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GREEN FURNACE



Shirish Shirvaikar
Managing Director
Tenova Technologies Pvt Ltd

■ **Tenova to promote green technology for the sustainable future**

- Latest technologies to create zero-carbon footprints in the steel industry
- Coal India to set up Nine Coking Coal Washeries of 30 MT capacity
- 'China's stimulus - a boost to Australia's miners



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Editorial Desk



D. A. Chandekar
Editor

Dear Readers,

The iron & steel industry in India now seems to have well settled in terms of logistic linkages, raw materials availability & pricing and also the growing domestic markets. What more can you expect in today's uncertain environment prevailing in most parts of the globe. Falling currency values is one of the prime indicators of the economic condition and fortunately, Indian currency value depreciated less compared to the currencies of most of the countries. In fact, many countries, including few in the developed world, are fearing of a big depression round the corner where as experts are quite convinced that India is surely not heading towards any depression. Indian economy is driven by domestic consumption and this ensures a continuous forward pull and keeps running the economy wheel. If the economy is doing well and is growing, the core sectors including ours, have to be performing well. In today's era of communication, this positive industry sentiment can't be restricted only to Indian industry and will surely influence the neighboring and nearby economies. Thus I see very good prospects for the iron & steel

sector not only in India but in the Asian region as such.

Even if the above is true, please to not assume that the iron & steel sector in India is free of any problems. Growth itself comes with so many inherent problems but apart from those, in my opinion, technology adoption is a major problem in Indian iron & steel sector. Barring few top players, majority of casting, rolling and processing units in the country employ primitive outdated technology and processes making inferior quality products, that too at a higher cost and also following wrong shop floor practices and compromising on plant safety parameters. Effect of all this is manifold. Firstly, due to higher cost and inferior quality, one can't compete in the global marketplace, loosing the cream business. Higher cost affect the bottomline adversely and prevents the management from doing any developmental and up gradation work. Unsafe environment brings the worker's morale down and affects the overall efficiency of the plant. Slowly good professional employees start leaving such organization and the closure becomes an inevitable consequence, sooner or later.

Friends, what I want to say is one should take actions before it is too late. In today's globalised business environment, there is no alternative for technology and process up gradation. Do it in time and you will ride on the growth curve, delay it and get ready to be perished. Choice is yours !

Write your comments :

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Tenova to promote green technology for the sustainable future



"From the Indian perspective, in the recent COP26, our PM has committed to net zero GHG emissions by 2070. This needs to be translated into interim reduction targets for each decade. I would expect at least some Government guidelines for Industry and efforts to push the industry to reduce GHG emissions"

**Shirish Shirvaikar,
Managing Director,
Tenova Technologies Pvt Ltd**

Shirish Shirvaikar is the Managing Director of Tenova Technologies Pvt Ltd. He Graduated in Mechanical Engineering from Sardar Patel College of Engineering in the 1974 batch. After graduation, 1974 – 1979 worked at Vulcan Engineers Pvt Ltd as Sr. Project Engineer in Sales & Proposals - Industrial Furnaces.

Thereafter, from 1979 – 1983 worked at SF India Ltd as Sr Project Engineer – Industrial Fans and Pollution Control Equipment at Mumbai Branch and was responsible for sales and project execution.

During 1983 – 2001 worked at Vulcan Engineers Ltd in engineering, project management, and plant commissioning departments, responsible for a product line of kilns for processing limestone and minerals, coal gasification plants, seawater magnesia plant, and finally as General Manager – Business Development. In 2001 started a new company called Hypertherm Engineers Pvt Ltd was one of the promoters, which became a JV with Techint in 2006 and a subsidiary of Tenova in 2008.

Subsequently, he worked as CEO of Tenova Hypertherm / Tenova Metals during 2011-13 and Head of Tenova Metals, a div of Tenova India from 2013 to 2020 and thereafter he became the Managing Director of the company.

To minimize the climate change impact, Steel Manufacturing companies are adopting Green Steel Manufacturing Technology. Looking at this perspective,

Dnanesh Chandekar, Editor & CEO of Steelworld Magazine had an exclusive interaction with Shirish Shirvaikar, MD, Tenova Technologies Pvt. Ltd. to understand the innovative solution from the world partner for sustainable steel manufacturing technology provider.

Excerpts:

What is the present status of the Indian iron & steel sector, from the perspective of a technology supplier?

The iron & Steel industry has come a long way, starting from integrated steel plants in the public sector (except erstwhile TISCO) to the present-day plants in the private sector, thanks to the liberalization of industrial policy in the 1990s. The steady growth has put India on 2nd spot in terms of steel production which has now reached over 120 mtpa. Since most of the investment has taken place in the last 30 years, the plants, in general, are modern in terms of technology. However, there are over 900

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Face to Face

smaller units producing steel on a smaller scale and there is scope for technology upgradation in many of them including some of the SAIL plants.

How do you see the steel market for the next 2/3 years?

The outbreak of COVID in China and changes in the geopolitical situation, especially in eastern Europe have opened up dramatic possibilities for Indian steel producers to fill the gaps by positioning themselves to fill the gaps. This was one of the reasons for the dramatic increase in the price of steel since February 2022 and the Government had to impose an export duty to cool down the prices. Even if the conflict in eastern Europe ends, reconstruction there will boost the demand for steel. Domestically, Atmanirbhar policy and investments in defense and infrastructure will keep demand up. Many of the steel producers have undertaken expansion projects and this trend will continue for the next 4-5 years, so I see a very good market in the short to medium term. In fact, the demand for capital equipment will be so high that the steel industry will soon face a supply-side constraint for capital equipment which is going to affect expansion projects.

What, in your opinion, are the changes in the industry post covid?

COVID has brought a sea change in the way we operate and do business, it taught us to do things differently. Gone are the days when one had to wait for business visits, virtual meetings are easy, convenient, and cost-effective. In many cases,

quality checks and inspections can be done remotely and this practice will probably continue as added supplementary activity even post covid. Several plants were commissioned during the lockdown period using remote assistance and once again this practice will probably continue as added supplementary activity. There is the flexibility of working from home or in remote locations. People don't have to worry about the loss of working hours due to strikes and bandhs, one can effectively work from home.

How are the new concepts like Industry 4.0 or smart manufacturing affecting the industry?

There is general awareness about Industry 4.0 and smart manufacturing in the industry but I think we need to wait for some more time for effective implementation and derive the fruits of these new concepts. Tenova has embarked upon the development of several digital technologies which are now being offered for new installations. Tenova's portfolio includes smart burners that can provide real-time information on the combustion process, Tenova EDGE provides data collection on the cloud which can then be analyzed and used for various apps that are being developed, many times with the active participation of users. Many other It 4.0 transmitters are offered for health checks and assisting predictive maintenance. I suppose in the next 4-5 years such tools will be offered as standard and help the industry to be more competitive.

