Since 2001 METALWORLD[™]

Devoted to Foundry & Non-Ferrous Metals Industry

Vol. 23 No. 03

March 2024

Registered-RNI No. MAHENG/2002/7908

www.metalworld.co.in



Abhimanyu Raja MD, Janyu Tech



Dr. Narra Rajesh Director- Technical, Ulti-Met



Mike Hedderman Area Sales Manager, EMG Automation GmbH

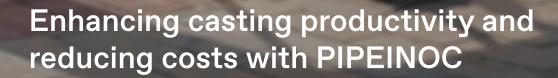
Digitalization – Driving the Industry Ahead

Status of Aluminium Industry in MENA region

BALCO certified to Aluminium Stewardship Initiative Standard V3



AI & Machine Learning -For Metals & Manufacturing Industry



PIPEINOC offers specialized powders for centrifugal casting of ductile iron pipes, aiming to minimize defects, ease pipe extraction, and prolong mold lifespan. PIPEINOC chute inoculants regulate chill in ductile iron pipes, potentially lowering energy consumption during heat treatment.

Contact - +91-22-67761917 www.elkem.com/foundry www.elkem.com/contact

2 Elkem



EDITOR D. A. Chandekar 3.E. (Met.) DBM, DJMC

EDITORIAL BOARD Amit Majumdar R.T.Kulkarni Sadguru Kulkarni

EDITORIAL ASSISTANCE Swati Padave

PRODUCTION Anita Chandekar

DESIGN & LAYOUT Ace Graphics

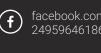
MARKETING Prachee More

Administrative Office

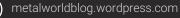
1, Alpha, M. G. Road, Vile Parle (E), Mumbai - 400 057. India **Tel. :** 91-22-2619 2376, 2617 1575 / 2617 1866

Email :

info@metalworld.co.in Editorial : editorial@metalworld.co.in Website : www.metalworld.co.in



facebook.com/pages/Metalworld 249596461861510



twitter.com/chandekar_d



 $(\mathbf{\triangleright})$

 (\mathbf{W})

youtube.com/channel/ UC4vpElyHO-xqdavO40rXXIw

linkedin.com/company/13450168



D. A. Chandekar Editor Dear Readers,

Metals play a crucial role in the infrastructure development process. It calls for profound metallurgical knowledge and expertise. The production and processing of these metals pose steep challenges to metallurgists, technologists and process experts. As we all know metals form the foundation of any sustainable and growing civilization. All the ancient civilizations had a strong metallurgical understanding. Same is true in today's era too.

Emerging concepts like circular economy, Digitalization, and Green manufacturing are reshaping the industry, while developments like EV present potential challenges to its growth. In case of special alloys, though they offer significant advantages like precise properties, many companies follow the specification of their principal / collaborator adding to the confusion at the customer's end and also adding to inventory carrying cost. I strongly feel that there is a need to prepare a national specification for such special alloys. This will not only simplify the process, reduce the number of grades to be handled but also reduce the inventory and it's carrying cost. Govt of India can take up this project with the help of industry experts.

Green manufacturing, in my opinion, is still at a very preliminary stage not only in India but worldwide. To

Editorial Desk



categorize any metallurgical product as 'Green', one has to make the complete process chain 'Green', including the sources of power, all the equipment and components etc. This will naturally take a long time. Also, presently there are no proper parameters set for Green metallurgical products. A long way ahead !

The Indian economy has performed guite well in the past few years and is expected to continue it's upward journey in the future too. The emphasis on infrastructure development is going to boost the metals demand in the country. The industry is going to benefit from the new scrapage policy. Also the defense is a new emerging customer sector. The present government's policy of 'Make in India' will surely give a forward push to the metals demand in the defense equipment sector but mind well, supplying to defense is not as easy as supplying to a private OEM. There are lot of hurdles. It requires that the supplier should satisfy many beurocratic procedures and compliances. I hope this long chain will gradually reduce with time and also the volumes would increase. On a long term basis, defense is of course a big consumer of metals sector.

'Metalworld' has been organizing various B2B trade shows for years, fostering a dialogue among industry stakeholders. The events attract an active participation from the industry, trade bodies and also the from the relevant govt departments. I sincerely hope the industry benefits from such healthy interaction !

Write your comments : https://metalworlddac.wordpress.com

Content

Face to Face 6	Digitalization – Driving the Industry Ahead	Ne 27	Carbon tax impact will have limited impacts on Indian primary aluminium industry: ICRA
T2th Asian Metallurgy	Digitalization is the key for productivity, efficiency as well as sustainability and the experts were quite positive		Hyundai Motor ends Indonesia aluminium deal after climate campaign by K-pop fans
Feature	about the future of digitalization in Indian metallurgical sector.	n	Global Aluminium Sheet Prices Inclines in March 2024, regions face different challenges
12	Status of Aluminium Industry in MENA region		Global copper smelters less active after China's planned output cuts
THERE	Dhiraj K. Chauhan	28	AI and data centers' rapid growth is creating a significant demand for copper
Technology			India initiates anti-dumping probe into import of aluminium foil from China
18	BALCO certified to Aluminium Stewardship Initiative Standard V3		29 Manufacto India Reshaping the Aluminium Formwork Industry with High-Tech Production
20 20 20 20	Al & Machine Learning - For Metals & Manufacturing Industry Dr. Prashant Pansare	R	Vedanta Aluminium's Healthcare Initiatives Benefit around 4 Lakh People in Odisha & Chhattisgarh
Industry Update		St	atistics
1.00	Zawar Mines: A Sustainable Evolution	30	Domestic passenger vehicle sales rise by 11% in February – SIAM
Disclai	mer :		Feedback :

Disclaimer : The views and opinions expressed in the articles are solely of the authors. The Editor may not subscribe to these. Feedback : Your feedback / suggestions regarding the content will be appreciated editorial@metalworld.co.in



01

BANGLADESH

0

Leveraging your success.

INDIA

AFGHANISTAN

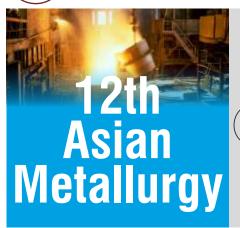
PAKISTAN

Energy and resource efficiency, sustainable transformation, additive manufacturing, lightweight construction, and e-mobility – these are the hot topics in our industry. Stay one step ahead and tackle them together with your reliable partner and local manufacturing. Our experts are at your side to find solutions that ensure your success.

> Visit us at IFEX in Bangalore, India, Hall 4, Booth B1 on February 2-4, 2024



Face to Face





Digitalization – Driving the Industry Ahead

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 18th to 31st December, 2023, featured online stands and webinars covering topics like digitalization, commodity trading, green steel production, role of zinc, sustainability. A notable webinar titled 'Digitalization - Driving the Industry Ahead'



The expert panel featured **Mike Hedderman**, Area Sales Manager, EMG Automation GmbH , **Abhimanyu Raja** , MD, Janyu Tech and **Dr. Narra Rajesh**, Director- Technical, Ulti-Met. This webinar was hosted by **D.A. Chandekar**, Editor, Metalworld & Steelworld.

Abhimanyu Raja -Implementing automation requires buy-in from middle management and convincing top management



of the need for investment despite safety not providing immediate returns. Retrofitting aged equipment, like hot metal handling systems in decades-old plants, is crucial. Collaboration with innovative companies, like in Dako, is key for joint product development. However, costs and integration challenges must be carefully assessed. Ultimately, successful implementation hinges on fostering an attitude of adoption, securing funding, and integrating changes seamlessly into existing operations.

Dr. Rajesh - Automation implementation requires a top-down approach, with visualization and approval starting from upper management. There may be lingering concerns about job security, but embracing technology is essential for progress. As costs rise and



industries evolve, integrating new technologies alongside traditional methods becomes increasingly necessary. Customers seeking justification for these changes are indeed justified, considering the broader context of industry advancements.



Mike Hedderman. Upper management must be convinced of the benefits of digitalization, primarily focusing on the potential for increased profits and cost savings. However, other

Foundry Products for Non-Ferrous Metals

Since 1856, Morgan Molten Metal Systems is a pioneer and a global leader in supplying technically advanced range of foundry products to Non-Ferrous Foundries.



Complete Degassing Solution

Morgan has introduced a complete solution to degassing needs of the foundries.



Mobile Degassing Unit



Hoist-Able Degassing System



Reduced Pressure Tester



Density Index Measuring System



Morganite Crucible India Ltd. (ISO 9001 Company) B-II, M.I.D.C, Waluj, Aurangabad - 431136 Maharashtra, India

Contact: vikramsinh.nalawade@morganplc.com +91 93705 91146 Web: www.morganmms.com



Face to Face

advantages such as improved communication, enhanced safety, and efficiency should also be highlighted. Recent advancements have enabled remote access to systems, allowing for better service and reduced downtime, especially crucial during the pandemic. Demonstrating these advantages will encourage further adoption of digitalization in industry.

Abhimanyu Raja -

Shifting to digital processes typically takes 40 to 60 months due to several factors. Firstly, digitalization ensures future readiness and meets customer demands, even if not initially preferred. Secondly, not all benefits are immediately tangible, and some decisionmakers still favor traditional methods. Educating and training employees on digital technologies further extends the implementation timeline. Despite ongoing developments, there remains a need for greater understanding and acceptance of digitalization at all levels of management.

Dr. Rajesh - Over the years, there has been a notable shift in mindset, especially evident from observations made since 2020. Trends show significant changes globally, with what was once considered a luxury becoming a necessity, particularly highlighted during the COVID-19 pandemic. Looking ahead to 2023, further advancements are expected in various domains, indicating ongoing development. Notably, India's economy exemplifies rapid growth, with the time taken to reach each trillion-dollar milestone significantly decreasing.

Mike - To stay competitive, it's crucial to continuously adopt and implement the latest technologies available. Industries are now reaching out to implement systems on their own, indicating a growing demand for innovation. Customers are increasingly seeking detailed information about their purchases, particularly in sectors like automotive, necessitating digital storage and accessibility of production data to meet these demands.



D.A.Chandekar - In countries like India with large populations, there's concern that excessive digitalization could lead to increased unemployment. As digitalization professionals, how do we address this argument?

Raja- During the transition to computerization in banks, there was resistance from unions, mainly concerning fears of job loss and information security. However, these concerns were proven unfounded as technology adoption actually created more opportunities and streamlined processes. Resistance to new technology is common, but embracing digitalization is essential for staying relevant in the future. Just as cell phones have become indispensable, digitalization is now a necessity for businesses to thrive.



Dr. Rajesh- From a global perspective, it's evident that technology adoption is essential for staying competitive. With advancements like drones and digital warfare, countries are increasingly focusing on technological superiority. To remain relevant and capture market share, businesses must embrace new technologies and evolve accordingly. Failure to do so could result in falling behind and losing out on opportunities.

