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Siemens supports SAMARTH Udyog initiative of Department of Heavy Industry

- **Siemens signs MoU with IISc for setting up the digital transformation labs; MoU with CMTI supporting Smart Manufacturing Demo and Development Cell**
- **Researchers and faculty at the Indian Institute of Science (IISc) to be equipped with digitalisation products, technology and skills**
- **Machine Tool industry professionals to benefit through future-ready digitalisation skillsets, courtesy support of Central Manufacturing Technology Institute (CMTI)**

Siemens Limited signed two separate Memorandums of Understanding with Indian Institute of Science (IISc) and Central Manufacturing Technology Institute (CMTI) respectively to establish first-of-its-kind digital transformation labs. The labs are aimed at enhancing the expertise of researchers at IISc as well as technical skills of professionals in the Machine Tool industry. The MoUs will focus on development of Industrial Internet of Things and Industry 4.0-enabled products and technologies.

This initiative will benefit many research scholars, students and industry professionals across the Machine Tool industry in Bengaluru for a period of three years. Special emphasis will be given to equip the labs with technologies, products and prototypes of emerging digital technologies such as Digital Twin, Blockchain Technology, Automatic Guided Vehicle, etc. This initiative will encourage adoption of smart digital technologies by MSMEs of manufacturing sector.

Sunil Mathur, Managing Director and Chief Executive Officer, Siemens Limited, said, “India has one of the youngest populations in the world and building human capital will be key to supporting economic growth in the coming decades. With Digital transformation now a priority for industry, premier educational institutions such as IISc and CMTI have a crucial role to play in equipping researchers and professionals with cutting-edge technology and expertise. With the latest MoUs, our focus will be to develop not only skills but also solutions that could transform the everyday for industry and society.”

Professor Amaresh Chakrabarti, Head of Smart Factory at IISc and Chair of its Centre for Product Design and Manufacturing (CPDM), said, “In order to provide exposure to the advanced software suite to the staff and students of IISc, Siemens has offered some of the best digitalization tools and support to set up the Digital Transformation Lab. This support will give valuable experience and exposure to students and faculty with tools and technologies that are commonly used in industry. It will help researchers and students to be better prepared for industrial jobs and on the other hand, excel in Academia-Industry collaboration by offering a platform for know-how sharing by enabling a common engineering environment that is familiar to both.”

Dr. Nagahanumaiah, Director, CMTI, said, “We are immensely proud to associate with Siemens, a global technology leader, in equipping researchers/students with the best-in class digitalization tools, software, cloud platform etc. through the set-up of the Smart Manufacturing Demo and Development Cell. This will greatly help in promoting indigenous research and development especially in the areas of emerging technologies which would be instrumental to the growth of Indian Manufacturing industry in the future.”

The Smart Factory at IISc and the Smart Manufacturing Demo and Development Cell at CMTI are two of the five experiential and demonstration centers for Industry 4.0 sanctioned under the Smart Advanced Manufacturing and Rapid Transformation Hub (SAMARTH) Udyog initiative of the Ministry of Heavy Industries and Public Enterprises, Government of India. The support from Siemens will be used to develop IIoT/Industry 4.0 enabled digital twin-based platform for machine tool industry and a machine tool health monitoring app on the platform.

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The Indian Institute of Science (IISc) is a public, deemed, research university for higher education and research in science, engineering, design, and management. QS World University rankings ranked IISc second in the world in terms of citations per faculty, IISc was ranked 301–350 in the world by the Times Higher Education World University Rankings of 2020, the top institute in India, as well as 29th in the 2019 Asia ranking.

Central Manufacturing Technology Institute (CMTI) is a Research & Development organisation focusing on providing 'Technology Solutions' to the manufacturing sector and assisting technological growth in the country. CMTI plays a key role in applied research, design and development (RD&D), technology forecasting, assimilation and dissemination of manufacturing technology to Indian industries.

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