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MAKE IN INDIA

JANUARY 2025



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THE TIMES OF INDIA

TECHNOLOGY
AI-INDUSTRY

**RETRACTABLE SYSTEMS ARE
REDUCING ENERGY COSTS**

AI AND IOT-DRIVEN INDIA

**GAME CHANGERS OF INDIA'S
GREEN ENERGY MOVEMENT**

**SAFETY
COMES
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**BUILDING BLOCKS
OF THE FUTURE**

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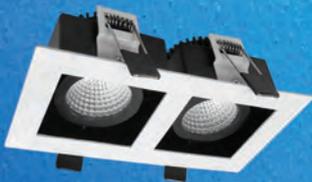
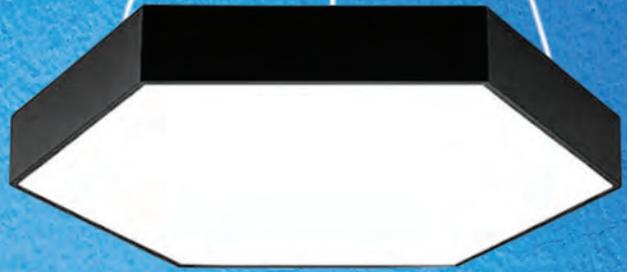
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PRESENTATION

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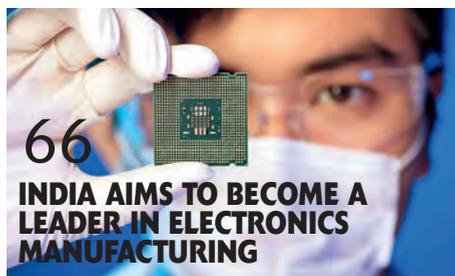
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Jitendra Kumar Sharma
Managing Director



Hitesh Sharma
Director



Deepak Sharma
Director

YOUR FIRE SAFETY PARTNERS, BUILDING TRUST

Bhawani Fire Protection Pvt Ltd, based in Ghaziabad, is a renowned manufacturer of Fire Resistant Doors and Windows essential for ensuring fire safety compliance. Founded and led by Mr. Jitendra Kumar Sharma, the company has thrived under the guidance of Directors Hitesh Sharma, Smriti Sharma, Deepak Sharma, Shruti Sharma, and Mithlesh Sharma.

The company's journey began in 1999 when Mr. Jitendra Kumar Sharma, originally from Bulandshahr, ventured into the fabrication industry with limited resources. Over time, his relentless dedication and commitment led to the establishment of Bhawani Fire Protection Pvt Ltd in 2014.

For two decades, the company has been a prominent name in the industry, specializing in manufacturing fire-resistant doors, fire-rated steel doors, glazed fire-rated doors, wooden fire doors, and more. These products are crafted with top-quality materials such as Galvanized Steel, stainless steel etc., tailored to each project's design, specifications, and finish. Bhawani Fire Protection Pvt Ltd operates three manufacturing units in Delhi/NCR, equipped with cutting-edge machinery and a skilled workforce of 300.

With a production capacity of 14,000 units per month and stringent quality control measures, the company maintains ISO certifications and government approvals. Bhawani Fire Protection Pvt Ltd has already sold over two lakh doors and aims to achieve a turnover of Rs 500 crore in the next five years. Their expertise extends to serving some of the biggest names in the industry as an OEM for them.

Beyond their professional success, Jitendra, Hitesh and Deepak prioritize family time and leisure activities. Notable achievements include completing a significant project for the Supreme Court of India in 2015, and serving clients like NTPC, Adani, Tata Housing, L&T, and more. They take pride in projects like the Supreme Court of India, Delhi AIIMS, Allahabad High Court, and Nagpur Airport.

The father-son trio lives by the motto, "If opportunity doesn't knock, build a door," and their vision propels them toward achieving their goals. Bhawani Fire Protection Pvt Ltd continues to stand out for its high quality, flawless metal fabricated items, cost-efficiency, and customizability, promising a bright future in the industry.

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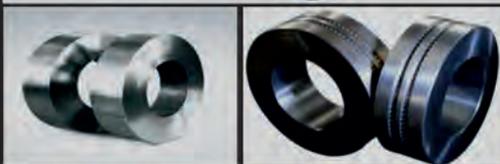
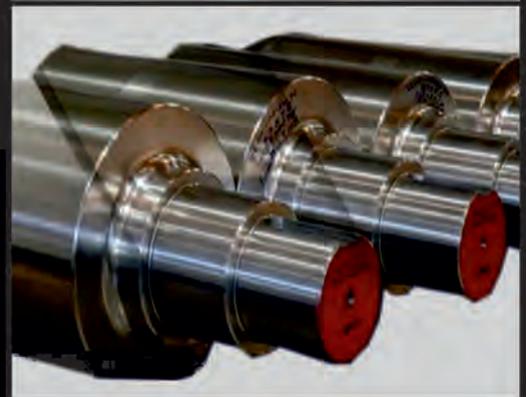


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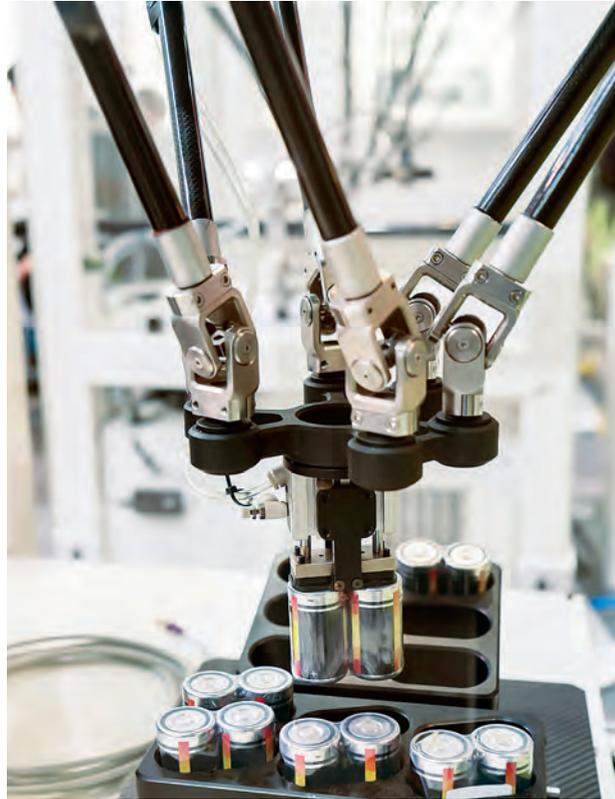
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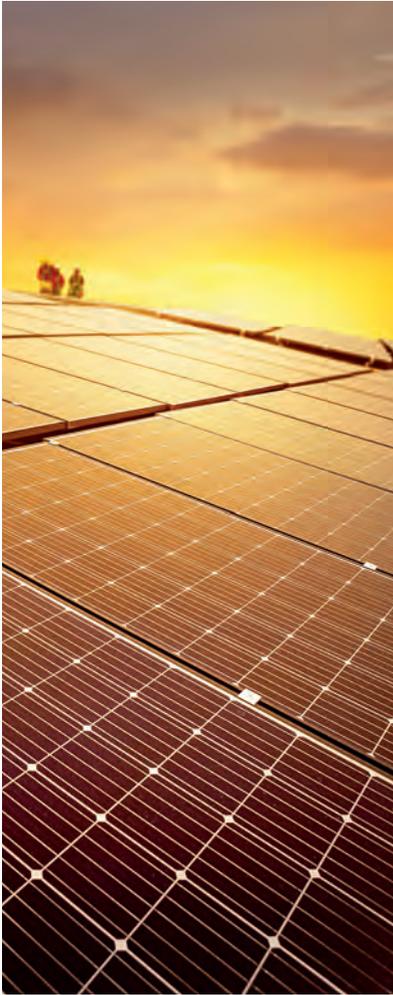
GIRISH DUTT SHUKLA

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ith the adverse effects of climate change and increasing energy demands looming large, the world has entered a crucial juncture in its energy transition journey. Being the third-largest energy consumer in the world and witnessing the growing need for environmental protection and sustainability, India couldn't afford to be a mere spectator in this shift to

renewable energy sources. With that realisation, the country has now set its sights on two momentous goals—achieving 500 GW of renewable energy capacity by 2030 and net-zero emissions by 2070.

Recognising the urgency of embracing energy conservation, one of the significant drivers for this ambitious renewable energy target is the country's immense solar energy potential, thanks to its geographical advantages. Emerging as the third largest producer of solar power, India has solidified its position as a prominent player in the global solar energy landscape, with a cumulative solar power installation capacity of 94,167.83



MW as of November 2024. This remarkable growth underscores the Indian government's commitment to promoting the generation of solar power through comprehensible policies and schemes.

The Production Linked Incentive Scheme (PLI) for the National Programme on High-Efficiency Solar PV Modules was launched in 2020 to boost the manufacturing capacity of high-efficiency solar PV modules with an outlay of Rs 24,000 crore. While PLI (Tranche-I) has 8,737 MW capacity of fully integrated solar PV module manufacturing units planned with an outlay of Rs 4,500 crore, Tranche-II allocated 39,600 MW of fully or partially integrated solar PV module manufacturing capacity to 11 bidders, generating Rs 93,041 crore in investment and over 1 lakh direct and indirect job opportunities. Under the Solar Park Scheme, the government plans to build 50 solar parks with an aggregate capacity of approximately 38 GW by 2025-26. To provide energy security to farmers, the PM-KUSUM scheme

seeks to build 30.8 GW of solar power capacity by March 2026.

During this past decade, solar power has provided access to electricity to millions of people from various parts of the country. The Indian solar energy revolution has paved the way for several groundbreaking innovations, ranging from thin, flexible solar panels and floating solar farms to windows that could convert sunlight to electricity and solar paints. With these advancements, scientists, and engineers are aiming towards a world where almost anything can generate energy from the sun. Extending the access of electricity to even the remote areas of the country has led to the rise in power-enabled farm activities and the growth of small businesses, thus opening up new opportunities for social and economic development.

"Earlier, when solar power couldn't be tapped, I had to pay a huge amount for the electricity bill—close to Rs 2,000. However, with solar installation, my electricity bill is now zero. Everything from the refrigerator to the

THE COUNTRY
HAS NOW SET ITS
SIGHTS ON TWO
MOMENTOUS
GOALS—ACHIEVING
500 GW OF
RENEWABLE ENERGY
CAPACITY BY 2030
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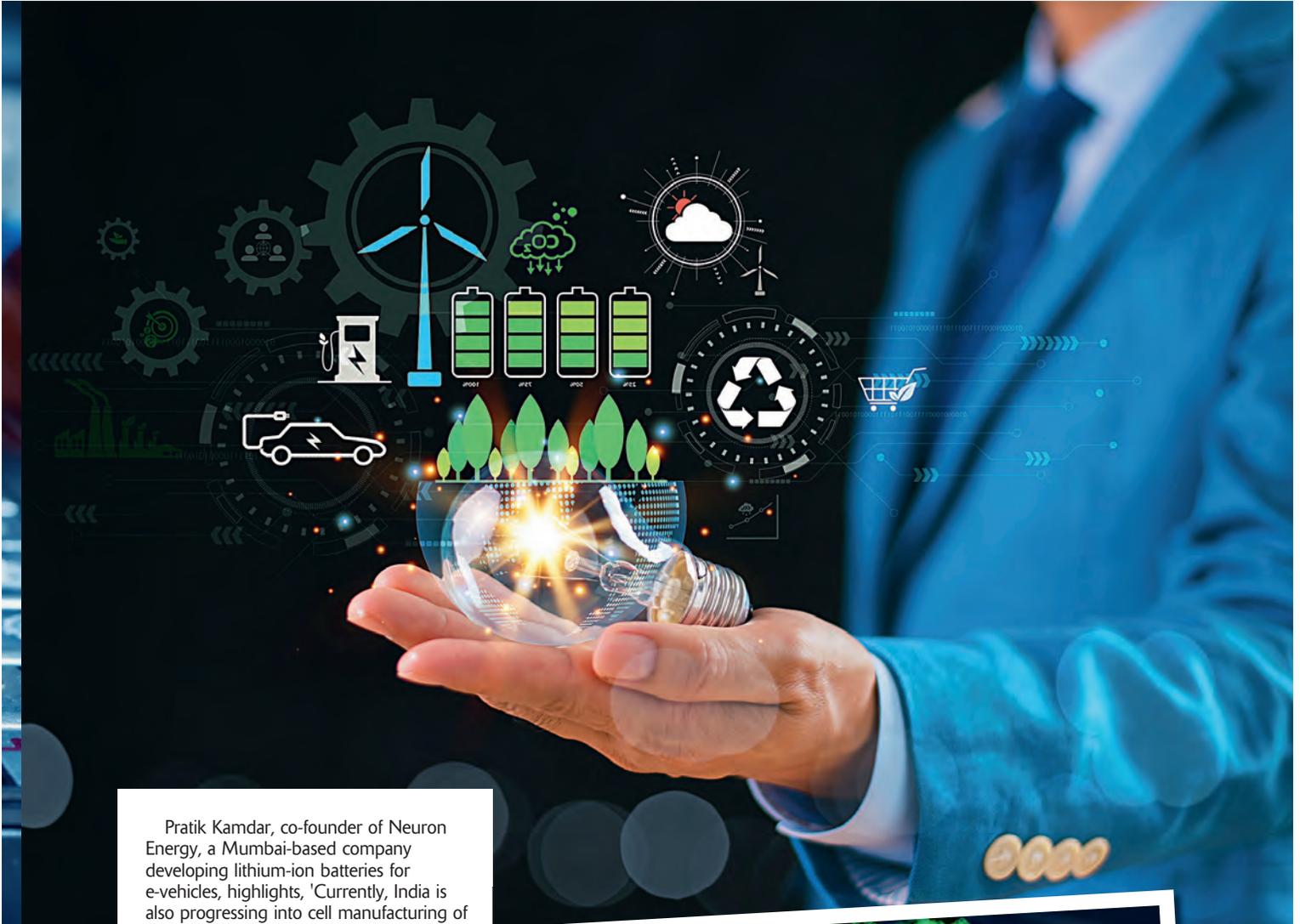
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washing machine now runs on solar energy in my house. I am not paying even a single penny of electricity bill now," says Gadvi Kailashben of India's first solar-powered village, Modhera.

In this pursuit of a clean energy future, the role of efficient, reliable, and accessible energy storage solutions cannot be overstated. Thanks to high energy density, relatively low weight and lengthy lifespan, lithium-ion batteries have emerged as the preferred choice for energy storage and utilisation. Considering the intermittent nature of solar power generation, the integration of lithium-ion batteries into solar solutions would offer a more consistent and reliable energy supply. Their capability to withstand harsh climatic conditions makes them a perfect pick

for integrating renewable energy technologies. This ability to deliver consistent performance over long periods proves they are exceptionally useful on applications that are placed particularly in remote areas.

The modular nature of lithium-ion batteries ensures flexibility and scalability, enabling them to cater to varying residential and commercial energy storage requirements. In comparison to traditional fossil fuel-based energy sources, lithium-ion batteries, which emit zero greenhouse gases during operations, are an environment-friendly alternative. Additionally, these batteries can be recycled to further reduce the environmental impact and promote sustainable resource management.



Pratik Kamdar, co-founder of Neuron Energy, a Mumbai-based company developing lithium-ion batteries for e-vehicles, highlights, "Currently, India is also progressing into cell manufacturing of batteries, and it will provide the much-needed impetus to the sector as it will reduce the dependence on imports while also solving the supply-chain challenges as the country will have its own reserves of lithium, besides bringing down costs."

Thus, by harnessing solar energy with the help of various solar innovations and storing it in safe and dependable lithium-ion batteries, people can reduce their carbon footprint and positively contribute to climate change mitigation.

"Today, the ways to adopt a healthy, eco-friendly lifestyle are endless. Looking back and comparing, I see no reason why all urban households cannot be energy efficient. It is an investment with a solid payback for your pocket, environment, and future!" shares Puducherry-based Dr Brahmanand Mohanty, who built a fully solar-powered house.





INDIA POISED TO BECOME A LEADER IN SUSTAINABLE SOLUTIONS

INDIA'S RENEWABLE ENERGY TRANSFORMATION IS RESHAPING ITS LANDSCAPE WITH SOLAR, WIND, AND GREEN HYDROGEN INITIATIVES THAT WILL REDUCE CARBON EMISSIONS

GIRISH DUTT SHUKLA

Ten years ago, the Indian energy market, which was predominantly dependent on fossil fuels, was struggling to meet the rising energy demand and fulfil the needs of its growing population. Ever since then, realising the environmental and economic advantages of renewable energy, the country has experienced a pivotal shift in its energy landscape. This transformative journey has put India at the forefront of the global clean energy market, especially in the production of solar power.

Many new economic development models have been adopted to prevent carbon-intensive approaches. Some of the crucial elements that form the decarbonisation strategy include improved digitisation, increasing adoption of energy-efficient

technologies, and higher use of cleaner fuels in the energy mix. India's 2024-2025 Union Budget, which recognises energy as a priority sector, allocated around a whopping Rs 68,769 crore for fulfilling the nation's green energy transformation.

"Switching to renewable energy has not only created jobs but also given remote areas access to reliable electricity. It's a win-win for the country and its people," says a local engineer working in solar projects.

In one of the world's most anticipated renewable energy projects, the Indian government has set an ambitious target of achieving 500 GW energy capacity by 2030, including 280 GW solely from solar energy. This commitment is part of the nation's broader strategy to transition to a low-carbon economy, with the aim of reaching net zero emissions by 2070. These renewable energy targets are in alignment with global climate agreements like the

Paris Agreement, cementing India's position as a responsible global player.

According to India's Union Minister of New and Renewable Energy, Prahlad Joshi, the country has witnessed a dramatic surge in its renewable energy capacity in the last 10 years — from 76 GW in 2014 to more than 200 GW as of June 2024. It was during the same time that solar energy skyrocketed from 3 GW to an impressive 85 GW. This remarkable growth in renewable energy capacity can be attributed to numerous government-led policies which focused on the promotion of clean energy adoption.

The Indian government's strategy involves nurturing public-private collaborations to drive sustainable energy projects. It attracts a significant amount of private investments in the renewable energy sector by offering tax benefits, policy incentives, and subsidies. The contributions made by companies such as Adani Green Energy and Tata Power in the form of different solar and wind energy projects are enough to demonstrate the effectiveness of these partnerships.

"Having solar panels installed in our village has been life-changing. For the first time, we have consistent electricity that doesn't harm the environment," shared a resident from a rural area.

Regular auctions of renewable energy resources have been critical in ensuring both sustainable development and competitive pricing, reinforcing India's power in the global renewable energy market.

The National Green Hydrogen Mission (NGHM) plays a crucial role in India's green energy transformation. Green hydrogen can be an ideal replacement for traditionally used fossil fuels in transportation, which contributes significantly to India's greenhouse gas emissions. It can be used



for the production of steel, methanol, and ammonia. Additionally, it has the potential to power up large-scale industrial processes by generating high-temperature heat.

Since India's aim of achieving energy independence is heavily reliant on green hydrogen, the country has allocated around Rs 19,744 crore to generate 5 MMT of green hydrogen per annum. If the nation manages to fulfil this goal by 2030, it will establish India as a global hub for the production, usage, and export of green hydrogen.

Prime Minister Narendra Modi's "Green Growth" trajectory is centred around the combined powers of solar, wind, and hydroelectric energy to ensure environmental protection, energy security, and economic resilience. The push for green hydrogen coupled with initiatives such as the National Solar Mission,

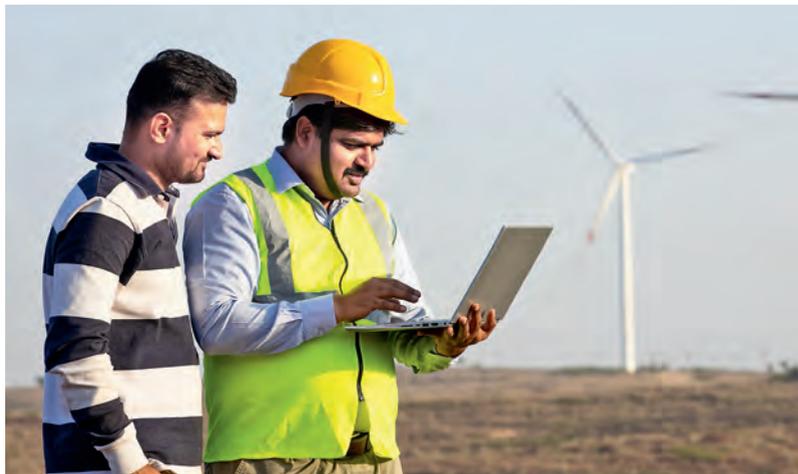
International Solar Alliance (ISA), and Wind Energy Projects underscore his vision to make the country a hub for renewable technology and green careers.

"Investing in green hydrogen is a bold step forward. It's incredible to think that our energy needs could soon be met sustainably while reducing carbon emissions," remarked a university student studying environmental science.



This focus on renewable energy will help India in achieving economic sustainability. The expansion of clean energy sources reduces the dependency on imported fossil fuels, thus lowering energy costs and reducing the susceptibility to global fuel price fluctuations. The manufacturing, installation, and maintenance of these renewable energy systems create various job opportunities, which can help in decreasing the country's reliance on traditional industries. By promoting renewables, the government cuts down costs caused due to climate disruptions. These renewable energy sources also improve access to affordable electricity, especially in remote and underdeveloped areas.

Considering the current economic growth, India is believed to emerge as the second-largest economy in the world by 2050. In that case, if the country's clean energy transformation initiatives fulfil their promises and contribute to limiting the global average temperature to 'well below 2°C', then it will be able to solidify its position as a clean energy superpower. However, to tackle the evils of climate change, these government policies require significant public support.