Mike - Resistance to new technology, particularly from unions and the workforce, is prevalent across various industries, including steel and rail. However, with the inevitability of technological advancement, adaptation is not a choice but a necessity for future-proofing systems. Despite reluctance and battles with the workforce, the implementation of technologies like big data and robotics is increasing for efficiency and safety improvements. While some acceptance is reluctant, the

GHD AIKOH CHEMICALS

PRODUCT RANGE

- Fluxes
- > Granular Fluxes
- > Tablet Grain Refiner
- Tablet Degasser & NT Based
- Master Alloy Ti, B
- > Mag Remover
- > Phosphoreus Copper
- > Coating G.D.C.
- > Die Release Agent H.P.D.C.
- > Plunger Lubricant
- Copper & Brass Fluxes
- > Teeming Compound
- Fluxes of Copper, Brass, Lead, Mg , Ferrous & Non Ferrous Metal

ABOUT US

- > Long Term Support
- Strong R & D
- > Prompt Delivery
- Consistent Quality
- > 80 Years of Experience
- Export to More than 25 Countries
- Technical Collaborations with M/s Aikoh Co. Japan
- Sales & Distribution with M/s JS Chemical INC, USA
- Technical Collaborations with M/s NTC Japan

SARU AIKOH CHEMICALS LTD.

A-2, INDUSTRIAL ESTATE, PARTAPUR, MEERUT - 250 103 INDIA Tel. :0121-2440636, 0121-2440641, +91-7302000869, Fax : +91-121-2440644 E-mail: info@saruaikoh.com, customer.support@saruaikoh.com, Website :- www.saru.co.in





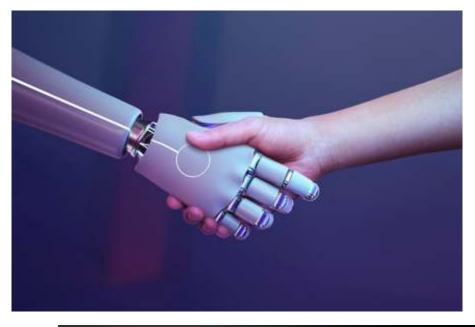
Face to Face

trend towards digitalization is unmistakable and impacting everyday items as well as industrial processes.

Dr. Rajesh- In our industry, there's little resistance to digitalization, especially at the top management level. In India, technology adoption has been rapid, often outpacing Western counterparts. Systems like UPI have been highly successful, driving the need for new skill sets and facilitating data analytics for product servicing. Overall, there's a widespread acceptance and enthusiasm for embracing digital advancements.

Rajesh- Our experience with deploying a sledge cleaning robot underwater has been highly positive, eliminating the need for costly plant shutdowns and water pumping. Initially met with skepticism, concerns about expense have now vanished due to the robot's effectiveness and judicial interventions enforcing safety measures. With advancements like drones for inspections, the benefits of digitalization in hazardous environments are clear, prompting widespread adoption.

D.A.Chandekar- Okay, so I think let's close on this note that everybody is quite positive about the future of digitalization in India in general, and still in the same particular So the, the fact that our, our digital shows are also growing in also shows the interest and the seriousness of people in the process of digitalization.







METALWORLD 10 Mar 2024



MTNL Lane Off. Sakinaka, Andheri, Mumnai 400 072 INDIA

sales@vasbharat.com



Status of Aluminium Industry in MENA region

Introduction: Today, Aluminium industry is a vibrant sector in the Gulf and a major contributor to the economies of the region. It is an important source of direct employment and a key contributor to a number of small and medium sized support industries. And even as the world has turned its attention to the Aluminium sector in the GCC, it is not merely a story of success, but also a story of healthy competition, synergy, and collaboration between the various participants and countries for the greater good of the sector, and region as a whole.

There are three main elements needed to build Aluminium smelters. The first element is energy, and modern infrastructure and ports, and have excellent location to supply the world market in Europe, Asia, or United States.

Until 2008, there were two smelters, Alba and DUBAL with 1.92 million mt/y capacity which were cooperating in all fields. By 2010, Saudi Arabia, Oman, Qatar, and Abu Dhabi had built new smelters, not only increasing the overall production in the GCC region but also turning the region into a regional hub for the international Aluminium market. Today, there are six smelters in the region: Alba, DUBAL, EMAL, Sohar, Qatalum and Ma'aden, whose combined production capacity is approaching 5 MMt/y.



Dhiraj K. Chauhan (Director: METCON-Metallurgical Consultants)

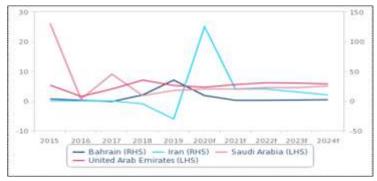


Fig.1: Select Countries - Aluminium Production Growth, % chg y-o-y.

the Gulf is rich in this regard. The second element is capital, which is also available locally and through international banks and financial institutions. The third element is market. The local industry for Aluminium is increasing in the Gulf and world demand for the metal is increasing at a rate of 5% annually. In addition, all the Gulf States have built Future outlook: Middle East will experience modest production growth in its Aluminium sub-sector in the coming years, bolstered by expansion in regional production capacity amid a recovery in Aluminium consumption. UAE will maintain its role as the region's leading producer, although Bahrain will also experience an increase in output.

Production in Qatar and Saudi Arabia will experience slower growth compared to regional peers such as Iran which will witness a significant inflow of investment to accelerate domestic Aluminium capacity.

The Middle East has become a prominent Aluminium producer over the past decade, particularly the Arab states that form the Gulf Cooperation Council (GCC). In 2019, GCC accounted for 9.1% of global primary Aluminium production, rising from 1.6% in 2010. Despite an Aluminium price collapse earlier in 2020 amid the global Covid-19 pandemic, GCC primary Aluminium production in the year through August has increased 2.7% y-o-y to 3.8bnt. In the coming years it is expected to see steady growth in Middle Eastern Aluminium production, and United Arab Emirates (UAE), Bahrain, Iran, Qatar and Saudi Arabia are markets to watch.

Production Growth scenario:

(1) UAE will maintain its position as the region's largest Aluminium producer, underpinned by Emirates Global Aluminium (EGA) USD1.4bn upstream integration. In 2019, the UAE accounted for 44.5% of Aluminium production within the GCC and contributed the most aluminium in the MENA region. Emirates Global Aluminium, is the largest producer of premium Aluminium, and was formed by



Modern castings need cores of all complexity. **Gargi Hüttenes-Albertus** products combine excellent performance, consistency and environmental compatibility to add value to your casting.



Our goal is to minimize foundry environmental impact throughout our product's life cycles, with an ongoing commitment to continuous improvement.

- Solostanos

Gargi Hüttenes-Albertus Private Limited

1502 Vikas Centre, 15th Floor, Dr. Choitram Gidwani Road, Chembur, Mumbai - 400074. Maharashtra. India. (© +91 (022) 68785656 (©) gargiha@ha-group.com () www.ha-group.com () HuettenesAlbertusGroup () #hüttenesalbertus

GRO



Feature

the merger between Dubai Aluminium (DUBAL) and Emirates Aluminium (EMAL) in 2013. The conglomerate benefits from its recent integration, having shipped over 6.1mn dry metric tonnes of bauxite since the August 2019 commencement of its subsidiary Guinea Alumina Corporation (GAC). Despite Covid-19, GAC is on schedule achieve full production capacity of approximately 12mnt per annum by the end of 2020, solidifying EGA's value chain and supply for its Jebel Ali Aluminium smelter.



Fig.2: Saudi Aluminium mining

Aluminium production in the UAE will also benefit from its increased sustainability initiatives. For example, in September 2020, EGA reported its greenhouse-gas emissions intensity was 38.0% lower than the industry average. This will likely increase the firm's attractiveness to environmentally-conscious firms in Europe, such as automakers. In November 2019. EGA announced that its supply agreement with BMW would be increased and extended through 2022. Dubal has also announced several planned projects in the UAE such as a lowcarbon Aluminium rolling facility, electrical vehicle battery storage plant and

cast aluminium wheel production facility. As such, we highlight upside to the country's role in the burgeoning electric vehicle market.

(2) Production in Bahrain will benefit significantly from the inauguration of a new potline at its Alba smelter. In 2019, Bahrain produced 1.4mnt of aluminium, making it the second largest contributor after the UAE. Aluminium Bahrain's (Alba) smelter is the largest global aluminium smelter outside of China, and as of September 28, the firm remains committed to a production



Fig.3: Ma'aden Aluminium Refinery

target of 1.54mnt in 2020. The firm previously inaugurated Potline 6 in November 2019, which is expected is bolster annual output by 540kt. Potline 6 features DX+ Ultra technology, created by EGA in 2016, signifying the UAE's technical dominance in the regional aluminium market.

(3) Aluminium production growth in Saudi Arabia and Qatar will remain steady. In 2019, Saudi Arabia and Qatar

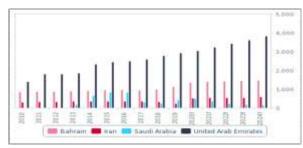


Fig.4: Select Countries - Aluminium Production, '000 tonnes

produced 965kt and 626kt of aluminium respectively, rounding out the top four MENA aluminium producers. Status of Secondary Aluminium Production: These applications are mainly in extrusion.

The MEA aluminum extrusion market size was valued at USD 1.6 billion in 2020 and is expected to grow at a compound annual growth rate (CAGR) of 4.0% from 2021 to 2028. The increasing use of aluminum products in vehicles is projected to drive market growth over the forecast period. Aluminum extrusions are used in the automobile industry for various applications, such as rear subframes, door instruction beams, seat cross members, stiffeners, front bumper beams, brake, suspension, and steering components. These different applications of aluminum can significantly reduce the weight of vehicles. Hence, the share of automotive applications in the aluminum

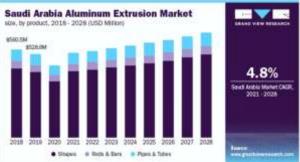


Fig.5: Saudi Arabia Aluminum Extrusion Market

extrusion market is likely to witness strong growth over the forecast period. Saudi Arabia was the second-largest market in 2020, in terms of volume and revenue, and is likely to register the fastest CAGR over the forecast period.

