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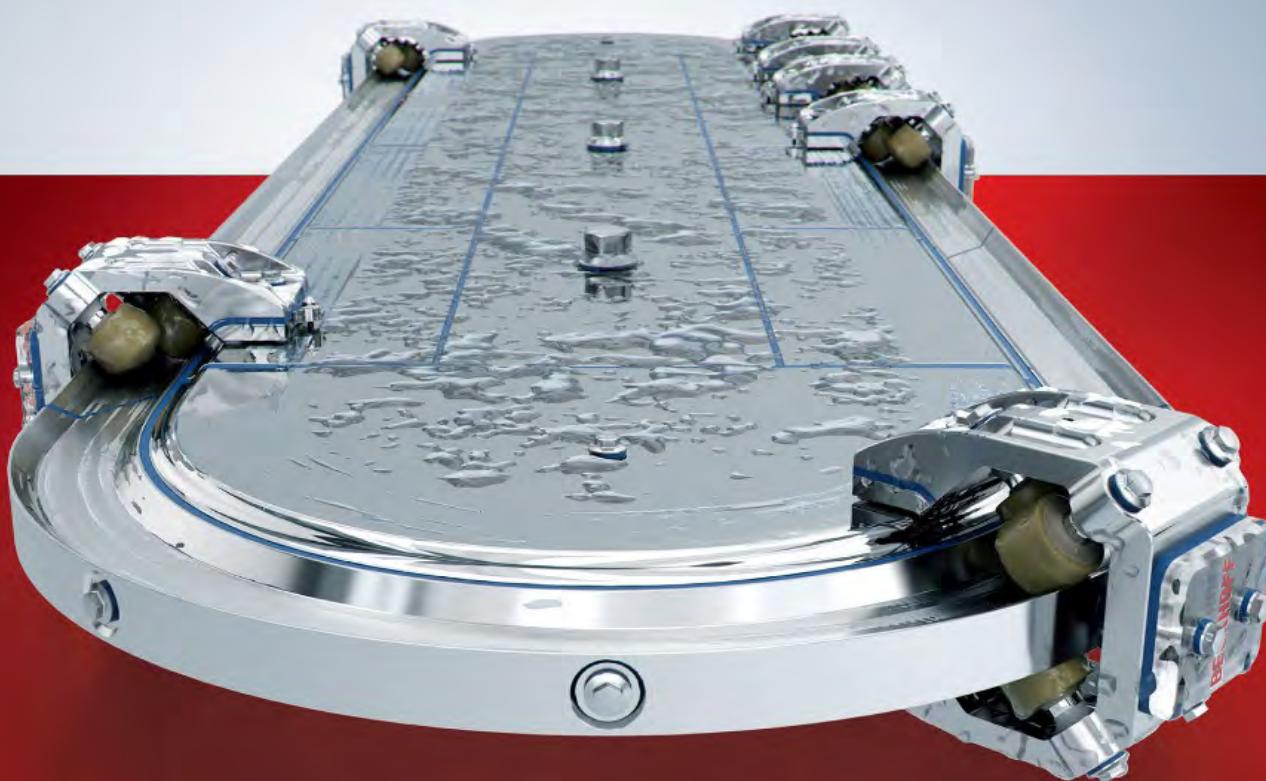
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The chemical and petrochemical market in India is currently value US\$ 178 billion

Our Mumbai Bureau

India ranks as the sixth largest chemical producer globally and is the third largest in Asia. It holds a prominent position among the top three nations in basic chemical production worldwide. The chemical and petrochemical market in India is currently valued at approximately US\$ 178 billion, and projections indicate it could expand to reach US\$ 300 billion by 2025. The sector is a significant employer, supporting around 2 million jobs in the country. India is the 14th largest contributor to global chemical exports (exclud-



ing pharmaceuticals), accounting for 2.5% of global chemical sales. Chemical manufacturing in India is primarily concentrated in the states of Maharashtra and Gujarat, with other major production hubs in West Bengal and Tamil Nadu. The Indian chemicals industry is highly diverse, encompassing a vast array of over 80,000 commercial products. It can be broadly categorized into bulk chemicals, agrochemicals, specialty chemicals, polymers, petrochemicals, and fertilizers. In the agrochemical sector, India ranks as the fourth largest producer, manufacturing more than 50% of technical-grade pesticides globally. Additionally, India is the third largest consumer of polymers worldwide. The nation is renowned as a prominent global dye supplier, exporting its products to over 90 countries, contributing to approximately 16% of the world's dyestuff and dye intermediates production. India is a significant player in the global chemical industry, and it engages in both imports and exports of various chemical

products. Export of Indian chemicals is the leading chemical-exporting nations worldwide, with a diverse range of products that include inorganic and organic chemicals, tanning and dyes, agrochemicals, plastics, synthetic rubber, and filaments. In the fiscal year 2022-23 (up to August 2022), the exports of chemicals and petroleum products from India reached a significant value of US\$ 8.24 billion. This remarkable surge in chemical exports can be attributed to the sustained efforts of the Department of Commerce & Industry and Indian exporters. The Chemical Export Promotion Council of India (CHEMEXCIL) has played a crucial role by utilizing grant-in-aid under the Market Access Initiative Scheme. They have organized B2B exhibitions in various countries, explored new potential markets through product-specific marketing campaigns in collaboration with Indian embassies, and provided financial assistance for statutory compliance and overseas product registration, among other ini-

tiatives.

