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■"India is the fastest growing **Lime Industry** across the globe"-Arun Kumar Barad, Secretary, Bharat

- Tata Steel: Sustainability Champion for the
- **Industry in** India'
- Unlocking potential: **Bio Fuel substitution** in Net Zero Journey





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#### **Editorial Desk**





#### **Editor**

Dear Readers,

have always been making a point through this column that the India's economic growth is backed by the infrastructure development and steel industry is in the center of the infrastructure development process. Thus if India's economy (meaning GDP) has to grow for the next few years, it needs a strong support from iron & steel industry. This thought process makes us confident about the future of iron & steel industry in the country. Yes, the steel industry in India has a bright future on a long term basis bu this does not by any chance means that it is free of all the problems. Rather I would say, it has to overcome many hurdles, tackle many issues so as to ensure a smooth upward journey.

What are the issues presently facing the industry? I can say that the first and foremost issue is that India does not have enough plant designing and building capacity. If we have to reach up to a capacity level of around 300 MTPA by 2030-31, we have to naturally augment our capacity. How many companies are there in the country which can design and build a steel plant? I would say only a handful of them. The second issue in the priority list is lack of technically qualified manpower. Are

we aware that very few engineering colleges in India offer metallurgy stream and very few metallurgists remain in metallurgical profession after passing out. They are 'snatched away' by the industries offering better packages and better work environment. Seeing all this, many engineering colleges have either stopped offering metallurgy stream or integrated it in the Material science stream. What are we as an industry doing about it? Steel industry, being a core and very important industry for the economic growth of the country, has got a separate ministry. Why this ministry can not look into such basic and fundamental issues which will surely hurt the industry and also the economy in the long run?

Now let us discuss about the international situation. We know that the Eurozone is stagnated for the last few years and India's steel exports to this region have decreased over the years. Also the Russia – Ukraine war as well as the proposed CBAM post 2026 has further deteriorated the situation and thus I don't see much growth in India's exports to Eurozone. MENA region was another big export destination for us but given the fluid and war like situation in many countries in the region, it may not be advisable to depend on this region for the exports. For SE Asian countries, we have a big competitor like China and Africa is yet to awake

Given such a situation in the global marketplace, in my opinion the best strategy is to look inward. India is the biggest emerging market in the world. Our rural markets have tremendous untapped potential. Develop products suitable and useful for rural life. There lies the future!

 $\label{eq:Write your comments:} Write your comments:$ 

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The views and opinions expressed in the articles are solely of the authors.

The Editor may not subscribe to these.

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Global steel output declined by 4.3% over the year

Arcelormittal Nippon Steel India in talks for \$1 bn Ioan to fund growth

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SSAB to replace Luleå blast furnace with fossil-free mini mill

US Steel and CarbonFree, supplier of carbon capture technology, have signed a definitive agreement to capture carbon emissions generated from the North American steelmaker's Gary Works blast furnaces in a first-of-its-kind project.

#### Statistics

38 Domestic passenger vehicle sales rise by 11% in February – SIAM

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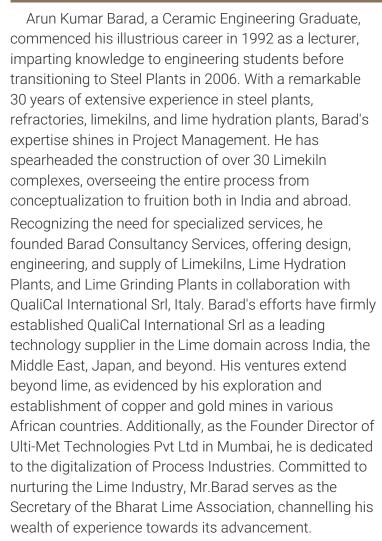
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# "India is the fastest growing Lime Industry across the globe"-

**Arun Kumar Barad,** Secretary, Bharat Lime Association



D A Chandekar, Editor & CEO of Steelworld had an exclusive interaction with Arun Kumar Barad to understand more about the present situation in the lime sector in India, challenges faced by Indian Lime Industry, future of Lime Industry in India, etc



#### How is the present situation in the lime sector in India?

Presently India is the fastest growing Lime Industry across the globe. The major growth is



forecasted in Steel Industry, followed by paper & Chemical Industry. Further AAC Bricks industry is expected to grow exponentially in coming years. Due to strict environmental norms India is expected to replace the huge number of existing kilns with Modern Kilns.

What are the challenges faced by Indian Lime Industry and Steel Plants which are the major user of Lime?

Challenges: Availability of the High-Grade Lime stone locally for steel plants and Fuel(Pet Coke) for the merchant lime producers. Ariel distance in INDIA is 5500 Kms from North to South and 2500Kms from East to » TMT MILLS
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#### **Face to Face**

West.12 % of High-Grade Limestone reserves are located in the north east part of India basically in  India's Metallurgical Industries have a significant lime demand, totaling 10.52



Rajasthan. Major consumer of LIME i.e., Steel Plants are located in the eastern part of India. Local transportation of the High-Grade Limestone from West to East is costlier than importing the limestone from Middle East countries / Asia Pacific countries. The rising prices and limited availability of pet coke, a crucial fuel for cement plants, can lead to supply constraints and increased operational costs for the lime industry. Captive lime plants in integrated steel plants are considering waste gases from coke ovens and blast furnaces as a fuel source for lime kilns. However, impurities like tar and naphta present challenges for lime production, impacting operations and the environment.

What is the LIME DEMAND of various sectors in India presently?

16.89 MILLION MT IS THE INDIA'S LIME DEMAND BY SECTOR.

million tonnes each year.

- The Basic Oxygen
   Furnace (BOF) alone
   consumes 8.63 million
   tonnes
- The Electric Arc
   Furnace (EAF) uses
   1.40 million tonnes,
- non-ferrous metals like Aluminum, Copper, and Zinc require 0.36, 0.10, and 0.03 million tonnes respectively.

What are the prospects which are going to shape the future of Lime Industry in India?

#### Steel Industry's Robust Growth:

India's steel industry is projected to more than double its production, from 120-130 MTPA to 300 MTPA by 2030, creating a growing demand for lime and expanding opportunities for the lime industry.

AAC Block Market's Promising Potential: The AAC block market is predicted to grow at a CAGR of 14.3% from 2020 to 2027, resulting in a volume of 11,095,000 cubic meters. Since AAC blocks use lime as a primary ingredient, lime producers have a valuable opportunity to enter a rapidly expanding market.

#### Environmental Norms Boosting Lime Usage in FGD:

Environmental regulations are driving industries to adopt cleaner technologies, including Flue Gas Desulfurization (FGD), where lime is used to reduce sulfur dioxide emissions. The usage of lime in FGD processes is expected to increase due to the emphasis on environmental compliance.

How do you see the future of this industry, especially in the light of emerging concepts like Industry 4.0 and Green Steelmaking?

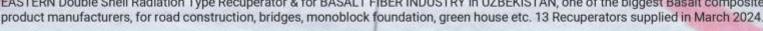
Energy-Efficient Innovations:

The lime industry is moving



towards energy-efficient processes to reduce operational costs and environmental impact. This is being achieved through the development of new technologies and equipment that optimize energy consumption during









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production, leading to a more sustainable industry.

#### **Waste Reduction** Techniques:

The lime industry is adopting advanced techniques to minimize waste and reduce ecological impact.

Sustainable Lime Production:

The lime industry is adopting eco-friendly techniques to produce lime, such as using alternative fuels, recycling, and circular economy principles to promote sustainability

#### Automation and Digitalization:

The Lime industry is implementing automation and digitalization to improve production efficiency. Automated systems ensure consistent product quality and resource optimization, while digital monitoring systems provide real-time insights for data-driven decision-making and process optimization.

#### What support does this industry need from the policy makers?

Reduction in Import Duties on import of High-Grade Limestone. Import duties should be levied on Quick lime imported from Middle East, Asia Pacific countries. Allotment of High-Grade Limestone Mines to the merchant Lime Producers. There should be separate category for the rarely available highgradelimestone in India and the same shall be only allotted to the merchant Lime Producers.





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# Tata Steel: Sustainability Champion for the 7th consecutive year



Tata Steel has been recognised as a Steel Sustainability Champion 2024 by world steel for the seventh consecutive year for its commitment and action to sustainable development and adherence to worldclass standards. Tata Steel has been a champion every year since the programme's launch in 2018. The award acknowledges Tata Steel's efforts to maintain its leadership as a world-class steel producer that is fully dedicated to the principles of sustainability.

Tata Steel is among 11 steel-producing companies that have been named 2024 Steel Sustainability Champions at world steel's April Special General Meeting (SGM) of the Board of Members.

T. V. Narendran, Chief Executive Officer & Managing Director, Tata Steel,said: "We are honoured to be recognised once again as a Steel Sustainability Champion by the World Steel Association. This acknowledgment underscores Tata Steel's commitment to sustainability across all facets of its operations. We remain dedicated to driving positive change within the steel industry and beyond, as we continue to prioritise environmental stewardship, social responsibility, and sound governance practices."

To qualify as a
Sustainability Champion,
companies must meet
stringent criteria. This
includes signing the
worldsteel Sustainability
Charter and committing to
principles emphasising
environmental stewardship,
social responsibility, and
governance excellence.

They are then evaluated based on the data provided on sustainability indicators like material efficiency, environmental management systems, lost time injury frequency rate, employee training, investment in new

processes and products, and economic value distributed. In addition, the companies provide Life Cycle Inventory (LCI) data to worldsteel's data collection programme which covers more than 60% of the company's crude steel production data and is less than 5 years old.

Tata Steel is a founder participant in worldsteel's Climate Action programme and has been recognised as an accredited Climate Action member ever since. It has developed sector-leading expertise in life cycle assessment (LCA) - a tool that enables it to understand the CO2 impacts of products in holistic terms, taking account of emissions from raw material extraction, through production and use of finished products such as buildings - all the way to the end of life. Tata Steel has a long, unbroken record of annual disclosure to CDP. Its most recent disclosure in 2023 secured a rating of A- in climate disclosure.



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#### 'Future of Auto Industry in India'

The Asian Metallurgy Show, originally a physical exhibition since 1997, transitioned to a digital platform in 2021 due to Covid. The virtual Steel n Metal Expo held from 18<sup>th</sup> to 31<sup>st</sup> December, 2023, featured online stands and webinars covering topics like digitalization, commodity trading, green steel production, role of zinc, sustainability. A notable webinar titled 'Future of Auto Industry in India'.



The expert panel featured Sanjiv Mantri, Ex Chief Engineer and Consultant, (PVBU) Tata Motors Ltd Sanjay Nibandhe, Dean Innovation & Entrepreneur and C.H.Sharma, Steel Plant Consultant. This webinar was hosted by Mr. Udayan Pathak, Ex Head, World Class Quality, ERC Tata Motors.

**Udayan Pathak -** The Indian automotive industry is undergoing significant changes driven by both



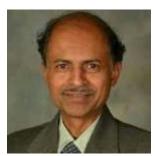
**Udayan Pathak** Ex Head, World Class Quality, ERC Tata Motors.

government mandates and voluntary decisions..
Additionally, environmental commitments have led to tighter emission regulations, increasing the demand for steel and other metals in vehicles. These changes prompt a discussion on current and upcoming regulations in the automotive sector.



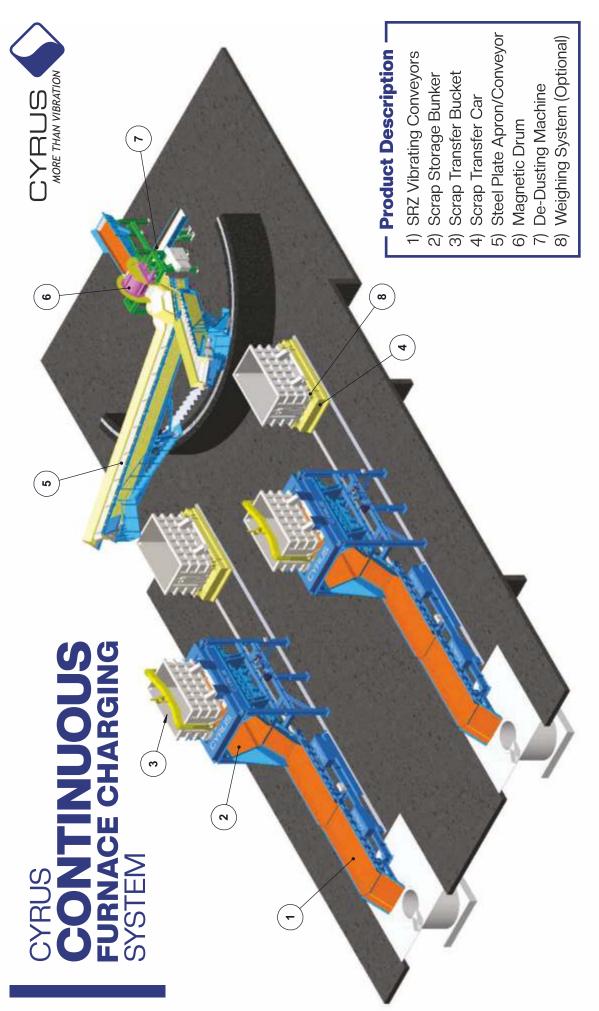
Sanjay Nibandhe
Dean Innovation & Entrepreneur
Sanjay Nibhande - As the
automotive industry expands
in India, understanding
safety regulations like BN
Cap becomes crucial. These
regulations aim to protect
occupants and pedestrians

in accidents. Alongside seat belt enforcement, newer regulations focus on minimizing injuries and enhancing vehicle safety in various collision scenarios like frontal, side, and rear impacts. Vehicle construction now emphasizes energy absorption and protection devices like airbags to mitigate risks and reduce occupant injuries. OEMs face challenges in meeting safety standards while ensuring minimal deformation and injury to occupants. Further discussion on these topics will aid in advancing safety measures in the automotive sector.