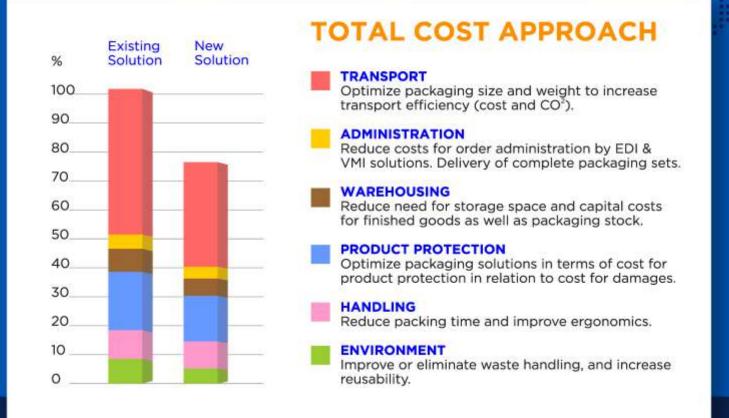
In the UAE, a large amount of



SOLUTIONS TO REDUCE YOUR TOTAL COST & ENVIRONMENTAL IMPACT

"WE PACK

ANY THING, ANY SIZE. ANY SHAPE



Our TOTAL COST APPROACH ensures that packaging is optimized, reducing total cost in your supply chain.

we are sure to invite us for reducing total packaging cost. PLEASE FEEL FREE TO CONTACT US

NEWEL PACKAGING PVT LTD

UNIT 1

Plot No. 203, Vasantdada Industrial Estate, Sangli 416416.

UNIT 2

Plot No. 109, 110, 111, Vasantdada Industrial Estate, Sangli 416416.

(+91) 233 2310424

(+91) 905 957 1111 (+91) 942 125 4097 NEWEL

piyush@newelpackaging.com nitin@newelpackaging.com sales@newelpackaging.com

www.newelpackaging.com



Feature

manufactured aluminum extrusion is domestically consumed while Gulf Extrusions LLC, the largest player in the region, exports 30% of its total products internationally. Its plant in Jebel Ali has an annual production capacity of 60,000 tons.

Some of the prominent players operating in the MEA aluminum extrusion market are:

Alupco, Gulf Extrusions Co. LLC, Taweelah Aluminum Extrusion Co. (TALEX) LLC, National Aluminum Products Company SAOG (NAPCO), Balexco (Bahrain Aluminium Extrusion Company) and Emirates Extrusion Factory LLC. Status of Aluminium Industry in Africa: Africa is one of the largest producers of aluminium ore BAUXITE as a whole. African nation Guinea stands as the world's highest exporter of bauxite and ranks at number two in

bauxite production. The other African countries producing bauxite are Ghana, Cameroon, Mozambique, Ivory Coast, etc. There are multiple numbers of aluminium smelters scattered all around the continent, but most of the

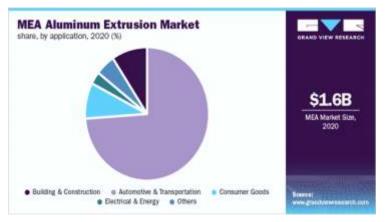


Fig.6: Aluminium Extrusion market share (Application wise) MENA Region – Aluminium (AI) Production in ('000 mt) and y-o-y % change Region and Country wise figures are given in table 1.

			Table 1	l				
GEOGRAP HY	INDICATOR	2018E	2019E	2020F	2021F	2022F	2023F	2024F
MENA region	Al. prodn. ´000,MT	5,902.2	6,421.5	7,071	7,427	7,695	7,958	8,239
MENA region	y-o-y % change	5.3	8.8	10.1	5.0	3.6	3.4	3.5
Bahrain	Al. prodn. ´000,MT	1,056.0	1,425.6	1,554	1,569	1,585	1,609	1,642
Bahrain	y-o-y % change	10.0	35.0	9.0	1.0	1.0	1.5	2.0
Iran	Al. prodn. 000,MT	337.25	234.39	527.37	632.85	759.42	873.33	960.67
Iran	y-o-y % change	-5.0	-30.5	125.0	20.0	20.0	15.0	10.0
Saudi Arabia	Al. prodn. ´000,MT	932.08	964.70	1,003	1,043	1,090	1,139	1,196
Saudi Arabia	y-o-y % change	1.8	3.5	4.0	4.0	4.5	4.5	5.0
United Arab Emirates	Al. prodn. 1000,MT	2,781	2,926	3,059	3,228	3,425	3,629	3,835
United Arab Emirates	y-o-y % change	7.0	5.2	4.6	5.5	6.1	6.0	5.7



smelters failed to reach its actual production capacity and few also took steps to close down like Bayside Aluminium in South Africa and Alscon in Nigeria.

North African countries contribution is hardly worth mentioning.

Egypt Aluminum Company (Egyptalum) lies 100 kilometers north of the city of Luxor. Egyptalum is the largest aluminium producer in Egypt and one of the largest in Africa has a total annual production capacity of 320,000 tonnes. The company is supplied with the electric energy it needs from the Aswan High Dam. Egypt has 14% share in Aluminium production in Africa.

Libya Aluminum Exports was reported at 4,674.729 USD in Dec 2022 Countries like Libya, Algeria and Tunisia have more output of Oil, and Natural gas.



ALUMINIUM CHINA

03-05 July 2024 Hall N1-N4. Shanghai New International Expo Center

Asia's Leading Sourcing and Networking Platform for The Entire Aluminium Industry Chain

ALUMINIUM CHINA provides an integrated platform for business procurement, international exchange, networking and branding by converging new products, technologies, processes, and applications covering the entire aluminium industry chain of alloys, processing materials, manufactured parts, finished products, as well as equipment, auxiliary materials and consumables.





Exhibit Range

Aluminium Materials

- Primary aluminium
- Recycled aluminium
- Aluminium alloys
- Semi-products and half made alloys, such as aluminium profiles, sheets, belts, foils, aluminium-plastics, casting, and forging

in the business of

 Deep processed products, covering construction, transportation, machinery, packaging, electronics, photo-voltaic industries

Processing Equipment & Auxiliaries

- Primary aluminium processing equipment
- Recycled aluminium processing equipment
- Heat processing equipment
- Extrusion and rolling equipment
- Surface processing equipment
- Test and measurement equipment
- Deep processing equipment
- Environmental protection and energy efficient equipment
- Smart manufacturing equipment
- Refractory materials, foundry chemicals, master alloys, additives etc.
- Other auxiliary materials and equipment

Concurrent Events

Lightweight 2024亚洲汽车轻量化展览会 Asia's Lightweight Automotive Trade Fair



2024年上海国际工业材料展览会 COPPER CHINA 2024

Follow us on our socials





Co-Organizer:

Reed Exhibitions Deutschland GmbH Beijing Antaike Information Co., Ltd.

🛓 Caroline Wang 🛛 🔍 +86 10 5933 9325

please contact:

For exhibiting, visiting and marketing cooperation,

3 9325 🛛 🗃 caroline.wang@rxglobal.com

In the business of building businesses



BALCO certified to Aluminium Stewardship Initiative Standard V3

Bharat Aluminium Company Limited, a unit of Vedanta Aluminium, has achieved the Aluminium Stewardship Initiative (ASI) Performance Standard V3 Certification for the manufacture and supply of a wide range of primary aluminium products at its facility in Korba, Chhattisgarh. This includes a smelter with two pot lines for producing molten aluminium (hot metal), three cast houses for shaping the aluminium, a rolled product plant and a power generation plant. Together, they contribute to an annual production capacity of 575,000 tonnes at BALCO.

BALCO produces aluminium

wire rods, ingots, primary

foundry alloys and rolled

products, as well as India's first low carbon aluminium range Restora. They find applications in several sectors including automobiles, infrastructure, insulations, power projects, electrical and packaging. It has emerged as the first Indian company to achieve the ASI Performance Standard V3 Certification. Previously, Vedanta Aluminium has also achieved the ASI Performance Standard V2 Certification for its smelter and captive power plant located within the Special Economic Zone (SEZ) at Jharsuguda, Odisha, India. The ASI Certification program was developed

through an extensive multi-

stakeholder consultation process and is the only comprehensive voluntary sustainability standard initiative for the global aluminium value chain. The ASI Performance Standard V3 (2022) was launched in May 2022 following a multi-year revision process. It defines 11 principles and 62 criteria under three sustainability pillars -Environment, Social, and Governance - with the aim to address sustainability areas in the aluminium value chain, such as biodiversity, indigenous peoples' rights, circularity, and greenhouse gas emissions. The independent, third-party audit of Bharat Aluminium Company Limited (BALCO) was carried out by CETIZION Verifica.



ILZDA



International Conference on

Recent Developments in Galvanizing & Zinc Spraying - Technology, Environment & Markets 29 & 30 April 2024, Ahmedabad



- Presentations by Overseas & Indian experts
- Coverage: Galvanizing & Zinc Spraying
- Focus: Technology, Markets & Environment

n & Steel Industry

Plant Visit on 30 April afternoon for ILZDA member delegates

Organized by India Lead Zinc Development Association For Registration, Cosponsorship, Advertisement, Pls contact: +91 9871300929, +91 9873058907 Email: ilzda.info@gmail.com; Website: www.ilzda.com

Media Partners





Technology

AI & Machine Learning - For Metals & Manufacturing Industry

Metal and process manufacturing industries deal with complex, multiphysics processes, where a lot of variables and correlations are not completely understood. Complex by nature, each of its processes generates an astonishing amount of data which provides useful insights if properly managed. Besides that, environmental conditions play an important role in the process and are keen to change over time. An effective digital & datadriven program leads all heavy industries in the improvement of sustainability and competitiveness on the market.

algorithms are being used to design complex metal components with greater optimization and efficiency. These tools can analyze vast amounts of data to identify the best materials, shapes, and manufacturing processes for a desired outcome.

• Predictive maintenance: Machine learning algorithms can analyze sensor data from machines to predict potential failures before they occur. This allows for proactive maintenance, minimizing downtime and production losses.



Dr. Prashant Pansare CEO – Rubiscape India

eliminates human error.

- Robotic automation: Al is playing a growing role in robotic automation, enabling robots to perform more complex tasks and adapt to changing environments. This allows for increased flexibility in production lines and the ability to handle a wider variety of parts.
- Digital twins: Al can be used to create digital twins of physical machines and processes. These virtual simulations allow manufacturers to test new designs, optimize production processes, and identify potential problems before they occur in the real world.



Artificial Intelligence (AI) and Machine Learning (ML) are rapidly transforming the metal and manufacturing industry, driving a new era of efficiency, precision, and innovation. Here are some examples.

- Al-powered design: Al
- Automated quality control: Al-powered vision systems can inspect manufactured parts for defects with high accuracy and speed. This reduces the need for manual inspections, improves overall quality, and



The AI Takeover

Over the last couple of years, there has been an accelerated digital adoption across industries. More digital means more data, and that's precisely the reason Artificial Intelligence & Machine Learning has taken







International Bauxite, Alumina and Aluminium

Society (IBAAS)

In Association with

Indian Institute of Metals (IIM)

Presents

12th International Bauxite, Alumina & Aluminium Conference & Exhibition

Aluminium Industry - Vision 2030

September 25-27, 2024

Objective of the Conference

- * Develop a road map for Bauxite, Alumina and Aluminium industry in India.
- * Provide a platform for primary and secondary aluminium producers to share knowledge and review latest developments in the entire value chain of Aluminium Industry.
- * Application of Bauxite and Alumina in non-metallurgical industries.
- * Digitisation Process and Digital Twins.
- * Decarbonization and Green Aluminium.
- * Aluminium recycling industry.

