

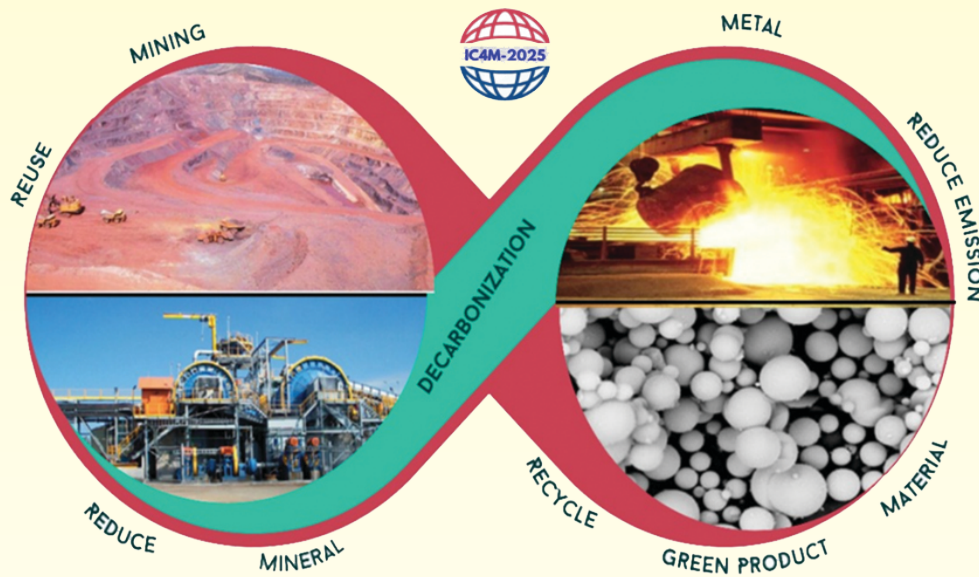


1<sup>st</sup> Circular  
International Conference on  
**Mining, Minerals, Metals and Materials**  
**(IC4M-2025)**



**Venue: CSIR-Institute of Minerals and Materials Technology (IMMT),  
Bhubaneswar 21<sup>st</sup>-25<sup>th</sup> January 2025**

**Theme: Sustainability and Circularity in the field of Mining, Minerals, Metals  
and Materials Science and Technologies**



Organised Jointly by **4MSI** and **IIME** (Bhubaneswar Chapter)

Knowledge Partners: **IMMT, IGMRC, ICT, KIIT & JNARDDC**



Minerals are essential raw materials in our daily lives, and are vital for economic, social and technological development. The mining industry provides raw materials, minerals and metals to our economy. Mineral-based industries use minerals as raw materials for production. Hence mining, minerals, metals and materials-based industries contribute significantly to the domestic and global economies. They provide the foundations for modern living, innovation and engineering achievements.

Technology has come to play a greater role in the mineral based industries making way for better circular economy by recycle the materials. It does not only reduce the environmental impacts of the surrounding but also reduces mining activities. Environmental effects have long been a concern for these industries and have to follow strictly environmental guidelines to prevent erosion, groundwater contamination, and loss of biodiversity.

### **Mining, Minerals, Metals and Materials Society of India (4MSI)**

While offering a platform to people of mining, minerals, metals and materials fraternity, we have formed a Society namely, Mining, Minerals, Metals and Materials Society of India in 2019, to exchange the professional knowledge through regular interactions through brainstorming sessions, and conferences for benefit of the mineral based industries. Odisha being the most mineral rich state, it is prudent to form this society with head office at Bhubaneswar to start related activities in the state and beyond. The major topics of discussion relating to conservation of natural resources/energy, eco-friendly sustainable technology, innovation in operation and judicious utilisation of low and lean grade ores/minerals and its value addition to produce metals and materials. Our main aims and objective are to transform the natural ores/minerals to metals and materials using advanced technologies and make available affordable price to our human society. 4MSI has more than 300 life members from India and abroad. More than 40 brainstorming sessions have been organised and delivered by eminent speakers from India and abroad for benefit of Members.

### **Indian Institute of Mineral Engineers (IIME) Bhubaneswar Chapter**

Indian Institute of Mineral Engineers (IIME) Bhubaneswar chapter is situated in the mineral heart

of the India at the city of Bhubaneswar in state of Odisha. IIME Bhubaneswar chapter is the professional body involved in making technical interaction with mineral based industries, R&D and academia for exchange of knowledge. The major activates of the chapter include conducting conferences or seminars, brainstorming interactive sessions. This Chapter encourages the mineral processing professionals and students by recognizing their contributions and providing honours and awards. In addition to this the chapter will be starting an international journal "Mineral Processing Transactions" that will publish the latest research and innovations in the mineral processing and its allied areas. The IIME Bhubaneswar chapter is supported by more than 190 IIME members; who are the main driving force in the success of the chapter. The chapter constantly encourages new talent and professionals in the mineral processing field to join the society and bring in their wisdom for the betterment of mineral fraternity.

