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गुजरात में लौ और इस्पात के उद्योगों की
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- ✓ Commenced operation in 1964
- ✓ Mini Ratna Category-I PSU under the administrative control of the Ministry of Steel, Government of India
- ✓ Numero Uno position in e-Commerce with 500+ Principals and 50,000+ Buyers
- ✓ Created history through successful conduction of Coal Block Auction in 2014-15
- ✓ Mastered providing seamless and hassle free services in e-auction and e-procurement
- ✓ Launched MSTC Metal Mandi "M3" a virtual B2B and B2C Market place for Metal sector

Features of M3

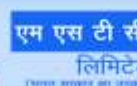
- ✓ An initiative of Ministry of Steel, Govt. of India, M3 is an effort of Central Govt. towards convergence of "DIGITAL INDIA", "MAKE IN INDIA" and "EASE OF DOING BUSINESS"
- ✓ M3 portal offers BIS certified metal products
- ✓ MSTC has tie-up with various banks and NBFC's for extending Credit facilities
- ✓ M3 provide a transparent secure and user friendly interface
- ✓ Wide range of Non-Ferrous Metal Products

Advantage to Sellers

- ✓ Enjoy the wider market exposure and expand your business and customer portfolios
- ✓ Enjoy selling on a digital platform and reduce tedious and cumbersome paper work
- ✓ Saves operation cost towards advertising/branding/promotional publicity
- ✓ "MSTC Metal Mandi" platform supports "pull" type supply management, where a business process starts, when an order comes from a customer and uses just in time manufacturing process. Thus it increases the productivity of the organization
- ✓ Options for price change available on 24X7 basis
- ✓ Opportunities for MSMEs

Advantage to Buyer

- ✓ Shopping in an open, competitive and fully transparent digital environment to get the best price
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- ✓ Enjoy the larger spectrum of products to compare and select the cheaper and better "Made in India" type
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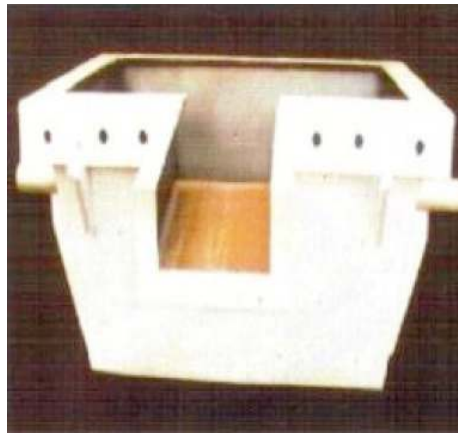
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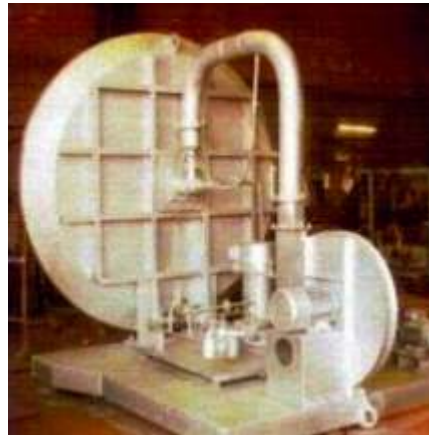
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From President's Desk

Dear Members and Colleagues,

Please accept my Diwali greetings and I wish all the best for New Year 2018 to all of us. May this Diwali brings in new hope for the struggling induction furnace industry and future of steel industry is illuminated in the coming days.



As we are all aware that presently secondary steel sector particularly Induction furnace industry is struggling because of falling prices of steel ingots and rising steel scrap prices. In fact, the international scrap prices are higher by USD 20-30 if landed price is compared with local scrap rates. Because of this a scrap shortage is seen in the market and also because of this the sponge iron manufacturers have not reduced their prices as per the scrap market. This all has resulted into squeezing of margins of our industry. It will not be a surprise if in the coming days the production of our sector is reduced to stem the falling prices and to cover up the shortage of scrap. Our industry is dependent upon import of steel scrap to the tune of 8-10 million tons per annum and if there is a shortfall in this then it cannot be covered by domestic scrap and sponge iron availability.

