Thanks to Siemens’ maintenance experts, Tata Motors’ employees can focus all their attention on their core work of manufacturing passenger cars.

Tata Motors, India’s largest automobile manufacturer and the market leader in the commercial vehicle segment, relies on Siemens at its Pantnagar production facility in the Indian State of Uttrakhand. As the global market leader for products, solutions, and services for the automotive industry, Siemens was involved in the plant’s construction, for example, by supplying switchgear. When it came to maintenance, Tata Motors once again chose to partner with Siemens.

The challenge
Tata Motors needed qualified specialists for the maintenance and repair of the state-of-the-art equipment and machinery installed during the construction project. By signing the performance-based maintenance agreement with Siemens, the car manufacturer wanted to optimize its maintenance cost, reach defined key performance indicators (KPI’s), and ensure a required level of plant availability for certain production areas – all this without hiring additional maintenance staff.

Customer
Tata Motors Ltd.

Location
Uttrakhand, India

Products: ACE, IRIS, SEMO

Implementation period since March 2007

Scope of delivery and performance
Performance-oriented maintenance in the production areas, body shop/welding, paint shop and central power supply
The solution

The plant maintenance agreement was signed on the basis of jointly agreed KPIs, including defined plant availability of more than 98 percent for the body shop/ welding shop and paint shop as well as the power supply and distribution. A new performance monitoring system makes it possible to control the KPIs.

To meet the contractually agreed KPIs, Siemens’ service experts implemented a wide range of improvement measures for plant reliability, including computer-aided failure analysis (CAFA) and root cause failure analysis (RCFA). A newly installed energy management system delivers daily reports on the actual energy and fuel consumption, power outages, downtime, and maintenance work. Other key figures such as health and safety, spare part consumption, and stock turnover as well as the share of maintenance work completed are reported monthly. Condition-based maintenance, spare part analyses, and proposals for improving plant reliability optimize the cost of maintenance and spare parts.

The benefit

Both the customer and Siemens are extremely satisfied with the service partnership. “For the past six years, Siemens has been a reliable partner for the improvement of our productivity,” says a very pleased N. B. Tilak, who was responsible for plant maintenance at Tata Motors. Additional activities for the next two years are already being planned, including various audits and training courses.

Thanks to Siemens, Tata Motors is benefiting from significant energy savings, for example, in the welding process in its body shop. The company also receives support in identifying critical areas. Many proposed technical improvements were implemented in the paint shop and the body shop. Plant availability and adherence to maintenance schedules even exceed the target figures. As a result, Tata has awarded the maintenance in three additional plants (Dharwad, Pimpri, and Sanand) to Siemens.