(Website: WWW.IBAAS.INFO

👱 Email: INFO@IBAAS.INFO

INFO.IBAAS@GMAIL.COM

Phone: +91 9373818839

Conference Highlights

- * A pre-conference workshop on 3D Printing will be organized by BITS and IIM Goa Chapter.
- * Visionary leader outlines the future trajectory of the bauxite, alumina & aluminium industry.
- * The latest developments & innovations in alumina refining, aluminium smelting & aluminium downstream/recycling technologies.
- * A post conference visit to the HINDALCO Belagavi Alumina Refinery, Karnataka.

For participation and further details, please contact the IBAAS Office, India

BITS- Pilani K K Birla Goa Campus Goa, India a centre stage. Here are some emerging trends in AI, ML, and data science to watch in 2024:

• Democratization with AutoML : Automated Machine Learning (AutoML) tools are simplifying AI and ML for non-experts. AutoML automates tasks like model selection, hyper parameter tuning, and deployment, making it easier to leverage these technologies for a wider range of applications.

• Rise of Generative AI : Generative AI models can create entirely new data, like realistic images, text, or even code. This has applications in areas like synthetic data generation, and creative content development.

• Edge Intelligence:

Processing data closer to where it's generated, on "edge" devices, is becoming increasingly important. This reduces reliance on centralized cloud computing and enables faster, realtime decision-making for applications like autonomous vehicles and industrial automation.

• Quantum Computing and AI : While still in its early stages, quantum computing has the potential to revolutionize AI by solving complex problems that are intractable for classical computers. This could lead to breakthroughs in areas like materials science and financial modeling.

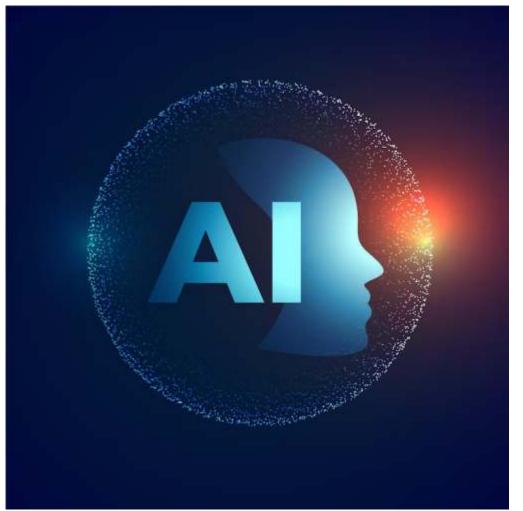
• Continuous Rise of NLP & LLM : Natural

Technology



The metal industry can undergo a significant transformation by embracing a data-driven approach. Here's how:

Data Collection and Infrastructure



Language Processing (NLP) and Large Language Models (LLM) enables computers to understand and process human language. Advancements in NLP & LLM are leading to more sophisticated chatbots, machine translation tools, and sentiment analysis applications. • Embrace IoT and Sensors : Implement sensors throughout the manufacturing process to collect real-time data on everything from machine performance and temperature to material properties [1].

• Standardize Data Collection : Establish consistent data collection practices across departments to ensure data quality and facilitate smooth integration for analysis.



Promoting Foundries

25-28 SEP, 2024 NSIC GROUND, RAJKOT, GUJARAT



Concurrent with

PRAJKOT MACHINE TOOLS SHOW

FOR STALL BOOKINGS

Mr Ritesh Shah | 😒 +91 93282 49374

sales@castingsandfoundries.com

(in **f** (ii)

ORGANIZED BY



CO-ORGANIZED BY



SUPPORTED BY



FOUNDRY-PLANET GERMANY SUPPORTING MEDIA



METALS REVIEW



METALWORLD MAGAZINE



Technology

• Invest in Data Storage Solutions : Invest in robust data storage solutions like cloud platforms to handle the massive amount of

data

generated in metal manufacturing. Data Analysis and Utilization

• Leverage Big Data Analytics : Utilize big data analytics tools to extract valuable insights

from the collected data. This can reveal

patterns,

trends, and areas for improvement.

• Predictive Maintenance : Implement Al-powered algorithms to analyze sensor data and predict equipment failures before they happen. This allows for proactive maintenance, minimizing downtime and maintenance

costs.

- Process Optimization :
- Use data analytics to identify bottlenecks and inefficiencies in the production process. Data can guide decisions to optimize resource utilization, production schedules, and overall efficiency.
- Data-Driven Decision Making : Empower decision-makers at all levels with data-driven insights. This allows for more informed choices regarding production planning, pricing

strategies, and resource allocation. Cultural Shift and Workforce Training

• Data Literacy : Invest in training programs to improve data literacy among the workforce. This equips employees

to

understand, interpret, and utilize data effectively in their daily tasks.

- Culture of Continuous Improvement : Foster a culture of continuous improvement where
- data
 - is used to identify areas for improvement and implement data-driven solutions.
- Collaboration between Teams : Encourage collaboration between data scientists, engineers,
- and production floor personnel to ensure data insights are translated into actionable solutions

on the shop floor. Benefits of a Data-Driven Metal Industry

- Increased Efficiency : Reduced downtime, optimized processes, and
- improved resource allocation lead to significant efficiency gains.
- Enhanced Quality Control : Data-driven insights can improve quality control processes and minimize defects.

- Improved Sustainability : By optimizing resource usage and minimizing waste, data-driven practices contribute to more sustainable metal manufacturing.
- Cost Reduction : Predictive maintenance, optimized processes, and reduced waste lead to significant cost savings.
- Competitive Advantage : Increased efficiency, better quality control, and faster response times make metal manufacturers more competitive in the global market.

In conclusion - The road to a data-driven metal industry requires investment, cultural change, and workforce training. However, the potential benefits in terms of efficiency, cost reduction, and sustainability make this transition a worthwhile endeavour for metal manufacturers of all sizes.





METEC INDIA

PROCESSES AND METAL PRODUCTS TRADE FAIR

Demonstrate your solutions at the premier exhibition for metallurgical technologies

Why Exhibit?

- Strengthen bond with existing customers
- Announce and display latest innovation and developments
- Expand distribution and supply chains

Strengthen or establish your brand

- Connect with competitors to identify best practices
- Optimize sales and lead generation strategy

Event Highlights



Spread over 25,200+ sqm



worldwide

Technical conferences



* incl. wire India, Tube India, METEC India and INDIA ESSEN WELDING & CUTTING

For more information, please contact:

Vivek Bohra

powered by

The Bright World of Metals

Shubham Sharma

+91 (0) 124 4544 510, BohraV@md-india.com +91 (0) 124 4544 527, SharmaSh@md-india.com







Industry Update



Zawar Mines: A Sustainable Evolution



Nestled within the heart of Rajasthan's arid landscapes lies Hindustan Zinc's Zawar Group of Mines, a captivating testament to centuries of mining history and innovation. Situated in #ZincCity, these mines occupy the southern reaches of the sprawling Aravalli Range, boasting a remarkable array of flora and fauna, with over 200-220 bird species highlighting its biodiversity. Zawar Mines have not only survived but thrived, evolving from primitive beginnings to the high-tech operations managed by Hindustan Zinc, a Vedanta group company, which has played a crucial role in reshaping the narrative of Zawar.

Hindustan Zinc's dedication to responsible mining is evident through investments in advanced technologies, effective waste management systems, and initiatives for environmental preservation. Their commitment is showcased by best-in-class exploration machines and sustainable initiatives like the CII National Award-recognized Dry Tailing Plant. Dominating the landscape, the Zawarmata temple represents historical



grandeur with archaeological evidence supporting its ancient origin. Dating back to the 6th century BC, Zawar Mines boast one of the world's oldest zinc smelting sites. Old workings at various places such as Mochia, Bhalariya, Baroi, and Zawarmala Mines contain numerous old mining



equipment, including bamboo baskets, wooden ladders, earthen lamps, and wooden supports. Carbon dating of these artifacts suggests the age of these



workings to be between 2500 to 2800 (±100) years. Carbon dating has been invaluable in unravelling the history of the Zawar mines, revealing mining and smelting activities from the 8th century BCE to the mid-19th century CE, marking centuries of mining legacy. Zawar mines hold vast reserves of zinc, lead, and silver ores, playing a pivotal role in bolstering the Indian economy and finding application in diverse industrial processes, from battery manufacturing to construction material production. Beyond economic significance, Zawar Mines have positively impacted surrounding communities through various upliftment initiatives. These range from encouraging the adoption of innovative farming techniques to the empowerment of local women, contributing to holistic development in the region. The story of Zawar Mines is one of evolution, progress, and sustainability. As the sun sets over the Aravalli Range, Zawar Mines continue to shine as a beacon of hope and possibility for the mining industry, serving as a continuous source of livelihood for the tribal people



in this region.



Carbon tax impact will have limited impacts on Indian primary aluminium industry: ICRA

The European Union's carbon tax is anticipated to have a limited impact on Indian primary aluminium producers, as per ICRA's findings. Initially, the Carbon Border Adjustment Mechanism (CBAM) will cover only direct process-related emissions, starting January 1, 2026. This is expected to moderately affect aluminium prices, with a projected 2-6% impact. However, if indirect emissions, mainly stemming from coal-fired power plants, are included in the future, the impact could be severe, potentially reaching 27-30% of current prices. Despite India's efforts to reduce carbon footprint, the reliance on coal-fired electricity poses a challenge.

Meanwhile, Europe's potential ban on Russian aluminium could ignite competition between European and U.S. buyers for Middle Eastern aluminium, leading to price hikes. This competition may evoke memories of 2018, when sanctions were imposed on Rusal. Middle Eastern countries like the UAE and Bahrain could become key suppliers, particularly as aluminium gains importance in electric vehicle manufacturing. The loss of Russian metal could leave Europe with a shortfall of approximately 500,000 tons, necessitating a search for alternative suppliers and potentially the restart of idled capacity in the region.

Hyundai Motor ends Indonesia aluminium deal after climate campaign by K-pop fans

South Korea's Hyundai Motor Co and PT Adaro Minerals Indonesia Tbk have ended an aluminium supply agreement after calls by a climate campaigner backed by K-pop fans not to procure supplies of the metal produced using coal power.

Millions of young K-pop fans have thrown their considerable weight at times behind various global campaigns and social causes, often using social media. Hyundai Motor said in a statement on Tuesday that it had ended its non-binding memorandum of understanding (MoU) with Adaro, a unit of Indonesia's second-largest coal miner Adaro Energy Indonesia, at the end of 2023, adding that the companies had decided to explore other opportunities independently.

Wito Krisnahadi, director of PT Adaro Minerals Indonesia, also confirmed the companies had decided not to renew the agreement following its expiry.