How do you see the steel

producing and processing by 2030?

We need to analyze this from two perspectives. EU is committed to net zero GHG emissions by 2050 and as an interim target, it is committed to a 55% reduction by 2030. There is presently a lot of focus on GHG reduction in the steel industry. Sustainability is the key word. Over the years, Tenova has invested in technologies for GHG reduction. Tenova DRI plants are fully capable of working on 100% Hydrogen and we have solutions for new plants and for replacements with minimal process changes. Already the first green steel has been produced in Europe and many new plants will be installed in Europe and China for the production of green steel. Tenova is already offering burners that can work with 50-100% Hydrogen. So in Europe, we will see a lot of change in the way steel will be produced and processed by 2030.

From the Indian perspective, in the recent COP26, our PM has committed to net zero GHG emissions by 2070. This needs to be translated into interim reduction targets for each decade. Unlike European Climate Law, these targets are not binding on Industry and I would expect at least some Government guidelines for Industry and efforts to push the industry to reduce GHG emissions. We see at least one steel producer seriously considering moving towards a replacement of Blast Furnace with DRI plant which would cut down CO2 emission by 25-30% even without using Hydrogen for DRI plant. Apart from this, I don't see a big change in the way steel will be produced by 2030 but I would expect some change in the way steel is processed by using greener fuel technologies. ■



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Latest technologies to create zero-carbon footprints in the steel industry

Introduction:

In this article some of the technological developments in the steel industry which generate zero carbon footprint/very low carbon footprints are discussed.

(1) Hybrit Process:

Three Swedish organizations, SSAB, LKAB, and Vattenfall started the project called 'Hybrit' ('Hydrogen Breakthrough Iron making Technology'). The goal is to create zero-carbon in steel production beginning from 2020.

Conventional production of pig iron includes coke and iron ore to remove oxygen. On the other hand, this process releases hazardous gas carbon dioxide into the atmosphere. The new generation Hybrit process utilizes hydrogen, which can remove the oxygen in the iron ore, yet the outcome is water vapor instead of

carbon dioxide. In this way, the Hybrit process is totally becoming green steel making technique.

The Hybrit process falls within several advancements that utilize hydrogen as a reducing agent, which is generated through electrolysis depending on sustainable power. From a natural point of view, the most significant benefit of this is that outgoing gases from this process are water rather than carbon dioxide. Comparison of iron production by the Blast Furnace route and Hybrit route are shown in the figure 1 above.

The products coming out from this process (HDR - Hot Direct Reduction) is called DRI (Direct Reduced Iron) or "sponge iron" which is fed into BOF (Basic oxygen furnace) or EAF (Electric arc furnace) mixed with an

appropriate amount of scrap, and further converted into steel. However, fact remains that this particular process has not been executed at the business scale.

A few individual segments in worldwide steel industries now broadly utilize this technology. Numerous parts of the HDR/EAF arrangement have been tried and sent in modern settings but key difficulties still remain.

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(2) Molten Oxide Electrolysis: Molten Oxide Electrolysis is an unconventional electrometallurgical system that allows quick production of metal in the liquid state from oxide raw material. It promises considerable simplification of the whole process and energy need minimization. Molten Oxide Electrolysis has utilizes anode materials which are graphite for use with Ferro-alloys and titanium and iridium for use with iron. It is several challenges were overcome to produce metal without process carbon such as process temperature, corrosion of metals, electrolysis conditions and abrasion of refractory



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He offers metallurgical consultancy services in the areas of Heat treatment and quality as well as process controls in cold rolling mills. He is B.Tech (Hons) and M.Tech. in Metallurgical Engg. form IIT Mumbai.

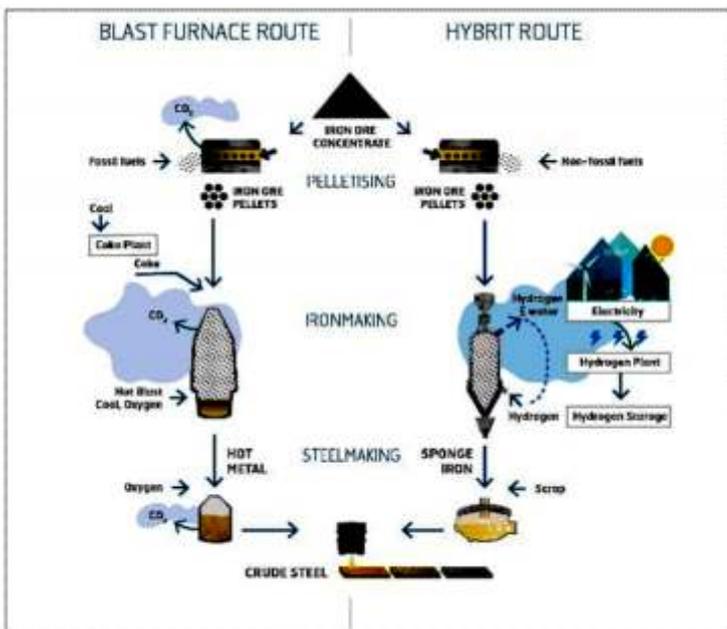


Figure 1: Blast furnace route & Hybrit route

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and use of electricity, however, normally incurs considerable energy conversion losses and relatively high costs. The Jet Process was therefore

metal bottleneck resulting from a blast furnace blow down, a furnace standstill for revamping purposes, or to increase the total steelmaking output.

to-structural-steel/
(2)<https://www.technologyreview.com/s/611961/this-mit-spinout-could-finally-clean-up-steel-one-of-the-globes-biggest-climate->



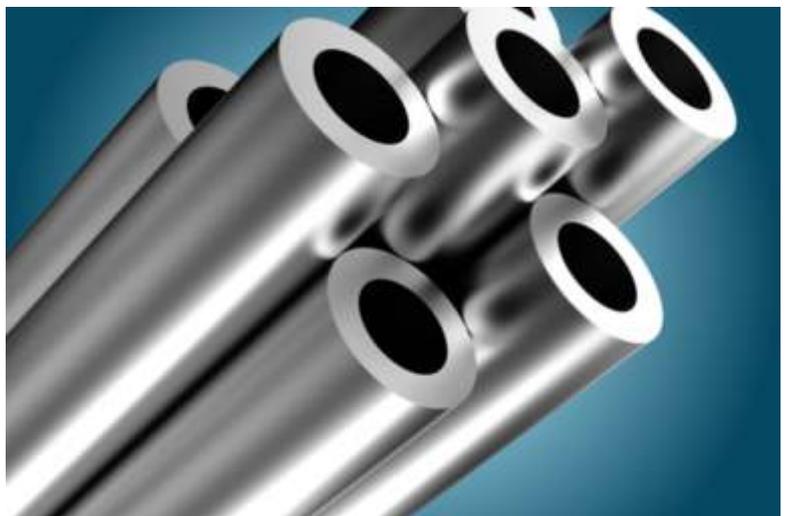
developed to utilize the chemical energy of coal in a highly efficient manner to enable higher the heat contained in the hot blast combined with CO post-combustion heat provides enough energy. For scrap or HBI rates close to 100%, step-wise or continuous charging in combination with hot heel operation is necessary.

