STEELWORLD

Devoted to Iron & Steel Industry

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- **MSME steel sector looking for government infrastructure spending support**
- **Exports of Iron Fines 57 Fe and below**
- **VCAP – Advances in Steel Melting through Induction furnace**

Yogesh Mandhani
President, Steel Manufacturers Association of Maharashtra

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STEELWORLD
Devoted to Iron & Steel Industry

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D. A. Chandekar
Editor

Dear Readers,

In mid eighties, when I joined a steel producer as GET (Graduate Engineer -Trainee), steel production and processing was altogether a different ball game. Apart from an EAF and concast, we had a small manually operated rolling mill where the labours used to feed the hot billet in between the rolls using long tongs. This process was repeated from both sides of the rolls every time changing the billet face. Quite a risky operation considering very few safety gadgets these labours were wearing. With no concept of 'housekeeping', the shopfloor environment was very dusty and dirty. Labour unions were very strong at that time and undoubtedly the bosses of the shopfloor were not the managers or the supervisors but the rowdy union leaders. Naturally the fresh GETs like us felt out of the place and also somewhat unsafe. Spending professional life in such a shady place after studying engineering can not be anybody's dream. I think this was the main reason why 'Metallurgy' was the last preference of all the engineering streams prevailing at that time. Many colleges would not even have this branch. Even the salaries in steel plants were no way comparable with other industry verticals like auto, electrical, engineering etc. Further, many big steel plants are situated far away from the big cities, offering limited opportunities for socialising and entertainment. Those were the times with no mobiles and only one or two channels on the TV. Why would a young engineering graduate join this industry unless all the other options are exhausted ?

Since then in last about three and half decades, the iron & steel industry has surely changed its style of functioning , both in the office as well as in the plant. In eighties and ninties, the new management philosophies and techniques like Kaizen, JIT, TQM, Quality Circles were the buzz words in the industry and in almost all the big corporates. The management executives and 'would be' senior management personals would waste lot of professional time in attending these useless training sessions and playing childish games in the name of team building activities, as a part of these sessions. I know some would surely argue from the other side and would definitely have few valid and logical points as well.

The real transition took place by the start of 21st century when modern technologies like automation, ERP started creeping in the industry. Many metallurgical engineers started sitting in AC offices instead of an iron cabin situated at one corner of the shopfloor. Even the meltshops, rolling mills and the other processing lines in a steel plant were now controlled, monitored and operated through central control stations studded with monitors displaying real time figures, graphs and charts. The steel plant salaries too improved over the years and with the explosion in telecommunication sector, now it does not really matter wheather you are in Mumbai or at a remote location in Chhattisgarh.

Today the new concepts like Industry 4.0 are storming the industry but I still feel that the shopfloor is a place which can be made better, with some innovative housekeeping, caring for cleanliness, targeting zero accident weeks and months and consolidating professional work environment.

Write your comments :
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豫兴热风炉

Low nox emission, High High Hot Blast Temperature,

Yuxing top fired stoves with a catenary dome for 2x2850m3 Bfs

Yuxing top fired stove with a catenary dome achieved monthly mean HBT of 1314.7 oC

Conventional 3-section top fired transformed into Yuxing top fired with a catenary dome by cutting the top portion of the existing stove shell

Reference of Yuxing Top Fired Stove for BF with volume 40-50% of China's steel capacity since 2017 to April

Sr. No	Client	BF no	Blast volume Nm3/min
1	Hebei Zongtie Steel	1	7800
2	Hebei Zongtie Steel	2	7800
3	Hebei Zongtie Steel	3	7800
4	Hebei Zongheng Steel	3	8400
5	Hebei Zongheng Steel	4	8400
6	HBIS LaoTing	1	9700
7	HBIS LaoTing	2	9700
8	HBIS LaoTing	3	9700
9	Tangshan RuiFeng Steel	4	8000
10	Tangshan JinXi Steel		6300
11	Tangshan JinXi Steel		6300

Notes: China accounts for 50% of the world's steel capacity, and Hebei
Since 2017 to the present moment, Yuxing top fired stove adoption rate
Total reference nos of Yuxing top fired: 550.

Low nox emission - temperature difference between dome
than 83mg (international standard less than 150 mg)
from 83.5-88.9% (9-10% greater than that for other top
Long life span - Application practice has proven that the
years (the lifetime of the catenary dome combustion
High HBT - Monthly mean HBT of 1314.7 oC delivered
than that by other stove under same conditions)
combustion technology, the lower the better concept is

YUXING

Top 10 Trademark High-end Equipment of Henan Equipment Manufacturing Industry in 2018
International Leading Technology Level Stove project reference nos up to 550, highest monthly mean HBT of 1314.7 deg C achieved in China

Henan Yuxing Engineering & Technology of Hot Blast Stove Co
Henan Hot Stove Engineering Technology Research Center

Efficiency, Long Lifetimes & International Leading Technology

Conventional 3-section top fired stoves for 3x2500m3 BFs converted into Yuxing 4-section top fired by cutting the top portion of the existing stove shell

over 2000m3 at Hebei Province which accounts for 2019, adoption rate of Yuxing top fired up to 84.6%.

	Stove type	Blast time mins	HBT oC
	Yuxing 4-section	45	1250
	Yuxing 4-section	45	1250
	Yuxing 4-section	45	1250
	Yuxing Caternary	45	1250
	Yuxing Caternary	45	1250
	Yuxing 4-section	45	1250
	Yuxing 4-section	45	1250
	Yuxing 4-section	45	1250
	Yuxing Caternary	45	1250
	Yuxing 4-section	45	1250
	Yuxing 4-section	45	1250

province accounts for 40-50% of China's steel capacity.
for BFs with volume over 2000m3 in Hebei reaches to 84.6%.

and HB at 30 oC approximately, nox emission less
Higher thermal efficiency - Thermal efficiency ranging
fired stove)
lifetimes of catenary dome have been in excess of 44
chamber of Yuxing stove over 30 years)
(HBT delivered by Yuxing stove is 15-20 oC higher
Lower air excess - 1.05-1.06 (Associated with
not always right)

3x3580m3 BFs configured with Yuxing 4-section top fired stoves

Internal combustion chamber stoves for 1497m3 BF at JianLong Steel converted into Yuxing top fired with a catenary dome

Add: 23F Kailin International, Jinshui RD, Zhengzhou, Henan China
www.yuxingnc.com
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F: 0086 - 371 - 86122361

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TOTALE
REFRACTORIES CORROSION PROTECTION

MSME steel sector looking for government infrastructure spending support

"The government needs to give extra export incentives to the steel industry thereby promoting exports and increasing demand of Indian MSME steel abroad while also helping the country earn more foreign exchange"

Yogesh Mandhani,
President, *Steel Manufacturers Association of Maharashtra*

Yogesh Mandhani is the President, Steel Manufacturers Association of Maharashtra and the Promoter Director of a leading Steel Manufacturing plant M/s. SMW Ispat Pvt. Ltd (Sangam Steel), Wardha Maharashtra. He possesses bachelor's degree in chemical engineering and MBA (Finance).

Mandhani is from a renowned business family of Jalna district in Maharashtra and is involved in agro-input businesses of seeds, fertilizers, and pesticides manufacturing.

Mandhani was first sworn in as the 11th President of Steel Manufacturers Association of Maharashtra, a premier body of Steel Manufacturing units in Maharashtra, on 26th December, 2014 and subsequently re-elected for uninterrupted fourth term of 2020-2022.

Mandhani is also an Executive Committee Member of Indian Merchants Chamber as well as Committee Member of Material Recycling Association of India's Ferrous Steel arm.

During the period of last 5 years Mr. Mandhani has worked extremely hard for the betterment of steel industry in India because of which the Ministry of Steel, for the very first time has given its sole attention to secondary steel sector and accordingly the Ministry of Steel has abolished the classification of steel manufacturing units as Primary or Secondary. Now, all the players from Steel Industry are treated equally regardless of the manufacturing processes opted by them.

Under the leadership of Mr. Mandhani and on the request of Ministry of Steel the biggest event of MSME Steel sector was organized on 18th May 2018 at Hotel Taj, Mumbai which was attended by more than 500 delegates across the country representing steel Industry, banking and finance, various technocrats of Steel Ministry, representatives of Niti Aayog, Joint Plant Committee etc.

The event was chaired by then Steel Minister Chaudhary Birender Singh and attended by Steel Secretary Dr. Aruna Sharma and Joint Secretary Ms. Ruchika Chaudhary Govil and all high-level officials of Ministry of Steel.

Mandhani's various suggestions have been accepted by Ministry of Steel while drafting National Steel Policy. He also has various meetings with GST council for the issues arising before the taxpayers.