Above all this, the main steel producers have hiked the prices of flat products mainly HR and CR which has clouded the mind of user industry that steel industry is earning huge profits after the anti-dumping duties imposed on various steel items from China and after the implementation of the GST since 1/7/2017. It may hold good for main steel producers but this is not true for secondary steel sector which is facing problems since GST roll out because of low demand of their products as MSME sector is yet to absorb the effects of GST. Now three months have passed after GST regime and we hope the things will be on track in the near future.

The government on its part is doing whatever is best to make GST a success which can be seen by the recent changes in GST announced by the Honorable Finance Minister Shri Arun Jaitely Ji. This pragmatic approach of the government will go a long way in making GST a star in Indian economy. We hope more action is taken on the representations made by our association on various issues of GST which are nothing but suggestions for a simple tax structure.

Further as intimated our association is going to hold **31st National Level Conference** on **“Strengthening Green Steel Production: Building Pillars for New India”** on **Friday 24th November, 2017** at **Hotel Le-Meridien, New Delhi**, the information of which has already been circulated to all of you. Please mark this date in your diaries and attend this important event in large numbers to make it a grand success.

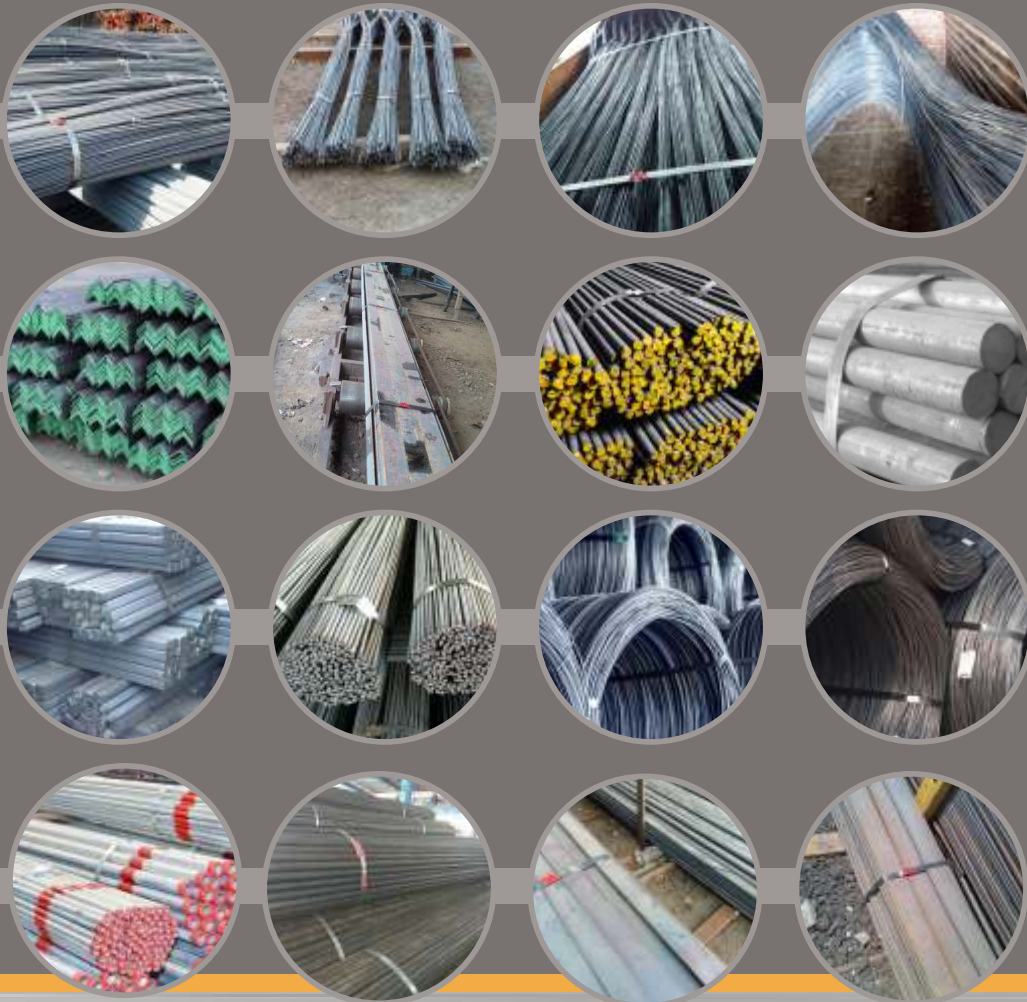
Sandeep Jain



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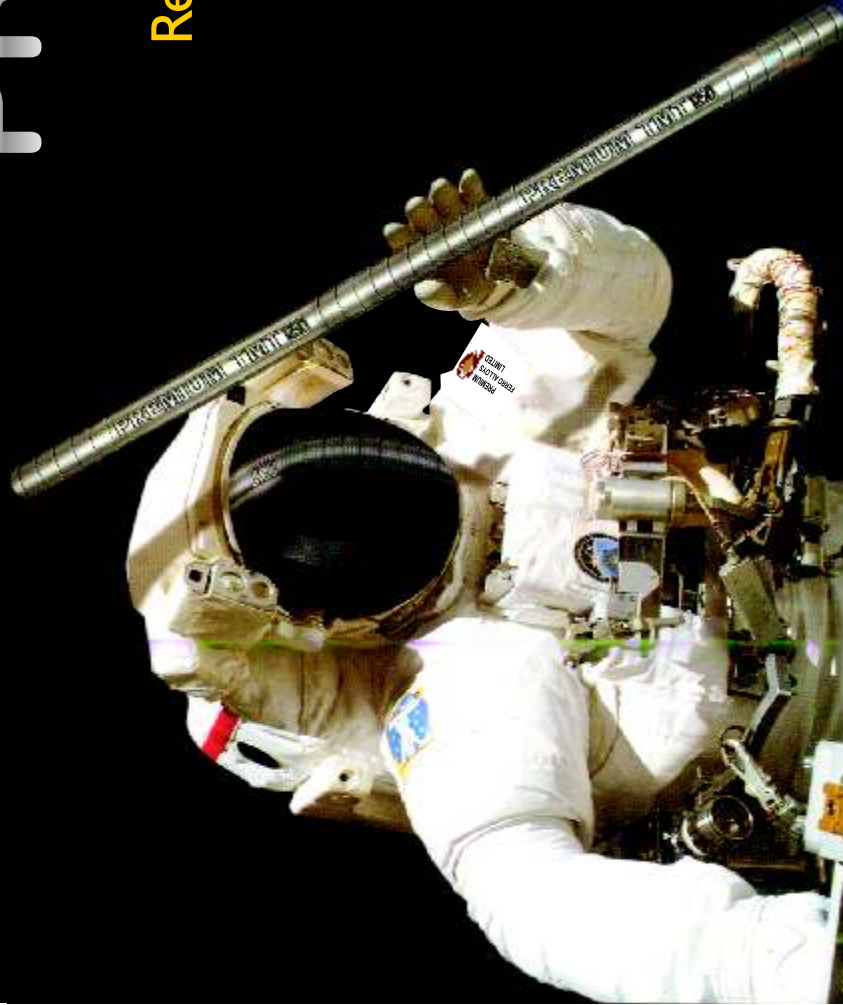
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ENVIRONMENT FRIENDLY STEEL

History of Iron and Steel Making in India: Past, Present & Future Scenario – A Glimpse

