

the leading electrical & electronics monthly

ieema journal

VOL 17 • ISSUE NO. 6 • FEBRUARY 2026

PGS. 110

ISSN 0970-2946 • ₹100/-

THE NEW GEN OF ROTATING MACHINES



OTHER STORIES:

- **SPECIAL REPORTS:** First Unit of India's Largest HEP Commissioned; Launch of CoE for Power Sector Regulatory Affairs; Approval for 22 Proposals under ECMS-Tranche 3
- **THINK TANK:** India Energy Storage Alliance
- **INSIGHTS:** Reimagining Motor Efficiency; Preventing Bearing Failure in VFD Operated Motors; Transformers – Electrifying Modern Buildings; Transformer 360 Diagnostics Solution



ONE STOP COMPONENTS SOURCING SHOW

LEADING EXHIBITORS*

- ASHTAVINAYAKA ENERGY INFRA PVT LTD
- ATUL ENGINEERING WORKS
- BEDMUTHA INDUSTRIES LTD.
- BHUMI BRASS & ALLOY
- BILLETS ELEKTRO WERKE LTD.
- BRASS COPPER & ALLOY (I) LTD.
- CBS TECHNOLOGIES
- CHUAN SHUN ELECTRIC COMPANY (INDIA) PVT. LTD.
- COMPAQ INTERNATIONAL (P) LIMITED
- COSPOWER ENGINEERING LIMITED
- CRYSTAL MECHANICALS PVT LTD
- DEE FIVE SHRINK INSULATIONS PVT. LTD.
- ELE CHEM SYSTEMS PVT. LTD.
- ELECTROTHERM
- EMR TAP CHANGERS PRIVATE LIMITED
- HENSEL ELECTRIC INDIA PVT. LTD.
- JAIN GREEN TECHNOLOGIES PRIVATE LIMITED
- JAY COPPER AND ALLOYS PVT LTD
- KRYFS POWER COMPONENTS LTD.
- LUCENTS TECHNOLOGIES INDIA PVT LTD
- MECO INSTRUMENTS PVT. LTD.
- MG ELECTRICA LIMITED
- ONLOAD GEARS PRIVATE LIMITED
- PERFECT SALES CORPORATION
- PRANEEL CASTINGS PVT LTD
- PRECIMEASURE CONTROLS PVT. LTD.
- RAJ LAXMI INDUSTRIES
- SALZER ELECTRONICS LIMITED
- SENOR METALS PVT LTD
- SET ON SITE ELECTRICALS PVT. LTD.
- SHIV SHAKTI PRESSTECH PRIVATE LIMITED
- SIGMA INDUSTRIES
- SIVANANDA ELECTRONICS
- SOHAN COPPERTech PVT LTD
- SONAGARA BRASS INDUSTRIES
- SUMIP COMPOSITES PVT. LTD.

*List is illustrative

CONFIRMED OEM BUYERS*



*and many more...

FEW STALLS LEFT

compolec

A unique component sourcing show



25-27 February 2026



Mumbai

BOOK YOUR STALL



Scan QR to
Download Brochure

For more details, contact: Murli Krishna M: +91 9980053992 | E: murlikrishna@ieema.org



Welcome to the future of cable fault location

PRIMEON

**Centrally controlled and fully automated
cable fault location and cable testing van**

- 7 individual fault locating technologies included
- Toolbox philosophy
- Different control units and mounts available
- Sets the benchmark for safety
- Integrated world record radar technology
- Various setups possible to accommodate your preferences



Book your demo!

www.cabletestvan.com

Megger[®]

the leading electrical & electronics monthly

ieema journal



**For Subscription and Advertisement
Queries Contact:**

Prakash Powar

Mobile: +91 99700 77977

Tel.: +91 22 2493 2705

Email: journal@ieema.org

501, Kakad Chambers,
132, Dr. Annie Besant Road,
Worli, Mumbai 400018, INDIA

Why Advertise in IEEMA Journal?

- IEEMA Journal Covers Techno-Commercial Articles, Interviews, International and National News, Statistics, Product Showcase, Seminar, Exhibitions and Services.
- It is the only trade magazine in India that enjoy a readership of around 1,00,000
- It is circulated to Ministries of Power, Finance, Commerce, Defence, Railway, Information & Technology, Utilities like NTPC, NHPC, DVC, PGCIL etc

Plug into the Right Connection

IEEMA Journal is the leading electrical and electronics monthly and the mouthpiece of the electrical equipment industry in India

International exposure

The overseas circulation of IEEMA Journal includes all Indian Missions abroad, counterpart electrical associations of IEEMA in countries like Japan, Taiwan, Australia, Germany, Spain, China, Italy, Malaysia, Korea, US, France, UK etc.

