

ICONS... *Engineering with Excellence*



ICONS

ENGINEERING SERVICES

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ABOUT US

A group of professionals imbued with the power of knowledge thru many years of experience in various industry sectors, coupled with international exposure, joined together to form **ICONS** (Industrial Consulting, Orientation Needs and Services) to provide the services to meet the Industry needs.

Diversified range of Engineering skills enabling it to offer its clients a singular source of responsibility for large & complicated Industrial Projects at competitive cost & within time.

Strategic outsourcing of various services has become a reality of competitive advantage for industries to reduce costs while getting expertise services. We at **ICONS** offer our services in Engineering, Quantity Surveying, Estimation, Project Management, Procurement Services and Training through our Consulting, Services and Support solutions.

ICONS with its broad knowledge base and customer oriented attitude offers the services to exceed the Customer expectations. We strive to provide services of world class quality ensuring the Safety standards always adhered in the design, procurement and implementation phase.

INDUSTRY is ever growing creating the demand for human resources from time to time so is the case in the field of Design. We at **ICONS** provide the necessary orientation to the fresh and budding engineers in Piping and Pressure Vessels which occupies a major chunk of manpower especially in Design and EPC phases of Projects.

ICONS recognize the world as a Global Village and needs a close association and exchange of Business opportunities. More so with varied business lines and industry sectors, such as Oil & Gas, (including Onshore & Offshore) Petrochemicals, Fertilizers, Power, etc. each requiring unique nature of products and services. We at **ICONS** would serve to bridge the gaps to ensure a seamless business transaction in the field of Materials and Services to be shared across the Globe by assisting the manufacturers and customers to be communicated for the purpose of quality services.



OVERVIEW OF SERVICES

ICONS Engineering Services is well equipped to meet the Detailed Engineering Services needs for its Clients adhering to Process & Safety requirements.

- Execution of Engineering Projects
- Sourcing for Procurement of Materials
- Designing of Piping, Process Equipment, Electrical, Instrumentation and Civil discipline needs as per national and international codes / standards.
- Liaison of Fabrication, Construction & Erection, Inspection & Testing.
- Design of water spray system for spherical storage vessels, storage tanks, storage vessels, pressure vessels etc., as per TAC rules.
- Preparation of detailed fabrication drawings including assembly, subassembly, part drawings, piping layouts, bill of materials, dispatch documents etc.
- Digitization of Engineering Drawings in AutoCAD.
- Preparation of drawings in Microstation, AutoCAD from old / soiled drawings.
- Pre-tendering services will be provided like preliminary design, comments and material estimation for process plant equipments, piping, civil foundations and structures for the purpose of bidding.
- Co-ordination for obtaining approvals from Consultancies, Inspection Agencies and other Statutory Authorities.
- Participation when required during technical discussions with Customer, Consultancies, Inspection Agencies and Statutory Agencies.
- Providing technical assistance at site.
- Training of budding Engineers to orient to Industry needs



PIPING DESIGN

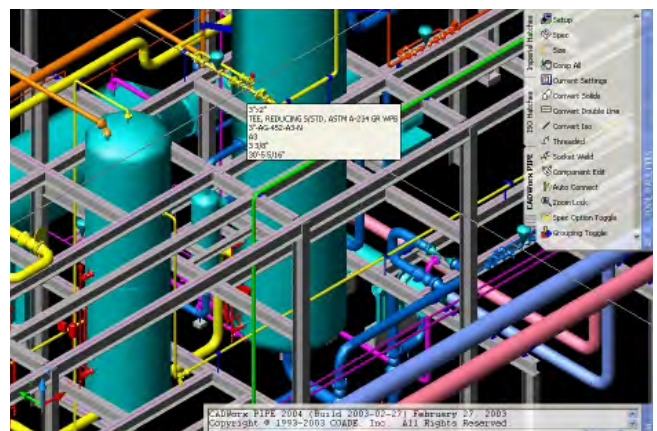
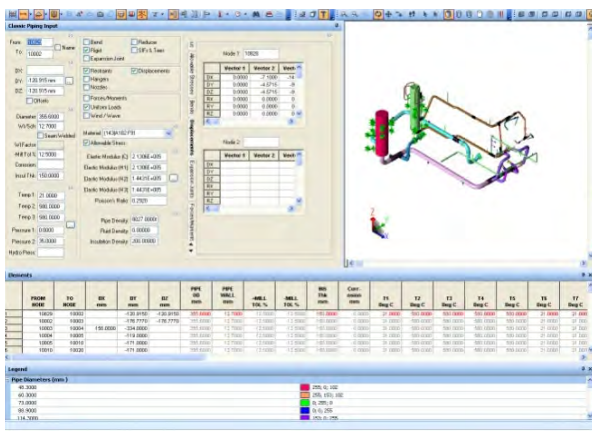
We undertake Design of Piping Systems for Oil & Gas, Petrochemical, Fertilizer, Chemicals and Power Plant designed to various codes / standards.

