

The Institution of Engineers (India)

A Century of Service to the Nation

**Thirty-fifth National Convention of Mining Engineers
and National Seminar**

on

Mining and Environment- Quo Vadis -2070

November, 7-8, 2025

Venue

Indian Institute of Technology (Indian School of Mines) Dhanbad

Organised by



**The Institution of Engineers (India)
DHANBAD LOCAL CENTRE**

**Under the Aegis of
Mining Engineering Division Board, IEI**

In Association with

**Indian Institute of Technology (Indian School of Mines), Dhanbad
Celebrating 100 Years of Mining Education (1926-2026)**

**Directorate General of Mines Safety, Dhanbad
Central Institute of Mining and Fuel Research, Dhanbad**



**IIT (ISM)
DHANBAD
1926-2026**





About The Institution of Engineers (India)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 2.6 lakhs. Established in 1920, with its headquarter Kolkata, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities. IEI has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and besides conducting its' own research, provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities.

IEI holds the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The institution also awards the Professional Engineers (PE) Certification. IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

About IEI Dhanbad Local Centre

The Institution of Engineers (India) Dhanbad Local Centre is ideally located in heart of Dhanbad District of Jharkhand, the Coal Capital of India. It is having association and support of top most Engineering and Research Organizations of the Country like IIT (ISM), Dhanbad, DGMS, CSIR-CIMFR, BCCL, Tata Steel, SAIL, BIT-Sindri, ACC-Sindri, PDIL-Sindri, DVC etc which are located within a radius of 50 km from Office of Dhanbad Local Centre. The Centre came in existence in 1962 with support of over 700 Engineers of various Engineering Discipline to serve the society by imparting engineering education to the level of AMIE equivalent to B. Tech degree. Presently Corporate Membership Strength is about 1134. Various technical activities previously organized by this Centre were National Convention of Mining Engineers, Chemical Engineers, & Environmental Engineers, National Seminar and Workshop besides the local technical activities like World Engineering Day, World Water Day, World Telecommunication & Information Society Day, World Environment Day, Royal Charter Day, Engineers Day, World Habitat Day, Energy Conservation Day, etc. Engineers of almost all the engineering disciplines with rich knowledge and vast experience and expertise in diversified field of engineering are available to share their knowledge from the common platform of the Institution of Engineers for Socio Economic Development of this region. Website: www.iedhanbad.org

About Supporting Organizations

Indian Institute of Technology (Indian School of Mines), Dhanbad is the premier mining institute established in 1926. The Centre for Mining Environment, established by MOEFCC in 1987, to cater skilled human resources and conduct research in environmental issues of mining townships and cities. (<https://ese.iitism.ac.in>). The IIT(ISM) EIACP (PC-RP) Centre (erstwhile ENVIS Centre), was established in the year 1991 by the Ministry of Environment, Forests & Climate Change, Government of India. The Department of Environmental Science and Engineering was created out of the Centre in 2006. Currently the Department offers B.Tech (through IIT JEE Advanced); M.Tech (through GATE) and Ph.D (through NET/GATE).

The Directorate General of Mines Safety (DGMS) Dhanbad (Estt. 1908) is a key organization responsible for ensuring the safety of mines and miners in India. Located in the coal-rich region of Jharkhand, DGMS plays a vital role in regulating mining activities, implementing safety protocols, and enforcing compliance with the Mines Act, 1952. It focuses on preventing accidents, enhancing workers' welfare, occupational health and promoting safe mining practices.

The CSIR-Central Institute of Mining and Fuel Research (CIMFR), Dhanbad, a constituent laboratory under the aegis of Council of Scientific and Industrial Research (CSIR), New Delhi aims to provide R&D inputs for the entire coal-energy chain encompassing exploration, mining and utilization. The laboratory also strives to develop mineral based industries to reach the targeted production for country's energy security and growth with high standards of safety, economy and cleaner environment.



About the Theme

MINING AND ENVIRONMENT – QUO VADIS-2070

The theme explores the critical intersection of mining practices and environmental sustainability, envisioning the trajectory of both sectors over the next five decades. As global demand for mineral resources continues to grow, the environmental impact of mining remains a pivotal concern. This convention and national seminar aims to address the evolving challenges of balancing economic growth with environmental responsibility, considering technological advancements, policy frameworks, and community engagement. Discussions will focus on sustainable mining practices, innovations in resource extraction, critical and strategic minerals, rehabilitation and repurposing of mined out lands, just transition of energy sector and the integration of environmental stewardship within the mining industry for a harmonious coexistence between industry and the environment by 2070.

