



(GJMIC - 2025)



GOLDEN JUBILEE

MINING INNOVATION CONCLAVE



Deshpande Auditorium



15th - 16th November, 2025



Organised By :
Department of Mining Engineering
BIT Sindri, Dhanbad



BIT Sindri is situated near Dhanbad in Jharkhand. BIT Sindri is one of the premier engineering institutions in Eastern India and is fully residential. The institute was established in 1949 by the Government of Bihar to meet the demand for trained technical manpower in the fields of engineering, industry, and research, with a special focus on serving the needs of the mineral-rich region.

Since its inception, BIT Sindri has steadily grown into a reputed center of technical education and research. The institute offers B.Tech. programs (4 Years) in various engineering disciplines, M.Tech. programs (2 Years), and research opportunities at the doctoral level.

BIT Sindri has made significant contributions to industries across India. Over the years, its alumni have excelled in diverse fields, carrying forward the institute's legacy of technical excellence and service to the nation. It has the glaring achievements of producing gems – the alumni excelling in their spread all over the globe, holding top positions in several reputed scientific and technological organisations of the nation and abroad. It has the confidence -The vision taking shape in the 22nd century. The institute is under the aegis of Department of Higher Technical Education & Skill Development, Government of Jharkhand.

ABOUT THE DEPARTMENT



The Department of Mining Engineering, BIT Sindri, has successfully completed 50 years of excellence in mining education, research, and consultancy. Over the decades, it has built a curriculum aligned with the evolving needs of the mining and allied industries, both nationally and globally. The department is equipped with state-of-the-art laboratories in Rock Mechanics, Mine Ventilation, Mine Environmental Engineering, Mine Systems, Mine Machinery, and Mine Planning & Design, along with specialised facilities such as the Data Analytics Laboratory and the Coal Characterisation Laboratory. It also houses the Mining Analytical Research Centre (MARC), established with the support of the Department of Higher Technical Education, Government of Jharkhand, to strengthen advanced testing, analysis, and R&D activities in mining and coal characterisation. In 2024, the department introduced a new M.Tech program in Environmental Engineering, reflecting its commitment to sustainable and environmentally responsible mining practices.

The department is a pioneer in establishing a Centre of Excellence under the TeXMin Hub (DST, Government of India), functioning as a Zonal Centre of Excellence (CoE) for innovation and industry-academia collaboration. In 2025, the Ministry of Coal, Government of India, recognized the department as a Third-Party Agency (TPA) for referee sample gradation of coal, further consolidating its national significance. Additionally, the Government of Jharkhand has approved the construction of a new departmental building, boosting infrastructure for future growth.

Strategically located in the heart of India's coal belt, the department engages actively with BCCL, CCL, ECL, CMPDIL, CIMFR, IIT(ISM) Dhanbad, TATA Steel, SAIL, and NML, enabling students and faculty to work closely with leading industries and research bodies.

With its legacy of 50 years and expanding infrastructure, the department continues to drive innovation, consultancy, and sustainable mining practices, while preparing future-ready professionals for global mining challenges.