Areas of application: There are a number of economically attractive market opportunities for the Jet Process. For example, if prices for scrap or HBI are lower than the costs for hot metal, application of this process with a converter charge of 50% scrap/HBI and 50% hot metal could be a highly feasible option. Other scenarios where the Jet Process offers unique advantages are during a hot

Efficient and economic: The Jet Process is ideally suited for medium to high scrap/HBI rates in converters of any size. It represents an attractive upgrading option for producers to flexibly respond to varying prices for hot metal, scrap and HBI. Converters equipped with this solution thus close the gap between conventional LD (BOF) plants and electric arc furnaces. As demonstrated at the steelworks of one of the world's largest producers, the Jet Process is very reliable and economically promising.

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Eco-Friendly Miner



'China's stimulus - a boost to Australia's miners

Australia's largest miners stand to benefit from increasing expectations that an aggressive post-lockdown building blitz in China will boost demand for some of their most lucrative exports even as economic growth in Western nations slows.

While rising inflation, the war in Ukraine and fears of an economic downturn are darkening the outlook for commodities, investors are betting that China, which accounts for more than 50 per cent of the world's demand for raw materials, will provide some insulation

for Australia's \$400 billion resources industry. Ausbil Global Resources Fund said there was a "divergent story developing in the world economy, between the East and the West" as surging inflation and interest rate rises risk sending Western economies into recession. The fund's co-portfolio managers Luke Smith and James Stewart said China, which is under less inflation pressure, had already commenced the process of stimulating growth and was expected to accelerate stimulus in the second half of 2022 and into

2023.

"While Western developed economies are slowing, China is reopening, and is likely to accelerate growth coming out of recent hard COVID lockdowns through significant stimulus," they said.

China is by far the biggest customer of Australia's most lucrative export, the steel-making raw material iron ore. The country accounted for \$126 billion of Australia's iron ore export earnings in 2021 alone.

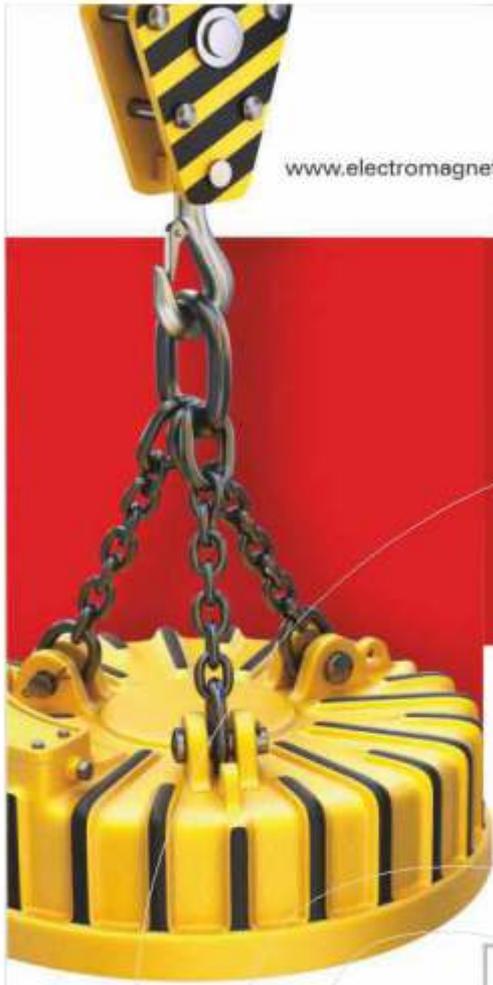
Rio Tinto halves dividend as falling iron ore price hits profit
However, iron ore producers

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Industry Update

including BHP, Rio Tinto and the Andrew “Twiggy” Forrest-led Fortescue are facing weaker market conditions this year, with iron ore prices dropping to as low as \$US100 (\$145) a tonne as COVID-19 restrictions and a property sector slowdown soften steel demand in China. Mining giant BHP last week said it was bracing for operating conditions to

executive Mike Henry said. “We see that as being a tailwind for global growth ... and we are expecting a degree of stimulus in China as well.”

Rio Tinto, the largest Australian producer of the steel-making material iron ore, said China was not experiencing the same inflation pressures as the US or countries in Europe, which was “good news for Rio

the 2008 Global Financial Crisis, Ausbil expected “some similarities” in the way China would respond by using aggressive stimulus to turbocharge its economy, which would require significant demand for raw materials to build infrastructure.

Between 2008 and 2009, iron ore demand in China grew by 16 per cent and 41 per cent respectively, supported by stimulus activity, Ausbil said.



Demand for copper in China grew 20 per cent a year, even as demand in the rest of the world fell by an average of 10 per cent. China’s nickel demand fell 13 per cent in 2008, but grew significantly from 2009 despite dropping by 15 per cent in the rest of the world.

remain “volatile” in the near term, but expected China’s economy to improve throughout the financial year.

“Against the backdrop of what we see as slower overall global growth as central banks put in place measures to deal with the higher inflation we are seeing in most developed economies, if I contrast that with China, China is trying to come out of its COVID lockdowns,” BHP chief

Tinto” because it gave Beijing more scope for stimulus.

“You just look at what their growth targets are, and that means they will probably have to do some stimulating of the economy, and they know exactly how to do that,” Rio Tinto chief executive Jakob Stausholm said. “I am cautiously optimistic, but not naive – there are headwinds.”

Although the world was not facing an economic environment comparable to

“Although demand may soften from the West, markets are tight, and any acceleration from Chinese demand should underpin prices that are already stretched,” Smith and Stewart said.

“From an investment perspective, this does not mean we are aggressively invested in the current environment, given significant uncertainty, but this view does support us maintaining a positive net exposure in the current market.”



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Coal India to set up Nine Coking Coal Washeries of 30 MT capacity

India needs aggressive focus on increasing coking coal production to reduce import dependence. Union Minister of Coal, Mines and Parliamentary Affairs, Pralhad Joshi said this while inviting suggestions from all stakeholders for finding technology solution and using available coking coal in the country.