MARKET LEADERS FOR GENERATION



for electrical power industry in India and SAARC countries, from Low voltage 1.1 kV to Extra high voltage upto 245kV.

NEXT-GENERATION LOW VOLTAGE COLD APPLIED JOINT



**SHORTER
PIT LENGTH**



**NO GAS TORCH
REQUIRED**



**2-YEAR
SHELF LIFE**



**20% FASTER
INSTALLATION**

**SUPPLY RESTORED
IN JUST 15 MINS**

Product Offerings

- Cable Accessories
- Cable Management Solutions
- ABC Accessories
- ELPS
- Solar Products
- Enclosures
- Transformers
- Covered Conductors
- EV & BESS Bus Bars
- Surge Arrester
- Electrical Safety
- Gas Metering Solutions

✉ CIC@raychemrpg.com
 🌐 www.raychemrpg.com
 ☎ 022 4574 5060

Contents

Volume 17 • Issue No. 6 • February 2026

CIN U99999MH1970GAP014629

Official Organ of Indian Electrical & Electronics
Manufacturers' Association

Member: The Indian Newspaper Society

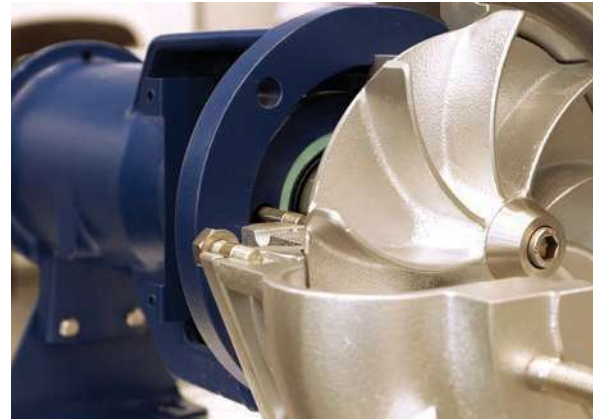
From the President's Desk	10
Samvaad	12

For suggestions and feedback, please write
to us on editor.ieemajournal@ieema.org

COVER STORY

The Next Generation of Smart & Efficient Rotating Machines 14

The future of the electrical rotating machine industry will see an increased adoption of intelligent, connected, and application-specific machines, positioning India as a strong global manufacturing and export hub for efficient motors and generators. What was once a 'supporting' industry for power and manufacturing is evolving into a strategic enabler of electrification and sustainability, as this story unfolds...



SPECIAL REPORTS

First Unit of India's Largest Hydropower Project Commissioned 61

Shri Manohar Lal, Union Minister of Power, Housing & Urban Affairs, recently inaugurated commercial operations of Unit-2 (250 MW) of the 2,000-MW (8 x 250 MW) Subansiri Lower HEP, touted as the country's largest hydropower project.

MoP Launches Centre of Excellence for Regulatory Affairs in the Power Sector 51

The Centre of Excellence, located at IIT Delhi, is expected to play a key role in supporting informed and forward-looking regulation.

Approval for 22 Proposals under 3rd Tranche of ECMS 28

The MoEIT has approved an additional 22 proposals under the Electronics Components Manufacturing Scheme with projected investments of Rs41,863 crore and projected production of Rs258,152 crore.

2025 Marks Highest-Ever RE Expansion in India's Energy Transition Journey 24

India added a record 44.5 GW renewable energy capacity in 2025 (up to November 2025), nearly doubling annual additions.

THINK TANK

"The India Energy Stack is India's Aadhaar moment for energy." 47

- Bindu Madhavi, Director-Policy & Regulatory,
India Energy Storage Alliance

SPECIAL FEATURES

Year 2025: From Meeting Peak Power Demand to Reducing Energy Shortages 56

The year 2025 marked a landmark period for India's power sector, with historic advancements in energy generation, T&D, reaffirming India's position on the path to becoming a global energy leader.

The Future of Building Electrical Systems 78

Electrical systems remain the foundation of every building. With increasing thrust on reliability, safety, sustainability and efficiency, the building of the future will not just consume electricity, but produce, store and share it. More in this feature...

FOCUS

Key Technological Advancements Driving the MEP Industry 73

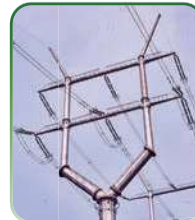
Vijaya Kumar CK, Founder, EPG Consultants Pvt Ltd, highlights prominent trends in the MEP Industry.

