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Primetals Technologies supplies hot strip mill for Rourkela Steel Plant of SAIL

- **Three million metric tons of hot strip to be produced every year**
- **Plant produces high quality steels for automotive industry and API grades**
- **Pair cross technology ensures optimum control of profile and flatness**

Primetals Technologies will supply a hot strip mill with an annual production capacity of three million metric tons for Rourkela Steel Plant of Steel Authority of India Limited (SAIL). This order has been received by a consortium of Mitsubishi Corporation (MC) and Larsen & Toubro (L&T). MC will be responsible for the project management as a consortium leader, and L&T will undertake civil construction, erection and local supply. Primetals Technologies will undertake designing and engineering the entire plant as well as supply of main mechanical equipment as a main technology supplier. Hitachi Limited will design, engineer, and supply electrical equipment/automation system. The plant is to produce a wide range of steels, including high-quality grades for use in the automotive and household appliance industry, as well as for API grades. The stands of the finishing mill are being equipped with pair cross technology for optimum control of profile and flatness. The completed rolling mill is due to be handed over to SAIL at the end April 2018.

SAIL, in which the Indian state is a majority stockholder, is currently engaged in an ambitious expansion program that aims to boost production capacity from 14 to 24 million metric tons of steel a year. The Rourkela Steel Plant, established in 1955 as the first integrated steelworks in India, will increase its production capacity from the current level of 5.6 million tons to 10.8 million tons of steel. The new hot strip mill from Primetals Technologies is to produce hot rolled strip, some of which will be further processed in a new cold-rolling mill that is also being planned. The range of products includes carbon steels for the construction industry, low and medium-carbon steels, LPG cylinder steel and API grade steels, including X100, up to high-grade products that meet the requirements of the automotive industry. The maximum coil weight is 35 metric tons.

Primetals Technologies is responsible for the design, engineering and supply of the mechanical equipment of the hot-rolling mill. This includes a reheating furnace, a single-stand roughing mill, a seven-stand finishing mill, two down coilers, auxiliary systems and equipment for the roll workshop. Four stands of the finishing mill are equipped with pair cross technology. In pair cross mills the upper and lower work and back-up rolls are crossed toward each other pairwise, so that the two pairs of rolls form a narrow X when viewed from above. This permits optimum adjustment of the roll gap contour and thus a fine control of the strip profile. Depending on the angle set, the crown of the strip can be varied in a wider range than can be achieved in a conventional 4Hi mill with work roll bending only. Worldwide, approximately 150 finishing mills equipped with pair cross stands are in service.



Finishing train of a hot strip mill from Primetals Technologies. The stands are equipped with pair cross technology for optimum control of the profile.

This press release and a press photo are available at
www.primetals.com/press/

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Primetals Technologies, Limited headquartered in London, United Kingdom is a worldwide leading engineering, plant-building and lifecycle services partner for the metals industry. The company offers a complete technology, product and service portfolio that includes integrated electrics, automation and environmental solutions. This covers every step of the iron and steel production chain, extending from the raw materials to the finished product – in addition to the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a joint venture of Mitsubishi Heavy Industries (MHI) and Siemens. Mitsubishi-Hitachi Metals Machinery (MHMM) - an MHI consolidated group company with equity participation by Hitachi, Ltd. and the IHI Corporation - holds a 51% stake and Siemens a 49% stake in the joint venture. The company employs around 9,000 employees worldwide. Further information is available on the Internet at www.primetals.com.