The South Korean automaker signed the MoU with Adaro Minerals in 2022 to secure the right to purchase aluminium produced by Adaro's subsidiary PT Kalimantan Aluminium Industry.

At the time of the signing, Hyundai said it expected to procure aluminium from Adaro that meets the automaker's carbon neutralization policy amid growing demand for aluminium among global automakers.

Global Aluminium Sheet Prices Inclines in March 2024, regions face different challenges

In March 2024, the global aluminium market witnessed dynamic shifts affecting supply and demand dynamics across key regions. In the USA, Aluminium Sheet remained readily available to meet demands, benefiting from market dynamics. Germany experienced inventory drops, while Alumina production in the Americas decreased, impacting supply chains. China faced delays from suppliers, leading to raw material shortages. Aluminium Sheet prices inclined due to supply-demand disparities, particularly favored by pricing dynamics. In the US, a surge in demand for Aluminium Sheet was observed, fueled by competitive dynamics, with positive demand trends persisting. Germany's low inventory levels posed industry challenges, potentially leading to price hikes. Similarly, China's domestic Aluminium Sheet industry experienced heightened demand, notably from the automotive sector, reflected in increased supplier delivery times and a rebounding manufacturing industry. Overall, the market dynamics were influenced by decreased inventory levels, post-Lunar New Year recovery, and adverse weather conditions, with Aluminium Sheet prices showing fluctuations. The strong demand for Aluminium Sheet in the US and Europe, coupled with

Global copper smelters less active after China's planned output cuts

China's energized domestic industry, indicates continued

market momentum in the coming months.

More global copper smelters were not operating in March than in the first two months, data from satellite surveillance of metal processing plants showed, after Chinese smelters proposed to cut output and operations elsewhere undertook planned maintenance.

Earth-i, which specialises in observational data, tracks smelters representing up to 90% of global production for its SAVANT service and sells data to fund managers, traders and miners.

The company said that an average of 17.7% of global copper smelter capacity monitored was inactive in March compared with 11.5% during January and February combined.



News Update

Average inactive capacity in China rose to 9% in March from 8.3% in the first two months, it added in a statement on Thursday.

China's top copper smelters proposed in late March to cut production by 5% to 10%, sources told *Reuters*, after the world's top producer of refined copper battled short supply of raw material and losses at some operations.

"As market watchers seek confirmation of pledged curtailments in China ... inactivity in the country jumped sharply in the final days of March, ending the month at a substantially higher 12.8%," Earth-i said.

Outside China, the Isabel plant in the Philippines has shown "flickers" of inactivity, along with Codelco's Chuquicamata smelter in Chile, it added.

"We are now entering a period of several scheduled maintenance closures."

Trafigura: AI boom could spark a copper shortage

AI and data centers' rapid growth is creating a significant demand for copper

- The copper market is already facing a 4-5 million ton deficit by 2030.
- China, a major copper producer, is considering production cuts due to raw material supply issues.

The chief economist at commodity trading giant Trafigura has warned the copper market could tighten further as a result of artificial intelligence.

Speaking at the Financial Times Commodities Summit in Switzerland, Trafigura's chief economist Saad Rahim said that growth has "suddenly exploded" as a result of the proliferation of global data centres.

2030, this could amount to an additional 1m tons of need, Rahim said and that the figure is "on top of a 4-5m ton deficit gap by 2030 anyway".

He added: "That's not something that anyone has actually factored into a lot of these supply and demand balances." China Heavily Subsidized BYD to Expand Its EV Market Share

Rahim's concerns surrounding AI and its dredging of resources has been echoed by others.Recent research from the University of Washington shows that the hundreds of millions of queries logged on Open AI's platform require the equivalent energy of 33,000 US households — around one gigawatt-hour a day.

Copper, meanwhile, rallied to its highest price point in over a year last week, hitting nearly \$9,400 (£7,444), despite lingering concerns about the state of the global economy.

The energy transition has been fuelling the drive for copper as a key component of electric vehicles and renewable energy technologies.

Additionally, the prospect of lower interest rates spurring on global manufacturing, for which copper is a key material, as well as a long-awaited wake-up in China's property industry, have also been signalling a growing need for the red metal.

But China, which is also the third-largest producer of copper from mines, has been threatening to cut production as it struggles to maintain regular raw material supplies. This problem is also felt across projects in other countries.

Kieron Hodgson, an analyst with Panmure Gordon, said in a note circulated this week that Chinese cuts would "change the narrative for all" and "significantly tighten" the global copper market, driving prices upward.

India initiates anti-dumping probe into import of aluminium foil from China

Hydro Årdal opens new recycling unit with capacity to process 25,000 tonnes of post-consumer aluminium scrap annually

As part of its efforts to meet the demand for low-carbon aluminium in European markets, aluminium and renewable energy company, Hydro, has invested NOK 100 million in recycling technology in the casthouse at the Årdal primary aluminium plant in Norway.

Image above: Årdal Recycling opened on April 10 by Mayor of Årdal Christian Sønstlien, Minister of Trade and Industry Jan Christian Vestre and Plant Manager Anveig Bjordal Halkjelsvik. (Photo: Jens Christian Boysen/Hydro)

"The demand for low-carbon aluminium is increasing, particularly in the automotive industry. Thanks to the cutting edge technology and know how utilized by our team in Årdal, customers can reduce the carbon footprint in their value chain and get closer to achieving their climate targets," says Eivind Kallevik, Executive Vice President of Hydro Aluminium Metal.

The upgraded casting line in Årdal will mix primary aluminium made with renewable hydropower with up to 30 percent post-consumer aluminium scrap. This is resulting in a record low-carbon footprint that helps some of the most advanced customers in Europe cut the embedded greenhouse gas emissions of their products. The recycling unit in Årdal had its official opening on April 10. Hydro Årdal is now able to deliver REDUXA 3.0 aluminium with a carbon footprint of below 3.0 kg CO2e/kg aluminium. This is approximately 80 percent lower than the world average.

"Low-carbon aluminium from Årdal is already an important part of Hydro's strategic partnership with leading customers in our joint efforts to decarbonize. With this upgrade and other long-term investments at the

News Update



plant, Hydro Årdal is set to deliver low-carbon aluminium to the European market for decades to come," says Kallevik.

Hydro aims to become a net-zero producer of aluminium by 2050, and is on track to achieve a 30 percent reduction in emissions by 2030 compared to 2018 levels. Aluminium recycling is one of the main pathways of Hydro's decarbonisation strategy.

In addition to recycling of post-consumer scrap, Hydro is working towards full decarbonization by introducing new technologies such as carbon capture and storage, as well as developing HalZero, a completely new electrolysis process with the potential to eliminate CO2 emissions from primary aluminium production altogether.

Manufacto India Reshaping the Aluminium Formwork Industry with High-Tech Production

Manufacto India's commitment to innovation, quality, and



client-centric solutions positions the company as a strong contender in the aluminium formwork industry

Manufacto India Reshaping the

Aluminium Formwork Industry with High-Tech Production Manufacto India Pvt. Ltd., founded in December 2023 by industry veteran Sanjiv Chhabra, is revolutionizing the aluminium formwork sector with its customer-centric approach, innovation, and unwavering commitment to quality.

Drawing from Chhabra's 14 years of experience in aluminium manufacturing and real estate development insights, Manufacto India addresses the persistent challenges faced by builders and developers. Backed by a team of seasoned experts with over 15 years of experience in aluminium formwork manufacturing, the company aims to deliver premium-quality solutions tailored to each project's unique requirements.

Equipped with state-of-the-art machinery and boasting a production capacity of 15,000 square meters per month, Manufacto India ensures timely delivery of customdesigned formwork systems. These systems offer accelerated construction timelines without compromising on quality, undergo rigorous testing processes, and boast a high load-bearing capacity, providing exceptional durability and reliability.

Furthermore, Manufacto India's buyback guarantee at 40% of the original sale price underscores its confidence in the product's longevity, while the company's commitment to sourcing reliable raw materials ensures

consistent quality and performance.

With its focus on innovation, quality control, and client satisfaction, Manufacto India emerges as a formidable player in the aluminium formwork industry, poised to provide efficient and dependable construction solutions for builders and developers alike.

Vedanta Aluminium's Healthcare Initiatives Benefit around 4 Lakh People in Odisha & Chhattisgarh

On World Health Day, Vedanta Aluminium, a leading aluminium producer in India, revealed its significant impact on the healthcare landscape in Odisha and Chhattisgarh, benefiting approximately 4 lakh individuals in FY24. Embracing the theme "My health, my right," Vedanta Aluminium has been dedicated to providing toptier healthcare services and promoting preventive measures, aligning with the fundamental right to quality healthcare for all.



Across its operations in Jharsuguda, Lanjigarh, Korba, and Vizag General Cargo Berth (VGCB), Vedanta Aluminium spearheaded

various initiatives. In Jharsuguda, mobile healthcare units traversed nearly 30 villages, disseminating health awareness materials and conducting a pilot breast cancer screening camp at the Jharsuguda Diagnostic Centre. Lanjigarh witnessed a multi-specialty health camp, benefiting over 500 individuals, alongside extensive health and hygiene awareness programs across 20 villages. In Korba, assistive devices were distributed to elderly and specially-abled persons, while multi-specialty health camps served around 500 community members in Bhadrapara and Belakachar.

At VGCB, a two-day eye check-up camp catered to around 400 people, with free spectacles provided to address vision impairments. Additionally, essential support was extended to marginalized communities, including battery-operated wheelchairs and tricycles, enhancing mobility and independence.

Vedanta Aluminium's initiatives encompass a wide range of basic and specialized healthcare services, reaching underserved communities within and around its operational sites. Through these concerted efforts, the company continues to champion accessible and quality healthcare, embodying its commitment to social responsibility and community welfare.



Statistics

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-onyear 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.