ONE-STOP SHOP EPC COMPANY

**SALASAR TECHNO
ENGINEERING LTD.**



**220kV Multi Circuit Tension/
Dead End Dual Pole**
MSETCL (Maharashtra State
Electricity Transmission
Company Ltd.), Mumbai



**400kV Double Circuit
Tension Dead End Y-Pole**
MSETCL (Maharashtra State
Electricity Transmission
Company Ltd.), Mumbai



**400kV S/C "Tension/Dead
End" Y-Pole**
PGCIL (Power Grid
Corporation of India Ltd.),
Lucknow



**220kV Double Circuit
Cable Termination Pole**
MSETCL (Maharashtra State
Electricity Transmission
Company Ltd.), Mumbai



**Asia's widest galvanizing
facility*** powered by 13m(L) &
3m(W) bath for peak throughput



In-house engineering built on
advanced tools like **STAAD, PLS,
L-Pile and ACI codes**



4 State-of-the-art
manufacturing units spread
across **45+ acres**



**30mm Mild Steel Bending
Capacity** with High-Precision
Machinery



**211,000+ MTPA Installed
Capacity** for Large-scale
Execution



**In-house Quality Labs – Certified
with ISO, OHSAS, CPR and Other
Standards to Ensure Safety and
Regulatory Compliance**

* As per our sources

ENGINEERING • PROCUREMENT • CONSTRUCTION • MANUFACTURING

Salasar Techno Engineering Ltd.

☎ 0120-648-8470

✉ marketing@salasartechno.com

🌐 www.salasartechno.com

Dayanand Swamy Kuna, FIE, C.Eng

President/CEO (Sales/Marketing & EPC)

☎ +91-83299-40086 • +91-99608-97384

✉ dayanand.kuna@salasartechno.com

dayanand.kuna@gmail.com

INSIGHTS

Reimagining Motor Efficiency: From a Machine to an Enabler of Energy Transition 42

Every unit of electricity saved through improved motor efficiency directly lowers coal consumption, reduces stress on the power grid, and delivers immediate and measurable carbon emission reductions, writes **Mayur Karmarkar, MD** and **Mohit Gupta, Project Manager, International Copper Association India**.

Prevention of Bearing Failures for VFD Operated Motors due to Bearing Currents 32

Atul Jugade, Business Development Manager-LV Motors, Siemens Ltd, shares recommendations on arrangements for motors when operated with VFDs.

Transformers: The Silent Backbone Electrifying Modern Buildings 53

Be it oil-filled or cast resin, analog or smart, the transformer's role is expanding beyond energy conversion to energy consciousness, writes **Dr. Amit Chaudhari, Associate Director and Head-MEP & Infrastructure-India, KPM Engineering Consultants**.



Residential Buildings: Energy Conservation with AI, Carbon Footprint Reduction with HT Power 80

Bhadresh Shivashankar, Associate Vice President & Head-MEP, Sattva Developers, writes on smart technologies in the electrical space that can enhance the built environment.

Transformer 360 Diagnostics Solution: From Field Testing, Online Transformer Monitoring, Advance Analytics and Digital Asset Management 63

This paper by **Rupesh Kumar, Nimesh Gurjar** and **Rahul Mane** of **The Motwane Manufacturing Company** presents a comprehensive approach of transformer health monitoring combining offline and online maintenance data.

IEEMA EVENTS

Telangana Power Conclave 87

IEEMA recently concluded the first edition of the Telangana Power Conclave to boost the electrical and electronics manufacturing industry in the state and strengthen its Southern region presence.

IEEMA ACTIVITIES

Training Programme on 'Latest Trends in MV & HV Switchgear Testing, Operation and Maintenance' 90

Quality Management Professional (QMP) Training at Jaipur 92

Webinar on 'New Labour Codes I Practical Compliance' 93

Webinar on 'Building Emotional Resilience & Mental Well-Being for Women Leaders in the Power Sector' 94

Job Fair at NSIC, Howrah 95

POLICY UPDATES 96

- India's power sector offers USD 500 billion investment opportunity as capacity addition hits 4-5 GW a month.
- Union Minister Pralhad Joshi concludes Abu Dhabi visit with focus on clean energy investment and cooperation.
- India, Germany review cooperation under Green and Sustainable Development Partnership.
- India, New Zealand conclude landmark FTA negotiations.
- Power Minister Shri Manohar Lal reviews power projects in J&K.
- Draft National Electricity Policy (NEP), 2026 released.
- India's power transmission network crosses 5 lakh ckm.

NEWS

NATIONAL 99

- MoP amends RoW compensation guidelines for transmission projects.
- Revised guidelines for type tests and MQAP for major equipment of power sector issued.
- Invitation of comments on draft Technology Catalogue.
- POWERGRID subsidiary commissions Bhadla-Sikar transmission project.