**Sanjiv Mantri** Ex Chief Engineer and Consultant, (PVBU) Tata Motors Ltd

Sanjiv Mantri - Ensuring safety in vehicles involves complex engineering to withstand various crash scenarios. From seat belts to airbags, each component must respond within milliseconds to minimize injury. Materials like



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#### **Analysis**

steel must absorb energy efficiently during impacts while maintaining structural integrity. Design considerations include crash member placement and deformation patterns. As vehicle features increase and weight becomes a concern for fuel efficiency, engineers face challenges in balancing safety, weight reduction, and customer demands.

Udayan Pathak - The challenges faced by the automotive industry, such as meeting safety standards while reducing weight for fuel efficiency, have created opportunities for the steel industry, especially in producing special steels. These contradictory requirements present opportunities for steel mills and special steel manufacturers to support OEMs in meeting regulatory standards. Both the Indian and global automotive industries are evolving to address these demands, and the steel industry plays a crucial role in providing solutions to meet legal and regulatory frameworks while ensuring vehicle safety and performance.

C.H.Sharma - Over the



C.H.Sharma Steel Plant Consultant

past five decades in the steel industry, I've witnessed a significant shift towards quality consciousness, both in manufacturing and usage. In the mid-eighties, advancements in refining processes led to a realization of the stringent requirements set by international standards, particularly those from Japan. Over the last 20 years, the steel industry has successfully met these challenges, gaining approval from global automotive companies for their highquality steel products. Currently, there are around 12 to 14 players in the steel industry capable of manufacturing top-notch products, with others rapidly catching up. Meeting demands for high-strength and specialized steel requires meticulous control over trace elements, gases, and ingredients, which the industry now excels at. With

dedicated R&D and technical expertise, steelmakers can fulfill the evolving needs of the automotive sector, ensuring a steady supply of quality steel for various applications.

Sanjay Nibandhe - Last month, in 2023, Indian auto sales totaled around 800.000 vehicles, significantly lower than the US sales of 4.8 million vehicles. Passenger car sales exceeded 64,000 units. The



shift towards zero-emission vehicles is gaining momentum, with Europe aiming for zero emissions by 2030 and India likely targeting 2040 or 2050. Safety concerns regarding vehicle fires, particularly in scooters and cars, highlight the need for stringent regulations. Issues such as outdated electrical systems and inadequate insulation in cables must be addressed, along with crash safety norms and battery mounting procedures. Startups entering the market must meet these safety standards. The disposal of lithium batteries poses environmental risks, emphasizing the importance of end-of-life management. Regulatory measures aim to ensure the safety and reliability of vehicles on the road.

Udayan Pathak - As the automotive industry transitions towards more electronic control systems, there is a growing need for materials that









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#### **Analysis**

can mitigate these risks, such as fire-resistant steels and coatings that attenuate electromagnetic voltage. This presents an opportunity for the steel industry to innovate and provide solutions to enhance the safety and reliability of electric vehicles.

Sanjiv Mantri - The discussion delves into the multifaceted challenges and considerations surrounding electric vehicles (EVs), particularly regarding battery safety, structural integrity, and material requirements. Protecting the battery, akin to safeguarding the heart of a vehicle, involves innovative solutions like using the battery as a structural element and reinforcing the vehicle body with lightweight yet strong materials. However, the transition to EVs presents conflicting demands: the need for lightweight structures clashes with the requirement for highstrength materials to meet crash safety standards. Manufacturing challenges arise in shaping and joining these advanced materials. Additionally, advancements in vehicle safety, including child occupant protection and the integration of multiple airbags, introduce further complexities in design and packaging. These challenges underscore the intricate balance between technological innovation, safety, and material science in the automotive industry's transition to electric mobility.

C.H.Sharma- The penetration of electric vehicles (EVs) in the market has been slower than anticipated, with only around 5.5% of four-wheelers being EVs. However, the overall volume of steel usage is still increasing, driven by other industries like agriculture machinery. The challenge lies in adapting to highstrength steel requirements, particularly in welding applications. Specialized welding electrodes could be developed to address this



need. Additionally, concerns arise regarding the lengthy charging times of EV batteries, which can take up to 7-8 hours. This may hinder the popularity of EVs due to the inconvenience compared to quick refueling times for traditional vehicles..

C.H.Sharma - Special steel industries are actively working to reduce pollution by transitioning to solar and electric power. Many plants are signing agreements for renewable energy, leading to significant cost savings and environmental benefits. For instance, one plant has secured 110 million units of solar power, saving up to 4% of production costs. This trend is spreading, with other plants also adopting solar power, resulting in substantial emissions reductions. Additionally.

there's a gradual shift towards more sustainable technologies, such as moving from blast furnaces to arc furnaces, further contributing to pollution control efforts.

C.H.Sharma - Currently, steel plants with electric arc furnaces (EAF) are operating at reduced capacity due to narrow profit margins. Cost reduction of Rs. 5000 from various sources could potentially allow them to operate at full capacity. However, plants using blast furnace route have a cost advantage due to cheaper hot metal. Despite this, pollution concerns and government scrapping policies may impact their operations in the long run. Additionally, the scarcity of scrap due to export restrictions imposed by 60 countries further complicates the situation for EAF plants.

Udayan Pathak - The government's vehicle scrappage policy is expected to generate around 3.5 million tons of steel scrap and 0.2 million tons of aluminum scrap annually for the next three years. This indigenous scrap will significantly reduce the need for importing scrap, which costs approximately \$10 million annually. With local scrap availability increasing, costs of steel and aluminum production are expected to decrease, providing substantial savings.



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## **RINL Soars to New Heights**

RINL during FY 2023-24 on the marketing front, registered a sale of 7,30,000 tons of Wire Rod Coils (WRC) ( a growth of 43% In order to improve customer satisfaction and also to enhance last mile connectivity, RINL has delivered around 90,000 tons



over corresponding year, last year-CPLY) and 5,08,000 tons of Structurals( a growth of 11% CPLY) which are the respective Best Ever sales for any Financial year, since inception.

Similarly, during 2023-24 FY, Value Added Steel (VAS) sales of 13,24,000 tons is the Best Ever sales (Value Added Steel-VAS) for any Financial year, since inception" which is 31% of domestic sale and a growth of 37% growth over CPLY, respectively.

Inspite of sluggish market, non-availability and high prices of raw materials, RINL registered a sales turnover of Rs.23,129 Crs during 2023-24 FY registering a growth of 2% over corresponding period last year (CPLY 2022-23 FY).

of steel on "door-delivery basis" during 2023-24 FY as compared to 15,000 tons during CPLY-2022-23 FY, registering a significant "6 CPLY) which includes sale of 7,80,000 tons of Rounds (10% growth over CPLY).

Mr. Atul Bhatt, Chairman-cum-Managing Director of RINL, commended the perseverance, commitment, and dedication of the entire RINL workforce for their outstanding performance during the 2023-24 fiscal year. He expressed his gratitude to all employees for their tireless efforts in achieving these remarkable milestones, reaffirming RINL's commitment to excellence and sustainable growth.

RINL remains steadfast in its mission to contribute to India's industrial development while upholding the highest standards of quality, innovation, and corporate responsibility.



fold growth".

In addition to the above, during 2023-24 FY, RINL has registered an impressive sale of 43,12,000 tons of Saleable steel( 15% growth over



# Unlocking potential: Bio Fuel substitution in Net Zero Journey

To drive the path towards net-zero emissions, it is crucial to take advantage on the potential of biofuel substitution, especially in industries such as steel manufacturing. The "green steel" movement's global advancement represents a broad movement away from reliance on fossil fuels and toward the development of a low-carbon economy. This change basically involves redefining how energy resources are used, with a particular emphasis on closely examining the use of fossil fuels in production processes that result in CO2 emissions. As a result, the steel sector is actively looking into ways to switch from using conventional fossil fuels to more environmentally friendly energy sources.

The "National Policy on Biofuels" was first presented by India's Ministry of Petroleum and Natural Gas in 2018, and it was later amended in June 2022. Through encouraging domestic biofuel production, the policy seeks to reduce the import of petroleum products. The policy is in line with the Prime Minister's objective of making India "energy independent" by 2047 and advances the goals of Atmanirbhar Bharat by permitting a wider variety of feedstocks to be used in the production of biofuels. By lowering reliance on the

import of fossil fuels, the government is placing a higher priority on achieving energy security. The demand for alternative fuels that offer superior environmental benefits while remaining economically competitive with fossil fuels has been fueled by concerns about reliance on imports for fuel needs as well as environmental pollution issues. This highlights how crucial biofuels are to India's energy mix strategically. Biofuels can be produced from feedstock sources such as municipal solid waste (MSW), agricultural and



Lead Author & Project Leader: V.K Bindlish (Unit Head & Sr. VP-. Jindal Stainless Limited)

environmental effects of burning fossil fuels, handle waste management issues in accordance with the Swachh Bharat Abhiyan, and advance the "Made in India" campaign.

Jindal Stainless Limited (JSL) Hisar, made the significant progress in integrating biofuels. By replacing 30% of liquid fossil fuels with biofuels at the Hot Rolling Mills, JSL has not only achieved cost efficiencies but also significantly reduced carbon emissions, advancing towards net-zero emissions. Annual potential reduction from bio LDO replacement will be 17400 tCO2reduction. Furthermore, JSL's successful. transition from fossil fuel used in boiler to biofuel, while maintaining process efficiency, underscores its commitment to decarbonisation. Bio-LDO presents a better alternative to conventional fossil fuel like LDO due to its competitive calorific value.

Analytical Comparison of Bio LDO Vs Conventional LDO. The calorific value of bio-LDO, measured in kilocalories per kilogram (Kcal/kg), holds significant importance. Bio-LDO boasts a calorific value of 10500 Kcal/kg, indicating its promise as a high-energy alternative. This value is comparable to the conventional fossil fuel LDO utilized in the process, which has an energy content of 10379 Kcal/kg.



forest residues. Using these resources, the government hopes to lower the amount of crude oil imported, save foreign exchange, lessen the



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#### **View Point**

Properties	Bio LDO Results	Conventional LDO Results
Kinematics Viscosity @ 40 deg. mm2/s	11	6.13
Specific Gravity @ 40 deg.	0.91	0.89
Calorific Value (Kcal/kg)	10500	10379
Water and Sediment	0.30%	0.05
Ash content	0.06	0.01
Sulphur wt. %	0.28	0.98
Pour Point	4	3

Bio LDO Vs Conventional LDO (Results are as per supplier's test report)

Low sulphur content leads to reduced sulphur dioxide (SO2) emissions during combustion, low sulphur content also promotes better air quality and human health. It is compatible with sustainable and green projects, biofuel is a desirable choice for businesses which looking to lessen their environmental effect and encourage corporate social responsibility.

Low Carbon Footprint: Bio-Fuel is derived from biomass sources, which absorb carbon dioxide (CO2) during their growth. Biofuels utilization has the potential to reduce some undesirable environmental impacts of fossil fuel production and use. Carbon released during combustion is offset by the carbon absorbed during the growth of the resources used in the production.

- Benefits:
  - Reduced greenhouse gas emissions lead to a smaller carbon footprint.
  - Enhanced environmental performance is in line with sustainability goals

- Appealing to stakeholders, customers and investors who value sustainability.
- Attracts environmentally conscious customers and investors, enhancing brand loyalty.
- Proactive adoption of sustainable practices mitigates regulatory compliance risks.