Category	Domestic Sales	(In Nos.)
Sogmont/Subcompost	Februar	y
Segment/Subsegment	2023	2024
Total Passenger Vehicles ³	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

Domestic Sales: Monthly

² 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



		SLAM				
Segment wise Compar-	ative Production, Domes	tic Sales & Expor	ts data for the mo	nth of February 2	2024	-
					(Numbe	er of Vehicles)
Category	Product	ion	Domestic §	Sales	Exports	¢.
Segment/Subsegment	Februa	ry .	Februar	y	Februar	y
	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	2,21,965	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	4,08,422
BMW Moreodes JLR. Tata Motors and Veive Auto data is not ava	: ablo					
Seciety of Indian Automobile Manufacturers (12/03/2024)						

Summary Report: Cumulati	ius Pradustian Damosti	SIAM	, data far the perio	d of April Enhou		
Summary Report. Cumulau	we Production, Domestic	; sales of Exports	s uata for the perio	o or April-Februa	ary 2024	Report
					(Numi	per of Vehicles
Category	Product	tion	Domestic	Sales	Expor	ts
Segment/Subsegment	April-Feb	ruary	April-Feb	ruary	April-Feb	ruary
	2022-23	2023-24	2022-23	2023-24	2022-23	2023-24
Passenger Vehicles (PVs)*						
Passenger Cars	19,72,794	17,88.659	15.79,029	13,95,836	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	1,26.605	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
Viotorcycle/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	4.44.460	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_Mercedee, JLR, Volvo Auto cata is not available and Tata Motors data is available for April-December only Society of Indian Automobile Manufacturere (12/03/2024)

Statistics

1				SIAM								
Category &	Company v	vise Summa	ry Report for t	he month of I	February 202	24 and Cumu	lative for Apri	ll-February 20	124			
												Report II
												of Vehicles)
Category			luction				tic Sales				orts	
Segment/Subsegment	Febr		April-Fe		Febri		April-Fe		February		April-Fe	
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 Fvt Ltd	1 000	376	15,387	8,096	917	331	11 705	4 961	630	160	4.612	4 010
Force Motors Lto	42	142	663	1,770	60	98	577	1 582	1	-	6	3
Honda Cars India Ltd	8 535	15,990	1.06,687	1.15,566	S.086	7,142	84 726	78 513	969	5,836	19.521	30.729
Hyundai Motor India Ltd	55 4U1	67,599	5.47,478	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	66	97	1,971	.306	66	23	857	483	-	-	355	Б
Kie Molors India PvI – d	30,309	22,723	3,29,395	2,75,944	24,600	20,200	2,47 728	2,24 234	7,406	1,308	79,554	50 403
Mahindra & Maninora II.d	00.976	44,106	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 26,110	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	36 031
PCA Motors Pvt. Ltd	373	700	7,128	8,050	328	421	7.047	/ 361	-	253	-	2 588
Renault India Pyt Ltd	10 102	4,898	1.11,170	43,935	3.616	4.080	73 537	/1/214	1,537	88	29,471	10 429
SkodaAto india Fvt Ltd	4 225	2,915	51,561	42,552	3.415	2.254	47 837	41 718	118	-	405	1 402
Lata Motors Ltc.	NA	5A	4.09,173	4.17,241	NA	NA	4,08 087	4,24 350	NA.	NA.	1.766	1 998
Toyota Kirloskar Motor Pyt Ho	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 ud	5 334	7,400	62,027	8: 241	3 31	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
* Only oursuistive data is sported on or Aat-Dool NA-Not Available												

				SI.1M								
Categ	ory & Company	wise Summ	ary Report for	the month of	February 20	24 and Cum	ulative for Ap	rll-February 2	024			
												Report
												of Vehicles
Category	_		duction				stic Sales				ports	
Segment/Subsegment		uary		ebruary	Febr		April-Fe		February		April-Fe	
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24
Three Wheelers												
Atul Auto Ltd	1,810	2.253	22,392	23.717	1,837	2,120	19,998	20.912	155	180	2.397	1,999
Bajaj Auto I Id	42,749	50,547	4,35,555	5 88,043	32,849	36,331	2,65,379	4,26 055	11,538	15,155	1 72,100	1,40,706
Continental Engines Pvt Lte	202	461	5.642	5,987	297	357	5,743	5 711	-	-	-	-
Force Motors Ltd	350	200	2,802	3,743	-	-	-	-	196	14	2.660	3,640
Mahindra & Mahindra Ltd	5,196	p.225	53,493	72.105	5,350	6,158	52.823	/2 310	-	60	463	453
Plaggio Vehicles Pvt Ltd	8,137	8.518	99,465	1.02.914	5,606	7,552	75.225	91 335	(91)	1,884	23,814	11,577
TVS Metor Company Etd	\$.568	10,000	1,59,475	1 34,385	1,043	2,066	14,740	18 703	7,781	8,548	1 44 751	1,17,321
Total Three Wheelers	68.092	77,805	7,78,828	9,10,875	50,382	54,5 84	4,34,408	6,35,026	19,640	25.841	3,46,215	2,75,696
Two Wheelers												
Ather Energy Pvt. Lto	12,092	10.658	81,356	96.665	12,147	11,094	80.658	96 073	-	80	-	276
Bajaj Auto Ltd	2,54,310	2 89,192	32.65,912	33 95,589	1.15,639	1,68,727	15.49.165	20,57 314	1.15.021	1,24,157	15 42.241	18.46,457
Chelak Technology Ltd	500	2 500	5,335	11/130	2,258	1,800	4 43'	10.287				
Hero MotoCorp Ltd	3,68,953	4 41,095	47.68.044	50 86,532	3,82,017	4.45.005	46.53.083	49.61 113	12,143	23,148	1 56,140	1,69,758
Holics, Motorcycle & Scooter India Pyt 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	20,111	44.744	3 10.991	3,35,031
India Kawasaki Motors Pvt Ltd	516	247	2,878	2.615	375	. 458	3.641	· 090	-	-	-	· · ·
Incla Yamaha Motor, No Lid	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 Whice ors I to			72				68					
Okinawa Autotech Pvt. Ltd	6,166	1.094	92,650	10.139	6,726	1.244	56,273	13 557	-		76	-
Piaggic Vehicles Pvt Ltd	4,824	4.041	58,139	47.559	2,900	3.041	41.155	35 008	1,216	1.028	10.632	12,891
Royal-Enfield (Unit of Eicher Motors)	63,490	78.313	7.58,195	8 50,184	61,436	67,922	6.74.956	7.68 701	7,108	8,013	87.704	65,430
Suzuki Motorcycle Incla Pro Etd	86,054	1 00.521	5.56,178	10 24,747	52,455	83,304	5.57.687	8,34 845	18,170	14,131	1 83,100	1.95,389
Triumph Molorcycles India Pvl 1 ld	52	45	592	505	87	69	979	680				
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	28,96 518	45,624	90.308	0 40.239	6,03,860
Total Two Wheelers	13,48,669	18.29.534	1.78,82,833	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 Auto I to	452	381	2,356	4.195	107	36	620	594	345	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		14,72,078	18,94,900	1.84,69,026	2,08,64.711	2.99,934	4,08,422	43,46,049	40,20,036
Socialy of Indian America Manufacturals (12/03/2024)				2,10001000	- Irajara					.pesq rain		

				SIA.	W							
Segment & Company	wise Product	tion, Domest	tic Sales & Exp	onts Report	for the month	of Februa	ry 2024 and Cu	mulative for	April-Febr	uary 2024		
												Report III
											(Number (of Vehicles)
Category			uction			Domes	itic Sales				ponts.	
Segment/Subsegment	Febru		April-Feb		Febru		April-Feb			uary	April-Fe	bruary
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24
Three Wheelers												
A: Passenger Carrier												
Aftil Auto Lto	476	702	9.840	8,770	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	28.569	31.801	2,31,256	3.79.172	11.374	14,947	1,70,478	1.39 250
Continental Lingines Pvt Ltc	\$2	74	1,562	955	8.3	53	1,689	919				
Force Motors Ltd	350	200	2.802	3,743	-	-	-	-	196	14	2.660	3 640
Mahindra 8 Mahindra Llo	1.623	2,876	18.222	36,087	1,768	3.278	15,201	35,154		60	337	409
Piaggie Vehicles Pvt Ltd	6,132	5,897	71.204	/2,623	6.314	7,801	43.110	\$1,960	(92)	1,589	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	42,682	3,20,953	5,02,125	19,386	26,203	3,41,819	2,72,267
E-Rickshaw												
Atol Auto Lto	167	264	2,861	4,393	241	375	2,925	4,793				
Continental Engines Pvt Ltc	99	231	1.323	4,112	90	189	.342	4,010		-	-	-
Mahindra & Mahindra Lto	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												
Acul Auto Lte	1,060	986	8.769	8,232	1,160	967	3.647	7,856	4	8	118	106
Bajaj Auto Lto	3.923	4,741	35.304	48,793	3.96C	4.530	34,623	46.083	192	203	- ,622	1 456
Continental Engines Pvt Ltc		137	2,826	709	123	-88	2,696	589		-	-	-
Mahindra & Mahindra Lto	1,020	1,844	12.912	14,933	1.141	1,722	13.204	14,812		-	126	44
Piaggio Vehicles Pvt I to	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	1.681	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	\$6,6 79	99,864	254	638	4,396	3,439
E-Cart												
Acul Auto Lto	107	301	1.102	1,822	121	250	1,045	1.697		-	-	-
Commental Engines Pvt Ltc	·	19	31	211	1	17	36	193		-	-	-
Mahindra & Mahindra Lto	300	247	1.922	1,374	157	213	1,749	1.552		-	-	-
Total E-Cart	407	567	3,055	3,407	279	460	2,830	3,442	-	-	-	-
Total Three Wheelers	68,092	77,805	7.78,828	9,10,875	50.382	54,584	4,34,408	6.35,026	19,640	25,841	3,46,215	2.75,696



.