Experts from various fields will present insights into the future of mining, examining potential pathways towards a harmonious coexistence between industry and the environment by 2070. They will also retrospect 100 years of mining education and implemented technologies in India.

The event will also explore global efforts to mitigate climate change and biodiversity loss while ensuring that future mining activities meet the needs of the growing population. This seminar seeks to ignite critical conversations on forging a resilient, eco-conscious mining industry for future generations.

Sub Themes:

*New Mining Frontiers

1. Mining Methods, opencast mining, underground mining, metalliferrous, coal and minor minerals, oil mines, operational issues and solutions.
2. Innovations in Mining Technology, Advances in Automation, Robotics, Mine Electricals, Electronics and Equipment Design, Mining Machineries, Storage and evacuation, Mineral Transportation systems, conveyors, trucks, railways.
3. Digitalization in Mining, Leveraging AI, IoT, and Data Analytics for Improved Efficiency and Safety
4. Electric and Autonomous Vehicles in Mining, Benefits, Challenges, and Implementation Strategies
5. Sea Bed Mining, Placer Mining, technological bottlenecks

*New Minerals Exploration, Development, Exploitation and Conservation

1. Critical Minerals, strategic minerals, exploration, methods beneficiation, Indigenous Potential.
2. Rare Earth Elements, exploration, beneficiation
3. Geo-metallurgy and Ore Characterization, Advances in Analytical Techniques and Their Applications in Mining, beneficiation.

*Regulatory Developments

1. Recent regulatory developments, mine safety, disaster management, mine rescue, occupational health,
2. Auctioning mining leases- a way forward, land acquisition, Outsourcing Mining Activities, Mine Developer Operator, Roles and Responsibilities.
3. Regulatory clearances, Environmental Clearances of Mining Projects, Role of Centre and States, Pollution Control Boards.
4. Forest Clearance, Compensatory Afforestation, Fund Management, River diversion, Human-Animal Conflicts.

*Sustainable Mining Practices

1. Decarbonisation, Carbon Neutrality, Net Zero in Mining, Reducing Environmental Impact and Promoting Social Responsibility, Environment, Social Governance,
2. Mine Closure and Rehabilitation, Strategies for Effective Post-Mining Land Use and Community Engagement
3. Mining and Water Management, Strategies for Reducing Water Consumption and Mitigating Water-Related Risks
4. Mine Fill, Technologies in Paste Filling, Flyash Utilization, Overburden Management/Utilization, Landscape Design in Mining Projects
5. Diversity, Equity, and Inclusion in Mining, Strategies for Building a More Inclusive and Diverse Industry, addressing R&R, PAPs.
6. Circular Economy in Mining, Opportunities for Waste Reduction, Recycling, and the Recovery of Valuable Resources.
7. Occupational Health and Safety in Mining Industry, Role of Environmental Audit
8. Trends, Challenges, and Opportunities in the Face of Climate Change and Energy Transition, Just Transition in Coal and other Fossil Fuel.

*Human Resource Management in Mining Industry

1. Mining Education in India, Opportunities and Prospects, Human Resource Management in Mining Industry, Brain Drain, Human Capital Flight in Mining Industry
2. National Education Policy, Reforms, Role of Industry Institute Interaction, Skill Development



Call for Papers

Prospective authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the theme of the National Convention/Seminar but not limited to sub-themes listed above.

Authors should send an Abstract up to 250 words to **Email ID: iedhanbadlc@gmail.com**. The final paper should be in the format available on **website www.iedhanbad.org**. All presented papers will be included in the proceedings of the Convention/Seminar.

For Guidelines for Submission of Papers scan the QR Code

https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers



Important Dates

Last Date for submitting Abstracts	08 th September 2025
Intimation of Acceptance	12 th September 2025
Last Date for Submission of camera ready full paper with Registration Fee	30 th September 2025
Last Date for Advance Payment for Sponsorship, Advertisement, Expo	28 th September 2025
Seminar Dates	7-8 th November 2025

All communications for Technical papers, Sponsorship, Advertisement, Expo, etc are to be sent in the email ID: iedhanbadlc@gmail.com

Registration

APPLY NOW



<https://forms.gle/TFnQYJUUpEhfNcNi7>

All delegates and authors attending Convention/Seminar must register by filling registration form and by paying registration fees by electronics means as per following details:-

Delegates from Industries	₹ 10,000 + 18% GST
Delegates from R & D organization and Academic Institutions	₹ 7,000 + 18% GST
Corporate Members of IEI	₹ 6,000 + 18% GST
Students	₹ 3000 + 18% GST

₹ 1000/-extra with spouse.

