



**Inauguration of IEST Shibpur-MEAI
Student Chapter
&
National Seminar
on
“CRITICAL”
(Critical Resources, Innovation &
Technology Integration for Circularity and
Advanced Low Carbon Transitions)**

20 June 2026

Venue: IEST Shibpur

**Organized by
Mining Engineers 'Association of India, Kolkata Chapter
in association with
Department of Mining Engineering,
Indian Institute of Engineering Science and Technology (IEST), Shibpur
&
Hindustan Copper Limited (HCL)**



ABOUT THE SEMINAR

Critical minerals in India are indispensable to the country's economic development, clean energy transition, advanced manufacturing, and national security, but are vulnerable to supply disruptions due to limited domestic reserves, import dependence, or geopolitical concentration. In 2023, the Ministry of Mines officially identified 30 critical minerals, including lithium, cobalt, nickel, graphite, rare-earth elements (REEs), and copper. These minerals form the backbone of emerging and strategic sectors, including electric vehicles (EVs), renewable energy systems, semiconductors, aerospace, defense equipment, and fertilizer production. For example, lithium, cobalt, and nickel are crucial for battery manufacturing, while REEs are essential for wind turbines, electronics, and high-performance magnets. India's interest in critical minerals is driven largely by its high import dependence. The country imports almost all of its lithium and cobalt requirements and relies heavily on other nations, particularly China, for processing and refining these minerals. This creates supply chain risks, especially in times of geopolitical tension or market disruptions.

To address these challenges, India has taken several strategic steps. Organizations such as the Geological Survey of India are intensifying domestic exploration, while Khanij Bidesh India Ltd. focuses on acquiring mineral assets overseas, including in Australia and Argentina. The government is also working to establish a National Critical Minerals Mission to strengthen the entire value chain, from exploration and mining to processing and recycling. In essence, critical minerals are central to India's goals of Atmanirbhar Bharat (self-reliance), energy security, and sustainable development, making them a key focus area for future policy, research, and industrial growth.

The Seminar addresses pressing challenges in India's mining sector. The seminar aims to promote responsible, technology-driven mining practices while fostering collaboration between industry, academia, and research organizations. This event will serve as a knowledge-sharing and networking forum, enabling participants to exchange ideas, showcase innovations, and secure next-generation, sustainable, and innovative mining operations worldwide.

SEMINAR THEMES

- ❖ Exploration & Resource Assessment
- ❖ Mining & Extraction Technologies
- ❖ Mineral Processing & Metallurgy
- ❖ Critical Minerals for Energy Transition
- ❖ Supply Chain Security & Geopolitics
- ❖ Recycling & Circular Economy
- ❖ Environmental & Social Sustainability
- ❖ Policy, Governance & Regulations
- ❖ Innovation & Emerging Technologies
- ❖ Skill Development & Capacity Building



ABOUT IEST

The Indian Institute of Engineering Science and Technology, Shibpur, is a premier public technical university located in Shibpur, Howrah, West Bengal. Established in 1856, it is one of the oldest engineering institutions in India and currently holds the status of an Institute of National Importance under the Ministry of Education. It was taken over by the Government of India. It was renamed as the Indian Institute of Engineering Science and Technology, Shibpur, to promote advanced education and research in engineering, science, and technology. It offers undergraduate, postgraduate, and doctoral programs across multiple disciplines, supported by strong research initiatives and industry collaborations.

With a sprawling residential campus on the banks of the Hooghly River, IEST Shibpur combines a rich historical legacy with modern academic and research infrastructure, making it a key contributor to technical education and innovation in India.

ABOUT MEAI

The Mining Engineers' Association of India (MEAI) is a leading professional body dedicated to advancing mining engineering and allied fields in India. Established in 1957, the association aims to promote scientific and technical knowledge, encourage research and innovation, and facilitate collaboration among mining professionals, academia, and industry. MEAI is a premier professional body in the country, comprising mining engineers, geologists, geophysicists, metallurgists, and allied technologists from the mining fraternity. The Association has a membership base of over 6,600 individual members across different categories (Life, Annual, Honorary, and Student), as well as 101 Life Institutional members from private and public sector mining companies and state and central government departments/undertakings. It covers 28 chapters across India.

