



**IIM**  
Metallurgy  
Materials Engineering



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# MMMM 2022

## Minerals, Metals, Metallurgy & Materials

**25 26 27** August 2022

Pragati Maidan, New Delhi

*International Conference on  
Resource Efficiency and Circular Economy in  
Mineral & Metal Sectors  
&*

*International Exhibition*

 in association with Hyve India Pvt. Ltd.

*Organized By*  
**The Indian Institute of Metals – Delhi Chapter**

*\*confirmation awaited*

## ► THE INDIAN INSTITUTE OF METALS (IIM)

The Indian Institute of Metals, formed in 1946 with headquarters at Kolkata, aims to cater to the needs of Metallurgical Engineers and Material Scientists working in the areas of mineral beneficiation, extraction, metal production, fabrication, heat treatment, finishing as well as practical and theoretical aspects of all ferrous and non-ferrous metals and alloys, ceramics, composites and other disciplines. The activities of the Institute include organising national and international technical conferences and programmes, research activities, publications, conducting qualifying examinations etc. The institute, with 57 Chapters and about 10000 members, is recognised throughout the world as one of the premier metallurgical organisations.

## ► IIM DELHI CHAPTER

The Delhi Chapter of IIM (IIM DC) was founded in 1953 and holds an eminent status among all the IIM Chapters. This Chapter is organizing a number of technical events viz., lectures, seminars, workshops and technical talks on regular basis. The Chapter also organizes technical visits to plants located in and around NCR region.

## ► ABOUT THE CONFERENCE & EXHIBITION

Since 1996, IIM Delhi Chapter has been organizing a biennial event - MMMM (Minerals, Metals, Metallurgy & Materials) on issues of national importance impacting the Ferrous and Non-Ferrous Industries. MMMM 2022 shall include an international conference and an international technical exhibition, the latter in association with Hyve India, a leading organizer of trade exhibitions, conferences and business events in India. International Technical exhibition, which runs concurrent to the International Conference, has become a well-recognized event within the industry in India, as well as the world over, for showcasing market leading products and brands.

The title of this year's International Conference is **“Resource Efficiency and Circular Economy in Mineral & Metal Sectors.”**





In order to conserve the natural resources, resource efficiency plays an important role for sustainable development. Resource efficiency means doing more with less, by maximizing the usefulness of resource inputs. Materials, energy and water efficiency are all included under the resource efficiency umbrella. Resource efficiency is closely linked to the concept of “circular economy”, which has gained prominence as a policy goal for sustainable development in recent years across the globe. Circular economy concept not only focusses on waste management and recycling, it encompasses all aspects of resource efficiency and move from “Take-Make-Dispose” Model to “Take-Make-Reuse” Model, involving “6 R” concept : Reduce, Reuse, Recycle, Recover, Redesign & Remanufacture. The aim of the circular economy is to boost economic growth without increasing the consumption of natural resources.

The mining and metals industry have a significant role to play in a circular economy. Minerals and metals already display a significant degree of circularity in the economy today, but more opportunities exist. Mining operations have considerable scope to adopt a circular approach, considering the environmental and societal impact, aiming to minimize negative effects and reduce waste. Metals are highly recyclable, and can lead to transition from linear economy to circular economy, thereby improving resource efficiency with reduced environment burden.

India is having sizeable reserves of iron, aluminum, copper, zinc, lead, chromium, manganese etc. Both ferrous and non-ferrous metal industries play an important role in the country's economic growth. Steel is regarded as backbone of the economy and non-ferrous metals, such as aluminum, copper, zinc and lead are widely used in power transmission, electrical appliances, aviation and other industrial applications. Metal sector is considered as “hard to abate” sector due to large GHG emission. This can be addressed by adopting the principle of circular economy as energy requirement in recycling is reduced by 70-90%.

Water is another important input for mineral and metal sectors. Not much attention has been given for conservation of this precious natural resource in the past leading to depletion of many water bodies and lowering the ground water table to alarming low level. This natural resource is not available in desired quantity and quality, even by paying higher cost, in some parts of the country.



## Technical Sessions

- ★ Resource Efficiency in Mining and Metal Sectors
- ★ Utilization of Lean Grade Ores
- ★ Utilization of Metal Scrap
- ★ Utilization of Slags and Co-products
- ★ Energy and Water Management
- ★ Role of MSMEs (Micro, Small & Medium Enterprises) in Circular Economy
- ★ Energy & Environment in Mineral and Metal Sectors
- ★ Decarbonization and Green Metals Production

In the International Technical Exhibition, the participants will be showcasing their technologies, products and services. The Conference and Exhibition will provide an excellent opportunity for interaction among luminaries from all parts of the globe, promoting business for growth and development of Metal and Mineral sectors through resource efficiency.

