

Detailedge Engineering Solutions

**Innovative Engineering Solutions for
Oil, Gas & Petrochemical Industries**

Delivering Excellence in FEED, Design & Detailed
Engineering Services Worldwide



Global Reach



Precision Engineering



Oil & Gas Specialists



DETAIL EDGE

INFINITE SOLUTIONS, POWERED BY DEDICATION



Your Global Engineering Partner

Specialized consultancy delivering comprehensive solutions from FEED to detailed engineering.



Oil & Gas

Offshore platforms, terminals, tank farms, pipelines



Power Generation

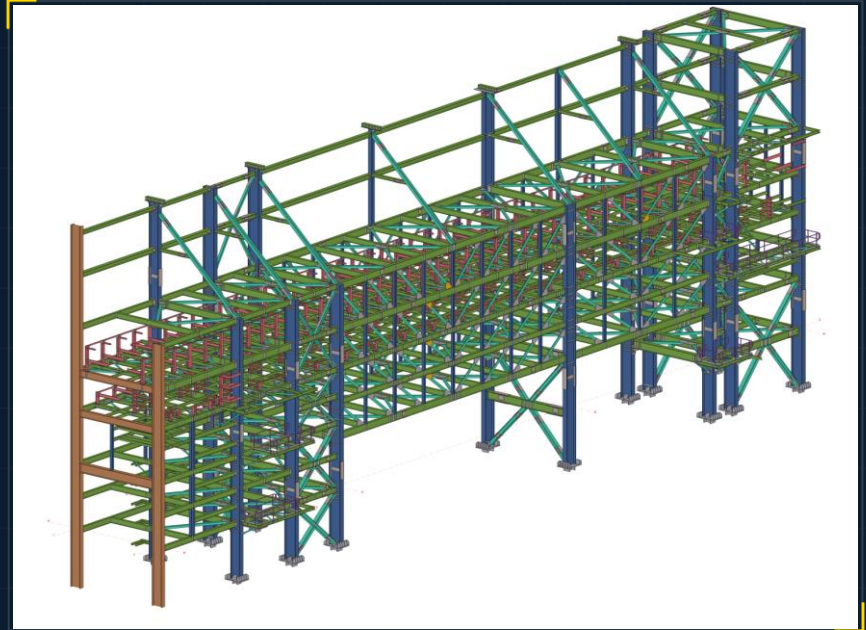
Power plant facilities and energy infrastructure



Petrochemical

Processing plants, refineries, chemical facilities

"Ensuring efficiency, safety, and sustainability in every project through advanced engineering methodologies."



Comprehensive Engineering Services

DISCIPLINE: MULTI-DISCIPLINARY



Civil & Structural

- > Structural Design
- > Structural Detailing (Tekla Structures)
- > Jacket&Topsides, modules, skids, piperacks & etc



Piping

- > 3D piping layouts & routing
- > Isometric drawings & spools
- > Stress analysis (CAESAR II)



Mechanical

- > Equipment design & selection
- > Pressure vessel & Storage tank design
- > Stress analysis & fabrication support



Instrumentation

- > Datasheets & specifications
- > Hook-up drawings & loop diagrams
- > Control system design



Process

- > PFDs & P&IDs
- > Process optimization studies
- > Heat & material balance



Fire Protection

- > Sprinkler system design
- > Hydrant & deluge layouts
- > Fire water network calculations