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BLDC MOTOR E-RICKSHAW (L3)

1000W, 1250W, 1500W
BATTERY VOLTAGE-48-60V



L3 - LOADER & PASSENGER
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PMSM MOTOR IPMSM 32KW 384 VOLTS

MOTOR RATING - 30KW/ 60KW, 40KW/80KW
BATTERY VOLTAGE- UPTO 600V



commercial vehicle segment -
CARS, LCV, MINI-BUS,
TRACTORS, CRANE



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HFM Solar

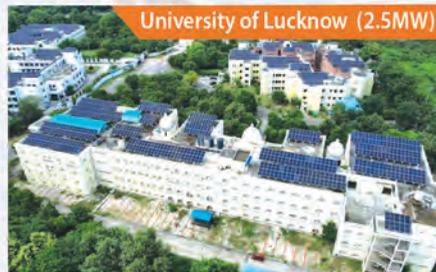
Driving India's Renewable Energy Revolution

In a world rapidly transitioning to renewable energy, HFM Solar emerges as a leader in delivering innovative, low-carbon solar power solutions. Specializing in the development, engineering, procurement, construction, and operation of solar assets, the company caters to a diverse clientele, including **Government Bodies, Commercial Enterprises, Industries, and Residential Customers**. Recognized as one of India's premier solar power developers, HFM Solar is committed to reducing costs and promoting environmental sustainability through comprehensive, customized solar solutions.

At the heart of HFM Solar's mission is a dedication to sustainability, quality, and reliability. With a growing portfolio of over 50 MW of operational solar assets spread across key states like Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Rajasthan, Assam, and Delhi, the company powers prestigious clients such as IGNOU, Delhi Metro, Lucknow University, and Kirori Mal College. Its end-to-end services, from consultation and financing to installation and long-term maintenance, ensure that every project delivers cost-efficient, high-performance results. Backed by industry certifications and partnerships, including its status as an authorized channel partner for ADANI Modules, HFM Solar sets the benchmark for excellence in solar engineering and technology.

To address diverse customer needs, HFM Solar offers flexible business

models. These include the CAPEX model, where customers make an upfront investment for long-term savings; the RESCO/OPEX model, which eliminates upfront costs through Power Purchase Agreements; and the Open Access model, enabling large consumers to procure cheaper power while meeting renewable energy obligations. These tailored approaches make solar energy accessible, cost-effective, and hassle-free for all sectors.



HFM Solar's commitment extends beyond installation, with a focus on lifecycle management. From initial consultation and engineering design to seamless financing, installation, and maintenance, the company ensures optimal performance for every solar project. Its innovations include the Surya Nutan indoor solar cooking system, deployed under the Bureau of Energy Efficiency initiative, and active participation in government schemes like the PM Surya Ghar Yojana, under which HFM Solar has installed solar panels on over 100 households, contributing to the vision of free electricity for Indian families.

PM Surya Ghar Yojana



With a proven track record of successful projects for educational institutions, industrial clients, and government bodies, HFM Solar has earned recognition as a trusted name in the sector. Prestigious awards like the Industry Leadership Award at the Solar Rooftop Congress, along with high rankings in industry reports, underscore its leadership and commitment to innovation.

As the global shift to renewable energy accelerates, HFM Solar is well-positioned to shape India's clean energy future. Whether reducing operational costs for corporations, helping institutions achieve sustainability goals, or enabling households to lower electricity bills, HFM Solar provides the expertise and technology needed for a seamless transition to solar energy. Embrace a brighter, greener tomorrow with HFM Solar as your partner in sustainability.

IGNOU New Delhi (500kWp)



Awards & Achievement's



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Rohit Kansal
CEO

Gagandeep Kansal
Vice President

Reliable Batteries, Smarter Solar, Greener Tomorrow

Macroon Power Plus Pvt. Ltd. is a leading manufacturer of Lead-acid Batteries, Lithium Batteries, Solar Inverters, Automatic Voltage Stabilizer and EV Chargers in India, committed to delivering reliable energy solutions for homes and businesses. We produce and export a range of products, including inverter batteries, automotive batteries, two-wheeler batteries, lithium-ion batteries, and solar panels with accessories. Our focus is on providing quality products that meet the diverse needs of our global customers, backed by over four decades of expertise in the electronics and electrical industries.

Our strength lies in creating durable, high-performance products that enhance energy efficiency and reduce costs. We serve various sectors such as healthcare, manufacturing, hospitality, clinics, and corporate enterprises, always striving to build strong, lasting relationships with our clients. Our dedication to customer satisfaction is matched by our commitment to innovation, ensuring that we continue to offer solutions that drive progress and improve well-being.



Macroon Batteries In Export Market

Macroon Power Plus Pvt. Ltd. is a trusted manufacturer of high-quality Lithium Batteries, offering advanced energy solutions for homes and businesses. Our lithium batteries provide longer lifespan, faster charging, and superior efficiency compared to traditional options, making them ideal for a variety of applications. With a commitment to quality and over four decades of expertise, we ensure our lithium batteries meet the needs of customers both in India and across global markets.

Our mission is to set new standards in energy solutions by offering high-quality, innovative products that empower our customers. We envision a world where reliable and sustainable energy is accessible to all, and we are committed to advancing our technology to make that vision a reality. At Macroon Power Plus, our core values of excellence, integrity, and innovation guide us in delivering the best possible solutions and building a brighter, greener future for everyone.

In today's world, reliable energy storage is crucial, especially in regions experiencing power shortages. Inverter batteries have become an essential solution for keeping homes, businesses, and industries running smoothly. As a leading manufacturer and exporter, we provide high-quality inverter batteries, engineered with cutting-edge technology and strict quality controls. Our batteries ensure optimal performance, long-lasting power, and peace of mind.

Exporting to Over 20 Countries!

With a strong global presence, our inverter batteries are designed to meet the diverse needs of customers worldwide, delivering consistent and dependable power solutions.



MACROO POWER PLUS



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WE ARE MANUFACTURER OF E RICKSHAW, E KART AND ITS SPARE PARTS. COMPANY HAS BEEN PROMOTED BY MR. SIDHARATH RAJ JAIN WHO HAS VAST EXPERIENCE OF SPARE PARTS MARKET AS HE SEVERED WITH LUMAX INDUSTRIES FOR 37 YEARS AND HAS MAJOR EXPERIENCE WITH AUTO MARKET. COMPANY HAS ITS SISTER CONCERN SUDESH AUTO MOBILES PVT. LTD., WHICH WAS FORMED IN 1995 BY SAME PROMOTER. LATER MR. ASHISH JAIN WHOSE HAS EXPERIENCE OF AND MARKETING, AS HE SERVED WITH SHOCKER ABSORBER MANUFACTURING COMPNAY FOR 10 YEARS,

MR NITIN JAIN AL SO JOINED COMPANY AFTER HIS GRADUATION AND IS HANDLING DAY TO DAY ASPECTS OF COMPANY. DIVANSU AUTOMOBILES LIMITED STARTED ITS BUSINESS IN 2007 WITH THREE-WHEELER MANUFACTURING AND EXPORTED SAME TO VARIOUS COUNTRIES. LATER IN 2016 THEY DIVERSIFIED THE BUSSINESS AFTER LOOKING FUTURE OF E VEHICLES MANUFACTURING OF E RICKHAW, E KARTS. IT HAS VAST NETWORK OF DEALERS THROUGH OUT INDIA. COMPANY IS PLANNING TO START MANUFACTURING L5 MODELS IN NEAR FUTURE WHICH WILL ADD ANOTHER FEATHER TO THEIR CAP.

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📍 Hatwala Road, Samalkha/District
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SMART ROOF SOLAR

Solar Makes Business Sense



Vikas Singhal
Managing Director

Smart Roof Solar Solutions Private Limited is a Gurgaon-based international company established in 2015, which specializes in providing solar energy solutions to the residential, industrial and commercial sectors. Smart Roof Solar's team of experts works closely with clients to design customized solar solutions, such as on-grid, off-grid, hybrid solar installations with Lithium batteries, that optimizes energy efficiency, reduce electricity costs, and minimize environmental impact. The company offers end-to-end solar installation services, including consulting, engineering, installation and maintenance services and take a lead right from the initial site evaluation and design to installation, maintenance, and system monitoring and performance enhancement of existing solar plants.

Smart Roof has also designed and installed the power evacuation for 22 MW solar plant at Uganda. The company has experience of installing solar systems on tin sheds, RCC roofs and elevated structures.

Smart Roof Solar offers a range of services, including the installation of solar systems on tin sheds, RCC roofs, ground-mounted structures, and elevated structures. Their expertise extends to Open Access plant, DG Synchronisation, Net Metering/Net Billing and Zero Export Device catering to diverse energy needs.

With a strong focus on innovation, affordability, and sustainability, Smart Roof Solar has completed over 1000 projects, delivering a total capacity exceeding 100 MW solidifying its position as a key player in India's green energy revolution. Key projects include solar installations for industries like plastic, forging, metals, jute, pharmaceuticals, garments, food, chemical, electrical appliances etc. Smart Roof has done successful design and installation of more than 500 solar projects in hilly terrain of Bhutan.

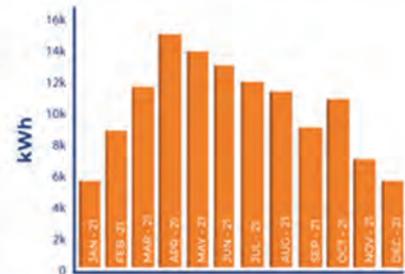
The company stands out as a leading player in India's renewable energy sector, renowned for its expertise in both rooftop and ground-mounted solar systems. The company's commitment to innovation and sustainability drives its mission to make clean energy accessible, eco-friendly, cost-effective, and technologically innovative, aiming to deliver high returns on investment.

Smart Roof Solar Solution integrates advanced solar technology, smart energy management, and intelligent design to optimize energy generation and consumption. These systems are designed to enhance energy efficiency, sustainability and cost-effectiveness while often integrating with smart home or building management systems.



Monthly Generation Graph (Delhi NCR - 100kWp)

Annual Generation (Jan21-Dec21)- 1,30,486 kWh



SMART ROOF SOLAR SOLUTIONS PRIVATE LIMITED

Office Address: 1505, Tower B, Unitech Cyber Park, Sector 39, Gurugram-122022



The company provides AI based tech services to increase the plant performance and assist in the asset value maximisation. Its in-house developed SOLARMAX IT-integrated platform elevates the value of solar installations beyond the initial setup. Smart monitoring systems like SOLARMAX can track performance, detect faults, and improve efficiency through data analysis. By delivering detailed monthly performance reports and analysing electricity bills, SOLARMAX empowers clients to track the effectiveness of their solar investments. The platform enhances client satisfaction by offering actionable insights and transparent data, helping users maximize their energy savings and optimize system performance.

As a proud advocate of the Make in India initiative, Smart Roof Solar sources its solar panels and components from trusted domestic manufacturers, contributing to the growth of India's renewable energy sector. By promoting solar energy, the company is not only helping businesses and homeowners reduce their carbon footprint but also supporting India's ambitious clean energy targets.

Smart Roof Solar stands out for its commitment to quality, innovation, and customer satisfaction, making it a trusted partner in India's solar revolution.

SRS Services (For Industries/Commercial/Institution)



Solar Installation on elevated structure



Solar Installation on Tin Shed



Solar Installation on RCC Roof



Ground Mounted Solar installation

SRS Services (For Residences)



Solar Installation on RCC Roof



Solar Installation on elevated Structure



Solar Installation in Balcony



Solar Installation on Car Parking Area



Solar Installation with micro-inverter



Off-Grid Solar Installation

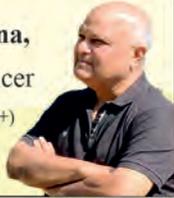


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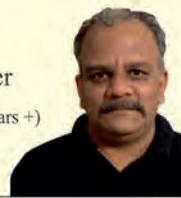
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“TEAM ENIPL”

Mr. Shailendra Saxena,
Chief Technology Officer
(Industry Experience of 39 Years +)



Mr. Amit Chaudhry,
Chief Executive Officer
(Industry Experience of 26 years +)



Mr. Madan Lal,
Chief Operations Officer
(Industry Experience of 32 years +)



WHY WE CAME TOGETHER?

HAVING WORKED IN THE INDUSTRY FOR INDIAN & GLOBAL MAJORS LIKE VA TECH WABAG, THERMAX, AQUATECH ASIA, ION EXCHANGE GROUP, PENTAIR, EA WATER AND SO ON, WE REALISED THAT MARKET FOR DE-CENTRALIZED WASTE-WATER TREATMENT IS GROWING VERY RAPIDLY AND IT REQUIRES TO BE ADDRESSED IN A MUCH MORE PROFESSIONAL WAY AS COMPARED TO HOW IT IS BEING HANDLED CURRENTLY! CUSTOMERS SHOULD GET WHAT THEY ARE PAYING FOR! A SYSTEM WHICH ACTUALLY PERFORMS AND GIVES DESIRED RESULTS MATCHING THE LATEST NORMS BY CPCB UNDER GUIDANCE FROM NGT!

OUR EXPERTISE

OUR EXPERTISE LIES IN MANUFACTURING OF PACKAGED PLANTS (ETP & STP) FOR TREATING WASTEWATER - COMPACT & HIGHLY EFFICIENT SYSTEMS WHICH ARE IDEAL FOR URBAN AND INDUSTRIAL ENVIRONMENT WITH SPACE AND OTHER CONSTRAINTS. THESE PLANTS ARE DESIGNED NOT ONLY TO TREAT WASTE WATER BUT ALSO TO PROMOTE WATER RE-CYCLE & RE-USE, CONTRIBUTING SIGNIFICANTLY TO REDUCING WASTAGE OF WATER AND HENCE REDUCING LOAD ON FRESH WATER USAGE.

OUR MISSION

“TEAM ENIPL” IS DRIVEN BY A SINGULAR MISSION TO REDEFINE HOW WASTEWATER IS TREATED AND MANAGED IN INDIA BY PROVIDING SOLUTIONS WHICH ARE BOTH EFFICIENT AND ENVIRONMENTALLY SUSTAINABLE!

TECHNOLOGIES WE OFFER

- ⇨ MBR (MEMBRANE BIO-REACTOR)
- ⇨ MBBR (MOVING BED BIO-FILM REACTOR)
- ⇨ ASP (ACTIVATED SLUDGE PROCESS)
- ⇨ ZLD (ZERO LIQUID DISCHARGE)
- ⇨ FOR TERTIARY TREATMENT WE OFFER:
 - MGF, ACF, SOFTENER
 - REVERSE OSMOSIS (RO)
 - ULTRA FILTRATION (UF)
 - NANO FILTRATION (NF)
 - OZONATOR / UV
- ⇨ CHLORINE DI-OXIDE DISINFECTION

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(‘IN-SITU’ CHLORINE DIOXIDE (CLO₂) GENERATOR) CLO₂ EFFECTIVELY REMOVES BACTERIA & VIRUSES OWING TO ITS STRONG OXIDISING EFFECT. UNLIKE HYPO & ELEMENTAL CHLORINE, CLO₂ DOES NOT PRODUCE CANCER CAUSING BY-PRODUCTS AND IS CONSIDERED SAFE FOR THE ENVIRONMENT. APPLICATION: (1) PULP & PAPER INDUSTRY ISSUES LIKE PAPER BREAKAGES, SLIME & ODOUR ARE SUBSTANTIALLY REDUCED WHICH ASSURES ENHANCEMENT IN PAPER PRODUCTION AS WELL AS IMPROVING PAPER QUALITY WHICH LEADS TO REDUCING WASTAGE. OTHER APPLICATION: (2) WASTEWATER TREATMENT (3) DRINKING WATER PURIFICATION (4) SURFACE DISINFECTION (5) AIR PURIFICATION (6) FOOD SAFETY (7) MEDICAL APPLICATION AND SO ON.

OFFICE

F 90/1, Plot No.1, 1st Floor, Okhla Industrial Area, Phase 1, New Delhi- 110020

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ENERGENIC

Leading to Power



Amrinder Singh
Co-Founder



Sandeep Singh
Co-Founder

Energenic Batteries: Leading the Future of Energy Solutions

Energenic Batteries is an independent company and a top name in the battery industry in India. We focus on providing high-quality battery solutions and exceptional service through our extensive network. Our aim is to deliver innovative energy solutions that support our customers' success. With our advanced technology, we offer the best quality batteries that are reliable, cost-effective, and sustainable for homes and businesses. By working closely with strategic partners, we meet the unique needs of customers around the world. Our goal is to become a leader in the future of the energy industry.

Integrated Energy Solutions

At Energenic Batteries, we manufacture high-performance lithium-ion batteries that are intelligent, affordable, and eco-friendly. Whether for solar, automotive, or medical applications, our batteries meet diverse needs. As the battery market in India rapidly expands, we are committed to providing integrated energy solutions with storage and lithium batteries. Our brand is recognized as one of the best in India, known for powering devices with expertise and cutting-edge technology. We proudly design and manufacture lithium battery packs right here in India.

Our Manufacturing Facility

Energenic's manufacturing facilities are state-of-the-art, adhering to the best practices of Kaizen and Six Sigma for continuous improvement and quality management. Our skilled team of engineers and technicians ensures that every product meets the highest quality standards.

Our Mission

To provide advanced, high-tech battery solutions to our valued clients—taking one step towards a greener future.

Our Vision

To lead the future of energy by delivering innovative, sustainable battery solutions that empower our customers. Through advanced technology and strategic partnerships, we provide reliable, high-quality energy solutions for diverse applications, supporting a more sustainable world.

Our Business Philosophy

- Flexible and Cost-Effective Solutions
- Innovative Design with Futuristic Technology
- Tailored Solutions to Meet Specific Client Needs

Our Solutions

Solar Applications: With the growing popularity of solar energy, we offer top-notch solar batteries to support renewable technology.

Solar Street Light Batteries: Our company is committed to providing top-quality solar LED street light batteries that offer unmatched durability, efficiency, and ease of use. Designed with elegance in mind, our batteries are simple to install and require minimal maintenance, making them an ideal choice for a variety of applications.

Telecom: We provide reliable power solutions to meet the demands of the telecom sector, ensuring seamless communication.

Medical Devices: We understand the need for portable, efficient batteries in medical devices and provide customized solutions for the healthcare industry.

Electric Vehicles: Our electric-vehicle batteries (EVBs) are designed to power the propulsion systems of battery electric vehicles (BEVs), supporting the shift towards sustainable transportation.

At Energenic Batteries, we are committed to creating energy solutions that empower our customers and contribute to a more sustainable world.



ENERGENIC

Leading to Power

Lithium Battery Pack Solution

- SOLAR ENERGY STORAGE
- EV BATTERIES
- TELECOM SOLUTIONS
- HOME / UPS SOLUTION
- ALL TYPES OF SOLAR STREET LIGHTS & BATTERIES



ENERGENIC BATTERIES

15A/2, Industrial Area, Rajiv Gandhi Colony, NIT, Faridabad (HRY) - 121001
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CONTACT US

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By Owner

He has graduated in Electrical and Electronics Engineering from UPT University. He is Innovator, Artist, and Entrepreneur. He has an Endeavour of learning and Knowing new things.

RST ECOENERGY PRIVATE LIMITED is an innovative startup specializing in the manufacturing of high-quality ARCHITECTURAL | COMMERCIAL | RESIDENTIAL | INDUSTRIAL | AUTOMOTIVE LED Lights and solar products, along with electronics PCB designing and development.

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We're proud to be an ISO 9001:2015 certified, MSME ZED unit, and nd recognized Jas a startup by the Government of India and UP. Our products are sold across India, Our commitment to excellence is reflected in our partnerships with leading companies like Rellance, Aditya Birla Group Tata, Adani , Mahindra Defence, Jaypee Group, KCP Cements, Jindal group, Lloyds Metal, Arihant Duraplast, Arvind Ltd and many more, we proudly serve both state and central government, Including PSU.

The entire range of products Is **MADE IN INDIA** with high quality and ensuring compliance with International quality standards Let's work together to drive sustainable energy solutions forward!

Mobile Tower Light with Battery Operated/Solar/Generator based - it is used in many industries for lighting purpose.

Pole Height - 15 mtr to 11 mtrs in Automatic motorised and Winch Mechanism.

Pole Types- Hand Operated, Manual Winch Mechanism, Motorized, Pheumatic.

Power- Generator Based, Solar Based, Battery Based.



RANJEET SINGH
Founder & CEO

Inflatable Emergency Tower Light System is most ideal for emergency response illumination. This compactlight weight light can be affixed to any apparatus or carried by hand at any place where lighting is required. The light consists of a rugged base unit which houses a blower and control panel and an inflatable fabric Towerwhich houses the bulb.

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Revolving Search Light for Watch Tower(CS Mounted, Tripod Stand Mounted , UDCA Stand, Motorized Automatic Lights, Centralized Control Revolving Search Light, Synchronized Revolving Search Light with PTZ Its working is 12VDC to 24VDC Base-Magnetic / Screw based.



EOT Crane Safety Light for Industries- Working with heavy machinery, especially overhead cranes, can be extremely hazardous. The fast-paced environment and noise of the factory floor make it challenging for workers and bystanders to remain aware of their surroundings at all times.

Customized Designed Based LED Bollard- we are manufactured custom based designed led bollard as per project and customer requirement with high quality of material.

Remote Area Portable Light -portable, high-power lighting system designed for outdoor or on-the-go lighting needs. Battery operated emergency and Portable lighting system

Award

1. NES Innovation Award
2. Anjani Mashelkar Innovation Award
3. Guinness world record holder
4. Campus Innovation Award
5. Indian Initiative Innovataion Award
6. Marriott Young Entrepreneur

Conference

1. National Conference on Emerging Trends in Electrical, Instrumentation & Communication Engineering 2012
2. International Confrence on Modelling of Engineering & Technological Problem 2009
3. World Hydrogen Technology Convention - 2009

Featured

4. Mathematics in Science & Technology -2010
5. National Conference on Solar Power - The Most Promising Solution to Future Energy Crisis
6. Roundtable workshop on Clean technology & India's Vision

1. Toothless
2. Hindustan Times
3. Economic Times
4. Times of India
5. Employability Times
6. Dainik Jagran
7. Hindustan

RST Product

- * Inflatable Tower Light in Metal Hallide /LED
- * Revolving Search Light - CS Mounted / Tripod/UDCA
- * Motorised Revolving Search Light with Remote Operated / KEY Board & Control Room Operation
- * Van Mounted Revolving Search light with Remote
- * IR Illuminator / IR Search Light
- * Remote Area Portable Light
- * Rechargeable Flood Light-Tripod Mounted / Grounded
- * Mobile Tower Light
- * Flame Proof Well Glass / Well Glass
- * Hibay Light/Street Light/ Flood Light

- * Panel Light / Focus Light/Concealed Light
- * Industrial Retrofit 300W Corn Bulb
- * EOT Crane Safety Light
- * Solar Street Light
- * Torch/Flashlight
- * Emergency Industrial Lights
- * Bulb/Tube light
- * EOT Crane Safety Light / Forklift Safety Spot / ARC Light
- * Wall Washer light
- * Sensor Based Light





Welcome to **Macsun Technologies Private Limited**, your trusted partner in water and wastewater management solutions.