Notably, this export growth has been achieved despite challenges such as high freight rates and container shortages. It has particularly benefited small and medium-sized exporters, primarily located in key states like Gujarat, Maharashtra, Karnataka, Tamil Nadu, and Andhra Pradesh. In the fiscal year 2021-22, India's total exports of chemical products reached a value of US\$ 24,313.88 million, marking a substantial year-on-year increase of 38.67%. This surge in chemical exports can be attributed to the increased shipments of organic and inorganic chemicals, agrochemicals, dyes and dye intermediates, and specialty chemicals. As of September 2022, the organic and inorganic chemical exports from India were valued at US\$ 2,332.92 million, further highlighting the country's prominent position in the global chemical export market.

India exports chemicals and chemical products to a wide array of more than 175 countries, with key export destinations including China, the USA, Brazil, the Netherlands, Saudi Arabia, Indonesia, the UAE, Japan, Germany, and others. Additionally, the industry has expanded its reach to markets like Turkey, Russia, and Northeast Asian countries, including Hong Kong, Japan, Korea RP, Taiwan, Macao, and Mongolia. In the fiscal year 2020-21, China emerged as the largest importer of chemicals from India, with imports valued at US\$ 2.4 billion, followed closely by the USA, which imported US\$ 2.2 billion worth of chemicals. Notably, chemical exports to Brazil also saw substantial growth, reaching US\$ 1.3 billion, marking a 31%

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Mr. Priyadarshana v. Kumar

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Sharad Pawar met with Maharashtra chief minister Eknath Shinde at the Sahyadri Guest House in Mumbai

Our Mumbai Bureau

The meeting assumes significance as it comes a day after Chief Minister Shinde echoed Union Home minister Amit Shah's remark, calling Pawar the 'mastermind of corruption'.

Nationalist Congress Party (SCP) chief Sharad Pawar met Maharashtra Chief Minister Eknath Shinde in Mumbai on July 23. The meeting between the two leaders is crucial ahead of the Maharashtra assembly elections scheduled later this year.

Pawar discussed issues pertaining to irrigation, milk prices and sugar factories during the meeting, held at the state government guest house Sahyadri in Malabar Hill area, an official said.

The meeting assumes significance as it comes a day after Chief Minister Shinde echoed Union Home minister Amit Shah's remark, calling Pawar the 'mastermind of corrup-



tion'. The CM urged the opposition Maha Vikash Aghadi (MVA) to reflect on their actions.

"They (the opposition) are speaking about corruption. The biggest kingpin of corruption in Indian politics is Sharad Pawar and I have no confusion in that. What will they accuse us of now? If somebody has done the job of institutionalising corruption, Sharad Pawar, it is you," Shah said while addressing BJP workers and supporters at a conclave in Pune.

Reacting to Amit Shah's remarks, Sharad Pawar's daughter Supriya Sule said that she laughed at the statement considering that he is part of the same government who had presented the Padma Vibhushan to the NCP(SCP) supremo. Sule said that 90 per cent of people accused of corruption by the BJP are now part of the BJP.

"I laughed hearing this because it was the same Modi government which Amit Shah ji is also part of, not the NDA government now but

the previous Modi government that awarded Sharad Pawar with Padma Vibhushan," Sule said while speaking to ANI on Sunday.

Maharashtra Assembly Polls later this year

Maharashtra is going to polls in October-November. Last week, NCP chief Sharad Pawar sounded a poll bugle and said that the opposition MVA will comfortably win the election to the 288-member Maharashtra assembly.

The meeting also comes days after four leaders of Ajit Pawar-led NCP quit. Earlier, Sharad Pawar said that those who wanted to "weaken" his party would not be taken in, but he would accept leaders who would not "hurt" the party's image.

"Those who wanted to weaken the party would not be taken in. But those leaders who would help strengthen the organization and not hurt the image of the party would be taken in," Pawar had said.

Hyundai Alcazar SUV spotted testing again in India: What all to expect

Our Mumbai Bureau

Korean auto giant Hyundai is preparing to unveil an updated version of its popular three-row SUV, the Alcazar, in the near future. This refreshed model is set to make waves with a design overhaul inspired by the newly launched Hyundai Creta.

The facelifted Alcazar will feature prominent updates to its front and rear styling. As per HT Auto, recent spy photos reveal that the SUV will adopt a connected LED daytime running light strip similar to the Creta, accompanied by split headlamp units. The grille will showcase a new design with horizontal slats, and the bumper will be reworked to house

the radar sensor for the upcoming advanced driver-assistance systems (ADAS).

Reportedly, the side profile of the Alcazar will likely maintain its classic look but will be enhanced with new alloy wheel designs to boost its visual appeal. At the rear, a connected LED light bar and updated badging will complete the SUV's refreshed appearance.

Inside, the 2024 Hyundai Alcazar is set for a significant upgrade. To stay competitive, Hyundai is expected to introduce a dual-screen setup for both the infotainment and instrument cluster, following the trend set by the new Creta. This modern upgrade is likely to enhance the cabin's overall ambiance.

In terms of technology, the Alcazar facelift will likely come equipped with a Level 2 ADAS suite, featuring advanced safety and convenience features such as adaptive cruise control and lane departure warning. Comfort will also see improvements with the inclusion of a dual-zone climate control system. The SUV will continue to offer a panoramic sunroof, 360-degree camera, ventilated front seats, and wireless charging.

Under the hood, the facelifted Alcazar is expected to retain its existing engine options, including three



1.5-liter engines: naturally aspirated petrol, turbocharged petrol, and diesel. Transmission choices will likely remain the same, offering a six-speed manual, seven-speed dual-clutch automatic, and six-speed torque converter automatic. 3.6 Crore Indians visited in a single day choosing us as India's undisputed platform for General Election Results.

