Confederation of Indian Industry

18th GLOBAL MINING SUMMIT 2026

Viksit Bharat@2047: Building a Tech driven, Secure and Circular Mineral Economy

07 – 08 December 2026

Eco Park, Kolkata (West Bengal), India

Programme Outline

Day 1: Monday 07th December 2026

1000 – 1100 hrs	**Inaugural Session**
1100 – 1145 hrs	**Inauguration of IMME Exhibition**
1145 – 1300 hrs	**Session 1: Critical Minerals: Exploration & Mining** *Critical minerals are essential to the global energy transition, technological advancement, industrial development, and national security. Their growing importance in renewable energy, electric mobility, electronics, and advanced manufacturing has intensified the need for efficient exploration, sustainable extraction, and secure supply chains. Advancements in geological mapping, exploration technologies, and mining practices are opening new opportunities to identify and develop mineral resources, to ensure long-term resource security and sustainable economic growth.* ***Session Focus*** ➢ *Strategic Importance of Critical Minerals in the global energy transition, technological advancement, industrial development, and national security.* ➢ *Identification and Prioritisation of Critical Minerals based on resource availability, economic significance, import dependence, and supply risks.* ➢ *Advancements in Geological Mapping and Mineral Exploration using geophysical surveys, geochemical analysis, remote sensing, GIS, and AI-enabled technologies.* ➢ *Innovative Exploration Techniques for discovering concealed, deep-seated, and unconventional mineral deposits.* ➢ *Policy, Regulatory, and Investment Frameworks to accelerate exploration, responsible mining, and private-sector participation.* ➢ *Research, Innovation, and Industry–Academia Collaboration to bridge technological gaps and strengthen critical mineral value chains.*
1300 – 1345 hrs	**Lunch Break**
1345 – 1500 hrs	**Session 2: Mining Equipment of the Future: AI, Automation & Intelligent Machines** *The mining industry is undergoing a significant transformation driven by advancements in Artificial Intelligence (AI), automation, robotics, and intelligent machinery. The adoption of smart mining equipment, autonomous vehicles, AI-enabled predictive maintenance, and real-time monitoring systems is creating opportunities to enhance operational efficiency, improve worker safety, optimise resource utilisation, and reduce environmental impact. As mining operations become increasingly technology-driven, the integration of digital solutions and intelligent machines will be critical to building safer, more productive, sustainable, and future-ready mining ecosystems.*

	Session Focus ➢ *AI and Automation in Mining Operations to enhance productivity, precision, operational efficiency, and decision-making across mining processes.* ➢ *Autonomous and Intelligent Mining Equipment, including driverless haul trucks, robotic drilling systems, automated excavation equipment, and smart material-handling solutions.* ➢ *Predictive Maintenance and Equipment Optimisation using AI, IoT-enabled sensors, real-time monitoring, and data analytics to minimise downtime and improve equipment performance.* ➢ *Smart Mining and Digital Technologies through digital twins, remote operations centres, connected machinery, and integrated mine management systems.* ➢ *Safety, Sustainability, and Environmental Performance through intelligent monitoring, automated safety systems, energy-efficient equipment, and reduced emissions.* ➢ *Challenges in Technology Adoption and Implementation, including investment requirements, infrastructure readiness, workforce reskilling, and integration with existing mining operations.* ➢ *Innovation and Industry Collaboration to accelerate the development, deployment, and adoption of next-generation mining equipment and intelligent technologies*.
1500 – 1515 hrs	**Tea Break**
1515 – 1615 hrs	**Session 3: Greening Mining Equipment: The Road to Low-Carbon & Sustainable Mining** *The mining industry is undergoing a significant transformation towards sustainable and low-carbon operations. Mining equipment plays a critical role in reducing carbon emissions, improving energy efficiency, optimising resource utilisation, and minimising environmental impact. The adoption of electric and hybrid machinery, renewable energy solutions, energy-efficient technologies, automation, and digitalisation is creating new opportunities for cleaner and more responsible mining. As the industry advances towards its sustainability goals, innovation in mining equipment, green technologies, and sustainable manufacturing practices will be essential to building a resilient, competitive, and environmentally responsible mining ecosystem.* ***Session Focus*** ➢ *Low-Carbon Mining Equipment and Technologies to reduce greenhouse gas emissions and improve energy efficiency across mining operations.* ➢ *Electrification and Alternative Energy Solutions, including battery-electric and hybrid mining equipment, hydrogen-powered technologies, and renewable energy integration.* ➢ *Sustainable Equipment Design and Manufacturing, focusing on energy-efficient machinery, resource optimisation, recyclability, and the use of sustainable materials.* ➢ *Digitalisation, Automation, and Smart Mining Solutions to optimise equipment performance, reduce fuel consumption, minimise operational waste, and enhance productivity.* ➢ *Retrofitting, Modernisation, and Lifecycle Management of Mining Equipment to extend equipment life, improve operational efficiency, and reduce environmental impact.* ➢ *Policy, Investment, and Industry Collaboration to accelerate the adoption of green mining technologies, promote indigenous manufacturing, and advance India's transition towards sustainable mining.*

