



# भारतीयप्रौद्योगिकीसंस्थान (भारतीयखनिविद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

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## **PRESS RELEASE**

### **TEXMiN-IIT (ISM) Dhanbad forges ties with iCEM-GMDC for innovation and skill development in Mining**

TEXMiN (Technology Innovation in Exploration & Mining) Foundation of IIT (ISM) signed MoU with iCEM (International Centre of Excellence in Mining Safety and Automation)-the innovation arm of GMDC on December 2, 2023 for innovation and skill development in Mining.

The primary objective of this MoU is to create a broad based collaboration between TEXMiN and iCEM essentially to evaluate and develop new-age technologies like Mining 4.0, AI and Digitalisation, for the benefit of mining operations. Further, development of skills needed by miners of the future is also an important area of focus.

GMDC's strategic focus on sustainable mining combined with its ambitious growth plans, and TEXMiN's objective of developing and deploying IT and digitalisation based Cyber Physical Solutions to augment human capabilities makes a perfect case for both the organisations to join hands to unlock synergies. The collaboration is in line with the need to leverage technologies, prepare human resource and talent, and develop skills across GMDC, its partner ecosystem as well as the larger mining community.

Technology Innovation in Exploration & Mining Foundation (TEXMiN) is a Section-8 company created under the aegis of the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) by the Department of Science and Technology, Govt of India established at IIT (ISM) Dhanbad. The Director, IIT (ISM) Dhanbad is the Chairman of the Board. The objective of TEXMiN is the development of commercially feasible solutions in the mineral exploration and mining domains using cyber-physical systems.

Promoted by GMDC as a Society and not for profit Trust, iCEM has a vision to be India's leading institute for enabling sustainable mining. iCEM aims to catalyse growth of the mining sector, helping it become more efficient, safe and sustainable. Recognising the global shift towards critical minerals, sustainable mining, net zero goal, and digitalisation, iCEM operates at the intersection of innovation, sustainability, and collaboration. The signing ceremony, held today, witnessed the exchange of the signed MoU documents by Prof. Dheeraj Kumar, Deputy Director, IIT(ISM) Dhanbad & Director, TEXMiN, and Mr. Anupam Jalote, CEO of iCEM. The occasion was graced by the presence of Chief General Manager - Mr. Lavanya Kulshrestha and the leadership team of GMDC and iCEM.

Prof Dheeraj Kumar, Dy Director IIT(ISM) and Director, TEXMiN said, "The mining industry has a critical role to play in supporting mining communities to develop the skills needed to fully participate in the digital economy of the future.

Academia and Industry collaboration like this between iCEM GMDC-TEXMiN IIT (ISM) will help Indian Mining and Metal Companies in their current reskilling and upskilling programs on digital transformation and build the workforce for the future and further help achieve 3S (Safe, Smart, Sustainable) through operation & process optimization.

Shri Roopwant Singh IAS, Chairman of iCEM and Managing Director of GMDC, expressed his enthusiasm for this collaboration, saying, "GMDC is delighted that its iCEM is collaborating with IIT (ISM) - TEXMiN. This partnership is momentous as it brings the power of technology, academia, and domain expertise to help us realise our ambitious

growth plans. We believe this partnership will bring tangible benefits to both organisations and the broader mining community".

Rajni Singh

**Dean (Media & Branding)**