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# ieema journal

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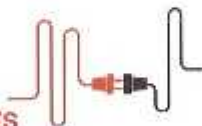
## From the President's Desk

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## Samvaad

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## Appointments



This new space in the IEEMA Journal will incorporate recent important appointments in the power and related sectors

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## Cover story

### IEEMA Annual Convention and 70th AGM

With Make in India – Enhancing Global Footprint being the theme of IEEMA's Annual Convention 2017 held on September 22, 2017 at hotel Leela in Mumbai, the convention witnessed the presence of global powers like United States, Brazil, Iran, Sri Lanka and Korea and the subject was highly appreciated by the dignitaries and industry leaders present on the occasion. The convention was followed by the 70th Annual General Meeting of IEEMA where the newly elected President of IEEMA Mr Sreegopal Kabra took over the post.



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## IEEMA event ELROMA 2017



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## Thoughts

Mr. Sreegopal Kabra, President, IEEMA



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## Face to Face



BBME projects play vital role in supplying maximum power to the Northern grid during monsoons: Mr DK Sharma

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## Interview

Transforming Indian Mobility is in its initial stage now, we have to see how it pans out in the next 2-3 years: Mr. A. M. Devendranath



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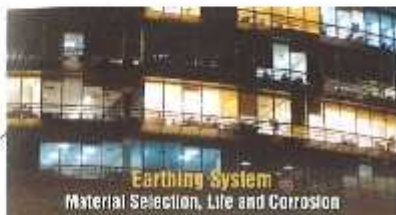
## Interaction

Mr MP Kannath, Chairman, IEEMA LV Switchgear Division and Mr Rajkumar Panicker, Vice Chairman, IEEMA LV Switchgear Division speaks to IEEMA Journal about the growth drivers and the challenges faced by the LV Switchgear industry

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## Guest article

### Earthing System – Material Selection, Life and Corrosion



An ideal earthing system especially the earth electrodes shall offer long life almost equal to the life of a building or at least 30 to 40 years. But often the system degrades and need maintenance, replacement or improvement. In general maintenance of earthing is a difficult task for the engineer especially in an industrial and commercial installation. In most of the cases corrosion is the main reason for deterioration of earthing system.

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## In focus

### Fundamental of Good and Service Tax in India

Fundamentals of Goods and Services Tax in India

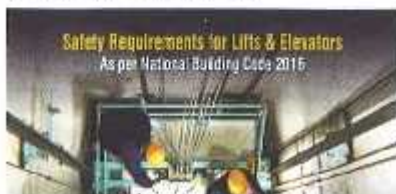


A tax is not a voluntary payment or donation, but an enforced contribution, exacted pursuant to legislative authority and is any contribution imposed by government whether under the name of toll, tribute, impost, duty, custom, excise, subsidy, aid, supply, or other name.

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## Opinion

### Safety Requirements For Lifts & Elevators as Per National Building Code 2016



The Indian elevator industry has witnessed rapid growth of 13.5% per annum since 2001. High-rise trend is the key influencing driver of the elevator market in the country.

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## Technology

### Spring Actuated Internal Disc Brake for Induction Motor



Induction motor finds application in almost all industries. Its wide applications varies from lifting small weights to rotating large compressors. Its high efficient, robust, compact and reliable design has made it very popular in several industries.

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## Opinion

### A Complete Monitoring System for High Power Drive



This paper deals with monitoring and peripheral control of a 350kW PMSM drive system. The complete drive control and monitoring algorithms are implemented in a DSP/FPGA based hybrid board.

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## Innovation

### Aeroacoustics Noise Estimation for Rotating Electrical Machines



Aeroacoustics Noise Estimation for Rotating Electrical Machines

Noise for an electrical machine is the second most important factor considered after efficiency in generating value to customers. Noise is generated by multiple sources such as vibration of the mechanical parts, fan, bearings, rotor eccentricity, etc.

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## Solutions

### Design and Development of a 250 KW Medium Voltage Drive with Selective Natural Harmonic Elimination

Multilevel Power conversion with Hybrid topology has been receiving increasing attention in the past few years for high power applications. Numerous topologies and modulation strategies have been introduced and studied extensively for utility grid and drive applications in the recent literatures.

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## Guest article

### Conversion Of Alternators Of Nonviable Old Power Plants To Synchronous Compensators--- A Case Study To Improve Grid Voltage Profile



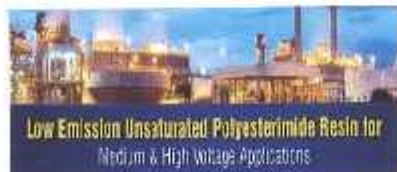
Conversion of Alternators of Nonviable Old Power Plants to Synchronous Compensators  
- A Case Study to Improve Grid Voltage Profile

In India, a large number of power plants are becoming operationally unviable & will be shut down in the near future. This is due to high fuel cost, degradation in overall heat rate, emission problems, ageing etc.

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## In depth

### Low Emission Unsaturated Polyesterimide Resin for Medium & High Voltage Applications



Impregnating resins used for the medium and high voltage application industry need to fulfil high technical requirements to ensure a reliable operation of the electrical machine.

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### Remote Condition-based Monitoring in Oil Immersed Distribution Transformers



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- US selects Nepal for projects to promote economic growth

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- Energy storage market to touch 70 GW by 2022

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