Advanced Software Capabilities

Leveraging Industry-Leading Tools for Precision & Efficiency

⚙️ Piping & Mechanical Design

● Smart Plant 3D

● AutoCAD 2018

● PV Elite

● MicroStation

🏗️ Civil & Structural Engineering

● STAAD Pro

● Tekla Structures

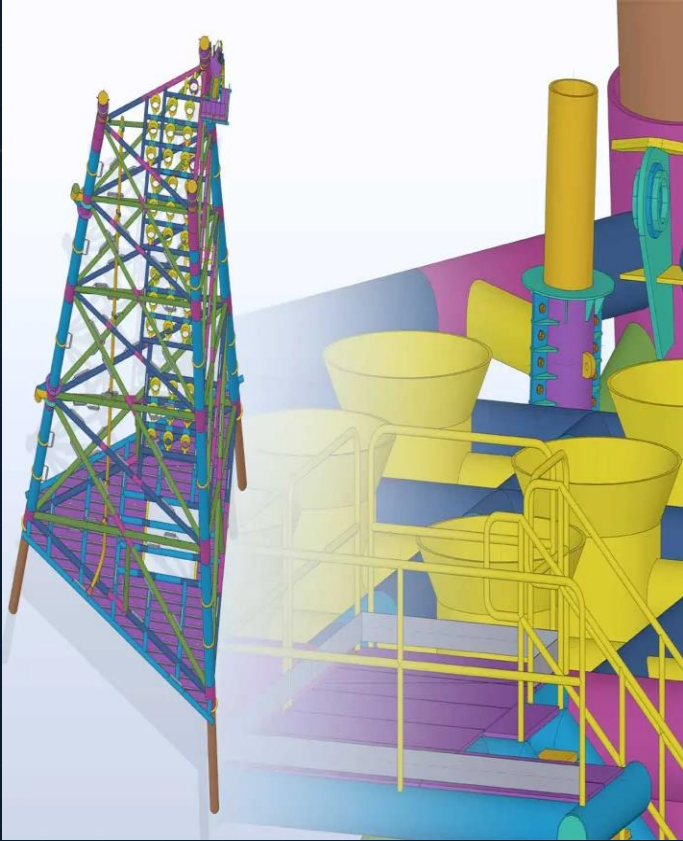
● Mat 3D

● AutoCAD

📈 Analysis & Simulation

● CAESAR II (Stress Analysis)

● Finite Element Analysis (FEA)



Major Projects Portfolio

CLIENTS: ADNOC | IOCL | TOYO

DAS Island - ADNOC

Replacement of 30-inch crude oil header & flare line.

Scope: Pipe rack foundation, 400T trestle support, fabrication drawings.

STAAD Pro, Tekla, S3D

Client: ADNOC

Zirku Terminal - ADNOC

Plant FEED Engineering & Revamping IA Line for entire terminal.

Comprehensive FEED engineering services.

Smart Plant 3D

Consultant: EIL Abu Dhabi

IOCL Paradeep Jetty

Ethylene Glycol Project: New pig receiver & launcher facilities.

Critical infrastructure for product transfer operations.

Smart Plant 3D

Consultant: Toyo Mumbai

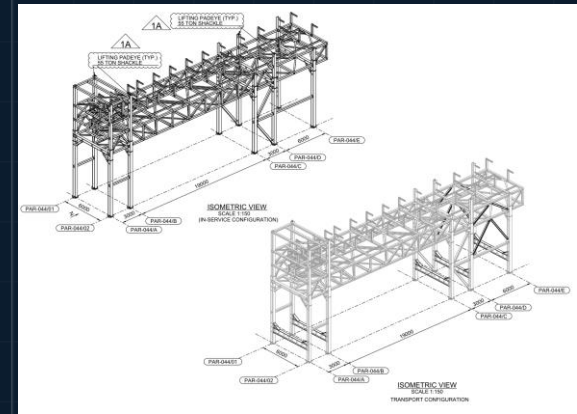
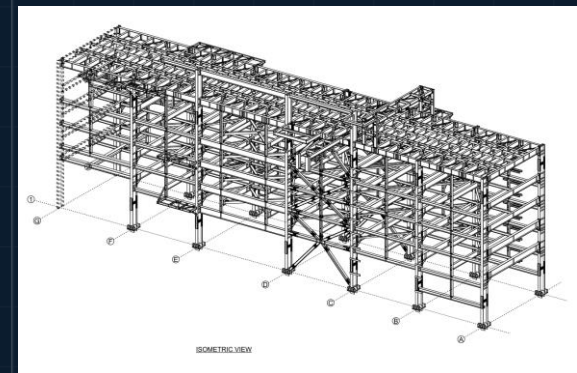
Impulse Offshore Platform

Revamping Instrument Air (IA) Line on offshore production platform.

Detailed engineering and construction support.

