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SAIL Orders Fourth Hot-Blast Stove from Primetals Technologies for IISCO Steel Plant

- **New internal combustion chamber type stove will be added to blast furnace No. 5 “Kalyani”**
- **Project includes extension of hot blast main to accommodate the additional stove**
- **Additional hot blast stove ensures the security of operations and enables existing stoves to be taken offline for repair without affecting site operations**

Primetals Technologies recently received an order from Steel Authority of India Limited (SAIL) for the design, supply, and installation of a new hot-blast stove for blast furnace No. 5, named “Kalyani,” of the IISCO steel plant at Burnpur, Asansol city, West Bengal, India. The addition of this fourth stove will enable IISCO to repair existing stoves without impacting plant production or efficiency. Implementation is scheduled to take place 17 months from the date of contact signing. Upon completion, the IISCO steel plant will benefit from the operational advantages of utilizing four stoves.

Efficient Combustion

The upcoming internal-combustion-technology stove includes a range of innovative features – including a “mushroom dome” developed for longer equipment lifetime due to its stable refractory design and a vertical ceramic burner to enable good mixing and efficient combustion. In addition, the hot-blast mains will be extended to accommodate the fourth stove.

Primetals Technologies will provide the design, engineering, manufacturing, and construction of the new stove shell. The supply also includes high-grade refractories, expansion joints, hydraulic systems and valves along with the hot-blast main extension and associated support and access structures.

Leading Integrated Steel Manufacturer

Steel Authority of India Limited (SAIL) is one of the largest steelmaking companies in India. SAIL produces iron and steel at five integrated plants and three special steel plants, located principally in the eastern and central regions of India and situated close to domestic raw material sources.

IISCO Steel Plant (ISP), a unit of SAIL, is one of India’s oldest integrated steel plants. Established as an industrial enterprise in 1918, the plant has been progressively modernized and expanded to a capacity of 2.5 million tons per year. It is now entering another period of expansion to enhance capacity by around

four million tons per year. With three rolling mills at the site, SAIL IISCO manufactures a range of wire rod, bar, and section products.



Representatives of SAIL IISCO and Primetals Technologies at the contract signing ceremony.



Internal combustion stoves from Primetals Technologies installed in India.

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