Established in 2017 we specialize in providing high quality equipment and innovative technologies to support sustainable water practices across various industries. At Macsun Technologies Private Limited, we understand the critical importance of clean water and effective wastewater treatment.

Sludge dewatering screw press machine.

A sludge dewatering screw press machine is an important component in wastewater treatment plants, used to separate water from sludge



Sludge Inlet	Screw Mechanism
Filtration	Pressure Application
Dewatered Sludge Discharge	

Sequencing Batch Reactor

A Sequencing Batch Reactor (SBR) is an innovative type of wastewater treatment system that operates in batch mode, allowing for efficient processing of sewage and industrial effluents.



Fill Phase	React Phase
Settle Phase	Draw Phase
Idle Phase	



Dissolved Air Flotation (DAF)

Dissolved Air Flotation (DAF) is an effective water and waste water treatment process that removes suspended solids, oils, and other contaminants from water.

Industrial Wastewater Treatment	
Municipal Water Treatment	Stormwater Management



Oil Skimmer

An oil skimmer is a device used to remove oil from water surfaces, particularly in wastewater treatment and environmental cleanup operations.

Belt Skimmers	Tube Skimmers
Floating Drum Skimmers	Suction Skimmers



Mechanical Bar Screen

A mechanical bar screen is an essential component in water and wastewater treatment plants. Its primary function is to remove large solids and debris from incoming water.

Screening Process	Automatic Operation
Static Bar Screens	Mechanical Bar Screens



Rotary Drum Screen

A rotary drum screen is a crucial component in wastewater treatment, primarily used for the preliminary screening of influent to remove large solids and debris.

Separation	Self-Cleaning	Effluent Quality
------------	---------------	------------------



Basket Type Centrifuge

A basket type centrifuge is a type of separation equipment used in water and wastewater treatment processes.

Sludge Dewatering	Solid-Liquid Separation
Clarification	

MACSUN TECHNOLOGIES PRIVATE LIMITED



6/2 basai industrial area basai village gurgaon haryana 122001.

A BOON FOR CONSTRUCTION SECTOR

IDEAL FOR INDUSTRIAL AND COMMERCIAL USE, PRE-ENGINEERED BUILDING SYSTEMS OFFER PRECISION, REDUCED WASTE, AND ECO-FRIENDLY SOLUTIONS FOR A BETTER TOMORROW

GIRISH DUTT SHUKLA

Technological advancements over the years have introduced mankind to a wide variety of new products and services that have contributed immensely to improving the quality of life. One such innovation is the construction of buildings using pre-engineered systems. Although the origin of these systems can be traced back to the 1960s, it wasn't until recent years that India started realising its potential.

The concept of pre-engineered systems was introduced to the Indian market in the late 1990s when some multinational companies started setting up their projects in the country with the

opening of the Indian economy.

"The PEB sector is growing at 20 per cent due to strong demand from industrial and infrastructure sectors as well as from traditional users of RCC/structural steel buildings that are now converting to modern technologies like PEB," says Everest managing director, Manish Sanghi, regarding the growth of pre-engineered building systems.

The pre-engineered building market is expected to grow at a rate of 13.5 per cent CAGR in the next five years. The industry, which generated a revenue of \$1,841.7 million in 2024, is predicted to reach \$3,932.6 million by 2030.





SINCE THE MANUFACTURING PROCESS OF PRE-ENGINEERED BUILDING SYSTEMS IS METICULOUSLY STREAMLINED, IT RESULTS IN AN ACCELERATED PRODUCTION PACE AND REDUCED MATERIAL WASTE. THIS HELPS MANUFACTURERS AND CONSTRUCTION COMPANIES WITH COST SAVINGS. IN COMPARISON TO THE TRADITIONAL CONSTRUCTION METHODS, ON-SITE ASSEMBLY OF THESE COMPONENTS IS FASTER, LEADING TO SHORTER PROJECT TIMELINES AND REDUCED LABOUR COSTS. THIS ENABLES FASTER RETURNS OF INVESTMENT AS MANUFACTURERS CAN EXPECT QUICKER OCCUPANCY OF BUILDINGS



THE PRE-ENGINEERED BUILDING MARKET IS EXPECTED TO GROW AT A RATE OF 13.5 PER CENT CAGR IN THE NEXT FIVE YEARS. THE INDUSTRY, WHICH GENERATED A REVENUE OF \$1,841.7 MILLION IN 2024, IS PREDICTED TO REACH \$3,932.6 MILLION BY 2030

While industrial buildings were the largest revenue-generating application segment in the previous year, commercial buildings are expected to be the most profitable and fastest-growing segment during 2025-2030.

Manufacturing of pre-engineered systems involves employing advanced technology and machinery to develop precise and high-quality components. Typically crafted out of steel, the production of these components calls for a great deal of attention to processes such as cutting, welding, and painting to meet the stringent design requirements. Upon completion of fabrication, they are transported to the construction site, where they are assembled with the help of cranes or heavy equipment. This method has proven to reduce the time and efficiency constraints that are often associated with traditional approaches where each component has to be constructed on-site.

Since the manufacturing process of pre-engineered building systems is meticulously streamlined, it results in an accelerated production pace and reduced material waste. This helps manufacturers and construction companies with cost savings. In comparison to the traditional construction methods, on-site assembly of these components is

faster, leading to shorter project timelines and reduced labour costs. This enables faster returns of investment as manufacturers can expect quicker occupancy of buildings.

"The market for pre-engineered steel construction is growing exponentially in India with consumers opting for new-age technologies for quality and speedy construction," highlights Gautam Suri, founder and director of Interarch.

Thanks to the application of technological innovations and the latest machinery in the manufacturing process, the resulting components conform to needed specifications and dimensions, and high-quality standards. This kind of precision in detail promotes an accurate and error-free production process, further reducing the delays that are often seen in traditional construction methods. Additionally, as these systems are being manufactured in a controlled environment, it can be guaranteed that they will be unaffected by any climatic conditions or other external factors. This leads to the production of a more resilient and durable component.

In an era where the world is shifting towards environmentally safe practices and measures, pre-engineered building systems



disassembled easily, these products can be repurposed. This practice facilitates the reduction in construction wastes that often end up in landfills. The sustainability factor projects pre-engineered building systems not only as an ecologically sound method but also as a cost-effective choice.

In a highly polluted city like Delhi, where air quality enters the 'severe' category almost every winter, pre-engineered building systems seem to be the way forward to reduce air pollution. Focussing on the implementation of such long-term greener practices will aid India in achieving its net zero carbon emissions target.

"Traditional construction significantly contributes to city pollution, with approximately 30 per cent of air pollution in Delhi attributed to dust from construction sites. On a global scale, the construction sector is responsible for 25 per cent to 40 per cent of carbon emissions. Basically, the addition of PM 2.5 particulates in the environment worsens the situation," said Nikhil Bothra, director, EPACK Prefab.

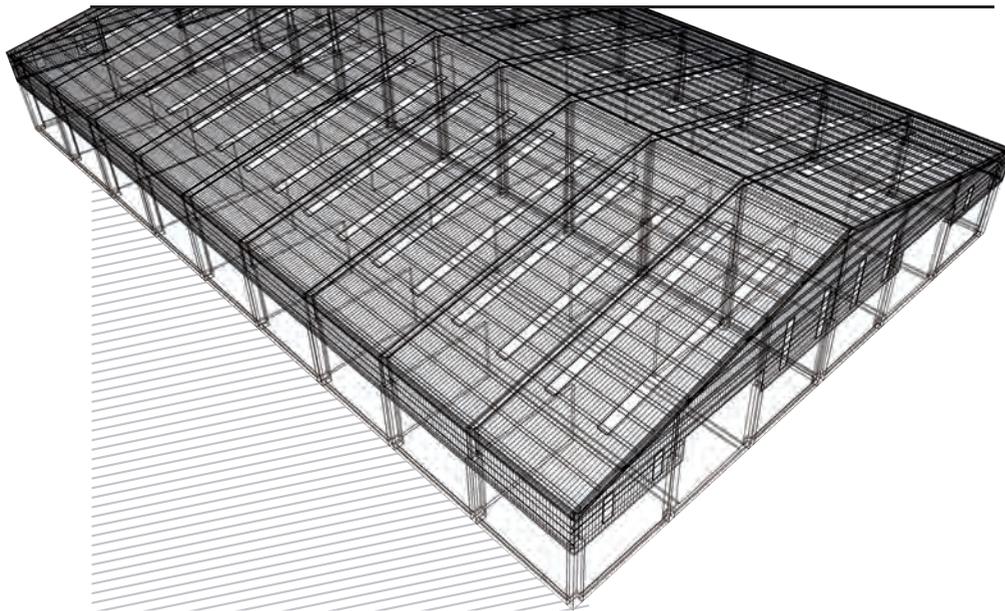
Government initiatives like Make in India and the rise in Foreign Direct Investment (FDI) in the country are expected to have a positive influence on the country's construction sector, thus offering a fertile ground for the expansion of the pre-engineered building systems market. The affordability coupled with ease of access and versatility makes pre-engineered building systems ideal for various applications—ranging from commercial structures to industrial complexes.



are the ideal construction solution that promotes sustainability. Unlike traditional construction methods, the pre-engineered building systems follow a more conservative use of resources. Furthermore, the waste generation in their manufacturing process is minimal. As they can be assembled and

BUILDING BLOCKS OF THE FUTURE

PRE-ENGINEERED BUILDINGS (PEBs) ARE REVOLUTIONISING CONSTRUCTION WITH INNOVATIVE AND VERSATILE SOLUTIONS



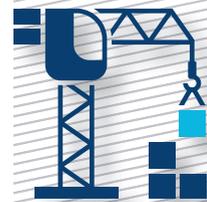
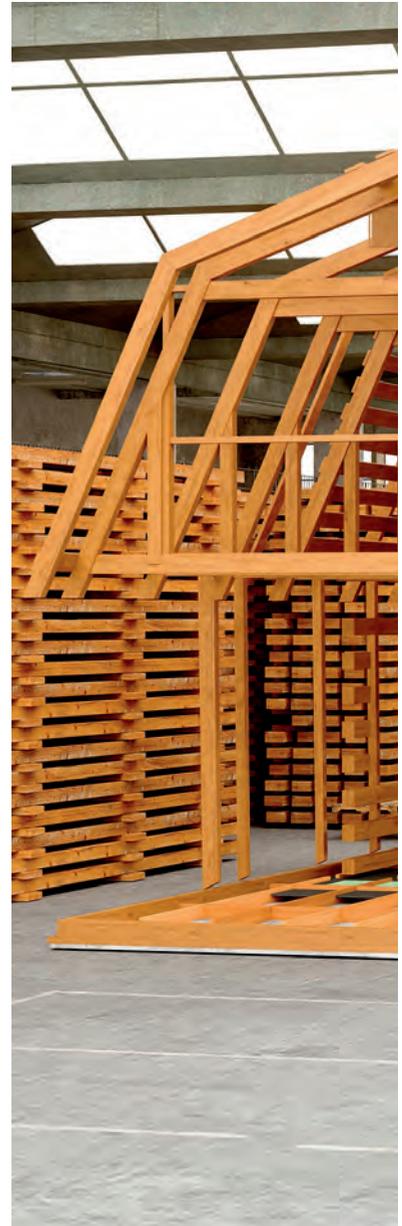
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Pre-engineered buildings (PEBs) present various opportunities for innovation. New construction techniques and advancements in technology have made PEBs more efficient, versatile, and sustainable. PEBs are structures built with the help of prefabricated components, often referred to as modular construction systems. The primary framework of these components is made from steel. The design is customised according to project requirements with the help of technologies such as computer-aided design (CAD),

STAAD, etc. These designs accommodate various architectural styles and functional requirements, ensuring that each building is optimised for its intended use. Pre-engineered structures, often referred to as prefabricated, modular, or prefab buildings, are transforming the construction industry by offering advantages that far surpass those of traditional methods.

ADVENT IN INDIA

PEB started as a Western concept. It found its way to India in the late 20th century. It was initially





adopted by industrial sectors in need of clear-span spaces such as warehouses and factories. Cost efficiency, quick construction and flexibility led to a steady increase in the popularity of PEB systems. The early 2000s were a turning point as economic liberalisation, along with a booming industrial sector, solidified PEB's position in the market. The Indian market realised PEB's potential to revolutionise traditional construction methods. India's construction landscape has undergone a remarkable transformation in recent years, driven by the growing prominence of pre-engineered buildings (PEB).

NUMEROUS APPLICATIONS

PEBs have proved incredibly versatile in their application. They are widely used in industrial settings such as factories, warehouses, and distribution centres. Their durability, large clear-span spaces, and cost-effectiveness make them ideal for these purposes. Many commercial establishments, including shopping malls, office buildings, and retail stores, are opting for pre-engineered building structures. The flexibility in design allows these buildings to be tailored to specific business needs and aesthetics. The robustness and scalability of PEBs make



PEBs ARE INCREDIBLY VERSATILE IN THEIR APPLICATION. THEY ARE WIDELY USED IN INDUSTRIAL SETTINGS SUCH AS FACTORIES, WAREHOUSES, AND DISTRIBUTION CENTRES. THEIR DURABILITY, LARGE CLEAR-SPAN SPACES, AND COST-EFFECTIVENESS MAKE THEM IDEAL FOR THESE PURPOSES. MANY COMMERCIAL ESTABLISHMENTS, INCLUDING SHOPPING MALLS, OFFICE BUILDINGS, AND RETAIL STORES, ARE OPTING FOR PRE-ENGINEERED BUILDING STRUCTURES



MODULAR CONSTRUCTION HAS FURTHER ACCELERATED PROJECT TIMELINES BY FABRICATING ENTIRE SECTIONS OFF-SITE FOR QUICK ON-SITE ASSEMBLY, CUTTING COSTS AND IMPROVING FLEXIBILITY. PREFABRICATED FACADES AND MODULAR COMPONENTS ENHANCE BOTH THE AESTHETICS AND FUNCTIONALITY OF PEBS

them suitable for handling large equipment and storing crops. They further find use in building sports complexes, gyms, community centres, schools, hospitals, and government buildings, and other infrastructure projects. "India's growing adoption of pre-engineered buildings is a testament to their versatility and efficiency. This approach is bridging the gap between affordability and innovation in infrastructure development," shares Anita Deshmukh, urban planner.

GROUND-BREAKING INNOVATIONS

With the passing of time and changing technologies, the sector is witnessing a myriad of innovations. The pre-engineered construction industry is undergoing a remarkable transformation, driven by cutting-edge innovations and sustainable practices. Smart materials like self-healing concrete and thermochromic coatings enhance energy efficiency and adapt to environmental conditions, ensuring comfort and reducing energy consumption. PEBS are being designed to meet green building standards, incorporating energy-efficient insulation, solar panels, rainwater harvesting systems, and recyclable materials to minimise carbon footprints and promote eco-friendly construction. Ramesh Gupta, a structural engineer, shares, "The integration of advanced technologies like BIM and smart materials is not just a trend but a necessity for the PEBS industry to meet modern construction demands while staying sustainable."

Advanced technologies such as Building

Information Modelling (BIM) have revolutionised the design process, enabling precise 3D modelling for improved accuracy, better collaboration, and lifecycle management. Modular construction has further accelerated project timelines by fabricating entire sections off-site for quick on-site assembly, cutting costs and improving flexibility. Prefabricated facades and modular components enhance both the aesthetics and functionality of PEBS.

Automation is another key trend, with smart systems for lighting, climate control, and security becoming standard, making buildings safer and more energy efficient. The industry's focus on customisation allows for adaptive designs and innovative finishes, creating visually striking and purpose-specific structures. With computer-aided design and advanced fabrication techniques,



PEBs are now tailored to diverse needs, positioning the industry at the forefront of sustainable and efficient construction.

PRE-ENGINEERING THE FUTURE

India's PEB market is experiencing rapid growth, fuelled by demand across warehouses, factories, commercial spaces, and residential projects. Steel buildings are at the forefront, offering cost-effective, sustainable, and versatile construction solutions. Driven by advancements like modular construction, energy-efficient designs, and smart automation, the sector is revolutionising modern construction. "Pre-engineered buildings are shaping the future of construction by reducing project timelines, costs, and environmental impact. Their potential to redefine urban landscapes is immense," says Vikram Mehta, managing director of a real estate firm. Leading players are setting new standards in innovation and sustainability. With a focus on quality and cutting-edge technologies, these players are poised to shape India's infrastructure future, making steel building construction a cornerstone of the country's modernisation efforts.





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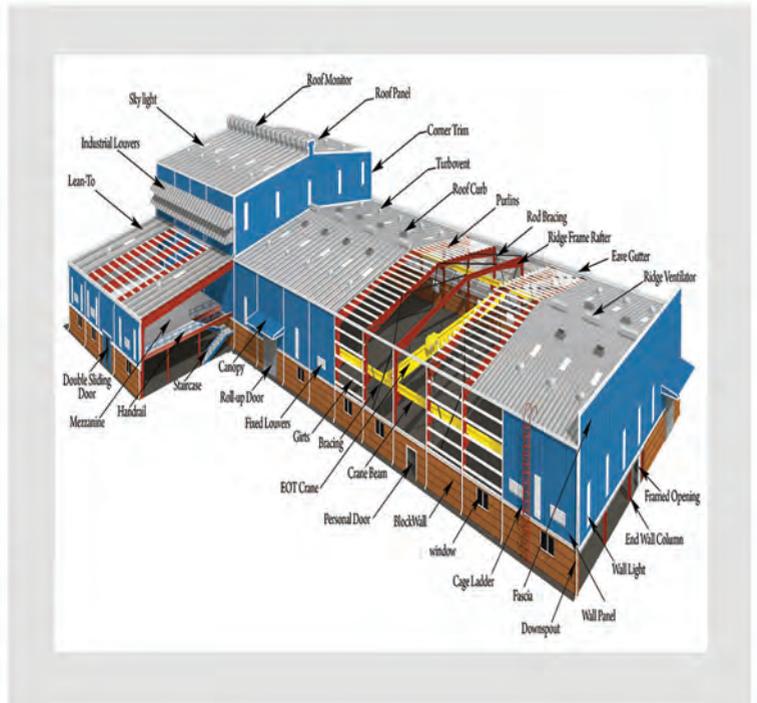
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ABOUT US MIPL

As a leading PEB manufacturer MIPL. Provides the complete service of engineering and fabrication this ensuring better quality control at every stage of the process. We have long industrial experience in MIPL Pre-engineered Steel Construction Solution provider in India with incorporated facilities for design, manufacturing, logistics, and supply and project execution capabilities for pre-engineered steel buildings. For today and in the future, Steel has become the material of choice the current & future of building construction, compared to concrete and timber.



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VISION

MIPL Projects vision becomes a steel buildings projects, Industrial buildings, Cold storage, Warehouses, Multistory buildings, Heavy Structure and Mezzanine floors.

MISSION

MIPL Projects mission to offer work with high quality like International Standards within give time line.

VALUES

MIPL Project Strictly Fellow The Values -

- Punctuality
- Trust
- Empowerment
- Commitment with Job
- Teamwork
- Honesty
- Respect
- Courage



CRANES SYSTEM:

CRANE systems in building. There are various types of crane systems used in Industry for various purposes such as EOT overhead crane, Overhung/under-slung crane system, Monorail crane system etc. Alignment of crane beams is very important, the centres of the crane beam webs should be equal to the centres of the crane wheels, and the maximum tolerance is 10mm.

MEZZANINES FLOOR :

MIPL PROJECTS mezzanine framing system consists of a steel deck supported by joists framed on to main mezzanine beams. If required by design loads, the main beams shall also be supported by intermediate columns. The top flange of the joists fits immediately below the top flange of the primary beam.



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To Convert clients' requirements into clearly defined end products. To ensure the timely delivery of products to the right destination. To deliver trusted quality, contributing to the development of both society and industry

VISION

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Palisade Fencing Channel



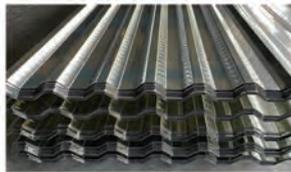
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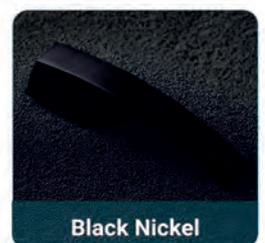
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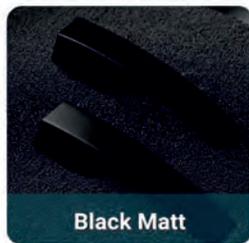
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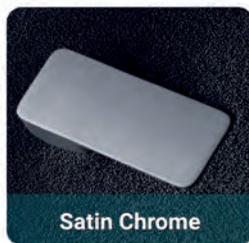
Black Nickel



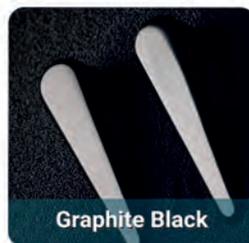
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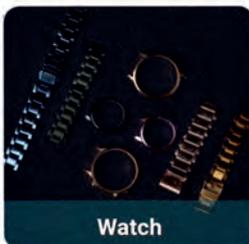
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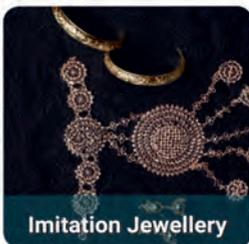
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Decorative



Watch



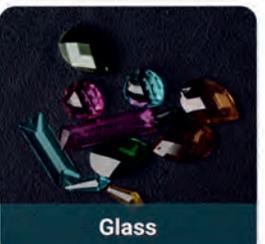
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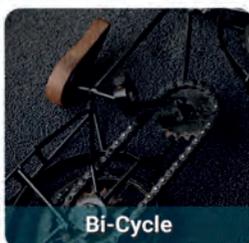
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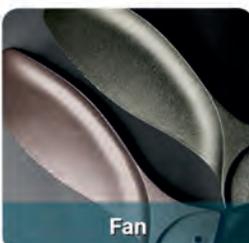
Eye Wear



Glass



Bi-Cycle



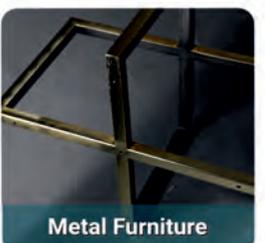
Fan



Hardware



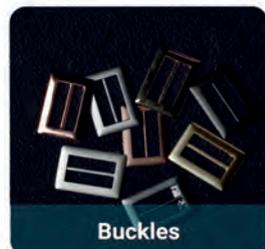
Bottles



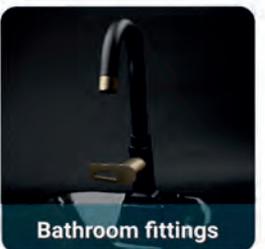
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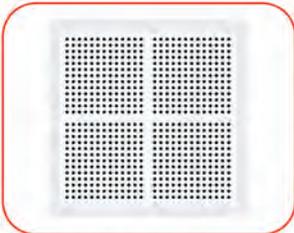


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Standard Gypsum Board



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GYPSTAR INDIA's corporate office is located in Delhi, with regional offices in Kolkata and branch offices in Guwahati, Morbi (Gujarat), and Patna. The company primarily manufactures its products in India, while some items are imported from various countries. It serves the Indian market through a well-established network of distributors and dealers across more than 100 cities, ensuring timely delivery and quality service.



