

Hindustan Zinc and Epiroc Partner to Drive Digital Safety in Mining

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CW Team

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COAL & MINING

Hindustan Zinc, India's only and the world's largest integrated zinc producer, has entered into a strategic partnership with Epiroc through a Memorandum of Agreement (MoA) to advance digital safety in mining operations.

As part of the collaboration, Epiroc's Collision Avoidance System will be rolled out in phases, starting with the Sindesar Khurd Mine in Rajasthan's Rajsamand district – one of the world's top five silver-producing mines. In the pilot stage, the system will be implemented on 30 Low Profile Dump Trucks (LPDTs), which are critical for efficient ore handling in underground mines. The technology provides continuous monitoring of vehicle surroundings, detects equipment and personnel in real time, and issues visual and audible alerts to enhance operator awareness and reduce risks.

The solution integrates proximity sensors, operator display units and wearable personal tags through a centralised platform, ensuring uninterrupted data capture and analysis for audits, compliance and decision-making. Designed with modular scalability, it combines early warnings, operator advisories and autonomous interventions to mitigate collision risks, improve efficiency and safeguard the workforce.

Arun Misra, CEO and Whole-time Director, Hindustan Zinc Limited, said, "Strategic metals like zinc, lead and silver are fundamental to the clean energy transition and modern technologies. As the world's largest integrated zinc producer, Hindustan Zinc embraces digital innovations that elevate safety while enhancing productivity. The

integration of Epiroc's Collision Avoidance System at mines will consolidate our commitment to operational excellence and technological leadership. This initiative will underpin further expansion of intelligent safety solutions across our operations, ensuring safe, smart and sustainable mining."

Helena Hedblom, President and CEO, Epiroc AB, added, "Our collaboration with Hindustan Zinc represents a landmark advancement in mining safety technology. The Collision Avoidance System exemplifies how digital innovation delivers proactive risk reduction through intelligent sensing, real-time alerts and autonomous vehicle control. We are proud to partner with Hindustan Zinc in deploying this adaptable, scalable solution that safeguards personnel while enhancing operational resilience. Together, we are establishing a global benchmark for safer, more efficient underground mining operations."

The project will be executed in two stages. Phase one will cover system installation, calibration, operator training and maintenance of 30 LPDTs at Sindesar Khurd Mine, while phase two will extend deployment across all of Hindustan Zinc's underground mines in Rajasthan.

The partnership builds on Hindustan Zinc's strong ESG track record. The company has been ranked the world's most sustainable metals and mining company for the second consecutive year by the S&P Global Corporate Sustainability Assessment 2024. In 2025, it also became the first Indian member of the International Council on Mining & Metals (ICMM).

With over five decades of expertise in the metals and mining sector, Hindustan Zinc continues to integrate advanced technologies, including automation, remote operations and precision monitoring, as part of its journey towards safe, smart and sustainable mining.