Mandhani is a Prominent Member in Niti-Ayog, Advisor in Labor Welfare Committee under Ministry of Labor and an adviser on GST Council, Government of India.

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Mandhani is equally active in social activities and regularly organizes marathons and community gathering, distributions of books and uniforms to children of Economically Weaker Sections and is always hosting various charities and events.

Mandhani has achieved lots of awards and recognitions at a young age and was recently commemorated with Best Active Entrepreneur Award by ministry of Steel as part of its Secondary Steel Awards.

D A Chandekar, Editor & CEO had an exclusive interview with Yogesh Mandhani, President of Steel Manufacturers Association of Maharashtra and the Promoter Director of a leading Steel Manufacturing plant M/s. SMW Ispat Pvt. Ltd (Sangam Steel) to analyze the impact of Covid-19 on the MSME steel industry and also highlighted the government support is very vital to enhance the demand for the MSME Steel industry.

Excerpts;

How do you analyze the impact of Covid-19 on the MSME steel sector?

In the past one and half year we have heard the word COVID-19 numerous times and rightly so because it has affected every aspect of human life as we know it completely.

I represent Steel Manufacturing Association of Maharashtra and its members who belong to the MSME steel sector, and COVID-19 has changed and affected the market of MSME steel sector.

The crisis caused by this pandemic goes far beyond financial losses and it has almost pushed the economy back by a few years. This crisis comes with opportunities for businesses and growth depending on our next move.

The MSME sector has faced high losses. COVID-19 safety and precaution guidelines have affected businesses and their capacities. While work from home was a possibility for the tertiary sector during the lockdown, it was almost impossible to carry out the same for our MSME sector which affected the volume of business.

We have also noticed that the lower capacity utilization and production in almost all businesses after the first lockdown. However, steel being a labor-intensive sector, production dropped to almost 50% of capacity for all steel plants during the first lockdown and has now come up to 80-90% during the past few months. Bottlenecks in logistics, like higher handling charges is posing a problem in supply chain and is ultimately increasing the production cost.

Could you please tell us more about the present status of steel demand and supply?

Owing to the present situation I would like to present the current steel demand and supply outlook for the country. India's landscape is more rural and less urban which has its own effects on our business. During the first lockdown, we obviously didn't experience any demand other than the completion of previous orders.

However, after the first lockdown was over, a comparatively high demand was observed. A portion of demand came from previously incomplete government projects. Now, these government projects have resumed in full swing. Surprisingly we have witnessed the demand from rural areas where people started investing in personal assets like houses for a safer environment considering COVID and this phenomenon has been increasing since 2020.

There is a shift of investment from urban areas to rural areas wherein the rural population is now investing in their own areas instead of cities. Previously in 2020, in MSME steel clusters like Nagpur, Jalna, Raipur, Indore, Lucknow, Ludhiana, Chennai, Bangalore, Hyderabad and parts of Madhya Pradesh, Chhattisgarh and Uttar Pradesh, steel plants were functioning at 60-70% of their capacity on average. Due to this production costs had increased by almost 8-10%. This cost impact is an especially important factor

for steel pricing and demand in this financial year.

What are the steps taken by SMAM to combat with the Covid-19 situaion?

Our Steel Manufacturers Association of Maharashtra has aggressively taken steps to fight the battle of COVID-19. SMAM has supported its members at every stage by helping in the survival of their MSME steel plants. We have represented the MSME sector in front of the government asking for policy reforms.

SMAM has battled not only the business front but also the social front by helping its members and their workforce who were patients of COVID-19. Our MSME steel industry and the members of our association have helped India and the government in the battle towards COVID-19 in various ways. Many steel plants have started Oxygen generation factories to supply oxygen free of cost to hospitals treating COVID-19 patients. Donations of over 200 O2 concentrators also took place.

All COVID-19 precautions and guidelines are being followed in every steel plant, and distribution of masks, sanitizers, face shields, PPE kits, etc. is ongoing. From donating beds and ventilators to hospitals to constructing COVID-19 centers we have given our best in this fight.

We have represented the government in various ways, and I believe that this is the time for the government to come up with concrete expenditure plans to help revive the MSME steel sector.

A few projects can give an ultra-boost for small MSME producers.

Housing for all under Pradhan Mantri Avas Yojna Scheme owing to COVID precautions wherein a special drive can be executed which will help boost the economy and improve living conditions of many.

Improvement of road and rail infrastructure, public hospitals, irrigation facilities, construction of world class business Conventional Centers and industrial hubs throughout India will not only increase demand for steel but improve the face of overall infrastructure of the country. The government can also focus on developing circular economic parks and in doing so we can achieve the dream of Make in India and Aatma Nirbhar Bharat.

What kind of government support is needed to enhance the demand of MSME Steel units ?

It is obvious that construction and infrastructure projects require more expenditure but there are other policy changes that the government can make to show its support for the MSME steelsector. In today's scenario the Government has stringent norms for MSME steel producers for procurement of steel in government projects.

We urge the government to give a 50% quota to small MSME steel producers for supplying steel for government projects while maintaining all quality parameters. The government needs to give extra export incentives to the steel industry thereby promoting exports and increasing demand of Indian MSME steel abroad while also helping the country earn more foreign exchange. Customs duty on ferrous scrap can be removed to increase competitiveness of the Industry. A subsidy of Rs. 2 per unit can be given to all the MSME steel units for a period of next 18 months.

There should be an ease of Statutory compliances like GST, income tax, etc and stringent actions against the running industries in case of any default in compliances should be avoided if the pandemic exists. Our request to the government is to provide a corpus fund for innovation and development of the steel sector and especially the MSME steel sector as done by the textile sector.

These efforts need to be taken especially during this pandemic period. MSME steel sector is surviving but it can thrive with the much needed support from the government infrastructure spending.

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Comments by Mr. Mandhani:

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MSME steel sector is surviving but it can thrive with the much needed and awaited government support.

VCAP – Advances in Steel Melting through Induction furnace

Consarc, an Inductotherm group company, has developed a new range of Induction Melting Furnaces for processing ferrous and non-ferrous metals under vacuum in liquid state.

Consarc has more than 40 years of experience with the designing Vacuum Induction

Melting furnaces (VIM) and Inductotherm is the world leader in Induction melting furnaces and power supply technology. With this new product the technology and experience of these two giants in their field is combined to provide flexible melting system for melting Metals in air, vacuum or controlled atmosphere – Vacuum Cap

(VCAP)The VCAP furnace is designed for Induction Melting a solid charge in an air atmosphere (or vacuum), with final degassing stage under vacuum. The final pouring of the metal is performed in air or under protective atmosphere of inert gas. Configuration is based on the Inductotherm range of steel shell induction furnaces which are fully adapted by Consarc for vacuum treatment of liquid metal. The furnace shell is fully sealed for vacuum operation and a sealing flange/apron is provided on top of the unit. Following

an air melt operation (or vacuum / inert gas if required), a water cooled vacuum lid can be placed on top of the furnace, either by

Prakash Chaubal
Sr. Vice President
(Business Development),
Inductotherm (India)
Pvt. Ltd.,

factory crane or dedicated lift/swing pivot arm (option). This lid is connected to a multi stage mechanical vacuum pumping system

which can evacuate the atmosphere above the molten bath.

The induction melting coil is powered from an Inductotherm VIP Power supply with the power and frequency matched for fast melt rates (high productivity) and optimum stirring (metallurgical quality) in the liquid state. The stirring frequency ensures that the alloy is fully homogenised and that fresh liquid metal is cycled to the surface of the bath to aid the degassing procedure Once the atmosphere is evacuated,

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Consarc's Vacuum Cap Furnaces (VCAP) are for Induction Melting of a solid charge in an air atmosphere or vacuum, with final degassing stage under vacuum. Pouring of the metal is performed in air or under protective atmosphere of inert gas.

Key benefits of VCAP process are:

- Melting under Vacuum, Controlled Atmosphere or Air
- Vacuum Degassing (Hydrogen & Nitrogen removal) without requiring a separate degassing station
- De-oxidation – using Vacuum and CO reaction
- De-carburization – Intensified CO reaction at low pressure enabling decarburization for lower carbon levels
- Reduction of tramp elements such as Pb, Cd, Bi, Zn
- Argon purging of metal with porous plug

VCAP furnace range: 50 kg to 20 tonnes suitable low and high Carbon steel, Tool & Die steels, Stainless Steels, Nickel, Cobalt, Non-ferrous alloys

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Important: Appropriate Personal Protective Equipment (PPE) must be worn by anyone in proximity to molten metal.

the degassing procedure and intensified C-O reaction allows removal of undesirable gases, Hydrogen, Nitrogen and Oxygen to much lower levels than would be possible in air. At the end of the degassing sequence, the vacuum lid can be removed and a protection ring is placed around the sealing flange.