A C R Das, Consultant, ERU, JPC, New Delhi

S.K.Bhatnagar, Dy. Industrial Advisor, Ministry of Steel, Government of India, New Delhi

Amitayu Das, Asstt General Manager, Steel Authority of India Ltd., New Delhi

From the inception of human civilization, Process Metallurgy has played its pivotal role in the extraction of non ferrous or ferrous metals from their respective ores/minerals. India was one of the leading nations of the world where quality iron was extracted from low grade iron ores using wood, charcoal as reluctant cum source of energy. Thousands of years back, India was known for its wrought iron and wootz steel throughout the world. Indian craftsmen had achieved process control to produce quality iron products much earlier than the developed countries. The technology of iron making was handed over from one person to another within a limited group. There was a sizeable export trade in iron to the Middle East, Africa, and Greece and perhaps to the far eastern countries also. The metallurgical process underwent a constant improvement through the centuries a tradition that survived upon the 18th -19th centuries. Even many British and other inventors failed to produce iron and steel of similar quality. Charles wood, the In-charge of the Beypur Iron Works mentioned that his company could not produce metal similar to Indian swords used in Indian Mutiny of 1857. Unfortunately this art phased out with the development of new technology during 19th and 20th century. The ancient process of iron making is still in existence in a few interior parts of our country namely in Jharkhand, Orissa, Chhattisgarh and some places in Southern and Eastern India. These practices have undergone very little change over the centuries and reflect the ancient art of iron making.

