



ImageGrafix Engineering Services Division provides customization and technical services for Plant Design and CAD/CAM/CAE systems as well as detailed engineering and intelligent 3D plant modeling and plant data management services. These services are handled by our head office in Dubai and by ImageGrafix Engineering Services Pvt Ltd (IGES) in Chennai, India.

The success and profitability of an engineering company largely depends on its ability to change itself to meet the ever changing market requirements. The most important aspect in a project environment will be the quality of work and strict delivery schedules. ImageGrafix understands your project requirements and can assist you in meeting your project deadlines through its Engineering Services Division.

Outsource to IMPROVE services, REDUCE costs and IMPLEMENT best practices

The benefits of outsourcing are many. Public and private organizations increasingly turn to outsourcing to cope with increased demands on staff and expanding services.

By outsourcing to ImageGrafix, you can:

- ▣ Benefit from technological skills and expertise to increase efficiency
- ▣ reduce costs by lowering processing time and expense, eliminating capital investment
- ▣ improve the way your organization deals with the peaks and valleys of project requirements
- ▣ enhance your focus on core engineering activities

With its leadership position in providing IT solutions to Oil and Gas industries in the region for over a decade, ImageGrafix Software FZCO's Engineering Services Division provides the following Services:

▣ CUSTOMIZATION SERVICES

Plant Design solutions such as CADWorx, PDS, PDMS, ISOGEN, SPOOLGEN, I-Sketch include standard built-in libraries of commonly used plant components and standards. However, it does not and cannot cover all standards. ImageGrafix provides customization services to meet specific project standards to make use of the software to its maximum.

▣ PLANT DESIGN STAFF OUTSOURCING

ImageGrafix understands your short duration project requirements and can help you outsource your software and human resource requirements such as Piping Modelers and Designers, Stress Engineers, Equipment Designers, Process Engineers and Draftsmen. The service can be performed at your premises as "On-Site" services or can be performed "Off-Site" at ImageGrafix Engineering Services operations in Chennai, India.

▣ PIPING DESIGN & ANALYSIS SERVICES

ImageGrafix performs Piping Design and Analysis services for its clients. The piping systems are analyzed for various load cases using industry standard software such as CAESAR II and PIPENET. The deliverables of this service may include some or all of the following depending on the project requirement:

Detailed Stress reports with necessary Stress ISOs.

Support design and details

Thrust block design and calculation

Road Crossing, sleeve

Valve Pits details

Hydraulic calculation reports, and Force V/S Time at elbows

Pressure drop calculation and Pipe/Pump Sizing reports

Piping isometrics from existing piping layouts

▣ DETAIL ENGINEERING SERVICES

ImageGrafix provides detail engineering services on the following plant

disciplines:

PIPING

Service includes Piping design and detailed engineering services such as finalization of pipe routing, development of plot plan, key plan, isometrics, pipe support details, etc

ELECTRICAL & INSTRUMENTATION

Electrical & Instrumentation Engineering and detailing services is based on Equipment and electrical layouts and on instrument specifications, standards. The design is cross verified using instrument sizing and calculation software. The deliverables include Instrument index, Instrument datasheets, Loop diagrams, Hook up drawings, Schematic control diagrams, Cable schedule etc.

STRUCTURAL

Structural modeling and analysis for workshops, canopies, pipe racks, platforms etc are carried out to as per project standards set. The service also includes design calculation for the foundations of storage tanks, pressure vessels, flare stacks and pipe supports and preparation of detailed fabrication drawings as per international drawing standards.

▣ PRESSURE VESSEL & HEAT EXCHANGER DESIGN

The service includes analysis and design on most horizontal and vertical towers, vessel, storage tank and heat exchanger configurations to check or ensure compliance with ASME VIII, TEMA and API design codes. The service also includes preparation of detailed fabrication drawings for various vessels and exchangers.

▣ INTELLIGENT PLANT MODELING

This service covers 3D plant modeling services and detail engineering in all plant engineering disciplines such as Piping, Equipment, Structural, Civil, Instrumentation and HVAC. These services are aimed to help organizations who want to:

Develop 3D models to meet their customer requirements for "Virtual Project Creation" before construction at site for project whose drawings were already prepared on a 2D Platform.

Have limited resources to prepare 3D piping models while handling the detail engineering activity in-house.

▣ CAD/CAM/CAE System Services

ImageGrafix offers a full range of CAD/CAM/CAE services to help its customers make their product design process cost-effective, and to reduce the time and cost to bring the product to the market the services include:

PRODUCT DESIGN AND DETAILING

ENGINEERING ANALYSIS

MANUFACTURING

