



Exelus Engineering  
Pvt Ltd

Quality Leads!

# EXELUS ENGINEERING PVT LTD

Advanced Process & Water Engineering Solutions

Advanced Process Equipment  
ETP | ZLD | EPC Solutions

**Engineering the Future of Industrial Sustainability**



# About Exelus

Exelus Engineering Pvt. Ltd. is an engineering-driven organization delivering advanced process equipment and integrated water & wastewater treatment solutions for industrial applications.

## We specialize in:

- Designing
- Engineering
- Supplying
- Retrofitting
- Optimizing complex process systems

## With strong focus on:

- Performance
- Reliability
- Lifecycle efficiency



## Expertise Includes:

- Zero Liquid Discharge (ZLD) Plants
- Effluent Treatment Plants (ETP)
- Evaporation Systems & MVRE
- Reactors, Dryers, Crystallizers
- Pressure Vessels, Tanks
- Heat Transfer Equipment
- Digital Engineering + EPC Execution

Industries where compliance, efficiency, and uptime are critical.



## VISION

To be a globally respected engineering solutions provider delivering sustainable, efficient, and innovative industrial process technologies.

## MISSION

To engineer reliable, energy-efficient, and customized solutions that create long-term value for our clients through technical excellence and lifecycle thinking.

### Core Values

- Engineering Integrity
- Customer-Centric Execution
- Continuous Innovation
- Sustainability Focus
- Quality Without Compromise



# CORE DOMAINS

## PROCESS & SYSTEMS

- Zero Liquid Discharge (ZLD) Systems
- Effluent Treatment Plants (ETP)
- Evaporation & MVRE Systems
- Crystallizers & Dryers

## EQUIPMENT PORTFOLIO

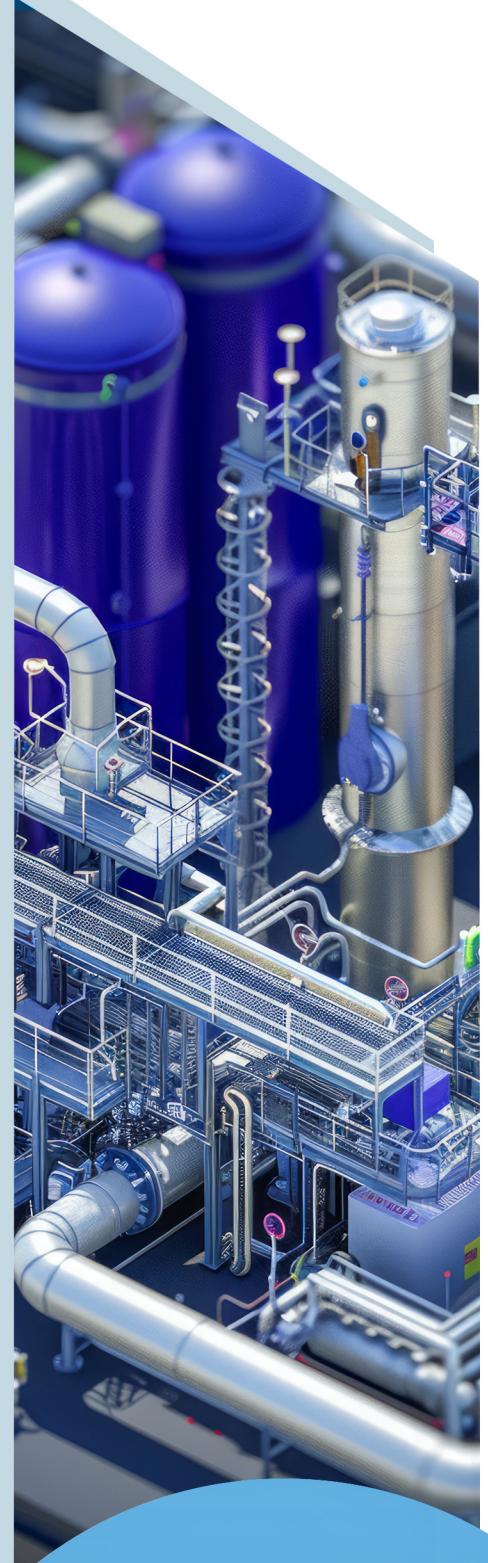
- Reactors & Pressure Vessels
  - Tanks & Process Vessels
  - Heat Exchangers & Condensers
  - Modular Skids & Packages
- Supply and installation of MS structures and PEB works.

