



REF:INABB:STATUT:LODR:PRESS REL:

March 31, 2017

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

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  
Deputy General Counsel &  
Company Secretary  
FCS 2631

Encl: as above

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BENGALURU, MARCH 31, 2017

# ABB's technology ventilates Asia's longest road tunnel in Jammu & Kashmir

ABB's technology central to another major Indian infrastructure project. High power drives and motors run the ventilation system with specialized safety software, contributing to the efficient operations of this critical connectivity link.

The new 10.8 kilometre Chenani-Nashri tunnel in Jammu & Kashmir, the longest highway tunnel in Asia, will feature a state-of-the-art ABB ventilation system to ensure that users have access to fresh air as they drive through it. ABB India has partnered with IL&FS Transportation Networks Ltd. and Sterling & Wilson Ltd. in the development of yet another major Indian infrastructure project.

"This is a proud moment for us," said Sanjeev Sharma, CEO and Managing Director, ABB India. "We are providing the muscles and lungs for this critical new tunnel."

ABB's technology sits at the heart of some of the world's most complex and advanced infrastructure. ABB built the world's most powerful ventilation system for Gotthard Base Tunnel in Switzerland, which opened to the public in December 2016. It is the world's longest (57 kilometres) and deepest (8,000 feet maximum depth) train tunnel. From measuring devices in London Tower Bridge to the London Underground to the Statue of Liberty and Burj Khalifa, ABB technologies have been a part of landmark projects around the world.

In case of the new Chenani-Nashri tunnel, it will reduce the distance between state capitals by 30 km while ensuring safe and swift passage for commuters, even in adverse weather conditions. This tunnel is the India's first and the world's sixth road tunnel with a transverse ventilation system enabled by ABB drives and controlled by ABB software. For such long tunnels, ventilation systems are essential to maintain clean air, permissible carbon dioxide levels and expel harmful vehicle emissions. To ensure smooth travel and safety of commuters, ABB has designed, engineered and supplied low harmonics variable speed drive (VSD) system for tunnel ventilation. The VSDs and motors are installed at the North (Nashri) and South (Chenani) portals for air supply and exhaust. These VSDs are also equipped with inbuilt redundancy to ensure minimum downtime.

Sharma said, "We have been present in India for more than a century now and have been partnering and contributing to critical infrastructure projects in the country with our global technological expertise. The new tunnel's safety controls were developed by ABB in India, for effectively mitigating any fire emergencies."

The Chenani-Nashri tunnel, at an altitude of 1,200 meters, is a part of National Highway Authority of India's (NHAI's) project between Jammu and Srinagar, along National Highway 44. The existing route between the towns of Chenani and Nashri passes through Patnitop and is prone to heavy snowfall and avalanches leading to frequent roadblocks and unsafe travel.



“Technologically this is one of the most advanced road tunnels built in the country, surmounting challenges of terrain and distance. We are proud that ABB technologies will save time and costs for the people of Jammu & Kashmir,” said Subir Pal, President, Robotics and Motion, ABB India.

**ABB** is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing more than a 125-year history of innovation, ABB today is writing the future of industrial digitalization and driving the Energy and Fourth Industrial Revolutions. ABB operates in more than 100 countries with about 132,000 employees.

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