Registration fee includes proceedings, souvenir, registration kit beside high tea, lunch and dinner.

Accommodation: Limited campus rooms (twin sharing)available on payment basis (Std Room Rs 1200/- + GST (Double Bed); Suite Rs 2000 + GST (King size Bed); On first come first serve basis. Nearby Hotels (within 3-5kms) are also available.

Sponsorship and Advertisement

Type	Amount	Privileges
Platinum	Rs 10,00,000/- + 18% GST	(10 Delegates Free)
Gold	Rs 7,00,000/- + 18% GST	(7 Delegates Free)
Silver	Rs 5,00,000/- + 18% GST	(5 Delegates Free)
Sponsor for Dinner	Rs 4,00,000/- + 18% GST per night	(4 Delegates Free)
Sponsor for Lunch	Rs 3,00,000/- + 18% GST per day	(3 Delegates Free)
Sponsor for Kits	Rs 5,00,000/- + 18% GST	(5 Delegates Free)
Sponsor for T-Shirts	Rs 5,00,000/- + 18% GST	(5 Delegates Free)

Advertisement

A Souvenir containing abstracts of keynote address, Memorial Lecture, State-of-Art Lecture, Invited talks and technical papers will be published during the Convention/Seminar. Tariff for advertisement in souvenir is as follows:-

Outside Back Cover Page (colour)	Rs. 1,00,000/- + 5% GST
Inside Front & Back Cover Page (colour)	Rs. 75,000/- + 5% GST
Inside Full Page (colour)	Rs. 50,000/- + 5% GST
Inside Full Page (B/W)	Rs. 25,000/- + 5% GST
Inside Half Page (B/W)	Rs. 15,000/- + 5% GST



Expo

An exhibition will be organized for various organizations for display of mining technology, equipment, instruments, software, etc.:-

Display of Posters per stall 10' x 10' x 10' for two days	Rs. 2,00,000/- + 5% GST
Display of Equipment, Models, Instruments per stall 10' x 10' x 10' for two days	Rs. 2,50,000/- + 5% GST

Last Date for Advance Payment for Sponsorship, Advertisement, Expo 28th September 2025

Payment

Payments can be made through crossed Demand Draft / At par Cheque drawn in favour of "The Institution of Engineers (India)," payable at Dhanbad Jharkhand . The payment can also be made online or UPI. For Bank Transfer

A/c No. : 10230776098

A/c Name : The Institution of Engineers (India), Dhanbad Local Centre

IFS Code : SBIN0001641

Branch : ISM Campus, Dhanbad.

MICR Code : 826002006

GSTIN No. : 20AAATT3439Q4Z5, The Institution of Engineers (India), Dhanbad Local Centre

PAN No. : AAATT3439Q ,The Institution of Engineers (India)



Venue & Accommodation

The IIT(ISM) Dhanbad, Jharkhand is 250kms away from Kolkata. The Dhanbad City is well connected by trains (Rajdhani, Shatabdi, Vande Bharat, and many express trains, etc). Dhanbad Railway Station is only 3km away from venue. Nearest Airports (Kazi Nazrul Islam, Durgapur (95km, 1hr, 45 Min), Birsamunda, Ranchi (164Km, 4 hrs, 30mins), Deoghar (108km, 3hrs). There are good hotels like Grand Mirage (Raddison), Cucoon, Sonotel, Lexus Inn and many others. The City has lot of places for tourism like Coal Mines, Maithon Dam, Panchet Dam, Garh Panchkot Hill (Resorts, near Panchet Dam), Topchachi Lake, Parasnath Hills, Ushri Falls, Bhatinda Falls, etc.

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MAITHON DAM



JHARIA COALFIELDS



TOPCHACHI LAKE



PARASNATH TEMPLE



PANCHET DAM



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CONTACT PERSON

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Registration Form

**35th National Convention of
Mining Engineers and National Seminar
on
MINING AND ENVIRONMENT-QUO VADIS -2070**

7th-8th November, 2025

Dhanbad Local Centre

Name (in block letters):

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Organization/Institution

.....

Designation.....

Postal Address:

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Email:

Please Tick the following :-

As Delegate : ☐ Yes ☐ No

Participating in Expo : ☐ Yes ☐ No

Paper accepted : ☐ Yes ☐ No

Consent for Field Trip on 9th Nov 2025 : ☐ Yes ☐ No

I/We enclose a Cash/UPI/NEFT details for Rs.

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Signature