Joshi was addressing a workshop on "Coking Coal Strategy for Indian Steel Sector" moving towards an Atmanirbhar Bharat, organised by the Ministry of Coal, the Coal India Limited (CIL), and the Confederation of Indian Industry here

today. Speaking on the occasion, the minister stated that there has been increase in import of coking coal in the last few years although domestic coking coal production also increased to 51.7 million ton.

This year in 2022-23 in the first quarter the growth in coking coal production was 26%. The coking coal block auction did not receive good response from industry and Ministry of Coal is keen to understand the issues faced by industry in this regard. The minister urged to find technology solution and powerful strategies for using available coking coal in the

country which will help the sector aligning with the Prime Minister's five-point vision towards an Atmanirbhar Bharat.

The policy enablers are in place mainly with the amendments of MMDR Act with respect to relaxation of norms for private sector in allocation of coking coal mining blocks, exploration norms, and 50% rebate for coal gasification, among others. Government is ready to bring in place all measures to enhance coking coal production, the minister added, with the abandoned coal blocks being sought from PSUs to be auctioned and rolling auction in commercial coking coal blocks.

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Technology

There are nine new coking coal washeries having capacity 30 million ton to be set up by Coal India Ltd (CIL) and necessary infrastructure reform has

of Coal too acknowledged the significant progress in coking coal production. Highlighting Government's mission strategy for augmenting coking coal, Shri

between the supply and demand sides of coking coal, delineating the role of private sector, improving the quality by substituting low-grade coal, and bringing high focus on technology integration.

Technical sessions on demand and supply of coking coal to steel sector, beneficiation of coking coal, technology upgradation for steel, panel discussion, CEO session and question answer sessions were the highlights of the crucial one day workshop.

Dr. AK Jain, Secretary, Shri M. Nagaraju, Additional Secretary, Ministry of Coal, Shri Pramod Agarwal, Chairman, CIL, Shri Sanjay Singh, Secretary, Ministry of Steel, Smt. Soma Mondal Chairman, SAIL, eminent industrialists and experts from coal and steel sectors participated in the workshop and discussed different avenues to enhance production of domestic coking coal and reduce import dependence in the coming years.

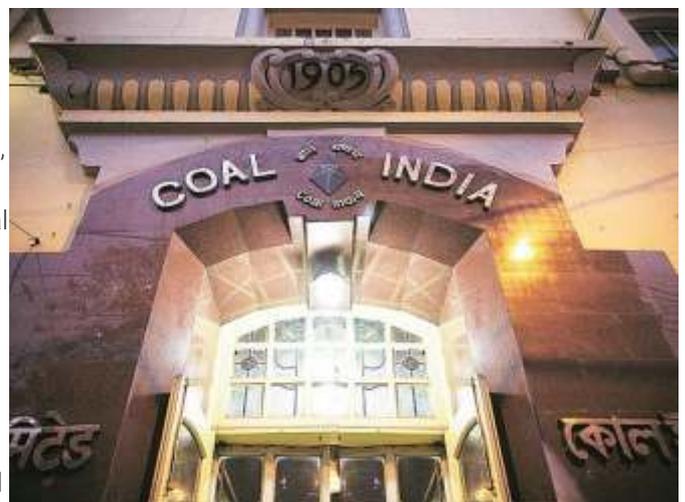


been made for the same. Sanjay Singh, Secretary, Ministry of Steel made a narrative on domestic coking coal production while highlighting the dichotomy of coking coal. The steel sector needs 60 million ton coking coal, 90% of which is met through imports. The ministry has initiated working on a strategy for having domestic coal use in blast furnaces and washeries and increase domestic coal blending to 25-35%. Shri Singh suggested increase in consumption and scrap generation as short-term strategy and four-time production increase in the longer-term for lowering dependence on iron ore and coking coal.

A K Jain, Secretary, Ministry

Jain said, coking coal is a fuel for the steel sector and reforms are needed to track investment in the industry, especially in the coal abundant areas. Significant use of technology will be in focus for washing coal, lowering ash content and further bringing end to end solution to enhance domestic coking coal production. The government is open to all ideas including opening of closed washeries, leasing out washeries set up by CIL, managing coking coal mines, and integrating technology applications Jain further added.

Welcoming the minister and other dignitaries in the seminar, Pramod Agrawal, Chairman, Coal India Limited emphasised on a four-point agenda of bringing balance