2.0. The history of modern Iron and steel industry in India is nearly a century old when the Tata Iron & Steel Company (TISCO) was set up in 1907 at Jamshedpur. Subsequently in 1960's & 70's several integrated steel plants were set up under the erstwhile Hindustan Steel limited. Then Visakhapatnam Steel Plant of Rashtriya Ispat Nigam Limited (RINL) came into existence in early 1990's. However, primary steel production continued to be reserved for Public Sector till 1991 when steel industry was delicensed and deregulated. Import of Technology and equipment are also freely permissible. Post-liberalisation, large number of large/small steel plants and processing units has been commissioned in the private sector. Simultaneously existing / older plants have been modernised / expanded. Level of technology in Indian Steel industry has accordingly improved

considerably over the years. Today, India adopts world class Iron making/ steel making facilities producing most of the value added steel products at competitive cost. In the liberalized regime, several foreign companies have set up their 100% subsidiaries in India producing value added steel products. Also a few plants under joint venture mode have been set up. With these measures value added product scenario is improving fast.

Today, total capacity of crude steel is over 125 MTPA which is contributed by integrated steel plants, standalone Electric Arc Furnace & Electric Induction Furnace. Unlike the global scenario, where approx 75%, Steel is produced by oxygen route & 25% by electric route, in India, approx 55% of steel is produced by electric route. However, the NSP projects that the proportion of oxygen steel making route is likely to increase to about 65% by 2030.

Because of historical perspective and raw material constraint, energy / environment scenario in Indian Steel Industry in some of plant is not world class but scenario is changing fast. The specific energy consumption in Indian steel industry varies in the range of 5.68-8.74 Gcal/tcs. Similarly GHG emission intensity (CO₂ emission) is in the range of 2.26 -3.98 T/tcs.

Government of India has launched National Action Plan on Climate Change (NAPCC), which provides a sharper focus on required interventions. The NAPCC is Implemented through eight National Missions. The utmost priorities of this plan are for mitigation and adaptation to combat climate change. The National Mission for Enhanced Energy Efficiency (NMEEE) aims to strengthen the market for energy efficiency by creating a conducive regulatory and policy regime. Under NMEEE, Government has embarked an innovative scheme known as Perform, Achieve and Trade (PAT), as a market based energy efficiency trading mechanism. PAT is legally binding scheme. First PAT Cycle (2012-15) is already over. Second PAT Cycle (2016-2019) is in progress.

During PAT Cycle-I, (2012–2015), there were 67 Designated Consumers (DCs) in Steel Sector which accounted for nearly 25.32 Mtoe accounting for 45% of total energy consumption in the steel sector. Against total targeted energy consumption saving of 1.486 Mtoe under PAT Cycle-I in steel sector, actual saving was 2.10 Mtoe. During PAT Cycle-II (2016-19),

there are 71 DCs in Steel Sector accounting for 40.44 Mtoe i.e. 72% of Energy Consumption in the Steel Sector. Under PAT Cycle-II, the envisaged energy consumption saving to be assessed in 2018-19 is 2.14 Mtoe.

MoEF & CC submitted the country's INDCs to UNFCCC thereby committing to reduce GHG emission per unit of GDP by 33-35% by 2030 from the 2005 level. Ministry of Steel submitted its INDC on Iron & Steel sector to MoEF & CC after extensive deliberations with stakeholders indicating reduction from 3.1 T/tcs in 2005 to the emission intensity to 2.64 T/tcs by 2020 and 2.4 T/tcs by 2030 i.e. approximately 1% reduction per year considering both BF-BOF & DRI-EAF process routes. To achieve

these targets, investment to the tune of Rs 52,000 Cr may be needed. Ministry is reviewing the status in consultation with industry to firm up the figure. In a recent review meeting, most of Integrated Steel Plant committed to achieve the target. Of late, Ministry of Steel has setup a Working Group to revised & finalize the targets for submission to MoEF & CC.