The furnace is then ready for tilt pouring into the customers transfer ladle or moulds.

The pouring process is normally carried out in air (option for protective atmosphere).

Applications and Materials

The VCAP furnaces are available to suit a wide variety of melting application in sizes ranging from 80kg – 20Tonnes (other sizes available on request). Typical applications might include:

- Low and high carbon steels
- Tool and Die Steels
- Stainless Steels
- Nickel based alloys
- Cobalt based alloys
- Non Ferrous alloys

Metallurgical considerations

Some typical processes that can be performed in the VCAP range include

Air melting from solid charge (Option for vacuum melting)

- Controlled atmosphere melting from solid charge
- Alloy homogenization and chemistry adjustment
- Vacuum degassing (hydrogen and nitrogen removal)
- Reduction of low vapour pressure tramp elements e.g.Pb, Cd, Bi, Zn
- Deoxidation using combination of vacuum and C-O reaction
- Decarburisation - Intensified C-O reaction at low pressure enabling excellent decarburization for extra low carbon levels.
- Argon purging of metal with porous plug

Some of the more important customer product advantages from VCAP operation are:

- Generally significant improvement of mechanical properties, such as yield strength, ductility impact strength, fatigue and stress rupture elevated temperature properties.
- Improvement of technological characteristics, like hot workability, weldability and machinability.
- Better micro cleanliness due to strong carbon deoxidation and smaller residualinclusions.
- Significantly reduced scatter in product properties and characteristics, less rejections.

The standard units are complete with

- Induction Furnace and vacuum shell
- Hydraulic tilt system
- Inductotherm VIP power supply
- Water cooled vacuum lid
- Viewing ports
- Immersion thermocouple
- Vacuum pumping system
- Water cooling manifolds
- Control system
- Porous plug inert gas (argon) purging
- Automated vacuum lid handling
- Optical pyrometer
- Vacuum isolated sampling and fines charging
- Closed loop water cooling
- Platforms
- Scrap and raw material charging
- High voltage supply transformer
- SCADA supervisory control

Optional accessories can be fitted as required including Porous plug inert gas (argon) purging

- Automated vacuum lid handling
- Optical pyrometer
- Vacuum isolated sampling and fines charging
- Closed loop water cooling
- Platforms
- Scrap and raw material charging
- High voltage supply transformer
- SCADA supervisory control

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Exports of Iron Fines 57 Fe and below

Over the past nine months that I have retired, I am trying to sell iron ore fines 57 Fe grades. I have access to huge piles of this material across the states of India stacked up in the major ports through which iron ore is exported namely Vizag, Paradip, Haldia and Kandla. I have some buyers too. Usually, the pile of fines that I refer to is a treasure for any steel producing country and yet none of the material that I have aggregated sells. Here lies the problem.

The first problem is the way iron ore is sold. Iron ore is sold just as any other material pertaining to the iron and steel industry is sold and which is through its agents. Miners and producers do not sell directly, they have agents who sell stuff on commission. That is the way it has always been. Unlike a FMCG sector where its marketing department is the staffed the heaviest and paid the heftiest, the steel sector hardly has a marketing team. This industry relies on its agents. Agents are important people as they aggregate supplies, find buyers, and do the documentation. Since the production of minerals and iron and steel require extremely heavy machinery and intense technology, the energies of such industries are exhausted in production leaving them with little to spare for marketing. Hence the reliance on agents.

There is a problem of finding buyers for Indian iron ore fines for three major reasons.

1. Most buyers are confused whether iron ore is for exports or not; the policy of allowing sub prime grades and not allowing grades above 62 Fe of allowing fines of certain dimensions and not above has created apprehensions of what is allowed and what is not.
2. The constant change in the foreign trade policy, of whether to allow export of pellets or not, whether to allow pellets of Karnataka or not conveys mixed signals and which is why the international buyer is totally confused. Hence ports are stuffed with fines of Fe 57, mine heads are piling up stocks and at both places especially in times of cyclones such as Yaas and Taukate we are encounter environmental hazards.
3. There is a lack of adequate beneficiation capacity in the country to emerge as a ready buyers of sub grade fines.

Sub grade fines should ideally be destined towards beneficiation plants, which unfortunately are not too popular in India. For some reason we have not developed the beneficiation technology in India despite us being such a major iron ore producing nation. The price additions from iron ore to pellets to sponge iron or hot metal leaves less space for the costs of beneficiation to be added along the way. If this be the case, how are countries which have extensive beneficiation facilities operate? We may need to ponder.

Dr Susmita Dasgupta

Former Jt. Chief Economist, ERU, Ministry of Steel

India has a fair number of capacities in terms of pellets. Pellets use prime grade fines of 62 Fe and above. There is no way in which the subgrade fines can be used without beneficiation. Hence there is no scope for the 57 Fe grade except for it to be exported. The government must put a clear statement out there to say that this is an exportable product. Only then we will be able to manage wastes of mines and even get money by doing so.

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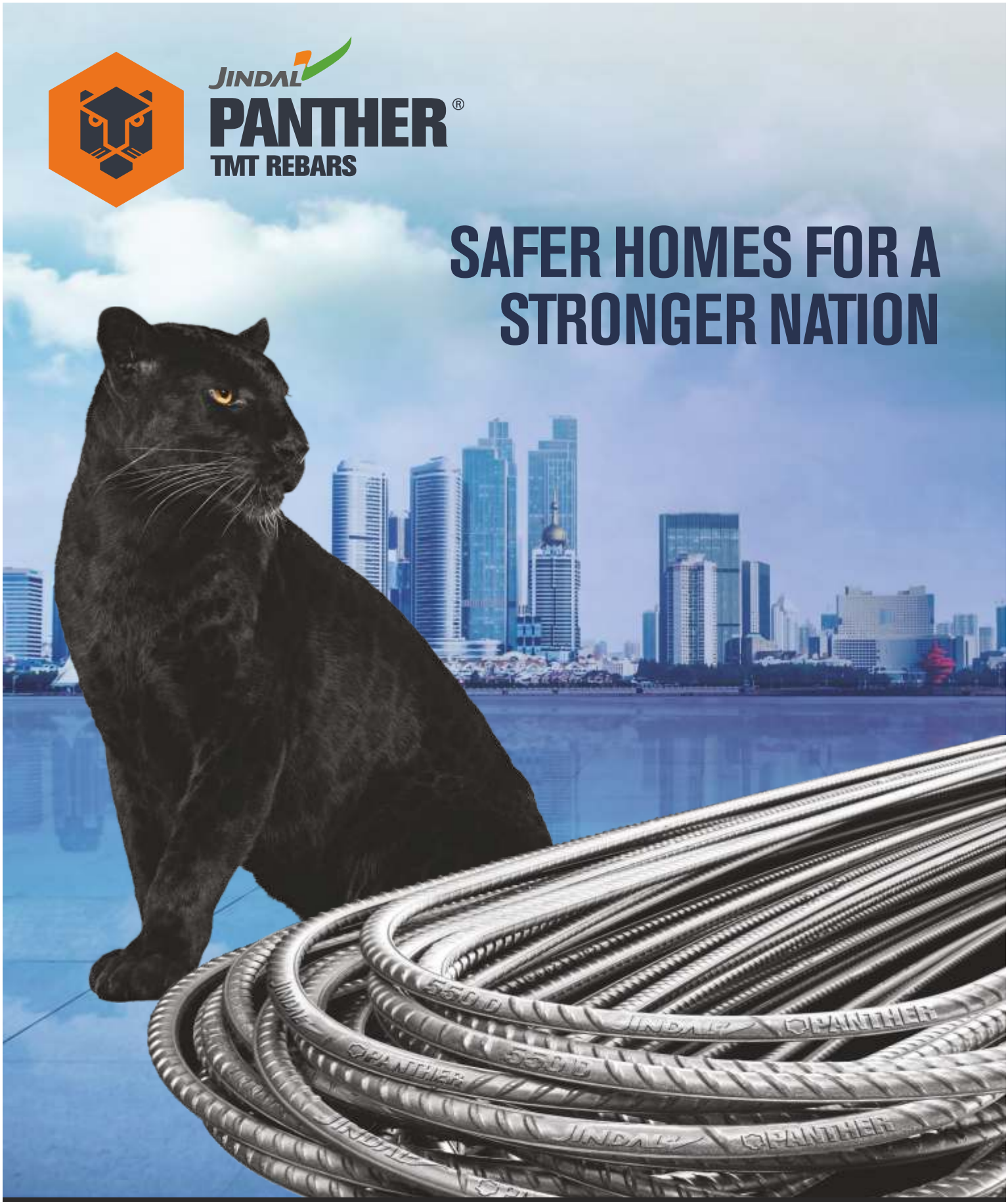

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Fe 550D

Jindal Stainless EBITDA and profit after tax (PAT) stood at Rs.521 crores and Rs.265 crores

The Board of Directors of Jindal Stainless Limited (JSL) approved the financial results of the Company for Q4FY21. A strong recovery in the domestic stainless-steel demand continued in the January-March period and helped sales volume grow by 15% over the corresponding period last year (CPLY) to 255,099 tonnes in Q4FY21.