Saudi Arabia's Vision 2030 fuels order books of India's infrastructure companies

The ties between the two nations have undergone a significant transformation in recent years. The current investment boom by Saudi Arabia has benefitted from the ties and from the fact that Indian companies had set shop in the region in time to capture the potential.

Our Mumbai Bureau

S

Engineering major Larsen & Toubro has seen a surge in orders from Saudi Arabia, which now accounts for 80-90 percent of its overseas orders. Other engineering, procurement and construction companies have bagged jobs too for infrastructure, hydrocarbon, and construction projects.

Last week, the Federation of Indian Chambers of Commerce and



Industry took a delegation of chief executive officers to Saudi Arabia, where more than 500 Indian companies are operating, with investments of more than \$2 billion. Saudi Arabia's investments in India exceeded \$3.3 billion in various economic and

commercial sectors.

During their visit, FICCI secretary-general SK Pathak highlighted that Indian companies are playing a large role in the development of Saudi Arabia's Vision 2030, especially for projects in NEOM, the ur-

ban area being built in the country.

"This is just the beginning," Pathak said. "The entire NEOM city is phased over a trillion dollars. Indian companies will get a large share of that."

Mahindra Logistics appoints Sanjay Gawde as SMP



Sanjay Gawde
will hold the designation as SMP
from October 1, 2024.

Our Mumbai Bureau

The shareholders of Mahindra Logistics received the company's notice of retirement of Edwin Lobo as the head of human resources, administration and SMP. Sanjay Gawde will hold the designation as SMP (Senior Management Personnel) of the organisation from October 1, 2024, and head of Human Resources and Administration.

Edwin Lobo, who is presently employed, has decided to retire early on September 30, 2024, citing personal obligations.

Sanjay Gawde has been appointed by the board of directors to spearhead the company's administration and manage human resources. Besides the routine operations of HRM, he has some exposure in ITeS manufacturing consulting, financial services, and industrial relations activities.

He has also worked in rewards and talent management. The experienced expert has also held the positions of the Head of Group Talent Management and Group Rewards with organisations such as Mahindra & Mahindra Limited and John Deere.



(Continue page from 3)

increase from the US\$ 1.0 billion recorded in 2019-2020. China primarily imports dyes, dye intermediates, and organic chemicals from India, while the USA remains the largest importer of essential oils and inorganic chemicals. Brazil leads in importing agrochemicals from India, and India's exports of Cosmetics, Soap & Toiletries to the USA surpass those to other key export destinations. According to provisional data for 2021-22 provided by CHEMEXCIL, the top 25 countries have shown impressive growth in their imports of Indian chemical products compared to the 2020-21 period. The USA, with exports valued at US\$ 3.6 billion, recorded a remarkable growth rate of 59% over 2020-21, making it the largest contributor to India's overall chemical exports at 17.73%. China followed closely with a 12.7% contribution, and Brazil accounted for 8.52% of India's chemical exports.

Import of Indian chemicals

The chemical industry plays a pivotal role in various sectors of the Indian economy, serving diverse purposes ranging from manufacturing to research and development. In 2017, this



industry made a significant contribution, constituting approximately 4% of India's Gross Domestic Product (GDP).

Moreover, chemicals accounted for nearly 8% of the country's export earnings and facilitated the creation of over 1 million jobs. Currently, several ongoing and planned projects indicate a promising future for this sector. The chemicals and petrochemicals sector in India serves as a crucial cornerstone for the manufacturing industry. Notably, the Indian chemical industry contributes to one-third of global exports, comprising 50% of India's total exports and contributing 2% to worldwide export revenues. This industry serves as a substantial driver of economic activity and is a vital component of India's export portfolio.

India holds the fifth position globally in terms of its demand for chemicals, making it the world's second-largest consumer of chemical products. In 2020, India ranked as the second-largest consumer of caustic soda in Asia and stood at the seventh position on a global scale. According to the World Trade Report, the most widely consumed chemicals in India are soda ash, accounting for 40% of consumption, followed by caustic soda at 38%, and hydrochloric acid at 12%. In 2021, India's chemical production reached 23.98 million metric tons, and the country earned \$7.1 billion from chemical exports. Notably, a significant portion, 60%, of these exports were directed towards the European Union (EU), Japan, and SAARC (South Asian Association for Regional Cooperation) countries. By comparison, in 2016, India's chemical exports accounted for 22% of the global total, amounting to \$36 billion, while China's share was much higher at 72%. India imports a variety of chemical products, including petrochemicals, pharmaceuticals, plastics, and pesticides, from major global markets such as China, Japan, and European Union (EU) countries.

- Increasing global emphasis on sustainability and green practices requires Indian chemical companies to adopt environmentally friendly processes and products, which can be challenging and costly to implement. To overcome these challenges, Indian chemical companies often invest in research and development, improve their infrastructure and logistics capabilities, engage with relevant government agencies to address regulatory issues, and explore new markets for their products. Additionally, international collaborations and partnerships can help Indian chemical companies stay competitive in the global market.

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Union budget 2024: FAME II funding slashed by 50% Union budget sparks concerns for India's EV future

Our Mumbai Bureau

Finance Minister Nirmala Sitharaman has proposed reducing the FAME II budget allocation for FY25 to ₹2,671 crore, down from ₹5,172 crore in the FY24 Budget. The revised estimate for FY24 stands at ₹4,807 crore. This move could impact India's electric vehicle sector.

