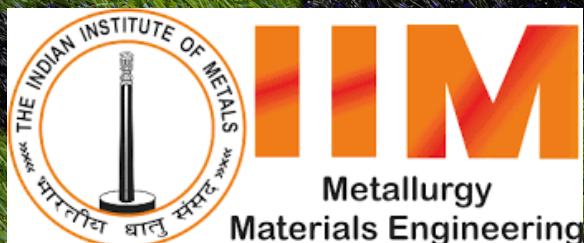


International Conference on

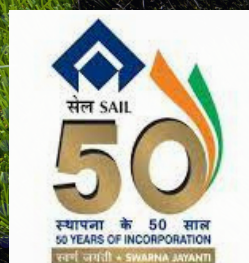
# REDUCING CARBON FOOTPRINT IN METAL INDUSTRIES

Organized by



**Rourkela Chapter**

In association with



**SAIL - RSP**



**NIT Rourkela**

Venue: Steel Authority of India Ltd.  
Rourkela Steel Plant

Date:  
February 3-4, 2023



# INTRODUCTION

The conference aims to bring together Engineers, Industrialists, leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of reduction in carbon footprint in metal industries. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of carbon footprint reduction.

## THEME

The theme of the conference is "Reducing carbon footprint in metal Industries". To discuss new technologies developments around the globe, a time-bound action plan for minimizing the emissions from the metal industry, the way forward for promoting the transition towards green manufacturing, various strategies and technologies that can be adopted by the metal industry to produce green metal, and technology readiness levels in line with the commitments made by the Central Government at COP26.

## ROURKELA STEEL PLANT

Rourkela Steel Plant (RSP), the first integrated steel plant in the public sector in India, was set up with German collaboration with an installed capacity of 1 million tonnes. The present capacity of RSP is 4.5 MTPA of Hot Metal and 4.2 MTPA of Crude Steel. RSP was the first plant in India to incorporate LD technology of steel making. It is also the first steel plant in SAIL to produce 100% of slabs through the cost-effective and quality-centric continuous casting route. Its wide and sophisticated product range includes various flat, tubular and coated products. The New Plate Mill and the newly commissioned Hot Strip Mill-2 are the state-of-the-art mills that produce value-added products catering to niche market. RSP is SAIL's only plant that produces silicon steels for the power sector and high-quality pipes for the oil & gas sector. The first Blast Furnace of the country under PSU, Blast Furnace 'Parvati' of RSP, was lighted up by the then President of India Dr. Rajendra Prasad on 3rd Feb 1959. This Conference is being organized on the red-letter day of 3rd February to cherish this historic moment of Indian Steel Industry.



## PROGRAMME SCHEDULE

### Day 1 - Friday, 3rd Feb. 2023

TIME	PROGRAMME
8:30 - 9:00 AM:	Registration of delegates
9:00 - 11:00 AM:	Inaugural Session
11:00 - 11:30 AM:	High-tea
11:30 - 1:30 PM:	Technical Session - I
1:30 - 2:30 PM:	Lunch Break
2:30 - 5:00 PM:	Technical Session - II
7:30 PM onwards:	Cultural Programme & Dinner

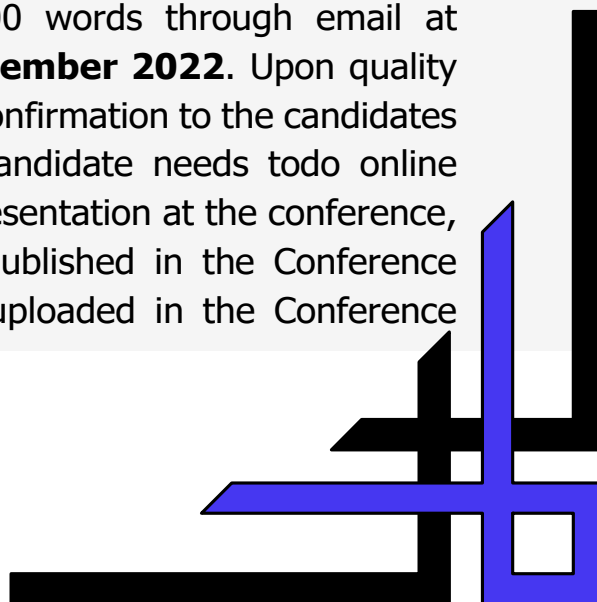
### Day 2 - Saturday, 4th Feb. 2023

TIME	PROGRAMME
9:00 - 11:00 AM:	Technical Session - III
11:00 - 11:15 AM:	Tea break
11:15 - 1:30 PM:	Technical Session - IV
1:30 - 2:00 PM:	Valedictory Session
2:00 - 3:00 PM:	Lunch Break
3:30 - 5:00 PM:	Plant Visit (Optional)



## CALL FOR PAPERS

Technical papers are invited for presentation in the conference. Authors are requested to submit the abstract of about 200 words through email at **[seminariimrkl2022@gmail.com](mailto:seminariimrkl2022@gmail.com)** by **25th December 2022**. Upon quality check and approval by the technical committee, confirmation to the candidates shall be sent over email following which the candidate needs to do online registration. After registration and subsequent presentation at the conference, all the full papers, after peer review, will be published in the Conference proceedings, the full volume of which will be uploaded in the Conference Website.