Segment & Comp	any wise Produc	tion, Domest	tic Sales & Eng	oorts Report	for the mont	h of Februa	ry 2024 and C	umulative for	April-Febr	uary 2024		
												Report III
												of Vehicles)
Category		Prod	luction			Domes	stic Sales				porte	
Segment/Subsegment	Febr		April-Fei	bruary	Febru	lary	April-Fe		Febr	uary	April-Fe	ebruary
Manufacturer	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24	2023	2024	2022-23	2023-24
Passenger Vehicles (PVs)												1
A: Passenger Cars												1
Londa Cars India Ltd	9,245	7.705	1.00 607	75.643	6.026	3.958	79,785	49,148	854	2.328	18,876	23,654
Hyundai Motor India Ltd	30.365	29.65C	3.43 639	3 35,364	24,493	16,811	2,42,435	2,09.208	5,822	8,756	89,611	1,25.264
Mahindra & Mahindra Etd	-	-	-		-	-	214	-	-	-	-	- 1
Maruti Suzuki India Ltd	1.18.357	1.04.453	12.68 320	11 24,686	1,02,565	86,890	10,25,835	8,98,183	13,468	16,839	1,84,080	1,79.317
MG Motor India Pvt Ltd	-	NA	-	0.052	-	W)	-	1,914	-	-	-	- 1
Nissan Motor India Pvt Ltd	4,425	3.950	44 318	30,201	-	-	-	-	3,765	2,204	42,490	29.741
Renault India Pvt Ltd	2.683	90C	29 116	10.766	1,758	823	18,215	9,240	543	79	8,850	3,791
SkodaAuto India Pvt Ltd	1,777	915	26 165	16,437	1,446	1,028	23,500	17.885	-	-	-	22
Tata Motors Ltd*	NA.	N/A	1.35 198	141.704	N/A	WA	1,35,177	1,41,971	MV.	NO.	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	40.589	1,563	1,631	16,574	19,247	755	1,136	17,408	25,430
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	13,96,835	25,207	31,440	3,72,497	3,91,631
B: Utility Vehicles (UVs)												1
EGA India Automobiles EVI Etd	1,000	376	15 387	8,096	917	331	11,765	4,981	630	16D	4,612	4,016
Force Motors Ltd	42	142	663	1.770	60	କ୍ଷ	677	1,682	1	-	8	Э
Honda Cars India I to	390	8,281	5 880	42,923		3,184	4,941	30,385	115	3,610	643	7,075
Hyundai Motor India Ltd	25.036	37.749	3.03 639	3 60.845	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	Б
Kia Motors India Pv1 Ltd	30,309	22.723	3.29 399	2 75,944	24,600	20,200	2,47,728	2,24.234	7,400	1,300	79,554	50,403
Mahindra & Mahindra I td	30,858	44,076	3,27 872	4 32,3\$6	36,221	42,401	3,20,985	4,19,233	1,373	540	9,600	10,354
Meruti Suzuki Indie Ltd	26.651	56.672	3.47 123	5 29,528	33,550	61,234	3,29,075	5,83.890	3,353	10,967	41,712	68.927
MG Motor India Pvt Etd	4,327	4 572	49 857	40.920	4,193	3.039	42,315	38,909			17	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	700	7 129	8.050	328	421	7,047	7,381		253		2,658
Renault India Pv1 Ltd	7.439	3.918	82 054	33,169	4,858	3,252	55,322	31.974	994	10	20,591	6.638
SkodaAuto India Pv. Etd	2,448	2.000	25 396	26.115	1.972	1.225	24,337	23,550	116		408	1,350
Tata Molore Ltd*	NA .	NA	2.70 261	2 75,147	NA.	VA.	2,68,570	2,73.974	NA	VA.	1,535	515
Toyota Kirloskar Motor Pvt Eld	22,419	33.449	1.42 449	0 18.469	11.033	18,502	1.17,508	1,70,544	347	1.S20	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	17,57,158	22,11,831	19,512	21,819	2,18,478	2,10,638
C: Vans												1
Mahindra & Mahindra Etd	· 20	9C	2 353	240	137	-	2,057	13	35	20	50	231
Maruti Suzuki India Ltd	11,430	13.218	1.20 538	1 32,599	11,352	12,147	1,19,195	1,25.120	105	764	318	6.906
Tata Motors Ltd*	NA	N/A	3 714	90-	N/5	W/	4,340	5,405	MA.	NG.	50	30
Total C: Vans	11,550	13,248	1,25,505	1,32,929	11,489	12,147	1,25,593	1,33,535	14Q	784	4.57	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	5,81,432	6,09,505
* Criry cumulative cate is available for Apr-Dec 👘 NA .	Net Available											1

				SIA								
Segment & Company	wise Produc	tion, Dome	stic Sales & E	xports Report	for the mon	th of Februa	ary 2024 and (Sumulative for	April-Fabr	uary 2024		Report III
											(Number	of Vehicles)
Category		Dec	duction			Пото	stic Sales				ports	OI VEIIICIES)
Segment/Subsegment	Febr			ebruerv	Febr			ebruary	Eobr		April-February	
Manufacturer	2023	2024			2023	2024	2022-23	2023-24	2023		2022-23	2023-24
Two Wheelers			2022-20						2020	2021	2022-20	2020-21
A: Scooter/ Scooterettee												
Ather Energy Pvt. Ltd	12.092	10.658	81,356	\$6.660	12.117	11 094	80,658	96.073	-	80		276
Dajaj Auto Lid	2.027	4.200	29,904	1.07.127	382	13 620	28,359	1.03.763			5	74
Chetak Technology Ltd	500	2,500	5,325	11.130	2.296	1 800	4,431	19.267		-	. `	-
Here MotoConp _td	24,714	31.928	3 40.296	3.09.881	22,152	30 387	3.27.291	3.71.010	454	1.006	0.654	26.074
Honds Motorrycle & Scooter India Pyt 1c	1,53,959	2.55.316	23 78,400	25,56.365	1.59.127	2.29 783	22,33,120	23.51.557	13.365	28.008	1.73 664	2 15,313
India Yamaha Motor Pol Ltd	10,380	23.600	1 92.628	2,92,216	8,186	20 774	1.69.4 8	2.53.714	1.212	3.932	28 735	34,081
Okinswa Autotech -Vt. Ltd	6.165	1.094	92,650	10.139	5.726	1 244	96,278	13.557	1.2.12	0.002	73	01,001
Piangio Vehicles Pvt Ltc	4.824	3.018	58,139	47.050	2.900	3 036	41,140	35.002	1.210	1.232	16 632	12,455
Suzuki Motorovce India Pvt Hd	74 061	88 452	7 27,499	8,73,033	50.486	61 460	6,39,449	8 05 219	8,958	5,060	74 073	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	7.956	72 168	1 06,226
Total A: Scooter/ Scooteretiee	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		91931104	<i>b</i> i ji i i i i i i i i i i i i i i i i i	001121000	01011001	01101010	in the appears	detraitie	001010	111001	ale do ti	11001100
Bajaj Auto _ld	2,52,263	2.74.906	31 76.008	32,85,482	1,17,657	1.55 107	16.20,808	19,53,551	1,15,321	1.24.157	15.42 236	13 46.383
Here MataCorp _td	3.44.139	4.09.167	44 27.748	46.86.151	3,60,165	4.14 768	43,25,772	45,90,094	11.689	22.052	1.47 486	1 43,684
Honda Motorcycle & Scooter India Pvt Lto	31,496	2,05,996	17 09.029	19,55,105	37.957	1.04 184	15.94,865	15,20,400	6,746	16,736	1.37 927	1 19,715
India Kawasaki Motors Pyt Ltd	516	247	3,848	2.615	375	458	3,641	4.090	-	-		-
India Yamaha Motor PvI Ltd	46,220	55.44C	5 87.205	5,57,168	31.211	35 764	3.55,555	3,82,611	14.482	17.941	2.32 688	1.05,126
Mahindra Two Wheelers to			72									
Piaopio Vehicles Pvt Ltc	-	423	-	509		5	9	6	-	396		436
Royal Enlicid (Unit of Eicher Motors)	63,490	76.313	7 58,195	8.50,154	64,436	67 922	6.74,958	7,65,751	7,108	5,013	57 704	68,430
Suzuki Matorcysle Incia Pvt Ltd	1:.973	14.369	1 28,679	1,51,714	1.969	1 844	18,238	26.626	9.212	9.071	1.09 822	1 21,728
Triumph Motorcycles India Pyt Ltd	52	45	598	606	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	4,44,450	35.346	41.059	4.04,753	4,40,936	612	576	3 528	2,232
Total C: Mopeds	35,705	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	31,31,299
Quadricycle												
Bajej Auto Ltd	452	331	2,356	4.190	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	16,94,900	1,64,69,026	2,08.64,711	2.99,934	4.08,422	43,46,049	40,20,036
Supey of Incian Autor dole Marcíacuners (12/08/2021)												

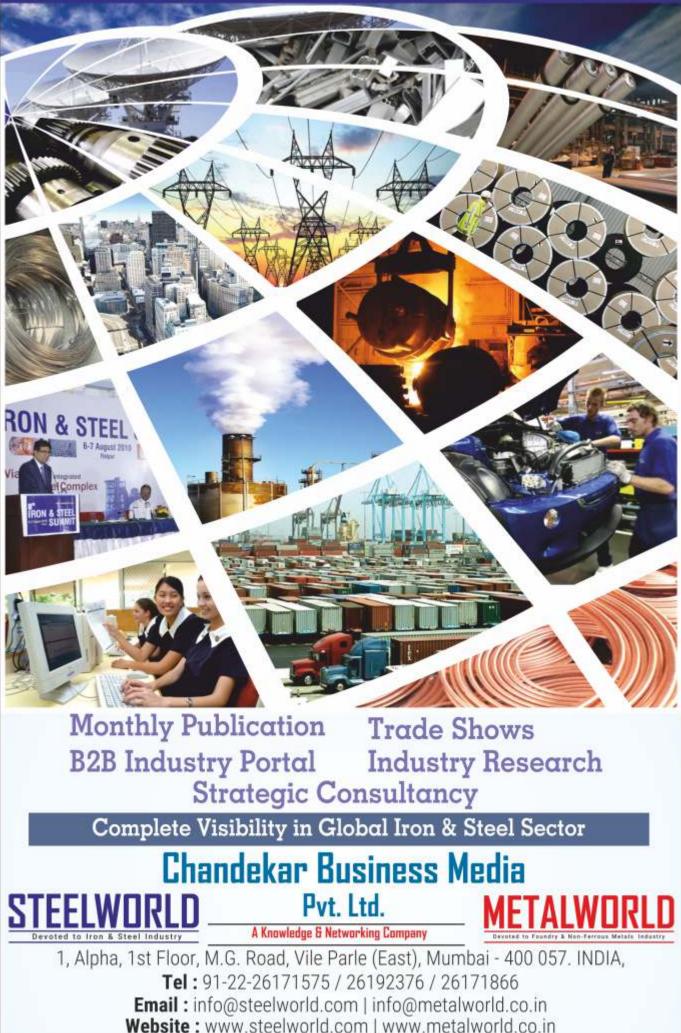
Statistics

.