This follows last year's increase, where the FAME II allocation was nearly doubled from ₹2,900 crore in FY23. Initially launched in 2015 with a budget of ₹895 crore, the FAME scheme has seen various adjustments, with FAME II receiving ₹10,000 crore

from 2019 to 2022.

The current allocation is intended only to cover the remaining liabilities of FAME II, which expired in March and will not fund new initiatives. The focus of FAME II has been on supporting electric public and shared transportation, including 7,090 e-buses, 5 lakh e-3 wheelers, 55,000 e-passenger cars, and 10 lakh e-two wheelers. In FY24, the FAME-II scheme incentivised 8.94 lakh EVs, including 8.04 lakh two-wheelers, 76,200 three-wheelers, 12,400 four-wheelers, and 4,600 buses. Since 2019, a total of 1.32 crore EVs have received incentives under FAME-II.



Opinion: Amid Gaza war, PM Modi's visit to inaugurate temple in UAE is significant

Prime Minister Narendra Modi is scheduled to visit the UAE on February 13 and 14 to inaugurate a Hindu temple in Abu Dhabi, built by the Bochasanwasi Akshar Purushottam Swaminarayan Sanstha or the BAPS society.

Our Mumbai Bureau

The Middle East right now is in a precarious position. The war in Gaza despite numerous appeals from the UN and other nations remains ongoing. Qatar and Egypt continue to engage in talks for a ceasefire, while US Secretary of State Antony Blinken visited Riyadh to hold talks with Saudi Arabia. Amid this, Prime Minister Narendra Modi is scheduled to visit the UAE on February 13 and 14 to inaugurate a Hindu temple in Abu Dhabi, built by the Bochasanwasi Akshar Purushottam Swaminarayan Sanstha or the BAPS society. This visit comes

less than a month after UAE President Mohamed bin Zayed Al Nahyan visited India as the Chief Guest for the Vibrant Gujarat Summit in Gandhinagar on January 10.

This trip will be PM Modi's seventh visit to the UAE since August 2015 and comes merely two months after his last visit for the COP28 Climate Summit to the UAE since August 2015 and comes merely two months after his last visit for the COP28 Climate Summit hosted by the UAE in December 2023. Apart from inaugurating the BAPS temple, he will also address the World Government Summit in Dubai on February 14 as the Guest of Honour -- the

second time that the UAE has extended this privilege to Modi.

A UNIQUE TEMPLE

The BAPS temple, built on 27 acres of land in Abu Dhabi donated by the UAE President, is a unique blend of Indian culture and the UAE's identity. It has seven tall towers, each 108 feet tall, representing the seven Emirates in the UAE. The central dome highlights the panchatatva (the five essential elements) -- earth, light, fire, air and space -- aimed to spread the message of living in harmony with nature. Three water bodies in the temple complex symbolically represent the sacred Ganga,

Yamuna, and Saraswati rivers. The temple is also detailed with intricate carvings of elephants, peacocks, and cows, depicting stories from India, and gazelles, camels, and falcons, representing Arabic culture.

This BAPS temple will be the second big Hindu temple to be inaugurated in the UAE. In October 2022, Dubai's Temple, another beautiful blend of Indian and Arab design, was inaugurated by the UAE's Minister of Tolerance HH Sheikh Nahyan bin Mubarak Al Nahyan. Dubai's Temple, another beautiful blend of Indian and Arab design, was inaugurated by the UAE's Minister of Tolerance HH Sheikh.



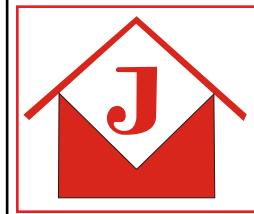
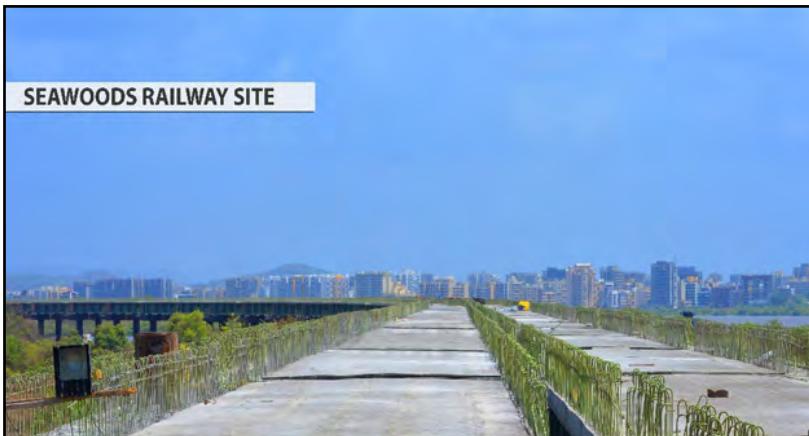
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field of construction of roads, bridges, ports, water supply system, Railways & NHAI including public giants like Reliance and Essel Group. Shri. J.M.Mhatre is the founder and his ideas, motivation and entrepreneurship could make it possible to come up to this level which is backed by professional integrity, motivation. The workforce of this company comprises the excellent

engineering professionals, production engineers, quality control engineers, safety professionals along with other qualified professionals for the operations.