## REGISTRATION

Upon submission of abstract, intimation to the shortlisted candidates will be provided through email by **31st December 2022**. Shortlisted applicants then should pay the appropriate registration fee as per their category as mentioned in section "Registration fee" to the bank account as provided in the "Payment Details" section by **5th January 2023**. Acknowledgment of payment along with transaction details and final full paper then should be sent through email to the event email id [seminariimrkl2022@gmail.com](mailto:seminariimrkl2022@gmail.com). The registration fee for the Conference will cover participation in Technical Sessions, Conference Proceedings in Pen drive, printed materials, Conference kit, Lunch, tea/coffee, Conference banquet, etc.

## SCOPE OF SUBJECTS

The conference solicits contributions of abstracts, papers and posters that address themes and topics of the conference, including figures, tables and references of novel research materials. The topics of interest of the conference are but not limited to:

- Modern efforts in reduction of carbon footprint/decarbonisation metal industries.
- Challenges and efforts to reduce the carbon footprint in non-ferrous metal industries such as Aluminum and Copper.
- Government decarbonisation policies – outcomes and implications.
- Green Steel: Advances and Technical Challenges.
- The future of Green Steel.
- Advances in clean production technologies.
- Strategies to upgrade existing facilities.
- carbon capture, utilization and storage (CCUS).
- Indian roadmap for CCUS.
- Energy efficiency and electrification of processes.
- Roles of hydrogen in green technology.
- CO<sub>2</sub> capture from blast furnaces.
- Benefitting from scrap and low emission feedstocks.





## REGISTRATION FEE

### Category

### Fee

#### **INDIAN DELEGATES**

Student / Research Scholar

INR 5,000 + 18% GST

IIM Student Member

INR 4,000 + 18% GST

Engineer/Faculty/Scientist

INR 10,000 + 18% GST

IIM Member

INR 8,000 + 18% GST

#### **INTERNATIONAL DELEGATES**

USD 150

## SPONSORSHIPS

The conference will be attended by a good number of manufacturers, research organizations and other industries. Sponsors will get wide publicity during the the conference through display of banners, mentions in the conference events, proceedings, souvenir and other media. Reputed companies /organizations and Industries are invited to join the international event as sponsors. The details regarding various sponsorships are given below:

Category	Amt (Rs. In Lakh)	Number of Free Delegates
PLATINUM	7	5
DIAMOND	5	4
GOLD	3	3
SILVER	2	2

**NB:** Space for Exhibition Stall and Full Page Colour/ B&W Advertisement in the Souvenir will be provided to Platinum/Diamond/Gold/Silver sponsors.

## ADVERTISEMENTS

Advertisement rates (in INR) for the Souvenir are as given below:-

Category	Color	Black & White
Front inside / back inside cover:	100,000	--
Full / Half page :	50,000 / 40,000	40,000 / 30,000
Display of Brand name / Logo /Banner at the Venue:		30,000

**Note:** Advertisers should send their soft copy of advertising materials by January 05, 2023.

## PAYMENT DETAILS

All payments related to Registration of Delegates, Sponsorship, Advertisement, etc. should be done through crossed Demand Draft / Cheque payable at par, drawn in favour of "The Indian Institute of Metals" payable at Rourkela, or online transfer to account as given below:

**Bank Account Name** : The Indian Institute of Metals  
**Account Number** : 07120100003431  
**Name of the Bank** : UCO Bank  
**Address of the Branch** : Sector 5, Rourkela, Sundargarh, Odisha - 769002  
**IFSC code** : UCBA0000712  
**MICR code** : 769028004  
**SWIFT code** : UCBAINBB104  
**GSTIN** : **21AAATT3359D1ZU**

## IMPORTANT DATES

**December 25,  
2022**

**Abstract  
Submission**

**December 31,  
2022**

**Abstract Acceptance  
Confirmation**

**January 5,  
2023**

**Fee payment and  
Final paper  
submission**

**February 3-4,  
2023**

**Conference**

## HOW TO REACH RSP ROURKELA

- Major airports in the proximity of Rourkela are Jharsuguda, Ranchi, Bhubaneswar, Kolkata and Raipur.
- Rourkela is well connected to many important Indian cities as the Howrah-Mumbai line and Ranchi-Bhubaneswar line passes through this city.
- Rourkela is well connected by State Highway no. 10 and National Highway no. 143. These highways connect the cities like Ranchi, Raipur, Sambalpur, Bhubaneswar etc. with Rourkela.
- Rourkela railway station is situated just 1 km away from the main gate of RSP. Autos/taxis are available round the clock there.
- Local transport facility is also available from nearby state and private bus terminus.



