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September 10, 2019

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

We are sending herewith a copy of media note, which is being issued by us, for the information of the Stock Exchanges.

Thanking you

Yours faithfully  
For ABB India Limited

B Gururaj  
General Counsel & Company Secretary  
FCS 2631

Encl: as above

## **ABB India and the National Institute of Technical Teachers Training & Research (NITTTR) sets up the first of its kind digital simulation lab in the emerging education hub of Chandigarh**

The first of its kind multi-physics Simulation Center of Excellence (SCoE) in the country will enhance skill development for critical electro-mechanical equipment design and manufacturing, catalyzing make in India for the students and the faculty members of the institute.

ABB signed the MoU with NITTTR, a flagship institute under the aegis of the Ministry of Human Resource Development and one of the initial four institutes, set up in the country to realize the need for training better quality technical manpower to meet the large-scale industrialization of the country. The funding for the project is part of ABB India's CSR initiative.

The Simulation Centre of Excellence has added another feather in the cap of educational hub of Chandigarh and Mohali, having institutes of repute ranging from business schools to state of the art research institutions. Chandigarh and its adjoining areas have also become a sought-after destination also for outsourcing industries.

Students from electrical and mechanical engineering department of the institute have been working with ABB on online remote condition monitoring of motors and issues of motor casings. Though the SCoE was established with focus on electromechanical systems, the high-performance computing feature of workstations in SCoE has also been used by students of Computer Science Department of NITTTR for their post graduate thesis work in the domain of Machine Learning.

"A combination of knowledge and expertise developed through the right skilling initiatives would be key to take the Indian economy to the next level of growth. ABB India over decades has been working on various initiatives to catalyze teaching, learning and skill development on best in class global technology and practices," said Sanjeev Sharma, Managing Director, ABB India. "We are happy that our partnership with NITTTR, one of the oldest institutes of technical training in the country, has made the first of its kind digital simulation lab operational in the emerging educational hub of Chandigarh. Such digital infrastructure in the academia will be the stepping stone to prepare future generations to navigate technology disruptions across the industry," he added.

"The upgraded computing, simulation and analysis facilities available in SCoE has brought opportunities for NITTTR students and faculty for research of complex industrial systems. With the availability of SCoE infrastructure, NITTTR faculty has been able to introduce new short-term courses in the domain of Finite Element Analysis for the technical teachers," said Prof. Shyam Sundar Pattnaik, Director, NITTTR. "Thus, SCoE has a cascading effect in improving the quality of technical education system through state-of-the-art learning tools. NITTTR, Chandigarh through SCoE will address the industrial requirements as well as provide an opportunity to the faculty and research scholars to work on real-life for industrial projects and latest technologies of digitalization like machine learning and latest computer aided engineering software," he added.

High-end computing workstations and complete suites of ANSYS & COMSOL Multiphysics software for the SCoE were procured. Some of the sophisticated Computer Aided Engineering (CAE) software such as ADSTEFAN (for casting simulation), Simufact (for forming & forging simulation), KissSoft (for gear design) etc. were also ported on the high-end workstations for enhancing the efficiency of simulation and provide superior learning experience for the students.

The focus on clean energy and digitalization in the manufacturing and energy sector has also led to higher demand for superior quality, connected and innovatively designed products and solutions for the domestic and international markets. Optimal and robust design of electro-mechanical equipment in the current context is guided by the recent advances in computing machines, parallel processing and simulation tools. Proliferation of advanced automation, digitalization with industry 4.0 has also revolutionized the world of digital product designs and prototypes with digital twins, 3D modelling, robotics on the foundation of thermal, mechanical and electromagnetics.

**About ABB:**

ABB (ABBN: SIX Swiss Ex) is a technology leader that is driving the digital transformation of industries. With a history of innovation spanning more than 130 years, ABB has four customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by the ABB Ability™ digital platform. ABB's Power Grids business will be divested to Hitachi in 2020. ABB operates in more than 100 countries with about 147,000 employees. [www.abb.com](http://www.abb.com)

**About National Institute of Technical Teachers Training & Research (NITTTR):**

National Institute of Technical Teachers Training & Research, Chandigarh is one of the four such institutes established in 1967 to realize the need for training better quality technical manpower to meet the large scale industrialization of the country. The Institute at Chandigarh was started in collaboration with Royal Netherlands Government, which continued upto 1974. The mandate of the institute includes Education and Training Programmes, Curriculum Development, Instructional Material Development, Research and Development, Extension Services, Consultancy in Technical Education and Technology areas. The institute offers Master and Ph.D. programs in engineering and technology. It also conducts short term training programs of one/two week(s) duration for teachers and staff of technical institutions and industry personnel. [NITTTR](http://NITTTR)