Testing laboratories provides the scope for the R&D activities and innovating ideas in this field and modules are being got tested through highly professional institutes and got applied. ■■■■■

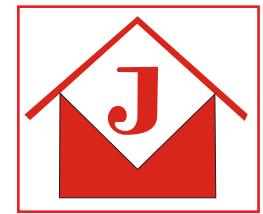


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Esri India's GIS: Pioneering precision in manufacturing



Esri offers a comprehensive suite of products and services tailored to meet the diverse needs of the manufacturing industry with an extensive portfolio that includes cutting-edge products such as ArcGIS Business Analyst and ArcGIS Knowledge.LN



- Agendra Kumar, Managing Director, Esri India

This is an insightful conversation with Agendra Kumar, Managing Director of Esri India, shedding light on the transformative role of GIS in manufacturing. In this dialogue, we explore how Esri's GIS solutions, led by ArcGIS Business Analyst, are reshaping strategic decision-making, optimising supply chains, and uncovering new dimensions of market intelligence.

Q 1: What are the key factors that manufacturers should consider when selecting a location for their operations?

Selecting the right location for manufacturing operations is a critical decision that can significantly impact a company's success. Several key efficiency. Assessing the local labour market for availability and skills ensures a workforce capable of meeting production needs. Consideration of the cost of living and labour, along with potential tax incentives, aids in managing operational expenses effectively. Understanding and complying with the regulatory environment prevents legal complications and ensures smooth operations. Accessibility to

transportation networks, reliable infrastructure, political stability, and environmental impact are also critical considerations.

Q2. How can Esri India's GIS solutions assist in identifying suitable locations for new manufacturing facilities or expansion projects?

Manufacturers need agility and new insights to deliver good customer experiences. Data-driven insights, automation, and coordinated planning across the value chainBy using ArcGIS Business Analyst in a web browser or on mobile, manufacturers can see people and opportunities clearly and reach their target customers effectively. They can optimise site selection to identify the most profitable sites, employ easy-to-use business analytics tools, access authoritative demographics, create beautiful maps and professional reports, and instantly share their market research with decision-makers —no matter where they are.

Q3: What insights can be gained from market analysis using ArcGIS Business Analyst to support decision-making in the manufacturing sector?

ArcGIS Business Analyst empowers businesses to enhance decision-making in market planning, site selection, customer segmentation, territory design and area planning, targeted outreach, etc. by integrating ArcGIS Business Analyst enables users to blend demographic, business, and competitive data with customer information. Businesses can accurately evaluate potential in their trade area, analyse their market's characteristics, and determine the success or failure of a site. ArcGIS Business Analyst enables businesses to:

- Evaluate new locations. Identify competitors.
- Review site performance.
- Measure the impact of a new store or competitor.
- Evaluate store performance by measuring customer proximity and penetration.
- Create simple, drive-time, and threshold areas.
- Identify market pull.
- Build and implement marketing programmes, and more.

Q4: How can Esri's product be used to optimise the supply chain operations of manufacturing businesses?

Utilising ArcGIS, supply chain managers can effectively navigate disruptions, tackle resilience chal-

lenges, and enhance supply chain that users can use to share key data indicators for a variety of purposes, audiences, and industries.

Q5: How does GIS help manufacturers understand customer demographics, sales patterns, and competitive landscapes?

Location intelligence, powered by GIS, enables manufacturers to visualise market trends and identify emerging markets with high growth return on investment.

Q6: What are the benefits of using GIS to analyse transportation routes, identify bottlenecks, and improve delivery times?

GIS helps in optimising transportation routes and selecting the most efficient routes to minimise delays and improve delivery schedules.

and predictive maintenance. We will also see the integration of GIS with cutting-edge technologies like IoT and AI for intelligent production planning, resource allocation, and predictive maintenance. We will also see the integration of GIS with cutting-edge technologies like IoT and AI for intelligent production planning, resource allocation,

Real-time perspectives, benefits of automated trading systems for chemical



Paving the way for a more effective and sustainable trading ecosystem.

- **Jay Lakhani**, Co-Founder and Director of Jay TechnoChem

The chemical industry is the backbone of the global manufacturing sector, providing basic inputs for a large number of products. However, conventional chemical trading processes have long been marred by inefficiency, which has wasted time, forgone opportunities, and created a lack of clear information in the market. Over the last few years, new and advanced trading platforms that incorporate automated trading have emerged in the chemical trading market. Such platforms improve the organisation and productivity of processes and provide participants with the feeling of control and confidence that they will make the right decision using real-time data and market analysis.

Q1. Embracing efficiency: How automation helps in chemical trading?

Another important benefit of using automated trading systems is the efficiency of the processes that take place. Historically, chemical transactions were very time-consuming, with buyers and sellers spending many hours looking for offers, negotiating prices, and finalising details.

These tasks are performed online where users are able to search for the products they require easily and within a short period.

Think about a system that can match buyers with sellers in the blink of an eye, depending on the set criteria. This would eliminate the need to search for information physically and the long and tiresome communication processes. Order placement and execution can also be automated, thus decreasing the amount of work and the possibility of mistakes.

Research conducted by Bain & Company revealed that chemical firms dedicate a large amount of time and money to administrative activities related to conventional trading models. Online platforms can save much time and effort, thus alleviating the companies from such tasks and letting them concentrate on the core business processes, which in turn increases efficiency.

Q2. Transparency triumphs: Real-time pricing and informed decisions

The other advantage of automated trading systems is the introduction of real-time price determina-

tion. Previous approaches involved using price lists that may need to be updated or direct price negotiations that needed to be more transparent and may have been rigged. Online platforms, however, give users the opportunity to see the current market prices of the given chemicals in real time. EY conducted a study that revealed that when there is an increase in the level of transparency in pricing, there is an increase in the level of trust, and this improves the relations between the participants in the chemical supply chain since they feel more secure and confident with the transaction.