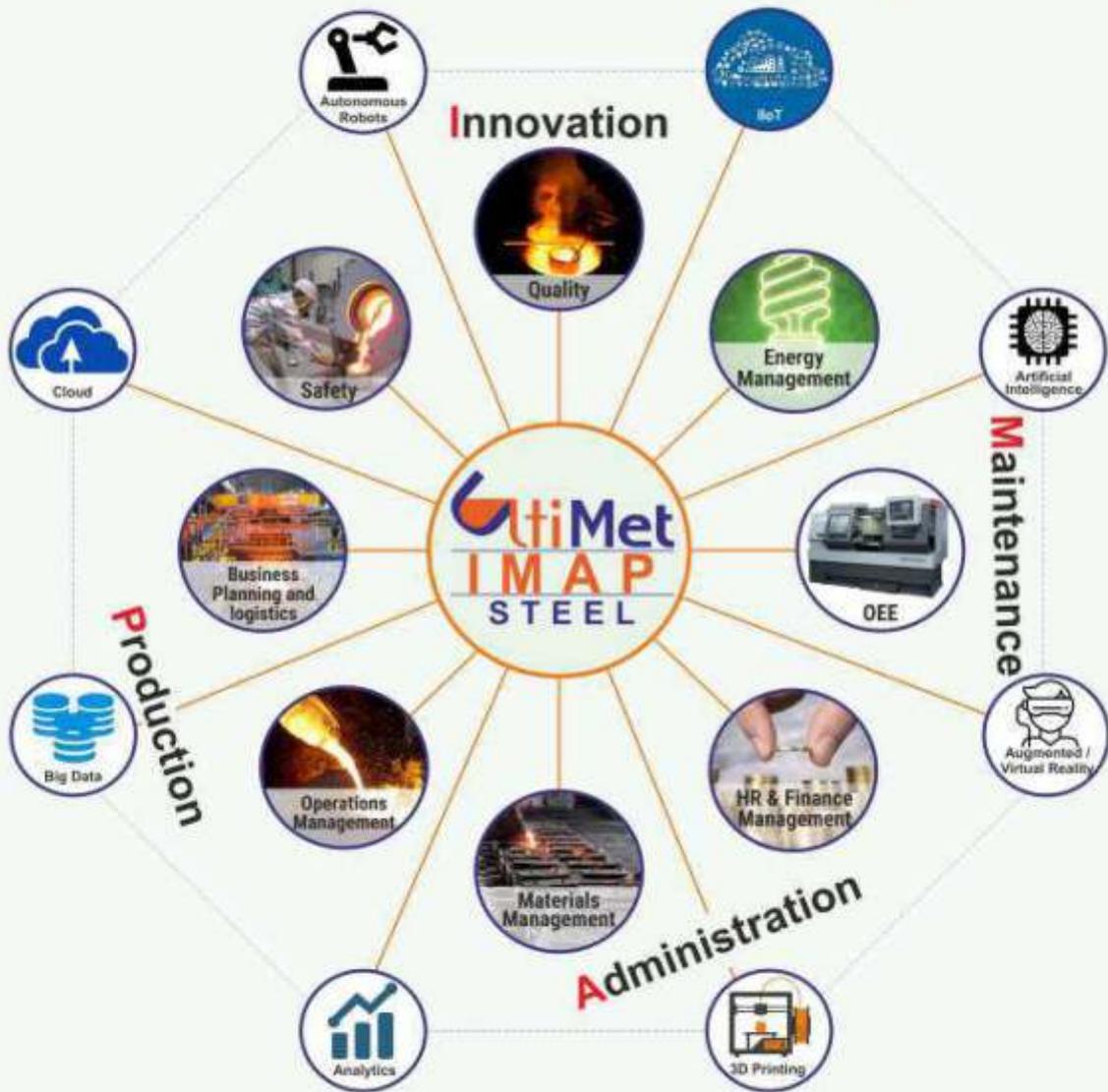


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SAIL declares Q1 results for financial year 2022-23, posts more than 16% growth in Revenue from Operations over CPLY

Steel Authority of India Limited (SAIL) posted its financial performance for the first quarter of the current financial year 2022-23 (Q1 FY 23). The company saw a growth of 16.4% in its revenue from operations in Q1 FY23 over corresponding period last year. SAIL also recorded the best ever Q1 production.

	Unit	Q1 22-23	Q1 21-22
Crude Steel Production	Million Tonne	4.33	3.77
Sales Volume	Million Tonne	3.15	3.33
Revenue from Operations	Rs. Crore	24029	20642
Earnings Before Interest, Tax, Depreciation and Amortisation (EBITDA)	Rs. Crore	2606	6674
Profit Before Tax (PBT)	Rs. Crore	1038	5145
Profit After Tax (PAT)	Rs. Crore	776	3850

The first quarter of FY'23 saw twin challenges of higher input costs and subdued market demand, both global and domestic, impacting the performance of the company. High cost of production due to increase in imported coking coal prices had an impact on the bottom-line of the company.

The decline in global demand and prices for steel had a direct bearing on the domestic market and price realisation. Since peaking in April'22, the prices for steel have continuously remained under pressure during the quarter.

The Company, however, said that the construction and infrastructure projects have gained momentum which will boost the demand for steel products. The company is confident of improved performances in the second half of the current financial year with significant reduction in prices of imported coal and uptick in demand.

“RINL presented prestigious National award Dr. CVN - PRSI Best PR Manager of the Year award– 2022”

Sri RP Sharma, GM (Corporate Communications)-In-charge & Head of Corporate Communications department was presented the prestigious “National Award: Dr. CVN - PRSI Best PR Manager of the Year – 2022” at the 15 Public Relations Education Day celebrations organised at Hyderabad today by the Public Relations Society Of India (PRSI), Hyderabad Chapter and CVN Public Relations Foundation, Hyderabad.

Prof. R. Limbadri, Chairman, Telangana State Council of Higher Education presented the National award to Sri RP Sharma in the august presence of Sri KattaSekhar Reddy, Information Commissioner, Telangana state information commission, Sri Syed Animul Hasan Jafri, MLC,

Telangana State Legislative council, Sri Y. Babji, Secretary general, PRSI, Smt. C. Ramadevi, Chairperson, CVN PR Foundation, Sri US Sarma, National Vice-President (South), PRSI, Dr.P.Venugopal Reddy, Chairman, PRSI, Hyderabad Chapter.

National Award “Dr. CVN-PRSI : Best Public Relations Manager of the Year” was Instituted in 1994 by CVN PR Foundation, this award was presented at the state level till 2019.

From 2021 onwards, the nominations for the award are invited from all over the country by Public Relations Society of India, a national association of PR practitioners.

This Award is administered by PRSI in memory of PR Legend, Dr. C. V. Narasimha Reddi, Former Director, I & PR Department, Govt of AP - the Founder Editor of 'PR Voice'.

Sri RP Sharma was selected for Best Public Relations Manager of the Year 2022 in recognition of his effective, dynamic, pro-active approach as the Head of corporate communication the vital link between the Organization and its stakeholder.

As head of Corporate Communications, RINL, RP Sharma was significantly involved in the corporate image building, enhancing Brand image, strengthening communications both with internal and external public, media relations, Crisis management. With due diligence, Sri RP Sharma, has coordinated various communication campaigns towards "Prevention of CORONA Virus" across the Visakhapatnam Steel Plant and its Mines and Marketing offices too.



Prof. R. Limbadri, Chairman, Telangana State Council of Higher Education presenting the National Award Dr.CVN-PRSI Best Public Relations Manager of the Year-2022 to Sri RP Sharma, GM(Corporate Communications) -Incharge, RINL, Visakhapatnam Steel Plant in the august presence of Sri KattaSekhar Reddy, Information Commissioner, Telangana state information commission, Sri Syed Animul Hasan Jafri, MLC, Telangana State Legislative council, Sri Y. Babji, Secretary general, PRSI, Smt. C. Ramadevi, Chairperson, CVN PR Foundation, Sri US Sarma, National Vice-President (South), PRSI, Dr.P.Venugopal Reddy, Chairman, PRSI, Hyderabad Chapter.



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Tata Steel receives the coveted JRDQV award and 'Benchmark Leader' recognition



Tata Steel has received the coveted JRDQV award at an enterprise level and was also recognised as the 'Benchmark Leader' under the Tata Business Excellence Model (TBEM) Assessment for the Assessment Year 2021. The JRDQV Award 2022 function was held in Mumbai on July 29, 2022 - the 118th Birth Anniversary of BharatRatnaJehangirRatanjiDadabhoi (JRD) Tata. N. Chandrasekaran, Chairman, Tata Group, presented the award to T. V.Narendran, CEO & MD, Tata Steel. On the occasion, T. V. Narendran, CEO & MD, Tata Steel, congratulated the entire Tata Steel family including Senior Leadership team, Union Members, and employees who exhibited a relentless pursuit of excellence over the years and remarked how the organisation wide efforts have helped the Company reach the level of 'Benchmark Leader' making this yet another milestone.

