



Chemechtech

CHEMECHTECH ENGINEERING SERVICES

Engineering Consultant

**Consulting, Detail
Engineering, Designing
For Chemical Plants &
Process Industries**



Our Mission

To provide engineering services within schedule & cost, that redefines the standard

Our Vision

To become single point contact for our clients for all its engineering requirements.

We strive to achieve our vision through

1. Ethical code of Business & Fulfillment of commitments
2. Creating Leadership through result oriented Culture.
3. Focus on client to create win-win situation for all its stakeholders

Chemechtech is multi-disciplinary Engineering Services Provider Company
Chemechtech main Business units are

1. Design, Detailed Engineering
2. Project Management Services
3. Manpower Outsourcing/Resourcing
4. Skills Enhancement through Training

The Company believes in Creating value for its clients through commitment to Quality Deliverables, Project Execution on schedule and cost - Effectiveness

Services

- Engineering Services
- Manpower Outsourcing
- Project Management Services
- Training & skill Enhancement

ENGINEERING SERVICES

- ☞ Feasibility Report
- ☞ Project Management Services
- ☞ Basic Engineering
- ☞ Detailed Engineering involving all disciplines
- ☞ 2D Drawings Conversion / 3D Modeling
- ☞ Energy Audits
- ☞ Plant Troubleshooting
- ☞ As Built Services

FEASIBILITYREPORT

- ☞ Improvement/redesign or development of existing products, services or processes
- ☞ The viability of extending or expanding company facilities to meet increased operational capacity needs.
- ☞ Identifying the Technologies available
- ☞ Raw material and utilities required
- ☞ Project costs&schedule, Fixed and Operating costs
- ☞ Power Consumption, MarketSurvey,& Return on Investment
- ☞ Detailed Project Report and Bankable Report for Finance

PROJECT MANAGEMENT SERVICES

- ☞ Preparation of Project Schedule
- ☞ Planning & Resources Allocation
- ☞ Project Cost Control / Budget Control
- ☞ Quality Assurance Inspection & Expediting
- ☞ Co-ordination& Communication

BASIC ENGINEERING PACKAGE

- ☞ General Design Basis & Specification for Major Equipment.
- ☞ Process flow sheets, Heat & Material Balance
- ☞ Preliminary PFD & P&ID Development.
- ☞ Preliminary Plot Plans, Equipment Layout& Civil information drawings.

Electrical & Instrumentation, Layout, Specification & Summaries

MULTI-DISCIPLINE DETAIL ENGINEERING

- ☞ Process Engineering.
- ☞ Instrumentation Engineering.
- ☞ Electrical Engineering
- ☞ Mechanical Engineering.
- ☞ Piping Engineering.
- ☞ Civil &Structure Engineering.

PROCESS ENGINEERING

- ☞ Process simulation studies
- ☞ Process Design of Columns, Exchanger, Separators, KO Drums etc.
- ☞ Design of Fired Heaters & Waste Heat Boilers.
- ☞ HAZOP & Safety Studies, Commissioning & Plant Troubleshooting.
- ☞ Preparation of P & IDs, Equipment Process Datasheet by using Intelligent P & ID software.
- ☞ Utility & System Packages.

INSTRUMENTATION ENGINEERING

- ☞ Preparation of Control Philosophy
- ☞ Preparation of Instrument Index and Instrument Data Sheets
- ☞ Preparation of Interlock Logic Diagrams, Instrument Index by using SPI in tools Software.
- ☞ Preparation of Junction Box Termination Drawings, Instrument Hook up Drawing, Wiring Diagrams Cable Schedule using SPI in tools Software.
- ☞ Preparation of Cable Tray Layouts Design of Plant.

ELECTRICAL ENGINEERING

- ☞ Preparation of Electrical Single line diagram by using SPEL software.
- ☞ Selection of HV/LV Switchgear, Motor Control Centers.
- ☞ Layout for Switchyard / Transformer layouts, Switchgear / MCC Room layout, Battery room layouts. Cable tray / Trench layouts, Cable routing layouts

MECHANICAL ENGINEERING

- ☞ Design of Complete range of Process Equipment's (Tank, Vessel, Reactor) using PV Elite
- ☞ Mechanical Design & Detailed Engineering using the International Codes& Standard
E.g. ASME Sec. VIII Div. 1 & 2, API 650 etc.
- ☞ Preparation of Technical Bid for the Projects.
- ☞ Development of Fabrication Drawings.

