

TATA CONSULTANCY SERVICES



EIS Solutions for Resources (Metals, Mining and Construction) Engineering and Industrial Services



Experience certainty.

IT Services
Business Solutions
Outsourcing

Enterprises in the resources industry have to protect their profitability from escalating energy costs, globalization-led changes, and evolving regulations. To stay ahead in this demanding scenario, organizations have to streamline processes and bring in efficiency into operations across the value chain. Tata Consultancy Services' (TCS) EIS Solutions for Resources can help you achieve this. With comprehensive offerings that cover the complete plant and production process lifecycle, we work to automate and integrate processes, and enhance productivity and profitability.

Overview

Retaining market leadership in the resources industry asks for greater flexibility and adaptive skills. Enterprises here need to respond quickly to diverse market demands, and adapt to changing health, safety and environmental regulations. This requires adequate support from IT systems to monitor functions and processes, as well as help with optimal asset utilization.

At TCS, we provide resources solution for entire lifecycle of mines & metals business which involves mining for base metals and further processing of the core minerals leading to final metal production. Our experts work to create reliable IT-enabled solutions, which give you greater visibility and control over your operations. We align IT applications to your business processes, from plant to shop floor. This helps you monitor functions and asset utilization across the organization in real-time and implement changes to improve productivity. Along with an agile and efficient IT system, we bring you the following benefits:

- Improved performance and reliability to enhance asset and plant life;
- Reduced downtime;

- Optimized resource and energy consumption;
- Improved operational efficiencies across the enterprise;
- Optimized capital asset utilization;
- Better Health, Safety and Environment (HS&E) compliance;
- Sourcing and manufacturing support from low cost countries

Why TCS

Our vast domain experience and knowledge of industry best practices make us your partner of choice in providing reliable and cost-efficient solutions. We also bring you our:

- Global Network Delivery Model™, which enables us to provide you with high-quality services and solutions across the globe.
- Dedicated Domain Center of Excellence (CoE), which constantly enhances our competencies in this space and helps us create innovative offerings to meet industry needs.
- Innovation and off-shoring capabilities, which improve profitability.



Our solutions

We have solutions for the complete plant and production process lifecycle, which include:

- **Plant Design Engineering.** To set up plant infrastructure, coordinating various engineering functions and project management. This helps you optimize capital expenditure and improve operational efficiencies.
- **Manufacturing Execution Systems (MES).** To optimize production processes and integrate operational requirements with enterprise-level decision-making processes. It ensures seamless interaction of key business and production functions, and coherent flow of information across the manufacturing enterprise.
- **Advanced Process Control (APC).** To model and optimize systems for mineral and metal processing plants. It optimizes the performance of your plants by capturing the process behavior in intelligent systems and leads to maximized capital asset utilization, minimized resource and energy consumption, and high product quality technical support on the E&P applications.
- **Real-Time System (RTS).** To develop custom-built, real-time control (Level 2), interfacing plant applications and software legacy control system, products to serve minerals and metals organizations in data acquisition, control and advanced control shop-floor to enterprise integration.
- **Enterprise Asset Management.** To design and develop integrated asset management solutions. It enhances systems consolidation, product implementation frameworks and methodologies, deployment of single asset repositories for both linear as well as point assets, and compliance with the regulatory frameworks and standards.

We also have services in Geo Spatial Technologies, Product Engineering, Product Lifecycle Management, Embedded Systems, Electromechanical Manufacturing Services and Sourcing Manufacturing Solutions.

How we help our customers

Optimizing productivity

A world leader in aluminum production and management required a highly-efficient and well-integrated system, which could support product innovation across its operations. The issue was compounded by global operations and regulatory pressures on waste treatment. TCS helped the company meet its objectives through a range of design engineering services, and R&D initiatives in waste management. Our technical solutions brought in considerable savings, while a mix of on-site and off-shore sourcing across time zones reduced engagement costs and increased speed.

Creating a reliable system

A steel major in India had over 22,00,000 hard copy drawings and micro-films of their products, which posed tremendous challenges in terms of storage, retrieval and quality due to aging. The company had to track and preserve these drawings while also retaining the changes made to them in both soft and hard copy. TCS helped them implement Teamcenter as a solution, with adequate customization. This created a secure and people-independent system, which helped preserve and track product drawings efficiently and easily, making them accessible any time.

About Tata Consultancy Services (TCS)

Tata Consultancy Services 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

To know more about TCS' EIS Solutions for Resources, contact corporate.engineering@tcs.com

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