



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

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## **PRESS-RELEASE**

### **Leading Industry Experts Academicians, and Thought Leaders Delve Deep into Pressing Issues Shaping the Future of Mining, Energy, and Sustainability at IIT (ISM) Dhanbad as Part of Industry Institute Interaction 2025 (III-2025) Organized on Smart Mining, Critical Minerals, and Green Energy**

Leading industry experts, academicians, and thought leaders from across the country and abroad gathered at IIT (ISM) Dhanbad today to discuss and deliberate on pressing issues shaping the future of mining, energy, and sustainability. The workshop, held at the Penman Auditorium, was organized by IIT (ISM) in association with TEXMiN as part of Industry Institute Interaction 2025 (III-2025).

The event explored a wide array of topics including futuristic mining technologies, collision prevention systems, global trends in critical minerals, India's position in the global landscape, and strategies for achieving net-zero emissions. Emphasis was placed on innovative solutions for renewable energy, decarbonization, and corporate sustainability in the context of the mining sector.

A special highlight of the day was the inauguration of an R&D Fair, where various departments and research centers at IIT (ISM) presented their pioneering technologies and advancements in smart mining, critical minerals, and green energy. The event also marked the launch of several Centers of Excellence (CoEs) established through MoUs, Letters of Collaboration (LoC), and Letters of Intent (LoI) between IIT (ISM), TEXMiN, and various industry and academia partners, including startups.

**Keynote Address:** Dr. BVR Mohan Reddy, Padma Shree awardee and Founder Chairman of Cyient, delivered the chief guest address, emphasizing India's role as the largest and fastest-growing economy, soon to become the third-largest globally by 2028. He stressed the need to significantly increase per capita GDP, currently at \$2500, to the level of developed nations, which averages around \$60,000. Dr. Reddy also called for stronger industry-academia collaboration and encouraged industries to engage in riskier, more groundbreaking research.

#### **Guest Speakers:**

**Prof. Amit Patra**, Director of IIT BHU, underscored the importance of collaboration and announced increased funding for joint research projects.

**Mr. Ajit Kumar Saxena**, CMD of MOIL India Limited, highlighted the vital role of critical minerals in achieving green energy and net-zero emissions goals.

**Prof. AK Mishra**, Director of CSIR CIMFR, emphasized mining's vital contribution to economic development while advocating for a change in the public perception of the industry.

**Prof. VMSR Murthy**, Director of IEST Shibpur, discussed the integration of topics like smart mining, critical minerals, and green energy into academic curricula to prepare students for future challenges.

**Prof. Prem Vrat**, Chairman of the Board of Governors, IIT (ISM), who joined via video conferencing, advocated for a greater focus on underground mining, which is less polluting compared to open-cast mining.

**Prof. Sukumar Mishra**, Director of IIT (ISM) and Patron of III-2025, who delivered the welcome address carried out the context setting by emphasizing the importance of critical minerals for national security, economic growth, and the transition to a low-carbon economy. He also outlined the purpose of III-2025, which serves as a platform for fostering innovation and collaboration in these critical sectors through knowledge exchange and interactive sessions.

This event is a significant step in advancing the discourse on smart mining, renewable energy, and sustainable practices within the industry, further cementing IIT (ISM) Dhanbad's role as a leader in research and development in these areas.

Rajni Singh

**Dean (Corporate Communications)**