Smart Plant 3D

Client: ADNOC Abu Dhabi



Tank Farm & Terminal Expertise

SPECIALIZED STORAGE INFRASTRUCTURE ENGINEERING

Indian Oil Guntakal POL Terminals

- 1,500 tons of structural fabrication drawings
- Vertical & horizontal storage tanks (up to 30m dia)
- Complete isometric drawings for wagon loading & pump houses

Oil Terminal and Jetty in South KAZ Port, Basra, Iraq

- API 650 compliant tank design for 31 storage tanks
- Fuel Oil, Crude oil, Bitumen Storage Tanks)
- Project management untill commissioning

HPCL Composite Works

- Fire water storage tank design (API 650)
- Hook-up drawings & fire water network design
- Safety system compliance

Additional Terminal Projects

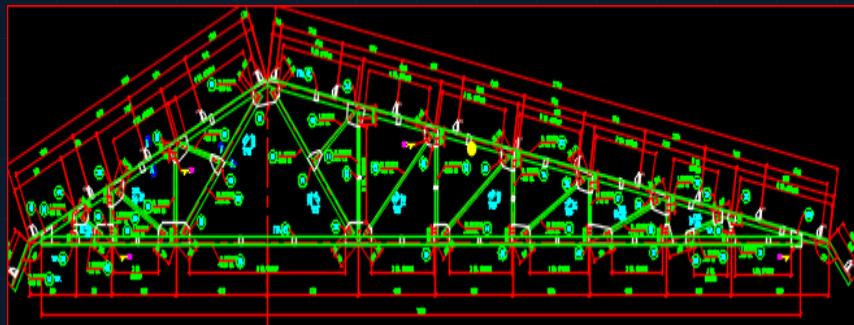
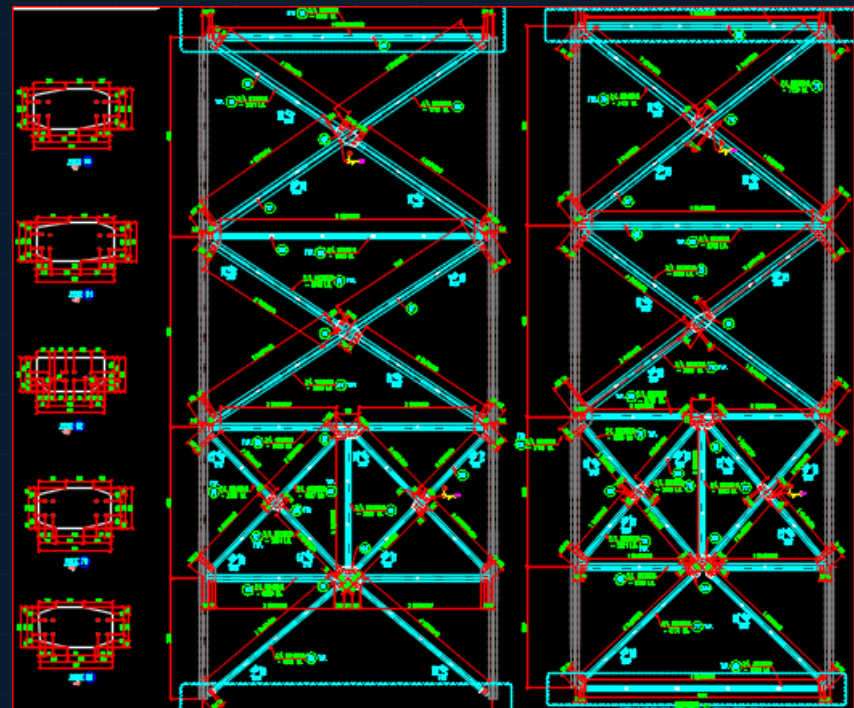
BPCL Kerala Tank Farm

IOCL Irimpanam

ONGC Kakinada

IOCL Trichy

IOCL Kanpur





Featured Project

SASOL USA

CLIENT: L&T HYDROCARBON ENGINEERING

- Smart Plant 3D (SP3D) Modeling
- Isometric Checking & Verification
- International Quality Standards

