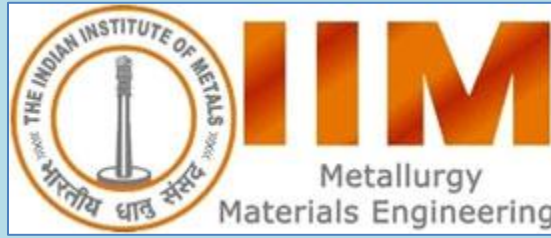


Padmashri Dr. Baldev Raj, Former President of the Indian Institute of Metals (IIM), was born on 9th April 1947. He was the Director of National Institute of Advanced Studies, Bengaluru; President-Research, PSG Institutions, Coimbatore; and Distinguished Scientist & Director of Indira Gandhi Centre for Atomic Research, DAE, Kalpakkam. Dr. Baldev Raj was well known internationally for his outstanding contributions towards energy policy, advanced materials, manufacturing processes, and characterization of materials. He has occupied several important and prestigious positions in national and international bodies including the President of IIM, IIW & INAE, and has been decorated with prestigious national & international honours.

Dr. Baldev Raj passed away at Pune on January 06, 2018. IIM has instituted a Lecture Series in memory of Dr. Baldev Raj for the outstanding contributions made by him to the IIM and the nation. The seven lectures so far have been delivered by Dr. P. Rama Rao at NIAS, Bengaluru; Dr. R. Chidambaram via online; Dr. B.N. Suresh via online; Dr. Anil Kakodkar at IGCAR, Kalpakkam; Dr. Sanak Mishra at PSG College of Technology, Coimbatore; Dr. Madhavan Nair at NIIST, Trivandrum; and, Dr. V.S. Ramamurthy at IISc., Bangalore in 2025.



**The Indian Institute of Metals, Head Office, Kolkata
IIM-Human Resources Development Centre, Kalpakkam-Chennai**

Cordially invite you for

Eighth Dr. Baldev Raj Memorial Lecture

on

**"The Pathways to Green Steel:
Technology, Economics and the Indian Imperatives"**

to be delivered by

Shri S.S. Mohanty

CEO & Managing Director, Essar Minmet Ltd., Bhubaneswar

on

9th April 2026, Thursday, 14.30 hrs

at Auditorium, IIM Head Office,

Sector V, Salt Lake, Kolkata 700091



Hybrid Mode Event; MS Teams Weblink for the Event:

Join: <https://teams.microsoft.com/meet/49223461724689?p=0APGwAU69L0Le4d4Mz>

Meeting ID: 492 234 617 246 89

Passcode: xn7j9fu2

Supported by:

Tata Steel Ltd., Jamshedpur; NACE International India Section, Mumbai; Department of Atomic Energy (IREL & UCIL), Mumbai; PSG Institutions, Coimbatore; IIM Head Office, Kolkata

PROGRAMME

9th April 2026 @ 14:30 Hrs, Thursday, at Auditorium, METAL House, Kolkata

Hybrid Mode Event; MS Teams Weblink for the Event:

Join: <https://teams.microsoft.com/meet/49223461724689?p=0APGwAU69L0Le4d4Mz>

Meeting ID: 492 234 617 246 89

Passcode: xn7j9fu2

14:30 hrs : Lighting of Lamp and Paying Homage to Dr. Baldev Raj

14:35 hrs : Welcome Address &
Profile of Dr. Baldev Raj & About the Lecture Series
Dr. U. Kamachi Mudali
Former President, IIM & Chairman, IIM HRDC-KC

14:50 hrs : Presidential Address
Prof. B.S. Murty
President, IIM & Director, IIT Hyderabad

15:05 hrs : Special Address
Brig. Arun Ganguli (Retd)
Secretary General, IIM HO, Kolkata

15:15 hrs : Eighth Dr. Baldev Raj Memorial Lecture on
**"The Pathways to Green Steel:
Technology, Economics and the Indian Imperatives"**
Shri S.S. Mohanty
CEO & Managing Director, Essar Minmet Ltd., Bhubaneswar

16:15 hrs : Vote of Thanks
Mr. Somnath Guha
Honorary Treasurer, IIM

16:20 hrs : **High Tea**



RSVP: Ms. Atashi Saha, Additional General Manager, IIM HO, Kolkata, *Mail:* general-admin@iim-india.net



Shri S.S. Mohanty

CEO & Managing Director, Essar Minmet Ltd., Bhubaneswar

Shri Sashi Shekhar Mohanty, CEO & Managing Director, Essar Minmet Limited had an illustrious career in Steel and Mining Industry with exemplary contribution to the Indian Steel Industry over a remarkable career span of more than 47 years. Few of his extraordinary achievements include: product development in multiple sectors including the Infrastructure, Engineering, Railways, Space, Automotive and Capital Goods during his tenure as Director (Technical) with SAIL; leadership in advanced collaboration between Steel Industries, academia and research Institutes creating a foundation for future growth and innovations; pivotal role in enhancing the R&D capabilities of SAIL, translating industrial application of R&D breakthrough into tangible results in the operations; and, instrumental in establishing and regulating standards for different steel products for various applications creating a quality oriented domestic steel market at MTDC.

Shri S.S. Mohanty is former President of IIM and has been honoured with Platinum award by IIM in 2018, and Lifetime Achievement Award of the Ministry of Steel, Govt. of India at the National Metallurgist Awards 2024, at Bhubaneswar. He has to his credit 50 Technical Papers in International Journals and 2 Patents.

The Pathways to Green Steel: Technology, Economics and the Indian Imperatives

Abstract

Towards achieving climate goals for net zero by 2070, in view of rising carbon emissions and international sustainability requirements, the Indian steel sector is marching towards transition to 'green steel'. The production of green steel with significantly reduced carbon emission of around 2 to 3 tons per steel is generally achieved through cleaner energy sources and advanced technologies. To move away from carbon-intensive Blast Furnace-Basic Oxygen Furnace processes, India is exploring several technologies such as Green Hydrogen-Based DRI, Scrap-Based EAF, Carbon Capture, Utilization, and Storage, and several other innovations. Green steel production with significant decarbonization is 30% to 50% costlier higher than traditional methods. For an economical green steel production India is pursuing several initiatives like Green Hydrogen Mission, Circular Economy, Policy & Procurement, and Industry Coordination. In this presentation the authors will highlight the technology, economics and the requirements towards successful Green Steel production roadmap for India.