Q3. Data-driven decisions: Business intelligence for competitive edge

Today's online environments are not limited to the provision of mere marketplaces. They have a strong data analysis capability that helps them understand the market, customer behaviour, and competitors. This data can be used by businesses to come up with the right pricing models, find new markets, and improve their trading processes in general. For example, users can use the data of past prices to forecast

the future movement of the market. They can also monitor the quantity of a particular chemical that is being traded to understand the changes in demand. Such an approach allows for making rational decisions that can greatly enhance the profitability and competitiveness of the business.

Q4. Safety and security

The chemical trading business involves handling dangerous goods, and therefore, the business is governed by various rules and regulations to ensure that the products are transported safely. Thus, automated trading platforms are essential for compliance since they integrate legal services and features for monitoring transactions for compliance issues. These platforms can be designed to alert security or any transaction that is deemed unsafe or prohibited by safety measures. at safety measures are observed. Platforms is the new trend in the market. These platforms are constantly being developed and improved with new features and functions. footprints of the products being transported. In addition, by making the trading process more efficient and have a positive impact on the cont.

Envalior leads the future of sustainable and high-performance engineering



Envalior is poised to make a substantial impact on various industries, including automotive, electronics, and construction.

- Dr. Nileshkumar Kukalyekar, Business Director at Envalior

In an era of rapid industrial transformation and growing emphasis on sustainability, the engineering materials sector is undergoing significant changes. The merger of DSM Engineering Materials and LANXESS High Performance Materials has given rise to Envalior, a new powerhouse in the global engineering materials landscape. With a mission to innovate and lead in sustainable solutions, Envalior is poised to make a substantial impact on various industries, including automotive, electronics, and construction.

Dr. Nileshkumar Kukalyekar, Business Director at Envalior, shares insights into the company's vision, strategic initiatives, and commitment to sustainability. Envalior's extensive global presence, robust research and development capabilities, and focus on diversity and inclusion position it as a leader in providing high-performance materials tailored to meet the evolving needs of its customers.

Q1: Could you provide an overview of Envalior's vision and mission following the merger of DSM Engineering Materials and

LANXESS High Performance Materials?

A: Envalior emerged in April 2023 from the combination of two highly complementary industry leaders in engineering materials – DSM Engineering Materials (DEM) and LANXESS High Performance Materials (HPM). Our combined businesses form the new global engineering materials powerhouse Envalior, which ranks among the top global engineering materials companies with a turnover of around EUR 4 billion, approximately 4,000 employees worldwide, and a strategically placed global presence across Asia, Europe and the U.S.A. Structured into three distinct divisions—Performance Materials, Specialty Materials, and Intermediates—Envalior offers a unique value chain with robust backward integration capabilities.

As a highly focused new industry leader, Envalior will build on its strong track record of innovating at the forefront of changing market dynamics and evolving customer needs focusing on sustainability. The new company aims to seize significant opportunities, especially around the transition to low carbon and circu-

lar materials, taking both businesses and teams to the next level. Our focus is to develop carbon efficient and circular technologies to enable sustainable solutions across the value chain, from materials used in customer applications all the way to reducing emissions and energy consumption of our own manufacturing footprint around the globe.

Q2.: Envalior now ranks among the top global engineering materials companies with a turnover of around EUR 4 billion. What strategies have contributed to this significant market position?

A.: Envalior has achieved its significant market position and a turnover of around EUR 4 billion through a combination of strategic initiatives and robust industry practices. Recognized for its high-quality products and strong customer relationships, Envalior operates across various sectors including automotive, electronics, medical, and construction, offering specialised materials and chemicals tailored to these industries. The company's strong focus on research and development (R&D) is evident through substantial investments in local innovation

centres, driving advancements in performance and sustainability.

Envalior's manufacturing presence in India ensures efficient production and distribution, leveraging local supply chains to enhance operational efficiency and reduce costs. The company's strategy includes offering various polymers with reduced Product Carbon Footprints (PCFs), such as recycled fishing nets in Akulon® RePurposed and bio-based monomers in EcoPaxx® and Arnitel® grades.

Envalior boasts a broad portfolio of innovative performance materials, backed by strong design and simulation expertise, allowing customers to design according to the latest technology standards.

Q3.: With a global workforce of around 4,000 employees, how does Envalior ensure diversity and inclusion within its teams?

A.: Inclusive culture is one of Envalior's core values, embraced by everyone in the organisation. To support this environment, Envalior has launched mandatory training on 'Respecting One Another,' ensuring all employees understand the importance of mutual respect.



Kalamboli's wholesale iron -steel market to get facelift



Despite paying heavy taxes, traders have been bearing the brunt despite no fault. Now, under tremendous pressure, the MMRISMC kicked off the concretisation of the remaining battered internal roads besides building six public toilets and installing 100 CCTV cameras. Streetlights will also be provided across the market yard soon.

K. R. Murgul

The Mumbai Metropolitan Region Iron and Steel Market Committee (MMRISMC) has decided to concretise 17 internal connectors at Kalamboli, Asia's largest steel and iron wholesale market. The decision was made due to the deplorable condition of the internal roads. Additionally, 50 strategic locations in the market yard will be equipped with CCTVs to address safety concerns. The traders have been demanding these improvements for years. The MMRISMC will also build public toilets and install CCTV cameras, as well as provide streetlights across the market yard.

Considering the deplorable condition of internal roads of Asia's largest steel and iron wholesale market at Kalamboli, the Mumbai Metropolitan Region Iron and Steel Market Committee (MMRISMC) administration has decided to concretise 17 inner connectors at an estimated cost of Rs 30 crore. Besides, 50 strategic locations across the mar-

ket yard which spreads across 300 hectare will be laced with CCTVs to address the safety and security issues since the traders have long been demanding this after a spate of theft reported over the last few years.