PIPING ENGINEERING

- ☞ Plot plan Development & Conceptual Pipe Routing.
- ☞ Piping Material Selection and Specification
- ☞ Static & Dynamic Stress Analysis.
- ☞ Designing Support specifications & Drawing.
- ☞ Plant 3-D Modeling and clash detection
- ☞ Extraction of Isometric from 3-D Model with BOM/MTO.

CIVIL & STRUCTURE ENGINEERING

- ☞ Preparation Detailed Foundation Drawings for Equipment's.
- ☞ Design Calculations and preparation of detailed structural Drawings, fabrication drawings and BOM.
- ☞ Engineering of Skids and Modular Structures & MTO Extraction.
- ☞ Steel Structural Detailed Drawings.
- ☞ Assistance through associates

ENERGY AUDIT

- ☞ Improved contribution to environmental protection & sustainability
- ☞ Energy savings through Best energy management practices
- ☞ Assistance through Associates.

PLANT TROUBLE SHOOTING

- ☞ Turnarounds and Plant Modification.
- ☞ Process Optimizations for increased Output & Quality.
- ☞ Expert professionals to take care of each problem

DRAFTING SERVICES

- ☞ Create drawings from mark-ups, sketches
- ☞ Create new drawing as per specifications and standards
- ☞ Deputation of Professional AutoCAD draughtsman, Sr. designers for Carrying out above work at Client site.

AS BUILT DOCUMENTATION

- ☞ Preparation of all Documentation.
- ☞ Preparation of Plot Plan, Equipment Layout, Piping GA as Per the Site Mark –Up.
- ☞ Preparation of P & ID.

MANPOWER OUTSOURCING

- ✓ We Provide Skilled & Technical Manpower for speedy Execution of Project. We have pool of Skilled & Experienced Engineers & Designers from all Disciplines for short & long Term Deputation or for full-time Employment.
- ✓ We provide man-power to various EPCs, Engineering Consultancy Firms & Chemical Process Plants
- ✓ Depending on Client Requirements, we also undertake Projects at Client Location/Site. This helps clients to retain his valuable data within its premises & effectively monitor the schedule With Proper Co-ordination within Project Teams.
- ✓ Our Services cater to Deputation for following activities
 - ☞ Design & Detailed Engg. for all the Discipline of Engineering
 - ☞ 2d Drafting (AutoCAD/Micro station/Smart sketch).
 - ☞ 3d Designers & Modelers(PDS/PDMS/CAD works/Auto Plant)
 - ☞ Project Co-Ordination/ Management.
 - ☞ Procurement/Inspection/Expediting
 - ☞ Erection / Construction Supervision
 - ☞ Commissioning Assistance

TRAINING

- ✓ Our aim is to develop the competency of engineering professionals in order to meet fast growing demand of engineering sector in India & Worldwide.
- ✓ We undertake Individual as well as corporate Training & Skill Development of Professional for their career benefit & long term employment.

TRAINING COURSES

- ☞ Chemical Process Design Engineering (CDPE)
- ☞ Piping Design Engineering (PDE)
- ☞ Instrument Design Engineering (IDE)
- ☞ Electrical Design Engineering (EDE)
- ☞ Process Equipment Design Engineering (PEDE)
- ☞ Software tools Training for Cooperate as well as Individuals (PDMS, PDS, CASER II, SP P& ID, SPI, SP3D, and SP EL PVEliteetc.)

<p>Process Engineering</p> <ul style="list-style-type: none">➤ HYSYS Process Simulation➤ Pipe Net Hydraulic Analysis➤ Smart Plant P & ID Generation	<p>Mechanical/Piping Engineering</p> <ul style="list-style-type: none">➤ PDMS/PDS Plant 3D Modeling➤ CADWOX➤ Isogen Piping Isometric➤ Caesar II Stress Analysis➤ PV Elite Pressure Vessel Design
<p>Instrumentation Engineering</p> <ul style="list-style-type: none">➤ IN TOOLS Instrumentation Spec	<p>Civil &Structural Engineering</p> <ul style="list-style-type: none">➤ STADD Structural Analysis➤ X-Steel Structural Detailing
<p>Electrical Engineering</p> <ul style="list-style-type: none">➤ SPEL Smart Plant Electrical➤ ETAP Electrical System Design	<p>Project Management</p> <ul style="list-style-type: none">➤ PrimaveraProject Planning & Control➤ MS Project



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