Under the modernization and expansion plan, the integrated steel companies are implementing energy efficient clean and green technologies with an aim to reduce resource consumption and GHG emission intensity. During these programs, emphasis is given towards recovery of waste heat/energy which has so far been a weak point in Indian Steel Sector. Further, a few new plants have recently been set up adopting state of the art clean and green technologies. It is thus expected that over the year, energy and environment scenario of Indian integrated steel sector is bound to improve.

Besides the above, under bilateral program, New Energy and Development Organization (NEDO) under Ministry of Economic Trade and Industry (METI), Japan has been helping Indian steel plants by providing waste heat recovery systems under NEDO Model Project Scheme. Under this scheme, Coke Dry Quenching (CDQ) and Blast Furnace Hot Stoves waste Gas Recovery System have been set up in Tata Steel Limited, Jamshedpur. Sinter Cooler Waste Heat Recovery Systems has been set up at Rashtriya Ispat Nigam Limited (RINL), Vishakhapatnam. One more project on EMS at ISP, Burnpur is under progress.

The energy and environment scenario in the secondary steel sector, which contributes substantially in overall production of iron and steel product, has also not been up to the mark. Under this background, United Nation Development Program (UNDP)- Global Environment Facility (GEF) in association with Ministry of Steel took up a dedicated project aimed at reducing energy consumption and CO₂ emission. Phase-I of the project has been completed whereby 20-45% reduction per unit was

achieved. Subsequently, UNDP- AuSAid-MoS Project was taken up and thereby 5-15 % GHG emission was reduced per unit. Third Phase is in conceptual stage. It is proposed to cover about 1100 units in secondary sector. The projected GHG Reduction would be up to 30% per unit.

R&D scenario and investment in Indian steel sector is not very bright. Ministry of Steel therefore is supplementing the R&D initiatives of the research laboratories, academic institutions & steel industry by providing financial assistance for pursuing the R&D through Steel Development Fund. This scheme was launched in the year 1997-98. Apart from this, Ministry of Steel is also providing financial assistance for the R&D projects through Government of India Fund: This scheme was launched in the year 2009-10. The focus of the R&D is for development of innovative Products & Processes, Improvement in plant efficiency parameters, cost reduction, reduction in energy consumption & GHG emission. R&D projects completed so far are yielding benefits in terms of improvement in productivity, energy efficiency and environmental emission of the steel sector.

Secondary steel sector, particularly induction furnace units suffer with quality related issues primarily because refining of steel is not possible in induction furnaces. Because of this, quality inputs (Billets/ingots) are rarely available for re-rolling for production of construction steel. To address these problems being faced by the sector, Ministry of Steel has taken several R&D projects in association with NML, Jamshedpur and National Institute of Secondary Steel Technology (NISST), Mandi Gobindgarh. Lab scale and Industrial trials show encouraging results, which are proposed to be commercialized in due course. It is also satisfying to note that off late new innovative secondary refining technologies have been developed by some of Induction Furnace manufacturers. These initiatives may go a long way in making available quality steel in this sector.

Indian Steel Industry is continuously modernizing / expanding to improve its technological profile and to reduce energy & GHG emission intensity. The steel industry is also pursuing several approaches for mitigation of GHG emission under the ambit to Nationally Determined Contributions. To remove the constraint of Iron Ore, several new facilities are coming up for beneficiation, and agglomeration (Pelletization). Ministry of Steel is also encouraging through R&D programme for removing the constraints in raw material, particularly in the area iron ore and coal. Because of technical and R&D interventions, it is expected that Specific Energy Consumption and GHG emission will reduce considerably. Accordingly, it is expected that total GHG emission intensity from the steel sector will be much lower than the business as usual scenario.