Jointing & Finishing



Metal Ceiling Tiles

The company's strength lies in its robust base of dealers and distributors, enabling it to offer top-quality products at competitive prices. This has garnered an excellent response from the Indian market, leading to professional satisfaction and sustained growth. As a result, GYPSTAR INDIA's products are witnessing increasing demand, and the brand continues to evolve as a trusted name in the industry.



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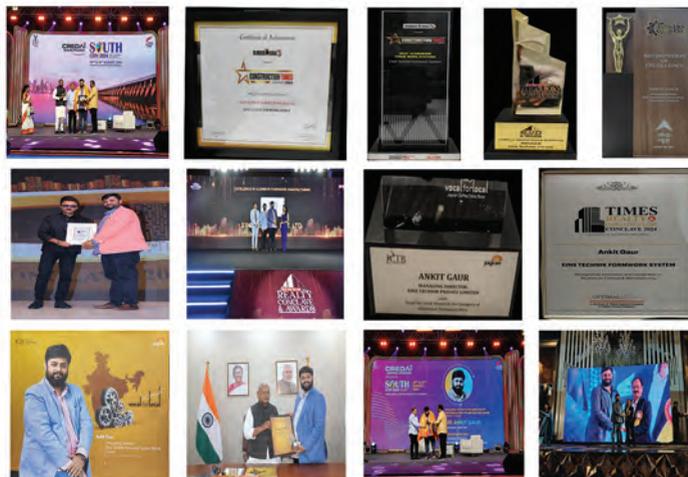
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THE RISE OF SPECIALIZED PLUMBING IN INDIA:

Mitarth India (P) Ltd.

Unveiling Duromax's ANTIFREEZE® Pipes



Rishi Mittal
CEO

India's diverse climate, from the scorching deserts of Rajasthan to the icy terrains of Kashmir, Leh, and Ladakh, poses unique challenges for infrastructure, particularly plumbing systems. While most areas enjoy moderate conditions, regions experiencing sub-zero temperatures face recurring plumbing issues. Traditional pipes often crack, shatter, or freeze below zero degrees, causing frequent

disruptions, high maintenance costs, and immense inconvenience for residents and industries. Addressing these challenges, Duromax has introduced ANTIFREEZE® Pipes — India's first plumbing solution specifically engineered for extreme cold climates.

Regions like Kashmir and Ladakh, where temperatures can drop below -10°C , have long struggled with inadequate plumbing systems. Traditional pipes, with a glass transition temperature (T_g) between -3°C and -4°C , lose flexibility, becoming brittle and prone to shattering. This has resulted in persistent water supply issues, high repair costs, and frustration for residents. While competitors focused on mass-market solutions, Duromax prioritized solving this critical problem.

Backed by decades of expertise, Duromax, a trademark of Mitarth India Pvt Ltd, has been a leader in the plumbing industry since 1993. Under the leadership of Prem Chand Mittal and CEO Rishi Mittal, the company has consistently innovated, from introducing PPR Pipes in 2003 to becoming a top manufacturer of blow-molded water tanks in Delhi. Recognizing the specific needs of sub-zero regions, Duromax collaborated with Dr. Ashok Gupta (PhD, Polymers) and international experts to develop ANTIFREEZE® Pipes, built with patent-pending technology after two years of rigorous R&D.

The revolutionary ANTIFREEZE® Pipes overcome the limitations of traditional systems by achieving a glass transition temperature far below conventional materials, ensuring unbreakable performance even at -35°C . These pipes combine the leak-proof welding of PPRC pipes with advanced engineering polymers, offering superior durability, impact resistance, and uninterrupted water flow. The use of improved thermoplastic resin-based materials allows thinner walls and larger bore sizes, addressing common challenges in sub-zero plumbing systems.

For homeowners, industries, and government projects in extreme climates, ANTIFREEZE® Pipes offer a cost-effective, long-term solution, significantly reducing maintenance



costs and ensuring reliable water supply. Contractors like Nadeem Ahmed Khan have praised their impact strength and weldability, highlighting their superiority over traditional PPR pipes.

The introduction of ANTIFREEZE® Pipes marks a milestone in India's plumbing industry, providing a robust solution for regions where conventional systems fail. Recognized with the "Most Innovative Product of the Year" Award in 2024, this product reflects Duromax's dedication to solving real-world challenges. With ANTIFREEZE® Pipes, Duromax invites stakeholders across the industry to join this revolution in plumbing innovation and ensure reliable infrastructure even in the harshest climates.

Discover how ANTIFREEZE® Pipes can transform your projects.

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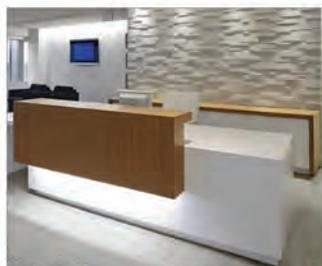


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INDIA AIMS TO BECOME A LEADER IN ELECTRONICS MANUFACTURING

INDIA IS TRANSFORMING INTO A GLOBAL POWERHOUSE, DRIVEN BY INNOVATION AND GOVERNMENT INITIATIVES

GIRISH DUTT SHUKLA



Fuelled by favourable government initiatives and the growth of the country's digital market, India is on the right path to building a strong and empowered electronics industry. As the demand for technologically advanced electronic devices and applications continues to grow, India has emerged as a manufacturing

hotspot in the global electronics landscape. The Government of India has introduced various policies that contribute to this transformative boom of the electronic industry in the country. These efforts include incentives to support domestic production, policy frameworks to promote key sectors, and the creation of specialised hubs. In line with its vision of *Aatmanirbhar Bharat* or 'Self-Reliant India', an announcement was made of the



INITIATIVES AND SCHEMES SUCH AS MAKE IN INDIA, SEMICONDUCTOR MISSION, PRODUCTION-LINKED INCENTIVE (PLI) SCHEME, MODIFIED ELECTRONICS MANUFACTURING CLUSTERS (EMC), AND NATIONAL POLICY ON ELECTRONICS (NPE) HAVE MANAGED TO ATTRACT BOTH DOMESTIC AND FOREIGN INVESTMENT

country's ambition of achieving a \$500 billion target in electronics manufacturing by 2030.

"Our share in the global trade in manufacturing is negligible, so there is ample room for growth. Electronics, on its own, has a global trade worth \$5 trillion. Given the pace of digitalisation the world over, it is only going to grow, and this is something India should be after," says Banmali Agrawala, chairman of Tata Electronics.

Initiatives such as Make in India, Semiconductor Mission, Production-Linked Incentive (PLI) Scheme, Modified Electronics Manufacturing Clusters (EMC), and National Policy on Electronics (NPE) have managed to attract both

domestic and foreign investment.

Highlighting the government's support in making India a global hub for electronics production, Sunil Vachani, president of Consumer Electronics and Appliances Manufacturers Association (CEAMA), says, "Initiatives such as the production-linked incentive (PLI) schemes and Make in India have been instrumental in enhancing domestic manufacturing and attracting global investments."

These transformative movements and policies are aimed at providing financial aid for the manufacturing of electronic components, including semiconductors and smartphones. The success of these programmes will position India as one of

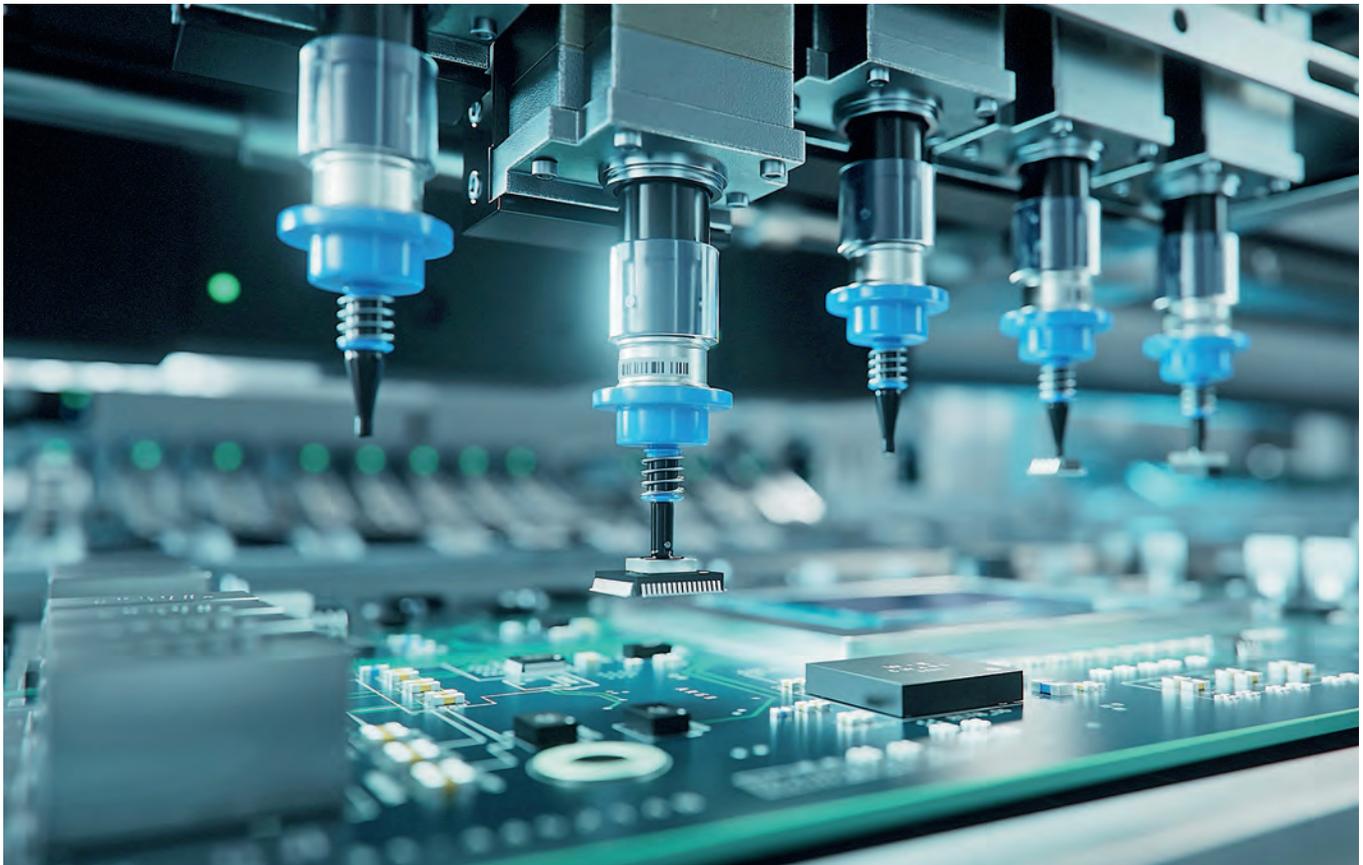
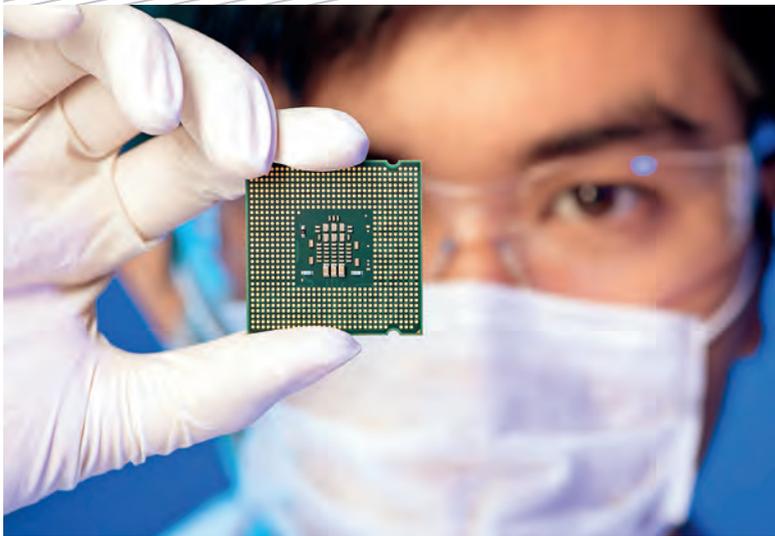
the most cost-effective and reliable manufacturing hubs in the global market. The policy reforms and economic incentives have boosted foreign investments in India. For instance, large multinational corporations such as Apple, Samsung, and Dell have begun production operations in India.

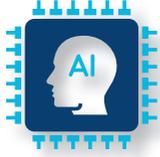
A crucial component in India's strategy to enhance manufacturing and address employment challenges is reducing the reliance on imports. For years, India has been dependent on countries like China to meet its electronic market demands. This focus on promoting domestic manufacturing has led to the creation of jobs and boosting economic growth.

The local production of key components such as printed circuit boards (PCBs), capacitors and displays has helped in lowering this import dependency. The growing emphasis on research and development (R&D), and the introduction of government schemes and programmes to promote skill development have contributed to improving the nation's export potential.

Additionally, strategic partnerships fostered amongst Indian manufacturers and foreign technology leaders have benefitted in the form of skill development and technology transfer. These collaborations play a key role in maximising the country's manufacturing capabilities and solidifying its position in global supply chains.

Special Economic Zones in states like Tamil Nadu, Uttar Pradesh, and Karnataka have provided businesses access to world-





AI-DRIVEN AUTOMATION TOOLS AND ROBOTICS SYSTEMS ARE NOW FEATURED IN VARIOUS MANUFACTURING PROCESSES TO MEET HIGH-QUALITY STANDARDS AND ENSURE QUICKER AND PRECISE ASSEMBLY

class infrastructure, ensuring both operational efficiency and scalability. Today, thanks to these developments, global manufacturers recognise India as an ideal destination for production facilities.

As the Indian electronics manufacturing industry is witnessing an evolution, the advancements in technology are shaping its future. With the introduction of 5G networks into the market, there is a high demand for 5G-enabled devices and IoT applications, encouraging manufacturers to adapt to these technological innovations. Driven by this trend, demand for IoT devices, including smart wearables and metres, is expected to be on the rise.

Automation and robotics are being employed in the manufacturing industry to reduce the margins of human error and drive operational efficiency. AI-driven automation tools and robotics systems are now featured in various manufacturing processes to meet high quality standards and ensure quicker and more precise assembly.

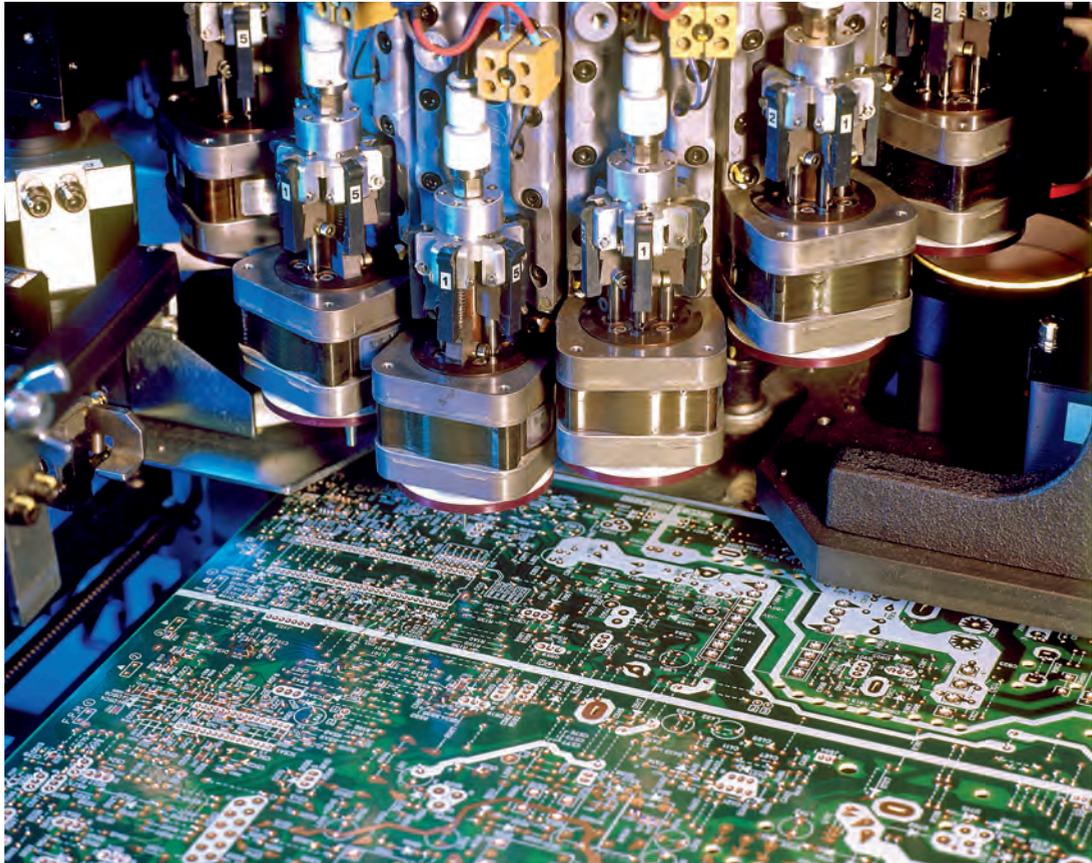
"In 2025, new-age technologies such as artificial intelligence (AI)/Internet Of Things (IoT), cloud computing, robotics, and automation to name a few, will continue to

be leveraged to democratise technological transformation and deliver smart ecosystem solutions to the consumers," says Manish Sharma, chairman of Panasonic Life Solutions India.

As the world prioritises environmental consciousness, electronics manufacturers are encouraged to switch to environment-friendly practices. To mitigate environmental degradation and help India achieve its net zero emissions goals, companies in India are increasingly adopting renewable energy sources, recycling e-waste, and following greener practices to achieve zero waste.

The emergence of startups has further accelerated growth and innovation in the country's electronic landscape. Their focus on designing and manufacturing energy-efficient and innovative products and IoT-enabled solutions that meet global market standards is enhancing India's reputation for cutting-edge R&D.

With the electronics industry focussing on enhancing domestic production, driving research and innovation, and delivering futuristic, sustainable electronic solutions, India is likely to emerge as a global leader in both electronics manufacturing and innovation in the near future.





REDEFINING ELECTRICAL ACCESSORIES FOR A SMARTER FUTURE

INDIAN MANUFACTURERS ARE REVOLUTIONISING THE INDUSTRY WITH SMART GRIDS, RENEWABLE INNOVATIONS, AND CUTTING-EDGE TECHNOLOGY

GIRISH DUTT SHUKLA

With the electrical and electronics industry estimated to reach a market valuation of \$130 million by 2030, the growth of the power equipment sector in India is a positive development for the country's economy. The expansion of the power equipment industry is driven by factors such as the switch to renewable energy, enhanced focus on sustainability, and increasing need for grid modernisation. Equipment manufacturers expect significant opportunities to emerge in areas such as renewable energy infrastructure, decentralised energy systems, and smart grid technologies. These equipment manufacturers are focussing their efforts on sustainability and innovation to capitalise on these opportunities. This



POWER EQUIPMENT MANUFACTURERS INTEGRATE ADVANCED MATERIALS INTO THESE SYSTEMS WITH THE HELP OF CUTTING-EDGE TECHNOLOGIES TO ENHANCE NOT ONLY THE EFFICIENCY BUT ALSO THE DURABILITY OF GREEN ENERGY COMPONENTS. THEY ALSO EMPLOY 'SMART' TOOLS LIKE AI, ML, IOT, AND ROBOTICS

scenario suggests that they are going to play a crucial role in shaping the future energy landscape of India.

As one of the emerging global leaders in the clean energy sector, India is taking active steps to enable systems that create sustainable energy on both micro and macro levels. The role of the component manufacturing sector is critical to achieving the nation's ambitious clean energy goals. To bring about the green transformation in India, these component manufacturers produce components for renewable systems such as solar, wind, hydro, etc.

Today, equipment manufacturers are producing the essential components that are assembled to build energy devices responsible for the generation, storage and distribution of renewable energy. For instance, component manufacturers develop parts for photo-voltaic cells or PVCs and modules that enable the conversion of solar power into electricity. They are also involved in the production of smart storage solutions like advanced batteries that maintain a reliable supply of green energy in stock.