JSL's EBITDA and profit after tax (PAT) stood at INR 521 crores and 265 crores, respectively. Continuing with the deleveraging, the company could further reduce its long-term external debt by INR 129 crores during the quarter, which stood at INR 1530 crores. During the Q4FY21 the interest cost reduced by 36% over CPLY to INR 92 crores.

The fourth-quarter demand was buoyed by segments like Auto, and a healthy revival in demand from the Pipe & Tube segment, along with Railways & allied infrastructure, including the Metro segment.

The demand for special grades in Q4FY21 registered growth due to localisation efforts by the government and Company's initiatives for innovation. With further push on indigenous production and expected economic recovery, healthy demand is likely to be generated in the future as well. Demand from segments like Elevators and Lifts, and Hollowware also remained strong and is likely to continue.

On the global scale, stainless steel production was impacted by the onset of the pandemic, and stood at 50.90 million tonne in CY2020, registering a decline of 2.5% over CPLY. Stainless steel melt production in India for CY2020 was at 3.17 million tonnes, registering a decline of 19% over CPLY.

Q4FY21 also witnessed further increase in raw material prices globally, wherein Scrap, Nickel, Copper and Ferro Chrome, etc. rose significantly over the Q3FY21 prices. The rally in raw material prices eventually pushed up prices of finished goods globally. This phenomenon was also visible for other commodities, including metal, due to pent up demand and economic recovery.

The Company maintained its focus on meeting domestic demand, which led to an increase in the overall proportion of domestic sales. The domestic-export share of sales volumes during the quarter, on a YoY basis, was as follows:

Geographical Segment	Q4FY21	Q4FY	20% Change
Domestic	84%	78%	24
Export	16%	22%	(16)

Other key developments:

1. Merger progress has been satisfactory. The company has obtained necessary approvals from the stock exchanges and SEBI as well, ahead of expected time. The company has filed first motion application before the NCLT.
2. The suspension of Countervailing Duty (CVD) in the Union Budget has opened the Indian economy to dumped and subsidized imports from China and Chinese investments in Indonesia. This is likely to adversely impact Indian manufacturing, especially the MSME sectors, pushing it into trading in place of manufacturing
3. Owing to JSL's market leadership, stable quantum of exports, and significant improvements in overall operating efficiency, profitability and financial risk profile, the Company was accorded CRISIL Ratings of 'CRISIL A+/Stable' to the long-term credit facilities and 'CRISIL A1' to the short-term credit facilities. The ratings endorse efficient working capital management by the Company and consistent debt reduction over the past few years.
4. Over 40 MT of Liquid Medical Oxygen (LMO) is being dispatched daily from the Company's Jajpur facility to meet the increasing demand of LMO in Odisha, Andhra Pradesh, and other states, as required. The Company is also airlifting LMO from its Jajpur facility for dissemination in Hisar, as and when required.

Figures in INR crore(s)

Particulars	Standalone						Consolidated					
	Q4FY21	Q4FY20	Change	Fy21	Fy20	Change	Q4FY21	Q4FY20	Change	Fy21	Fy20	Change
Net Revenue	3,810	2,904	31%	11,679	12,320	(5)%	3,914	3,094	26%	12,188	12,951	(6%)
EBITDA	521	241	116%	1,396	1,175	19%	542	222	145%	1,424	1,139	25%
PBT	406	(38)		700	244	187%	434	(73)		690	165	318%
PAT	265	(22)		428	153	180%	293	(66)		419	73	478%

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D5/Cr12MoV/DIN 2601

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On a yearly basis, FY21 standalone PAT stood at INR 428 crore, while EBITDA was INR 1396 crores. Sales volume was recorded at 824,825 tonnes and net revenue of the Company was INR 11,679 crore. With continuous focus on deleveraging, despite the challenging business environment, the company managed to reduce its total external debt (including short term debt) by INR 906 crore, which stood at INR 1,849 crore as on March 31, 2021. This also resulted in a significant saving in the interest cost, which fell by 18% over FY20 to INR 464 crore.

Commenting on the performance of the Company, Managing Director, JSL, Mr Abhyuday Jindal, said, *"Our agile business strategy throughout the year, despite the pandemic-induced challenges, has helped JSL deliver a strong performance. A steady demand in the domestic market across segments during the fourth quarter has helped growth in sales volume and revenue. We're now looking forward to the creation of a level playing field by the Government. Indian industries have proved in this hour of need, that domestic manufacturing not only helps generate employment, but can also support country with oxygen and health infrastructure."*

SAIl augmented ICU ventilator facilities at IPGI RSP dedicated by Shri Dharmendra Pradhan, Hon'ble Union Minister of PNG & Steel

The augmented ICU ventilator facilities for treatment of COVID patients at Ispat Post Graduate Institute (IPGI) and Super Specialty Hospital (SSH) in SAIL Rourkela Steel Plant (RSP) was dedicated by Shri Dharmendra Pradhan, Hon'ble Union Minister of Petroleum & Natural Gas and Steel, on 20th May 2021, in presence of Shri Faggan Singh Kulaste, Union Minister of State for Steel through online mode.

The IPGI and SSH Complex was dedicated to the nation by the Hon'ble President of India on 21st March, 2021. To tide over the surge in the COVID cases, as per the instructions of the Hon'ble Minister of PNG & Steel, it was decided to upgrade the facility to a 100-bedded ICU for covid care and treatment at SSH.

Accordingly, ventilators were procured by SAIL, RSP on a war footing and installed in the hospital. The virtual event was also attended by the Minister of State for Steel Shri Faggan Singh Kulaste, Odisha Health Minister Shri Naba Kisore Das, MP from Sundargarh Shri Jual Oram, MLAs from the area, Chairman SAIL Smt Soma Mondal, and senior officers of the Ministry of Steel and SAIL.

Speaking on the occasion, Shri Pradhan said that patients from different places of in and around Rourkela as well as neighboring states had started availing the OPD facilities at SSH. Keeping in view the steep rise in the number of critically ill COVID patients in the region during the 2nd wave of the pandemic and realizing the urgent need of oxygenation and assisted ventilation, it was decided to operate a 60 bedded COVID ICU facility.

Subsequently it was decided to upgrade the facility to a 100-bedded ICU. The Minister said that this upgraded ICU facility is a significant addition to the healthcare infra in the region and will bolster Odisha's fight against the COVID-19 pandemic. He added that domestic steel companies have been putting their might to combat the deadly Covid pandemic, both in Odisha as well as nationally.

Shri Pradhan said that SAIL has taken a slew of measures to contribute to Odisha's fight against the pandemic. Rourkela Steel Plant set up a Virology Laboratory at its IGH in April-2020, which enabled quick Covid testing. The capacity of the testing facilities for RT-PCR has been enhanced from the initial levels and work is in progress to increase it further.

Shri Pradhan said that ensuring availability of masks and consumables like medicines, regular & massive sanitization in Plant & Township and other commensurate measures including use of PA system for creating awareness have also been taken.

He said that a concerted effort by all stakeholders of the society to fight the COVID-19 pandemic is the need of the hour. Calling for stepping up efforts towards testing, treating and vaccination, Shri Pradhan urged SAIL to take up vaccination of its stakeholders.

Shri Pradhan said that since April'21, RSP has been constantly supplying the life-saving LMO which is dispatched from RSP to various states of the country including Odisha. Extra thrust has been given on ramping up production and dispatch of liquid medical oxygen from the RSP.

Internal use of gaseous oxygen in the plant has been rationalized and necessary systemic modifications have been made to ensure round the clock dispatch of liquid medical oxygen from the plant, he added. Shri Pradhan expressed happiness that as per the direction of Hon'ble Prime Minister, RSP is in the process of setting up a jumbo 500 bedded hospital with piped gaseous oxygen supply directly from the plant with ventilators and other associated facilities.

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Tata Steel pays homage to the pioneering geologist, Pramatha Nath Bose, on his 166th Birth Anniversary

Tata Steel paid homage to the pioneering geologist, Pramatha Nath Bose (popularly known as P N Bose) today on his 166th Birth Anniversary. Amid lockdown due the COVID-19 pandemic, all the events were conducted digitally. The day started with homage in the morning, where the senior management of Tata Steel and employees paid digital homage to P N Bose by logging onto the Company's Intranet.