Ensures alignment with evolving environmental regulations, minimizing operational disruptions The JSL ESG Team elaborates on JSL's ongoing trial of substituting coke with bio-coal at the Steel Melting Shop, demonstrating the company's dedication to enhancing sustainability efforts. As part of this commitment, JSL has set a target to achieve net-zero emissions by 2050 and aims to maximize biofuel utilization at the Hisar Plant, subject to periodic review, further solidifying its commitment to sustainable practices.

According to projections by the International Energy

Agency (IEA), the demand for biofuels is expected to surge over the next five years, with an increase of 38 billion liters, representing a nearly 30% rise from the previous five-year period. By 2028, total biofuel demand is predicted to increase by 23%, reaching 200 billion liters. This increase in demand, particularly from emerging economies like Brazil, Indonesia, and India, underscores the growing recognition of biofuels as a viable energy alternative. India, with its robust biofuel policies, increasing demand for transport fuels, and abundant feedstock potential, is poised to play a significant role in this trend.

To expedite the nationwide transition towards net-zero emissions, the implementation of incentive schemes aimed at promoting low-carbon alternatives is crucial, especially within challengingto-decarbonize sectors like steel manufacturing. Such schemes, whether through financial incentives or regulatory support, are essential for incentivizing the adoption of sustainable practices and accelerating the achievement of broader environmental goals.







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#### **News Update**

#### India, China, Russia, 5 other WTO members slam EU, UK over steel duty

India and seven other members of the World Trade Organisation (WTO), including China, and Russia, have criticised a decision by the European Union (EU) to extend a safeguard measure on specific steel products after June 30, according to a report in the Economic Times (ET). In a WTO meeting, WTO members contended that the EU's safeguard duty, implemented in response to the United States' imposition of supplementary duties on certain types of steel imports from the bloc in 2018, was inconsistent with the regulations of the global trade organisation, ET reported.

WTO members, including India, also condemned comparable duties enforced by the United Kingdom (UK). ET cited a Geneva-based official as saying, "The EU said it has evidence that the steel safeguard measure continues to be necessary."

In the meeting, China and Korea said the justification for extending the measure was flawed. Brazil contended that sustainable solutions to the global issue of excess steel capacity should rely on multilateral or plurilateral cooperation rather than unilateral protectionist measures, according to ET.

#### Retaliatory measures

In 2021, India had suggested imposing additional import duties totalling Euro 292 million on specific products from the EU in response to the safeguard measures.

Subsequently, it suggested implementing additional customs duties of 15 per cent on the import of 22 products, including whisky, cheese, and diesel engine parts, from the UK, as a response to the latter's imposition of restrictions on steel products following its departure from the EU, the ET report said.

The UK will determine whether to extend the measure after June 30.

"Several members said the UK has been imposing safeguard measures against imports of steel products since it was a member of the EU and continued to do so even after Brexit," the official said.

According to ET, WTO members claimed that the UK neglected to conduct an investigation justifying the measures by WTO rules. Under the Safeguards Agreement of the global trade body, members have the authority to temporarily restrict product imports by implementing higher tariffs or other measures if their domestic industry is significantly harmed.

The measures apply to all imports, irrespective of their origin country, and are limited to four years. However, developing countries, which contribute less than 3 per cent of total exports, are exempted from these measures,

ET reported.

8-10% growth in steel demand in India likely in FY25: TV Narendran

Global steel prices, including in India, will continue to be determined by China's production (including cuts) and exports. While steel demand in India is expected to grow by at least 8-10 per cent for FY25, a few notches higher than the GDP, TV Narendran, Managing Director, Tata Steel told businesslike.

According to him, India turning net importer of steel, looks to be a temporary phenomenon, and "it would be a pity" if this continues in the long-run. However, Indian consumption story continues to be strong. Consumption is primarily infrastructure-led.

"I would expect an 8 – 10 per cent growth (for FY25) in steel demand," he said on the sidelines of All Indian Management Association's (AIMA) National Leadership Conclave.

#### Steel imports

Narendran pointed out, steel coming into the country (as imports) is "commodity grade"; and not speciality or high quality.

"Some 95 per cent of the steel coming in, can be made in India," he said adding as long as it is unfair imports, the government needs to deal with it.

India was a net importer – by less than 1 mt – for FY24. Imports was at 8.3 mt, against exports that stood at 7.5 mt.

"For one – or – two months, here and there, it is ok (to be net importer). But I think in the long run, it would be a pity if India was to remain a net importer of steel given all the iron ore we have and the production capacities that are coming up," he said.

India's steel consumption in FY24 to 136 mt up 14 per cent y-o-y, against a global demand growth of less than 2 per cent. Production of finished steel was up 12.4 per cent to 138.5 mt. The China Factor Speaking on price movements, Narendran said: "A lot (price of steel) depends on what's happening in China. China has been exporting a lot of steel and that is going to be an issue. We (steel industry) are watching, whether it would get any better or not..... And Indian prices will reflect Chinese prices; but let us wait and watch.". The production cuts, that are expected in China during the year, could help stabilise prices globally as well as in India. China, the world's biggest producer and exporter of steel, is witnessing a protracted real estate crisis that is yet to bottom out; and infrastructure demand growth is slowing with 12 debtor regions being ordered to halt projects. This

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#### **News Update**

is expected to see a 2 percent-odd demand decline there. The country exported 10 million tonnes (mt) of steel in March 2024, up by 2.8 mt m-o-m. Total steel exports in January - March were 25.8 mt, up 30.7 per cent y-o-y. In comparison, Indian steel exports for March were 0.8 mt and declined 19 per cent m-o-m. Total exports for Q4FY24 was 2.72 mt, up 35 per cent y-o-y. On the other hand, Chinese export prices (for steel coming into India) was \$559 per tonne (benchmark HRC) for early-April deliveries, as against \$609 per tonne in January, indicating the continued price pressure on Indian offerings. India's domestic steel prices crept up to \$640.80 per tonne in April, from \$630 per tonne levels a month-back. However, prices are yet to reach January highs of \$646.84 per tonne.

#### Worldsteel Short Range Outlook April 2024

The World Steel Association (worldsteel) has today released its Short Range Outlook (SRO) steel demand forecast for 2024 and 2025. worldsteel forecasts that this year demand will see a 1.7% rebound to reach 1,793 Mt. Steel demand is forecast to grow by 1.2% in 2025 to reach 1.815 Mt.

Commenting on the outlook, Dr. Martin Theuringer, Chairman of the worldsteel Economics Committee, said, "after two years of negative growth and severe market volatility since the COVID crisis in 2020, we see early signs of global steel demand settling in a growth trajectory in 2024 and 2025.

The global economy continues to show resilience despite facing several strong headwinds, the lingering impact from the pandemic and Russia's invasion of Ukraine, high inflation, high costs and falling household purchasing power, rising geopolitical uncertainties, and forceful monetary tightening. As we approach the end of this monetary tightening cycle, we observed that tighter credit conditions and higher costs have led to a sharp slowdown in housing activity in most major markets, and have hampered manufacturing sector globally. While it seems the world economy will experience a soft landing from this monetary tightening cycle, we expect to see global steel demand growth remaining weak and market volatility remaining high on lagged impact of monetary tightening, high costs and high geopolitical uncertainties." We expect that steel demand in China in 2024 will remain around the level of 2023, as real estate investments continue to decline, but the corresponding steel demand loss will be offset by growth in steel demand coming from infrastructure investments and manufacturing sectors. In 2025 we see China steel demand returning to downtrend with a 1% decline.

This projection suggests that by 2025 China's steel demand will be significantly lower than the recent peak demand year, 2020. This projection is also in line with our view that China might have reached its peak steel demand, and the country's steel demand is likely to

continue to decline in the medium-term, as China gradually moves away from a real estate and infrastructure investment dependent economic development model.

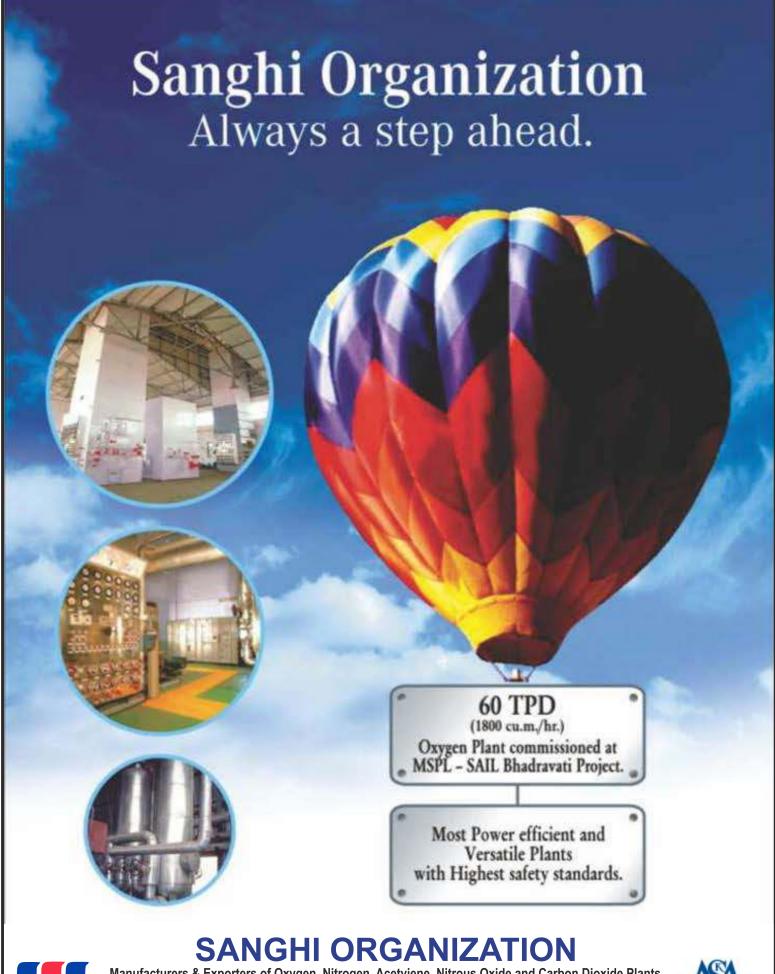
For 2023, our apparent steel use (ASU) estimate for China is based on official statistics and suggests a 3.3% drop. This represents a downwards revision of our 2023 steel demand growth rate estimate by around 5 percentage points from our previous forecast made in October 2023. Chinese steel demand in Q4 last year had indeed been weaker than what we expected back in October 2023. However, indicators of major steel using sectors suggest that the actual steel demand was better than the estimated ASU.

Our projections for the world excluding China suggest a broad-based growth in steel demand at a relatively strong level of 3.5% per annum over 2024-25.

- India has emerged as the strongest driver of steel demand growth since 2021, and our projections suggest Indian steel demand will continue to charge ahead with 8% growth in its steel demand over 2024 and 2025, driven by continued growth in all steel using sectors and especially by continued strong growth in infrastructure investments. In 2025, steel demand in India is projected to be almost 70 million tonnes higher than in 2020.
- Other emerging parts of the world such as MENA and ASEAN are expected to show accelerating growth in their steel demand over 2024-2025 after a significant slowdown over 2022-2023. We observe that mounting difficulties in the ASEAN region, such as political instability and erosion of competitiveness, might lead to a lower trend steel demand growth going forward.
- The developed world is also expected to show a strengthening recovery with 1.3% in 2024 and 2.7% in 2025, as we expect to see steel demand finally showing a meaningful pick up in the EU in 2025 and continued resilience in the US, Japan, and Korea.

In our opinion the EU (and the UK) remains the region currently facing the biggest challenges. The region and in particular its steel using sectors are challenged on a multitude of fronts – geopolitical shifts and uncertainty, high inflation, monetary tightening and partial withdrawal of fiscal support, and still high energy and commodity prices. The persistence of these downside factors resulted in a major drop in the region's steel demand in 2023 to the lowest level since the year 2000 and to substantial downward revisions of the forecast for this year. After only a technical rebound in 2024, the region's steel demand is expected to finally show a meaningful recovery with a 5.3% growth in 2025. The forecasted steel demand for the EU in 2024 is only 1.5 Mt higher than the pandemic trough in 2020.

In stark contrast with the EU, US steel demand continues to show healthy steel demand fundamentals. The





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#### **News Update**

country's steel demand is expected to quickly return to growth path in 2024 after a sharp drop led by housing market slowdown in 2023 thanks to strong investment activity, which received a boost from the Inflation Reduction Act and a gradual recovery in housing activity. Steel using sector trends

We observed that a residential construction downturn driven by high interest rates and high construction costs have dragged down steel demand across most major steel using regions.

