

INTERNATIONAL SEMINAR

Organized by

**STEEL
TECH**

ON



Application of AI and other tools for the Cost-effective & Sustainable Steelmaking



10th October, 2025

Friday

Taj Bengal

Kolkata, India



STEEL TECH

www.steeltech-india.com



INTERNATIONAL SEMINAR



STEEL TECH

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STEEL TECH's annual International Seminar began in 2009, initiated by our founding Editor, the Late Dr Amit Chatterjee, and quickly gained popularity for its uniqueness. A large number of speakers and participants attended the seminars, both from domestic and overseas. The rich content, interactive deliberations, and networking opportunities were its special attractions. We continued the saga, and this 20th seminar in the series will discuss transforming the steel industry sustainable by using AI, Research, Modern and Latest Technologies (including Low-Carbon), Managing Complex Supply Chains of Raw Materials and Goods, Modernising the plants etc. It will surely be of great interest to the participants.



Background

India is the second largest Steel producer in the world. Its population is close to 1.4 billion almost the same as that of China but per capita consumption of steel is ~ 98 Kg compared to global average of 221 and China's ~ 635 Kg. National Steel Policy 2017 of India by the Ministry of Steel aims to reach 300 Mtpa steel capacity with an increased finished steel per capita consumption of 160 Kg by FY31. This will entail additional investment of INR 10 Lakh Cr by FY31. India also aims to reach 500 Mtpa of crude steel capacity by 2047. The Secondary Sector is expected to produce over 30% crude steel, which is unique for India. Like elsewhere in the world, there is pressure to produce green steel for the survival of the industry charting a pathway for sustainable growth. At COP26, India set out its plan to help slowdown and halt global warming, with a **net-zero** target by 2070.



Although India has vast reserves of non-coking coal and iron ore, production cost in Indian steel plants is higher due to various factors like high interest rates for the capital; dependence on imported coking coal, raw materials for refractory making, additives like Ni for stainless steel, etc. Energy cost is also high due to higher electricity tariff. The logistic costs in India is much higher compared to other steel producing countries though Govt is taking massive steps to improve the infrastructure of the country. Moreover, **Indian steel plants** are still and majorly dependent on imported technology and equipment supply for new plants or brownfield expansion. Production of green steel will also call for imported technology.

For the **steel industry** the challenge of sustainability is crucial due to environmental problems causing climate change and need to conserve natural resources and promote circular economy. The development of new technologies is the road towards achieving the goals of reducing pollutant emissions and using resources (raw material, water, energy) efficiently. This effort is continuous and it is seen that the energy required to produce a tonne of steel today is ~ 40% compare to the amount required in 1960.



Why Attend This Seminar

The seminar will provide a **unique opportunity** to interact with Doyen of Industries, Technology Suppliers, Designers, Operating Personnel, Researchers, Academia and many other involved with Metal Production, Processing from across the world. The **latest technological developments** in production/usage as well as process control techniques will be deliberated in the seminar.

Participants & Speakers

TATA STEEL, SAIL, IISCO, RINL, AM/NS, JSW, JSPL, TBSL, NMDC, MOIL, 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, Metsco Outotec, Qoncept, ATMASTCO, 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, JU, KNU etc.) NML, IMMT, DGFT and many more... .

STEEL TECH's annual International Seminar has remained very popular in which a large no. of speakers and participants from India and overseas **attend**.

DO NOT MISS THIS UNIQUE OPPORTUNITY

Key Issues Likely To Be Discussed



Technology, Equipment & Research

- ◆ Adoption of **Latest Technologies and Equipments** help to remain sustainable and competitive. Life cycle cost to be the basis for selection of technology besides the nature of indigenous raw materials availability, need to **restrict CO2 emission** at all stages, meeting customers' requirement in respect of quality and sizes.
- ◆ Aim to **reduce cost of production** through high efficiency in operation, ability to use wide variety of raw materials, flexibility in production of finished steels at various combination of sizes and meeting other quality requirements.
- ◆ Manufacturing of steel plant equipment in India is a must to reduce cost of procurement and reduced Lead Time.
- ◆ Research is inevitable to develop new technology and for the sustenance. **Technology Developers and Suppliers** to discuss their achievements and supply/