The assessment was carried out for Tata Steel in India at an enterprise level, covering all business units of the India operation as one entity. The Company went through a rigorous assessment carried out by a 24-member team comprising members from various Tata Group companies and mentored by Harish Bhat, Brand Custodian Tata Sons.

The steel business unit of Tata Steel is credited with the prestigious honour of being the first recipient in the Tata Group to be recognised with the JRDQV award in the year 2000. Later, the Tubes division, Wires division, and the Ferro Alloys and Minerals Division (FAMD) had also reached this milestone.

IIT Bombay, JSW Group Collaborate to establish Technology Hub for Steel manufacturing in India



IIT Bombay collaborated with JSW Group to establish first-of-its-kind, state-of-the-art, JSW Technology Hub in India for steel manufacturing. IIT Bombay has created The Centre of Excellence in Steel Technology (CoEST) through support from the ministry of steel, government of India, and other industry partners.

The JSW Technology Hub will be established within the CoEST with the key objective of achieving a rapid expansion of quality steel production while maintaining carbon emissions within the target levels.

"The partnership with IIT Bombay will also allow JSW Group to undertake and intensify R&D efforts in the Steel sector to develop competent capabilities in the area of steel technology for the Indian conglomerate. The JSW Technology Hub will also be the nodal point for JSW Group's research activities beyond the steel domain," said the institute.

Deadline for PLI application for speciality steel extended till Sept 15



Credit and Finance for MSMEs: The deadline to submit applications for speciality steel has been extended for the fifth time now. The last date to submit applications initially was March 29, 2022.

The deadline to submit applications under the

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News Update

production-linked incentive (PLI) scheme for speciality steel has been extended till September 15. According to the Press Trust of India report, the previous deadline to submit the applications was July 31. The central government has extended the deadline for the fifth time now.

The manufacturers originally had to apply for the benefits under the PLI scheme by March 29 this year. The last date was however extended to April 30, then to May 31. It further got postponed to June 30 and then July 31.

A budget of Rs 6,322 crore was approved by the government last year under the PLI scheme with an intent to boost the production of speciality steel in the country.

The steel ministry released a statement on Thursday announcing the extended deadlines. It said that the last date for receipt of applications under the PLI Scheme for Specialty Steel through the online application window has been extended up to September 15.

"Criteria for participation, eligibility and other parameters have been notified on July 29, and the same are available on the portal. Interested companies are requested to first register and then apply on the portal well before the deadline," the statement said.

Approved by the cabinet under the chairmanship of Prime Minister Narendra Modi, the PLI scheme is expected to attract an additional investment of Rs 40,000 crore in the Aatm Nirbhar initiative and generate 5.25 lakh jobs in the country, according to a statement.

BRO to build First Steel Slag Road in Arunachal Pradesh

The Border Road Organization (BRO) will build Steel Slag Road in Arunachal Pradesh based on the Pilot project. The Steel Slag Road is the first of its kind Project which aims to make durable roadways that can withstand heavy rain and adverse climatic conditions. Arunachal Pradesh has some treacherous areas and locations which suffer from heavy rain and adverse climatic conditions, the Steel Slag Road project will help to resolve the connection between the help centres and the affected areas.

The BRO has finalized this as a solution for finding every possibility to help people stuck in heavy rain and adverse climate. Not only in Arunachal Pradesh, this Steel Slag Road project will help to connect the strategic locations in North Eastern India.

1. Durability is the major benefit of Steel Slag. The use of Steel Slag to construct roads will improve the durability and quality of roads making them safer.
2. India is the second largest producer of steel, and using steel Slag will be a cost-effective option. The cost of constructing roads using Steel Slag is relatively less than

constructing roads with concrete or cement.

3. The Steel industry in India produces a huge amount of steel and after the recovery of metal, a major portion of steel Slag is discarded. The use of Steel Slag on roads will help in reducing the waste and recycling the waste of the Steel industries in India.

4. The carbon footprint in the Steel Slag Roads is lower than usual roads built with other materials.

JSW Steel Joins hands with NZ's National Steel to set up scrap shredding facilities in India



JSW Steel Limited on Friday (19 August) announced that it has entered into a joint venture agreement with New Zealand based National Steel Holdings Limited (NSHL) for setting up scrap shredding facilities in India.

"JSW Steel Limited has entered into a joint venture agreement with National Steel Holdings Limited on August 18, 2022 for the purposes of establishing scrap shredding facilities in India using industry leading machinery, technical know-how and relevant processes in a suitable manner," the company said in a regulatory filing. This is in furtherance of the company's endeavour to reduce its carbon footprint by setting a target of achieving 42 per cent reduction in CO2 emissions intensity by FY 2030, from the base year of 2005, it added.

CCI clears proposed merger of JSW Ispat, Creixent Special Steels with JSW Steel

Fair trade regulator Competition Commission of India (CCI) on Thursday approved the proposal to merge Creixent Special Steels and JSW Ispat into JSW Steel. In May, JSW Steel announced the merger deal. JSW Steel and JSW Ispat are into manufacturing and sale of steel products while Creixent Special Steels (CSSL) is in the business of holding investments. In a tweet on Thursday, CCI said it has approved the "amalgamation of Creixent Special Steels and JSW Ispat Special Products with and into JSW Steel".

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News Update

The combination involves Katsura's Investments' acquisition of up to 40 per cent stake in the VarmoraGranito Pvt Ltd along with acquisition of certain rights in the company and certain other target entities. The regulator has approved the "acquisition by Katsura Investments in VarmoraGranito Pvt Ltd and certain other entities; and VarmoraGranito Pvt Ltd in some of its group companies and other entities," according to another tweet.

Iron ore price tumbles as China power shortages hit steel mills



The iron ore price fell on 17th August as electricity rationing in parts of China has led to steel mill shutdowns. Iron ore's most-traded January 2023 contract on China's Dalian Commodity Exchange tumbled as much as 4.4% to 683.50 yuan (\$100.87) a tonne, its lowest since July 28.

A heatwave gripping several regions in China since mid-July has caused power shortages, forcing authorities to ration electricity.

Nearly 20 steel mills in China's southwest regions had suspended operations as of Wednesday, according to steel industry data provider SMM. The power rationing is expected to continue for a week, according to SMM.

"Our base case is that the power rationing this time around should be milder than that seen last year in terms of duration and scale," J.P. Morgan analysts said in a note, adding that it will likely be confined to few provinces. Rising iron ore supply in China also weighed on prices.