Later in the day, a webinar on "Role of Geological Survey of India in mineral exploration and partnering in achieving a $5 trillion economy" was organised. Mr Rajendra Singh Garkhal, Director General, Geological Survey of India, was the guest speaker of the session.

In the session, Mr Garkhal gave an overview about the Geological Survey of India and its achievements in mineral and mining sector of the country thereby contributing significantly towards the economic growth of India. He also highlighted the various initiatives and reforms introduced by the Government of India in mineral exploration and mining space, and an aspirational goal of achieving $5 trillion economy in five to six years.

To engage with the student community, on May 6, 2021, an online interactive session on "Rocks and Minerals with special reference to the ones in Jharkhand and Odisha" was organised for the English medium schools of Jamshedpur and out locations of Tata Steel in Jharkhand and Odisha. 1,400 students from 24 schools had participated in the online session. An e-exhibition and a quiz on the life and contributions of P N Bose were also hosted for the internal employees.

While paying digital homage, D B Sundara Ramam, Vice President (Raw Materials), Tata Steel, posted his comment, where he wrote, "Feel proud to be a part of the virtual homage being paid on the 166th birth anniversary of P N Bose, who had been an architect in making India self-reliant in the areas of mines and metals, and his foresightedness and discoveries that gave birth to India's first integrated steel plant."

Sanjeev Kumar Choudhary, President, Tata Workers` Union, also paid his tribute to P N Bose and posted his message and wrote: "P N Bose, a pioneering Indian Geologist, had several firsts to his credit. His most outstanding achievement was the discovery of iron ore deposits in the hills of Gorumahisani in the state of Mayurbhanj. He informed J N Tata, through a letter, about these findings. This is how he was instrumental in the setting up Tata Steel Plant in Jamshedpur."

Born on May 12, 1855 in a remote village of Gaipur, in 24 Parganas district, West Bengal, geologist P N Bose graduated in Science from London University and passed out from the Royal School of Mines in 1878. During his years as geologist, he discovered iron ore mines in Dhulli and Rajhara in Madhya Pradesh.

The most outstanding achievement of his life was the discovery of iron ore deposits in the hills of Gorumahisani in the state of Mayurbhanj. Following the discovery, P N Bose wrote a letter to J N Tata (Founder of Tata Steel) on February 24, 1904 which led to the establishment of Tata Iron and Steel Company at Sakchi on August 26, 1907.

P N Bose has several firsts to his credit. He was the first Indian graduate in science from a British University; first to discover petroleum in Assam; first to set up a soap factory in India and also the first to introduce micro sections as an aid to petrological work.

He was also the first Indian to hold a graded position in the Geological Survey of India where he served with distinction. As a man of science, he had constantly taken up the cause of technical education in the country. His efforts also catalysed the foundation of the Bengal Technical Institute which is better known as the Jadavpur University today of which Bose was the first honorary Principal.

JSW Group opens 1000-Bedded Oxygenated Covid Care Hospital in Karnataka

Recently JSW Group has launched a 1,000-Bedded Oxygenated Covid Care District Field Hospital in Toranagallu, Ballari, Karnataka. The Mega-Hospital was inaugurated virtually by the Hon'ble Chief Minister of Karnataka Sh B. S. Yediyurappa in the presence of Shri Anand Singh, Minister for Infrastructure Development, Haj & Waft and Ballari District In-charge Minister, Govt of Karnataka; Ballari, Shri E Tukaram, Member of Legislative Assembly, Sandur, along with District Administration and JSW officials.

This is one of India's biggest Covid-Care facilities with a dedicated 4.8 km oxygen pipeline originating from its steel factory and supplying medical oxygen directly to the hospital for treatment of ailing patients. This mega healthcare facility was constructed in a record period of 15 days. JSW Group has created this mega hospital in collaboration with the District Administration of Ballari and is dedicated to the nation and the people of Karnataka. This Mega-Hospital will be managed and administered by the Ballari District Administration.

Shri Sajjan Jindal, Chairman, JSW Group acknowledged the support and of the Chief Minister, Senior ministers of Karnataka, members of the state and district Administration and paid his gratitude to Doctors, nurses

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and Covid warriors.

He said, "JSW believes in the mantra of people and nation first. At this alarming and decisive juncture of human survival, JSW would like to do everything in its humble capacity for the service of mankind. We have created this field hospital to ensure direct oxygen supply from plant to patient."

Commenting on the newly opened medical facility, Mrs Sangita Jindal, Chairperson of JSW Foundation said, *"The impact of second Covid-19 wave has a crushing impact on the nation's health as the number of patients as well as fatalities keep rising at an alarming pace. Given the chronic need of medical facilities, bed requirements and oxygen supply, we quickly swung into action and decided to establish this jumbo 1000-bedded oxygenated Covid-Care Field Hospital next to our steel factory at Ballari in Karnataka. JSW remains committed to support the Government's efforts in flattening the covid infection curve while helping patients recover by providing them the best healthcare facilities at this hospital."*

According to Dr Vinod Nowal, Deputy Managing Director of JSW Steel Ltd, *"The unique notion of providing direct oxygen supply to the patients stems from our Group Chairman Mr. Sajjan Jindal's inclusive vision that if oxygen in such huge quantities cannot be taken to the patients, then we must work to find ways and means and bring the patients closer to the oxygen source. This Mega Covid Care facility is equipped with all necessary medical facilities for treating patients from North Karnataka and neighbouring districts of Andhra Pradesh."*

The Mega Covid-Care Hospital created by JSW is equipped with medical equipment for critical care, pharmacy as well as supported by kitchen and laundry services. The Ballari District Administration will be managing the hospital in multiple shifts with the help of 700 personnel across three shifts, comprising doctors/specialists, nurses, paramedics, supervisors, and non-medical staff.

In order to ensure uninterrupted oxygen supply, JSW Steel Vijayanagar Works will supply 1200 Nm3/hr of oxygen to this mega-hospital. The hospital premises will be kept cool through 850 tons of air-conditioners installed across the premises with electrical substation. It also has an exhaust and air purifier system installed to maintain appropriate temperature range and air quality inside the premises. It will also have all necessary power and water supply to ensure smooth running and uninterrupted care to the patients.

Primetals Technologies to modernize cycloconverter drive of plate mill at SIJ Acroni in Slovenia

SIJ Acroni d.o.o. has engaged Primetals Technologies to replace the existing cycloconverter drive control for the upper and lower motors on the plate mill's roughing stand at the Jesenice production site in Slovenia. The goal of the project is to maintain availability and secure the supply of spare parts.

This will be done by replacing the obsolete drive and field control systems with the VarioVerter cycloconverter developed by Primetals Technologies and new field control systems. Installation work will not add any extra days to the annual winter shutdown and is due for completion in January 2022.

Installing the new VarioVerter also takes account of a request from the customer: should a synchronous motor be damaged, the customer would later like to have the opportunity of temporarily running the plate mill with a DC motor using the supplied drive control components.

Primetals Technologies' scope of performance includes supplying two VarioVerter cycloconverter controllers, replacing the field control units, electrical assembly, and integration into the plate mill's existing basic automation control system, thereby largely leaving the interface situation unchanged.

SIJ Acroni is Europe's leading producer of stainless quarto plates. The company also specializes in electric and custom steels, which are sold as hot and cold-rolled coils, heavy plates and cold-formed sections, mainly for use in special niche products.

The SIJ Acroni plant is located in Jesenice, about 60 kilometers northwest of Ljubljana, the capital city.

Primetals Technologies, Limited Chiswick Park, Building 11, 566 Chiswick High Road A joint venture of Mitsubishi Heavy Industries and partners W4 5YS London Communications United Kingdom Head: Gerlinde Djumlija Reference number: PR2021052295en Page 2/3

VarioVerter cycloconverter controller from Primetals Technologies. Two systems will be installed at SIJ Acroni in Jesenice, Slovenia.

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Usiminas selects Danieli Corus for new 180-t converter

Usinas Siderúrgicas de Minas Gerais S.A. (Usiminas) has awarded the contract for the replacement of BOF Converter #5 of BOF Shop #2 at their 4.8 Mtpy Ipatinga integrated steelworks to Danieli Corus.

This contract is a repeat order after the contract for the replacement of BOF converter #4 in 2018 and marks the eleventh converter revamp project for Danieli Corus since 2014.

The new 180-t converter will be equipped with the Danieli-patented suspension system based on a vertical Lamella arrangement, in combination with horizontal Daniella elements, an air-cooling system for the barrel part of the vessel, and water–based cooling for the vessel's top cone.