Innovations

- ◆ As **India** has large reserves of high ash non-coking coal and iron ore fragile in nature, innovative technology is required for production of DRI and Liquid hot metal.
- ◆ CO2 emission is high in **Indian steel plants**– around 2.5 t per ton of HM. For existing BF, coke rate need to come down drastically through injection of Pulverised coal, natural gas and H2. Carbon capture & Usage is vital for Indian plants if they want to utilise the non-coking coal availability. Commercial applications is still at nascent stage. R&D need to work on this.
- ◆ **Green Steelmaking** – The steel industry stakeholders to deliberate and take necessary steps for its sustainable future.

Supply Chain / Logistics

- ◆ **Logistic** cost is almost 20-25% of the total cost for steelmaking. Multimodal transport is the call of the day. It's designed to streamline shipping, **reduce costs**, and **improve delivery** efficiency across long distances. It is a logistics strategy that uses a combination of two or more modes of transportation, like road, rail, sea, or air, depending on the route and cargo type, under a single contract to move goods from origin to destination. To reduce costs and for faster transportation of raw materials, other transport modes, such as slurry pipelines, are also used. Beneficiation of ore and coal at mines site, Service Centre near the plant to cut exact sizes required by customers, etc.

Power & Energy

(Including Green Energy)



Water Management

(REDUCE, RECYCLE, REUSE, ZERO LIQUID DISCHARGE)

These are essential for conserving water, minimizing pollution, and promoting sustainability – especially in industries and urban planning.

Digitization & AI

The steel industry is undergoing a digital revolution, with **digitisation** and **artificial intelligence (AI)** transforming everything from production to sustainability. They are being applied in places like Smart Manufacturing & Process Optimisation, Quality Control and Defect Detection, Predictive Maintenance, Supply Chain & Inventory Management, Sustainability & Energy Efficiency, Workforce & Safety Enhancements, R&D and Product Innovation, etc.

- ◆ No plant in this era can be sustainable and make a profit without recourse to Digitization and implementing Industry 4.0. The various areas mentioned above can be inducted to be discussed at affordable costs.
- ◆ Digitization and use of **AI / IoT / Machine Learning /  ChatGPT** etc. will help in reduction of man power and increased safety for people working besides achieving better quality products with less rejection. Industry 5.0 adds a personal human touch to Industry 4.0 pillars of automation and efficiency.

Brand Image, Safety & Environment

Company's brand image to be developed over the years to allow higher prices and retention of customers. **Environment** is one of the Key Issue for sustainability and make the local Society and people as Partner. Safety is always the most important for all.





About The Organizer



STEEL TECH is a reputed technical journal published quarterly from **Kolkata**. It features technical articles involving steel technology for today and tomorrow. The journal has received widespread acclaim from within the industry, research as well as academic institutions. The Editorial Board of the journal consists of luminaries in the **Indian steel industry**, including top executives of major steel plants, well-known scientists in research organizations and academicians of repute.



Brief Seminar Programme



09.15 - 10.00	Registration & Tea Session
10.00 - 11.00	Address by the Guests of Honors & Keynote Speaker
11.00 - 11.45	Panel Discussion & Q&A
11.45 - 12.00	Tea Break
12.00 - 13.45	Technical/Commercial Session 1
13.45 - 14.45	Lunch
14.45 - 17.00	Technical/Commercial Session 2
17.00 - 17.30	Valedictory Session and Vote of Thanks
17.30 - 18.00	Tea, Networking

Participation Details

DELEGATE FEE

INR 10,000 per person for Indian participants

INR 5,000 per Student participants

USD 200 / Euro 200 per person for overseas participants

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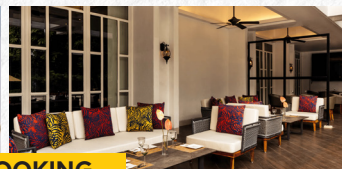
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