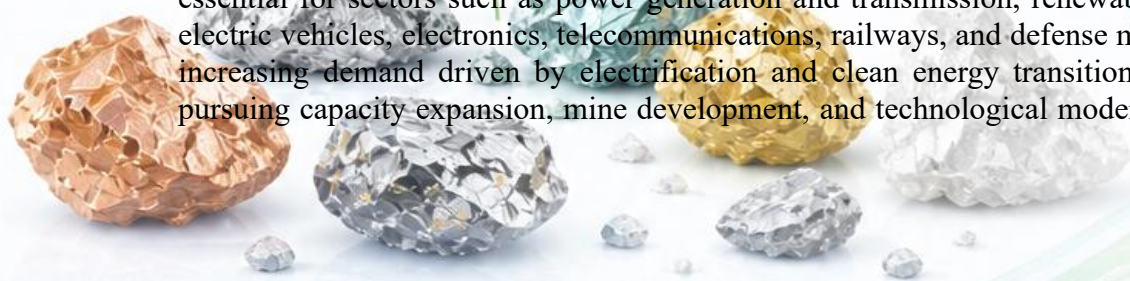
MEAI organizes conferences, seminars, workshops, and training programs, and also publishes technical journals and proceedings to disseminate knowledge. With a wide network of regional chapters, it plays a significant role in shaping policies, enhancing professional standards, and supporting sustainable development in the mining sector.

ABOUT HINDUSTAN COPPER LIMITED (HCL)

Hindustan Copper Limited (HCL), is a Schedule 'A' Mini-Ratna, Category-I Central Public Sector Enterprise (CPSE) under the administrative control of the Ministry of Mines. Incorporated in 1967 under the Indian Companies Act, 1956, HCL is the only company in India engaged in copper ore mining and holds all the operating mining leases for copper ore in the country.

The company's current focus lies in exploration, mining, and beneficiation of copper ore to produce and sell copper concentrate. HCL operates copper mines at Malanjkhand (Madhya Pradesh), Khetri (Rajasthan) and Ghatsila (Jharkhand). It has facilities of a primary smelter and refinery at Ghatsila (Jharkhand), secondary smelter and refining facilities at Jhagadia (Gujarat), and a Continuous Cast Copper Wire Rod plant at Taloja (Maharashtra)

Hindustan Copper Limited plays a critical role in India's resource security, as copper is essential for sectors such as power generation and transmission, renewable energy systems, electric vehicles, electronics, telecommunications, railways, and defense manufacturing. With increasing demand driven by electrification and clean energy transitions, HCL is actively pursuing capacity expansion, mine development, and technological modernization, including



partnerships with global mining companies. The company is also involved in sustainable mining practices, focusing on environmental management, waste utilization, and community development in mining regions. Its ongoing expansion projects aim to significantly increase ore production capacity, thereby reducing India's dependence on copper imports and supporting the vision of Atmanirbhar Bharat (self-reliant India).

Registration Fee

Indian Delegate	Rs 1500 per delegate 3 or more delegates from same organization @ Rs. 1000 per delegate
Overseas Delegate	US\$ 300 per delegate 3 or more delegates from same organization @ US\$ 200 per delegate
MEAI/MGMI Students/Research Scholars	Free Registration for all Life Members of MEAI/MGMI and Students/Research Scholars

Link for Registration

https://docs.google.com/forms/d/e/1FAIpQLSd3WDZxVIYakVp0u_178ZcIYNP56lFNJh05vJc3hD3IpZfu_w/viewform?usp=publish-editor

Sponsorship & Promotional Opportunities

Category	Sponsorship Fee (Rs)	Facilities to be provided for the advertisement	Free Delegates
Platinum Sponsor	Rs. 10.00 lakhs or US\$12,000	One-page color advertisement	10
Gold Sponsor	Rs. 5.00 lakhs or US\$7,500		8
Silver Sponsor	Rs. 3.00 lakhs or US\$ 4,000		5
Dinner/Lunch Sponsor	Rs. 2.00 lakhs or US\$ 2,500		3
Kit Sponsor	Rs. 1.00 lakhs or US\$ 1,500		2

Bank Details

Account Number	37321618544	IFSC No	SBIN0014528
Branch	New Town terminus building	Bank Name	State Bank of India

Council meeting

MEAI 53rd Annual General Meeting and 4th Council Meeting scheduled to be held on 21st June 2026, hosted by MEAI Kolkata Chapter.

Patrons

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President, MEAI & Vice
President Corporate
Services, TATA Steel

Mr. Asit Saha
Director General,
Geological Survey of India

Mr. Sanjiv Kumar Singh
CMD
Hindustan Copper Limited

Mr. Pankaj Kulshrestha
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Mr. Ujjwal Tah
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Prof. V.M.S.R Murthy
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CMD
Coal India Limited

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CMD
Damodar Valley Corporation

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& COO, ERM Group

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Mr. S N Mathur
Past President, MEAI

Mr. K Madhusudhana,
Past President, MEAI



Organizing Committee

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Executive Director,
Hindustan Copper Ltd

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