



REF:INABB:STATUT:LODR:PRESS REL:

September 20, 2023

BSE Limited  
P.J. Towers  
Dalal Street  
Mumbai 400 001  
**(Attn : DCS CRD)**

National Stock Exchange of India Ltd  
Exchange Plaza, 5<sup>th</sup> Floor  
Plot No. C/1, G Block  
Bandra-Kurla Complex, Bandra (E)  
Mumbai 400 051

Attn: Listing Dept.

Dear Sirs

Sub: Press Release

We are sending herewith a copy of Press Release, which is being issued by the Company today to the media, for the information of the Stock Exchanges, as required under the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015.

Kindly take the same on record.

Thanking you,

Yours faithfully,

For ABB India Limited

Trivikram Guda  
Company Secretary and Compliance Officer  
ACS 17685

Encl: as above

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BENGALURU, INDIA, SEPTEMBER 20, 2023

# ABB to roll out electric powertrain system for ArcelorMittal Nippon Steel's new steel mill in Hazira, India

- ABB is partnering with SMS group to supply all the medium-voltage (MV) motors and MV drives for a new hot strip mill at Hazira, in Gujarat
- Gearless solution to provide greater reliability for the roughing mill
- Low-voltage (LV) drives will also support auxiliary equipment
- New plant will produce around 5.5 million tons of steel strip per year

ABB is working in partnership with SMS group, a specialist in plant construction, mechanical and electric & automation engineering for the metals industry, to provide all the MV motors and MV drives for ArcelorMittal Nippon Steel's new hot strip mill in India. The scope also includes a large number of low voltage (LV) drives. The project at Hazira, an industrial hub in Gujarat, is part of a major expansion of the site, which is already India's fifth-largest producer of crude steel. When it becomes operational in 2025, the new mill will increase Hazira's production capacity by around 5.5 million tons per year.

The hot strip mill will roll thick slabs of cast steel into thin strip suitable for industrial customers. ABB is supplying and installing 13 MV drives and 16 large MV motors. These will form the drivetrain for the two key elements of the operation, the roughing mill and the finishing mill. The former receives steel slab at a temperature of around 1.240 °C and makes the initial reduction in thickness. The steel will then go to the finishing mill, one of the largest of its kind, where it will be reduced to its final thickness. In addition to the MV equipment, ABB is also supplying 14 LV multidrives line ups and 256 LV inverters to support auxiliary services.

The well-established direct torque control (DTC) technology embedded in ABB's drives will deliver a very fast and accurate response to any changes in the load on the motors during the rolling operations. This precision control will ensure the optimal quality of the finished steel product. The multidrives capability of the MV drives will be employed in some parts of the operation to control four motors in parallel, reducing the installation footprint and saving energy.

A major technical challenge for ABB has been the design of the gearless drive system for the roughing mill. This provides greater control over the process while reducing the number of moving parts for increased reliability. According to SMS group the expansion of the Hazira plant is a very high-profile project that will enable the future transfer of carbon-neutral steel technology, which is currently under development by ArcelorMittal Nippon Steel. That is why they decided to work in partnership with ABB to utilize its proven expertise in providing reliable, high-performance powertrain solutions for the demanding applications found in steel mills.

“This project for SMS group and ArcelorMittal Nippon Steel is a key reference for ABB in India’s fast-growing metals sector. India is the second largest producer of crude steel in the world, with 120 million tons produced last year. ABB has a particular advantage as a supplier of both large MV motors and drives. Not only do these help to improve energy efficiency, performance and product quality, but we can also support clients with our specialized commissioning and installation services. For example, motors like the AMZ2000 we are deploying at Hazira are so big that they have to be assembled onsite with the stator and rotor delivered as separate lots,” said Chris Poynter, Division President for System Drives, ABB Motion.

**ABB Motion** keeps the world turning – while saving energy every day. We innovate and push the boundaries of technology to enable the low-carbon future for customers, industries and societies. With our digitally enabled drives, motors and services our customers and partners achieve better performance, safety and reliability. We offer a combination of domain expertise and technology to deliver the optimum drive and motor solution for a wide range of applications in all industrial segments. Through our global presence we are always close to serve our customers. Building on over 130 years of cumulative experience in electric powertrains, we learn and improve every day. [www.abb.com](http://www.abb.com)

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**For more information please contact:**

**Sohini Mookherjea**

Phone: +91 9632726608

Email: [sohini.mookherjea@in.abb.com](mailto:sohini.mookherjea@in.abb.com)