In 2023 we saw sharp drops in housing activity in the US, China, Japan and the EU, and weakness in housing activity is expected to stretch well into 2024 in most major markets on the lagged impact of monetary tightening. A meaningful recovery in residential construction is expected to begin only from 2025 onwards. Weakness in global manufacturing activity on high costs and uncertainties, tight financing conditions and weak global demand also hampered global steel demand in 2023. Leading indicators suggest the start of a recovery in global manufacturing activity in 2024. Automotive was the notable exception to overall weakness in manufacturing, as the sector finally showed the long-awaited strong recovery in 2023 on pent-up demand and easing supply chain constraints. Following a year of strong double-digit growth in all major auto producing countries, we expect to see the sector showing weak growth at best in 2024 in most of them.

Strong investment activity in manufacturing facilities and public infrastructure have underpinned global steel demand in 2023. Investment in manufacturing facilities is driven by major economies' ambition to develop strategic sectors and ensure supply security for strategic components and materials against a backdrop of increasing geopolitical tensions. We believe that the green transition of the world economy, which requires an economic transformation of unprecedented magnitude and scope, is one of the major factors behind the strength in public infrastructure investments. For example, a recent Economics Committee study estimated that global steel demand for new wind energy installations will triple by 2030 to around 30 Mt when compared with early 2020s. While the share of steel demand for wind energy installations will remain relatively low in total global demand, it may give quite a noticeable support to overall steel demand in certain regions such as Europe. We find it also important to note that public infrastructure investments aiming to reinforce infrastructure against rising climate change risks and reconstruction of areas hit by natural disasters were major factors supporting steel demand in some major steel using countries in 2023 (e.g. Japan, China, Korea, Turkey).

We expect to see continued strength in investments in public infrastructure and manufacturing facilities. However, we also observe that high construction costs and labour shortages emerge as major constraints for many major economies, and this might constrain further growth in public infrastructure and manufacturing facility investments in the short-term.

#### Risks

We observe that risks have moderated since our last update in October 2023 and are balanced. On the upside, we believe that a faster than expected disinflation accompanied by further monetary policy easing could provide a significant boost to steel using sectors, particularly housing construction. We also believe that an acceleration in global decarbonisation efforts or in efforts to strengthen public infrastructure against rising climate change risks are significant positive risks that can support global steel demand going forward. On the downside, we observe that further escalation in geopolitical tensions, inflationary pressures proving more persistent than expected, and high and rising public debt levels triggering fiscal consolidation in major economies are significant risks that certainly have the potential to slowdown the ongoing economic recovery or even derail

#### POSCO Named World Steel Association's Sustainability Champion for Third Consecutive Year

POSCO was selected as the Sustainability Champion for the third consecutive year at the semi-annual member meeting of the World Steel Association, which was held in London, UK, on April 9 (local time).

The World Steel Association has been awarding the title of Sustainability Champion since 2018 to member companies leading the steel industry in carbon neutrality and ESG initiatives. This year, 11 companies achieved this distinction, with POSCO earning the honor three times in a row since its first award in 2022.

To be named a Sustainability Champion, companies must fulfill four critical criteria: signatory to the Sustainable Development Charter, finalist in the Steelie Awards or the Safety & Health Recognition, publication of a sustainability report, and submission of sustainability data including Life Cycle Inventory (LCI) emissions data for materials and processes. Companies that meet these requirements are recognized as exemplary leaders in global ESG management.

In addition to meeting all four conditions, POSCO was recognized for its low-carbon transition efforts, including the introduction of electric arc furnaces and investments in Hydrogen Reduction Ironmaking Technology (HyREX), as well as new initiatives such as the establishment of a group safety council and a supply chain management council. These achievements have solidified POSCO's status as a Sustainability Champion for the third consecutive year.

Furthermore, POSCO has been ranked as the most competitive steelmaker in the world by World Steel Dynamics for 14 consecutive years and continues to spearhead the global steel industry's transition to carbon neutrality with innovations like its proprietary HyREX technology and the application of low-carbon bridge technologies.





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#### Global steel output declined by 4.3% over the year

Global steel production in March 2024 fell by 4.3% compared to the same month in 2023 – to 161.2 million tons. The figure increased by 8.3% compared to February. This is evidenced by the global ranking of 71 steel-producing countries by the World Steel Association. Total steel production in the CIS+Ukraine increased by 1.5% over the month compared to March 2023 and by 16.4% m/m – to 7.8 million tons, including 15.8% y/y and 14.9% m/m – to 611 thousand tons in Ukraine. In January-March 2024, global steel production increased by 0.5% compared to the same period in 2023 – to 469.1 million tons. In the CIS+Ukraine region, the figure increased by 1.6% y/y – to 21.8 million tons.

Crude steel production by region

Africa produced 1.9 Mt in March 2024, up 1.1% on March 2023. Asia and Oceania produced 118.3 Mt, down 5.8%. The EU (27) produced 11.6 Mt, down 4.3%. Europe, Other produced 3.9 Mt, up 11.0%. The Middle East produced 4.8 Mt, up 4.0%. North America produced 9.5 Mt, down 1.4%. Russia & other CIS + Ukraine produced 7.8 Mt, up 1.5%. South America produced 3.5 Mt, down 0.2%.

In particular, Ukraine increased steel production by 36.6% y/y over 3 months – to 1.69 million tons. The top ten steel-producing countries in March, according to World Steel, were:

The 71 countries included in this table accounted for approximately 98% of total world crude steel production in 2023

Regions and countries covered by the table:

- Africa: Algeria, Egypt, Libya, Morocco, South Africa, Tunisia
- Asia and Oceania: Australia, China, India, Japan, Mongolia, New Zealand, Pakistan, South Korea, Taiwan (China), Thailand, Viet Nam
- European Union (27): Austria, Belgium, Bulgaria, Croatia, Czechia, Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden
- Europe, Other: Macedonia, Norway, Serbia, Türkiye, United Kingdom
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- South America: Argentina, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela

## Arcelormittal Nippon Steel India in talks for \$1 bn loan to fund growth

Arcelormittal Nippon Steel (AM/NS) India, a joint venture between two of the world's leading steel makers, is in talks with banks to raise about Rs 8,500 crore (\$1 billion), according to people familiar with the matter, in what could be the biggest local-currency loan this year to fund the firm's expansion.

At least three lenders including State Bank of India, ICICI Bank, and Axis Bank would be participating in the syndicated deal, with proceeds to be used for capital expenditure, said the people who asked not to be identified for discussing private information.

SBI, India's top bank, could lend more than half of the loan, which may carry a tenor longer than five years and be priced against a local interest rate benchmark, they said, adding that details of the lending facility are not finalised and may change.

If the deal materialises, it would be the country's largest rupee-denominated loan in 2024 so far, Bloomberg-compiled data show. India's fourth-biggest manufacturer of flat steel — used in everything from consumer goods to cars — is seeking to ramp up capacity as a widely-anticipated reelection by Prime Minister Narendra Modi may spur infrastructure spending in the world's most-populated nation.

ArcelorMittal Nippon Steel India, State Bank of India, ICICI Bank and Axis Bank did not immediately reply to e-mailed requests seeking comment.

The steel firm had earlier held loan negotiations with a few other lenders but they couldn't agree on the cost of funding, said the people.

The company is a joint venture between major steelmakers ArcelorMittal South Africa Ltd. and Japan's Nippon Steel Corp. It's India's fourth-biggest flat steel producer with an annual capacity of 8.8 metric tons as of March 2023, according to Crisil Ratings, a local credit risk assessor.

Building and construction makes up 39% of India's total steel demand, with infrastructure at 27%, engineering and packaging at 21% and automotive at 12%, respectively, a Bloomberg Intelligence analysis shows.





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## Ovako and FNsteel partner on low-carbon wire rod production

Ovako and FNsteel has signed a major partnership, starting in 2025, to enhance Europe's wire rod production with a focus on reducing carbon intensity.

The partnership will leverage Ovako's manufacturing processes at its Smedjebacken mill, and will see the mill managing the production flow of the low carbon footprint steel raw material used by FNsteel to manufacture premium wire rod through the company's processing facility. The contract will last for a minimum of two years, commencing in 2025.

"After an extensive period of joint testing and quality assurance measures, we are confident that Smedjebacken is well-equipped to supply FNsteel with substantial volumes of the highest quality", said Nicholas Källsäter, president, the business unit SmeBox. "Together, FNSteel and Ovako Smedjebacken are well positioned to deliver bespoke processed products with leading CO<sub>2</sub>-performance to the market", Nicholas concluded.

Marcus Hedblom, president and CEO of Ovako, stated: "This collaboration is not just about producing steel. It's about reshaping our industry's future. FNsteel's leadership in driving this change is remarkable, and together, we are setting the course for a more sustainable steel production landscape."

FNsteel's managing director, Matthijs van der Schoot, echoed this sentiment, added: "Our commitment to sustainability is unwavering. This partnership with Ovako is an exciting milestone on our journey, which will allow us to produce low-embodied carbon wire rod products from our processing facility. FNsteel is proud to take this step towards a more sustainable future."

# ArcelorMittal and Polmotors partner to lower automotive supply chain emissions

ArcelorMittal Europe – Flat Products and Polmotors, supplier to the automotive industry, have signed a memorandum of understanding (MOU) that is focused on reducing CO2 emissions in the supply chain as well as using XCarb® solutions.

The MOU between ArcelorMittal Europe – Flat Products and Polmotors strengthens the longstanding partnership between the two companies, as well as broadening the scope of the partnership by creating a long-term supply relationship. With this commitment to broadening the use of XCarb® solutions, ArcelorMittal's low carbonemissions steel, ArcelorMittal and Polmotors are working on a common goal: to reduce the environmental impact of steel used in the automotive supply chain.

The MOU focuses on the two companies exploring ways of reducing scope 3 emissions, as well as increasing and testing the use of recycled steel in low-carbon emissions products. It also commits both companies to increasing

the proportion of XCarb® products used in the supply chain

"It is thanks to the collaboration with our customers that we will achieve our goal of reducing CO2 emissions within Europe by 35% by 2030, and reaching net-zero by 2050." Paul Brettnacher – CMO automotive, packaging and electrical steels, ArcelorMittal Europe – Flat Products

Paul Brettnacher, CMO automotive, packaging and electrical steels, ArcelorMittal Europe, Flat Products, said: "This collaboration further reinforces our common approach to sustainability projects. It is thanks to the collaboration with our customers that we will achieve our goal of reducing CO<sub>2</sub> emissions within Europe by 35% by 2030, and reaching net-zero by 2050. ArcelorMittal Europe – Flat Products will support Polmotors to be a decarbonization leader in the automotive industry".

"This commitment is an important step towards achieving this objective: the mission of Polmotors is to create products that are lighter, safer and which have a reduced environmental impact, with the support of ArcelorMittal." Maciej Grabos - vice president of Polmotors

Maciej Grabos, vice president of Polmotors, added: "Our Group, as a partner to the automotive industry leaders, is playing an important role in the development of products and technologies for the creation of body structures for modern vehicles. Our objective is to be a pioneer in the generation, industrialization, and assembly of high-tech steel products, in order to provide customers with tailor-made services and solutions and to become their point of reference in terms of product excellence. This commitment is an important step towards achieving this objective: the mission of Polmotors is to create products that are lighter, safer and which have a reduced environmental impact, with the support of ArcelorMittal."ranter secures order to supply DRI plant

# Heat exchanger supplier Tranter has secured an order for a direct reduced iron (DRI) plant set to be constructed in Germany.

The DRI plant, says Tranter, will reduce the carbon footprint of a traditional steel plant significantly by using green hydrogen and carbon capture.

Tranter's plate and frame heat exchangers will be used in the process to capture and separate the carbon dioxide coming from the energy intense steel production process. The order is for four large plate and frame heat exchangers in stainless steel with extra hard EPDM gaskets that will be used for heat recovery in the removal process of CO<sub>2</sub> from a gas stream, carried out by absorption in a continuous process with regenerable solvents.

"The subject of effective heat exchangers is getting more and more attention in the industry. The fact that our





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Concurrent shows









#### **News Update**

products are key components for the world to reach their NetZero goals by 2030 is both encouraging for our own workers and makes us feel proud about our company and our product," said Thomas Cassirer, director, global energy segment, Tranter.

Tranter's heat exchangers will operate as lean/rich solvent interchanges and the lean solvent heat exchanger is part of the amine preparation before and after the carbon dioxide absorption.

"Tranter's vast experience in amine applications and references on what special materials work well in the process was a key factor to gain the customer's trust. Tranter's local presence with our factory in Sweden and our service center in Germany was considered an added value for the end-user, making Tranter the first-choice provider for plate heat exchangers in this important project," added Fredrik Nyström, sales manager, EPC Europe.

The heat exchangers were ordered by an Italian EPC contractor in the metal and mining industry and will be manufactured in Tranter's factory in Vänersborg, Sweden.

#### Salzgitter commissions new scrap shredder

Salzgitter AG has commissioned the construction of a new shredder plant for scrap metal.

