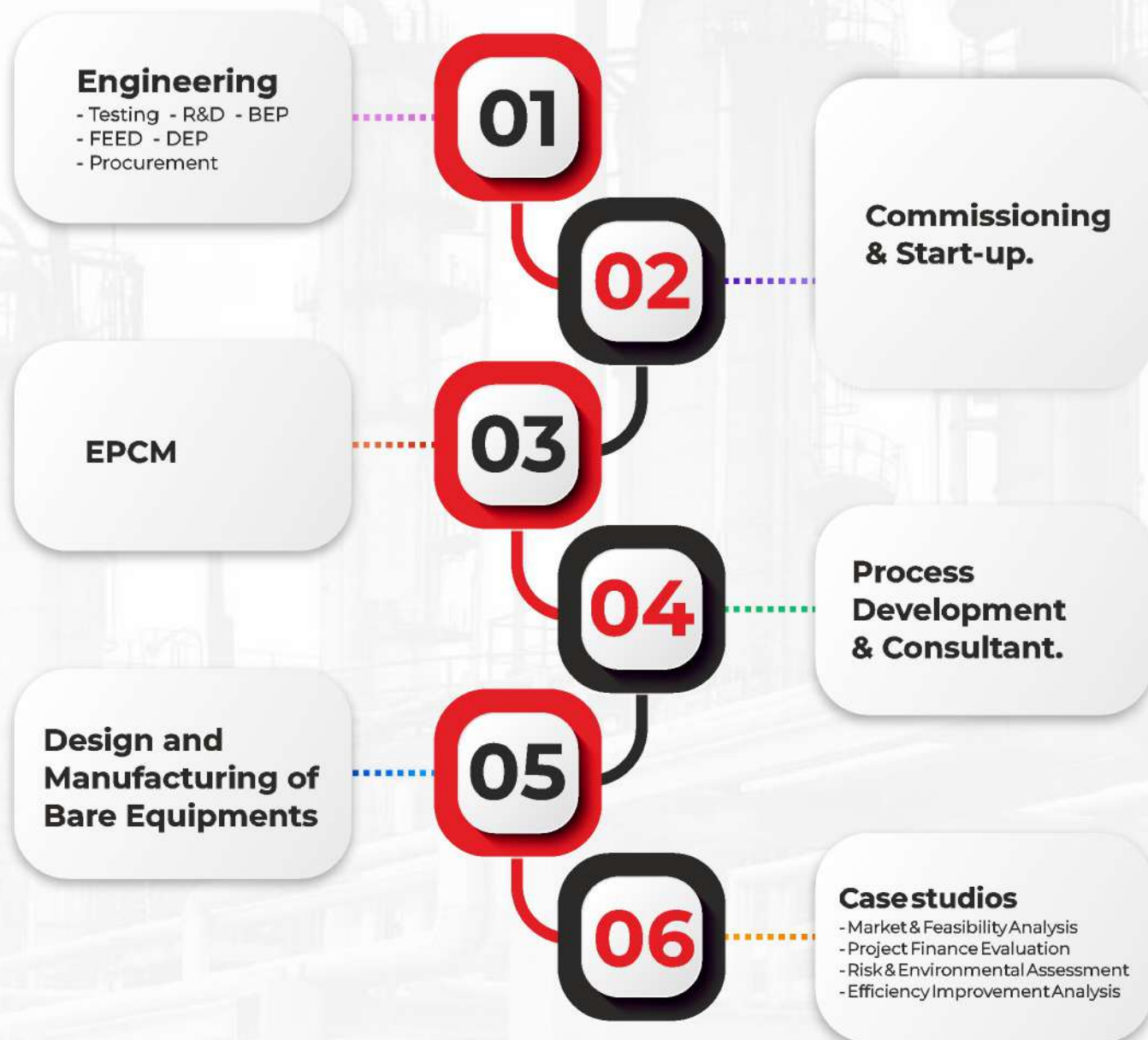
Consulting with top specialists in the oil refining industry

**5**

Complying with ISO 9001: 2015 during all stages of work

# Services we provide

We offer comprehensive solutions tailored to meet the diverse needs of our clients. Our expertise spans multiple domains to ensure excellence at every stage of your project.