The services include :

- Review P&IDs
- Piping Material specifications
- Project Specifications and Procedures
- Plot Plans
- General Layouts
- Equipment Layouts
- Piping Layouts
- Supports Design and Sketches
- Isometrics and MTO
- Piping Stress Analysis using CAESAR II
- Specialty Item Data sheets
- Material Requisitions
- Technical Bid Evaluations and Recommendations
- Training of budding Engineers to orient to Industry needs

Training in Piping Design
Piping & Layout Concepts
Stress Analysis

For details visit : www.iconsengg.com/training/



STATIC EQUIPMENT

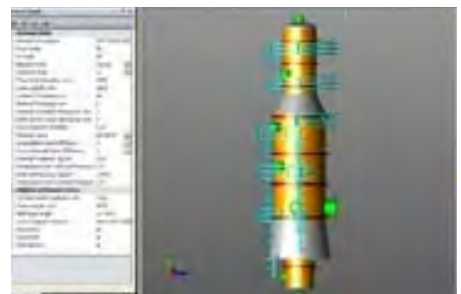
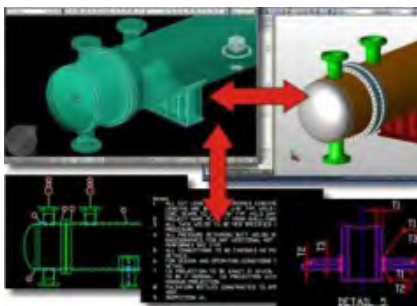
We undertake complete Mechanical design of process equipments like storage vessels, spherical storage vessels, pressure vessels, columns, tall towers, multilayer vessels, transportation tanks mounted on road/rail chassis, de-aerators, feed water heaters, heat exchangers, air fin coolers, boilers, fired heaters, large storage single wall fixed / floating roof tanks, large storage double wall fixed roof tanks etc., for low, moderate and high temperature / pressure service designed to various codes / standards such as ASME Sec.VIII Div.1 and Div.2, (U and U2), PD:5500, IS:2825, TEMA, IBR, API:620, API:650 etc.

Deliverables Include:

- Data Sheets for Vessels, Tanks, Reactors, Heat Exchangers, etc.
- Project Specifications and Procedures
- Fabrication Drawings
- Mechanical Design Calculations
- Heat Exchanger Design Calculations
- Vendor Prints review
- Material Requisitions
- Technical Bid Evaluations and Recommendations

Training in Static Equipment Design
Design of Pressure Vessels and Columns
Design of Heat Exchangers

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INSTRUMENTATION

- Loop Diagrams
- Generating Narratives
- Cause and Effect Diagrams
- Instrument Cable Schedules
- Cable and Tray layout Drawings
- Wiring and Interconnection drawings
- Other Detailed Engineering Requirements

ELECTRICAL

- LT/HT Motor Drives
- Switch Gear Units
- UPS/MCC/PCC
- HVAC Requirements
- Cable Schedules
- Cable, Earthing and Tray layouts
- Wiring Diagrams
- Other Detailed Engineering Requirements



CIVIL & STRUCTURAL

- Analysis and Design of Steel & Structural elements (High Rise Steel Structural Buildings)
- Industrial foundations such as Equipment, Pipe Rack, Tanks, Etc.
- Design of Other detailed Engineering requirements

PROCUREMENT SERVICES

- Preparing Material Requisitions with Specifications
- Technical Bid Evaluations and recommendations
- We assist in possible collaborations to expand business in Middle East
- Vendor prints checking
- Design coordination during shop fabrications

PROJECT MANAGEMENT SERVICES

- Assisting in Project Management functions
- Planning and interface coordination and other Client support services

INDEPENDENT COST ENGINEERING CONSULTANCY

Involving Mechanical, Civil, Electrical, Instrumentation Projects for Oil & Gas Industries / Refineries / Pipelines, Chemical & Petrochemical industries, Aluminum Process Industries, Power & Desalination Plants, LNG / Cement / Polyester Plants, High Rise Buildings etc.;

- Quantity Surveying, DBSP Estimates, FEED Estimates, Budget / Conceptual Estimates, Detailed Construction Estimates, Claims & Back charges, Tendering & Preparation of Tender Submission Documents



TRAINING

PIPING & LAYOUT CONCEPTS

Piping Fundamentals, Piping Codes and standards. Piping Documents, Piping Components, Piping Materials, Pipe sizing and Design, Piping specifications, Plot Plan, Equipment and Piping Layouts, Stress Analysis Basics, Fabrication and installation of piping, Bolted joints, Selection and Application of Valves

STRESS ANALYSIS

Introduction, Design Concepts, Codes, Standards and Specifications, Introduction to P&IDs, Data Sheets Layouts and Isometrics, Piping Items, Concepts on Materials, Pipe supports Design, Introduction to CAESAR II, Practical Analysis on CAESAR II

OTHER TRAINING Courses on need based from time to time will be announced.