The construction of the facility on the integrated steelworks site in Salzgitter, directly adjacent to the SALCOS® plants currently under construction, will cost a total of around €30 million, and enable the processing of high-quality scrap grades. The new facility represents a further building block for the production of 'green steel' as part of SALCOS® - Salzgitter Low CO₂ Steelmaking. The partners involved in the construction of the new shredder are the Düsseldorf-based machine and plant manufacturer Lindemann GmbH and the Belgian company Lybover. Both companies will support Deutsche Erz- und Metall-Union GmbH (DEUMU), which is developing 4 SALCOS® scrap grade, during the construction of the 189 metre long and 66 metre wide facility.

Sandrina Sieverdingbeck, managing director, DEUMU, stated: "In committing this investment, our aim is to strategically realign our scrap management at the Salzgitter site. We are thereby aiming to expand our scrap recycling based on high-quality steel scrap in order to enable the future production of low CO<sub>2</sub> steel. Proceeding in this way, we are creating the conditions to ensure the Group's scrap supply in the future, both in terms of quantity and quality."

The commissioning of the new unit is timed to coincide with the start of the first stage of the SALCOS® - Salzgitter Low CO₂ Steelmaking transformation program in 2026. The conversion of steel production at the Salzgitter site is to be completed by the end of 2033.

Gunnar Groebler, chairman of the executive board of

Salzgitter AG, commented: "We know that - driven by the circular economy - the global demand for scrap is set to increase significantly. Demand for high-quality steel scrap will trend upwards, particularly due to the increasing electrification of steel routes for  $\mathrm{CO}_2$ -reduced steel worldwide. The processing of these scrap grades from old scrap will then be enabled primarily by modern shredding and sorting systems. Consequently, the new shredder is an investment in product quality and, above all, serves to secure our own requirements.

# Nippon Steel Corporation will use ENERGIRON® technology to conduct experimental operation of reduced iron with hydrogen.

Tenova, part of the Technint Group and a leading developer and provider of sustainable solutions for the green transition of the metals industry, was recently awarded a contract for an Experimental Direct Reduction plant (EDRP) operated by Nippon Steel Corporation, and entrusted by the New Energy and Industrial Technology Development Organization (NEDO). Nippon Steel Corporation is Japan's largest steelmaker and one of the world's most prominent steel producers. The plant will be installed in the Hasaki R&D Centre of Nippon Steel Corporation.

In line with the aims and objectives of NEDO's Green Innovation Fund, the facility will be used to demonstrate and test the development of direct hydrogen reduction technology for reducing low-grade iron ore with hydrogen alone and the development of technology for direct hydrogen reduction.

"With this contract, it has been confirmed once again that ENERGIRON® is the best available cutting-edge technology for DRI plants," said Stefano Maggiolino, Tenova HYL President & CEO. "We are delighted to contribute to this project and supply the very first experimental direct reduction plant fed by hydrogen in Japan".

The project is being undertaken by a consortium formed by Nippon Steel Corporation, JFE Steel Corporation, and the Japan Research and Development Centre for Metals. The DR plant, based on the ENERGIRON® Direct Reduction (DR) technology, jointly developed by Tenova and Danieli, will use hydrogen as reducing gas, although, it will retain the flexibility to use different gases in any combination or proportion. To this end, the plant will be equipped with Tenova's signature CO<sub>2</sub> capture equipment that will curb overall CO<sub>2</sub> emissions when the plant operates with mixes of gases containing carbon.



#### Danieli Corus receives an order from AMNS for a new greenfield pellet plant

Indian steel producer ArcelorMittal Nippon Steel (AMNS) has awarded Danieli Corus an order for a new greenfield pellet plant project, to be constructed at the steelmaker's Visakhapatnam site, in India.

Pelletizing plant #3 is part of the company's expansion program, which also includes the greenfield Hazira blast furnace projects that are currently under execution by Danieli Corus.

The new pellet plant will have a 504 m² reaction area (4x126 sqm) and will produce blast furnace and DR grade pellets as feedstock for production sites operated by AMNS elsewhere within the country. The scope of the project includes design, supply, and installation supervision for the major/key equipment for the green pelletizing and induration areas, as well as smart digital tools.

This will be the first pelletizing plant for Danieli Corus in India in the company's approximate four decades of business in the country. The new pelletizing plant is planned to start operation in 2027.

### SSAB to replace Luleå blast furnace with fossil-free mini mill

SSAB's Board of Directors have announced plans to build a 'state-of-the-art fossil-free mini-mill' in Luleå, Sweden, which will replace the current blast furnace-based production system when completed.

This will reduce Sweden's CO<sub>2</sub> emissions by 7% in addition to the 3% from the Oxelösund mill conversion, the steelmaker claims.

The new Luleå mill will have a capacity of 2.5 Mt/yr and consist of two electric arc furnaces, a direct strip rolling mill to produce SSABs speciality products, and a cold rolling complex to serve the mobility segment. The new mill will be supplied with a mix of fossil free sponge iron from the Hybrit demonstration plant in Gällivare and recycled scrap."The transformation of Luleå is a major step on our journey to fossil-free steel production. We will remove 7% of Sweden's carbon dioxide emissions, strengthen our competitive position and safeguard jobs with the most cost-effective and sustainable strip production in Europe," said SSAB's president and CEO Martin Lindqvist.

The total mini-mill investment is estimated to reach €4.5 billion including contingencies. The plan is to fund the investment with own cash flows and within SSAB's financial targets.

"Together with our partner LKAB we are committing to eliminate the  $\mathrm{CO}_2$  emissions from our value chain and establish the new benchmark technology for a fossil-free future. In the process we are also safeguarding Nordic industrial competitiveness for decades to come, and supporting the thousands of customers that rely on quality steel from our value chain," Martin Lindqvist concluded.

**US Steel signs carbon capture** agreement with CarbonFre"US Steel is setting a precedent for how manufacturers can and must proactively manage their carbon emissions, and CarbonFree is honoured to play a role in this legacy," said Martin Keighley, CEO of CarbonFree. "At CarbonFree, we are pioneering profitable carbon capture utilization through disruptive specialty chemical manufacturing using waste carbon dioxide as a primary feedstock. As carbon capture continues to be recognized as an indispensable solution on the path to carbon neutrality for carbon-intensive industries, we look forward to helping US Steel achieve its decarbonization goals while providing economic and environmental benefits to the city of Gary and state of Indiana."

In addition to capturing carbon dioxide, CarbonFree will use slag produced by the blast furnace operation as part of the calcium carbonate production process.

"Innovating to capture carbon at an integrated mill is the latest example of how steel is enabling a more sustainable future," said Scott Buckiso, senior vice president and chief manufacturing officer, US Steel. "Moreover, US Steel has a history of 'firsts' that we're confidently building on. Using SkyCycle technology for the first project of its kind in North America should benefit the community for generations to come."

# US Steel and CarbonFree, supplier of carbon capture technology, have signed a definitive agreement to capture carbon emissions generated from the North American steelmaker's Gary Works blast furnaces in a first-of-its-kind project.

The project will use CarbonFree's SkyCycle™ technology to capture and mineralize up to 50kt of carbon dioxide per year, equivalent to emissions produced by nearly 12,000 passenger cars annually.

Construction on the SkyCycle plant in the Gary Works facility is expected to commence later this year, with operations projected to begin in 2026. The agreement has a term of 20 years following its in-service date.

CarbonFree's patented SkyCycle solution captures carbon emissions from hard-to-abate industrial sources before they enter the atmosphere and converts them into a carbon-neutral version of calcium carbonate.



#### Domestic passenger vehicle sales rise by 11% in February - SIAM

As per the recent month data published by Society of Indian Automobile Manufacturers (SIAM) reported sharp increase in Passenger vehicle sales by 11 percent year-on-year jump in dispatches to dealers in February, as sports utility vehicles (SUVs) continued to drive demand. It was the highest-ever February dispatch by car manufacturers. Total dispatches of passenger vehicles (PVs) to dealerships stood at 370,786 units in February, 10.8 per cent higher than 334,790 units sent in February last year, data from the Society of Indian Automobile Manufacturers (SIAM) revealed.

Three-wheeler sales in February were at 54,584 units, up 8.3 percent. Two-wheelers continued their growth path selling 15,20,761 units in February, which was a sharp 34.6 percent jump. But the sales of commercial vehicles (CVs) remained muted. It saw a 0.7% decline in the wholesale volumes in February.

Vinod Aggarwal, President, SIAM said, "Passenger vehicles, two-wheelers, and three-wheelers have posted growth in February 2024 compared to the previous year,

while commercial vehicles have witnessed a slight degrowth. Overall robust GDP growth of the country in Q3 of 2023-24 has helped the auto sector.

The Bharat Mobility Global Expo 2024 held in February 2024, graced by the Hon'ble Prime Minister, has also created a strong positive sentiment for the consumers and therefore the industry expects the growth momentum to continue."

SUVs, meanwhile, remained the major growth driver. Mahindra and Mahindra said on Monday that its SUV sales in the domestic market jumped 40 percent in February. PV exports have grown by 20.5 percent, while two-wheeler exports have grown by 39.5 percent. Honda Motorcycle & Scooter India's (HMSI) scooter exports have more than doubled from 13,365 units in February 2023 to 28,008 units in February 2024. Hero MotoCorp's motorcycle exports have also nearly doubled to 22052 units this February from 11689 units last February.

#### **Domestic Sales: Monthly**

Category	Domestic Sales	(In Nos.)						
Sagment/Subacament	February							
Segment/Subsegment	2023	2024						
Total Passenger Vehicles <sup>3</sup>	3,34,790	3,70,786						
Three Wheelers								
Passenger Carrier	38,777	42,582						
Goods Carrier	8,711	10,013						
E-Rickshaw	2,615	1,509						
E-Cart	279	480						
Total Three Wheelers	50,382	54,584						
Two Wheelers								
Scooter/ Scooterettee	3,91,054	5,15,340						
Motorcycle/Step-Throughs	7,03,261	9,64,362						
Mopeds	35,346	41,059						
Total Two Wheelers	11,29,661	15,20,761						
Quadricycle	107	36						

<sup>&</sup>lt;sup>2</sup> BMW, Mercedes, JLR & Volvo Auto data are not available. Tata Motors Domestic Sales data included only in 'Total PV', detailed break-up is not available. However, without Tata Motors, 'Total PV' would be 2,91,928 for February 2023 and 3,19,519 for February 2024



		SIAM					
Segment wise Compar	ative Production, Domes	tic Sales & Expor	ts data for the mo	onth of February 2			
					(Numbi	er of Vehicles	
Category	Product	tion	Domestic 8	Sales	Exports		
Segment/Subsegment	Februa	iry	Februar	гу	Februar	У	
	2023	2024	2023	2024	2023	2024	
Passenger Vehicles (PVs)*						,	
Passenger Cars	1,69,626	1,51,538	1,42.201	1,15,937	25,207	31,440	
Utility Vehicles (UVs)	1,56,602	2,21,955	1.38.238	1,91,435	19,512	21.819	
Vans	11,550	13,248	11.489	12,147	140	784	
Total Passenger Vehicles (PVs)	3,37,978	3,86,741	2,91,928	3,19,519	44,859	54,043	
Three Wheelers							
Passenger Carrier	56,978	65,687	38.777	42,582	19,386	25,203	
Goods Carrier	8,191	10,797	8,711	10,013	254	638	
E-Rickshaw	2,516	754	2.615	1,509	-	-	
E-Cart	407	567	279	480	-	-	
Total Three Wheelers	68,092	77,805	50,382	54,584	19,640	25,841	
Two Wheelers							
Scooter/ Scooterettee	4,40,901	5,67,463	3,91.054	5,15,34D	33,378	47,364	
Motorcycle/Step-Throughs	8,72,062	12,19,447	7,03.261	9,64,362	2,01,097	2,80,142	
Mopeds	35,706	42,624	35,346	41,059	612	576	
Total Two Wheelers	13,48,869	18,29,534	11,29.661	15,20,761	2,35,087	3,28,082	
Quadricycle	452	331	107	36	348	456	
Grand Total	17,55,191	22,94,411	14,72,078	18,94,900	2,99,934	4,03,422	
<ul> <li>BMW Moroodes JLR Tata Motors and Volvo Auto data is not available.</li> </ul>	able .						
Spaidty of Incian Automobile Manufacturers (12/03/2024)							