BACKGROUND OF THE CONCLAVE

The Golden Jubilee Mining Innovation Conclave (GJMIC 2025) and Exhibition mark a milestone event as the Department of Mining Engineering, BIT Sindri, celebrates 50 years of academic excellence and industry engagement. The conclave serves as a premier platform for alumni, industry leaders, technology providers, policymakers, and researchers to exchange ideas on the transformation of the mining sector in India and beyond. The conclave is designed as a unique blend of knowledge sessions, industry exhibitions, and alumni engagement, highlighting the legacy of BIT Sindri while showcasing the future of mining in India. It will feature the **Damodar Valley Memorial Lecture Series**, distinguished expert talks, alumni reflections, and panel discussions on cutting-edge themes such as Mining 4.0, Artificial Intelligence in Mining, Sustainable Mining Practices, and Digital Transformation. The event emphasises the evolving challenges of modern mining—ranging from digital transformation and automation to environmental sustainability and social responsibility. By showcasing the opportunities of Mining 4.0, Artificial Intelligence, data-driven decision-making, and advanced safety technologies, the conclave highlights the pathways for safer, smarter, and more sustainable mining practices. Key sessions will explore strategies to integrate AI and machine learning into mineral exploration, production optimisation, and hazard management, while also addressing issues of worker safety, risk minimisation, and energy efficiency. Alumni reflections and expert lectures will highlight the journey of five decades in the department while projecting the future of mining innovation and collaboration. The accompanying industry exhibition will feature cutting-edge equipment, digital tools, environmental monitoring systems, and safety solutions, alongside departmental stalls showcasing consultancy services and R&D capabilities. This creates an interactive space where academia, industry, and technology suppliers converge to forge meaningful partnerships. By fostering collaboration, innovation, and knowledge sharing, GJMIC 2025 will strengthen India's mining sector in meeting the twin goals of economic growth and sustainable development, while laying a roadmap for the next 50 years of BIT Sindri's leadership in mining education, research, and industry service.



DISCOURSE OF THE CONCLAVE

The Golden Jubilee Mining Innovation Conclave 2025 (GJMIC 2025) is designed as a flagship platform for academia, industry, alumni, policymakers, and students to engage in meaningful dialogue on the evolving frontiers of mining. It combines distinguished lectures, panel discussions, and an industry exhibition, celebrating 50 years of departmental excellence while charting the roadmap for the next 50.

The discourse will broadly cover the following areas:

- **Mining 4.0 and Digital Transformation:** IoT, cloud, AI, machine learning, and big data for real-time mine optimisation, safety, and decision-making.
- **Automation & Robotics:** Autonomous drilling, blasting, haulage, and swarm robotics for challenging mining environments.
- **AI and Machine Learning Applications:** Predictive analytics for mineral targeting, grade control, slope stability assessment, and mine fire prediction.
- **Critical Minerals for Future Energy & Technology:** Exploration, beneficiation, and supply chain management of rare earth elements, lithium, cobalt, and other strategic minerals essential for renewable energy and digital infrastructure.
- **Geotechnical & Ground Stability:** Innovations in support systems, monitoring technologies, and slope stability management for both opencast and underground mines.
- **Mine Planning, Closure & Reclamation:** Modern approaches to mine life-cycle management, including sustainable mine closure strategies, land reclamation, and ecological restoration.
- **Sustainability & Net-Zero Pathways:** Carbon footprint reduction, methane management, water treatment, and energy efficiency initiatives for a greener mining future.
- **Health, Safety & Disaster Resilience:** Risk assessment, occupational health, safety management systems, and digital resilience strategies.
- **Ventilation & Mine Cooling Systems:** Adaptive designs for airflow optimization, energy-efficient mine cooling, and environmental monitoring.
- **Coal Quality Assessment & Utilisation:** Comprehensive focus on coal testing, beneficiation, and efficient utilisation from mines to market.
- **Policy, Regulation & Industry Collaboration:** Evolving regulatory frameworks, industry-academia partnerships, and strategies for sustainable resource management.

By uniting legacy expertise with emerging technologies, GJMIC 2025 aims to foster collaborations, innovations, and partnerships that will transform mining into a smarter, safer, and more sustainable enterprise.

PARTICIPATION

The Golden Jubilee Mining Innovation Conclave (GJMIC 2025) invites participation from engineers, managers, planners, policymakers, researchers, academicians, alumni, suppliers, and students. The conclave provides a platform for industry-academia collaboration, featuring expert lectures, panel discussions, and exhibitions on Mining 4.0, automation, AI, sustainability, mine planning, closure, reclamation, and coal quality utilisation. Participants will engage in knowledge-sharing, strategic dialogue, and exposure to cutting-edge technologies and best practices. By fostering interaction among alumni, industry leaders, and academia, the conclave aims to create lasting partnerships, promote consultancy opportunities, and build capacity for a smarter, safer, and sustainable mining future.