# Equipment's

## Reactors



Industrial reactors (50–100,000 L) include batch, CSTR, PFR, and specialized types like glass-lined, high-pressure, and GMP models.

## Storage Tanks.



Storage tanks store liquids and gases for various industries, featuring high capacity, leakage resistance, and meeting universal safety standards.

## Centrifuges



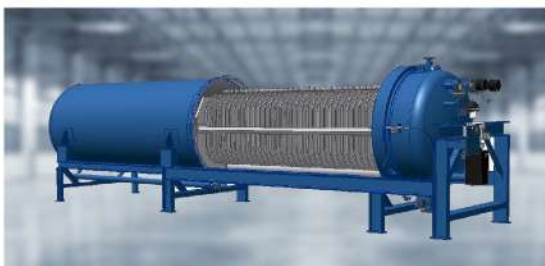
Centrifuges & decanters use centrifugal force for efficient separation of oil, water, and solids, with automated PLC control for easy operation.

## Pressure Vessels



PV Elite and Nozzle Pro softwares provide durable designs & high-quality pressure vessels for Oil & Gas, Refinery, and Chemical projects, meeting industry standards with safety-focused designs and custom specifications.

## Filtration



Filtration separates solids from fluids using methods like Cartridge, Nutche, Pressure Leaf, Sparkler, RVDF, and Zero Discharge Filters.

## Distillation (Column)



Distillation is a core of process industry. Distillation columns efficiently separate fluids and gases using advanced technology and internals like packing and trays.



## Evaporator



An Evaporator converts liquid to vapour for concentration or purification, with types like MEE, ATFE & FFE

## Heat Exchanger



Heat exchangers are essential for industries, transferring heat efficiently for cooling or heating. Types include shell & tube, plate, spiral, and air-cooled designs.

## Dryer



Drying removes water or solvents via evaporation, improving quality, stability, self life. Types include Spray, Tray, Fluid Bed, Spin Flash, ATFD, and others.

## Agitator



Agitators ensure reliable mixing for various processes, with types like Reactor, High Duty, Flocculator, and High-Speed, using impellers such as Pitch Blade & Rushton Turbine. CFD in mixing technologies.

Oil and gas engineering involves the design, construction, and operation of systems used to extract and process petroleum and natural gas. This field encompasses a wide range of equipment, including drilling rigs, pumps, compressors, separators, and pipelines, all of which are integral to the exploration, extraction, and transportation of oil and gas. Drilling rigs, for example, are used to bore deep into the earth to access oil and gas reserves. Pumps and compressors are essential for moving fluids and gases through pipes, while separators are used to isolate oil, gas, and water at production sites. Pipelines, both onshore and offshore, transport these resources to refineries or distribution points for further processing. Each piece of equipment is engineered for reliability, safety, and efficiency in the often challenging and hazardous environments in which they operate.



## • Front End Engineering Package



### Equipment Datasheets

- Prepare mechanical datasheets for main equipment.
- Integrate process specifications and code requirements during the BED phase.



### Process & Utility Diagrams

- Development of Process Flow Diagrams (PFDs) and Utility Flow Diagrams (UFDs).
- Creation of utility balances and material selection diagrams.



### Layouts & Plot Plans

- Detailed plot plans and hazardous area classifications.
- Preparation of main piping, instrumentation, civil, and electrical layouts.



### Thermal & Hydraulic Calculations

- Thermal rating of heat exchangers.
- Hydraulic calculations and line sizing reports.