The transporters, traders and visitors to the market were a harried lot due to pockmarked roads as the market administration failed to maintain them for years.

Despite paying heavy taxes, traders have been bearing the brunt despite no fault. Now, under tremendous pressure, the MMRISMC kicked off the concretisation of the remaining battered internal roads besides building six public toilets and installing 100 CCTV cameras. Streetlights will also be provided across the market yard soon.

According to market committee executive officer AK Srivastav, "In the first phase of the developmental plan beginning from 2011, we took up the concretisation of 7 service roads and 11 internal roads apart from 6 toilets and CCTV cameras at 6 locations at a cost of Rs 52 crores. Besides, Cidco also concretised a 6.5



km peripheral road stretch in 2016. Now in the second phase, remaining 17 internal roads will be concretised at Rs 30 crores. For 100 CCTV cameras at 50 locations, Rs 50 lakh has been appropriated. Six new toilets will be built on build, operate and transfer basis."

Direction sign boards will also be put up along the lanes and streets, so is the storm water drainage system. "Utility duct line is the need of

the hour which has been included in the score of work. The contractor has been issued a timeline till December 2024 to complete the project," said Sangeeta Dongare, chief executive officer of market committee. "We have been bearing the brunt of negotiating the back breaking ride for years now. We are left to face potholes and waterlogging every monsoon. I hope the committee will fix the problems soon," said a trader.

India's Presenting Introduction to Automation in Industry

Cycle times and effort are significantly minimized by integrating multiple processes in a production process using industrial automation. This helps to save labor costs and allows workers to concentrate on more value-added tasks.

By Meet A. Moradiya

What is Automation Technology?

Automation is the control of machinery and processes by independent systems through the use of various technologies which are based on IT software or robotics. The implementation of automation in industry often increases productivity and reduces the labor costs of manufacturing processes.

Industrial automation utilizes various industrial communication devices, such as programmable logic controllers (PLCs) and programmable automatic controllers (PACs). Control strategies implement several technologies to achieve the desired result, and automated systems are essential to realize their potential.

Why is Industrial Automation Used?

Employing automation in industry improves the rate of production through superior control. It helps to improve bulk manufacturing by significantly reducing product processing time and improving quality. Therefore, a given labor input produces a higher amount of product.

Cycle times and effort are significantly minimized by integrating multiple processes in a production process using industrial automation. This helps to save labor costs

and allows workers to concentrate on more value-added tasks. Another benefit of automation in industry is eliminating human error, which can be costly and time-consuming. Adaptive control and monitoring of industrial processes at all stages of the production process maintain consistent and reliable product quality from the laboratory to the industrial level. Manually checking for various process parameters can require assembly lines to be interrupted. With automation, this necessary but time-consuming and costly task is completely reduced. Process variables are automatically adjusted to define values using closed-loop control techniques in automated systems.

Types of Industrial Automation Systems

There are several types of industrial automation systems in use today. The main types are listed below.

Fixed Automation

In fixed automation, the sequence of processing operations is set by the equipment parameters. Each operation in a fixed or hard automation sequence is usually simple; it is the combination and coordination of many operations into one piece of equipment that makes the system more com-



plicated.

Flexible Automation

A flexible or soft automated system is a system that is capable of producing a wide range of products simultaneously or over the production cycle with no time between changes. This type of automated system is fully programmable.

A flexible automation system does not suffer from loss of production time when reprogramming the automation system and changing the product's physical parameters. As a result, the system can produce different combinations and schedules of products instead of requiring them to be manufactured in separate batches.

Examples of flexible automation systems include robots, material handling.. Humans are still.

Programmable automation is particularly useful for batch production processes with a medium to high production volume that must change and recognize new products or sequences of operations.

Numerically controlled machines, steel rolling mills, paper mills, and industrial robots are examples of programmable automation.



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Osaka Rubber Private Limited

Osaka Rubber Private Limited specializes in manufacturing high-quality rubber products, including molded rubber items and rubber profiles. With a focus on innovation and customer satisfaction, the company provides reliable and durable solutions for various industrial applications. Their extensive product range and commitment to excellence have established them as a trusted name in the rubber industry.

RT45 Butyl Roofing Tape

Product Overview:

RT45 Butyl Roofing Tape is a highly durable and versatile sealing solution designed for roofing applications. It ensures superior waterproofing and adhesion, making it ideal for sealing joints, overlaps, and repairing leaks. The tape is easy to apply and provides long-lasting protection against water ingress and weather elements.

Key Features:

- High Adhesion: Excellent bonding to various surfaces including metal, plastic, and concrete.
- Weather Resistant: Withstands extreme temperatures and UV exposure.
- Flexible and Durable: Maintains flexibility without cracking over time.

Applications:

- Sealing roof joints and overlaps
- Repairing leaks and cracks
- Waterproofing installations

For more details, visit the Osaka Rubber Private Limited website.



Wasp Pumps Pvt. Ltd.

Established in 1962, Wasp Pumps Pvt. Ltd. is a renowned manufacturer and exporter of high-quality reciprocating and centrifugal pumps. Based in Thane, Maharashtra, the company is known for its innovative designs and reliable products that cater to various industrial needs. Their extensive product range includes high-pressure pumps, triplex reciprocating pumps, and decontamination systems, ensuring efficient and durable solutions for diverse applications.