"Sustainable energy is the future, and Gujarat's solar energy sector—industrial as well as domestic—is seeing large investments. The demand for power equipment in this sector has gone up



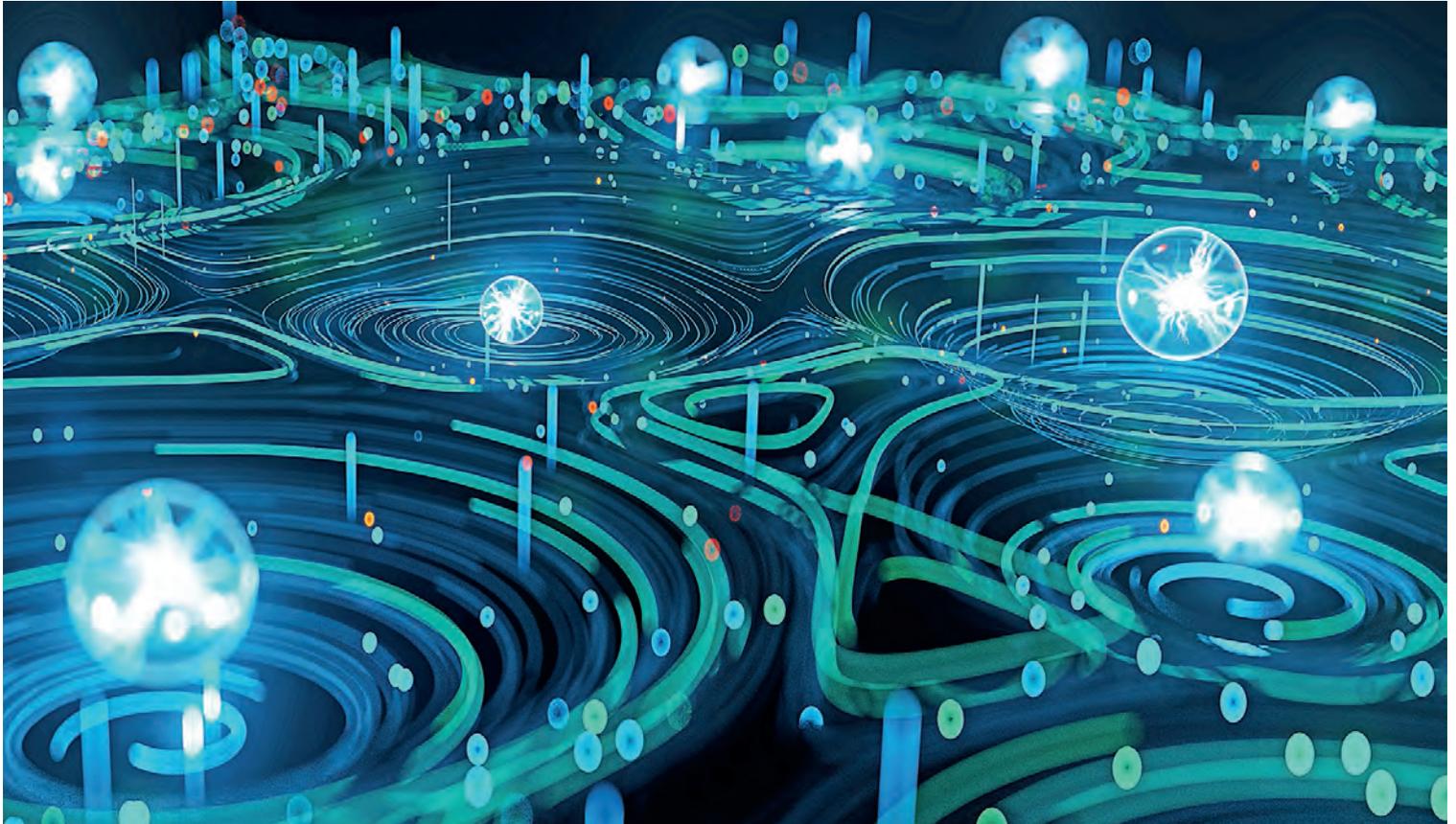
BESIDES RENEWABLE ENERGY, THE GROWTH OF THE ELECTRICAL EQUIPMENT INDUSTRY IS LINKED TO OTHER SECTORS SUCH AS RAILWAYS, DEFENCE, SMART INFRASTRUCTURE PROJECTS, REAL ESTATE, AND DATA CENTRES

considerably in the last three to four years," says Vipul Ray, managing director of Elmex Controls Pvt Ltd in Vadodara.

Another power equipment manufacturer, Sameer Khara, managing director of SEE Linkages Private Ltd., says, "Earlier, the government was a major consumer in this sector. Now, good demand is coming from the private sector as well. The demand for solar power equipment has soared in the last four years and more investment is coming into the sector."

This sector inspires technological innovation by constantly improving the performance of both new and existing renewable energy systems. Power equipment manufacturers integrate advanced materials into these systems with the help of cutting-edge technologies to enhance not only the efficiency but also the durability of the green energy components. These enterprises also employ SMART tools like AI, ML, IoT and robotics to optimise the devices' energy generation and management.





The electrical equipment sector can be broadly divided into two segments: power generation, and transmission and distribution (T&D). Both power generation and T&D equipment markets are predicted to grow in the near future. The rise in the number of green energy installations, coupled with the complexities of power transmission and distribution infrastructure have encouraged Indian equipment makers to explore the opportunities for smart solutions.

The increasing demand to replace the inefficient, unsafe, and ageing infrastructure is one of the primary factors boosting the growth of the T&D segment. Additionally, the increasing requirement for superior technology-enabled transmission and distribution networks that allow better management of power flows through the grid has paved the way for dedicated T&D infrastructure in India.

Understanding the growing need for smart grids that facilitate smooth and easy transport of electricity, Indian manufacturers have modernized the traditional power grid network with a smart grid. These modern grids, which generate and communicate data, help in enhancing the efficiency, reliability and sustainability of the electricity supply. Newly built transformers are equipped with sensors that promptly send alerts for possible system breakdowns to system operators.

“Transmission infrastructure projects are also progressing under the PM Gati Shakti National Master Plan, which aims to complete 27,000 ckt km of interstate transmission lines by 2025 for power evacuation from renewable energy sources. Projects like Powergrid’s Rajasthan Renewable Energy Zone (REZ) Phase-IV are key examples of how transmission investments are aligning with India’s goal of achieving 500 GW of renewable energy by 2030,” notes Sharan Bansal, executive director, Skipper Limited.

Besides renewable energy, the growth of the electrical equipment industry is linked to other sectors such as railways, defence, smart infrastructure projects, real estate, and data centres. On the environmental front, the industry is continuously assessing and reviewing its operations or practices to be in alignment with the government’s carbon emission policy.

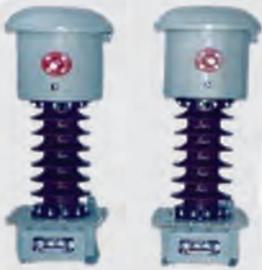
The Government of India’s support of this sector in terms of favourable policies for encouraging domestic production and protecting the electrical equipment market is one of the key reasons for the growth of the industry. Their initiatives such as Make in India, Power for All, Smart Cities, Housing for All etc. are likely to boost innovations and opportunities in electrical equipment manufacturing.

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Mr. Jain, an IIT Roorkee alumnus with over 40 years of experience in design, consultancy, and manufacturing, has led the company to success. AEPL's commitment to innovation and R&D has earned it the UDYOG RATNA award. With a global perspective, shaped by visits to international Mini Cement Plants, AEPL stays adaptable to market demands while maintaining technological excellence.



Cement Packing Machine



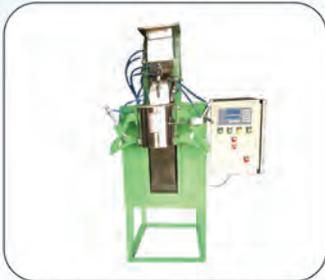
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Rice Packing Machine



Open Mouth Bag Filling Machine



Grains Packing Machine (25-50kg)



Grains Packing Machine (Vibratory Feeder)



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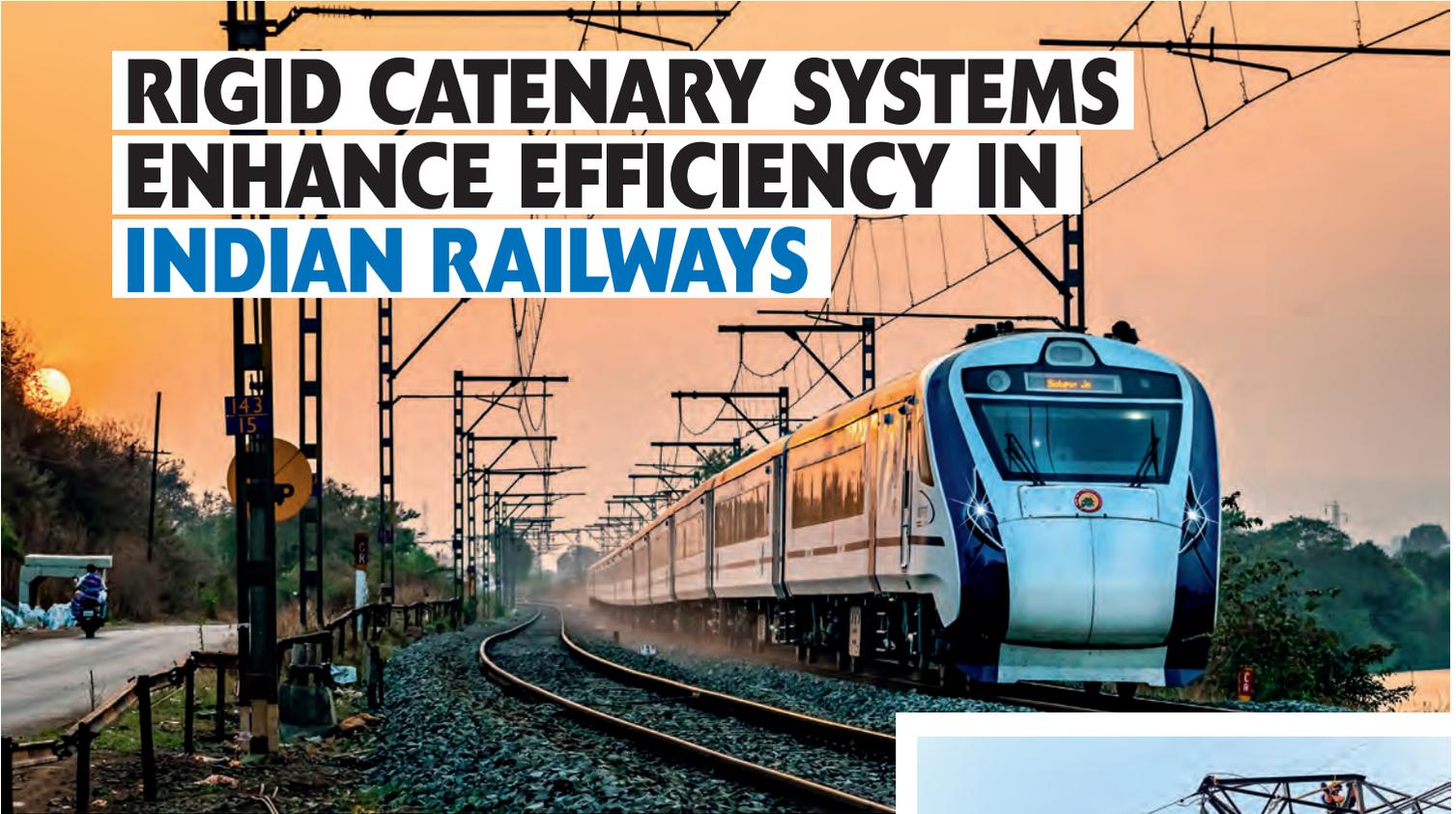
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RIGID CATENARY SYSTEMS ENHANCE EFFICIENCY IN INDIAN RAILWAYS



INDIA'S FIRST RIGID OVERHEAD CATENARY SYSTEM SETS A NEW BENCHMARK IN RAIL ELECTRIFICATION, OFFERING EFFICIENT POWER DISTRIBUTION, LOW MAINTENANCE, AND ECO-FRIENDLY TRANSIT FOR A BRIGHT FUTURE

GIRISH DUTT SHUKLA

With the installation of India's first Rigid Overhead Catenary System (ROCS) for the Delhi-Meerut RRTS corridor, Ircon International Limited (IRCON) has set a new benchmark. This innovative system, a first for India, also marks the country's progress in rail electrification. While ensuring fast, safe and smooth transit, these systems support environmental sustainability by reducing noise pollution and carbon emissions. This installation emphasises India's commitment to adopting advanced technologies and eco-friendly measures to reach net zero emissions, thus positioning the country at the forefront of modern transit systems.

On October 6, 2024, a social media

post from IRCON highlighted achieving "a remarkable milestone with the design, installation, and commissioning of the Rigid Overhead Catenary System (ROCS), designed for speeds up to 180 km/h and operational speed at 160 km/h. This state-of-the-art system has been successfully implemented in 6 kilometres of twin tunnels (a total of 12 track km) of 13 kilometres long Sahibabad to New Ashok Nagar segment of the Delhi-Meerut Regional Rapid Transit System (RRTS). Notably, this installation represents the first of its kind in India."

Unlike conventional overhead equipment that relies on tensioned wires, the catenary systems use two wires—catenary wire and contact wire. While catenary wires are hung between line

structures, the contact wire delivers power to the locomotive through a pantograph. These systems are best suited for underground transmitting such as subways. It has a rigid conductor in place of a flexible wire for the collection of electric power.

When used appropriately, rigid catenary systems have numerous benefits to offer. Unlike conventional overhead equipment, which requires a substantial amount of space above the train, the rigid overhead catenary systems have less space and the lack of a pushup facilitates improved electrical clearances. These systems do not require tensioning devices as there is no mechanical tension involved, and so it clears up the spaces above.

Since there is no mechanical tension in





the wires, the right catenary system eliminates the hazards caused by tensioned wires. These systems have a power distribution advantage as they provide a larger cross-sectional area for the electricity to pass through. The absence of mechanical tension on the contact wire reduces the chances of mechanical wear. These wires can be replaced as there are a few parts and pieces to be worked on, making maintenance easier. The maintenance work generally entails tightening jolt plate bolts and cleaning of insulators.

While fewer overall components ensure that maintenance work is smooth, the large cross-sectional area on rigid catenary systems helps make the power distribution more efficient. In case of a breakdown, the maintenance crews will have to bring in fewer materials to get it repaired. As the installation and replacement of these systems are easy, the maintenance cost is heavily reduced.

For instance, if a wire is too thin or snaps in traditional tensioned overhead equipment, it will require a larger repair job. But, when it comes to a rigid catenary system, a worn-out wire can be fixed by replacing that particular section of the wire that is impacted. This is because there is no mechanical tension involved here. The surrounding hangers, clamps and other supports will not be affected or need not be replaced.

Indian Railways can save money on maintenance work as rigid catenary systems allow higher wear of contact wire. As mentioned earlier, it is often not necessary to replace the entire section; only the affected area will be repaired. So, the time required to carry out this operation is comparatively less. In addition to lowering maintenance costs, this allows the train to return to service quickly.

In a conventional tensioned catenary system, the wire can creep as copper tends to elongate over time. This means that adjustments might have to be made in a few years to keep the system stable. On the other hand, since the rigid catenary system does not rely on applying mechanical tension to contact wire, no adjustments to the system will be required once it is

installed.

Another advantage of rigid catenary systems is that they can be used under different conditions. These systems are highly resistant to moisture, polluted air and temperature variations. Considering the pollution concerns in places like Delhi, where vehicular emissions have emerged as the primary source of CO, the use of catenary rigid systems will be ideal for improving air quality. As these systems are primarily used in tunnels, weather implications are not a concern.



RIGID CATENARY SYSTEMS HAVE NUMEROUS BENEFITS TO OFFER. UNLIKE CONVENTIONAL OVERHEAD EQUIPMENT, WHICH REQUIRES A SUBSTANTIAL AMOUNT OF SPACE ABOVE THE TRAIN, THE RIGID OVERHEAD CATENARY SYSTEMS HAVE LESS SPACE AND THE LACK OF A PUSHUP FACILITATES IMPROVED ELECTRICAL CLEARANCES



RETRACTABLE SYSTEMS ARE REDUCING ENERGY COSTS

TRANSFORM YOUR SPACES WITH SYSTEMS THAT ENHANCE ENERGY EFFICIENCY, REDUCE COSTS, AND ELEVATE AESTHETICS. PERFECT FOR ALL SEASONS, THEY ENSURE COMFORT AND STYLE EFFORTLESSLY

GIRISH DUTT SHUKLA

With a growing demand for sustainable living and environmental responsibility, people are looking for ways to be more energy-efficient and reduce their carbon footprint. One of the most effective ideas to reduce energy consumption is the installation of retractable systems.

Whether it is used in residential or commercial settings, these versatile systems not only add to the aesthetics of the place but also boost its overall efficiency, thus reducing energy costs significantly.

Retractable shading systems play a crucial role in temperature regulation, especially when it comes to outdoor spaces like patios, balconies, rooftop terraces, swimming areas, etc. By blocking the direct impact of the sun's rays in these areas, they help prevent excessive heat buildup. While making the outdoor areas more comfortable, retractable roofs or awnings have a positive effect on the indoor temperature as well. Suresh, a homeowner shared, "Installing a retractable awning has made my patio usable even during the hottest days while keeping my living room cooler naturally."

Here, choosing a light colour for the retractable screens is key to ensuring the blockage of as much sunlight as possible. While a lighter colour will reflect more of the sun's energy, a darker

colour will absorb them. With retractable awnings, people no longer need to close their windows tight during a sunny day. They will not allow the entry of warm breezes created by the harsh rays of the sun. While awnings enable individuals to keep their indoor spaces cooler, leaving windows open will enable the passage of fresh air.

As these screens help maintain a pleasant indoor temperature, people can rely less on air conditioning, thus significantly decreasing energy bills. By enhancing the natural cooling capabilities of the setting, individuals can save up to 30 per cent on their energy costs. "I've noticed a tangible difference in my electricity bills since I started relying on retractable screens for cooling my home," remarked Prashant, another user.

Since the dependency on air conditioning is decreased, it also means reduced chances of wear and tear on the equipment. Additionally, by blocking sunlight, these retractable screens protect



interiors and furnishings from damage like UV-induced fading. As the lifespan of these equipment and furnishings is potentially extended, it also helps save money that would otherwise be spent on maintenance and replacement.

One of the vital advantages of the retractable screens is their flexibility. These systems can be easily extended and retracted depending on the time of day. While retractable roofs or awnings work to create shade and keep the interiors cool during summer days, these screens can be retracted to let the light in during colder months of winter. This not only allows the entry of more natural light inside but also helps in keeping spaces warm. These energy-saving systems minimise the need to frequently start heating systems. Moreover, people can leave lights off as the

natural light will brighten up the indoor areas. This again contributes to the reduction in cooling costs. "It's amazing how retractable screens adapt to different weather conditions, keeping my home energy-efficient year-round," said Riya, a professional.

Beyond the functional benefits, retractable systems also enhance the aesthetic appeal of properties. Today, they are available in a variety of styles, designs and colours, allowing people to choose protective screens that complement the architecture of their property. Apart from enhancing the curb appeal, investing in energy-saving home improvements such as retractable systems further improves the value of property. As present-day buyers are increasingly becoming environmentally conscious, the charm of an aesthetically pleasing,

energy-efficient home or building attracts their attention.

Many governments are recognising the pivotal role of eco-friendly solutions in mitigating environmental damage. They are encouraging people to invest in energy-efficient upgrades by providing incentives. By taking advantage of these rebates, people are actively participating in energy-saving initiatives, amplifying the efforts to promote sustainable living.

Retractable screens are designed to achieve durability and low maintenance. The materials used for their creation are generally resistant to weathering, enabling them to withstand any kind of climatic conditions without the need for frequent repair. As opposed to the constant manufacturing and discarding of short-lived alternatives, the construction of retractable systems



WHILE MAKING THE OUTDOOR AREAS MORE COMFORTABLE, RETRACTABLE ROOFS OR AWNINGS HAVE A POSITIVE EFFECT ON THE INDOOR TEMPERATURE AS WELL



WHETHER IT IS USED IN RESIDENTIAL OR COMMERCIAL SETTINGS, THESE VERSATILE SYSTEMS NOT ONLY ADD TO THE AESTHETICS OF THE PLACE BUT ALSO BOOST ITS OVERALL EFFICIENCY, THUS REDUCING ENERGY COSTS SIGNIFICANTLY

is in alignment with the principles of sustainability. Since these screens do not have to be replaced for a long time, they have proven cost-effective.

Research and development of energy-saving solutions, including retractable systems, are continuously advancing. The ongoing studies are exploring different designs, materials and technologies to

improve their energy-efficient features.

In conclusion, retractable systems, which are stylish additions to a building or property used for temperature regulation, help cut down maintenance and cooling/heating costs significantly. They are flexible enough to adapt to seasonal changes, providing shade to keep indoor spaces cool during summer.



