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April 17, 2018

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

B Gururaj
Deputy General Counsel &
Company Secretary
FCS 2631

Encl: as above

BENGALURU, INDIA, APRIL 17, 2018

ABB pumping technology helps rescue parched farms and villages in India

ABB has deployed five of its highest-capacity motors – each capable of pumping 23,000 liters per second – as part of the Mahatma Gandhi Kalwakurthy Lift Irrigation Scheme

Years of severe drought have created a water crisis in the Mahbubnagar region in Telangana, a state in southern India where half the population of 35 million depends on agriculture to earn a living. The water table had virtually depleted and the monsoon rains now only last three to four months a year. The only option for providing adequate water for farming and drinking is to pump it from the Krishna River to a reservoir nearly 300 meters above. From there, through a gravity-driven “lift irrigation” system, the water can be channeled through nearly a hundred kilometers of canals to the parched farms and more than 300 villages that were at risk of turning to desert.

That 12-year-long project, the Mahatma Gandhi Kalwakurthy Lift Irrigation Scheme (MGKLIS), was recently completed. This was made possible only through considerable feats of civil engineering: industrial-strength water pumping technology and electric-power management systems that ABB, with decades of irrigation experience in India, provided.

Now, the villages have a dependable supply of drinking water. Just as crucially, with the canals and a network of storage tanks irrigating about 137,000 hectares of land (an area nearly as large as the sprawling city of Los Angeles in California, U.S.A.), farmers who had retreated to cities in search of a livelihood, are now returning to cultivate the soil once again.

“Agriculture is one of the largest sectors of the Indian economy, employing almost half of the population. Best in class technology from ABB which can be used to manage availability of water and create the last mile connect with farmers, can have a significant impact on India’s future development,” said Sanjeev Sharma, Managing Director of ABB India. “ABB India is proud to be a part of projects like these where we use ABB technology to build a sustainable future for the nation and mitigate uncertainties.”

Ramakrishna, a local farmer left the village eight years ago and worked as a manual laborer in the construction industry in the city. “After hearing the benefits of the project from my friends, I came back to have a look,” he said. Now Ramakrishna cultivates peanuts in his home village. “I can now get adequate water throughout the year and have witnessed the parched land transform into miles of greenery,” he added.

Heavy lifting, carefully controlled

Pumping water at thousands of liters per second to reach a reservoir 298 meters above river level – the height of the Eiffel Tower – requires huge motors and high-voltage power systems. The MGKLIS project called for lifting the water in three separate stages, with ABB handling the critical middle stage – Lift II, with an 86-meter rise.

The key features of the Lift II project were five 30-megawatt (MW), 11-kilovolt (kV) motors, each with a 23,000-liters-per-second pumping capability. They are the largest capacity and physically biggest motors used yet by ABB India in an irrigation project. Each motor has a footprint of more than 30 square meters.

Powering these motors up to pumping speed from a dead start requires considerable amounts of electricity and potentially puts great strain on the mechanical systems and the local utility grid. ABB's soft starter solution involves a 6 MW load commutated inverter (LCI) that minimizes the electrical surge, and variable frequency drives (VFDs) in the motors that enable them to start smoothly before accelerating up to 333rpm.

ABB partnered with Andritz Pumps to provide this advanced pumping solution. In addition, ABB also offered substation equipment, transformers, and a digitally enabled supervisory control and data acquisition (SCADA) monitoring system that ensures a steady and reliable drawing of power from the grid and smooth pumping of water into the reservoir.

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing a history of innovation spanning more than 130 years, ABB today is writing the future of industrial digitalization and driving the Energy and Fourth Industrial Revolutions. As title partner of Formula E, the fully electric international FIA motorsport class, ABB is pushing the boundaries of e-mobility to contribute to a sustainable future. ABB operates in more than 100 countries with about 135,000 employees. www.abb.com

FOR MORE INFORMATION PLEASE CONTACT:

SOHINI MOOKHERJEA

TEL: + 91 9632726608

Email: sohini.mookherjea@in.abb.com

PETER STIERLI

TEL: + 91 9901722298

Email: peter.stierli@in.abb.com