Product Write-Up: High Pressure Triplex Reciprocating Plunger Pump

Wasp Pumps' High Pressure Triplex Reciprocating Plunger Pump is a standout product, designed for robust performance in demanding environments. Featuring high-quality materials and precision engineering, this pump ensures consistent high-pressure output, making it ideal for applications in industrial cleaning, reverse osmosis, and hydro jetting. Its reliability and efficiency make it a top choice among clients. For more information, visit Wasp Pumps Pvt. Ltd..



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Bharat Rubber Works

Bharat Rubber Works is a leading manufacturer and supplier of high-quality primary pharmaceutical and pharmaceutical packaging solutions. With over 45 years of expertise, the company delivers innovative and reliable packaging products to global markets. Their commitment to quality and advanced technology ensures that they meet the stringent requirements of the healthcare industry, making them a trusted partner for top pharmaceutical firms.

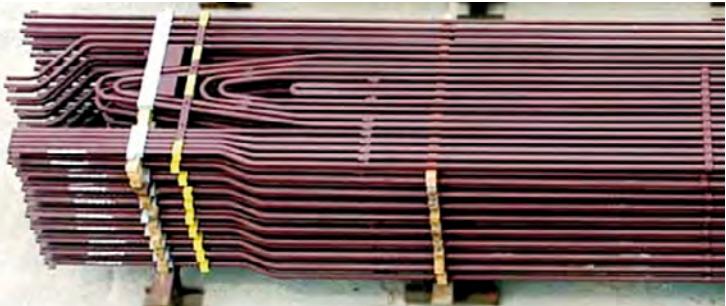
Product Write-Up: Pharmaceutical Rubber Stoppers

Bharat Rubber Works' Pharmaceutical Rubber Stoppers are designed to provide a secure seal for injectable medications. These stoppers are crafted from high-quality rubber materials, ensuring excellent chemical resistance and compatibility with various formulations. Their precision manufacturing process guarantees a reliable and leak-proof seal, making them an essential component in the pharmaceutical packaging industry. For more information, visit Bharat Rubber Works.



TPP Boilers Pvt. Ltd.

TPP Boilers Pvt. Ltd. is a small-scale industry specializing in the design, fabrication, and erection of boiler components and equipment. With expertise from seasoned professionals, the company offers high-quality solutions including economizer coils, superheater coils, and water wall panels. They serve a variety of industrial needs with cost-effective and reliable products, backed by extensive experience in the industry.



Product Write-Up: Superheater Coils

TPP Boilers' Superheater Coils are a key product designed to enhance boiler efficiency by superheating the steam output. These coils are crafted using high-grade materials to withstand extreme conditions, ensuring durability and optimal performance. They are essential for thermal power plants, providing reliable and efficient steam generation.

For more information, visit [TPP Boilers Pvt. Ltd.](<https://www.tppboilers.com/>).

Worldpack Automation Systems

Worldpack Automation Systems is a leading provider of automated labeling solutions, specializing in designing and manufacturing self-adhesive labeling machines. With over 15 years of experience, the company serves various industries, including pharmaceuticals, food and beverages, personal care, and more. Known for their innovation and reliability, Worldpack has established a strong global presence, exporting to numerous countries and maintaining high standards of quality and customer service.

Trending Product: Automatic Labelling Machines



Product Overview:

Worldpack's Automatic Labelling Machines are designed for precision and efficiency, providing seamless labeling solutions for a variety of containers. These machines ensure accurate label placement, high-speed operation, and adaptability to different product types and sizes.

Key Features:

- High Speed: Capable of labeling over 700 bottles per minute.
- Versatile: Suitable for various container shapes and sizes.
- Accurate: Ensures precise label placement for optimal presentation.

For more details, visit [Automatic Labelling Machines](<https://www.worldpackmachines.com/>)

Hindustan Electric Motors

Hindustan Electric Motors, a leading electric motor manufacturer in India, boasts over five decades of experience in design, development, and manufacturing. With ISO 9001:2015 certification, they provide a wide range of high-efficiency electric motors tailored to various industrial applications. The company's commitment to quality and innovation has earned them a trusted reputation both domestically and internationally.



Product Write-Up: IE3 Premium Efficiency Standard Motors

Hindustan's IE3 Premium Efficiency Standard Motors are designed for high performance and energy efficiency. These motors comply with international standards, ensuring low maintenance and superior reliability. Ideal for a range of industrial applications, they offer significant energy savings, making them a preferred choice for businesses aiming to reduce operational costs and environmental impact.

For more information, visit Hindustan Electric Motors.



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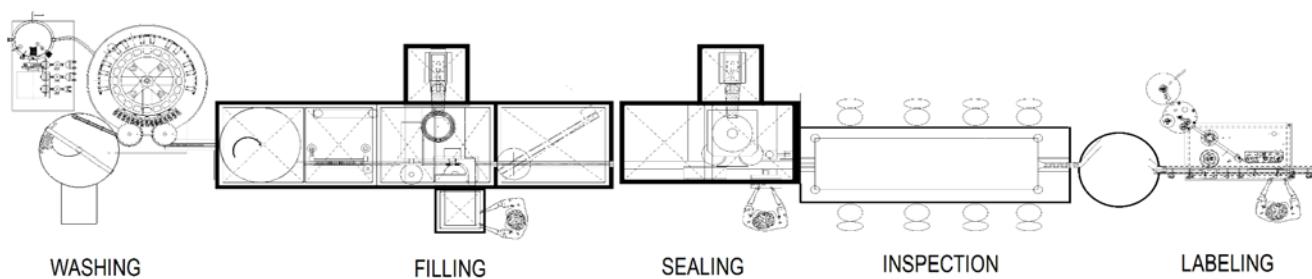


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