Stocks of imported iron ore at Chinese ports have steadily risen over the past seven weeks, hitting 138.6 million tonnes as of Aug. 12, the highest since mid-May, according to data from Mysteel consultancy.

Ministry of Steel chairs meeting with Integrated Steel Plants and Secondary Sector industry

The Union Minister of Steel & Civil Aviation, Shri Jyotiraditya M. Scindia chaired a meeting of the two Advisory Committees formed for Integrated Steel Plants and the Secondary Steel industry on 8th August 2022. The Minister of State for Steel and Rural Development,



Shri Faggan Singh Kulaste was also present at the meeting. Eminent members of the steel industry, associations, academia, senior retired officials from the Government are members of the Committees.

In the first meeting held yesterday, it was decided that these Committees shall deliberate on the issues of importance pertaining to the steel sector.

Addressing the members of the Committee, the Minister emphasised that the mantra of the Government is to make decision-making participatory. There is a great amount of interplay between various other sectors including logistics, coal & mines, the State Governments etc. The purpose of forming Advisory Committees is to ensure active participation of stakeholders to listen to the issues and possible course of action directly from the stakeholders, which will ensure success of steel sector. Issues to be dealt on priority were identified by both the Advisory Committees.

Shri Jyotiraditya M. Scindia urged the industry to take active part in the Advisory Committees and said that the periodicity of the meetings will depend upon the industry's desire to push forward to resolve issues common to the sector.

Thanking the Minister, the Committee members welcomed the idea of formation of the Committees and assured full cooperation for robust development of the sector and achieving the targets set in the National Steel Policy 2017.

India's steel output grows 6% to 10 MT in June - WSO

India's crude steel production rose over 6 per cent year-on-year to 10 million tonnes in June 2022, according to World Steel Association.

India's crude steel production rose over 6 per cent year-on-year to 10 million tonnes in June 2022, according to World Steel Association.

As per the World Steel Association (worldsteel) data, India is the only country which has registered a positive growth in its steel output during June.

The country had produced 9.4 million tonnes (MT) crude steel during the same month last year, the global industry body said in its latest report.



India is world's second largest producer of crude steel after China which produced 90.7 MT in June 2022, down 3.3 per cent over its 93.9 MT production in June 2021.

The production in the United States fell by 4.2 per cent to 6.9 MT last month from 7.1 MT in the same month of 2021.

Russia -- which has been engaged in a conflict with Ukraine -- is estimated to have produced 5 MT, down 22.2 per cent over 6.4 MT a year ago.

Russia has registered the highest fall among top 10 steel producers.

While South Korea registered a 6 per cent fall to 5.6 MT, Germany produced 3.2 MT, down 7 per cent year-on-year.

In June 2022, Turkey produced 2.9 MT crude steel, down 13.1 per cent, and Brazil is estimated to have produced 2.9 MT, registering a fall of 6.1 per cent.

Iran is estimated to have produced 2.2 MT, down 10.8 per cent.

Brussels-headquartered worldsteel having members in every major steel-producing country, represents steel producers, national and regional steel industry associations, and steel research institutes.

Secondary steelmakers face double whammy as prices of key inputs rise

Medium and small steelmakers in India are feeling the heat as prices of key inputs like sponge iron and imported scrap steel continue to rise amid a correction in the prices of finished steel.

Called secondary steelmakers, these companies use sponge iron or scrap steel in electric arc furnaces to make steel. This is unlike large, primary steelmakers which operate blast furnaces to purify iron ore and then use that for steelmaking.

Coal crisis: Steel makers in Chhattisgarh look to enhance supply

The mineral-rich state contributes about 20 per cent to the country's secondary steel

Reeling from a severe coal crisis, secondary steel makers in Chhattisgarh are looking to enhance supply from the mines in the state.

The mineral-rich state contributes about 20 per cent to the country's secondary steel output.

"The annual requirement of coal for steel industries, including captive power plants in Chhattisgarh, is around 20-22 MT. But we are getting hardly 25 per cent of the demand," said Anil Nachrani, member of the steel ministry's advisory committee for secondary steel industry and president of Chhattisgarh sponge iron



manufacturers association.

Also Read: CIL's coal output in double digits for four consecutive months in July

Chhattisgarh Chief Minister Bhupesh Baghel has come out in support of the industry and has written to Union Minister Pralhad Joshi to address the issue. "You will agree that it would be a very unfortunate decision for the state to not be able to supply coal to its small-scale industries," Baghel said in his letter.

He said South Eastern Coalfields Limited (SECL) had decided to stop the coal supply to Chhattisgarh-based steel units and other industries (except power sector) from August.

"This would have a serious impact on the economy and the industrial facilities barring power plants had to be shut down," the Chief Minister said.

Baghel urged Joshi to direct SECL officers to continue the supply of coal. SECL spokesperson did not respond to the company's version on the issue.





Automobile dispatches jumped by 10.6% on easing chip supply: SIAM



India's Automobile dispatches to dealers jumped 10.6% in 17,06,545 units in July, aided by increased production following improved semiconductor availability. However, the markets for entry-level passenger cars, two-wheelers and three-wheelers are yet to recover, ahead of the festive season, according to the Society of Indian

Automobile Manufacturers (SIAM).

"In July 2022, sales in the passenger vehicle segment stood at 2.9 lakh units; two-wheelers [clocked] 13.8 lakh units and three-wheeler sales were 31,000 units," Rajesh Menon, director general, SIAM said.

While commenting on the July 2022 sales data, Mr Rajesh Menon, Director General, SIAM said "In July 2022, sales in the Passenger vehicle segment stood at ~2.9 lakh units, in Two-wheeler segment ~13.8 lakh units and in Three-wheeler segment ~31 thousand units. Market for entry level Passenger Cars, Two-Wheelers and Three-Wheelers are yet to recover.

Sales of Two-Wheelers in July 2022 are still below July 2016 numbers and Sales of Three-Wheelers are still below July 2006 numbers. Third hike in a repo-rates in a row, to rein in high inflation, will make Auto loans costlier, making it more difficult for entry level vehicles to recover.

SIAM would also like to whole-heartedly thank the Government of India for the recent decision to allocate higher amount of domestic gas for the CNG segment. This would significantly bring down the input cost of gas companies. We hope, that in line with the Government's intent, the gas companies

would pass on the entire benefit to the end consumers by reducing retail CNG prices."