		SIAM					
Summary Report: Cumula	tive Production, Domestic	Sales & Export	s data for the perio	od of April-Febru	ary 2024		
				•	_	Report	
					(Num	ber of Vehicles)	
Category	Product	tion	Sales	Exports			
Segment/Subsegment	April-Feb	ruary	April-Feb	ruary	April-Fat	ruary	
	2022-23	2022-23 2023-24		2023-24	2022-23	2023-24	
Passenger Vehicles (PVs)*							
Passenger Cars	19,72,794	17,88.659	15.79,029	13,98,836	3,72,497	3,91,631	
Utility Vehicles (UVs)	19,82,297	24,42.849	17.57,158	22,11,831	2,18,478	2,10,638	
Vans	1,28.605	1.32.929	1.25.593	1.33,538	457	7,236	
Total Passenger Vehicles (PVs)	40,81,696	43,64,437	34,61,780	37,42,205	5,91,432	6,09,505	
Three Wheelers							
Passenger Carrier	6,61.579	7.74.583	3.20.963	5.02,125	3.41,819	2,72,257	
Goods Carrier	89,553	1,04.148	86,679	99,864	4,396	3,439	
E-Rickshaw	24,641	28.737	23,936	29,595	-	-	
E-Cart	3.055	3.407	2,830	3,442	-	-	
Total Three Wheelers	7,78,828	9,10,875	4,34,408	6,35,026	3,46,215	2,75,696	
Two Wheelers							
Scooter/ Scooterettee	51.13.161	58.42.185	47.53,085	53,72,713	3,74,014	4,68,460	
Motorcycle/Step-Throughs	1,23,79,726	1,33,19,166	94,14,380	1,06,73,137	30,29,006	26,60,607	
Mopeds	3,99.946	4.44.480	4.04,753	4,40,936	3,528	2,232	
Total Two Wheelers	1,78,92,833	1,96,05,831	1,45,72,218	1,64,86,786	34,06,548	31,31,299	
Quadricycle	2,356	4,196	620	694	1,854	3,536	
Grand Total	2,27,55,713	2,48.85,339	1.84,69,026	2,08,64,711	43,46,049	40,20,036	
* BMW Mercedes, JLR, Volvo Auto data is not available and Tata	Metors data is available for April-D	ecember only					
Society of Indian Automobile Manufacturers (12/03/2024)							



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Category	a Cumpany (	vise auriinai	ry Report for t	ne month of	reuruary 202	24 8 HO CUMIL	Hauve für Apri	II-redrusty 2	124			Report
											(Number o	of Venides
Category		Prod	nction			Domes	tic Sales			Exp	orts	
Segment/Subsegment	February April-February				Febri	uary	April-Fe	bruary	Febr	uary	April-Fe	bruary
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24
Passenger Vehicles (PVs)												
FCA India Automobiles Pvt Ltd	1 000	376	15,387	8,096	917	331	11 795	4 981	630	160	4.612	4 010
Force Motors Ltd	42	142	663	1,770	60	98	877	1 582	1	-	6	3
Honda Cars India Ltd	8 535	15,990	1.06,687	1.15,566	\$.086	7,142	84 726	79 513	969	5,836	19.521	30 729
Hyundai Motor India Ltd	55 401	67,599	8.47,478	7.16,209	47.001	50,201	5,16 946	5,61,720	10,850	10,300	1.42,119	1,50 555
Isuzu Motors India PVI Ltd	FF.	97	1,971	306	63	28	557	483	-	-	355	Б
Kia Molora India PVI II di	30,309	22,723	3,29,399	2,75,944	24,600	20,2DD	2,47 728	2,24 234	7,406	1,308	79,554	50 403
Mahindra & Maninora II.d	00 976	44,198	3,30,225	4,32,636	30,355	42,401	3,20,256	4,19 246	1,408	56C	9,659	10 595
Maruti Suzuki India Ltd	1.56 438	1,74.543	17,27,981	17,86,810	1.47,487	1.60.271	14.74 107	16.07 163	16.956	25,670	2 26,115	2.55 150
MG Motor India Pvt Ltd	4 327	4,572	49,857	43,972	4.193	3.030	42 615	40 823	-	-	-2	-
Nissan Motor India Pvt Ltd	7 253	6,952	87,375	66,420	2.184	2.755	30 351	27 445	3,882	3,163	53,375	30 931
PCA Motors Pvt. Ltd	3/3	700	7,128	8,050	328	421	7.047	7 361	-	253	-	2 588
Renault India Pvt Ltd	10 102	4,898	1.11,170	43,935	3.616	4.080	73 537	7   214	1,537	88	29.471	10 429
SkodaAto India PVt Ltd	4 225	2,915	51,561	42,552	3.415	2.254	47 837	41 718	118	-	405	1.402
Lata Motors Ltd1	NA	AA .	4.09,173	4,17,241	NA	NA	4,08 087	4,24 350	NA.	NA.	1,766	1 998
Toyota Kirloskar Motor Pvt Htc	22 495	33,698	1,43,323	3,20,686	15,323	23,293	1,54 798	2,20 804	347	1,520	555	15 322
Volkswagen India Pvt I.d	5 334	7,400	62,027	₿ <sup>1</sup> ,241	3,311	0,019	37 446	09 866	755	1,686	23,905	39 576
Total Passenger Vehicles (PVs)	3,37,978	3,86,741	40,81,696	43,64,437	2,91,928	3,19,519	34,61,780	37,42,205	44,859	54,043	5,91,432	6,09,505
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Сатело	у & Сотряну	wise Summa	ary Report for	the month of	February 20:	24 and Cum	ulative for Ap	<u>rll-Fəhruary 2</u>	024				
												Report	
												of Vehicles	
Category			duction			Domestic Sales				Exports			
Segment/Subsegment		uary	April-F		Felbr			ebruary		uary	April-Fe		
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	
Three Wheelers	1												
Atul Auto Ltd	1,810	2.253	22,392	23,717	1,937	2,120	19,998	20.912	188	180	2.397	1,999	
Rajaj Auto Hd	42,749	50,547	4,05,555	5 88,043	32,849	36,331	2,65,879	4,26 055	11,588	15,155	1.72,100	1,40,700	
Continental Engines Pvt Lte	202	451	5.642	5,987	297	357	5,743	5 711	-	-	-	-	
Force Motors Ltd	350	200	2,802	3,743	-	-	-	-	196	14	2.600	3,640	
Mahindra & Mahindra Ltd	5,196	5.229	53,493	72.109	5,350	6,158	52.823	/2 310	-	60	463	453	
Plaggic Vehicles Pvt Ltd	8,137	8,818	99,465	1 02,914	5,606	7,552	75,225	91 335	(91)	1,884	23,814	11,577	
TVS Motor Company Ltd	5,568	10,000	1,59,479	1.34,385	1,043	2,086	14,740	18 703	7,781	8,548	1.44,781	1,17,321	
Total Three Wheelers	68.092	77,805	7,78,928	9,10,875	50,382	<b>54,5</b> 84	4,34,408	6,35,026	19,640	25.841	3,46,215	2,75,696	
Two Wheelers	1												
Ather Energy Pvt. Ltd	12,092	10.658	81,356	96,669	12,147	11,094	80,658	96 073	-	80	-	276	
Bajaj Auto Ltd	2,54,310	2 89,192	32.05,912	33 95.589	1.15,039	1,68,727	15,49,165	20,57,314	1.15.021	1,24,157	15 42,241	18,46,457	
Chetak Technology Hid	500	2,500	5,335	11,130	2,256	1,800	4,431	10.287					
Hero MetaCorp Ltd	3,68.653	4 41,595	47,68.044	50 86,532	3,82,017	4.45.005	46,53,063	49.61 113	12,143	20,148	1.56,140	1,69,758	
Horida Motorcycle & Scooter India Pvt Ltd	2,25,465	4 01.302	40,87,429	45 11.530	2,27,084	4,13.967	38.27,985	41,72 045	20,11	44.744	3 10,991	3,35,031	
India Kawasaki Motors Pvt Ltd	516	247	2,8/8	2.615	375	458	3,641	7 090	- 1	-	-	-	
Incla Yamaha Motor, No Ltd	56,606	79.045	7.79,833	8 49.384	39,397	56,538	5,24,973	6,36,325	15.694	21,873	2 51,428	1.99,207	
Mahindra Two Whole era I (d			72				98				•		
Okinawa Autotech Pvt. Ltd	6.166	1,094	92,650	10.139	6,726	1.244	96,273	13 557	-	-	76	-	
Piaggic Vehicles Pvt Ltd	4.824	4.341	58,139	47.559	2,800	3.041	41,155	32 008	1,216	1.028	10.632	12,891	
Royal-Enfield (Unit of Eicher Motors)	63,490	78.313	7.58,195	8 50.184	64,436	67,922	8,74,956	7,68 751	7.108	8,013	87,704	68,430	
Suzuki Motorcycle India Pro Ltd	86,054	1.00.821	5.56,178	10/24,747	52,455	83,304	6.57.687	8,34,845	18.170	14,131	1.83,100	1.95,389	
Triumph Motorcydes India Pvt Hzf	52	45	598	808	87	59	979	600					
TVS Motor Company Ltd	2,69,741	3 31.160	31,95,244	37 19,650	2,21,402	2,67,502	23,57,156	28,96 510	45,824	90,308	0.40,239	6,03,860	
Total Two Wheelers	13,48,669	18.29.534	1.78,92,833	1,96.05.831	11,29,661	15,20,761	1,45,72,218	1,64,86,786	2.35,087	3,28,082	34.06.548	31,31,289	
Quadricycle						•			,				
Bajaj Auro Itd	452	381	2,356	4.198	107	36	620	594	348	456	1,854	3,536	
Total Quadricycle	452	331	2,356	4,196	107	36	620	694	348	456	1,854	3,536	
Grand Total	17,55,191	22.94.411	2,27,55,713	2,48.85.339		18,94,900	1.84,69,026	2,08,64.711	2.99.934	4,08,422	43,46,049	40.20.036	
Socially of Indian America Manufactures (12/03/2024)													

				SIA.	W								
Segment & Company	wise Produc	tion, Domest	tic Sales & Exp	onts Report	for the month	h of Februa	ry 2024 and Cu	mulative for	April-Febr	uary 2024			
												Report III	
											(Number	of Vehicles)	
Category		Prod	uction			Domes	stic Sales		Exports				
Segment/Subsegment	February April-February			Febru	iary	April-Feb	ruary	Febr	uary	April-February			
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	
Three Wheelers													
A: Passenger Carrier													
Anii Auto I te	476	702	9.840	8,7711	415	528	7.381	6,566	184	172	2.279	1.893	
Bajaj Auto Lic	38.826	46,100	4.00.251	5.19,247	28,589	31.801	2,31,256	3.79.172	11.374	14,947	1,70,478	1.39 250	
Continental Lingines Pvt Ltc	5/2	74	1,562	955	8.3	53	1,659	919					
Force Motors Ltd	350	200	2.802	3,743	-	-	-	-	196	14	2.630	3 G40	
Mahindra 8 Mahindra Ltd	1.626	2,878	18.222	36,087	1,768	0.278	18,201	35.154		60	337	409	
Piaggio Vehicles Pvt Ltd	6,132	5,897	71.204	72,623	6.314	4,801	43.110	\$1,960	(92)	1,689	22.616	10 626	
TVS Motor Company Ltd	9,476	9,832	1.57.798	1.33,178	1.308	2.021	14,346	18.354	7.724	8,430	1,43,449	1.16 439	
Total A: Passenger Carrier	56,978	65,687	6,61,579	7,74,583	38,777	42,582	3,20,953	5,02,125	19,388	26,203	3,41,819	2,72,267	
E-Rickshaw													
Attil Auto I to	167	264	2,881	4,393	241	375	2,925	4,793					
Continental Engines Pvt Ltc	85	231	1.323	4,112	9C	189	1.342	4,010	-	-	-		
Mahindra & Mahindra Etc	2.250	259	20.437	19,732	2,284	945	19,689	20.792					
Total E-Rickshaw	2,516	764	24,641	28,737	2,615	1,509	23.936	29,595	-	-	-		
B: Goods Carrier												- 1	
Atul Auto Lte	1,060	986	8.769	8,232	1,160	967	3.647	7,856	4	8	118	106	
Bajaj Auto Ltd	3.923	4,741	35.304	48,793	3.96C	4,530	34,623	46.083	192	209	1,622	1 456	
Continental Engines Pvt Ltd	91	137	2,826	709	123	98	2,696	589	-	-	-	-	
Mahindra & Mahindra Ltd	1,020	1,844	12.912	14,933	1.141	1,722	13.204	14,812	-	-	126	44	
Piaggio Vehicles Pvt Ltd	2,005	2,921	28 261	30,291	2,292	2,651	27,115	29,375	1	304	1,198	951	
TVS Motor Company Ltd	92	168	1.981	1,187	35	45	394	349	57	118	1,332	882	
Total B: Goods Carrier	8.191	10,797	89,553	1.04,14B	8,711	10.013	86,679	99,864	254	638	4,396	3,439	
E-Cart													
Atul Auto Lte	107	301	1.102	1,822	121	250	1,045	1.697		-	-	-	
Commental Engines Pvt Ltd		19	31	211	<u> </u>	17	36	193			-	-	
Mahindra & Mahindra Ltd	300	247	1.922	1,374	157	213	1,749	1.552		-	-	-	
Total E-Cart	407	567	3,055	3,407	279	480	2,830	3,442	-	-	-		
Total Three Wheelers	68,092	77,805	7.78,628	9,10,875	50.382	54,584	4,34,408	6.35,026	19,640	25,841	3,46,215	2.75,696	