International Collaborations

STRATEGIC PARTNERSHIPS & GLOBAL CLIENTS

Key Consultant Partnerships

Engineers India Limited (EIL)

Toyo Engineering

Worley Parsons

PDIL (Projects & Dev. India)

Adyard Abudhabi LLC

Danway Electromechanical LLC

Major Client Base

ADNOC

IOCL

BPCL

HPCL

ONGC

KNPC



FABRICATION EXPERTISE HIGHLIGHT

Indigo Paints Project: 3,800 Tons Fabrication Drawings (Tekla Structures)

Ongoing Projects

PORTFOLIO STATUS: ACTIVE EXECUTION

Client: M/s. ION EXCHANGE

IN PROGRESS

▶ Sea Water Sulphate Removal Pkg (ADNOC)

Engineering coordination for modular offshore water treatment skids (Pre-treatment, UF, NF).

▶ ACF-MB & DM Package (Tecnimont - ADNOC)

Design of activated carbon, multimedia, and demineralization water treatment systems.

▶ DEOIL Package (Tecnimont - ADNOC)

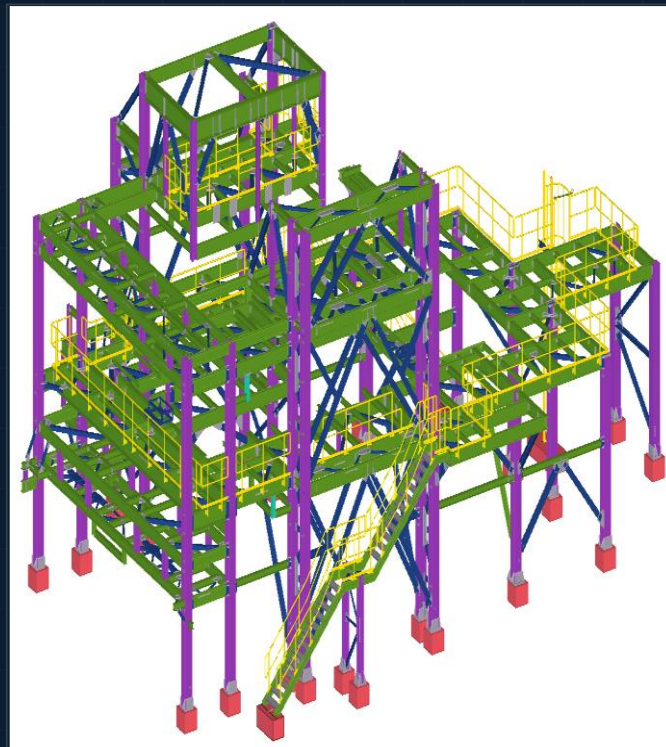
Engineering for produced water deoiling systems, hydrocyclones, and induced gas flotation units.

Client: KNPC (Contractor: XPO)

IN PROGRESS

▶ Boiler Blowdown Drain Lines

Residual engineering work for boiler blowdown drain lines to AGRP tank new facility. Multi-discipline engineering execution.



Key Strengths & Advantages

WHY CHOOSE DETAILEDGE ENGINEERING SOLUTIONS



Proven Track Record

Extensive experience with industry leaders like ADNOC, IOCL, BPCL, HPCL, and ONGC. Successfully delivered 50+ major projects.



Technical Excellence

Deep expertise in API 650 Tank Design, Tekla Structures and SP3D Modeling. Handling large-scale fabrication up to 3,800 tons.

API 650 EXPERTS



Strategic Partnerships

Strong collaboration with leading global consultants including EIL, Toyo Engineering, Worley Parsons, and PDIL.



