

Mumbai, December 14, 2020

Siemens to equip India's first fleet of electric boats with zero emission

- **Electric propulsion drive train and automation technologies for safe, cost saving and reliable operation of vessels**
- **Energy Storage to help ensure continuity of power while maximizing performance and ensuring zero carbon emissions**

India's largest and most advanced shipbuilder Cochin Shipyard Ltd. selected Siemens to implement advanced marine solutions for India's first fleet of 23 boats equipped with electric propulsion and battery integrated technology.

Siemens will equip the boats with electric propulsion drive train, energy storage integration (battery) and vessel automation technologies for the boats that Cochin Shipyard Ltd. is building to strengthen Kochi Metro Rail's last mile connectivity for islands around Kochi.

The Electric propulsion drive train systems will reduce fuel requirements, increase maneuverability, minimize environmental risks and make boats comfortable with their modular design. The energy storage systems help in reliable, uninterrupted supply of power to maximize performance and ensures zero carbon emissions. In addition, the ferries will also be equipped with automation systems for safe, cost saving and reliable operation of the vessels.

Mr. Madhu S Nair Chairman and Managing Director of Cochin Shipyard Ltd, said, "Pleased to partner with Siemens, a leading global technology leader in energy and automation solutions. The advanced marine solutions coupled with automation technologies will improve safety, help us monitor critical functions and result in higher operational efficiencies and productivity. The project is a first of a kind showcase for inland waterways in India. The technologies will also ensure zero carbon emissions placing high priorities on environment conservation. This project perfectly fits in line with CSL's vision to partner in creating innovative solutions towards sustainable marine transportation."

Gerd Deusser, Head, Energy, Siemens Limited, said, “We take great pride in partnering Cochin Shipyard Ltd. in modernizing the boats with our innovative and state-of-the-art technologies. The development of the inland waterways will play a huge role in establishing an integrated mobility system for the people, goods and services in Kochi, and will set a benchmark for the nation. Siemens’ leadership in technologies that ‘Transform the Everyday’ and global project management expertise in equipping customers with cutting-edge technologies pave the way for maximizing performance and output. The project also showcases our commitment towards decarbonization and environment sustainability.”

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Siemens Limited focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process, discrete & hybrid manufacturing industries. The Company brings together the digital and physical worlds to benefit customers and society. It offers broad expertise across the entire energy value chain, along with a comprehensive portfolio for utilities, independent power producers, transmission system operators, the oil and gas industry, and other energy-intensive industries. With its products, solutions, systems, and services, it addresses the needs of energy transition, including storage and sector-coupling solutions. It is also a supplier and service provider of intelligent mobility solutions for rail, road and inter-modal transport for passenger and freight services. Siemens Limited is the flagship listed company of Siemens AG in India. As of September 30, 2020, Siemens Limited had Revenue from continuing operations of INR 9,581 crore and 9,258 employees. Further information is available on the Internet at www.siemens.co.in.

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