



TATA CONSULTANCY SERVICES



## Process Plant Engineering Engineering & Industrial Services

### How we help our customers:

#### Design engineering and analysis improves gross margin and quality parameters for global equipment manufacturer:

A global Oil & Gas major in equipment manufacturing and services was facing the problem of product optimization and design analysis along with tightened delivery schedule. The major challenges before the organization were standardization of processes to reduce engineering cost and quick ramp up to meet surge in market demands. TCS provided the complete solution for design engineering and structural flexibility analysis, along with automation of piping and instrumentation diagrams, which helped the customer design a competitive product line and reduce the lead time for product design. The TCS solution thus helped the customer achieve the organizational goals of improving quality parameters, meeting increased market demands and improving the overall gross margin for the project.

#### Control system integration project helped in achieving the goal of standard design and uniform implementation approach for Utilities Major:

The program involved working on most of the 600 water and waste water treatment works of the client under tight deadlines and monitored against stiff regulatory requirements. As the systems integrator, TCS created standard design and uniform implementation approach covering documentation and control techniques resulting in a standardized look and feel that was easier to use and maintain for engineers, who worked on these 600 water and waste water treatment works. It was first ever offshore centric control system integration program for the company. TCS formulated the strategy for delivery and executed the projects with single-point program management system. TCS solution helped the customer in getting the following benefits - higher e-use due to standardization, structured documentation, knowledge base (IP) for future, information infrastructure for integrated enterprise of tomorrow and offshoring (up to 60% of total project effort was executed at offshore)..

### About Tata Consultancy Services (TCS)

Tata Consultancy Services Limited is an IT services, business solutions, and outsourcing organization that delivers real results to global businesses, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled services delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development.

A part of the Tata Group, India's largest industrial conglomerate, TCS has over 100,000 of the world's best trained IT consultants in 50 countries. The company generated consolidated revenues of US \$5.7 billion for fiscal year ended 31 March 2008 and is listed on the National Stock Exchange and Bombay Stock Exchange in India. For more information, visit us at [www.tcs.com](http://www.tcs.com)

To know more about our process plant engineering solutions, contact [corporate.engineering@tcs.com](mailto:corporate.engineering@tcs.com)

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TATA CONSULTANCY SERVICES

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Experience certainty. IT Services  
Business Solutions  
Outsourcing



In an extremely competitive environment where cost pressures and shortage of domain skills affect business, Tata Consultancy Services (TCS) Process Plant Engineering provides you a single-window, technology-driven business solution. It brings in significant reductions in engineering cycle time and engineering cost, combined with a mature and quality-oriented business model. With our offerings, we help you build and revamp your process plants in an innovative, cost-effective and speedy manner.

## Overview

Today, manufacturing industries face the challenges of fierce competition, cost pressures, migration and up-gradation from legacy to open systems. Lack of standardization because of multiple system suppliers, shop floor to board room integration and the need for global implementation support also pose issues. Process engineering accounts for about 10 percent of a plant's setup costs. More importantly, about 90 percent of the construction cost of a process plant gets determined at the design stage itself. These trends make it necessary for you to outsource to engineering service providers, who deliver high-quality and cost-effective solutions.

At Tata Consultancy Services Limited (TCS), our modular development approach, rigorous processes for development and testing, ramp up and ramp down flexibility along with custom-built tools and assets aid your process plant engineering. Our process plant engineering solutions provide you the benefit of end to end technology driven business solution combined with domain expertise across multiple technology platforms which helps you to optimize the capital expenditure cost and improve the operational efficiency of the plant. We offer solutions for following industry verticals: Power, Utilities, Automotive, Process industries, Food and Beverages, Consumer Packaged Goods, Pharmaceuticals, Oil and Gas, Mines, Metals and Minerals and Chemicals.

## Why TCS

Partnering with us assures you of a single window for automation, IT, validation, support and maintenance needs. With matured business communication, collaboration and delivery processes, we offer solutions that ensure enhanced regulatory compliance and ease of operation and maintenance. We bring the following business values to an engagement:

- **Global Network Delivery Model™.** Our Global Network Delivery Model™, a collaborative, superior framework of people, processes and infrastructure, makes it possible for us to consistently ensure the success of your initiatives anytime, anywhere.
- **Cost effectiveness.** Our dedicated and highly -skilled team along with offshore development centers ensure about 25-30 percent reduction in engineering cycle time and 35-40 percent reduction in engineering cost.
- **Expertise across multiple technology platforms.** Our domain knowledge and flexible work force gives us the ability to provide you with solutions across multiple technology platforms with expertise.
- **Process-driven approach.** At TCS, we believe in a process-driven approach to solve your problems. We are a Level-1 certified member of '**Control Systems Integrators Association**', which ensures that sound business practices and good quality management systems are in place.
- **Research and development initiatives.** In-line with the latest technology trends, TCS invests significantly in developing assets/solution accelerators to enable you to reduce the time-to-market for products. Our solution accelerators like Smart Automation toolkit for 'Automating the Automation' helps you increase your operational efficiency.

## Offerings

Process Plant Engineering provides offerings under the Control System Integration and Plant Design Engineering segments:

- Control System Integration includes control system design, development and deployment of services.
- Plant Design Engineering includes consulting, engineering delivery and support services.