## Call for Papers

Technical papers are invited for presentation in the Conference as per themes mentioned above. Selected papers shall be published in the form of special issue.

## Important Deadlines

Submission of Abstract : May 15, 2022  
 Communication of Acceptance : June 7, 2022  
 Submission of Full Text : July 7, 2022

## Registration

Registration Fees per delegate (including GST)		Payment Details	
		Cheques/demand drafts may be drawn in favour of The Indian Institute of Metals, payable at New Delhi. Payments can also be made by NEFT/ RTGS. Details are as under:	
IIM Members	Rs. 3,500	Bank Name & Branch Address	Punjab National Bank 45, Tughlakabad Institutional Area, M.B. Road, New Delhi-110062
Non-Members	Rs. 5,000		
Academia	Rs. 2,500		
Spouses	Rs. 1,000	IFSC Code	PUNB0062910
Student Members	Rs. 1,000	Account Type	Savings Bank
Overseas Delegates	US \$ 250	Account No.	06292010014900

## Sponsorship

Sponsorship is solicited from industries, technology and equipment suppliers and consultants. The following benefits would be available to the Sponsors:

Category	Amount	Benefits
Platinum Sponsorship	Rs. 8.00 Lakh	★ Six complimentary delegates ★ One full page colour advertisement ★ Wide publicity in the banners and souvenir
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The advertisement charges in Souvenir (including GST) are as under:

### Advertisement Charges

Outside Back Cover Page (Colour)	Rs.40,000
Inside Front Cover Page (Colour)	Rs.30,000
Inside Back Cover Page (Colour)	Rs.30,000
Inside Full Page (Colour)	Rs.20,000

Advertisement material (A4 size) may be sent by 31st May 2022.

### Manufacturers' Presentation

Technical sessions in International Conference will have a priority slot of 30 minutes for Manufacturers' presentations, where technology and equipment suppliers can highlight their latest technology, products and services. Presenter will be given complimentary registration. Charges are:

Indian	Rs100000/
Overseas	US\$2500

### Correspondence

All correspondence related to the Conference may be addressed to:

**R. K. Vijayavergia**

Organizing Secretary, MMMM 2022

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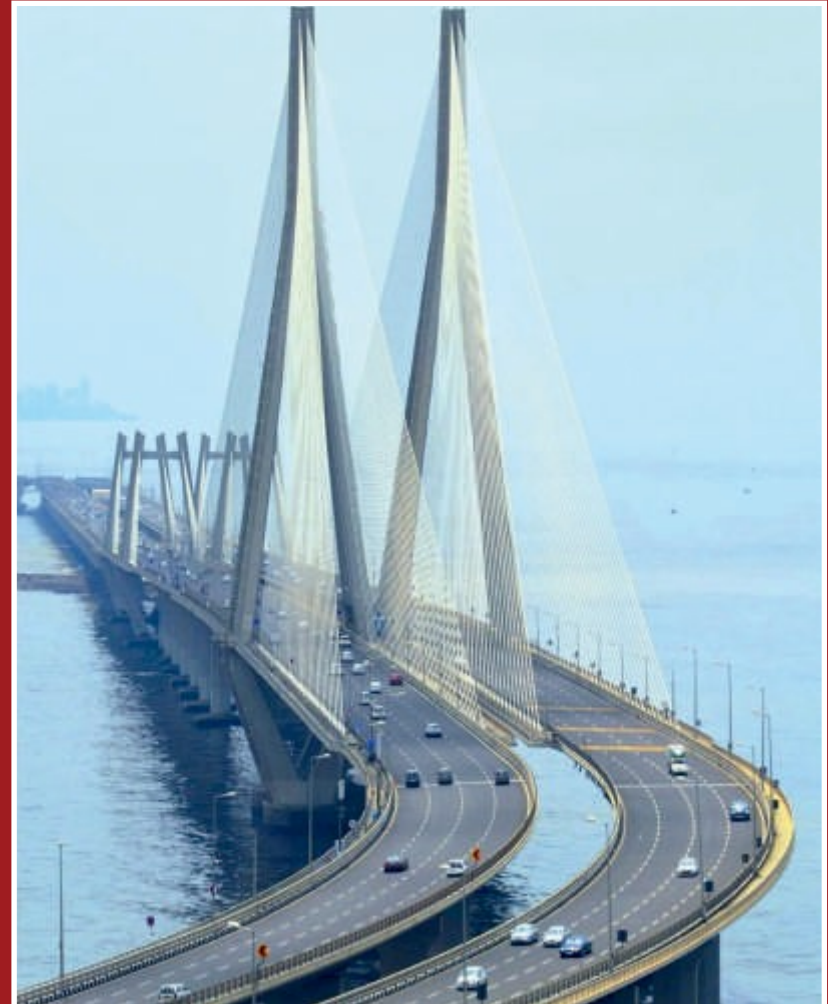
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