## ENGINEERING & DIGITAL DESIGN

- Process Design (PFD / P&ID)
- 3D Plant Modelling (Tekla)
- Structural Analysis (STAAD)
- Automation & Controls

## OPTIMIZATION & SUPPORT

- Plant Audit & Performance Review
- Retrofit / Revamp / Expansion
- OPEX Reduction Solutions
- Spares & Service Support



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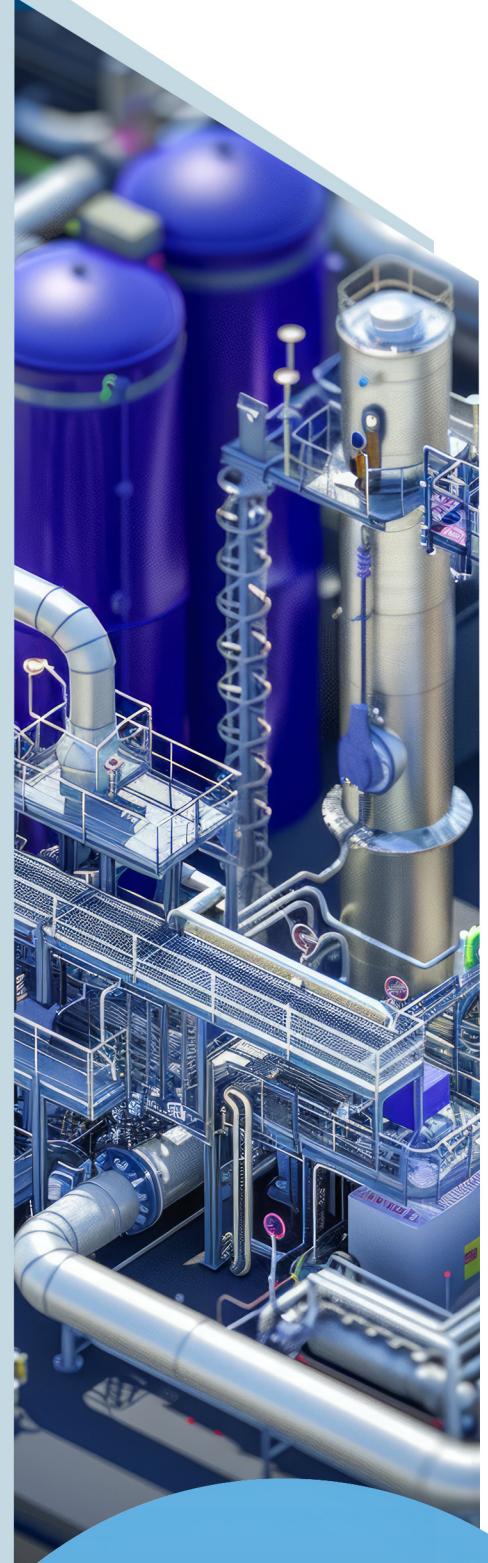
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# ENGINEERING & DESIGN EXPERTISE



- Process simulation, mass & energy balance
- Hydraulic and thermal design
- PFD and P&ID development
- Mechanical design (ASME / TEMA / IS)
- Structural engineering using STAAD Pro
- Tekla fabrication models & shop drawings
- Skid-mounted modular plant engineering
- BOQ, BOM, O&M documentation
- FAT, SAT & commissioning support

# CHEMICAL REACTORS

## Overview

Exelus designs batch and continuous reactors for chemical, pharma, API, and specialty applications.



### APPLICATIONS

- Specialty Chemicals
- APIs & Intermediates
- Resins & Polymers
- Fine & Agro Chemicals

### TYPICAL SPECIFICATIONS

Parameter	Range
Capacity	50 L – 300 KL
Pressure	Full Vacuum – 30 bar
Temperature	-20°C – 300°C

### DESIGN FEATURES

- Optimized agitation systems
- Jacketed / limpet / coil heat transfer
- Vacuum & pressure duties
- Precision nozzle orientation
- Mechanical seal options

### EVAPORATORS & MVRE SYSTEMS

- Falling Film
- Forced Circulation
- Rising Film
- Multi-Effect Evaporators (MEE)
- Mechanical Vapour Recompression (MVR)

### Advantages:

High efficiency • Anti-scaling • Low energy • Compact • Automated

### Dryers & Crystallizers

- Agitated Thin Film Dryer (ATFD)

### Key Features:

Moisture <5–10% • Continuous/Batch • Robust design • PLC automation

# Services & Optimization

## Plant Audit & Performance Improvement

- Bottleneck identification
- Capacity enhancement
- Efficiency improvement

## Retrofit & OPEX Reduction

- Brownfield expansion
- Steam & power optimization
- Redesign for new effluent

## Automation & Spares

- PLC/SCADA upgrades
- Instrumentation modernization
- Long-term service support



## Project Execution Methodology



## Industries Served

Chemicals • Pharma • Food • Textile • Power • Mining • CETP Projects

## Quality & Standards

ASME • TEMA • IS • Traceability • Inspection & Testing

## Contact:

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