A Q–Temp 2.0 temperature monitoring system and EIC/automation packages will also be installed as part of this revamp project. The first heat with the new converter is scheduled for 2023.

Metso Outotec grants license to Primetals Technologies for straight grate iron ore pelletizing technology for the Indian market

Primetals Technologies and Metso Outotec Oyj (Metso Outotec) have entered into an exclusive license agreement enabling Primetals Technologies to use the Metso straight grate iron ore pelletizing (SG-IOP) technology for the Indian market.

Through this agreement Primetals Technologies will further strengthen its offering of iron ore pelletizing plants for customers in India. The license provides Primetals Technologies the exclusive right to execute pelletizing plants in India based on Metso SG-IOP reference projects with grate sizes ranging from 272 to 816 square meters implemented in India over the past decades. This complements the existing portfolio of Circular Pelletizing

Plants.

This license agreement comes because of the Metso Outotec merger clearance process in India. The combination of Metso's Minerals business and Outotec was conditionally approved by the Competition Commission of India (CCI) in June 2020, subject to the transfer of Metso's SG-IOP capital equipment business in India to a suitable buyer through a technology licensing arrangement. The license enables Primetals Technologies to design, engineer, supply and commission pelletizing plants based on Metso SG-IOP technology and to engage in respective aftermarket services in India.

"Indian pellet plant capacity is expected to grow significantly in coming years to meet the growing demand of steel in India. This agreement with Metso Outotec will enable Primetals Technologies to provide our customers with proven and reliable technology for iron ore pellets production" comments Aashish Gupta, Executive Vice President and Global Business Unit Head Upstream.

"Primetals Technologies also offers Circular Pelletizing Plants for smaller capacities up to 2 million tons per year and this agreement with Metso Outotec supports our activities to provide iron ore pellet plants up to 8 million tons per year in India," he adds.

Primetals Technologies' pellet plant offerings will be complemented by its comprehensive environmental portfolio (MEROS off-gas cleaning technology) as well as advanced automation systems for travelling grate technology. Maximized localization of engineering services and manufacturing of equipment through Primetals Technologies India will increase the attractiveness of offerings for the Indian market. Metso Outotec, Finland grants license to Primetals Technologies for straight grate iron ore pelletizing technology for the Indian market.

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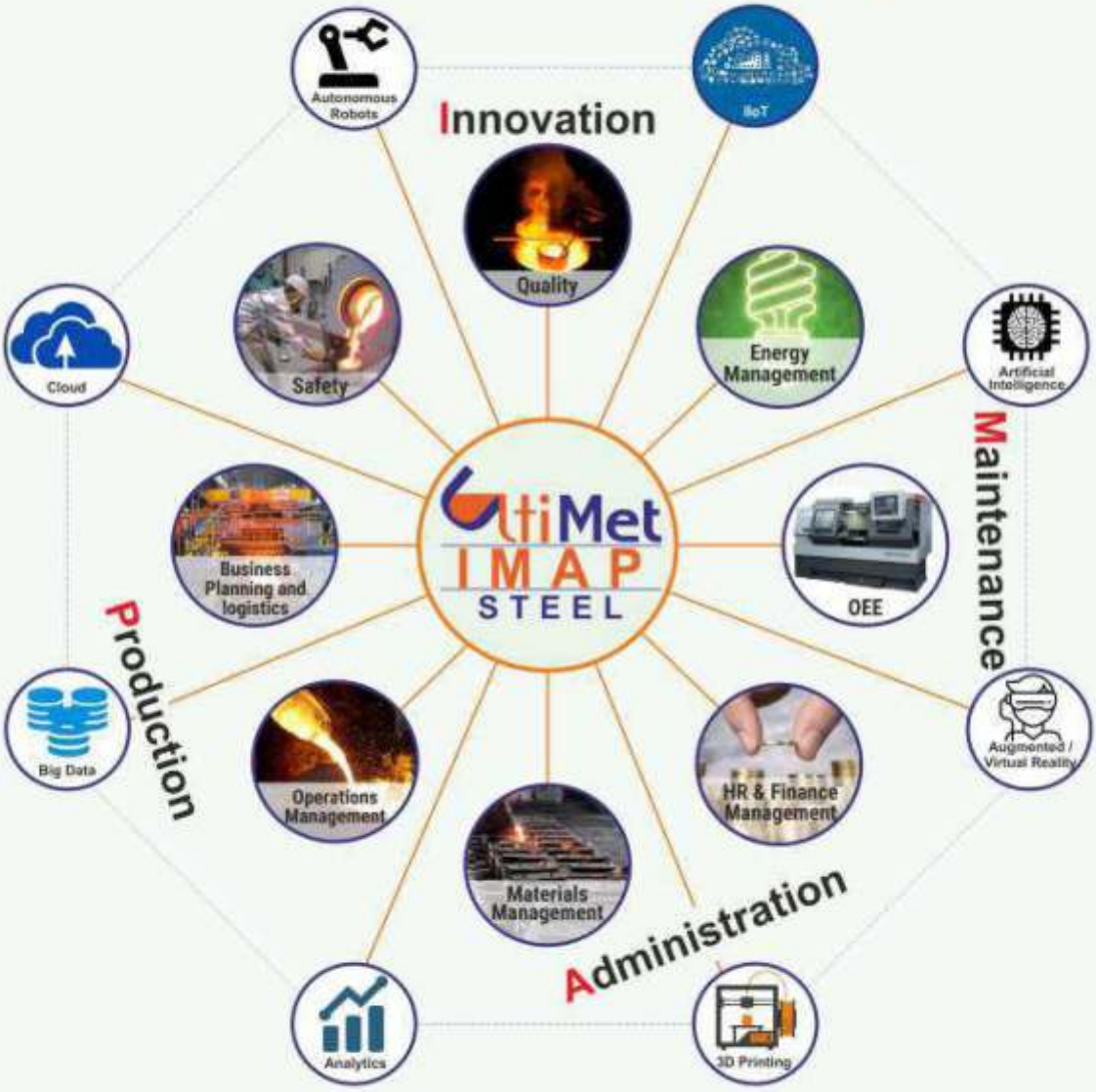

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Chandan Steel & Kazakhstan Govt donates Oxygen Concentrator & Medical Equipment to Jalore-Sirohi Constituency

Chandan Steel Limited is at a reputable position, guided by the foresight of the Chairman, C G Chandan. Adding strength to its mission for future is the expertise brought in by his two sons, Dilip Chandan and Vijay Chandan.

Chandan Steel Vision is to become one of the most preferred supplier and leading manufacture of stainless steel products and to retain confidence in our customer in terms of trust, satisfaction and sustainability.

Chandan Steel Limited has earned itself a reputation of being a company that delivers quality. Chandan Steel Limited continues to take up more challenges, only to create more possibilities, which will serve as benchmarks for others to follow.

Shri Dilip Chadan, Managing Director, Chandan Steel has donated 33 oxygen concentrator machine along with the another 33 machine donated by Mr.Devaji Patel, Member of Parliament with the total valuation of worth Rs.60 lakh which has been distributed at Jalore-Sirohi parliament constituency.

As being the Honorary Consulate of Kazakhstan, Mr. Chandan has managed to get the donation of medical equipment and covid kits donation worth Rs.55 lakh from the Government of Kazakhstan which includes medical masks, respirators, protective suits, and portable artificial lung ventilation devices with the total weight of 40 tons as a humanitarian assistance to India.

All such material was delivered via two special Kazakh aircrafts with its cargo landed at the Indira Gandhi International Airport in New Delhi.

This aid was officially handed it over at the airport by Ambassador of Kazakhstan to India Nurlan Zhalgasbayev and to Director of the Eurasian Department of the Ministry of External Affairs of India Bandaru Wilsonbabu.

Before arriving the consignment, President Tokayev addressed a telegram to Indian Prime Minister Narendra Modi, expressing "deep solidarity with the Indian nation over the devastating COVID-19 surge in this country", and on May 7, instructed the Government of Kazakhstan to provide and dispatch the necessary assistance to the Indian authorities. It should be noted that in 2020, India had sent hydroxychloroquine tablets to help Kazakhstan fight the pandemic.

Climate change and the production of iron and steel

The World Steel Association (worldsteel) released a public policy paper, Climate change and the production of iron and steel. The paper outlines the steel industry's challenges and opportunities with respect to reducing CO2 emissions in line with the aims of the Paris Agreement.

