NATIONAL SEMINAR TECHNOLOGICAL ADVANCEMENTS FOR SUSTAINABLE MINING AND EXPLORATION

TASME - 2025

31st JAN - 1st FEB, 2025



VENUE: CSIR - CIMFR, DHANBAD





JOINTLY ORGANIZED BY





CSIR-Central Institute of Mining and Fuel Research, Dhanbad

Mining Geological and Metallurgical Institute of India, Dhanbad Chapter

INTRODUCTION

The Indian mining sector has continuously faced challenges in optimizing resource extraction and utilization due to deep mine workings, limited mechanization, small-scale operations, stringent safety and environmental regulations, poor infrastructure planning and surface rights management. With India's adoption of the United Nations' Sustainable Development Goals (SDGs), mining companies now face the imperative to align their strategies with environmental, social and economic objectives and also require a paradigm shift towards technologically advanced, sustainable and productive mining practices. Globally, there have been remarkable innovations in mining methods, mechanization, management and safety, all aimed at improving capability, efficiency and reliability. These advancements are critical for addressing the challenges of sustainable mining and exploration, particularly in overcoming India's geo-mining constraints, while ensuring environmental and social responsibility.

In this context, the CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR), Dhanbad and the Mining Geological and Metallurgical Institute of India (MGMI - Dhanbad Chapter), are jointly organizing a National Conference on "Technological Advancements for Sustainable Mining and Exploration" (TASME-2025) from January 31st to February 1st, 2025, at CSIR-CIMFR, Dhanbad. This conference will serve as a vital platform for interactions and discussions among stakeholders, focusing on how technological innovations can drive sustainable practices in mining and exploration. It aims to highlight the latest advancements in mining research and explore their applications in shaping the future of the Indian mining industry.

THEMES OF THE SEMINAR

The seminar will focus on sustainable advancements in mining and exploration as well as related subjects, covering a wide range of areas including:

- Earth Science and Exploration
- GIS and Remote Sensing Applications
- Rock Mechanics, Ground Control and Subsidence
- Mass production in Underground Coal and Metal Mining
- Green and Emerging Mining Methods
- Explosive and Rock Blasting Techniques
- Stabilization of Rock and Dump Slopes
- Mine Ventilation, Fire Prevention and Dust Control
- Coal Bed Methane: Estimation, Recovery and Utilization
- Application of AI, ML and IoT in Mining
- Environmental Management and Responsible Mining
- Mining Machinery and Mine Safety Equipment
- Advancements in Characterization, Beneficiation and Utilisation of Coal and Mineral

VENUE & DATE

The seminar will be held at CSIR-CIMFR Auditorium, Barwa Road, Dhanbad, Jharkhand-826 001 (India) From 31st January to 1st February, 2025.

CALL FOR PAPERS

Authors are invited to submit abstracts in English (maximum 400 words) on the seminar topics of TASME-2025. The abstract should be concise, without any diagrams, charts, or footnotes and must emphasize the purpose of the study, principal results and key conclusions. The paper should be sent at mgmidhanbadchapter@gmail.com.

IMPORTANT DATES AND DEADLINES

Abstract submission latest by : 30th November, 2024
Abstract acceptance notification latest by : 4th December, 2024
Full paper submission latest by : 10th January, 2025
Acceptance notification of full paper latest by : 14th January, 2025

REGISTRATION AND DELEGATION FEE

₹ 15,000 + GST@18% : Corporate Bodies/Industries/PSUs

₹10,000 + GST@18% : Authors/MGMI Members (Sponsored)/R&D Organizations/

Academic Institutions/Govt. Departments/MSMEs/Research Scholars

₹ 5,000 + GST@18% : Self-funded MGMI Members/Research Scholars/Students

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The Corporate Bodies, Industries, Research and Academic Institutions are invited to sponsor the event with the tariff as given below:

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EXHIBITION

Exhibiting with TASME-2025 is an excellent opportunity to distribute your Company's information and network with global participants, industry leaders and policy makers. You are requested to book an Exhibition Stall in the seminar to showcase the capabilities of your Company. The tariff details for each stall are given below:

EXHIBITION STALL SIZE	BEFORE 31ST DEC 2024	AFTER 31ST DEC 2024
3 M (W) × 3 M (L)	₹ 50,000 + GST%18%	₹ 60,000 + GST%18%
6 M (W) × 3 M (L)	₹75,000 + GST@18%	₹ 90,000 + GST@18%

Tariff includes adequate spot lights, plug point 5/15 amp, one info counter, two chairs, waste bin, carpet fascia with vinyl lettering. Free lunch, dinner and cultural program pass for two persons.

MODE OF PAYMENT

All payments are to be made either through online transfer or by demand draft/account payee cheque drawn in favour of MGMI Dhanbad Chapter payable at Dhanbad.

The bank details are as follows:

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CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR): CSIR-CIMFR, a premier research laboratory under the Council of Scientific and Industrial Research (CSIR), Ministry of Science & Technology, Government of India, is dedicated to providing R&D solutions across the entire coal energy chain, from exploration to mining and utilization, encapsulated in its mission "Mine to Market." The institute is tasked with developing safe, innovative and economically viable technologies while leveraging its vast knowledge base to align with national missions and industry needs.



CSIR-CIMFR also plays a pivotal role in supporting the development of mineral-based industries to meet the country's production targets and ensure energy security. Additionally, the institute serves as a third-party evaluator for thermal coal quality assurance, as assigned by the Ministry of Coal, thermal power units and coal companies. Since its inception, CSIR-CIMFR has also been a key testing and research facility, contributing significantly to mine safety under the Ministry of Labour and Employment. Strategically located in Dhanbad, Jharkhand—known as the Coal Capital of India—the institute is at the heart of India's mining industry, advancing both technological innovation and industrial growth in the sector.

Mining Geological and Metallurgical Institute of India Dhanbad Chapter: The MGMI is committed to advancing and safeguarding the interests of the mineral industries while promoting the welfare of those working within the sector. It also strives to uphold ethical practices across the professions of geology, mining, metallurgy and other related fields that play a crucial role in the country's mineral industry. To fulfill these objectives, MGMI actively fosters the dissemination of knowledge and information in geology, mining and metallurgy.



It organizes a wide range of activities including technical lectures, discussions, seminars, conferences, technical meetings and field tours. Furthermore, MGMI supports the publication of journals, transactions, newsletters and scientific research, ensuring that professionals remain informed about the latest advancements and trends in the industry. Headquartered in Kolkata, MGMI operates through 18 branches across India, including the Dhanbad Chapter, which plays a pivotal role in promoting the MGMI's goals. These regional chapters serve as vital hubs for collaboration and knowledge-sharing, working towards the growth and sustainability of the mineral industries in their respective regions.



MGMI