### Specifications & Philosophies

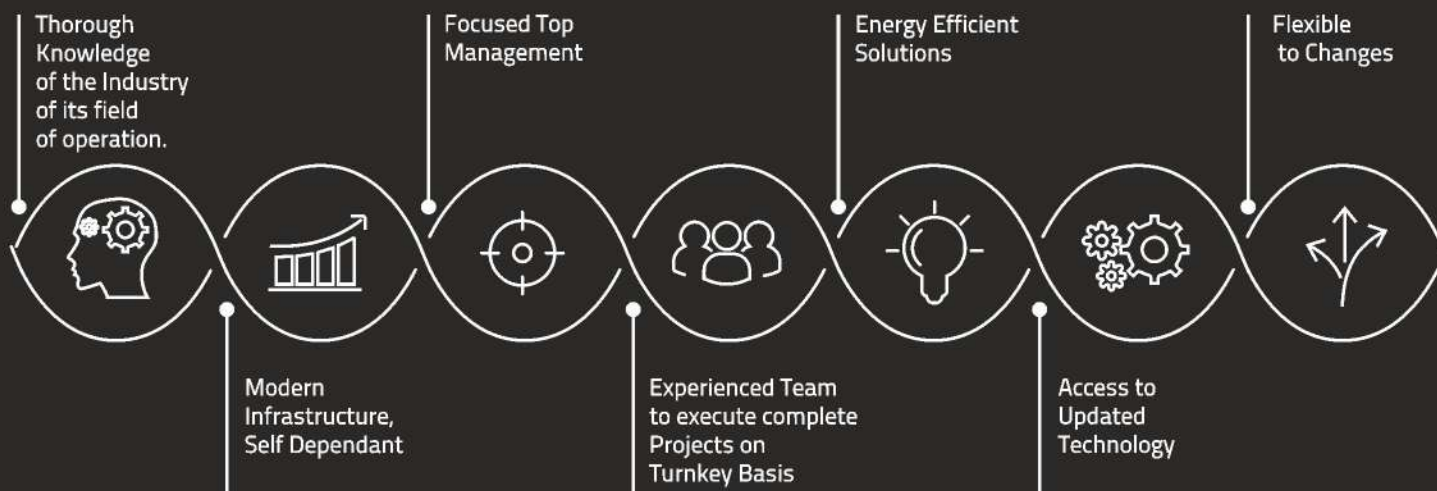
- Piping and insulation specifications.
- Development of operating, control, and safeguard philosophies.



### Material & Route Maps

- Material take-off (MTO) and piping route maps/single-line drawings.

## PROCESS



# PROCESS PACKAGE

## • Basic Engineering Package. (BED)



### **Process Design & Feasibility:**

Develop process studies, flow diagrams, and evaluate economic, environmental, and safety aspects.



### **Equipment Sizing & Layout:**

Size equipment, create layouts, and integrate mechanical datasheets.



### **Instrumentation & Control:**

Prepare P&IDs, incorporate control/safety devices, and develop equipment datasheets.



### **Engineering & Calculations:**

Perform basic calculations and prepare design documentation for equipment and instrumentation of overall plant.



### **Safety & Risk Assessment:**

Conduct HAZOP studies and develop cause and-effect matrices for risk mitigation.



### **Project Evaluation & Documentation:**

Prepare bill of quantities, assess scope, and document design parameters.

## • Detailed Engineering Package



### **Design, Engineering, and Analysis**

- Review and develop datasheets, technical drawings, equipment layouts, and specifications.
- Create detailed isometrics, stress calculations, and 3D models for RCC and steel structures.



### **Procurement and Vendor Management:**

- Handle procurement services for equipment, main and bulk purchases.
- Conduct technical bid analysis, vendor drawing reviews, and recommendations for purchases.



### **Construction and Operational Support**

- Release piping and instrumentation diagrams (P&ID) for construction and develop as-built drawings.
- Perform piping hydrotests, stability, expansion, alignment checks, and verify static/rotating equipment.



### **Safety and Risk Management**

- Participate in HAZOPS studies, incorporate findings, and ensure closure of reports.
- Conduct relief system studies, including relief load calculations.



### **Commissioning and Manuals**

- Prepare pre-commissioning, commissioning, and operational manuals.
- Inspect factories and oversee project & review meetings.



### **Electrical and Control Systems**

- Design and size electrical systems, control schematic diagrams, and interconnection diagrams.



# Pilot Plant, R&D, Lab Testing



We are uniquely positioned to offer a comprehensive range of R&D services across various areas of expertise.

