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PRESS RELEASE

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Order for SMS Demag AG

IISCO Steel Plant orders the building of a new X-Melt® converter shop

IISCO Steel Plant (ISP), India, has placed an order with SMS Demag, a company of the SMS group, Germany, for an X-Melt® converter shop for the production of quality steel grades at the Burnpur location in the Indian federal state of West Bengal.

Commissioning of the complete steelworks is scheduled for the end of 2010.

The order comprises the basic and detail engineering for all of the mechanical core components and the complete X-Pact® electrical equipment and automation package, the supply, erection, commissioning and commissioning supervision, and the training of the operating personnel.

The new steelworks is rated for an annual production of 2.6 million t of liquid steel. The steelworks comprises three converters each with a tapping weight of 150 t, three stirring stations, two ladle furnaces, an RH-TOP vacuum recirculation degassing plant, the primary and secondary gas cleaning systems and a converter off-gas recovery system.

The BOF converters are equipped with the maintenance-free lamella suspension developed by SMS Demag, with bottom-stirring systems for combined blowing and with the tilt drive systems manufactured in SMS Demag's own workshop in Hilchenbach, Germany.

The supply scope further includes the oxygen blowing lance system, the additives supply and ladle rebricking areas and the railbound ladle transfer vehicles.

For the primary gas collection, use is made of the proven SMS Demag adjustable skirts for the recovery of the highest possible proportion of energy-containing CO gas. SMS Demag is also supplying the waste-gas cooling system, the wet cleaners, the gas change-over and export stations, and a gas holder with a volumetric capacity of 50,000 Nm³ converter off-gas. With the aid of this technique, a volume of 200 million Nm³ converter off-gas per year can be used for replacing other fossil fuels for energy production. Not only the energy costs but also the output of CO₂ can thus be reduced considerably.

Secondary gas cleaning is performed by means of easy-to-maintain ElectroStatic Precipitators (ESP), which are rated for a capacity of over 1,870,000 Nm³ per hour.

The X-Pact[®] electrical and automation system is adapted to all of the mechanical components and, in addition to the technical control systems (Level 1), it includes the metallurgical process models (Level 2) for ensuring economical production and a high degree of steel quality.

The state-managed Steel Authority of India Limited (SAIL) caters for around 30 percent of the Indian crude steel production. Here, the range of quality grades extends as far as high-grade and special steels, which cover the dramatically increasing domestic demand and are also exported on the international market. The most important locations are the steelworks at Bhilai, Rourkela, Bokaro, Durgapur, and IISCO.

IISCO (Indian Iron & Steel Company) is the oldest steelworks in the SAIL Group and is also the one with the longest tradition. The new X-Melt[®] shop there will be replacing a still existing open-hearth steel plant over the medium term.

X-Melt[®] is an SMS Demag trademark from the Steelmaking Plant Division. It stands for plants that set standards for the economical production of high-quality liquid steel.

(59 lines with max. 55 letters)

SMS group is, under the roof of the holding SMS GmbH, a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. It consists of the two Business Areas SMS Demag and SMS Meer, which jointly form SMS metallurgy. In 2007, some 8,000 employees worldwide generated a turnover of about EUR 3.0 bn.