### **About Bhubaneswar**

Bhubaneswar is an ancient city in India's eastern state of Odisha and is Temple city of India. Bhubaneswar together with Puri and Konark forms golden triangle; one of the Eastern India's most visited destination. It is the educational and medical hubs in eastern India. Modern Bhubaneswar has earned reputation for its IT Centre and software parks as well as a model venue for conference and convention. It is well connected by Air, train and road to most of the capitals of states of India and also connected by air with Dubai and Singapore. Odisha is the hub of steel and aluminium industries in India with rich mineral reserves and mining activities.

### **Lingaraj Temple**

Lingaraj Temple is a Hindu temple dedicated to Harihara, a form of Shiva and is one of the oldest temples in Bhubaneswar. The temple is the most



prominent landmark of the Bhubaneswar city and one of the major tourist attractions and represents the quintessence of the Kalinga architecture and culminating the medieval stages of the architectural tradition at Bhubaneswar.

### **Dhaulti Giri**

Shanti Stupa of Dhaulti Giridisplaying Lord Buddha's footprints, is also known as the Peace Pagdaat a distance of 7 Km from city. Dhaulti is well known for its famous rock edicts of Ashoka where Kalinga War was fought and won by the Mauryan emperor Ashoka in 265 BC.



### **Jagannath Temple, Puri**

The Jagannath Temple is an important Hindu temple dedicated to Jagannath, a form of Vishnu – one of the trinities of supreme divinity in Hinduism. Belonging to the 11th Century and enjoying the honour of being one of the “char dhams”the pilgrimage that every Hindu intend to visit. Puri temple is famous for its annual Ratha Yatra or chariot festival.



### **Konark Sun Temple**

Konark Sun Temple is a 13th-century Temple at about 35 KM northeast from Puri and 60 KM from Bhubaneswar. It is a UNESCO World Heritage Site and a masterpiece in both conception and realization, representing a chariot of the Sun God, with twelve pairs of wheels drawn by seven horses evoking its movement across the heavens.



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- ❖ Sushobhan B R, Scientist, IGMRC, Bhubaneswar
- ❖ Barik Priyabrata, Office Executive - IT, IGMRC, Bhubaneswar

## Call for Extended Abstracts

The conference will cover the major areas like: Mining process, Safety and Environment, Ferrous & Nonferrous Metals, Mineral Beneficiation & Circularity, Energy and new Materials, Coatings & Corrosion, Decarbonization etc. The authors are requested to submit their extended abstracts online in the website for presentation during IC4M-2025 before 30th September 2024. The abstract guideline is in the website. Based on the content the abstract will be considered for oral or poster presentations. The theme of conference is broadly classified in the following topics with focuses on the decarbonisation and green technologies;

## Mining Engineering

- ◆ ESG initiatives and Practices in Mining Engineering
- ◆ Sustainable Development Framework (SDF) in Mining Industries
- ◆ Net Zero Mining –New Age Mining
- ◆ Application of AI/ML, IoT, AR/VR, Robotics, Autonomous Vehicles, Drones, Blockchain, etc. in the Mining
- ◆ Logistics Automation System –Digitally Reshaping Mining Operations
- ◆ Coal Bed Methane (CBM), Coal Mine Methane (CMM) and Coal Gasification
- ◆ Mine Survey and Safety Engineering
- ◆ Mining Machinery and Equipment

## Mineral Processing

- ◆ Advanced Techniques for Mineral Characterisation
- ◆ Advanced Comminution Process
- ◆ Advanced Classification Process
- ◆ Advanced Gravity Processes for Fine Particles
- ◆ Advanced Surface Phenomena (Flotation & Flocculation)
- ◆ Advanced Magnetic Separation Process

- ◆ Advanced Dewatering Process
- ◆ Advanced Agglomeration Processes (Pelletisation, Sintering and Briquetting)
- ◆ Energy Minerals
- ◆ Integrated Value Chain – Plant Design
- ◆ Integrated Value Chain – Process Control and Modelling and Simulation
- ◆ Utilisation of Wastes for Sustainability
- ◆ Dry Beneficiation
- ◆ Strategic Minerals Recovery and Rare Earth Processing
- ◆ Human Capitals