- SJVN commissions 70 MW Dhubri solar power project in Assam.
- India's first 315 MVA synthetic ester oil-filled transformer commissioned.

INTERNATIONAL 100

- Laos, Thailand, Malaysia partner to advance LTMS-PIP Phase-II crossborder power trading framework.
- Standard Chartered issues €1 billion green bonds.

CORPORATE 100

- Adani Power to raise up to Rs75 billion through NCD issuance.
- Waaree Energy Storage Solutions raises Rs10.03 billion for 20 GWh lithium-ion cell manufacturing.
- ReNew plans to USD 500 million offshore bond via GIFT City.
- Hinduja Renewables to invest USD 4 billion to scale RE capacity to 10 GW.
- L&T gets civil works contract for 3,000 MW Saidongar-1 PSP in Maharashtra.
- KP Group to invest Rs40 billion in RE projects in Gujarat.

PRODUCT SHOWCASE

Next-Gen Multifunctional Test Set 102

Digital Multimeter 102

POWER STATISTICS

- Global Scenario 103
- Indian Scenario 104

IEEMA DATABASE

- Basic Prices and Indices 105
- Production Statistics 106

AD INDEX 107

SHOCKS & SPARKS

Corporate Coups – By RG Keswani 108

For subscription and advertisement queries,
write to: journal@ieema.org

Edited, printed and published by Ms. Charu Mathur on behalf of Indian Electrical and Electronics Manufacturers' Association, and printed at Indigo Press (India) Pvt Ltd, Plot No. 1C/716, Off Dadoji Konddeo Cross Road, Between Sussex and Retiwala Industrial Estate, Byculla (E), Mumbai-400 027, and published at 501, Kakad Chambers, 132, Dr. Annie Besant Road, Worli, Mumbai 400 018.

EDITORIAL BOARD

ADVISORY COMMITTEE

Founder Chairman

The late RG Keswani

Chairman

Sunil Singhvi

Members

Sunil Singhvi
Rohit Pathak
A Naveen Kumar

R Krishnakumar

Mustafa Wajid
Atul Arya
Imteyaz Siddiqui

Editor

Charu Mathur

Statistics & Data Incharge

Ninad Ranade

Printed at

Indigo Press (India) Pvt Ltd

Designed by

Varghese Sakariya

Registered Office – Mumbai

501, Kakad Chambers, 132, Dr A Besant Road, Worli, Mumbai 400 018.

Phone: +91(0) 22 24930532 / 6528

Fax: +91(0) 22 2493 2705 • Email: mumbai@ieema.org

Corporate Office – New Delhi

Rishyamook Building, First floor, 85 A, Panchkuian Road, New Delhi 110001.

Phone: +91 (0) 11-23363013, 14, 16

Fax: +91 (0) 11-23363015 • Email: delhi@ieema.org

Branch Office – Bengaluru

K Seetharaman, Assistant Director

State Head – Karnataka, Kerala and Tamil Nadu

Regional Representative-Southern Region

Mobile: +91 99800 04982

Email: k.seetharaman@ieema.org

Branch Office – Kolkata

Sanjoy Mukherjee, Regional Representative-Eastern Region

Mobile: +91 98308 50757

Email: sanjoy.mukherjee@ieema.org

Website: www.ieema.org

Articles: Technical data presented and views expressed by authors of articles are their own and IEEMA does not assume any responsibility for the same. IEEMA Journal owns copyright for original articles published in IEEMA Journal.

STATE HEADS

Rajesh Parab

Senior Executive Officer & State Head-Maharashtra

Mobile: +91 97022 69598

Email: rajesh.parab@ieema.org

Anuj Kumar Chaturvedi

State Head-UP, Uttarakhand & MP

Mobile: +91 98396 03195 / 95191 38844

Email: anuj.chaturvedi@ieema.org

Ashish Vikram

State Head-UP

Mobile: +91 98733 05589

Email: ashish.vikram@ieema.org

Omkar Pradhan

State Head-Gujarat

Mobile: +91 98199 06433

Email: omkar.pradhan@ieema.org

Mohammad Irfan Parray

State Head-Jammu & Kashmir

Mobile: +91 98584 55509

Email: irfan.parray@ieema.org

Nilankha Chaliha

State Head-North East

Mobile: +91 97063 89965

Email: nilankha.chaliha@ieema.org

Rajnish Kaushik

State Head-Haryana, Punjab, Himachal Pradesh & Chandigarh

Mobile: +91 99911 10246

Email: rajnish.kaushik@ieema.org

Sairam Rayepeddi

State Head-Hyderabad

Mobile: 9642345691

Email: sairam.rayepeddi@ieema.org