

## Danieli Corus successful Implementation of Seven Sublance System in India

Recently, the sixth and seventh of the total of seven sublance systems were successfully commissioned at the SMS II operated by JSW Steel at Toranagallu, India. Operations of three earlier systems commissioned at SMS I and two at SMS II is stable. All seven have been fully operational from the beginning of 2014.

This is the first successful implementation of a sublance-based BOF process control system in India. This market has been very reluctant towards installing sublances, but operations at JSW Steel are now proving the value for the Indian market. The reduction in tap-to-tap time, that may vary between 7 and 10 minutes, will allow for up to 20% of additional heats from the same steel plant. Additionally, the client will experience benefits from using the sublance-based system in terms of increased hit rates, reduced consumption of fluxes, optimized utilization of scrap and hot metal and improved health, safety and environmental performance. Typically, benefits of Sublance-Based Process Control for the SMS operator translate into value as follows:

### **Typical values:**

Tap-to-tap time	Reduced by 7–10 min/heat
Hot metal consumption	Reduced by 10 kg/ton
Scrap consumption	Increased by 10 kg/ton
Oxygen consumption	Reduced by 1.0 Nm <sup>3</sup> /ton
Aluminium consumption	Reduced by 24 kg/heat
Fe–Mn consumption	Reduced by 60 kg/heat
Energy savings	Equivalent to 20°C
Refractory wear	Reduced by 20%
Ergonomics	Better working conditions



For these sublances, the newest generation of measurement computer, DIRC VI, will be implemented. This new version allows for future additions to the measurement system. Phosphorous measurement will be implemented as well.