## Metallurgical Engineering

- ◆ Advances in Ferrous Metallurgy (Both Pyrometallurgical and Hydrometallurgical Routes)
- ◆ Advances in Non-Ferrous Metallurgy (Both Pyrometallurgical and Hydrometallurgical Routes)
- ◆ Advanced Physical Metallurgy
- ◆ Advanced Mechanical Metallurgy
- ◆ Manufacturing Processes and Joining
- ◆ Powder Metallurgy

## Material Sciences and Engineering

- ◆ Nanotechnology and Materials
- ◆ Semi-Conductor Materials
- ◆ Magnetic Materials
- ◆ Electronic Materials
- ◆ Microelectronic Materials
- ◆ Hybrid Optical Materials
- ◆ New Functional Materials
- ◆ Modelling and Simulation of Materials and Devices Surface Engineering/Coatings

## Technical Exhibition

Technical exhibition will be organised for five days starting from (21st to 25th January) to showcase new process technologies, instruments and equipment by the industries and Equipment manufacturers, R&D Consultants in India and abroad to demonstrate / display their products, equipment and services and interact with user industries. For detailed about exhibition tariff and facilities.

The contact Person is **Mr. S. Mishra** - CMD, MAIESTAS Group of Companies, Bhubaneswar, e-mail: [director.rnd@maiestas.in](mailto:director.rnd@maiestas.in) ; Mobile- 9778538778

## Sponsorship

Sponsorship are also invited from different industries, equipment manufacturers, consultancy agencies and other institutions for this mega event. Different tariffs payable in each category of sponsorship along with complementary benefits to sponsors are listed below:

### Lead Sponsors (Rs. 25 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Visibility in Exhibition and Gala Dinner

Full page colour advertisement in back page on the conference souvenir

Complementary registration: 15 delegates

One invited talk (20 minutes) during the conferences.

Complimentary exhibition booth (15 feet x 10 feet). Additional area will be chargeable.

### Platinum sponsors (Rs. 15 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Complementary registration: 12 delegates

One invited talk (20 minutes) during the conferences.

### Diamond Sponsors (Rs. 10 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Complementary registration: 8 delegates

### Gold sponsors (Rs. 7 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Complementary registration: 5 delegates

### Silver sponsors (Rs. 5 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Complementary registration: 3 delegates

### Bronze sponsors (Rs. 2 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Complementary registration: 2 delegates

### Dinner Sponsors (Rs 10 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Visibility in Dinner area

### Lunch Sponsors (Rs 8 lakh inclusive GST)

Display the corporate logo in all printed documents and electronically during the conferences

Full page colour advertisement in the conference souvenir

Visibility in Lunch area

### Advertisement in the Conference Souvenir

Full colour page: Rs. 1 lakh (inclusive GST)

Half page: Rs. 50,000/- (inclusive GST)

## Awards

Best presentation awards will be given during the conference in following areas:

Excellence in Mining and Mineral processing

Distinction and Innovation in Metals and Materials Science & Technology

Posters Awards

Exhibitors Award

Startup/Innovation Awards (from participating exhibitors)

Lifetime achievement (By Nomination)

Institutional award (In the name of Institute/Person who donates minimum Rs 1 lakh for the award)

## Conference Highlights

- ◆ 3 Days technical presentation of more than 500 papers in Oral and Poster presentation
- ◆ Keynote presentations
- ◆ Mega Expo showcasing the latest equipment, process & products on Mining, Mineral Processing, Metals and Materials etc.,
- ◆ Latest characterization instruments
- ◆ Exhibitor Presentations
- ◆ Social functions and visit to Konark, Puri, etc.,

## Registration

Everyone who wants to participate (including the technical paper presenters) in the Conference will have to register and pay the fee before due date. The registration fees including GST are as under:

Delegates	Fee including GST
International Delegates	500 USD
International Student Delegates	200 USD
International Exhibitor Delegates	400 USD
Indian Delegates	8,000 INR
Student/Research Scholars	5,000 INR
4MSI and IIME Members	6,000 INR
Exhibitor Delegates	6,000 INR
Spouse (Excluded from Technical events)	5,000 INR

## ACCOUNT DETAILS

Acc. Holder's Name : IC4M-2025 Care of 4MSI

Type of Account : Current Account

Name of Bank : State Bank of India

Bank Branch : Info City Branch (Code : 10133)

IFS Code : SBIN0010133

Account No. : 4294 8497 547

GSTIN RgdN No.: 21AAGTM4567Q1Z0

Swift Code : SBININBB270



**FOR REGISTRATION AND PAYMENT VISIT WEBSITE:**

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### Conference Office:

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### Website Address:

[www.ic4m2025.com](http://www.ic4m2025.com)