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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
General Counsel and Company Secretary
FCS 2631

Encl: as above

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ROORKEE, INDIA, JANUARY 25, 2019

ABB microgrid to be installed at IIT Roorkee, the oldest technical institution of Asia as part of joint smart campus development

The ABB microgrid is part of the extended R&D collaboration between ABB and IITR to create platforms for research on various aspects of smart city technology deployment

The groundbreaking ceremony of ABB microgrid with battery energy storage at the campus of Indian Institute of Technology, Roorkee (IITR), was held to commence the smart campus development project. This is part of the larger R&D collaboration outlined in an MoU (memorandum of understanding) between ABB and IITR signed in July, 2018. The agreement for technology collaboration also includes the creation of a Smart Grid Resource Center, joint R&D facilities and support for PhD students.

The smart campus development, in addition to the microgrid, would include technology solutions like smart metering, SCADA, ring main unit (RMUs) and a backbone of wireless broadband communication platform. It aims to create an operational smart grid network integrating all sources of energy including diesel generation and renewable energy. Another objective is to create a research platform to meet the requirements of the evolving grid like bi-directional flow of electricity with localized generation and enhance environmental awareness to influence consumer behavior to maximize usage of clean energy. This will serve as one of the pilot projects for Government of India's Smart Cities Mission. The project cost is being partially funded by ABB India under its CSR initiatives.

IIT Roorkee currently has solar PV systems installed at 27 locations across the campus amounting to 1.8 MW of solar generation. When the 11 kV ABB Ability™ PowerStore microgrid is commissioned in 2020, ABB's advanced microgrid technology will enable the institute to increase the use of renewable energy, identify potential of demand side control, and integrate other power sources. The ABB Ability™ Microgrid, SCADA, and smart metering will enable complete remote monitoring and maintenance, as well as visualization of overall energy requirements of the campus.

"This is yet another milestone and we are privileged to work with IIT Roorkee to set-up a microgrid in the oldest engineering college campus in the country. With green energy becoming the preferred choice, grid edge technologies such as microgrids are becoming a viable option to harness renewable power for smarter, inclusive and sustainable cities and also to provide access to reliable power in communities, campuses, or in remote or off grid areas," said Pitamber Shivnani, President, Power Grids, ABB India. "This microgrid, along with the smart grid model, that will be set up on campus, will demonstrate the future of power."

IIT Roorkee has done pioneering work in recent years to build an eco-friendly campus using renewable sources. The goal is to become a self-sustaining and zero emission green campus.

“Sustainability through adoption of new technologies has been at the core of all developmental activities at IIT Roorkee. We believe this collaboration with ABB using the IIT Roorkee campus as the hub for R&D on futuristic technologies for smarter, sustainable cities will create many milestones,” said Prof. Ajit Chaturvedi, Director of IIT Roorkee. “The microgrid is one such important element and the smart electricity distribution network and management system that we are undertaking will enable us to create a 100 percent green campus and achieve zero carbon dioxide emissions in the long run.”

The advanced energy metering solutions will be used for energy accounting, billing and collection process. The metering solution will measure energy supplied by grid and diesel generators in separate registers to apply differential tariff, which will sensitize the campus residents/user community about the cost impact due to diesel consumption. ABB SCADA will offer the operator a centralized view of the grid condition and network snapshot. It will also enable power restoration swiftly from the central control, achieving minimum duration for power outage, thus improving availability. Retrofit of the ring main unit (RMU) will enable remote switching operation from the central command center and minimize people movement for manual switching. The wireless broadband communication backbone will pave the way to integrate other services on a common platform, which will be on the lines of an operating model of a smart city.

About ABB

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in power grids, electrification products, industrial automation and robotics and motion, 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 with two clear value propositions: bringing electricity from any power plant to any plug and automating industries from natural resources to finished products. As title partner in ABB 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 147,000 employees. www.abb.com/in

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About IIT Roorkee (https://www.iitr.ac.in/)

IIT Roorkee is an institute of national importance imparting higher education in engineering, sciences, management, architecture and planning, and humanities and social sciences. Since its establishment in 1847, the Institute has played a vital role in providing technical manpower and know-how to the country. In the Times Higher Education Asia University Rankings 2018, the institute has been ranked 3rd among the IITs, while on the citations criterion it has been ranked 1st among all the Institutes in India. IIT Roorkee is an institution with pioneering contribution in the field of education, training, research and development, advisory services in various fields including hydro, hydrology, water resources, geology, earthquake, renewable energy and environmental management advisory and has world class laboratories related to hydropower and water sector.
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