				SI.4M								
Sub-segment & Company v	vise Producti	on, Domest	ic Sales & Exp	orts Report f	or the month	h of February	2024 and Cur	nulative for A	pril-Februar	ry 20 24		
												Report IV
											(Number)	of Venibles)
Category		Pro	duction			Domes	tic Sales			Ext	wrts	
Segment/Subsegment	Febru	<u>дагу</u>	April-Fe	bruary	Febr	ruary	April-Fel	bruary	Febru	Jary	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)												
A : Passenger Cars - Upto 5 Sests												
Micro :Seste upto-4, Length Normally <3200 mm. Bod	ly Style-Halch	iback, Engli	ne Displaceme	nt Normally u	ipito 0.8 Litra	2						
MG Motor India Pvt Lto (Cornet EV)	-	AA.	-	3,052	-	NA NA	-	1914	-	-	-	-
Total Micro	-	-	-	3.052		-	-	1,914	-	-	-	-
Mini :Seats upto-5, Length Normally <3600 mm, Body 3	Style-Hatchba	ack, Engine	Displacement	Normally up	to 1.0 Litre							
Maruti Suzuki India Eld (Alto Spresso)	20.295	13 591	2.67.848	1 58,255	21.075	14,782	2 21,329	1.39 265	2,620	1.720	39,777	29 500
Ronal, t India Pyt Ltc (Kwid)	2.653	080	29,110	10,765	1 758	825	18.215	9.240	543	70	6,850	2 701
Total Mini	22.961	14,671	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 upto-5, Longth, Normally between 360												,
Honea Cars Inclail (d. (Amaze,Jazz)	4 925	2 359	49,657	35,030	4 123	2,774	47 440	33.338	54	36	992	844
Hyandai Motar India HJ (Aura Grand i10,i20 Sanua,Xcent	25,139	24 46B	2,89,881	2 58,432	24 446	15,131	2 76 422	1,30 895	3,579	5,281	81,914	74 837
Maruti Suzuki India Ltd (OEM Medel# Baleno Colorio, Dz 1	97,274	86 397	9.67.819	9 40,175	75 690	71.627	7 91, 197	7.58 171	9,776	14.274	1 32, 149	1.35 839
Tate Motors Ltd* (Altroz, Tiago, Tigor)	N.A.	NA.	1,35,193	1 41,704	N-A	N.A.	35,177	1.4 971	NA.	NA.	50	. 38/
Toyota Kirleakar Mater Pvt Lte (Glanza)	_		1,00,100		4 223	1.581	36.491	1/ 9/3	-		-	
Valkawagen India PM Etd (Pala)	-		874		-		(53		-		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 betwee										10,001	1,00,000	2,10,000
Mahindra & Mahindra Ltd (Verito)			, athe occan	-			214		-		-	
Total Super Compact	_		_			_	214					
Mid-Size: Seals upto-5, Length Normally between 4250	1 - 4500 mm 1	Body Style	Roden/Felsio/	Hateb/Notebh	eck Enging	Displacontre		do 16 Lilm				
Hones Cars incla 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
Hvundai Motar 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 Suzu di India Etd (Ciaz)	755	1485	24.653	20,223	792	47-	10.310	9747	1.072	945	12,154	S 940
Nissan Motor India Pyt Ltd (Sunny)	4.425	2 350	44.313	30,201		40	13.310	V 1-1	3,755	2.204	43,490	29 741
Volkawagan India Pvl Ltd (Vanto,Vintus)	2.915	4 532	31,483	18,589	1 563	1.631	15.621	19.247	755	1,136	19,315	22 37/
Total Mid-Size	14.874	19,249	2.05,362	2,18.528	4.366	4.974	77.490	73,108	B.605	10,050	1,27.540	1,41,312
Executive :Seats upto-5, Length Normally between 450									0,000	10.000	1,21,940	1,41,012
Skeca/uto Incla Pvt Ltd (Octavia Stavia)	1 707	, boury organ 915	24,516	18,437	1 356	1,028	72 085	17.734				22
Total Executive	1,707	915	24,516	16,437	1.356	1.028	22.065	17,734				22
								17,734	-	-	-	22
Premium :Seats upto-5, Length Normally between 470 SkocaAuto India Pyt Ltd (Supero)	u-suuumini. I o	DOGA 2016	-5808N/ESTBLE! 1,649	s, Enquine Dis; -	9iacement M 90	ionnany upto I	3 Litre 1.465	131				
									-	-	-	-
Toyata Kirleskar Mator Pvt Lte (Camry)		249 249	8/4	2,217	67 157	210	391	2 117	-		-	
Total Premium	146 De de Chelle (2,523	2,217		210	2,326	2,246	-		-	-
Luxury :Seats upto-5, Length Normally Over 5000 mm,	BODY Style-S	sedan/Estai	es, Engine Dia	splacement N	ormany upto							
Hyundai Motor India Ltd (Othor)		-	-	-	-	2	-	s	-	•	-	-
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
* Only currulative data is available for Apr-Dec 👘 NA-tNo. Available				COUNTRACTORY (VITO IS SUITE	Model a tepo leo	by Marcti Suzuki	nd & Linited				

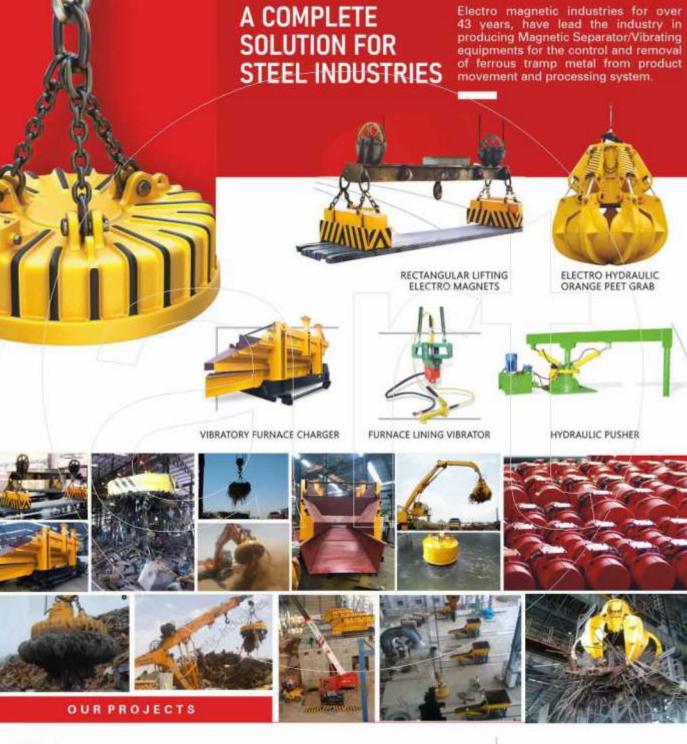
				SI4M								
Sub-segment & Company w	ise Producti	on, Domesti	ic Salee & Exp	orte Report fo	or the month	of February	2024 and Cun	ulative for A	pril-Februa	ry 2024		Report IV
											(Number o	reput tv
Category		Prot	luction			Domest	ic Sales			Екр	orts	
Segment/Subsegment	Fabri		April-Fet	bruary	Febru		April-Fel	bruarv	Febr		April-Fel	ruary
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 of	offroad capal	bility ; Gene	rally ladder on	frame ; 2 b0:	x : 5 Seats or	more but up	ito 10 Scats.					
UVC : Length < 4000 mm & Price <20 Lakhs												
Honda Cars India Eld (WR-V)	390	-	5,860	-	-	-	4,941	-	115	-	643	288
Hyundai Motor India Etd (Extor:Vonuo)	0,411	19 120	1.15,315	1,05 520	0.997	16.615	1 10.520	1,82,107	1.021	727	7 402	11.535
Kia Motors India Pvt Ltd (Sonet)	12,495	9 237	1.12,540	1,02773	9.856	9,102	85.419	/2,634	3.117	135	26 688	30.495
Mainindra & Mahinera Ltd (Bolero, Kuv100, Thar, Xuv300 XI	15,246	21.273	1.93,740	2,22 070	18,595	20,752	1 89,257	2,19,468	486	259	6 052	4,328
Maruli Suzuki India II.d (OFM Model # Brezzel Franx, Jim	15,924	34 967	1 50,501	3,31,060	15,757	30,255	1 29,435	2,94,173	26	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	27,443	114	958	9 023	6,574
PCA Motors Pvt_Ltd (C3.EC3)	373	205	0,892	C 094	324	294	0.795	5,702	-	7	-	2.547
Rehault I to a Pvt Ltd (Kigar, Triber)	7,439	3 9 18	82,054	33 169	4.858	3,252	55.522	31,874	994	10	20 581	6.638
Tata Motors Ltd* (Nexon, Punch)	NA	NA	2,29,059	2,42,881	NA.	5.8	2 27,639	2,42,175	NA .	NA.	1.530	514
Tayota Kinoskar Motor Pvt Ltd (Diban Cruiser)							22,155					
Total UYC	67,109	92.672	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												-
Force Motors Ltd (Curkha)	42	1	657	1ម	60	-	677	-	1	-	é	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	3 101	:92	24 857	3,547
Kia Motors India Pvt Ltd (Soltos)	10,202	7 020	1.40,505	1,06 079	0.012	6.265	90,575	92.611	3,561	560	45 022	12.358
Marufi Suzuki India Ltd (GEM Model # Ertigs, Grand Vitara	5,608	17 225	1.31,736	1,65 381	15.655	26,521	1.64.965	2,44,808	3.357	4,065	T1 436	35.579
MG Motor Inc a Pvt Ltd (Astor)	991	1 274	15,919	3 336	1.020	r,036	14,450	9,298		-	-	-
Nissan Metor India Pvt Lte (Kieks)			1,246		•		1,065	-	3		65	15
PCA Maters Pv., 1td (C3 Aircross)		235		1 980		127		1,573		133		141
SkodaAuto India Pvt Ltd (Kushaq)	2,205	1 683	24,046	22 7 9 1	1.753	1,107	23.546	22.102	118	-	406	1.350
Toyota Kinoskar Motor Pyt Ltd (Model Manufactured for th	14,190	21 092	65,646	1,91 026	3.307	6,331	19.565	48,236	3/7	1,920	510	15.320
Volkswagen India Pvt Ltc (Taigun)	2,270	2 9 1 9	28,700	30 /20	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	hs											
Hyundai Motor India Ltd (Alcazar)	2,391	1 959	34,494	29 705	1.559	1.200	24,177	-9.303	206	525	10 169	0.550
Kis Motors India Pvt Ltd (Careira)	7,219	6 / 63	71,963	67 122	6.249	4,832	64.212	58,430	738	605	7703	7.522
Mahindra & Mahinera Ltd (Marazze, Scotolo, Xuv500, Xuv7	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 I di (XL6)	2,119	4 890	34,855	43.087	2/108	4,082	34,659	40,625	1	50	14G	584
MG Motor Incla Pvt Ltd (Hostor)	2,330	3 043	24,941	28.051	2,558	1,826	21,470	25,648	-	-	12	-
Tata Motors Ltd" (Harrior Safar)	N.A	NA	41,202	32 500	. NA	NA	40.931	31.795	44	NA	C	1
Total UV2	26,671	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 nim & Price <20 Lakhs		r							,			
Lorce Monris Ed. (i.ex)		104	(4)	1.716		S1		1,675				1
Isuzu Motors India Pvt Etc (Fi-Lander, V-Cross)	65	-	1,925	56	63	-	607	365	-	-	366	8
Toyota Kinoskar Motor Pyt Ltd (Innova Orysta, Innova Hyd	4,927	8 970	47,579	89 110	4,171	8.481	47.499	88.28C		-	-	-
Total UV3	5,002	8,460	49,500	90,682	4,234	8,572	48,105	90,320		-	355	7
* Only cumulative details available for Apr-Dep 👘 NAHKet Available	4	One preclaim	гурсаге об СЕМ М	ode is epicied o	, Maruti Šuu ki m	kla Linited	-					







www.electromagneticindia.com



A COMPLETE



Corporate office & Works : Plot No: 1, Unit: 2, GIDC Industrial Estate, Por-Ramangamdi, Vadodara 391 243, Gujarat, India

佳 www.electromagneticindia.com

sales@electromagneticindia.com

\$+91-937-621-9322 +91-982-502-8823 \$+91-932-724-5492

REPRESENTATIVES / AGENT REQUIRE FROM ALL OVER THE WORLD



TECHNOLOGICAL PERFECTION | GLOBALLY WITH RELIABILITY | EXPERIENCE AND EXPERTISE

0