Steel production remains a CO2 and energy-intensive activity. However, the steel industry is committed to continuing to reduce the footprint from its operations and the use of its products. There is no single solution to drastically reducing CO2 emissions from our industry and we believe that individual countries are best placed to assess and implement policy and technical strategies to suit their particular circumstances. However, the main elements of the industry's response, applicable to steel producers everywhere, are:

• Reducing our own impact

• Efficiency and the circular economy

• Developing advanced steel products to enable societal transformations

Edwin Basson, Director General, worldsteel, said, 'what is absolutely clear is that governments and other stakeholders will need to work with the steel industry to overcome the technological and economic challenges and create the market conditions necessary for the steel industry to transition to low-carbon steelmaking effectively.'

Åsa Ekdahl, Head, Environment and Climate Change, worldsteel is presenting the contents of the paper in a webinar on Wednesday 19 May from 15.00 – 16.00 CET (13.00 – 14.00 UTC), 'Climate Change and the Production of Iron and Steel: An Industry View.' Åsa is secretary to worldsteel's Environment Committee and leads worldsteel's engagement with international organisations, including the United Nations Framework Convention on Climate Change (UNFCCC) and the Organisation for Economic Co-operation and Development (OECD). The webinar is a steelTalk, part of the series of free-to-attend monthly webinars organised by steeluniversity, worldsteel's learning and training programme.

- The World Steel Association (worldsteel) is one of the largest and most dynamic industry associations in the world, with members in every major steel-producing country. worldsteel represents steel producers, national and regional steel industry associations, and steel research institutes. Members represent around 85% of global steel production.
- steel university is the education and training programme of the World Steel Association, delivering education and training to current and future employees of steel companies and related businesses.

Global steel output surges 23% in April, helped by high prices

Global crude steel production jumped almost by 23% year-on-year in April as per the recent data released from World Steel Association.

As per the data World crude steel production for the 64 countries was 169.5 million tonnes (Mt) in April 2021, a 23.3% increase compared to April 2020.

With this global output of steel climbed to 169.5 million tonnes last month, industry group World Steel Association data showed, but the percentage rise was exaggerated due to closures a year ago when the pandemic was at its height. Lower month-on-month output in India was offset by large gains in China, Russia and Brazil.

Crude steel production by region

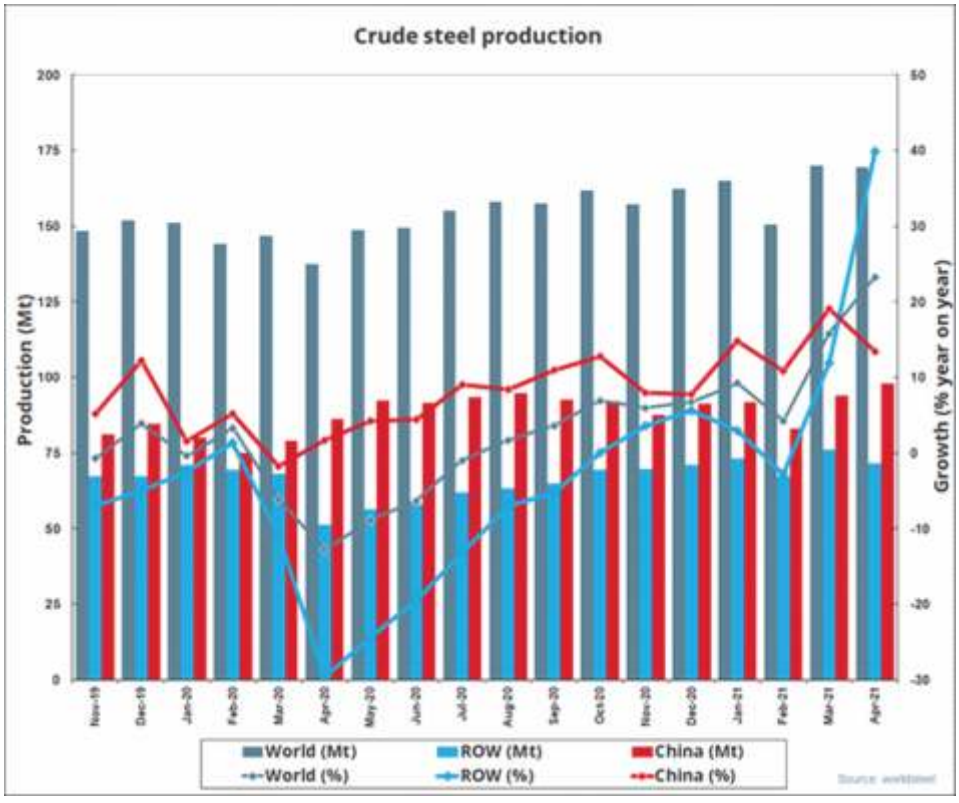
Africa produced 1.3 Mt in April 2021, up 93.9% on April 2020. Asia and Oceania produced 125.0 Mt, up 19.2%.

The CIS produced 9.0 Mt, up 20.7%. The EU (27) produced 12.9 Mt, up 42.8%. Europe, Other produced 4.2 Mt, up 33.9%.

The Middle East produced 3.5 Mt, up 15.3%. North America produced 9.7 Mt, up 38.2%. South America produced 3.8 Mt, up 70.9%.

Top 10 steel producing countries

	million tonnes		million tonnes	
	April 2021	% change Apr-21/20	Jan - Apr 2021	% change Jan - Apr 21/20
Africa	1.3	93.9	5.2	17.0
Asia and Oceania	125.0	19.2	487.8	15.3
CIS	9.0	20.7	35.3	7.4
EU (27)	12.9	42.8	51.0	11.6
Europe, Other	4.2	33.9	16.7	13.1
Middle East	3.5	15.3	14.1	6.0
North America	9.7	38.2	38.0	3.8
South America	3.8	70.9	14.7	18.2
Total 64 countries	**169.5**	**23.3**	**662.8**	**13.7**



China produced 97.9 Mt in April 2021, up 13.4% on April 2020. India produced 8.3 Mt, up 152.1%. Japan produced 7.8 Mt, up 18.9%.

The United States produced 6.9 Mt, up 43.0%. Russia is estimated to have produced 6.5 Mt, up 15.1%. South Korea is estimated to have produced 5.9 Mt, up 15.4%.

Germany produced 3.4 Mt, up 31.5%. Turkey produced 3.3 Mt, up 46.6%. Brazil produced 3.1 Mt, up 59.3%. Iran is estimated to have produced 2.5 Mt, up 6.4%.

Countries	million tonnes		million tonnes	
	April 2021	% change Apr-21/20	Jan - Apr 2021	% change Jan - Apr 21/20
China	97.9	13.4	374.6	15.8
India	8.3	152.1	38.2	26.9
Japan	7.8	18.9	31.5	2.7
United States	6.9	43.0	27.3	2.8
Russia	6.5 e	15.1	25.5	7.1
South Korea	5.9 e	15.4	23.4	6.5
Germany	3.4	31.5	13.5	9.0
Turkey	3.3	46.6	13.1	16.9
Brazil	3.1	59.3	11.8	15.9
Iran	2.5 e	6.4	10.0	9.6

e - estimated. Ranking of top 10 producing countries is based on year-to-date aggregate

Networking Steel & Metal Industry - Worldwide

Monthly Publication
Trade Shows
B2B Industry Portal
Industry Research
Strategic Consultancy

Complete Visibility in Global Iron & Steel Sector

Chandekar Business Media Pvt. Ltd.

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Email : info@steelworld.com | info@metalworld.co.in
Website : www.steelworld.com | www.metalworld.co.in

Society of Indian Automobile Manufacturers

Monthly Performance: April 2021

Production: The total production of Passenger Vehicles*, Three Wheelers, Two Wheelers and Quadricycle in the month of April 2021 was 1,875,698 units.

Domestic Sales:

Passenger Vehicle* sales was 261,633 units in April 2021.
Three-wheeler sales was 13,728 units in April 2021.
Two-wheeler sales was 995,097 units in April 2021.

Commenting on the April 2021 data, **Mr Rajesh Menon, Director General, SIAM** said "*As our country battles with the second wave of COVID-19 pandemic, the Indian Automobile Industry has been standing shoulder to shoulder with the Government and local authorities to provide all essential medical and non-medical support to the society, in this difficult time.*

Vehicle manufacturing has been restricted and OEMs have come forward for augmenting Oxygen supply for medical use. Industry is putting all efforts to increase the availability of oxygen by providing oxygen generating plants, concentrators, cylinders, mobile oxygen vans, setting-up vehicle tracking system in oxygen carrying vehicles to reduce their turn-around-time, etc. In fact, some members have also tied up with PSA plant manufacturers to de-bottleneck their operations and scale up production of oxygen plants. Other efforts include augmenting medical care facilities and infrastructure.

