

INTERNATIONAL SEMINAR

STEEL TECH

ORGANIZED BY

STEEL TECH



ON

18th Sept. 2026 | Friday

Taj Bengal, Kolkata, India

LATEST DEVELOPMENTS IN STEELMAKING, ROLLING & RAW MATERIAL SUPPLY SECURITY



STEELMAKING



ROLLING



RAW MATERIAL



SUPPLY SECURITY

Website: www.steeltech-india.com



STEEL TECH's Annual International Seminar, established in 2009 by our founding Editor, the Late Dr. Amit Chatterjee, has earned a distinguished reputation for its uniqueness and industry relevance. Over the years, it has attracted numerous eminent speakers and participants from both India and abroad.

The seminar is widely recognised for its rich technical content, insightful deliberations, and exceptional networking opportunities.

The 23rd seminar of this prestigious series will focus on the latest advancements in steelmaking and rolling technologies, including:

- Hydrogen-based direct reduction
- Solid Oxide Electrolysis Cell (SOEC) technologies
- Scrap recycling and circular economy practices
- Carbon capture and utilisation
- Continuous Strip Production (CSP), Endless Strip Production (ESP) & Quality Strip Production (QSP)

In parallel, raw material supply security has emerged as a critical global concern, driven by dependence on high-grade iron ore, metallurgical coal, and scrap availability. Regions such as India, Europe, and China are actively pursuing policy-driven strategies to balance decarbonisation with resource resilience.

This seminar promises to deliver valuable insights and meaningful discussions for all participants.



BACKGROUND

India is currently the **second-largest steel producer in the world**. With a population of approximately 1.4 billion, its per capita steel consumption (~108 kg) remains significantly lower than that of China (~601 kg) and the global average (~215 kg), indicating substantial growth potential.

Under the **National Steel Policy 2017**, India aims to:

- Achieve **300 million tonnes per annum (MTPA)** steel capacity by FY31
- Increase per capita consumption to **160 kg**
- Attract investments of approximately **INR 10 lakh crore**

Looking ahead, India targets **500 MTPA crude steel capacity by 2047**. Notably, the **secondary steel sector** is expected to contribute around 40% of total production—an aspect unique to India.

Simultaneously, the industry faces increasing pressure to transition towards **green steel production**, aligning with India's **net-zero target by 2070**, announced at COP26.

Despite abundant reserves of iron ore and non-coking coal, Indian steel producers face challenges such as:

- Dependence on imported coking coal and critical raw materials
- High capital and energy costs
- Elevated logistics expenses
- Continued reliance on imported technology

Sustainable growth will depend on **technological innovation, efficient resource utilisation, and reduced environmental impact**. Notably, energy consumption per tonne of steel has already reduced to nearly **40% of 1960 levels**, demonstrating significant progress.

WHY ATTEND THIS SEMINAR

This seminar offers a **unique global platform** to engage with:

- Industry leaders and policymakers
- Technology providers and equipment manufacturers
- Plant operators and engineers
- Researchers and academic experts

Participants will gain exposure to **cutting-edge technologies, operational strategies, and process innovations** shaping the future of the steel industry.



PARTICIPANTS & SPEAKERS

TATA STEEL, SAIL, IISCO, RINL, AM/NS, JSW, JSPL, TBSL, NMDC, MOIL, CIL, AJ Global, Vedanta Group, Kalyani Steel, Shakambhari, Rashmi, Shyam Metalics, IMR, Elegant, Sharp Ferro, Shyam Ferro, Tirumala Balaji, Jai Balaji, Danieli, Midrex, Primetals, SMS Group, Tenova, Fives, Metsco Outotec, Qoncept, FOSBEL, Bathurst New Zealand, IMFA, JAMIPOL, Vedanta Group, ATMASTCO, RAWMET, Paul Wurth, Thyssenkrupp, TRL Krosaki, HUDE, Nippon Steel, ACRE, SEDIN, SDM, Sino-Steel, Giprokoks, Sharp Ferro, Jindal Stainless Steel, VISL, Rimjhim Steel, Secondary Steel Producers, Ion Exchange, Thermax, IBM, Deloitte, PwC, DNV, RgCON, Kleenair, MN Dastur, MECON, DGFT, TM International, Educational and Research institutes (IIT, CIMFR, JU, KNU etc.) NML, IMMT, DGFT, INSDAG, IISSSC and many more....

STEEL TECH's annual International Seminars are very popular, with a large number of speakers and participants from India and overseas.