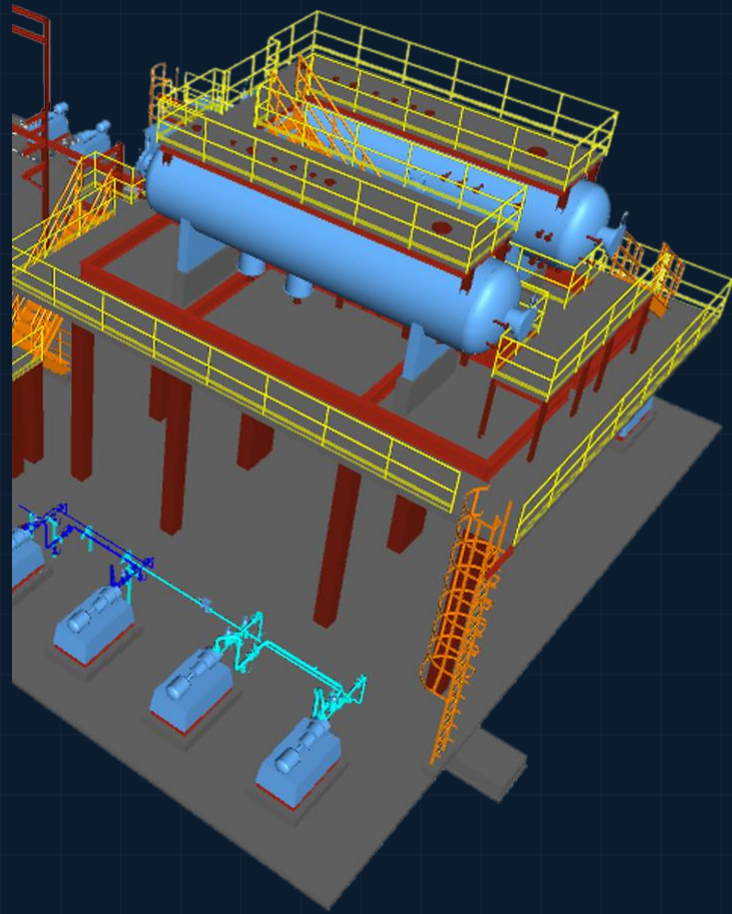
Quality & Delivery

Rigorous adherence to international codes (ASME, AISC, ISO). Commitment to on-time delivery and error-free constructible designs.



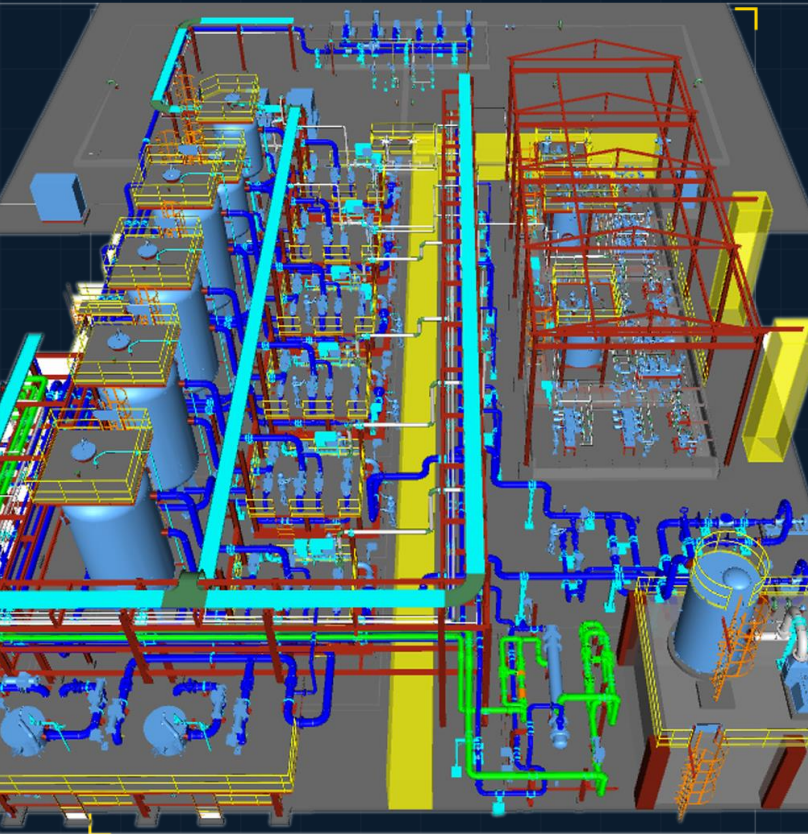
Scalability & Flexibility

Capability to handle projects from FEED to detailed engineering. Rapid mobilization and resource scaling for urgent requirements.



