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Primetals Technologies Provides Process Automation Solution for JSW Steel Salem

- **Advanced process automation improves product quality and plant efficiency**
- **Digital transformation enhances operational consistency and productivity across JSW Steel's value chain**

Primetals Technologies has been awarded a contract by JSW Steel Salem works to implement advanced process optimization solutions at the Salem plant in Tamil Nadu State, India. The digitalization project includes the installation of comprehensive process automation systems (Level 2) at the meltshop and casting areas. These upgrades will increase JSW Steel Salem's production consistency, improve product quality, enhance operational efficiency, and reduce production-related costs.

Automated Plant Operation

The scope of supply covers advanced process automation systems for the entire meltshop, including four ladle furnaces (LF), two vacuum degassers (VD), two energy optimization furnaces (EOF), and two 3-strand bloom casters. The new systems will enable autonomous operation, minimizing manual operator input and stabilizing the production process through powerful metallurgical models and dynamic process control systems.

The intuitive user interface and well-balanced operator guidance will ensure consistent, reproducible results. The operator guidance feature is based on standardized production processes and meticulous calculations of all process steps, including cyclic online calculation of key process parameters like steel grade, slag composition, and temperature.

A Leading Integrated Steel Producer

JSW Steel is one of India's leading integrated steel producers, with a crude steel production of 35.7 million tons per year. With a strong global presence, JSW Steel is known for its innovative and sustainable approach to steelmaking and offers a diverse range of products including flat and long steel products. JSW Steel, Salem Works, is the largest special alloy steel plant in India with a capacity of 1 million tons per year and a portfolio of over 850 specialty steel grades for bar and wire rods.

The plant has won numerous awards, including the CII-ITC Sustainability Award and the IMC Ramakrishna Bajaj Award, recognizing its commitment to innovation and sustainable practices.

Key Facts: Project Scope

The process optimization automation solution at JSW Steel Salem works includes the installation of:

- LF Optimizer
- VD Optimizer
- CC Optimizer featuring the Quality Expert



Primetals Technologies will implement advanced process automation systems for the complete meltshop at JSW Steel Salem in India.

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