



WORKSHOP 2026



एक दिवसीय कार्यशाला

“बैटरी ऊर्जा भंडारण का भविष्य: प्रौद्योगिकियां, रुझान और चुनौतियां”

One – day workshop on

“The Future of Battery Energy Storage: Technologies, Trends and Challenges”

27 फरवरी 2026 / 27th February 2026 (Friday)



आयोजक / Organized By

केंद्रीय विद्युत अनुसंधान संस्थान

Central Power Research Institute

बैंगलुरु, भारत / Bengaluru, India

www.cpri.res.in

ABOUT CPRI

Central Power Research Institute (CPRI) - An Autonomous Society under Ministry of Power, Government of India set up in 1960 as a National organization for applied research in power sector and also serves as an Independent Laboratory for testing and certification of power equipment. CPRI has expertise in the area of Simulation, System Analysis and Testing and Diagnostics. CPRI laboratories have modern equipment needed for Power system simulation, Short circuit testing, Diagnostics of equipment, Materials engineering, Seismic qualification, Battery cells and packs testing etc. The institute has made immense contribution to the advancement of research and development in power sector besides finding solution to various problems faced by power utilities and industries in areas of transmission and distribution.

CPRI is continually setting new standards in training and continuing education from basic theoretical information to practical hands-on electrical equipment training. CPRI courses have made substantial impact on the level of training and education to India's electricity utilities, manufacturing companies, transmission and distribution companies

About the Workshop

The accelerating growth of Electric Vehicles and renewable energy market is a clear indication for batteries as one of the disruptive technology. Batteries are gaining popularity for renewable, portable, Drone and EV applications due to their numerous advantages. Lithium ion Batteries have a higher specific energy and specific power when compared to the conventional systems such as lead acid batteries and are therefore more reliable for driving an EV over wider operating range. However, safety is one of the major challenges that have to be considered in case of lithium ion batteries for broad range of applications. With several reported instances of lithium ion battery fires and explosions, it is essential to understand the performance and safety characteristics of these batteries since they pose a serious threat to human health and life if used in an improper manner.

Various testing protocols and standards have been developed to facilitate and regulate battery use in different applications. Manufacturing of lithium ion batteries which satisfy the performance and safety requirements in accordance to the standards and test protocols developed by the authorized bodies ensures that the products are produced in accordance with government, regulatory, or industry requirements and compliance needs and also results in uniformity in the final product. This further results in ease of designing auxiliary components such as charging stations and sockets for EV battery charging.

This one-day workshop on "The Future of Battery Energy Storage: Technologies, Trends and Challenges" aims to serve as an introductory course on various critical aspects related to lithium ion batteries and other upcoming battery chemistry. The workshop will also brief on the different tests performed for validating the performance, safety and abuse characteristics of these batteries with an overview of national and international standards published concerning use of lithium ion batteries in EV and renewable energy storage. The workshop also aims to bring attention on the present status and future prospects of commercial level Battery Energy Storage System (BESS).

Topics to be covered

The programme aims to cover the following topics –

- **Battery cells & Chemistry Fundamentals**
- **Super-Capacitors, Lithium-ion, Sodium-ion and Zinc-ion Batteries**
- **Battery modules, Packs & Battery Management Systems**
- **Battery Energy Storage System (BESS) and its application**
- **Safety, Standards and testing of BESS and Its market scenario**

Participants

The workshop is directed towards representatives from battery manufacturers, students/researchers from university/colleges, engineers from power utilities, Research organizations, academic institutions, and manufacturers of Power Equipment, Operation & maintenance engineers and Consultants.

Venue:

CCAR Auditorium,
Central Power Research Institute
Prof. Sir. C V Raman Road,
Sadashivanagar P O,
Bangalore- 560 080

Landmark: CPRI is situated in between Mekhri Circle and Yeshwanthpur.
Near Indian Institute of Science (commonly known as Tata Institute)

Registration

The prospective participants, desirous of attending the workshop may register by sending their details to CPRI along with necessary payment. Use the enclosed registration form and send it along with the payment details. The workshop time will be 9.00 AM to 5.30 PM on 27th February 2026. The registration fee shall cover the Workshop Kit, copy of workshop proceedings, Tea/Coffee/Lunch during the workshop.

The registration fee for attending the workshop is given below:

Sl. No.	Institutions	Fee (Rs.) per person
1.	General Registration fee	Rs. 6,000 + 18% GST
2.	Faculty Members of Educational Institutions	Rs. 4200 + 18% GST
3.	Students of Educational institutions	Rs. 3000 + 18% GST
4.	Group discount for private organizations for the nomination of a) Minimum 3 participants b) Minimum 4 or more participants	Rs. 5400 + 18% GST Rs. 4800 + 18% GST
5	State Govt/ Central Govt/ Public sector/ Power sector Utilities etc.	Rs. 4200 + 18% GST

Mode of Payment

Please make the payment through the link and update us. Do contact to Accounts team 080-22072339 (EATD)/ 080-22072262 (CPRI) in case of any clarifications.

Sponsorship Opportunities

We invite customers to enhance their business opportunities by way of sponsorship. For more details please contact Mr. R.K.Gajendra, Joint Director / HoD-EATD.

Important Dates / Deadlines

Registration Starts	:	10 th January 2026
Registration Ends	:	25 th February 2026
Workshop Date	:	27 th February 2026

*Please check CPRI website (www.cpri.res.in) for updates if any.

Travel and Accommodation

- Bangalore is well connected by Road, Rail and Air
- Participants have to make their own travel arrangements
- Guest house accommodation on twin share basis can be provided on chargeable basis subject to availability at CPRI.

Workshop Coordinator(s)

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