REGISTRATION & PARTICIPATION/DELEGATION FEES

Conclave Participation	Early Bird Delegation Fees Up To 05.11.2025 INR Excluding GST	Delegation Fees After 05.11.2025 INR Excluding GST
Corporate And Industrial Bodies	6000	8000
Academicians And Researchers	5000	7000
Students / Research Scholars	2500	3500

(excluding GST@18%)

The registration form is annexed as a separate sheet

SPONSORSHIP AND PROMOTIONAL OPPORTUNITIES

The corporate entities, industrial bodies may sponsor and support the event by paying the applicable charges listed below

Category	Charges (excluding GST)	No. of free delegates
Diamond Sponsor	INR 10,00,000	12
Gold Sponsor	INR 7,00,000	8
Silver Sponsor	INR 5,00,000	5
Bronze Sponsor	INR 3,00,000	3
Full conclave kit sponsors	INR 8,00,000	10

Sponsors will be duly acknowledged throughout the event and will be given the opportunity to showcase and distribute their promotional materials.

SOUVENIR ADVERTISEMENT FEES

A souvenir will be brought out and circulated widely during the conclave. Advertisements for the souvenir are invited at the following rates

Category	Charges (excluding GST)
Back cover	40,000/-
Front inside	25,000/-
Back inside	25,000/-
Full page	15,000/-
Half page	10,000/-

EXHIBITION

The Golden Jubilee Mining Innovation Conclave (GJMIC 2025) is not just a celebration — it is a unique platform that offers unparalleled exposure and collaboration opportunities. With a vibrant campus community of over 4,000 students and more than 100 faculty members across engineering disciplines, the event promises a significant footfall and a highly engaged audience. The interactive nature of the event, with opportunities for product demonstrations, brand visibility, and business networking, ensures that every participant can actively engage and contribute to the event's success. The conclave will be attended by industry leaders, alumni, researchers, policymakers, and technology providers, creating a dynamic environment for product demonstrations, brand visibility, and business networking. The exhibition segment offers an exceptional opportunity for companies to:

- Showcase mining machinery, safety equipment, digital tools, and innovative services directly to potential clients and collaborators.
- Engage with academia for joint research, consultancy, and sponsored projects.
- Interact with students and faculty, identifying talent for internships, placements, and training programs.
- Build brand recognition among the next generation of engineers and future decision-makers.

Participation Charges

- INR 40,000/- per stall (excluding GST)
- Standard stall size: 10 ft × 12 ft with basic amenities (partition, table, chairs, power supply, cleaning, etc.)
- Open space for large pieces of equipment is available upon request at an additional cost.
- Early birds will have the opportunity to present their products and services in a separate session before industry and academic professionals

BANK DETAIL FOR PAYMENT

NAME	Golden Jubilee Mining Innovation Conclave - 2025
BANK NAME	STATE BANK OF INDIA
ACCOUNT NUMBER	44450714991
IFSC	SBIN0011812

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GOLDEN JUBILEE MINING INNOVATION CONCLAVE (GJMIC - 2025)



REGISTRATION FORM



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Organisation:.....

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.....Pin Code.....

E-mail:.....

Phone.....Mobile.....

Sponsored by:.....

Please tick() whichever is applicable:

- Intend to attend the Seminar as a Participant/Delegate
- Intend to sponsor.....no (s) Participants/Delegates
- Interested in Diamond Sponsorship
- Interested in Gold Sponsorship
- Interested in Silver Sponsorship
- Interested in Bronze Sponsorship
- Interested to advertise in Souvenir of the Workshop

Back Cover (colour)

Inside Front Page Cover (colour)

Inside Back Page Cover (colour)

Full Page (colour)

Half Page (colour)

- Booking of Exhibition stall / hard floor space

Enclosed Bank Draft/Cheque No.dated.....

For Rs.....drawn on.....

Payable at Dhanbad in favour of ".....".

Date:

Signature of Sponsoring
Organisation with seal

Signature of Participant
/Delegate