## ACCOMMODATION

Both luxury and economy category hotels are available in Rourkela that are located within 1-8 km from the Conference venue. Limited accommodation is also available at our guest house. The delegates attending the Conference are advised to book their accommodation directly in the telephone numbers listed below. The organizers will provide help in case delegates find difficulty in booking accommodation.

### Hotels at Rourkela

1. Mayfair Hotels & Resorts	0661-2460101
2. Radhika Regency	9439784547
3. The Regency Inn	7008989280
4. The Central Park Boutique Hotel	0661-2511611
5. Deepti Courtyard	0661-2600246
6. Hotel Pahadi	9692908506

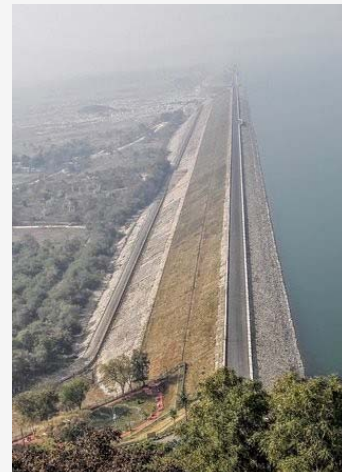
## NEARBY TOURIST ATTRACTIONS



Hanuman Vatika



Khandadhar waterFall



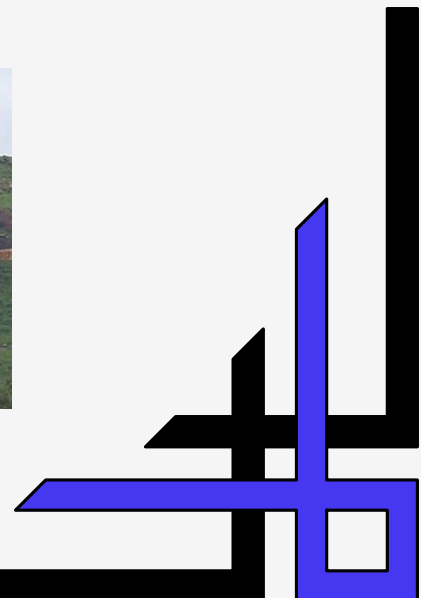
Hirakud Dam



Vedavyas Temple and sangam  
of Sankha and Koel rivers



Vaishno Devi Temple



## ORGANIZING COMMITTEE

### Apex Committee

**Chief Patrons:** Sri Atanu Bhowmick, Director In- Charge, RSP  
Prof.K.Umamheshwar Rao, Director, NIT Rourkela

**Patrons:** Sri S.R.Suryawanshi, ED(Works)  
Sri P.K.Satapathy, ED (P&A)  
Sri P. K. Sahoo, ED (Projects)  
Sri S.Tripathy, ED (MM)  
Sri N. Kumar, CGM I/c, (Services)  
Sri P. K. Rath, CGM I/c, (Mines)  
Sri A.K.Behuria, CGM I/c,(F&A)  
Prof.B.C. Ray, Professor HAG, NIT Rourkela

### Organising Committee

**Chairman:** Sri S.R.Suryawanshi, ED (Works)  
**Co-Chairman:** Sri D.Dutta, CGM (Hot Strip Mills) & Jt.Secy,  
IIM-Rourkela Chapter  
**Convenor:** Sri A.C.Sarkar, CGM (Quality) & Hony.Secy, .  
IIM-Rourkela Chapter  
**Co-Convenor:** Sri P.K.Swain, GM I/c, FM(M) &  
Hony. Treasurer, IIM Rourkela Chapter  
Prof. A. Basu, HOD, Dept. of Metallurgical and  
Materials Engg, NIT Rourkela

## CONTACT DETAILS



**Sri A.C.Sarkar: 8895501133**  
**Sri P.K.Swain: 8895500178**  
**Prof. A.Basu : 9437437579**



[seminariimrkl2022@gmail.com](mailto:seminariimrkl2022@gmail.com)



<https://conference-iimrourkela.org/>



**Gopabandhu Auditorium,  
Rourkela Steel Plant**