1615 – 1715 hrs	**Session 4: Critical Minerals Processing, Refining and Recycling** *Strengthening critical minerals processing, refining and recycling capabilities is essential to reducing import dependence and enhancing domestic value addition. This includes recovering critical minerals from mine tailings, industrial residues, end-of-life batteries and electronic waste, alongside recycling and developing rare earth permanent magnets. Advancing sustainable technologies and circular resource practices will strengthen supply chain resilience and support clean energy transition and strategic manufacturing ambitions.* ***Session Focus*** ➢ *Reducing import dependence through domestic processing and refining capabilities.* ➢ *Recovering critical minerals from mine tailings, industrial residues, end-of-life batteries and electronic waste.* ➢ *Promoting recycling and indigenous development of rare earth permanent magnets.* ➢ *Enhancing supply chain resilience to support clean energy transition, strategic manufacturing and self-reliance.*
End of Day 1	

Day 2: Tuesday 08th December 2026

1000 – 1100 hrs	**Session 5: The Future Mining Workforce: Skills for a Technology-Driven Equipment Industry** *The future of the mining equipment industry depends on a skilled, adaptable, and technology-ready workforce. This session will focus on developing capabilities to support automation, digitalization, electrification, and smart mining operations.* ***Session Focus*** • *Adoption of automation, AI, digitalization, and smart mining technologies* • *From Make in India to Make for the World* • *Operation of autonomous, remote-controlled, and digitally connected equipment* • *Predictive maintenance, diagnostics, and data-driven asset management* • *Electrification, battery technologies, and energy-efficient equipment operations* • *Workplace safety, cybersecurity awareness, and human-machine collaboration* • *Reskilling and upskilling of operators, technicians, and engineers* • *Industry-academia partnerships for future-ready training and certification* • *Leadership, problem-solving, communication, and adaptability skills* • *Attracting, developing, and retaining talent for the mining equipment sector* • *Building a resilient and future-ready mining workforce ecosystem*
1100 – 1200 hrs	**Session 6: Mining the Future: Sustainability, Technology & Innovation** *The evolving landscape of the mining industry relies on sustainability, technology, and innovation to shape responsible resource extraction. The importance of adopting advanced technologies, improving operational efficiency, minimizing environmental impact, and promoting sustainable practices to meet growing global resource demands while safeguarding the future.* ***Session Focus***

	• ***Responsible Resource Extraction:*** *Balancing growing global resource demands with environmental protection and social responsibility.* • ***Environmental Sustainability:*** *Minimizing environmental impacts through responsible resource extraction, waste management, and ecosystem conservation.* • ***Adoption of Advanced Technologies:*** *Leveraging automation, artificial intelligence, digitalization, and smart mining solutions to enhance productivity and safety.* • ***Operational Efficiency:*** *Optimizing resource utilization, reducing operational costs, and improving mining processes.* • ***Energy and Resource Efficiency:*** *Promoting renewable energy, water conservation, and energy-efficient mining operations.* • ***Innovation in Sustainable Mining:*** *Exploring innovative practices and solutions for cleaner, safer, and more efficient mining.* • ***Advancing sustainable technologies*** *and circular economy practices for efficient resource utilization.*
1200 – 1300 hrs	**Session 7: Panel Discussion with Swedish Mining Solution Providers**
1300 – 1400 hrs	**Networking Lunch**
1400 – 1500 hrs	**Session 8: Session on Coal Gasification: Technology, Equipment & the road to a new coal economy** *The session will explore emerging gasification technologies, equipment requirements, indigenous manufacturing capabilities and engineering solutions needed to scale up coal gasification projects in India. It will also examine the role of technology providers, equipment manufacturers and EPC companies in addressing challenges related to efficiency, cost competitiveness and large-scale deployment, while identifying opportunities to strengthen domestic capabilities and build a robust ecosystem for coal gasification.*
1500 – 1515 hrs	**Tea Break**
1515 – 1615 hrs	**Session 9: Driving diversity Equity & Inclusion in Mining Industry** *The mining industry stands at a pivotal juncture, where sustainable growth, innovation, and operational excellence must go hand in hand with Diversity, Equity & Inclusion. As the sector evolves, fostering a diverse workforce, ensuring equitable opportunities, and building inclusive workplaces are essential to unlocking talent, strengthening safety, and driving long-term business success.* ***Session Focus*** • ***Building a Diverse Workforce:*** *Attracting, retaining, and developing talent across gender, generations, cultures, and backgrounds.* • ***Promoting Equity and Equal Opportunities:*** *Ensuring fair access to recruitment, career progression, leadership roles, and professional development.* • ***Fostering Inclusive Workplaces:*** *Creating respectful, supportive, and discrimination-free environments where every employee feels valued and empowered.* • ***Strengthening Safety and Well-being:*** *Integrating DE&I into workplace safety, mental health, employee well-being, and the design of inclusive working conditions.* • ***Driving Women's Participation and Leadership:*** *Addressing barriers to women's entry, retention, and advancement in mining operations and leadership positions.* • ***Leveraging Innovation and Technology:*** *Using digitalisation, automation, and inclusive workplace design to broaden participation and improve accessibility.* • ***Measuring Impact and Accountability:*** *Establishing clear DE&I goals, tracking progress, and translating commitments into measurable outcomes.* • ***Strengthening Business Sustainability:*** *Demonstrating how inclusive practices contribute to talent retention, operational excellence, innovation, and long-term business resilience.*

	• ***Sharing Best Practices and Actionable Solutions:*** *Highlighting industry success stories, addressing implementation challenges, and identifying practical steps to accelerate DE&I across the mining value chain.*
1615 – 1715 hrs	**Session 10: Buyer - Seller Meet** *Roadmap for mining sector in India – perspectives from major mining companies on future business plans, technology and equipment requirements over the next 3-5 years.*
Close of the Summit	

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