Our dedicated team of engineers in the Pilot Plant and R&D department provides state-of-the-art facilities to support product development, helping clients scale their ideas from small-scale concepts to full-scale commercial solutions.

## **Our key services include:**

**Project Generation, Testing, and Optimization:** We focus on refining and improving project concepts for maximum efficiency and effectiveness.

- **Sample Production and Process Validation:** From initial sample production to process validation, we ensure seamless scalability and commercialization.

- **Commercialization Support:** We assist in bridging the gap between R&D and market readiness.

To safeguard the intellectual property (IP) of both parties, we execute appropriate non-disclosure agreements (NDAs).

In our pilot plants, we analyze the interplay of chemistry, physical parameters, and instrumental boundary conditions in complex processes, ensuring precision and reliability in every step.

# Pilot Plant Setups

The following setups are available for trials in the test centres:



## Evaporation

- Agitated Thin Film Evaporator (ATFE)
- Falling Film Evaporator (FFE)
- Rising Film Evaporator (RFE)
- Suppressed Boiling Evaporator (SBE)



## Short Path Distillation

- Short Path Distillation Unit (SPDU)







## **Drying**

- Agitated Thin Film Dryer (ATFD)



## **Extraction**

- Asymmetric Rotating Disc Column Extractor (ARDC)
- Centrifugal Extractor (CE)
- Sieve Tray Column Extractor (STC)



## **Crystallization**

- Plug Flow Crystallizer



## **Zero Liquid Discharge Systems**

- Multiple Effect Evaporator (MEE)
- Sludge Dryer (SD)

Performance guarantees of commercial scale plants are backed by trials at our workplace taken in the Pilot Plants

## **Utilities**

- Thermic Fluid heating up to 300°C
- Steam up to 10 bar pressure
- Hot water
- Cooling water
- Chilled water
- Brine down to -20°C
- Vacuum down to 0.001 mbar

## **Analytical Laboratory**

Apart from wet chemistry and gravimetric methods, GC and HPLC are available to test the samples during the trials for their fine-tuning.

## ■ Commissioning & Start-up.

Expertise in onshore and offshore projects to ensure safe plant delivery, covering pre-commissioning, start-up, and operational readiness.



Seamless  
integration  
from construction  
to handover.

Pre-commissioning  
preparation enhanced  
by 3D modeling.



Comprehensive  
control of the  
productive chain.

Smooth, safe  
start-up minimizing  
risks of unplanned  
shutdowns.



Specialized training in  
plant maintenance,  
process analysis,  
safety, environmental  
protection.

Operator training  
programs to enhance  
operational skills and  
ensure project success.