Strengthening Green Steel Production

- Building Pillars for New India

November 24, 2017

Hotel Le-Meridien, New Delhi, India

AIIFA's 31st
National
Conference

Organised by



All India Induction Furnaces Association



INVITATION

Dear Attendees,

We are glad to announce AIIFA's 31st national conference on

“Strengthening Green Steel Production: Building Pillars for New India”

to be held in Hotel Le-Meridien, New Delhi, India on **24th November 2017**.

The conference is being organized by All India Induction Furnaces Association with generous support, guidance and cooperation from the Government of India, enthusiastic steel fraternity, leading associations and key stakeholders of the sector.

This conference is a unique platform for strengthening the secondary steel sector and increasing its importance in the country's economy; thus building pillars for a New India. Come and be part of this national conference where government, associations, steel producers, technology providers, policymakers and all associated stakeholders of the Indian secondary steel industry will share their views and analyze the challenges and opportunities ahead.

We look forward to personally welcoming you at the grand event.

Sincerely,
Organizing Committee

ABOUT THE ORGANISERS



The All India Induction Furnaces Association (AIIFA), established in the year 1987, carries with it a legacy of being one of the premier industry associations in the country, representing a significant section of the secondary steel units who are involved in steel melting and processing through Electric Induction Furnace route. For the last three decades, AIIFA has been predominantly active in representing the interests of the sector. AIIFA's role has not been limited only to representing industry specific 'issues', but also in creating awareness and supporting the industry to upgrade and update continuously towards a sustainable future. AIIFA has often acted as a bridge between the Government and the industry in driving various schemes, participating in the Government's research drives and ensuring capacity enhancement of its units.

DELEGATES FEES:

There is no Delegates Fees for members. A nominal amount of Rs. 5,000/- plus GST will be charged from non-members towards Delegation Fees. However, the National Council of AIIFA on its special discretion will be able to waive of the Delegation Fees on special cases.

For registration and other queries please visit to our event website:
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- Your contribution towards R&D Fund, Building Fund and Training & Capacity Building Fund is exempt from imposition of GST, accordingly you are not liable to deduct any TDS on contribution to these funds.
- Any payments for Sponsorship will attract GST @18% and the payer is supposed to deduct TDS.

ABOUT THE CONFERENCE

AIIFA's 31st National Conference has been designed under the pertinent theme of "Strengthening Green Steel Production: Building Pillars for New India". The strong efforts made by the organizers aim at bringing the entire secondary steel sector under a common umbrella; making consolidated efforts to solve the sectoral issues; strengthening the sectoral presence and importance and building foundations for a sustainable future.

With its crude steel production reaching over 100 Million tonnes (MT); India stands high in the global steel market with an ambitious target of the government on producing 300 Million tonnes (MT) by 2030. Amidst the lucrative national figures and rising importance of India in the global steel industry, environment of the steel sector remains a fact.

The reasons for such volatile conditions of the steel sector can be cited to a number of factors like demand deficiency, decline of trade competitiveness and surge in imports, financial fragility, excessive taxation, low availability of skilled manpower, among others. The future of secondary steel manufacturing especially the small and medium enterprises can be bleak; unless the entire fraternity comes together and face the road-blocks under joint efforts.

The 31st national conference organized by AIIFA is one such opportunity for the entire secondary steel fraternity to come and display our strengths and build foundation for a sustainable future.

WHO SHOULD ATTEND

- **Electric Induction furnace and Arc Furnace units**
- **Continuous Castings and Rolling Mills**
- **Sponge Iron Units**
- **Equipment manufactures / suppliers contributing to the sector**
- **Engineering consultants / experts contributing to the sector**
- **Suppliers for coal, melting scrap and DRI**
- **Government Agencies**
- **Eminent Metallurgist**
- **Financial Institutes / Banks**
- **Environment Management Companies**
- **Production / Project Managers from steel industry**
- **Bilateral / Multilateral funding agencies**
- **Technical Institutes (Government / Private)**
- **Students with aim to build their career in steel industry**
- **International technology providers**
- **State Level Associations**