#### Statistics



	sany wise Produc						.,			,		Report II
											zNumber	of Vehicles
Category		Prod	luction			Domes	etic Sales	I		Ex	Burte	(
Segment/Subsegment	Febr		April-Fel	manu	Febru		April-Fe	bruary	Febr	February		ebruary
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	
Passenger Vehicles (PVs)												
A: Passenger Cars												1
Londa Cars India Ltd	9,245	7,709	1.00 807	75.643	6.088	3,958	79,785	49,148	854	2,326	18,878	23,654
Hyundai Motor India Ltd	30,395	29,850	3.43 639	3 35,364	24,793	16,811	2,42,439	2,09,208	5,822	8,756	99,611	1,25,284
Mahindra & Mahindra Etd	_	-					2'4		-,		_	-
Maruti Suzuki India Ltd	1.18.357	1.04.453	12.60 320	11 27,686	1,02,565	86,890	10,25,839	8,98,183	13,468	16,939	1,84,080	1,79,317
MG Motor India Pvt Ltd	-	NA.		0.052		W	-	1,914	-	-	-	-
Nissan Motor India Pvt Ltd	4.425	3.9a0	44 318	30,201		-	-	- '-	3,765	2,204	43,490	29,741
Renau Undia PvI Ltd	2,683	900	29 116	10,766	1.758	828	18,215	9.240	543	79	8,850	3,791
SkodaAuto India Pv: Ltd	1,777	916	26 165	16,437	1,446	1,028	23,500	17,885		-	-	22
Tata Motors Ltd*	N/A	N/A	1.35 198	141.704	N/A	40	1,35,177	1,41,971	NA.	NA.	150	1,354
Toyota Kirloskar Motor PVt Ltd	76	249	874	2,217	4,290	4,791	37,292	50.080	-	-	-	-
Volkswagen India Pvt Ltd	2,910	4,332	32 357	48,589	1.563	1.631	16,574	19,247	755	1,136	17,408	25,436
Total A: Passenger Cars	1.69.826	1.51.538	19.72,794	17,88,659	1,42,201	1,15,937	15,79,029	13,98,835	25,207	31,440	3,72,497	3,91,631
B: Utility Vehicles (UVs)				, ,		,	,	.,,	- ', '			.,
LCA India Automobiles Evil Etd	1,000	376	15 387	8,096	917	331	11,765	4,981	630	160	4,612	4,01H
Force Motors Eld	42	142	653	1.770	60	98	677	1,682	1	-	ŝ	3
Honda Cars India Ltd	390	8,281	5 880	42,923		3,184	4,941	30,355	115	3,610	648	7,075
Hyundai Motor India Ltd	25,036	37.749	3.03 839	3 80.845	22,508	33,390	2,74,510	3,52,512	5,028	1,544	42,508	25,271
Isuzu Motors India Pvt I td	56	97	1.971	306	66	23	657	463			355	5
Kia Motors India PvI Ltd	30,309	22,723	3.29 399	2 75,944	24,600	20,200	2,47,728	2,24.234	7,400	1,356	79,554	50,403
Mahindra & Mahindra I td	30,858	44,076	3,27,872	4 32,386	30,221	42,401	3,20,985	4,19,233	1,373	540	9,600	10,364
Merufi Suzuki Indie Ltd	26,651	59,672	3.47 123	5 29,528	33,550	61,234	3,29,075	5,83.890	3,363	10,967	41,712	68.927
MG Motor India Pvt Ltd	4,327	4 572	49 857	40,920	4,193	3,030	42,815	38,909			19	1
Nissan Motor India Pvt Ltd	2.828	3.902	43 057	36,219	2,184	2,755	30,351	27,445	117	859	9,888	6.800
PCA Motors Pvt. Ltd	373	70C	7 129	8.050	328	421	7,047	7,381		253		2,658
Renaulf India Pvf Ltd	7.439	3.918	82 054	33,169	4,858	3,252	55,322	31.974	994	10	20,591	6.638
Skoda/Juto India Pv. Ltd	2,448	2,000	25 396	26.115	1.972	1.228	24,337	23,550	118		408	1,350
Tata Molore Ltd1	AM	14.6	2.70 261	2 75,447	NA.	VA.	2,68,570	2,73.974	NA.	VA.	1,539	519
Toyota Kirloskar Motor Pyt Ltd	22,419	33,449	1.42 449	0 18,469	11.033	18,502	1.17,508	1,70,544	347	1.920	555	15,322
Volkswagen India Pvt Ltd	2.416	3.998	29.970	32,652	1,748	1,388	20,872	20.421	-	650	6,500	11.140
Total B: Utility Vehicles (UVs)	1,56,602	2,21.955	19.82.297	24.42,849	1,38,238	1,91,435	17,57,15B	22,11,831	19,512	21,819	2,18,478	2,10,638
C: Vans									.			1
Mahindra & Mahindra Ltd	. 50	9C	2 353	240	137	-	2,057	13	35	20	59	231
Maruti Suzuki India Ltd	11,430	13,216	1.20 538	1 32,599	11,352	12,147	1,19,199	1,25,120	105	764	318	6,906
Tata Motors Ltd*	NA.	N/A	3 714	90	N/A	AV.	4,340	5,405	NA.	N/A	80	30
Total C: Vans	11,550	13,248	1,25,505	1,32,929	11,489	12,147	1,25,593	1,33,536	140	784	457	7,235
Total Passenger Vehicles (PVs)	3,37,978	3.86.741	40.81,696	43,64,437	2,91,928	3,19,519	34,61,780	37,42,205	44,859	54,043	5,91,432	6,09,505

				SIA								
Segment & Compan	y wise Produc	tion, Domes	stic Sales & E	xports Report	for the mon	th of Februa	ry 2024 and C	Sumulative for	r April-Fabr	uary 2024		
												Report I
							stic Sales					of Vehicles
Category			duction						ports			
Segment/Subsegment	February			ebruary	Febr			ebruary	Febr			ebruary
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24
Two Wheelers												
A: Scooter/ Scooterettee												
Ather Energy Pvt. Ltd	12,092	10.658	81,356	96.660	12.117	11 094	80,658	96.973	-	80	-	276
Dajaj Auto Eld	2,027	14,286	29,904	1,07,127	382	10 820	28,359	1,03,780	-	-	5	74
Chetak Technology Ltd	500	2,500	5,335	11.130	2,296	1 800	4,431	19,267	-	-	-	-
Herd MoteGorp Etd	24,714	31.928	3 40.296	3,09,881	22,152	30 387	3.27,291	3,71,010	454	1.096	0 654	26,074
Honds Motorcycle & Scooter India PVt 1c	1,93.969	2.55.316	23.78,400	25,56.365	1.59,127	2.29 783	22,33,1211	23.51,557	13,365	28,008	1,73 HH4	2 15,313
India Yamaha Motor Pvt Ltd	10,380	23.600	1 92,628	2,92,216	8.186	20 774	1.69,418	2,53,714	1.212	3.932	28 735	34,081
Okinawa Autotech Pvt. I td	6,165	1,094	92,650	10,139	6,726	1 244	96,278	13,557			73	
Piaggio Vehicles Pvt Ltd	4.824	3,618	58,139	47.050	2.900	3 036	41,140	35,002	1.21G	1.232	16 632	12,455
Suzuki Motorcycle India Pvt Hd	74,081	88 452	7.27,499	8,73,033	50,486	81 460	6,39,449	8,08,219	8,958	5,080	74 078	73,961
TVS Motor Company Ltd	1,12.148	1.38.011	12 06,954	14,48.578	96,652	1.22 142	11,32,940	13.29.542	8.173	7,996	72 168	1 08,226
Total A: Scooter/ Scooterettee	4,40,901	5,67,463	51,13.161	58,42,185	3,91,054	5,15,340	47.53,085	53,72,713	33,378	47,364	3,74,014	4,68,460
B: Motorcycle/Step-Throughs												
Bajaj Auto Lid	2,52,283	2,74.906	31.76.008	32,85,462	1,17.657	1.55 107	16.20,808	19,53.551	1,15.021	1,24,157	15.42 236	13 46,383
Herd MataCarp Ltd	3,44.139	4.09.167	44 27,748	46,86.151	3.60,165	4.14 708	43,25,772	45,90,094	11,689	22,052	1,47 486	1 43,684
Honda Motorcycle & Scooter India Pvt Ltd	31,496	2,05.900	17 09.029	19,55,165	37.957	1.04 184	15.94,865	15,20.400	6.746	16,736	1.37 327	1 19,718
India Kawasaki Motors Pvt Itd	51H	247	3,848	2,615	375	458	3,641	4,090	-	-	-	-
India Yamaha Motor Pvt Ltd	46,226	55.44C	5 87,205	5,57,168	31.211	35 704	3,55,555	3,82,611	14.482	17.941	2.32 688	1 65,126
Mah ndra Two Wheelers 1d			79				95					
Piaggio Vehicles Pvt Ltd	-	423		509		5	9	6	-	396	-	436
Royal Entield (Unit of Eigher Motors)	63,490	78,313	7 58.195	8.50,154	64,436	67 922	6.74,958	7,65,751	7,108	5,013	57 704	88,430
Suzuki Motorcysie India Pvt Ltd	11,973	14,369	1 28,679	1,51,714	1.968	1 844	18,238	26,626	9.212	9.071	1.59 022	1 21,728
Triumph Motorcycles India Pvt Ltd	52	45	598	608	87	69	979	580	-	-	-	_
TVS Motor Company Ltd	1,21,887	1.80.546	15 88,344	18,26,592	\$9,404	1.04 301	8,19,463	11.26,940	36,839	81,776	7,72,543	6.95,402
Total B: Motorcycle/Step-Throughs	8,72,062	12,19,447	1,23,79,726	1,33,19,166	7,03,261	9.64.362	94,14,380	1,06,73,137	2,01,097	2,80,142	30,29,006	26,60,607
C: Mopeds	' '											
TVS Motor Company Ltd	35,706	42.624	3 99,946	4,44,480	35.346	41.059	4.04,753	4,40,936	612	576	3 528	2,232
Total C: Mopeds	35,708	42,624	3,99,946	4,44,480	35,346	41,059	4,04,753	4,40,936	812	576	3,628	2,232
Total Two Wheelers	13,48,669	18,29,534	1.78,92,833	1,96,05,831	11,29,661	15.20,761	1,45,72,218	1,64,86.786	2,35.087	3,28.082	34.06,548	31,31,296
Quadricycle					' '				' ''			,
Bajaj Auto Ltd	452	331	2,356	4.196	107	36	620	694	348	456	1 854	3,536
Total Quadricycle	452	331	2.356	4,196	107	36	620	694	348	456	1,854	3,536
Grand Total	17,55.191	22.94,411	2,27,55,713	2,48,85.339	14.72,078	18,94,900	1,84,69,026	2,08.64,711	2.99,934	4.08,422	43,46,049	
			. , ,									
Society of Indian Autorichi e Mandadurera (12/08/2021)	1											



