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

National Stock Exchange of India Ltd
Exchange Plaza, 5th 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.

Thanking you

Yours faithfully
For ABB India Limited

T K Sridhar
Chief Financial Officer

Encl: as above

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BENGALURU, JUNE 23, 2021

# ABB completes melt shop digitalization project with India's leading steel company, boosting productivity and profitability

## Digital solution connects steel melt shop operations with ladle and crane tracking and thermal loss prediction for higher casting speeds and additional output of 24,000 tonnes per annum

ABB has built on a long-term relationship with JSW Steel Ltd, India's leading steel company, by integrating its digital solution ABB Ability™ Smart Melt Shop into a wider expansion at Dolvi Works plant in Maharashtra state.

With the project, completed on schedule in March 2021, ABB has improved productivity and energy efficiency for the steel melt shop by developing an operations optimization solution, including ladle and crane tracking system, crane scheduling system and thermal loss models, to predict target temperature for ladle furnaces and ensure the correct superheat at the caster. This is expected to increase the company's EBITDA profit by around USD two million per annum through four percent higher casting speeds, time savings of one working day per month and additional output equating to 24,000 tonnes a year.

The plant now has real time tracking of steel ladles for process synchronization and better maintenance planning. In wider benefits, the lower energy consumption means fewer consumables used per batch and therefore a lower carbon footprint with less $CO_2$ per tonne of steel produced. Automatic tracking and scheduling increases personnel safety as they are removed from the production area during crane and ladle movements. The scheduling solution also results in reducing tapping delays by ensuring these movements are synchronized with process requirements.

It is an example of overcoming one of the major challenges facing steelmakers today, which is to maintain the optimal temperatures required to make molten steel while balancing high electrical energy costs. Ensuring the right temperature at the right time, together with other parameters in the molten steel, directly determines steel quality and productivity. ABB's Industry 4.0 led solution minimizes temperature superheat deviation and thermal losses resulting in higher caster speeds by around four percent, improved productivity, energy efficiency and steel quality.

"We relied on the metallurgical expertise of ABB's Metals team as they proved to us that this digital solution could be integrated into our complex plant with its diversified operational procedures," said Gajraj Singh Rathore, President, JSW Steel Ltd. "The figures and the results from testing stacked up and we could see the capacity to enhance productivity, improve energy efficiency and generate a relativity quick return on investment too."

“Based on advanced digital algorithms and mathematical modeling, ABB Ability™ Smart Melt Shop is a true example of technology convergence as it utilizes cameras and image-processing, weighing systems, radar, laser and wireless-based technologies to ensure steel melt shops operate at optimum levels where crane and ladle tracking and their availability are critical to the entire steelmaking process.” said Tarun Mathur, Global Product Manager and Digital Lead for Metals, ABB.

“Our data from performance testing has shown significant increase in superheat compliance, returning time savings equating to more than nine hours per month and nearly 2,000 additional tonnes produced per month,” said Amit Kumar Chakraborty, Project Manager for Metals, ABB.

Additional benefits of the ladle tracking system include reduction in tapping delays in the electric arc furnace, reduction of electrode and power consumption at the ladle furnace and reduction in silicon deviation in hot rolled coils produced from slabs from the continuous caster.

A complete range of products, services and end-to-end solutions that improve productivity, quality, safety and cost-efficiency in iron, steel, aluminium and other metals production processes are available through ABB. Across the whole metals value chain, ABB demonstrates a commitment to optimize operations with high performance products and digital solutions.

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**ABB** (ABBN: SIX Swiss Ex) is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB’s success is driven by about 105,000 talented employees in over 100 countries. www.abb.com

**Process Automation:** ABB’s Process Automation business is a leader in automation, electrification and digitalization for the process and hybrid industries. We serve our customers with a broad portfolio of products, systems, and end-to-end solutions, including our #1 distributed control system, software, and lifecycle services, industry-specific products as well as measurement and analytics, marine and turbocharging offerings. As the global #2 in the market, we build on our deep domain expertise, diverse team and global footprint, and are dedicated to helping our customers increase competitiveness, improve their return on investment and run safe, smart, and sustainable operations.

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**For more information please contact:**

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