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commence with the descaler and then continue with the six finishing stands and the cooling section through to the two downcoilers including the coil conveyor system, will be carried out during a downtime of only 23 days.

"After the modernization, our caster will be equipped with the latest state of technology and automation. Our hot strip mill will restart production with a completely new automation system and with revamped cycloconverters. We are sure that the amount and sophistication of the planning and engineering efforts dedicated by the SMS team to the project will lead to an even shorter shutdown than envisaged and make it possible to produce from the very beginning at a high quality level," says Satya Prakash, Associate Vice President (AVP) at JSW Steel Ltd.

The supply scope of the X-Pact® electrical and automation package includes the level-2 control systems with pass schedule calculation (PSC), profile, contour and flatness control (PCFC) and cooling section control (CSC) as well as the replacement of the complete level-1 systems inclusive of the technological control systems (TCS) and basic automation.

The implementation of the innovative HMI concept from SMS Siemag with new control desks ensures an ergonomic operating process. To be able to keep the shutdown period short, use will be made of the Plug & Work procedure developed by SMS Siemag. Here, the entire automation system will be tested with the original control units in place and optimized at SMS Siemag by means of comparison with a real-time simulation of the CSP® process. This unique procedure enables defects to be detected and eliminated right in the preliminary stages. As part of the Plug & Work test, the customer's operating staff are trained beforehand on the modernized plant operation system with a view to enabling them to become quickly familiarized with the new operating concepts and to actively participate in the commissioning activities.

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SMS Siemag AG is a company of the SMS group which, under the roof of the SMS Holding GmbH, consists of a group of global players in machinery and plant construction in steel and nonferrous metals processing. Its workforce of more than 13,500 employees generates sales worldwide totaling EUR 3.3 billion.

Besides the complete replacement of the plant automation, SMS Siemag will also replace the main drive control system while retaining the existing power sections. This will include the incorporation of new auxiliary systems and the revamping of the low-voltage drives through replacement of the converter systems.

In addition to increasing the plant availability, ease of maintenance will be decisively enhanced.

Commissioning is scheduled for the spring of 2015.

(99 lines of max. 65 characters