				SIAM.										
Sub-segment & Company v	vise Producti	on, Domest	ic Sales & Exp	orts Report f	or the mont	h of February	2024 and Cur	nulative for A	ıpril-Februai	ry 20 <b>24</b>				
												Report IV		
											(Number)	of Venibles)		
Category	Production					Domes	stic Sales		Exports					
Segment/Subsegment	February April-February			Feb	ruary	April-Egl		Fehry		April-Fo				
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24		
Passenger Vehicles (PVs)														
A : Passenger Cars - Upto 5 Sests														
Micro :Seata uplo-4, Length Normally <3200 mm. Bod	y Style-Hatch	back, Engl	ne Displacema	ent Normally (	ipto 0.8 Lith	2								
MG Motor India Pvt Ltd (Cornet EV)	-	44	-	3,052	-	NA NA	-	1914	-	-	-	-		
Total Micro	-	-	-	3,052	-	-	-	1,914	-	-	-	-		
Mini :Seats upto-5, Length Normally <3600 mm, Body :	Style-Hatchba	ack, Engine	Displacemen	t Normally up	to 1.0 Litrs									
Maruti Suzuki India Eld (Alto,Spresso)	20,295	10 591	2,67,848	1 58,255	21 975	14,782	2 21,329	1,39 266	2,620	1,720	39,777	29 500		
Ronal, t India Pyt Ltd (Kwid)	2.653	980	29,110	10,755	1 758	828	18.215	9 240	543	79	6,880	2 791		
Total Mini	22,961	14,871	2.96,964	1,67.054	23,633	15,610	2,39.544	1.39,505	3,163	1,799	48,657	33,329		
Compact :Seats uptc-5, Length Normally between 360	0 - 4000 inin.	Body Style	-Sedan/Estate	r/Hatch/Notch	back, Éngin	e Displacem	ent Normally u	pto 1.4 Litro				·		
Honda Cars Inclait (Amaze,Jazz)	4 925	2,359	49,657	35,030	4 123	2,774	47 440	33.339	54	36	992	844		
Hyandai Mctar India HiJ (Aura, Grand i 10,i20 Sarura, Xcent	28,139	24.488	2,89,881	2 58,432	24 446	15,131	2.26.422	1,80 895	3 579	5,281	81,914	74 837		
Maruti Suzuki India Ltd (OEM Model# Belone Colorio, Dz.)	97,274	89 097	9,67,819	9.49,175	79 890	71,627	7 91, 197	7.58 171	9,776	14.274	1 32,149	1.09 809		
Tate Motors Ltd* (Altroz, Tiago, Tigor)	N.A	NA	1,35,198	1.41,704	N=	NA.	35,177	1.41 971	144	NA.	:50	38/		
Toyota Kirleakar Motor Pvt Ltc (Glanza)	_		-		4 223	1,581	36,491	47.973	_	-	-			
Valkewagen India IIVI Ltd (Palc)	_		874			,	753		_	-	1,095	64		
Total Compact	1,30,338	1,16,254	14.43.429	13,81,371	1,12,690	94,113	12,37,390	11.62.319	13,439	19.591	1,96,300	2,16,968		
Super Compact :Seats upto-5, Length Normally between										10,001	ijaoje va	2,10,000		
Mahindra & Mahindra Etd (Verito)	i	-	-	-	-	-	214	.		-	_	.		
Total Super Compact	_		_		l .	_	214					.		
Mid-Size: Seals upto-5, Length Normally between 4250	  - 4500 mm	Body Slyle	i Sedan/Estate/	Hatch@lotebb	ı eck Engine	i Disolaceore		lo 16 Liles						
Hones Cars ine a Ltd (City)	4.320	5 040	51,150	40,613	1 953	1,184	32.345	15.809	770	2,290	17,856	22 810		
Hyundai Mictar India I (d (Verna)	7 223	5 352	53,758	78,902	47	1,678	16 014	28 305	2 243	3,475	37,697	50 447		
Maruti Suzuki India Ltd (Ciaz)	755	1 485	24.663	20,223	792	48*	10.310	9 747	1,072	945	12,154	S 940		
Nissan Motor India Pyt Ltd (Sunny)	4,425	2 350	44.318	30.201	'02	1 70	10.010	V 1-1	3,765	2.204	43,490	29 741		
Volkawagan India Pvl Ltd (Vento,Vinus)	2,915	4 332	31,483	18,589	1 563	1.634	15.621	19.2/7	755	1,136	19,313	28 37/		
Total Mid-Size	14.674	19,249	2.05,362	2,18.528	4,366	4.974	77.490	73,108	8.606	10.050	1,27.540	1,41,312		
Executive :Seats upto-5, Length Normally between 450									0,000	10.000	1,21,940	1,41,412		
SkecaAuto India Pvt I td (Cotavia Stavia)	1.707	915	9- <b>390</b> anr∈sono 24.516	18,437	1 356	1,028	22 035	17.734				22		
Total Executive	1,707	915	24,516	16,437	1,356	1.028	22.065	17,734				22		
Premium :Sests upto-5, Length Normally between 470								17,734		-	-	22		
SkocaAuto Incia Pvt Ltd (Supero)	u - auuu min.   75	Dody 20le	- 5608 N° ESTRE 1,648	s, Engline Disj	piacement n 90	ionnally upto I	1.455	131						
						Ī.,			_	-	-			
Toyota Kirleskar Motor Pvt Lte (Camry)	75 148	249 249	874	2,217	67 157	210	591 2.20e	2 117	-		-	-		
Total Premium			2,523			210	2,326	2,248	-	-	-			
Luxury :Seats upto-5, Length Normally Over 5000 mm,	Body Style-1	edan/Esta	mes, Engline Dia	splacement N	ormally upto									
Hyundai Motor India Ltd (Other)		-	-	-		2	-	8	-		-	-		
Total Luxury						2		8						
Total Passenger Cars	1,69,828	1,51,538	19,72,794		1,42,201		15,79,029	13,96,836	25,207	31,440	3,72,497	3,91,631		
1 Only curricative data is available for Apr-Dec NAHNo. Available				<del>tOny propedible</del>	rotume of OEM	Model a reporte:	: by Marcti Suzuki	nd a Limited						

Sub-segment & Company w	ien Productiv	n Domesti	in Calaa & Eve	SIAM	or the mouth	of Eabruant	2024 and Cun	aulativa for A	usril-Eebrus	na 2024		
Sou-segment & Company w	IBE FIOUULIR	on, Donieso	о зајев а схр	инь керин к	or the month	OI FEDILIBIY	ZDZ4 BIIG CUII	ilulative for A	spin-reulua	17 2024		Report IV
				B								at Vehicles)
Category			luction		Domestic Sales					Exp		
Segmen@Subsegment	Fabru		April-Fel			February April-February			Febr		April-Fe	
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24
B: Utility Vehicles (UVs)												
B : Utility Vehicles/ Sports Utility Vehicles; 4x2 or 4x4	offroad capat	oility; Gene	rally ladder on	frame ; 2 bo	x ; 5 Scats or	more but up	ito 10 Scats.					
UVC : Length < 4000 mm & Price <20 Lakhs												
Honda Cars India Ltd (WR-V)	390		5,880				4,941		115		643	288
Hyundai Moter India Ltd (Extert/Venue)	0,411	19 120	1.18,315	1,95 520	0.997	16,515	1 10.520	1,82,107	1.021	727	7 492	11.535
Kia Motors India Pvt Ltd (Sonet)	12,495	9 237	1.12,540	1,02 //3	9.836	9,102	85,419	72,634	3.117	135	26 688	30,495
Manindra & Mahindra Etd (∃olero, Kuv100 Thar, Xuv3U0 XI	15,246	21/2/3	1.93,740	2,22 070	18,595	20,753	1.89,257	2,19,468	486	259	6 H±2	4,328
Maruli Suzuki India II.d (OFM Model # Riezza Franx, Jim	15,924	34 957	1 80,501	3,31,060	15,757	30,255	1 79,435	2,94,178	75	5,849	30 136	32,154
Nissan Motor India Pvt Etc (Magnite)	2,825	3 902	41,811	36 219	2,154	2.763	29,255	27,448	114	959	9 023	6,574
PCA Motors Pvt. Ltd (C3,EC3)	373	405	0,892	€ 097	324	294	0.798	5,702	-	7	-	2.547
Rehault India Pvt Ltd (Kigar, Triber)	7,439	3 918	82,054	33 169	7.858	3,252	ba.322	31,874	997	10	20 581	6.638
Tata Motors Ltd* (Nexon,Punch)	NA.	NA.	2,29,059	2,42,881	NA.	8.4	2 27,639	2,42,175	NA	NA.	1.530	514
Tayata Kinoskar Motor Pvt Ltd (Diban Cruiser)							22,158					
Total UYC	67,109	92.872	9.70,793	11,69,396	61,581	82,926	8,60,897	10,75,713	5.872	9,059	1,02,955	95,361
UV1 : Length 4000 to 4400 mm & Price <20 Lakhs		- 1										
Force Motors Ltd (Gurkha)	42	1	65 r	1៦	60	-	677	-	1	-	e	2
Honda Cars India Ltd (Elevate)		8 281		42 923		3,184		30,365		3,610		6,509
Hyundai Mo,cr India Etd (Creta)	12,644	16 400	1.47,492	1,50,713	10,421	15,276	1.36,345	1,46,315	0.101	292	24 857	3,547
Kia Motors India Pvt Ltd (Sollos)	10,202	7 020	1.40,505	1,06 079	8.012	6.268	90,578	92,511	3,551	560	45,022	12,358
Marufi Suzuki Incia Ltd (OEM Model # Ertige, Crand Vitara	5,608	17 225	1.31,736	1,55 381	15.655	26,521	1,94,968	2,44,808	3.357	4,065	11/38	35,579
MG Motor Inc a Pvt Ltd (Astor)	991	1.274	16,919	3 3 3 3 6	1.020	1,036	14,450	9,298	-	-	-	-
Nissan Metar India Pvl Ltd (Kicks)		- 1	1,246				1,035	-	3		65	18
PCA Maters Pv. 11d (C3 Aircross)		235	'	1 980		127	'	1,570		193		141
SkodaAuto India Pv: Ltd (Kushaq)	2,205	1 883	24,046	22 791	1.753	1,107	23,548	22,102	118	-	408	1.380
Toyota Kinoskar Motor Pvt Ltd (Mode Manufactured for th	14,190	21 092	68,646	1.91 026	3,307	6,331	19,365	48,236	3/7	1.920	510	15,320
Volkswagen India Pvt Ltd (Taigur)	2,270	2 9 1 9	28,700	30 720	1.655	1,286	19,779	18,897	-	550	6 500	11,140
Total UV1	51,152	76,333	5,57,947	7,10,204	41,913	61,163	4,73,276	6,14,100	10,478	11,136	89,102	86,920
UV2 : Length between 4400 - 4700 mm & Price <20 Lak		,	-,,	.,,	,		.,,		,,	,	,	,
Hyundai Motor India Etd (Alcazar)	2,391	1 959	34,494	29 705	1,559	1,290	24,177	19,300	906	525	10 169	9,589
Kia Motors India Pvt Ltd (Carens)	7,219	6 / 63	71,963	67 122	9,249	4,832	94,212	58,430	738	605	7703	7.522
Manindra & Mahiners, Ltd (Marazze, Scoroip, Xuvalld, Xuv./	12,612	22 803	1.33,696	2,10,326	11.625	21,648	1.31,272	1,99,768	887	251	3 548	6,038
Maruli Suzuki India II di (X16)	2,779	4 890	34,886	43 087	2.108	4,082	34 669	40,625	1	50	140	584
MG Motor Inc a Pvt Ltd (Hector)	2,330	0.043	24,941	28 051	2.558	1,826	21.470	25,648	-	-	12	
Tata Motors Ltd* (Harrior, Safati)	N.A	44	41,202	92 500	NA	NA.	40.931	31,799	44	NA	C	1
Total UV2	28,671	38,958	3.41.182	4,10,857	24.099	33,688	3,16.731	3.75,500	2,532	1.464	21,268	24.332
UV3 : Length >4700 num & Price <20 Lakhs		,	-,,	.,,	-::	,	-,,	-;. 0,000	_,		,	- 1,000
Lorde Moints Ld.( iax)		104	(4)	1.716		51		1,675				1
Isuzu Motors India Pvt Ltd (Li-Landor, V-Cross)	65		1,925	56	63		607	365		-	366	- 3
Toyota Kinoskar Motor Pyt Ltd (Innova Grystalinnova Hyd	4,927	8 970	47,879	89 110	4,171	8.481	47,490	88,280		_	-	
Total UV3	5.002	8,480	49.500	90,682	4.234	8,572	48.106	90,320		_	355	7
* Only complative data is available for Apr-Dept NAF-Not Available			voca e of CEM M				:	,				



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## UNLOCKING **EFFICIENCY**

WITH THE IGBT-BASED 48 PULSE. 28 MW IG-NITE SERIES

Introducing Electrotherm's groundbreaking IGBT-based system with Digital technology & Al-based control algorithm - IG-NITE series, 48 Pulse, 28 MW system. This innovative system is designed to optimize efficiency and performance in metal processing.



# **WE OFFER**



#### Intelligent Control Algorithm:

The IGNITE series utilizes an AI-based control algorithm for precise and efficient operations, ensuring optimal performance.



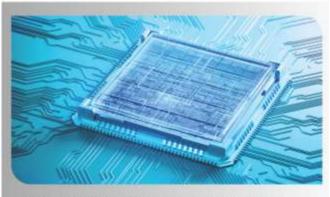
#### Efficient IGBT Technology:

Cutting-edge IGBT-based inverter for optimized and superior furnace performance and energy consumption.



#### Integrated SCADA:

The system integrates with a centralized SCADA for seamless monitoring and control of critical parameters, enhancing safety and reliability.



#### **KEY HIGHLIGHTS**

- Near unity power factor (>0.98) ensures efficient energy use.
- · Constant output maintained within a specified range of input voltage variation.
- · Built-in dynamic demand controller for energy-efficient operations.
- Centralized SCADA for real-time monitoring and proactive maintenance.





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