CREATING INNOVATIVE AND IMPACTFUL TECHNOLOGIES FOR RAILWAY OPERATIONS

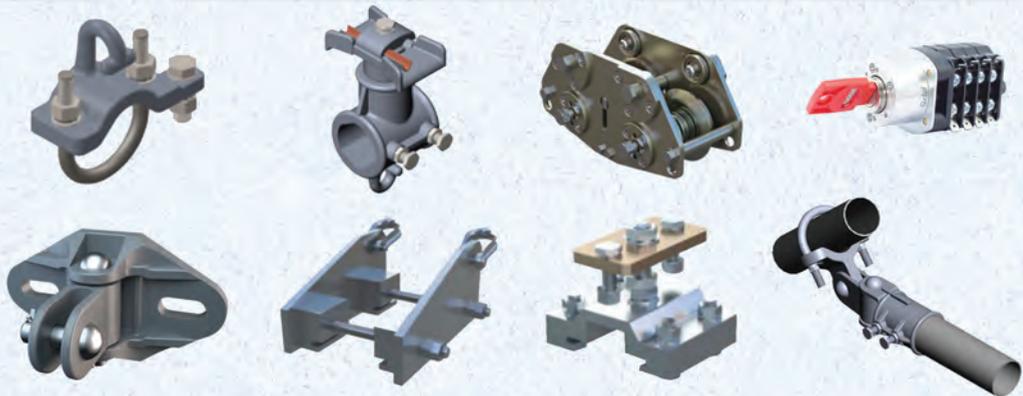
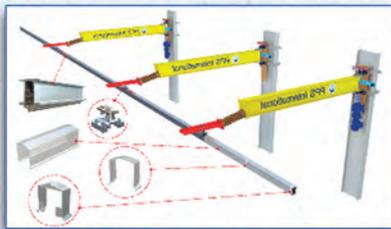


Mr. PK Agarwal
Founder & CEO

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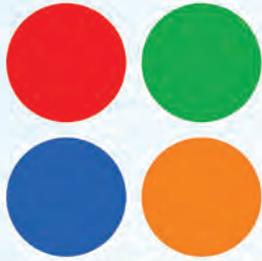
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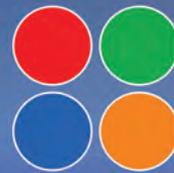
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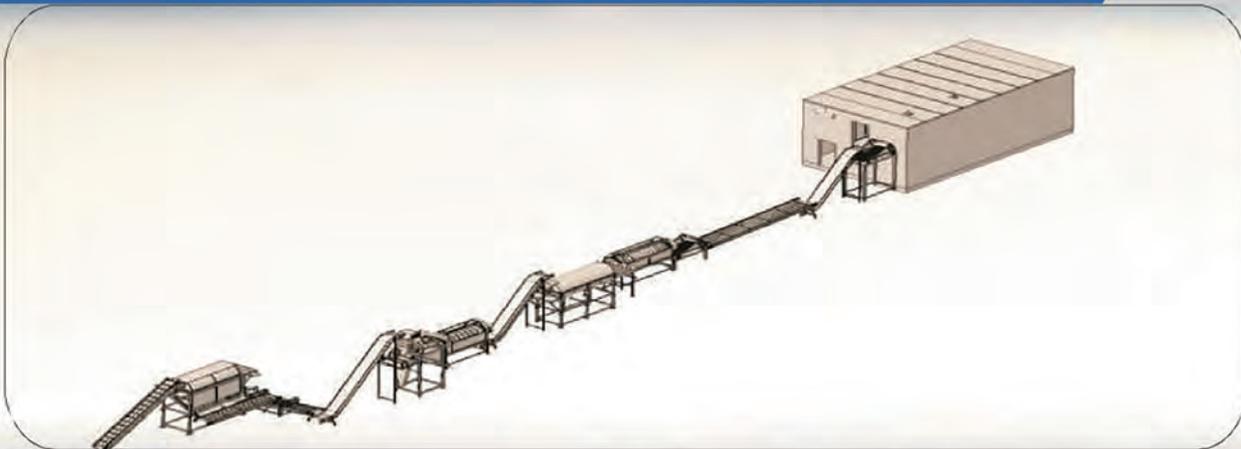
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Our Specialities



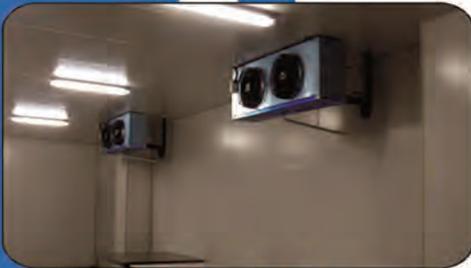
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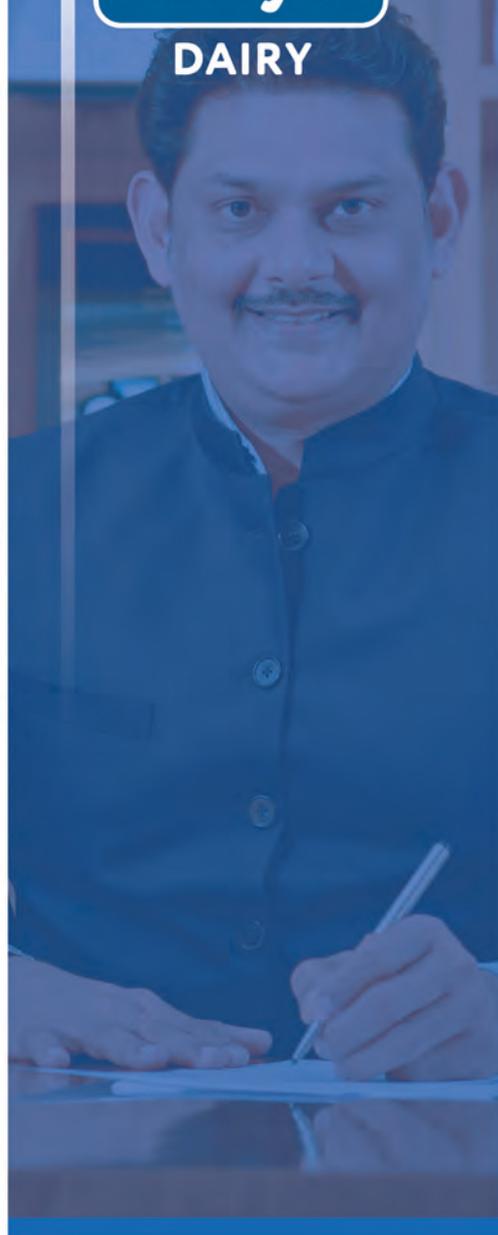
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Healthways Milk & Food Products Pvt. Ltd. celebrates its fifth anniversary, the company proudly enters its sixth year with remarkable achievements and an ever-growing market presence. Since its inception in 2018, Healthways has committed to delivering the highest quality dairy products across Delhi/NCR, Uttarakhand, and Uttar Pradesh, with an expansion strategy aimed at scaling operations nationwide.

What sets Healthways apart is its unwavering dedication to quality, innovation, and community. By sourcing premium milk directly from over 50,000 farmers spread across 3,500 villages, Healthways ensures fair compensation for farmers while maintaining strict quality controls from procurement to packaging. Each product, from milk to paneer and ghee, is processed in state-of-the-art facilities that meet international standards like FSSC 22000 and HACCP certification.

Over the past five years, Healthways has become a household name, serving more than 450,000 families across the country. The company's focus on consumer satisfaction, combined with cutting-edge technology and rigorous quality testing, allows it to deliver fresh, nutritious dairy products daily.

Healthways commitment to innovation continues with its expanded product range, which includes high-quality milk, probiotic curd, masala buttermilk, A2 cow milk, Paneer, frozen paneer and frozen green peas etc; and a variety of traditional Indian sweets like peda and kaju katli. By staying aligned with the "Make in India" initiative, the company continues to bring new, innovative dairy products to meet diverse consumer needs.

At its core, Healthways believes in a sustainable business model that benefits both consumers and farmers. Through its strategic investments in chilling centers and world-class processing plants, including the recently launched facility in Gorakhpur, the company has reduced the farm-to-table time, ensuring that only the freshest dairy products reach consumers.

Supported by a highly experienced team, Healthways remains dedicated to reshaping the Indian dairy sector. With a relentless focus on quality, ethical practices, and consumer-centric innovation, Healthways is well on its way to becoming a leader in India's fast-evolving dairy landscape.



Dr. Mahesh C. Tiwari
(CEO) Healthways Dairy

EASE OF TRADING WITH DIGITAL PLATFORMS

ONLINE PLATFORMS ARE TRANSFORMING THE MARKETS WITH REAL-TIME DATA, AI-DRIVEN INSIGHTS, AND TRANSPARENT SYSTEMS, ENABLING EFFICIENT, AND INCLUSIVE TRADING FOR ALL STAKEHOLDERS

GIRISH DUTT SHUKLA

Commodity trading, which involves the buying and selling of raw materials and goods, has been influencing India's economy for centuries. Yet navigating the ever-evolving landscape of commodity trading can appear challenging without the integration of a holistic digital platform. Today, by embracing digital transformation, traditional commodity markets are boosting their trading capabilities, enhancing supply chain management, and achieving efficiency.

Earlier, before online trading platforms came into the picture, trading was possible only through brokers, who often demanded huge commissions from traders. Trading with the help of these intermediaries proved to be complex and non-profitable, especially for small traders. However, the introduction of online trading platforms eliminated these middlemen from the commodity trading equation. With the help of these platforms, companies, big or small, can access the trading market in real-time using an internet connection. Buyers can place and track their orders without having to rely on the brokers. These days, there are Decentralized Finance (DeFi) platforms that facilitate peer-to-peer trading, thus allowing direct transactions between traders without intermediaries such as banks.





"Earlier, navigating through brokers was expensive and tedious. Digital platforms now let me trade from anywhere, saving time and money," said a small-scale trader.

Having real-time access to data that gives people insights into what is happening across the market and with individual trades is critical for commodity traders to have a competitive advantage. Technology in commodity trading allows the integration of all front and back-office systems to a Single Source of Truth (SSOT), and streamlines operations using intelligent workflows. All the stakeholders across the value chain are enabled to benefit from the self-service portals which provide the same information to everyone involved, thus promoting a customer-centric experience.

Information has always played a crucial role in determining who has an edge in the trading market. Today, technology has made access to that information possible from multiple sources simultaneously. This ensures that with accurate data in hand, traders can get better at decision-making. For instance, tracking the movement of cargo ships is now possible with great accuracy because of satellite imagery. GPS tracking is used on trucks carrying commodities to avail information about the status of goods at any given time. Similarly, technology can help in knowing the prices of goods on the market by analysing large amounts of data, quickly. This has made it



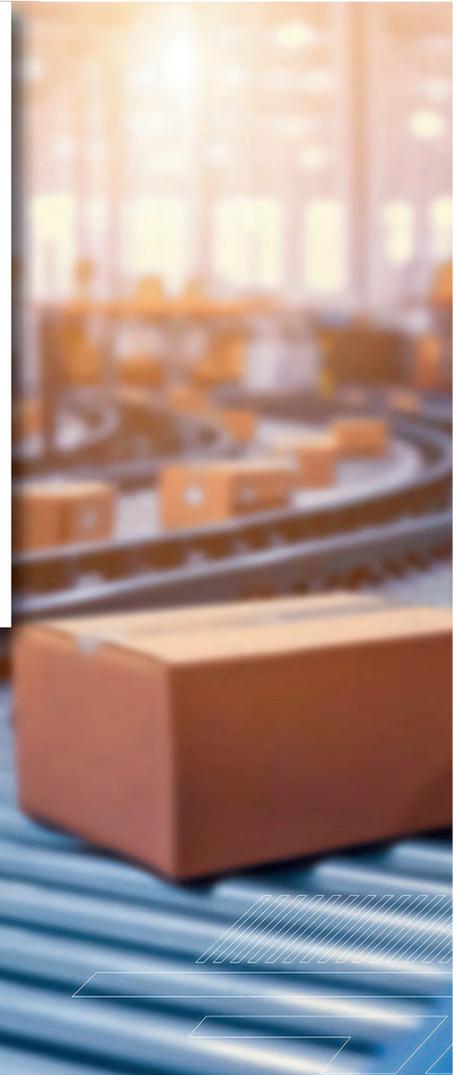
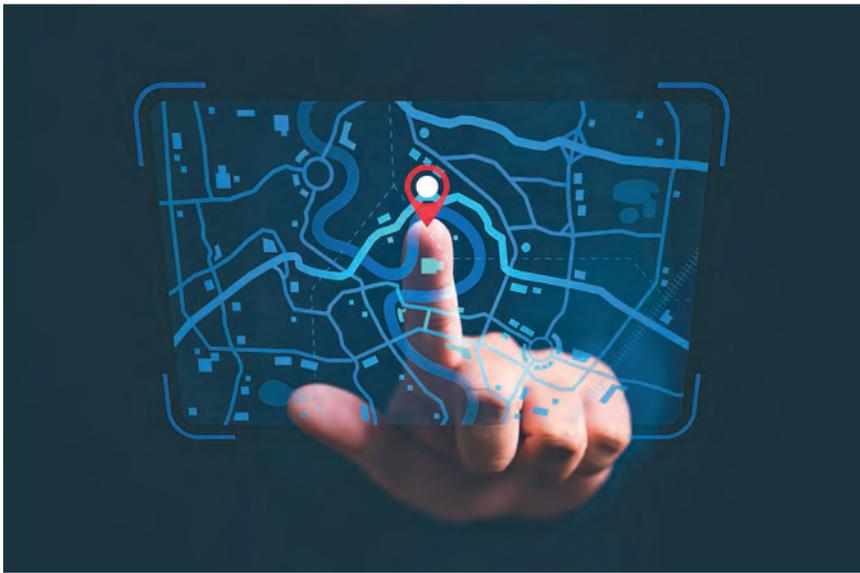
possible for traders to analyse the position of the commodity in the market and decide wisely before investing in them.

Big players in the commodity trading market are generally equipped with a team of data analysts who work around the clock to turn mounds of data into meaningful, usable insights. This used to give an unfair advantage to big traders. However, digital transformation has helped in bridging this gap between big and small traders. These days, small traders have access to digital trading platforms which enable them to draw crucial insights using market analytics tools. Thus, these digital platforms create a level playing field for every player involved in the trading game.

"Access to market insights is no longer a



INVESTORS CAN BUILD DIVERSIFIED PORTFOLIOS THESE DAYS AND TAP INTO THE EMERGING MARKETS FOR ENVIRONMENTALLY SOUND COMMODITIES USING ONLINE DIGITAL PLATFORMS



THE INTRODUCTION OF ONLINE TRADING PLATFORMS HAS ELIMINATED MIDDLEMEN FROM THE COMMODITY TRADING EQUATION. WITH THE HELP OF THESE PLATFORMS, COMPANIES, BIG OR SMALL, CAN ACCESS THE TRADING MARKET IN REAL-TIME USING AN INTERNET CONNECTION

privilege for the big players. With these tools, even small traders like me can compete effectively," shared an independent trader.

AI and machine learning algorithms can analyse big data to identify patterns and predict market movements, thus enabling traders to optimise risk management and capitalise on emerging trends or new market opportunities with greater speed and precision. Online trading systems can quickly adapt to evolving market conditions in real-time, providing an upper hand in the current fast-paced commodity markets.

The rise in environmental sensitivity and regulatory initiatives has resulted in sustainable and eco-responsible raw materials and commodities gaining more traction in the market. Individuals

are increasingly prioritising investing in ethical and eco-friendly practices and initiatives, thus increasing the demand for sustainable commodities. Investors can build diversified portfolios and tap into emerging markets for environmentally sound commodities using online digital platforms.

"Investing in sustainable commodities has never been easier. Digital platforms make it seamless to choose products aligned with my values," said an investor focussed on eco-friendly practices.

The chances of survival for a company in the commodity trading market while understanding the intricacies of geopolitics, keeping up with the unpredictability of the global market, and meeting Environmental, Social, and Governance (ESG)



compliance will depend on its agility, efficiency, and transparency. But, legacy technology, which deprives businesses of access to modern tools and services, can lock them in a rut. However, advancements in technology are revolutionising the commodity trading sector by offering solutions to boost trading capabilities and overcome complexities.

Digitisation has led to many positive changes across the commodity landscape, making trading more transparent, efficient, and accessible. These solutions centralise data securely, automate time-consuming tasks, and identify the areas that need to be focussed on to improve profit margins. Whether it's the buyer, seller, or any other counterparty, the advent of digital platforms has made life easier for everyone involved in the trading transaction.



KEY TRENDS SHAPING THE INDIAN COMMODITIES INDUSTRY

FROM AGRICULTURE TO METAL, TECHNOLOGY AND GLOBAL TRADE ARE RESHAPING THE INDUSTRY'S FUTURE

GIRISH DUTT SHUKLA

The commodity industry holds a significant place in the grand tapestry of the Indian economy, playing a crucial role in the country's growth and development plans. Influenced by a mix of domestic and global economic conditions, the commodity sector has witnessed significant fluctuations in recent years. Today, the Indian commodity market reflects the nation's rich agricultural heritage, the growing energy needs and the booming industrial base.

Until the establishment of the Multi Commodity Exchange of India (MCX) in 2003, the Indian commodity market suffered a



DESPITE THE CHALLENGES OF GEOPOLITICAL TENSIONS, FLUCTUATING OIL PRICES, AND THE IMPACT OF THE PANDEMIC, THE INDIAN COMMODITY MARKET HAS MANAGED TO THRIVE WHILE SHOWCASING INNOVATION AND RESILIENCE

great deal of inefficiencies and pricing disparities due to the lack of standardisation and transparency. Thanks to the technological advancements and regulatory reforms that followed since the introduction of electronic trading, the commodity market in India has transformed to accommodate greater efficiency, transparency, and accessibility. The amendment of the Forward Contracts (Regulation) Act of 1952 and the merger of the Forward Markets Commission (FMC) with the Securities and Exchange Board of India (SEBI) in 2015 has significantly impacted the commodity market, enabling market participation to increase manifold, with a wide range of commodities being traded. The integration of technology has resulted in enhanced risk management practices, making the commodity market resilient to external shocks.

Trading volumes across key commodity exchanges in India, including the Multi Commodity Exchange (MCX) and the National Commodity and Derivatives Exchange (NCDEX) have demonstrated resilience for the most part, with notable upticks in areas such as energy, agricultural products, and precious metals. The country's diverse geography and vast

resources have contributed to the production of a wide variety of commodities, thus positioning India as a crucial player in the global commodity market.

Despite the challenges of geopolitical tensions, fluctuating oil prices, and the impact of the pandemic, the Indian commodity market has managed to thrive while showcasing innovation and resilience. One of the standout success stories has emerged from the agricultural sector, which, with the integration of technology, has transformed its traditional trading practices. Platforms that enable direct farmer-to-market access have helped significantly in improving price discovery, minimising losses, and increasing profitability for small-scale farmers.

Lal Devi, chairperson of Aaranayak Jeevika FPC, says, "The 1,000 tonnes of maize that we sold in aggregation in the futures market have safeguarded us from the perils of price fluctuation. Now, the unpredictable highs and lows in prices don't affect us as we have protected our earnings by opting to trade on the futures platform."

While the world is turning towards sustainable energy, India's renewable energy sector presents new opportunities



in commodity trading, especially in solar and wind energy credits. The Indian government's push towards sustainable energy through numerous policies and incentives has opened up several investment avenues. Rather than a mere spectator, India is now placed as a key player in the global green energy market.

With the adoption of blockchain and artificial intelligence (AI), the Indian commodity industry has been able to address different challenges related to fraud prevention, settlement times, and transparency. The advent of technological solutions has not only enabled secure and efficient transactions but also managed to attract a new generation of tech-savvy investors into the market.

Highlighting how digital platforms have helped farmers, Savitri Devi of Samriddhi Mahila FPC says, "Women like me now are self-sufficient and feel empowered. We now know exactly what to do with our post-harvest crops to earn a better price and thus, a better livelihood and most importantly, respect from all. We started with 10 MT of soyabean that we traded on the exchange platform and that has fetched us good profits, thanks to futures prices."

"With NCDEX, our biggest advantage is its easy delivery and settlement

mechanism. If we were to sell in the open market, we would have waited for payments for almost a month and a half. But with NCDEX, as per their norms, once the delivery settlement is done, we get the payment within two-three days. Our farmers are better informed and follow NCDEX prices regularly. This has raised their bargaining power in the open market," says Ravinder Gaur, director at Shubhlaxmi FPC.

India's current position in the global commodity market is strengthened by the imports and exports of various commodity products. Being one of the largest producers of agricultural goods, the country's exports of rice, spices, tea, cotton, etc., are critical in meeting global demands. India also has a competitive advantage over others in the production of key metals like steel, aluminium, and zinc, thanks to the domestic availability of high-grade iron ore, bauxite, and zinc ore. The abundance of natural reserves and the availability of a young workforce have contributed to the steady growth of the export value of these metals. Along with earning valuable foreign exchanges, these exports position India as a key supplier in the global market.

India's attempt to become self-reliant in strategic commodities like rare earth elements underscores the nation's ambitions to enhance its economic sovereignty and solidify its position in global supply chains. By reducing the dependency on imports, especially for these key materials, the country aims to achieve two goals—to fortify its domestic industries and, to become an important supply chain player to influence global commodity flows.



WITH THE ADOPTION OF BLOCKCHAIN AND AI, THE INDIAN COMMODITY INDUSTRY HAS BEEN ABLE TO ADDRESS CHALLENGES RELATED TO FRAUD PREVENTION, SETTLEMENT TIMES, AND TRANSPARENCY. THE ADVENT OF TECHNOLOGICAL SOLUTIONS HAS ENABLED SECURE TRANSACTIONS AND ATTRACTED TECH-SAVVY INVESTORS INTO THE MARKET

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About us

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As India's first food grade stainless steel utensil brand, **PNB Kitchenmate** offers premium-quality products that cater to diverse needs of institutional and domestic kitchens in the country. It originated in 1997 and is owned by Shree Shakti Enterprises Private Limited (SSEPL), known for its beautifully crafted, high-quality products.

The Bajaj family, with over 70 years of experience spanning three generations, backs the brand. The company began with Late Shri P.N. Bajaj, who started the utensil business in Delhi based on values of customer satisfaction and integrity, which made him a known name in the trade of metal utensils. His eldest son, Shri Rakesh Bajaj, took over the business and was later joined by his brothers, Shri Rajesh Bajaj and Shri Rajiv Bajaj. Together, they established state-of-the-art manufacturing facilities while increasing the distribution of the PNB brand throughout India. The third generation of the Bajaj family, Mr. Rahul Bajaj, Mr. Aakash Bajaj and Mr. Atul Bajaj, are equally dedicated to the brand and constantly take it to new heights.

SSEPL's mission is to provide Indian consumers with traditional and pioneering kitchen solutions by producing the world's best quality products in its category, made with food-grade material. The company has state-of-the-art manufacturing and R&D facilities and follows the same principles of customer satisfaction and professional integrity. The company, Shree Shakti Enterprises Limited have big plans for their brand PNB Kitchenmate in the near future. The brand has roped in hugely popular Ms. Madhuri Dixit Nene and launched aggressive media campaign with new commercial.

The Brand positioning is Health as almost range of Products are made with high quality steel and Aluminum. The brand's tagline, "**PNB Ki Suno, Hamesha Healthy Chuno,**" reflects its commitment to promoting healthy lifestyles. PNB Kitchenmate products are available in almost every part of India and in 72 international markets.



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At present Vansh group has 5 Manufacturing plant spread over different parts of northern India and having 2.00 lac Sq. ft. total built up area. We have major share of 40% for SURAKSHA LPG Hose. We are also leading Manufacturer of Low- and High -Pressure Rubber hoses, Rubber moulding Products, LPG/PNG stoves and many more Kitchen accessories.