Commitment to Excellence

DRIVING STANDARDS THROUGH INNOVATION & QUALITY



Engineering Excellence

Maintaining highest standards through continuous professional development and adherence to international codes.



Safety & Sustainability

Integrating HSE regulations from design stage. Prioritizing operational safety and environmental protection.



Client-Centric Approach

Working as an extension of client teams to ensure alignment with project goals and commercial expectations.



Innovation & Technology

Investing in advanced software (SP3D, FEA) and process improvements to deliver optimized solutions.



Quality Assurance

Comprehensive quality management systems and multi-level verification for error-free, constructible designs.

Industries & Future Vision

SECTOR FOCUS & STRATEGIC GROWTH

Current Industry Focus

Oil & Gas Sector

Upstream (Offshore/Onshore), Midstream (Terminals/Pipelines), Downstream (Refineries).



Power Generation

Conventional power plants, auxiliary systems, and energy infrastructure.



Petrochemical Industry

Chemical processing plants, specialty chemicals, product storage & handling.



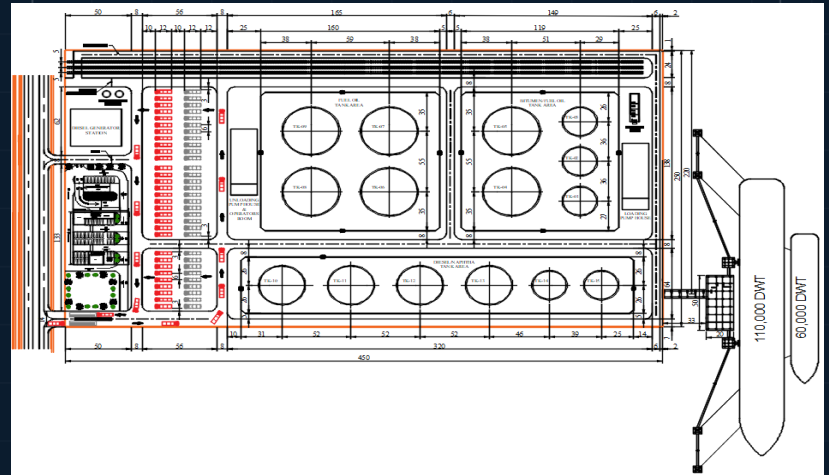
Future Growth Areas

→ LNG & Gas Processing

→ Renewable Energy Integration

→ Carbon Capture (CCS)

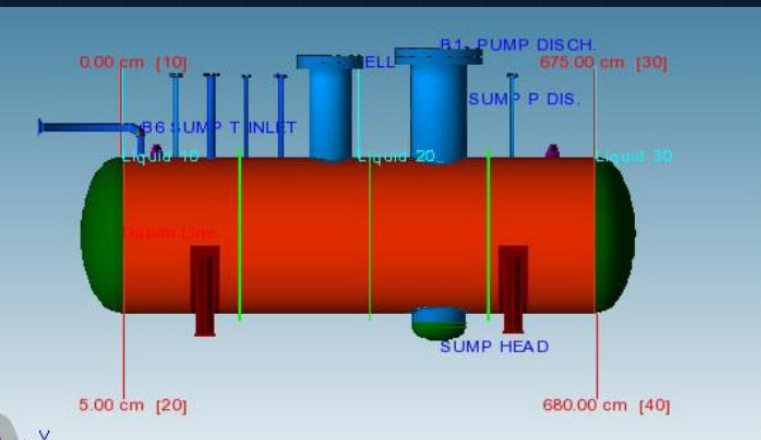
→ Green Hydrogen Facilities



Organizational Structure

ENGINEERING SERVICES TEAM HIERARCHY





Partner with DetailEdge

Let's Build the Future of Energy Infrastructure Together

Why Choose DetailEdge Engineering Solutions?

- ✓ Proven track record with industry leaders (ADNOC, IOCL)
- ✓ Advanced software capabilities & technical excellence
- ✓ Commitment to safety, quality, and on-time delivery



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OFFICES

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"Engineering Excellence. Global Reach. Trusted Partner."