DO NOT MISS THIS UNIQUE OPPORTUNITY

KEY ISSUES LIKELY TO BE DISCUSSED

1. Technology, Equipment & Research

- Adoption of advanced technologies for sustainability and competitiveness
- Lifecycle cost-based technology selection
- Indigenous manufacturing of steel plant equipment
- Continuous innovation through R&D



2. Innovation & Green Steelmaking

- Efficient utilisation of India's high-ash coal and iron ore
- CO₂ emission reduction strategies (currently ~2.5 t per tonne of hot metal)
- Hydrogen-based steelmaking and carbon capture technologies
- SOEC applications enabling hydrogen economy integration
- National Green Hydrogen Mission (target: 5 MTPA by 2030)
- Water Management (Reduce, Recycle, Re-use, Zero Liquid Discharge)
- Expansion of secondary steel sector (~40% contribution)



3. Steel Rolling Developments

- Growth of Endless Strip Production (ESP)
- Production of ultra-thin hot rolled coils
- Improved efficiency, quality, and sustainability





4. Raw Material Security

- Reducing dependence on imported coking coal (~85% currently imported)
- Enhancing ore beneficiation and blending
- Securing critical minerals (nickel, chromium, magnesium) & Raw Material such as Iron Ore, Coal, Coke, Refractories, Ferroalloys etc.
- Managing global trade volatility
- Recover, Recycle, Reuse of Waste Material & Scrap.

5. Supply Chain & Logistics

- Logistics cost optimisation (currently 20–25% of total cost)
- Multimodal transport solutions
- Use of slurry pipelines and on-site beneficiation
- Managing geopolitical disruptions and energy price volatility
- CBAM and its effects such as embedding costs into imports

6. Power, Energy & Sustainability

- Green energy integration
- Water management: Reduce, Recycle, Reuse, Zero Liquid Discharge

7. Digitisation & AI

- Smart manufacturing and process optimisation
- Predictive maintenance and quality control
- AI, IoT, and Industry 4.0/5.0 adoption
- Improved safety, efficiency, and cost reduction

8. Brand, Safety & Environment

- Building strong brand value
- Environmental stewardship and community engagement
- Ensuring highest safety standards





ABOUT THE ORGANISER

STEEL TECH is a reputed quarterly technical journal published from Kolkata, featuring cutting-edge developments in steel technology. It is widely respected across industry, academia, and research institutions.

Its Editorial Board comprises leading industry experts, scientists, and academicians.

SEMINAR PROGRAMME (BRIEF)

- 09:00 – 10:00 | Registration & Tea
- 10:00 – 11:00 | Inaugural Address & Keynote
- 11:00 – 12:00 | Panel Discussion & Q&A
- 12:00 – 13:45 | Technical Session I
- 13:45 – 14:45 | Lunch
- 14:45 – 17:00 | Technical Session II
- 17:00 – 17:30 | Valedictory Session
- 17:30 – 18:00 | Tea & Networking

PARTICIPATION DETAILS

DELEGATE FEE

- : INR 10,000 per person for Indian participants
- : INR 5,000 per student participant
- : USD 200 / Euro 200 per person for overseas participants

#PLUS GST of 18%

SPONSORSHIP

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- Associated Sponsor** : INR 1 Lakh (USD 1,600 / Euro 1,500) (includes 3 free delegates + full page colour advertisement)

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EXHIBITION

- Poster Display** : (3 Ft X 2 Ft) Max : Rs. 15,000 / USD 250 /Euro 250 per Poster
- Size of Stall** : (2 X 2 M) or Multiple : Rs. 20,000/Sq M (USD 280/Euro250)

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(will be covered in the October 26 issue of **STEEL TECH**)*

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ADDRESS FOR COMMUNICATION :

Mr. B P Sarkar (CONVENER)

Email: Sarkar.bp@gmail.com

Mobile: +91 98305 30224

Mr. J K Chatterjee (CO-CONVENER)

Email: jkchatterjee916@gmail.com

Mobile: +91 98300 22261

Mr. P K SEN (CEO & Editor)

Email: psen2008@yahoo.co.in

Mobile: +91 92306 39343/ 87773 41510

Mr. Arnab Banerjee (Jt. CONVENER)

Email: i_arnab@rediffmail.com

Mobile: +91 84508 14381

Website: www.steeltech-india.com

Email: info@steeltech-india.com

For booking rooms at the Taj Bengal, 34-B, Belvedere Road, Alipore, Kolkata – 700027
please contact Tel (dir.): 033 6612 3939

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