SIEMENS

Press

Mumbai, July 17, 2017

Siemens to install state-of-the-art IGBT technology for Indian Railways

- **Insulated Gate Bipolar Transistors are power electronics for the traction system of electric and diesel-electric rail vehicles**
- **The technology reduces the requirement for current, minimizing heat and traction noise while also making the acceleration process efficient**

Indian Railways contributes to the enduring success of the nation's growth story through its pivotal role in ensuring reliable, safe and secure transportation of people, goods and services. With a focus on modernization, expansion of rail networks and energy efficiency, Siemens has been a trusted partner of the Indian Railways for the last six decades.

Siemens Limited will be designing, supplying and installing Alternating Current (AC) Traction systems for Dual Cab High Horsepower Diesel Engine locomotive for Diesel Locomotive Works (DLW), Indian Railways. The systems have been developed based on the state-of-the-art Insulated Gate Bipolar Transistors (IGBT) technology. The AC Traction systems will be produced at the Nashik Factory of Siemens Limited.

IGBTs are state-of-the-art power electronics for the traction system of electric and diesel-electric rail vehicles. The main benefit of IGBT is that it reduces the requirement for current, minimizing heat and traction noise while also making the acceleration process efficient.

"The advent of IGBTs has yielded strong efficiency gains in electric drive technology. The project showcases Siemens' partnership with the Indian Railways as it combines innovation with responsibility to bring together the combined expertise of its teams, that is committed to deliver reliable, safe and efficient technologies," said Tilak Raj Seth, Executive Vice-President and Head, Mobility, Siemens Limited.

Siemens Ltd.
Birla Aurora, Level 21, Plot No. 1080, Dr. Annie Besant Road,
Worli, Mumbai – 400030 , India
Tel. : (022) 3967 7000, 3967 7537
Head, Corporate Communications: Ramya Rajagopalan
Corporate Identity Number: L28920MH1957PLC010839
Reference number: CC/PR/19/MO 07 2017

Contact for journalists:

Siemens Ltd., Media Relations

Bijesh Kamath, phone: +91 22 3967 7537, 3967 7000

E-mail: bijesh.kamath@siemens.com

Follow Siemens India on Twitter: www.twitter.com/siemensindia

Siemens Limited focuses on the areas of electrification, automation and digitalization. It is one of the leading producers of technologies for combined cycle turbines for power generation; power transmission and distribution solutions; infrastructure solutions for Smart Cities and transportation; automation and software solutions for industry, and also supplier of healthcare equipments. Siemens Ltd. has 21 factories located across India and a nation-wide sales and service network. Siemens Limited, in which Siemens AG holds 75% of the capital, is the flagship listed company of Siemens AG in India. As of September 30, 2016, Siemens Limited had Revenue of INR 108,089 million and 9,580 employees. Further information is available on the Internet at www.siemens.co.in

Forward-looking statements: "This document contains forward-looking statements based on beliefs of Siemens' management. The words 'anticipate', 'believe', 'estimate', 'forecast', 'expect', 'intend', 'plan', 'should', and 'project' are used to identify forward looking statements. Such statements reflect the company's current views with respect to the future events and are subject to risks and uncertainties. Many factors could cause the actual result to be materially different, including, amongst others, changes in the general economic and business conditions, changes in currency exchange rates and interest rates, introduction of competing products, lack of acceptance of new products or services, and changes in business strategy. Actual results may vary materially from those projected here. Siemens does not intend to assume any obligation to update these forward-looking statements."