

BRIEF REPORT ON TECHNICAL PRESENTATIONS ON SUB LANCE TECHNOLOGY FOR BOF SHOP AND HIGH PRODUCTIVITY BLAST FURNACES

Indian Institute of Metals - Delhi Chapter organised technical presentations on the following two topics at our premises on 21st November 2015:

- Sub lance Technology for BOF Shops
- High Productivity Blast Furnaces

At the outset Shri SC Suri, immediate past Chairman, Delhi Chapter, gave an overview about the activities of Indian Institute of Metals, in general, and for Delhi Chapter.



Thereafter K L Mehrotra, Chairman, welcomed the participants in the programme. He gave an introductory remarks about the speakers of M/s



Daniel Corus who were to make the presentations on these two topics. Thereafter, the dais was handed over to the speakers for presentation.

Shri Surat Mishra, in his presentation on **Sub lance Technology for BOF Shops**, touched upon the successful implementation of a sub lance based BOF process control

system in India. He spoke about the advantages of installation of sub lance system. Design and automation aspects of sub lance technology were also discussed. Use of calcium carbide and magnesium in the desulphurisation of hot metal was also discussed. The advantages of sub lance technology results in reduction in tap to tap time, increase in LD productivity by around 20%, increased hit rates, reduction in consumption of fluxes, optimal utilisation of scrap, energy savings and improvement in the refractory linings life and improvement on safety and environmental fronts.





Shri Manish Wadhwa on his presentation on **High Productivity Blast Furnaces** mentioned about the installation of high volume blast furnaces installed by Daniel Corus at SAIL and other steel plants. The use of higher volume blast furnaces results in higher production of hot metal. He also spoke about the 4506 M³ blast furnace being erected by them, on

turnkey basis, at the proposed steel plant of NMDC at Nagarnar, Chhatisgarh. He informed that this will be India's largest furnace to date. It was also indicated by him that JSW is planning to install a blast furnace of 5000 M³ capacity wherein Daniel Corus will play a major role in installation of the same. He also stated that raw material stipulations for larger blast furnaces are more stringent as compared with raw materials for smaller blast furnaces. So the raw material burden for the higher blast furnaces has to meet the critical requirements



After conclusion of the presentations, there was lively question and answer session.

About 30 persons participated in the programme.

Shri G I S Chauhan, Hony Jt. Secretary, proposed vote of thanks.

At the end the speakers were given away mementoes by Chairman on behalf of the Chapter.

The programme concluded with lunch.

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