Domestic Sales: July

Category	Domestic Sales (In Nos.)	
	July-21	July-22
Passenger Vehicles (PVs)*		
Passenger Cars	130,080	143,522
Utility Vehicles (UVs)	124,057	137,104
Vans	10,305	13,239
Total Passenger Vehicles (PVs)	264,442	293,865
Three Wheelers		
Passenger Carrier	10,911	22,427
Goods Carrier	6,832	6,663
E-Rickshaw	366	1,814
E-Cart	23	420
Total Three Wheelers	18,132	31,324
Two Wheelers		
Scooter/ Scooterette	373,695	479,159
Motorcycle/Step-Throughs	837,166	870,028
Mopeds	49,279	32,116
Total Two Wheelers	1,260,140	1,381,303
Quadricycle	2	53
Grand Total	1,542,716	1,706,545

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



Domestic Sales: April-July

Category	Domestic Sales (In Nos)	
	April-July-21	April-July-22
Passenger Vehicles (PVs)**		
Passenger Cars	467,271	554,963
Utility Vehicles (UVs)	410,149	601,662
Vans	33,294	47,671
Total Passenger Vehicles (PVs)	910,714	1,204,296
Three Wheelers		
Passenger Carrier	26,073	73,090
Goods Carrier	15,493	28,013
E-Rickshaw	1,009	5,381
E-Cart	79	1,133
Total Three Wheelers	42,654	107,617
Two Wheelers		
Scooter/ Scooterette	977,986	1,687,062
Motorcycle/Step-Throughs	2,577,474	3,275,256
Mopeds	118,288	143,518
Total Two Wheelers	3,673,748	5,105,836
Quadricycle	2	154
Grand Total	4,627,118	6,417,903

** BMW, Mercedes & Volvo Auto data is not available, Tata Motors data is only available for Apr-Jun

SIAM						
Segment wise Comparative Production, Domestic Sales & Exports data for the month of July 2022						
(Number of Vehicles)						
Category Segment/Subsegment	Production		Domestic Sales		Exports	
	July		July		July	
	2021	2022	2021	2022	2021	2022
Passenger Vehicles (PVs)*						
Passenger Cars	175,218	180,069	130,080	143,522	34,933	35,639
Utility Vehicles (UVs)	147,658	165,259	124,057	137,104	17,383	18,269
Vans	10,493	13,560	10,305	13,239	3	165
Total Passenger Vehicles (PVs)	333,369	358,888	264,442	293,865	52,319	54,073
Three Wheelers						
Passenger Carrier	55,423	59,031	10,911	22,427	44,660	37,674
Goods Carrier	7,389	6,953	6,832	6,663	337	407
E-Rickshaw	465	1,831	366	1,814	-	-
E-Cart	23	389	23	420	-	-
Total Three Wheelers	63,300	68,204	18,132	31,324	44,997	38,081
Two Wheelers						
Scooter/ Scooterette	430,867	552,217	373,695	479,159	33,678	50,491
Motorcycle/Step-Throughs	1,223,412	1,183,182	837,166	870,028	343,194	306,305
Mopeds	53,252	35,277	49,279	32,116	326	702
Total Two Wheelers	1,707,531	1,770,676	1,260,140	1,381,303	377,198	357,498
Quadricycle	402	186	2	53	426	144
Grand Total	2,104,602	2,197,954	1,542,716	1,706,545	474,940	449,796
* BMW, Mercedes, Tata Motors and Volvo Auto data is not available						
Society of Indian Automobile Manufacturers (12/08/2022)						

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SIAM						
Summary Report: Cumulative Production, Domestic Sales & Exports data for the period of April-July 2022						
						Report I
						(Number of Vehicles)
Category Segment/Subsegment	Production		Domestic Sales		Exports	
	April-July		April-July		April-July	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23
Passenger Vehicles (PVs)*						
Passenger Cars	610,836	690,895	467,271	554,963	114,292	140,039
Utility Vehicles (UVs)	488,511	682,648	410,149	601,662	64,519	73,816
Vans	34,681	48,044	33,294	47,671	591	481
Total Passenger Vehicles (PVs)	1,134,028	1,421,587	910,714	1,204,296	179,402	214,336
Three Wheelers						
Passenger Carrier	204,731	203,577	26,073	73,090	179,052	133,712
Goods Carrier	19,798	30,213	15,493	28,013	3,527	1,606
E-Rickshaw	838	4,981	1,009	5,381	-	-
E-Card	80	1,122	79	1,133	-	-
Total Three Wheelers	225,447	239,893	42,654	107,617	182,579	135,318
Two Wheelers						
Scooter/ Scooterette	1,136,126	1,828,690	977,986	1,687,062	123,896	147,266
Motorcycle/Step-Throughs	3,946,757	4,634,028	2,577,474	3,275,256	1,385,183	1,357,782
Mopeds	116,738	142,383	118,288	143,518	5,294	1,044
Total Two Wheelers	5,199,621	6,605,101	3,673,748	5,105,836	1,514,373	1,506,092
Quadricycle	2,050	687	2	154	2,051	540
Grand Total	6,561,146	8,267,268	4,627,118	6,417,903	1,878,405	1,856,286
* BMW, Mercedes, Volvo Auto data is not available and Tata Motors data is available for Apr-June only						
Society of Indian Automobile Manufacturers (12/08/2022)						

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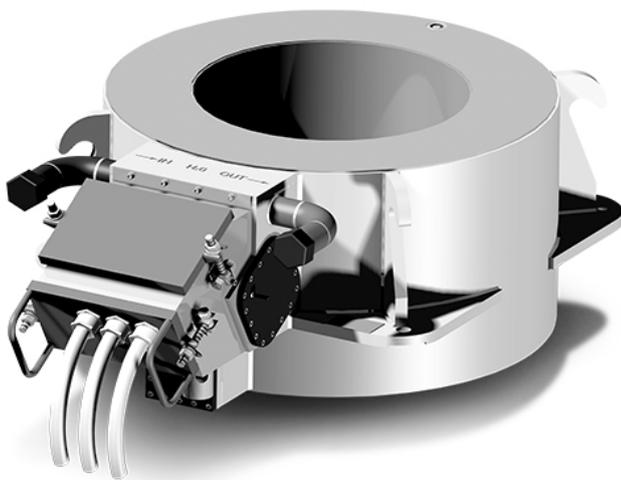


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- EAF, LF & ladles Stirrers
- Aluminum furnace Stirrers
- No-Fe caster Stirrers
- Mould Level Detectors based on inductive, ultrasonic or optical sensors (ILD, ULD, OLD)
- Powder Thickness Control based on ultrasonic, laser line or induction sensors
- Automatic Mould Powder Feeders (MPF)
- Vibrational & Optical Slag Detectors (VSD & OSD) for ladle-tundish
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- Magnetic Field Meter (MFM) for Stirrers
- Stirrer maintenance & reconditioning



Engineering & Technologies

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