KEY DISCUSSION POINTS

- **Power tariff and its impact on the Indian secondary steel industry**
- **GST: Opportunities and Challenges for the Indian Steel Sector**
- **Power Generation through Renewable Energy – Prospects and Challenges**
- **Energy Efficiency for a sustainable steel industry: Need and future road map**
- **Latest trends and technology for cost effective steel production**
- **Strengths and capabilities of secondary steel sector**
- **National Steel Policy -2017 and its implications on secondary steel sector**
- **Quality steel production: ways and means**
- **Value addition of steel through Induction furnace route**

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All India Induction Furnaces Association (AIIFA)

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Email: aiifa6@gmail.com; aiifaevent2017@gmail.com

Website: www.aiifa.org; www.aiifaevent2017.org

Steel consumption up 4.6% in August, exports rise 36%

India's steel consumption in August rose by 4.6 per cent to 7.416 million tonnes (mt) over the corresponding month last year and exports in the last month grew by 36 per cent, a steel ministry's report said on Thursday.

"Overall consumption at 7.416 mt in August 2017 was up by 7.4 per cent over July 2017 and was up by 4.6 per cent over August 2016," said the report of the ministry's Joint Plant Committee (JPC)..

According to it, India's consumption of total finished steel saw a growth of 4.4 per cent in the April-August period of the current fiscal to 35.329 mt over the same period last year, under the influence of rising production.

Exports of total finished steel increased by 57.1 per cent to 3.73 mt in the April-August period over the same period last year and overall exports at 0.923 mt in August were up 20 per cent over the previous month but grew by 36 per cent over the year-ago month.

However, import of total finished steel at 3.458 mt in

the first five months of the current fiscal grew by 15.9 per cent over same period last year. "Overall imports in August 2017 at 0.955 mt was up by 20 per cent over July 2017 and was up by 62 per cent over August 2016," the report said.

Also Read: Aluminium hits five-year high as China supply cuts loom

India was a net importer of total finished steel in the last month and maintained its net exporter status in the first five months of the current fiscal. According to the provisional data released by JPC, production for sale of total finished steel in August was at 8.776 mt, up 2.3 per cent over the year-ago month.

"Production for sale of total finished steel at 43.205 mt registered a growth of 5.9 per cent during April-August 2017 over same period of last year," the report said.

During April-August, the ISP (Integrated Steel Plant) producers produced 25.23 mt, which was a growth of 12 per cent while production for the other producers during the period was up by 0.3 per cent.

Source: auto.economic times

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SALE & PURCHASE

Induction Furnace Equipment For Sale in Ludhiana

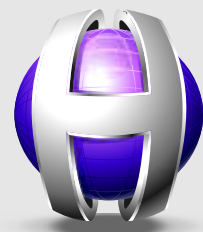
1. Capacity ; 6 Ton 2200 kw
 2. Make: Electrotherm, year 2005-06
 3. Double converter
 4. Complete with transformer and two crucibles
 5. Transformer 2500kva 11Kv/850v/850v, T&R make
- Furnace in running condition and can be inspected with prior appointment.

Contact: **Sandeep Jain** M: +91-9814021521

Induction Furnace For Sale

1. Capacity: 6 Ton 2200Kw
 2. Make: Electrotherm, Year 2005-06
 3. Double Converter
 4. Complete with transformer and two crucibles
 5. Transformer 2500 KVA, 33KV/ 850V/ 850V, T&R make
- Furnace in running condition removed and stacked can be inspected with prior appointment.

Contact: **Jitendra P. Gandhi** M: +91-9823071945 (Kolhapur, Maharashtra)



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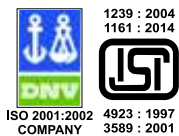
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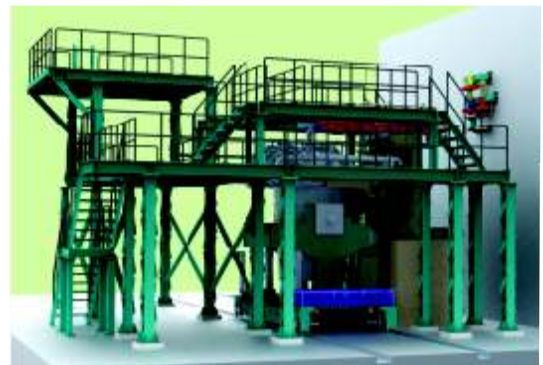
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