# PROJECT MANAGEMENT



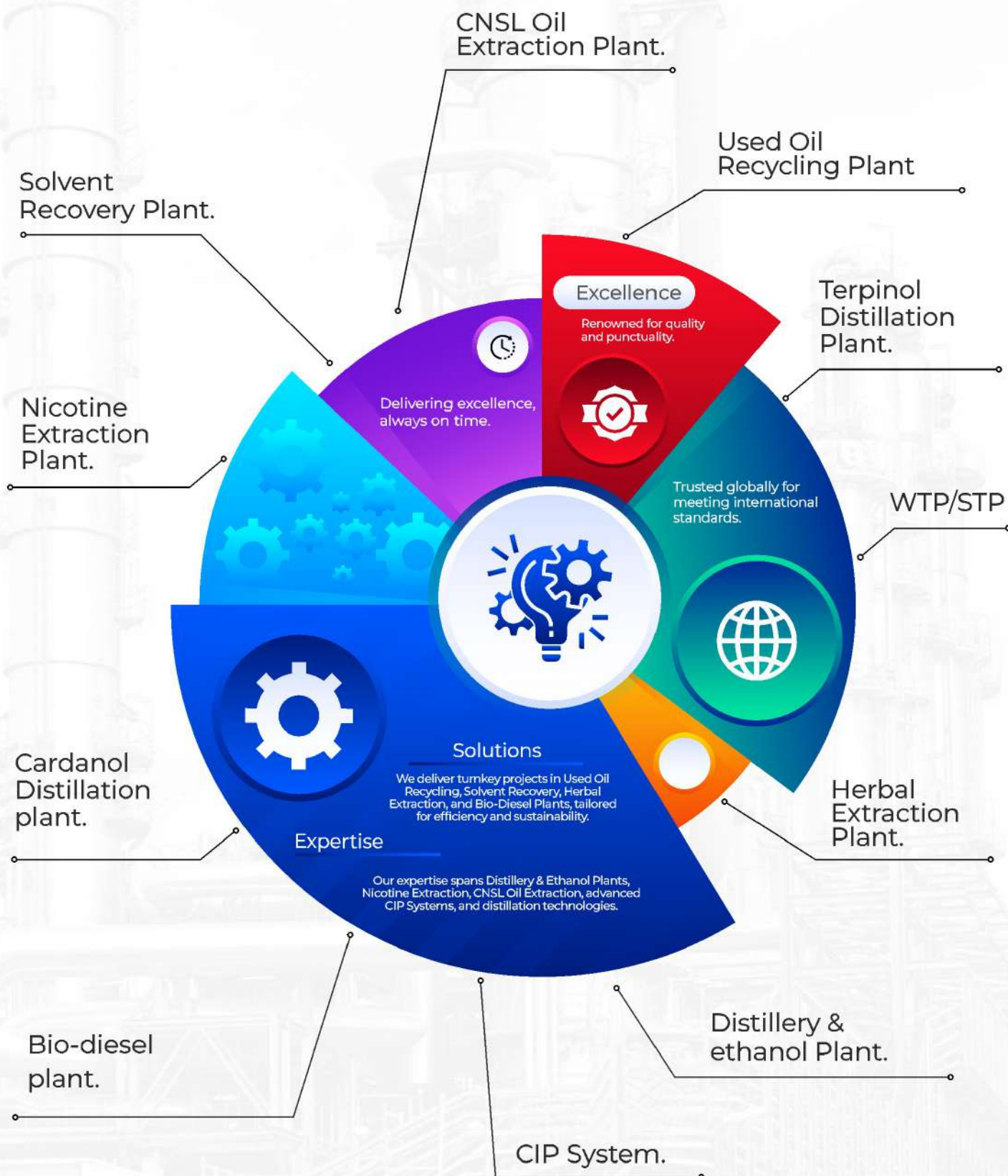
We provide comprehensive EPCM/PMC and construction supervision services, managing projects on behalf of clients from FEED to successful delivery. Our expertise includes engaging contractors and sub-contractors to align with project objectives, offering construction management, procurement, cost control, and risk management solutions. We assist owners in project execution, engineering reviews, constructability assessments, and supervision of site construction and commissioning.

Our teams consist of experienced professionals skilled in managing large oil and gas contracts. By fostering collaboration and leveraging practical expertise, we ensure efficient project execution while helping clients control costs and achieve their investment goals.



**ZERO COMPROMISE WITH QUALITY  
PRODUCT AND TECHNOLOGY**

# Turnkey Projects





# Industry we serve/ Services.



**Oil & gas Refining.**



**Chemical**



**Alcohol & distillery**



**Pharmaceutical**



**Aromatics**



**Hydrocarbon & petrochemical**



**Food & dairy industry.**



**API Bulk Drug  
& Intermediate**



**WTP/STP**



**Fertilizers& Chemicals.**



**Paint Dye**



**Mineral & mining**



## Our Trusted Clients



**GHARDA PLASTICS**

A BUSINESS DIVISION OF GHARDA CHEMICALS LIMITED

**SUDARSHAN**



**FABRI - TEK ENGINEERS**

An ISO 9001 : 2008 Certified Company

**REDA**



**OPT**

**NILESH ENGINEERS**

**RELIABLE**

**PRECI FORGE GEARS**

**MUBEA AUTOMOTIVE  
INDIA PVT. LTD**

**Concord Oil &  
Gas Equipment**

**Motherson Automotive  
Tech. Engineering**





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