As expected, the COVID wave has impacted the sales of vehicles in the month of April 2021. Sales of Passenger vehicles fell by about (-) 10.07 %, compared to March 2021, due to various restrictions in States which have been experiencing surge in COVID-19 cases. Sales of Two-Wheelers have also plummeted by (-) 33.52 %, while Three-Wheelers witnessed a de-growth of (-) 57.01 %, from March 2021 to April 2021.

Supply Chain related production challenges continue with the lockdown restrictions in many parts of the country. The demand has been clearly impacted by second wave of COVID-19, both in terms of low consumer sentiments and closure of dealerships due to lockdown restrictions".

Society of Indian Automobile Manufacturers

Domestic Sales

Segment/Subsegment	Domestic Sales (in Numbers)		
	Mar-21	Apr-21	% Change
Passenger Vehicles (PVs)*			
Passenger Cars	1,56,985	1,41,194	-10.06%
Utility Vehicles (UVs)	1,22,350	1,08,871	-11.02%
Vans	11,604	11,568	-0.31%
Total Passenger Vehicles (PVs)	**2,90,939**	**2,61,633**	**-10.07%**
Three Wheelers			
Passenger Carrier	21,614	9,248	-57.21%
Goods Carrier	10,316	4,480	-56.57%
Total Three Wheelers	**31,930**	**13,728**	**-57.01%**
Two Wheelers			
Scooter/ Scooterettee	4,57,677	3,00,462	-34.35%
Motorcycle/Step-Throughs	9,93,996	6,67,841	-32.81%
Mopeds	44,688	25,977	-41.87%
Electric Two Wheelers	445	817	83.60%
Total Two Wheelers	**14,96,806**	**9,95,097**	**-33.52%**
Quadricycle	7	0	
Grand Total of All Categories	**18,19,682**	**12,70,458**	**-30.18%**

Production

Segment/Subsegment	Production (in Numbers)		
	Mar-21	Apr-21	% Change
Passenger Vehicles (PVs)*			
Passenger Cars	1,90,588	1,66,546	-12.61%
Utility Vehicles (UVs)	1,41,704	1,27,452	-10.06%
Vans	12,057	11,954	-0.85%
Total Passenger Vehicles (PVs)	**3,44,349**	**3,05,952**	**-11.15%**
Three Wheelers			
Passenger Carrier	62,589	56,394	-9.90%
Goods Carrier	11,142	7,190	-35.47%
Total Three Wheelers	**73,731**	**63,584**	**-13.76%**
Two Wheelers			
Scooter/ Scooterettee	5,18,395	3,66,928	-29.22%
Motorcycle/Step-Throughs	13,81,625	10,99,192	-20.44%
Mopeds	50,135	38,624	-22.96%
Electric Two Wheelers	666	909	36.49%
Total Two Wheelers	**19,50,821**	**15,05,653**	**-22.82%**
Quadricycle	336	509	51.49%
Grand Total of All Categories	**23,69,237**	**18,75,698**	**-20.83%**

Exports

Segment/Subsegment	Exports (in Numbers)		
	Mar-21	Apr-21	% Change
Passenger Vehicles (PVs)*			
Passenger Cars	25,909	24,750	-4.47%
Utility Vehicles (UVs)	13,992	17,209	22.99%
Vans	282	66	-76.60%
Total Passenger Vehicles (PVs)	**40,183**	**42,025**	**4.58%**
Three Wheelers			
Passenger Carrier	38,767	45,742	17.99%
Goods Carrier	1,005	695	-30.85%
Total Three Wheelers	**39,772**	**46,437**	**16.76%**
Two Wheelers			
Scooter/ Scooterettee	27,883	40,024	43.54%
Motorcycle/Step-Throughs	3,27,347	3,89,511	18.99%
Mopeds	942	1,776	88.54%
Electric Two Wheelers	-	-	
Total Two Wheelers	**3,56,172**	**4,31,311**	**21.10%**
Quadricycle	270	516	91.11%
Grand Total of All Categories	**4,36,397**	**5,20,289**	**19.22%**

** BMW, Mercedes, Tata Motors & Volvo Auto data is not available.*

SIAM

Summary Report: Production, Domestic Sales & Exports data for the month of April 2021

Report I
(Number of Vehicles)

Category	Production		Domestic Sales		Exports	
Segment/Subsegment	April		April		April	
	2020	2021	2020	2021	2020	2021
Passenger Vehicles (PVs)*						
Passenger Cars	-	166,546	-	141,194	2,753	24,750
Utility Vehicles(UVs)	187	127,452	-	108,871	1,324	17,209
Vans	-	11,954	-	11,568	-	66
Total Passenger Vehicles (PVs)	**187**	**305,952**	**-**	**261,633**	**4,077**	**42,025**
Three Wheelers						
Passenger Carrier	3,026	56,394	-	9,248	7,181	45,742
Goods Carrier	100	7,190	23	4,480	56	695
Total Three Wheelers	**3,126**	**63,584**	**23**	**13,728**	**7,237**	**46,437**
Two Wheelers						
Scooter/ Scooterettee	-	366,928	-	300,462	1,830	40,024
Motorcycle/Step-Throughs	12,407	1,099,192	-	667,841	43,918	389,511
Mopeds	-	38,624	-	25,977	132	1,776
Electric Two Wheelers	-	909	-	817	-	-
Total Two Wheelers	**12,407**	**1,505,653**	**-**	**995,097**	**45,880**	**431,311**
Quadricycle						
Quadricycle	21	509	-	-	138	516
Grand Total	**15,741**	**1,875,698**	**23**	**1,270,458**	**57,332**	**520,289**

*** BMW, Mercedes, Tata Motors and Volvo Auto data is not available**

Rajesh Menon, Director General, SIAM

राष्ट्रीय इस्पात निगम लिमिटेड
(भारत सरकार का उद्यम)
विशाखपट्टणम इस्पात संयंत्र

RASHTRIYA ISPAT NIGAM LIMITED
(A Government of India Enterprise)
Visakhapatnam Steel Plant

VIZAG STEEL
Pride of Steel

RINL-Vizag Steel... aiding Atma Nirbhar Bharat

Now get easy access to

RINL-Vizag Steel's Quality Products

at your doorsteps

RINL eSuvidha

order online through web based portal

logon to https://esuvidha.vizagsteel.com/rinlesuvidha/index.jsp

RINL recently launched a new customer friendly initiative i.e. "RINL eSuvidha" – a Online Retail Portal to procure steel by customers all over India.

"RINL eSuvidha"

- Desktop/Mobile enabled website for customers across the country, to logon and access RINL-VizagSteel's Quality products in a convenient, transparent & efficient manner.
- Portal enables RINL to offer quotation against the customer's enquiry and the customer can confirm the order on the portal itself.
- Facilitates the customer to book order-on-line for quantities, make payment on-line for getting the material at their door steps.
- Provides a hassle free access to purchase quality steel products from RINL –Vizag Steel from any part of India.

The principal products of RINL-Vizag Steel includes TMT Rebars, Wire Rod Coils, Rounds, Structurals, Squares & Flats. Manufactured from 100 % virgin steel with stringent tolerances in both physical and chemical properties, RINL-Vizag Steel is the preferred steel for a wide array of customers.

RINL-Vizag Steel's quality products are marketed through a vast network of distributors and dealers in 24 Nos. of locations pan India including Tuticorin (Tamilnadu) &Rayagada (Odisha) distributors under 2-Tier Sales & Distribution system.

RINL-Vizag Steel is the first integrated steel plant to be certified for ISO 9001:2015, ISO 14001, ISO 27001 & OHSAS 18001 standards. It is also one of the first Indian Steel Companies to certified for ISO 50001 - Energy Management Systems.

उत्पाद श्रेणियाँ व उपयोग
PRODUCT MIX & APPLICATIONS

WIRE RODS

5.5mm - 45mm Dia

Wire drawing, Bright bars, Fasteners etc.

ROUNDS

16 - 90mm Dia in straight length

Fasteners, Forging, Re-rolling, Railways, Construction etc.

'VIZAG TMT' REBARS

8mm - 36mm Dia

Construction - Reinforcement etc.

BILLETS / BLOOMS

Billets : 65mm, 77mm, 90 mm, 125mm RCS
Blooms : 150 x 150, 200 x 200, 250 x 250
320 x 250mm

Forging, Re-rolling, General Engineering purposes etc.

'VIZAG UKKU' STRUCTURALS

Angles	50 x 50 x 6 - 110 x 110 x 10mm
Channels	100 x 50 - 200 x 75mm
Beams	125 x 70 - 150 x 75mm
Flats	80 x 12 - 100 x 20mm

Construction, Fabrication, Auto Leaf Springs etc.

@RINL VIZAG STEEL @RINL_VSP r.i.n.l