



STEEL TECH

INTERNATIONAL SEMINAR

Organised by



STEEL TECH

on

GREEN STEELMAKING - SUSTAINABLE TECHNOLOGY FOR INDIAN STEEL INDUSTRY

&

Sourcing of Steel Plant Equipment in India



Date : 21st October, 2022(Friday)

Venue : ITC Royal, Kolkata

Background:

In view of the climate change, Green Steelmaking route is being tried globally for the survival of the industry. For that H_2 is being considered as a future reductant in place of Carbon. However, Green H_2 is very expensive unless enough renewable energy is produced at a reasonable cost. Therefore, suitable technology is to be developed to produce H_2 at an economic cost. To reduce global footprint of their products many user industries such as some global auto-makers are contemplating to procure steel made through green route.

India is also taking steps to become net zero emission by 2070 and therefore industries including steel to follow suite to meet this deadline. As per GOI, the capacity of steelmaking will become 500 million tonne (Mt) by 2047. Keeping in pace, Indian steel plants are going for massive expansion both greenfield and brownfield. However, BF-BOF route is still being followed and considered. Since life of such capital intensive plants need to be more than 30 years to get return on investment, are these BF-BOF route viable?

JSPL has invested in coal gasification and also in direct reduction process in addition to conventional BF route. This route has reduced GHG compare to conventional BF-BOF route.

India has vast reserve of non-coking coal and to remain competitive, the country needs to use this fuel. Then, can CCS route is the solution for India? Tata Steel is the first steel company in India to commission India's first plant for CO_2 capture from BF gas. Similarly, other major steel companies are taking steps of the journey towards decarbonisation.

This seminar is expected to get these answers from experts, researchers, technology providers/suppliers and to listen from major steel players for the action being taken by them in this journey.



Do not miss this unique opportunity



KEY ISSUES TO BE DISCUSSED

Innovations:

- Use of Fossil Fuels with Carbon Capture & Storage (CCS)
- Hydrogen-based Ironmaking
- Clean Power to Fuel Hydrogen-based Ironmaking
- Direct Electrolysis Ironmaking
- Roadmap towards achieving Carbon-neutral Steelmaking by 2050 through Breakthrough Technologies

Technology:

- Adoption of Latest Technologies to remain Cost Competitive and Sustainable
- Technology Suppliers (International & Domestic)
- Production of Steel Plant Equipment in India under 'Make in India' Program

Logistics:

- Improvement in Logistic, Infrastructure, Scrap Recycling, Downstream products manufacturing in the Eastern region

Indian Steel Industry:

- Path to Achieve 300 Mt and 500 Mt Crude Steelmaking Capacity by 2030-31 & 2047 respectively, PLI Schemes to achieve import substitution etc.
- New Green-field Steel Plants & Expansion of Brownfield Steel Plants in India

Robotics & Digitisation:

- Digitisation & Robotics to produce Quality Steel with Zero Accident in Steel Plants

Safety, Health & Environment:

- Development of Environmentally Sustainable New and Stronger Steel Products

PARTICIPATION AND SPEAKERS FROM:

- | | |
|-------------------------------|---------------------------|
| ★ Ministry of Steel and Mines | Tenova ★ |
| ★ Danieli | Metso Outotec ★ |
| ★ SMS group | Secondary Sector Plants ★ |
| ★ Primetals Technologies | Kleenair ★ |
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| ★ JSW Steel | M N Dastur & Co ★ |
| ★ JSPL | Mecon ★ |
| ★ AM/NS | NML ★ |
| ★ Vedanta group | IMMT & many more... ★ |
| ★ Adani | |

WHY ATTEND THIS SEMINAR?

The Seminar will provide a unique opportunity for Metal producers to interact with Ministry Officials, Technology Suppliers, Designers, Operating Personnel, Researchers, Academicians and Others in the Industry involved with Metal production and processing from across the world. The latest technological developments in production / usage as well as advanced process control techniques will be deliberated upon in this Seminar.

You should not miss this opportunity to participate in this Event. Please register NOW



PARTICIPATION DETAILS

PARTICIPATION FEE *

- : INR 5,000 per person for Indian participants
- : INR 2,500 per Student participants
- : USD 200 / Euro 200 per person for overseas participants
- *+ GST of 18%

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For booking rooms at ITC Royal Hotel,
Kolkata , India, Please contact (91) 33-23454545





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BRIEF SEMINAR PROGRAMME

09.15 -10.00	: Registration & Tea Session
10.00 -11.00	: Address by the Chief Guest, Guests of Honor & Keynote Speaker
11.00 -11.45	: Panel Discussion & Q&A
11.45 -13.45	: Technical/Commercial Session 1
13.45 - 14.45	: Lunch
14.45 -15.00	: Sponsors Profile Presentation
15.00 -17.00	: Technical/Commercial Session 2
17.00 - 17.30	: Valedictory Session and Vote of Thanks
17.30 -18.00	: Tea, Networking

PROUD TO SERVE THE STEEL INDUSTRY

Steelmakers account for ~ 7% of pollution and it's a challenge to make it Carbon Neutral by 2050

This is the 14th International Seminar being held in Kolkata since 2009 by STEEL TECH. All the past seminars were very successful drawing a large no. of senior personnel from the iron & steel industry from India and Overseas. In so many ways the STEEL TECH Seminar is offering the steel industry a high-tech steel conference focused on the contemporary subjects such as advancement in sustainable technology for iron & steelmaking processes, Industry 4.0, ferroalloys etc. This seminar will focus on GREEN STEELMAKING and the roadmap of achieving Carbon-neutral Steelmaking by 2050 through Innovations and also the path to attend the cherished dream of attaining 300 Mtpa in 2030-31 & 500 Mtpa by 2047.

If you are an Innovator/ Technology Supplier/ Equipment Supplier/ Consultant Steelmaker and have a story to tell our 2022 attendees or want to interact with the galaxy of persons from the steel fraternity, then do get in touch with us as our growing community of high-tech steel industry executives (our delegates) would love to hear about the challenges you face and share with you their experiences of new technologies, artificial intelligence and other facets of digital manufacturing.

Only those who innovate, continue to implement new and latest technologies in their businesses remain competitive. The prerequisite for this development means being constantly informed about the latest and most sophisticated technological advances, exchanging ideas and initiating and expanding networks with clients, partners and suppliers.

The event offer visitors the perfect opportunity to reach their objectives. At this event you acquire the latest information on new ideas and developments as well as on the state-of-the-art in metallurgical process technologies for iron and steel production, steel materials and steel application.