"Mr. Vikas Rungta, Managing Director"

VANSH GROUP Excellence Awards

- TOP DOMESTIC SALES AWARD by **AIRIA**,
- INDIA 5000 BEST **MSME** AWARDS 2022 WINNER,
- Vansh Industries was also felicitated by **BIS** as **INDIA's first BIS Licence** Holder for LPG Rubber Hose as per "IS 9573:PART 1:2017 for COMMERCIAL & INDUSTRIAL APPLICATIONS".
- PLATINUM BUSINESS AWARD by **DAINIK JAGRAN**,
- BEST HOME APPLIANCES MFG. BY VIBRANT INDIA,

Vansh Industries incorporated in 1996, A leading & trusted manufacturer of following Products. *Suraksha LPG Hoses, Multipurpose Trolley, Commercial LPG Hoses, Suraksha Flame-Retardant Kitchen Apron, Oxygen & Acetylene Welding Hose, Green Tube, Rubber Moulded Products, Pressure Cooker Gaskets, PNG Hoses, Hose Clamps, High Pressure Adaptors, Kitchen safety kits etc.*

Dynamic Industries also incorporated in 1996, A leading & trusted manufacturer of high-quality Products with certifications for the following, *Domestic LPG Stoves, Domestic PNG Stoves, 74% High Thermal Efficiency LPG Stoves, Toughened Glass Stoves, Latest Design Hob Model Stoves, also we are customizing the Stoves as per OEM designs and requirements.*

Suraksha Rubber Products Private Ltd., started manufacturing of LPG hose at Sonipat, Haryana after relocating machinery from Suraksha Products Private Limited, Hyderabad, which originally started LPG hose manufacturing in 2005. The name Suraksha becomes a trusted brand for superior quality Products in domestic as well as international market. We produce *Suraksha LPG Hoses, Flame Lighters, Hydraulic Hoses, Industrial Hoses Automotive Hoses, Hose Assemblies etc*

Vansh Homes Appliances Private Ltd., was incorporated in 2019, was established to provide a wide range of kitchen appliances through channel sales and e-commerce platforms. Currently, we offer the following products: *LPG/PNG Hose, LPG/PNG Stoves, Inner/Outer Lid Pressure Cookers (SS, HA & Aluminium), Spark/Gas Lighters, Tri-Ply Kitchen Utensils, Non-Stick Kitchen Utensils, Hard-Anodized Kitchen Utensils, Hi speed Mixer Grinder, All accessories of above items.*

MS Enterprises was incorporated in the year 2012, it becomes part of Vansh group in the year 2021 and thereafter grown at manifold. Now MS enterprises got many tenders and own many brands and becomes a trusted manufacturer of High quality Products with below certifications, *Suraksha LPG Hoses, Green Tube, Oxygen & Acetylene Welding Hose, PNG Hoses and Multi-purpose hoses.*

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Our mission is to produce and continually develop quality products at a competitive price while fostering a climate where environmental technologies can thrive . We will always strive to service our customer with the utmost integrity, and to their complete satisfaction. It is our goal to ensure our mission by continuous self improvement, growth in our operations and employees; while maintaining profitability to the benefit of our customers, employees and community

Our Vision

Our Vision is to strive for synergy between technology, quality, systems and our people, so as to deliver products and services that meet the quality, performance and price aspirations of our customers. At the same time. Maintaining the highest standards of ethical practices and social responsibility.

Management Pen

"Progress for me has never been a dream. It has always been a distant reality and once one milestone is achieved, there is always another one waiting to be crossed. The journey of Vansh is never ending. But with the support of my team and clients, I am confident that the company will continue to scale milestones of excellence for years to come."

-Mr. Vikas Rungta, Managing Director





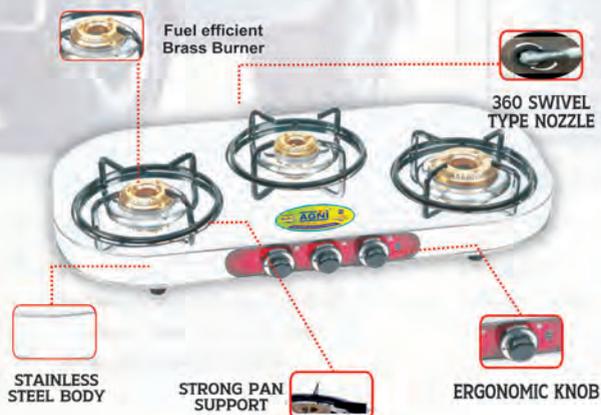
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PNG GAS STOVE

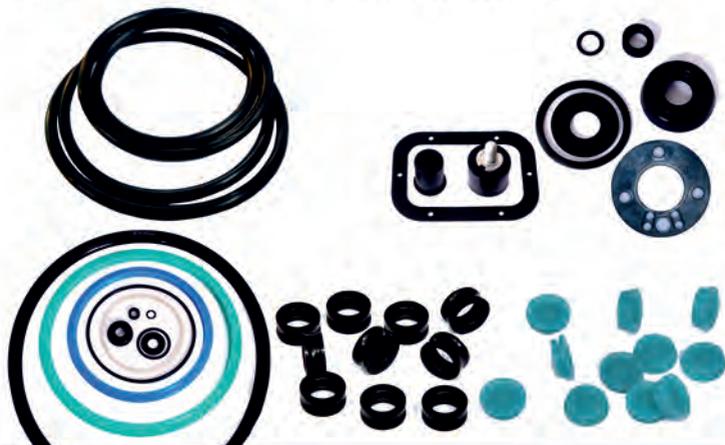
OUR RANGE OF PNG STOVES OFFERS A CLEANER, GREENER ALTERNATIVE TO TRADITIONAL COOKING METHODS, DELIVERING A CONTINUOUS SUPPLY OF NATURAL GAS FOR EFFORTLESS COOKING.





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Our automotive hoses, including radiator, fuel, and brake hoses, are engineered to meet the rigorous demands of modern vehicles. With superior resistance to heat, pressure, and chemicals, they ensure your vehicle runs smoothly and efficiently, providing you with the confidence you need on the road.

Our Product Range



OUR PRODUCT GLIMPSES



Suraksha LPG Hose



Welding Hose



Agni Green Tube



Commercial Hose With Assembly



Commercial LPG Hose



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Agni Pressure Cooker Gasket



LPG / PNG Stove



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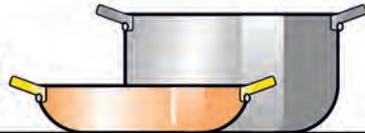
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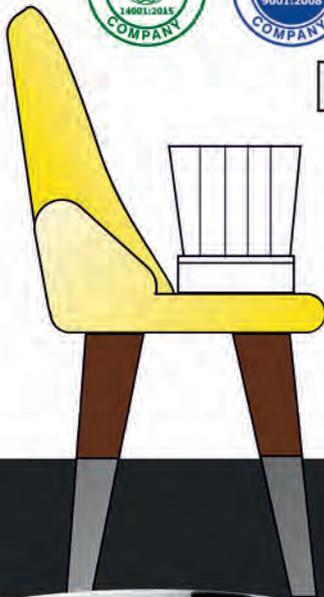


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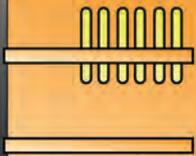
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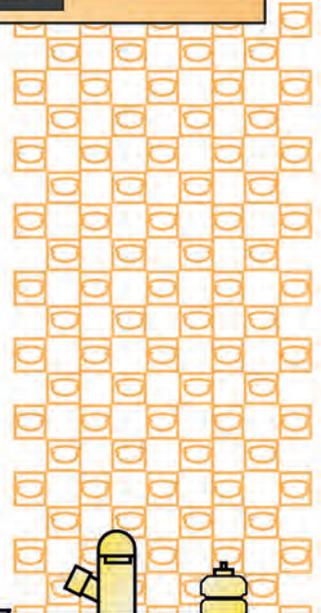
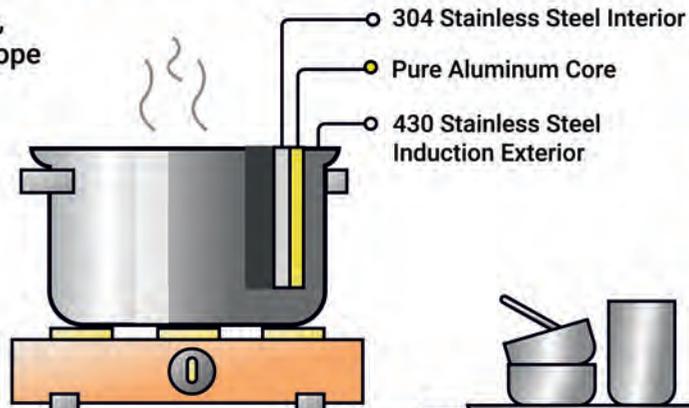
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Mr. Samar Singh

SHIKHA INDUSTRIES established in 2002, its genesis at a time when Shikha was developing its industrial strength. At that time Shikha Industries was one of the company that took manufacturing as their core strength and brought pressure cooker easily affordable to indian household with better sources and technology with all safety measures.



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Founder & Chairman of Pind Balluchi

S. JASPAL SINGH CHADHA

FOUNDER & CHAIRMAN OF PIND BALLUCHI

Since its launch, in 1992 the company has rapidly grown to become a dynamic force in the hospitality industry in Delhi NCR and has recently started spreading its wings across the country through franchise routes. Shri JS Chadha has been in the industry for the last 30 years.

He has also been the winner of National Tourism Award for the Best Restaurant of India for 5 consecutive years and has received Awards from the Prime Minister of India and the Vice President of India.

It is one of Delhi NCR's leading restaurant chains since 2004 and has built a successful portfolio of concept to provide village themed restaurants to the urban young people and children, who have hardly visited the villages of the Punjab. The founder of Pind Balluchi, Mr. Jaspal Singh Chadha, comes from the Food & Beverage background and has applied modern management techniques to his chain of restaurants to create an aesthetically commendable blend of traditional and modern ambience.

His ability to implement strong controls, systems and processes has attracted clients of major Corporate Houses and MNCs besides the regular diners.



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Artificial intelligence (AI) and Internet of Things (IoT) have reshaped most industries in the last two years. Among all applications, AI's contribution to modern safety equipment design is incredible because it changes the mindset toward protecting people in risky places. Such technologies are changing the norms of safety practice across India by creating real-time monitoring, predictive analytics, and ease of use.

THE POWER OF TECHNOLOGY

AI is the ability of a machine to imitate intelligent human behaviour. It is closely aligned with IoT where several interconnected devices share real-time data. IoT devices collect massive amounts of data, which AI analyses to give actionable insights. This is an important safety equipment, where timely decisions may make the difference between life and death.

"AI and IoT together make everything proactive; instead of being a reaction, accident prevention will arrive and become anticipated. That changes the game in construction, manufacturing or health-related areas," says Dr

AI AND IOT-DRIVEN INDIA

MODERN TECHNOLOGY IS TRANSFORMING EQUIPMENT DESIGN BY CREATING SMARTER, CONNECTED, AND HIGHLY EFFICIENT SYSTEMS



Anurag Gupta, a research scholar in AI.

every employee.

DEVELOPMENT OF PERSONAL PROTECTION DEVICES

These devices can be seen as a fundamental component of the hazardous working environment. However, traditional PPE does not provide real-time information about the dangers or physical condition of the person. AI and IoT can fill this gap by incorporating sensors and intelligent systems into the PPE.

For example, intelligent helmets could contain IoT sensors that capture all the conditions of the environment: weather or temperature, air, noise levels, etc., warning and alerting about what each carries within. Also, sensors embedded in the vest could record a symptom of great significance without exhausting the body system much. Aggregated and then analysed, AI could evolve highly customised safety guidance tailored to

REAL-TIME HAZARD DETECTION

This is a serious situation that calls for detecting hazards with AI and IoT. Within the process, sensors are placed anywhere in the workplace to detect gas leaks, equipment faults, or structural instability. They send their information to AI, which begin processing them to decipher patterns and dangers early enough before they transform into gigantic ones.

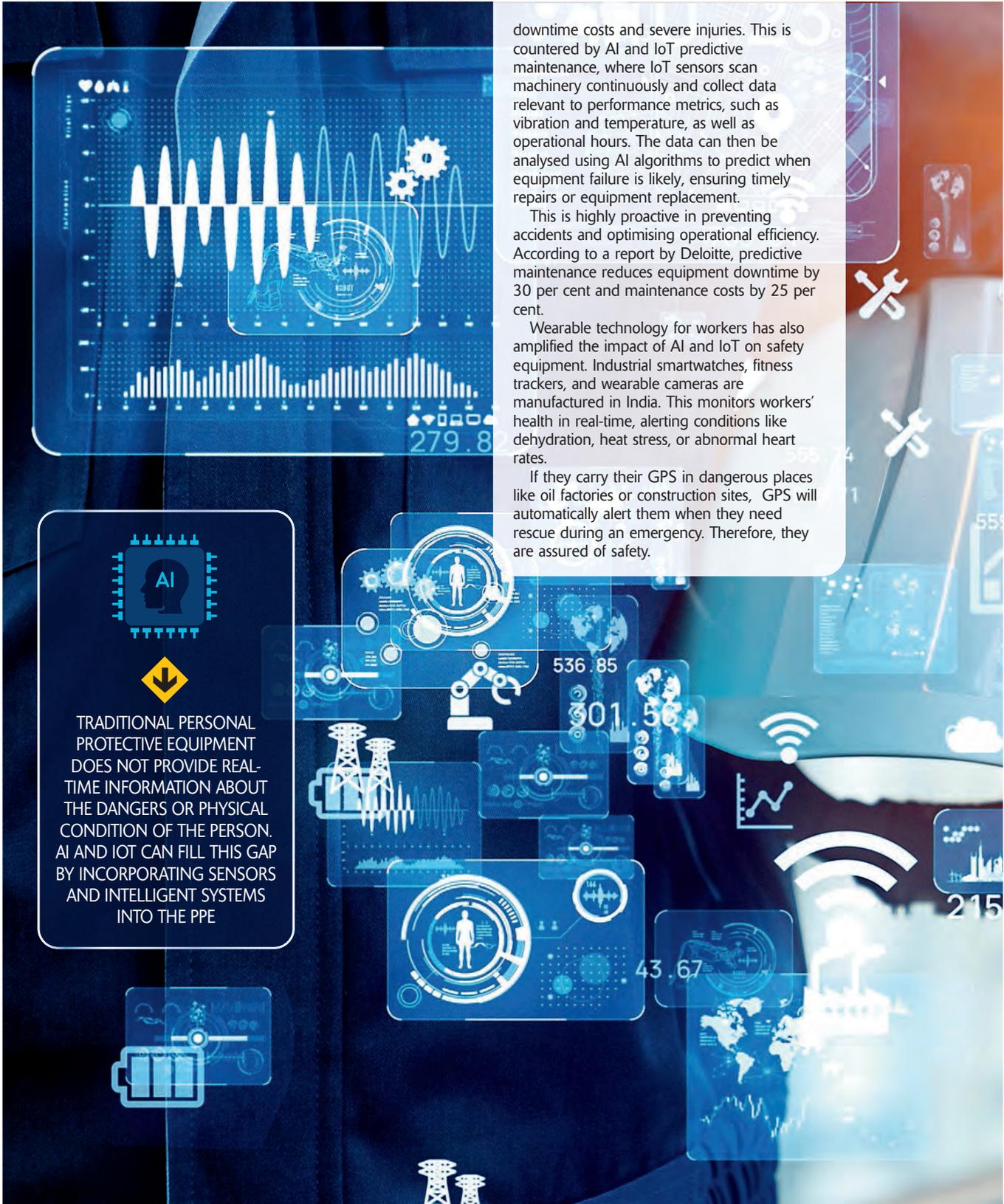
"The ability to predict and prevent hazards in real-time is revolutionary," says safety consultant Arvind Kapoor. "It's no longer just about responding to incidents; it's more about eliminating risks before they ever happen."

PREDICTIVE MAINTENANCE

Equipment failure is another major cause of workplace accidents, which incur



THERE IS A GREAT INTEREST IN STANDARDISING THE USAGE OF AI AND IOT-BASED SAFETY EQUIPMENT TO SPREAD THIS BENEFIT TO ALL INDUSTRIES

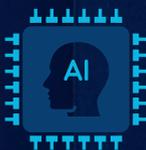


downtime costs and severe injuries. This is countered by AI and IoT predictive maintenance, where IoT sensors scan machinery continuously and collect data relevant to performance metrics, such as vibration and temperature, as well as operational hours. The data can then be analysed using AI algorithms to predict when equipment failure is likely, ensuring timely repairs or equipment replacement.

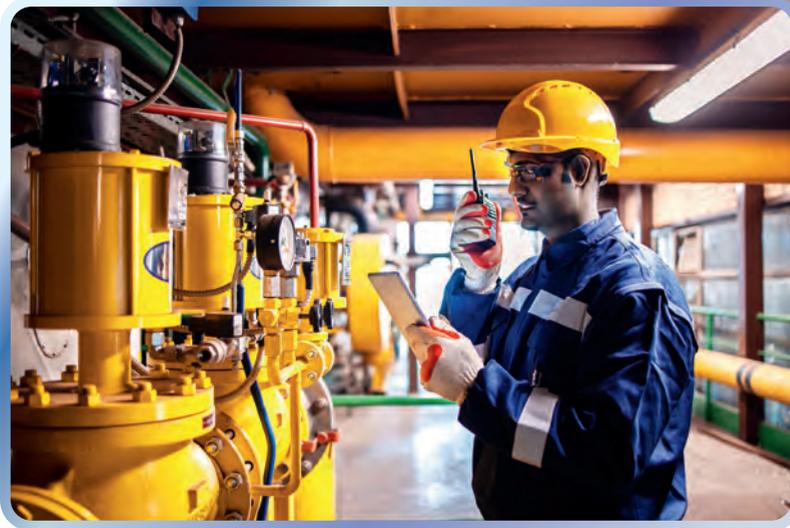
This is highly proactive in preventing accidents and optimising operational efficiency. According to a report by Deloitte, predictive maintenance reduces equipment downtime by 30 per cent and maintenance costs by 25 per cent.

Wearable technology for workers has also amplified the impact of AI and IoT on safety equipment. Industrial smartwatches, fitness trackers, and wearable cameras are manufactured in India. This monitors workers' health in real-time, alerting conditions like dehydration, heat stress, or abnormal heart rates.

If they carry their GPS in dangerous places like oil factories or construction sites, GPS will automatically alert them when they need rescue during an emergency. Therefore, they are assured of safety.



TRADITIONAL PERSONAL PROTECTIVE EQUIPMENT DOES NOT PROVIDE REAL-TIME INFORMATION ABOUT THE DANGERS OR PHYSICAL CONDITION OF THE PERSON. AI AND IOT CAN FILL THIS GAP BY INCORPORATING SENSORS AND INTELLIGENT SYSTEMS INTO THE PPE



CHALLENGES AND CONSIDERATIONS

While the infusion of AI and IoT with safety equipment holds many merits, it also poses risks. Security is one major concern as devices' interlinking leaves the system vulnerable to cyberattacks. A break-in would mean the exposure of the core safety system, and that would undermine the safety of workers. These are also very expensive for small organisations. Moreover, workers with high technological safety devices require resources and time-consuming training.

Ashna Verma, an industrial IoT cybersecurity expert, says, "Even though such technologies promise safer working conditions, it is important to implement some serious cybersecurity measures and training."

Despite this, the future of AI and IoT in safety equipment design looks very promising. Along with these advanced technological improvements, we also anticipate more complex systems that address issues related to safety. For instance, integrating AR with AI and IoT means that workers will have visual overlays of hazards in real time with suggestions for appropriate action. The Indian government and regulatory bodies are aware of such technologies. There is great interest in standardising the usage of AI and IoT-based safety equipment to spread this benefit to all industries.

This leads to the development of personal protective gear that integrates AI and IoT. This technology can predict future threats and avoid accidents; it improves response time and further increases features in the workplace to enhance safety. Companies can use real-time information and smart analytics to gain a safer working space.

"The strength of AI and IoT lies in the fact that they can make safety not just a reactive measure but an intrinsic part of every work process. Thorough innovation and cooperation will make the scope of a safe workplace limitless," says Dr Gupta.



SAFETY COMES FIRST

THE COUNTRY'S SAFETY EQUIPMENT MARKET IS GROWING, DRIVEN BY RISING AWARENESS, STRINGENT REGULATIONS, AND EXPANDING INDUSTRIAL SECTORS

HIMANSHI.DUSEJA@TIMESOFINDIA.COM

The safety equipment market in India is thriving with rising awareness of workplace safety, firm government regulations and an expanding industrial base. Reports reveal the market was valued at USD 1.5 billion in 2023, with projected growth at a CAGR of over eight per cent in future.

"The industry is experiencing demand across various sectors such as

manufacturing, construction, healthcare, and mining," reveals Prakash Makhija, an industry expert. Increased emphasis on occupational safety and health (OSH) is the primary driver of the growth of this industry in India. Moreover, the country's expanding infrastructural and industrial development have paved the way for a prospering safety equipment sector.

Personal protective equipment (PPE), fire safety equipment, and workplace safety systems are the main divisions of the safety equipment market in India. Among these, the PPE segment accounts for the largest share, encompassing products such as safety helmets, gloves, eye protection, and respiratory devices. Fire safety equipment, including fire extinguishers, alarms, and sprinklers, is gaining traction due to increasing awareness and mandatory compliance with fire safety norms in residential and commercial buildings.

One of the primary catalysts for growth in this sector is the increased emphasis on occupational safety and health (OSH) standards in India. The government has implemented regulations such as the Occupational Safety, Health, and Working Conditions Code, 2020, which mandates the use of personal protective equipment (PPE) and other safety measures in hazardous industries. Additionally, the pandemic-induced surge in demand for PPE kits, gloves, and masks has further expanded the market, with the healthcare sector emerging as a significant contributor.





AS INDUSTRIES CONTINUE TO PRIORITISE WORKER SAFETY, THE SAFETY EQUIPMENT MARKET IN INDIA IS POISED FOR SUSTAINED EXPANSION. INCREASED ADOPTION OF AUTOMATION AND ADVANCED SAFETY TECHNOLOGIES, COUPLED WITH PROACTIVE GOVERNMENT POLICIES, WILL PLAY A CRUCIAL ROLE IN SHAPING THE MARKET'S TRAJECTORY

“Mega infrastructure projects, such as the Smart Cities Mission and Bharatmala Pariyojana, have necessitated the use of safety gear like helmets, reflective jackets, and safety harnesses to protect workers. Similarly, the expansion of the manufacturing and automotive industries has bolstered the need for equipment such as gloves, goggles, and fire-resistant clothing,” shares Rohan Ahuja, head of a safety equipment manufacturing unit.

