

HZL/2025-26/SECY/156

February 06, 2026

BSE Limited
Phiroze Jeejeebhoy Towers
Dalal Street, Fort
Mumbai – 400 001

Kind Attn: General Manager – Department
of Corporate Services

Scrip Code: 500188

Dear Sir/Ma'am,

Sub: Press Release

We are pleased to inform you that Hindustan Zinc Limited, in collaboration with the Jawaharlal Nehru Centre for Advanced Scientific Research, has developed stable and reliable zinc-ion battery pouch cell prototypes for large-scale renewable energy storage. The Press Release in this regard is enclosed.

The same is also available on the website of the Company at www.hzlindia.com.

This is for your information and records.

Thanking You.

Yours faithfully,
For Hindustan Zinc Limited

Aashhima V Khanna
Company Secretary & Compliance Officer

Encl: as above



Hindustan Zinc and Jawaharlal Nehru Centre for Advanced Scientific Research Advance Zinc-Ion Battery Technology for Large-Scale Energy Storage

- *The current prototypes are stable, reliable and suitable for storing renewable energy, such as solar power.*
- *The team is working to further improve the batteries for higher energy storage and longer-duration use.*

Udaipur, 6th February 2026: Hindustan Zinc Limited (BSE: 500188 & NSE: HINDZINC), the world's largest integrated zinc producer and amongst the top five silver producers globally, in collaboration with the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), has developed stable and reliable zinc-ion battery pouch cell prototypes for large-scale renewable energy storage. This milestone marks a significant step in India's indigenous research on energy storage technologies.

Zinc-ion batteries are emerging as strong candidates for stationary energy storage due to the abundance, low cost, and wide availability of zinc resources. While optimizing electrode and electrolyte materials to achieve longer cycle life and higher energy density remains a key challenge, the collaboration between Hindustan Zinc and JNCASR is addressing this by developing low-cost electrolyte formulations and stable zinc-ion battery prototypes suitable for large-scale deployment. These advancements demonstrate the potential of zinc-ion batteries to support renewable energy storage safely and efficiently.

Through this collaboration, JNCASR researchers, supported by Hindustan Zinc, are developing low-cost electrolyte formulations and building zinc-ion battery pouch cell prototypes. The newly formulated electrolytes improve stability and enable longer cycle life. The prototypes have been evaluated under realistic testing conditions, such as solar energy capture and release profiles, demonstrating their suitability for renewable energy applications.

Highlighting the significance of the ongoing work, **Mr. Arun Misra, CEO and Whole Time Director, Hindustan Zinc Limited**, said: "Zinc-ion battery technology represents an important opportunity to leverage India's abundant zinc resources for the energy transition. Our partnership with the Jawaharlal Nehru Centre for Advanced Scientific Research reflects our commitment to enabling safe, cost-effective, and scalable energy storage solutions that can support the growing integration of renewable energy."

While zinc-ion batteries currently have lower performance metrics than lithium-ion batteries, they offer distinct advantages, including exceptional safety, lower material costs, and non-flammable aqueous electrolytes, key attributes for large-scale and long-duration deployment.

Dr. Prem Senguttuvan, Associate Professor at the Jawaharlal Nehru Centre for Advanced Scientific Research, also mentioned, "Zinc batteries hold immense promise for sustainable and secure energy storage. This partnership with Hindustan Zinc underscores JNCASR's commitment to impactful industry-academia collaborations. It will strengthen indigenous research capabilities and contribute to building reliable, India-centric solutions for the clean energy transition."

Hindustan Zinc aims to accelerate the shift toward sustainable energy solutions, as zinc plays a critical role across industries such as steel, renewable energy, battery storage, electrical and electronic components, and mobility. Through the development of next-generation zinc materials, and in partnership with JNCASR, the company is laying the foundation for a safer, greener, and more self-reliant energy future for India.

About Hindustan Zinc

Hindustan Zinc Limited (BSE: 500188 and NSE: HINDZINC), a Vedanta Group company, is the world's largest integrated zinc producer and is amongst the top 5 silver producers globally. The company supplies to more than 40 countries and holds a market share of about 77% of the primary zinc market in India. Hindustan Zinc has been recognized as the world's most sustainable company in the metals and mining category for the third consecutive year by the S&P Global Corporate Sustainability Assessment 2025, reflecting its operational excellence, innovation, and leading ESG practices. The company also became the first Indian company to join the prestigious International Council on Mining & Metals (ICMM) in 2025. The company also launched EcoZen, Asia's first low carbon 'green' zinc brand. Produced using renewable energy, EcoZen has a carbon footprint of less than 1 tonne of carbon equivalent per tonne of zinc produced, about 75% lower than the global average. Hindustan Zinc is also a certified 3.32 times Water-Positive company and is committed to achieving Net Zero emissions by 2050 or sooner. Transforming the lives of 2.3 million people through its focused social welfare initiatives, Hindustan Zinc is among the Top 10 CSR companies in India. As an energy transition metals company, Hindustan Zinc is pivotal in providing critical metals essential for a sustainable future.

Learn more about Hindustan Zinc on - <https://www.hzlindia.com/home/> and follow us on [LinkedIn](#), [Twitter](#), [Facebook](#), and [Instagram](#) for more updates.

For further information, please contact:

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