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## **PRESS RELEASE**

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### Order for SMS Demag AG

#### **Tata Steel commissions SMS Demag to build the largest oxygen steelworks and the most powerful continuous slab caster in India**

Tata Steel Ltd., India, has contracted SMS Demag, Germany, to supply an oxygen steelworks and a two-strand continuous slab caster for the Kalinganagar location in the federal state of Orissa in the east of India.

With this order, SMS Demag will be supplying the largest converters and the most powerful slab caster in India as well as the world's largest primary dust-collecting system for a steelworks.

Tata Steel is the largest private steel producer in India and, by means of this order, will be realizing an ambitious project, envisaging an annual production of 3 million t of steel in the first phase. It is planned to increase the production by a further 3 million t in a second construction stage.

In the first construction stage, the oxygen steelworks will be equipped with two converters, each with a heat weight of 310 t. The supplies to be made for the oxygen steelworks comprise the core components for the two converters, with the fluxes supply and handling system, oxygen lance system, bottom stirring equipment, lamella suspension system and the converter gearing with four frequency-controlled drive motors. This gearing is fabricated in SMS Demag's own workshops in Hilchenbach, in the Siegerland area of Germany.

The supply scope for the oxygen steelworks also includes the basic automation, the user-friendly visualization system and the process model with fully automated blow control for the converter process.

The oxygen steelworks will also be equipped with a 340-t hot-metal desulphurization plant, a 310-t RH-TOP vacuum degassing facility and a 310-t CAS-OB facility consisting of a treatment stand.

The world's largest primary dust-collecting system for a steelworks has an extraction capacity of more than 0.5 million m<sup>3</sup> of process gas per hour and converter. Here, SMS Demag is employing the proven "Baumco CO system" for the cleaning and recovery of process gases, which has already been successfully implemented in over 200 facilities throughout the world.

The entire steelworks concept more than satisfies the current environmental requirements.

The two-strand continuous slab caster is designed for slabs with a thickness of 230 mm and slab widths of 1,000 to 2,000 mm and attains a casting speed of 1.9 m per minute. The supply scope includes the detail engineering, the mechanical and hydraulic equipment and the complete X-Pact<sup>®</sup> electrical and automation systems inclusive of the process models.

The mold, with resonance oscillator, is equipped with remote adjustment for the narrow faces, which enables the casting width to be adapted while operation is taking place. The oscillator, with variable oscillation frequency, stroke length and curve shape, guarantees continuously high quality of the slab surfaces. The facility is equipped with the SMS Demag-patented Dynamic Soft Reduction and with hydraulically adjusted CyberLink<sup>®</sup> segments.

The entire automation system for the steelworks and the continuous casting facility will be set up completely in the SMS Demag test center before commissioning and will then be tested and optimized with plant-specific simulation software operating under near-real conditions. This allows “Plug & Work” operations to be performed on the plant and the commissioning time to be reduced.

The commissioning of the complete plant belonging to the first construction stage at Tata Steel is scheduled for mid-2009.

(59 lines with max. 55 letters)

SMS GmbH is the holding for a group of companies internationally active in plant construction and mechanical engineering relating to the processing of steel, non-ferrous metals and plastics. The group is divided on the one hand into the Business Areas SMS Demag and SMS Meer under SMS metallurgy and, on the other hand, into the Business Area SMS Plastics Technology. In the year 2005 some 9,250 employees worldwide generated a turnover of about EUR 2.33 bn.