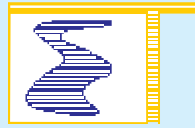


INTERNATIONAL SEMINAR
Organised by



STEEL TECH
on

Ferroalloys Industry of India, Raw Materials & Future Perspective - **Atma Nirbhar Bharat**

Friday, 5th March, 2021 ITC Sonar, Kolkata, India



KEY ISSUES TO BE DISCUSSED

Ferro-Alloys

- International Supply, Demand Balance & Opportunities for India
- Supply of Chrome & Manganese Ore to Ferro alloy Producers
- Innovative Technologies for Reducing Production Cost of Ferro alloys
- Noble Ferroalloys - Availability of Ore and Production process

Raw Material

- Availability of Raw Material for production of Ferro Alloys
- Innovations & Emerging Technologies in Utilisation of Low Grade Raw Materials

- Infrastructure, Modern Logistics
- Ways and means to meet Raw Material Requirement for 300 Mt Crude Steelmaking

Energy & Reductant

- Locating Ferro-Alloy Plant to avail Power at the Lowest Cost
- Utilisation of Waste Heat to Generate Power to reduce Cost
- Sourcing of Reductant at Lower Costs

Conversion

- Tolling Arrangements both in India and Overseas to Improve Profitability

PARTICIPATION AND SPEAKERS FROM:

Outotec, SMS, Pyromet, Trafigura, Tata Steel, SAIL, MOIL, Jindal Stainless Steel, JSW Steel, JSPL, IMFA, Vedanta Group, Adhunik, IMMT, NML, Mecon, M.N. Dastur, Outokumpu & many more...

ABOUT THE ORGANISER

Steel Tech is a reputed technical journal published quarterly from Kolkata. It features technical articles involving steel technology for today and tomorrow. The aim is for faster development of steel industry, including downstream facilities in the eastern region, which is lagging compared to the other regions although it is rich in mineral reserves. The journal has received widespread acclaim from within the industry, research organizations 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 organisations and academicians of repute.

DO NOT MISS THIS UNIQUE OPPORTUNITY

Background

The world crude steel production has reached ~ 1870 Mt crude steel in CY 2019. India ranks second amongst the top steel producing countries in the world with production of ~111 Mt. The per capita consumption of steel in India is just about 74 kg compared to 224 kg world average indicating huge potentiality to grow. The National Steel Policy aims to reach 300 Mtpa by FY31 and requirement of Ferro alloys for production of steel will jump more than double compared to the present level.

India is fortunate to have good resource of good quality chrome ore. However deposit of Mn ore is limited and we are to import Mn ore to meet the production of Mn-based ferro alloys. Energy cost is quite high in India for which China has become competitor in Ferro chrome though they are importing ore. Selection of right sustainable technology to utilise low grade ores and availability of power at reasonable cost will help the indigenous Ferro alloy producers to meet the demand of Indian steel producers as well as export to enable earning of foreign exchange. Digitisation and application of Industry 4.0 need to be adopted for better control, cost reduction and customer's satisfaction.

Ferro-alloys constitute one of the most expensive inputs to steelmaking in a typical Integrated Steel Plant, it amounts to 7-10% of the cost of saleable steel. It is thus important to deliberate on raw materials for steelmaking, emerging technologies in detail for its right selection to remain globally competitive.

Why attend this Seminar?

The Seminar will provide a unique opportunity for Steel/Ferroalloy producers, miners to interact with Technology Suppliers, Designers, Operating Personnel, Researchers, Academicians and Others from the Industry. The latest technological developments in production / usage as well as advanced process control techniques will be deliberated upon in this Seminar. Unique networking opportunity with peers and industry leaders through interactive panel discussions and during lunch/tea breaks.

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Venue

The venue is ITC Sonar, which is centrally located in Kolkata and is a 5 star hotel, having excellent facilities. Keeping in view of the current situation, we shall follow all the norms related to the COVID-19 protocols.

Brief Seminar Programme

09.15 - 10.00	:	Registration
10.00 - 11.15	:	Address by the Chief Guest, Guests of Honor and Keynote Speaker
11:15 - 11:30	:	Tea Break
11.30 - 12.30	:	Technical Session 1
12.30 - 13.30	:	Technical Session 2
13.30 - 14.45	:	Lunch
14.45 - 16.15	:	Panel Discussion, Valedictory Session and Vote of Thanks
16.15 - 17.00	:	Tea, Networking

Participation Details

Participation Fee *	:	₹. 3,000 per person for Indian participants
	:	₹. 1,000 per Student participant
	:	US\$ 300 / € 250 per person for overseas participants

* Additional GST @ 18%

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The Seminar Venue : ITC Sonar at Kolkata

The venue, ITC Sonar is centrally located in Kolkata and is a 5 star hotel having excellent facilities.

Keeping in view of the current situation, we shall follow all the norms related to the **COVID-19** protocols.

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