Companies are investing in research and development to introduce advanced materials and smart safety equipment, such as IoT-enabled helmets and wearable devices that monitor worker health in real-time. Moreover, initiatives like ‘Make in India’ are encouraging domestic

manufacturing, reducing dependency on imports and making safety equipment more accessible and affordable.

As industries continue to grow and prioritise worker safety, the safety equipment market in India is poised for sustained expansion. Increased adoption of automation and advanced safety technologies, coupled with proactive government policies, will play a crucial role in shaping the market’s trajectory.

In conclusion, the safety equipment market in India is not just a business opportunity but a cornerstone for ensuring the well-being of millions of workers. By fostering innovation, enforcing standards, and promoting awareness, the industry can contribute to a safer and more productive workforce.





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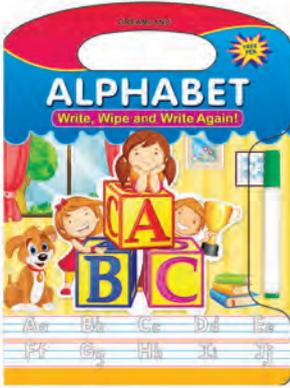
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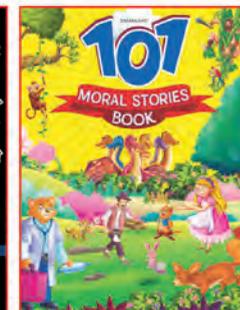
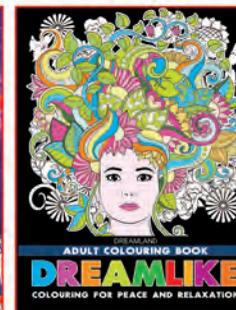
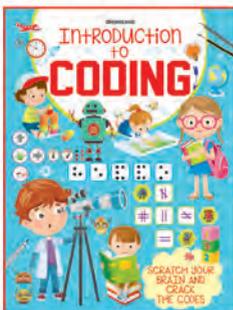
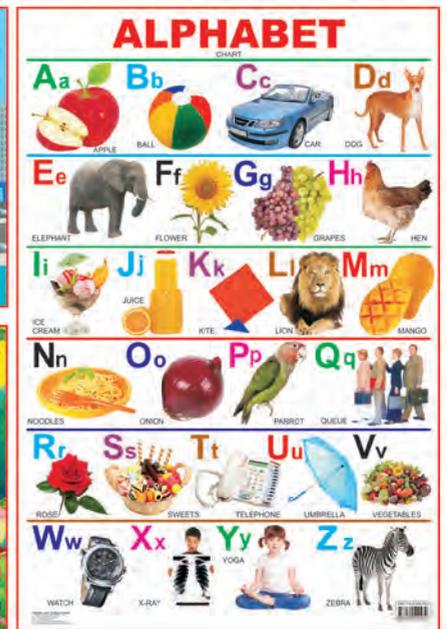
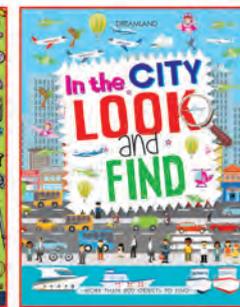
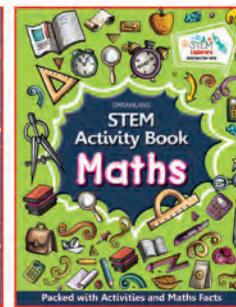
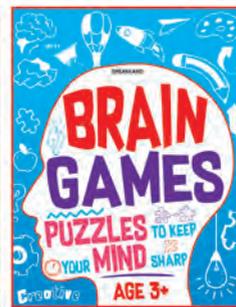
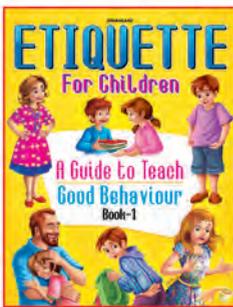
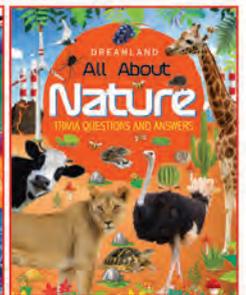
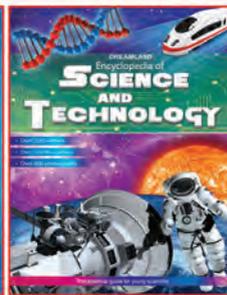
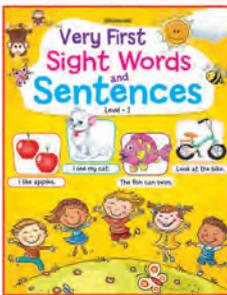
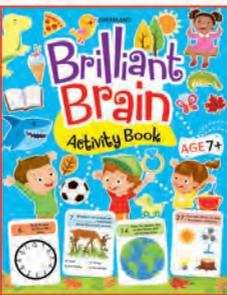
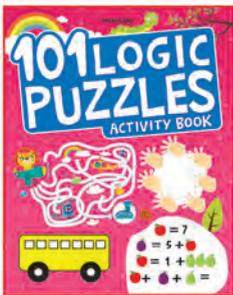
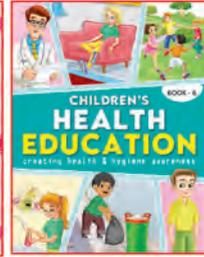
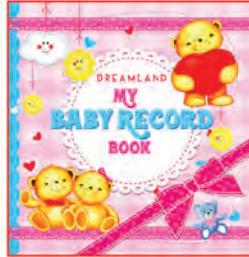
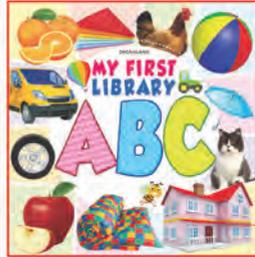
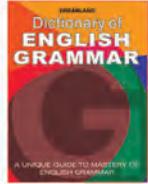
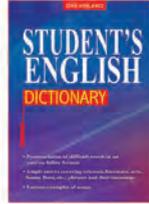
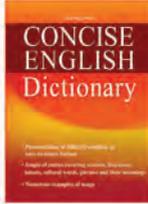
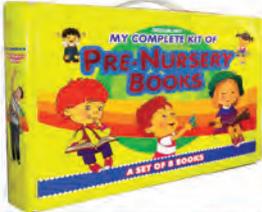
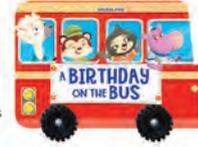
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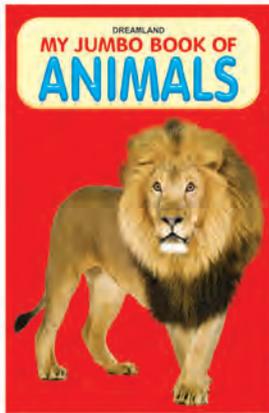
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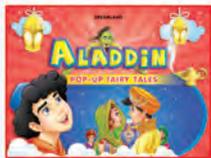


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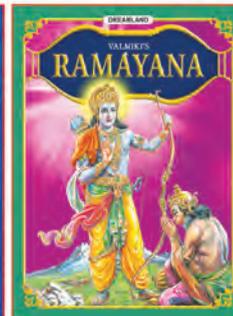
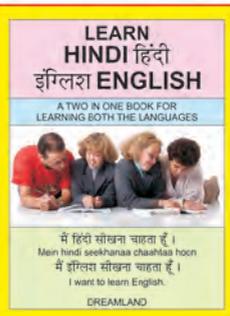
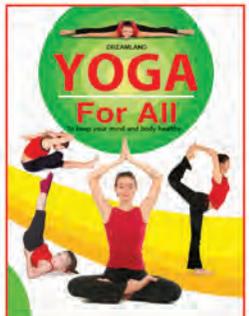
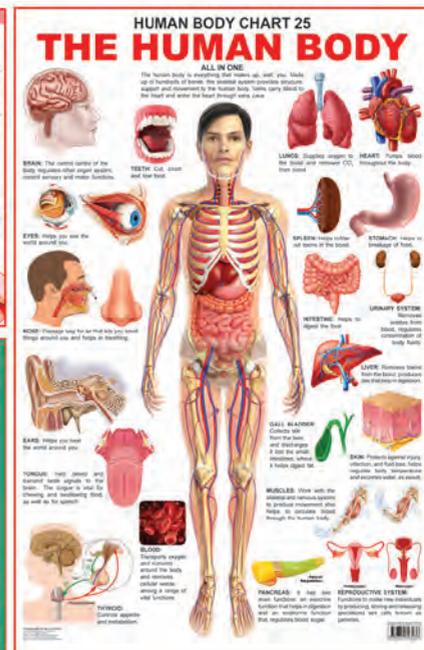
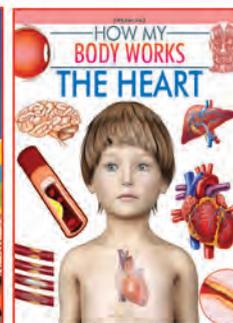
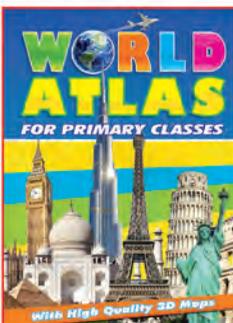
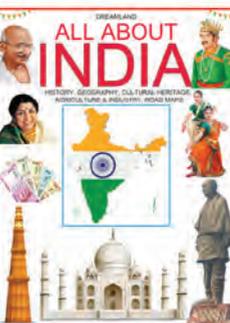
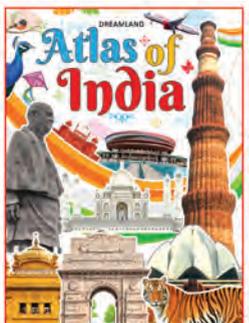
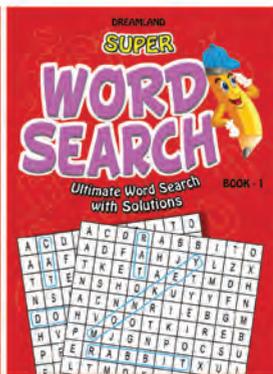
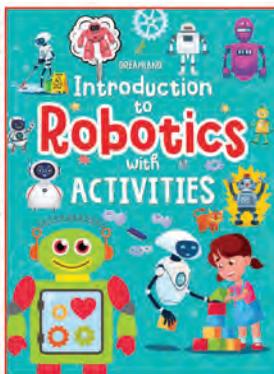
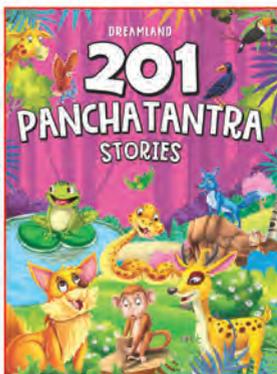
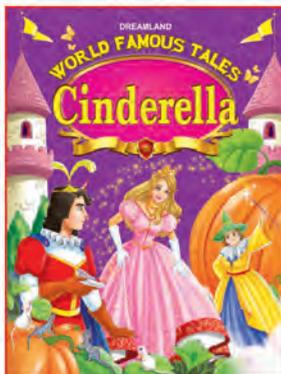
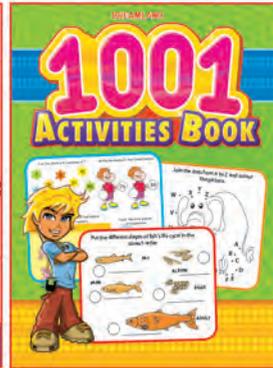
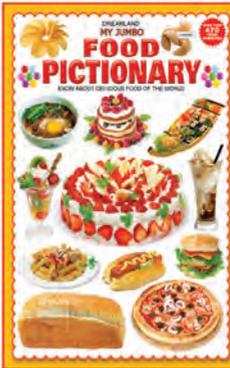
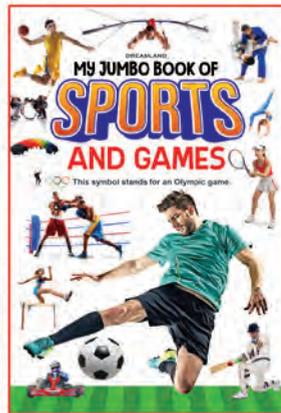
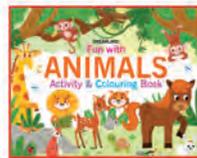
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For SAHIBABAD INDUSTRIES ASSOCIATION +
Mukesh Gupta
MUKESH GUPTA
GENERAL SECRETARY

SIA Sahibabad Industries Association (Regd.)
Ph: 0120-4117070, 8510927070
Regd. Office: 42/29, Site IV Industrial Area, Sahibabad, Ghazabad - 201010, U.P.
E-mail: saahibad@rediffmail.com, Website: www.sahibad.com

Date: 2023.02.22 / २०२३.०२.२२

To,
The Times of India
Make in india magazine noida.

Subject : Make in india magazine 700 copies.

Dear Sir,
This is in regards to the above mention that we have received 700 copies and the same will be distribute to our members.

Thanks & Regards
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MUKESH GUPTA
GEN. SECRETARY

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To,
The Times of India
NOIDA

Subj: Regarding Copies of Make in India Magazine

Dear Sir,
As discussed about the launching of your 'Make in India' magazine.
We would like to take 100 Number of copies of the same as we have 80 active members in our association.
Please provide the same.
Thanking you.
For Valves & Cocks Manufacturing Association (Regd.),
Amal Khawari
Amal Khawari
Gen Secretary

ALMTI Association of Ludhiana Machine Tool Industries
Ph: 91-174-2612222, 91-174-2612222
E-mail: almti@almti.com, Website: www.almti.com

Ref: SA/MTI/SS/2023/01/23

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The Times of India,
NOIDA.

Sub: Regarding Copies of Make In India Magazine

Dear Sir,
As discussed about the launching of your "Make In India" Magazine, we would like to take 170 Copies of the same for distribution amongst our members, as we have 170 Active Members in our Association.
We shall be grateful if you kindly provide us the said number of copies so that we could distribute the same in our members.
Thanking you,
With best regards,
Association of Ludhiana Machine Tool Industries,
Surinder Singh
Surinder Singh
(Surinder Singh)
Office Secretary
9815288182

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Gen. Secretary: **V.K. SETH** # 98119-13160

To,
The Times of India
Make In India Magazine

Sub : Make In India Magazine 500 copies

Dear Sir,
This is in regard to the above mention that we have received 500 copies and the same will be distributed to our Members.

Thanks & Regards,
For Noida Entrepreneurs Association
V.K. Seth

Patparganj F.I.E Entrepreneurs Association (Regd.)
Ph: 91-174-2612222, 91-174-2612222
E-mail: pfga@ppga.com, Website: www.pfga.com

Ref: MMM/2023/235
Date: 11.04.2023

To,
The Times of India,
Make in India Magazine Noida

Subject: Make in india magazine 400 copies received.

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This is in regards to the above mention subject that we have received 400 copies and the same will be distribute to our members.

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MAKING A GLOBAL MARK

WITH ECO-FRIENDLY PRACTICES AND ADVANCED TECHNOLOGIES, LUDHIANA STEEL INDUSTRY IS SHAPING ITS FUTURE ON THE WORLD STAGE

GIRISH DUTT SHUKLA

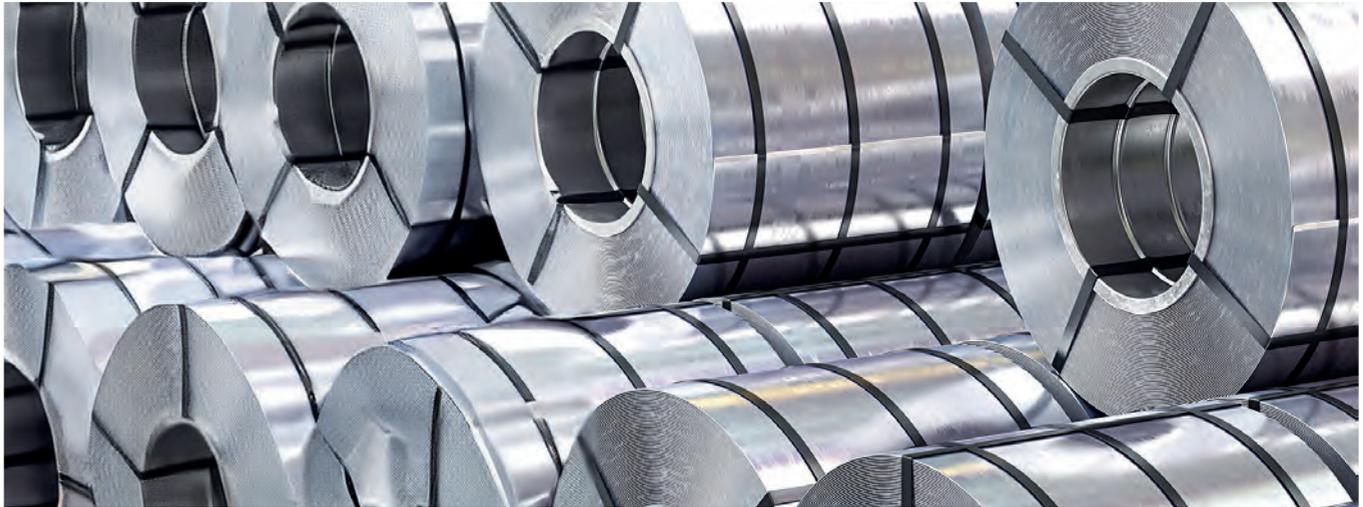
As India continues its dominance in the steel industry, positioning itself as the second-largest steel producer in the world, the emergence of Ludhiana as the steel powerhouse of Punjab is set to drive the country's global market expansion efforts further. The industrial heartland of Punjab, recognised for its robust manufacturing capabilities, has emerged as a central hub

for steel production and distribution, fueled by the integration of advanced technologies and innovative practices.

Today, the city is home to numerous steel-producing units ranging from small-scale endeavours to big machinery enterprises.

Ludhiana's steel industry, which has positively contributed to India's economic growth over recent years, is poised to make a big impact on the global stage with its various new products and initiatives. The industry's potential to provide a wide range of steel offerings, including products of different sizes, grades, and finishes, coupled with the city's abundant iron ore reserves

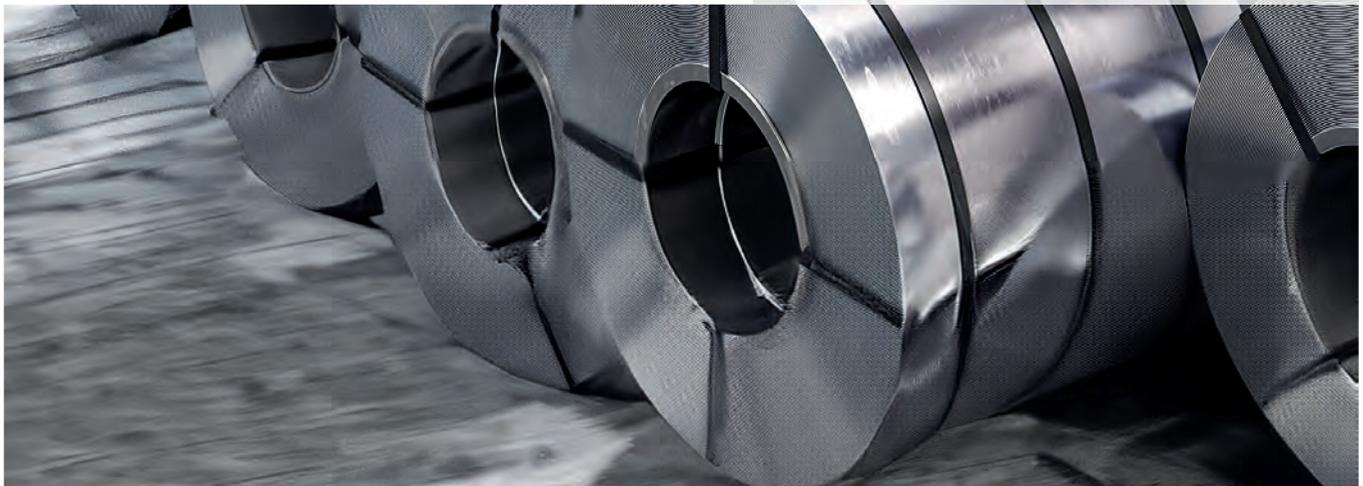




and availability of low-cost manpower make Ludhiana's steel industry competitive in the global setup. Be it manufacturing, automotive, or construction, Punjab's steel hub is equipped to meet the diverse demands and needs of various industries across the globe.

"Being part of the steel manufacturing ecosystem in Ludhiana, I've witnessed firsthand how its commitment to quality has built trust among global buyers," says a manufacturer.

Numerous initiatives and policies that the government has undertaken over the past few years also have to be credited for the growth of the sector at the global level. Technology and innovation have been the cornerstone of the steel industry's success in India, especially Ludhiana. Advanced manufacturing practices, including automation and AI-based quality control, have significantly enhanced both the efficiency and reliability of manufacturing processes. As former Union Minister of Steel, Jyotiraditya Scindia, noted, these stringent



quality measures were implemented as part of standardising the quality of steel products, thus making them more competitive in the global market. This focus on quality has been a crucial factor for India's steel industry in fostering trust and credibility among international consumers.

The 'Made in India' label, which has successfully managed to establish a mark of quality and trust, carries a lot of weight in the global market today. This unified and distinct identity allows consumers to make informed decisions and increases the visibility of Indian steel products globally. As of June 2024, the Indian steel producers (ISPs) have marked 80 per cent of their steel offerings with a 'Made in India' label. This label is accompanied by a QR code, which provides the details of the steel products, thus ensuring transparency in the quality and origin of the goods. By enabling industry stakeholders and buyers to verify the authenticity of the product, the QR code on the label helps in combating



THE INDUSTRY'S POTENTIAL TO PROVIDE A WIDE RANGE OF STEEL OFFERINGS, INCLUDING PRODUCTS OF DIFFERENT SIZES, GRADES, AND FINISHES, COUPLED WITH THE CITY'S ABUNDANT IRON ORE RESERVES AND AVAILABILITY OF LOW-COST MANPOWER, MAKE LUDHIANA'S STEEL INDUSTRY COMPETITIVE IN THE GLOBAL SETUP



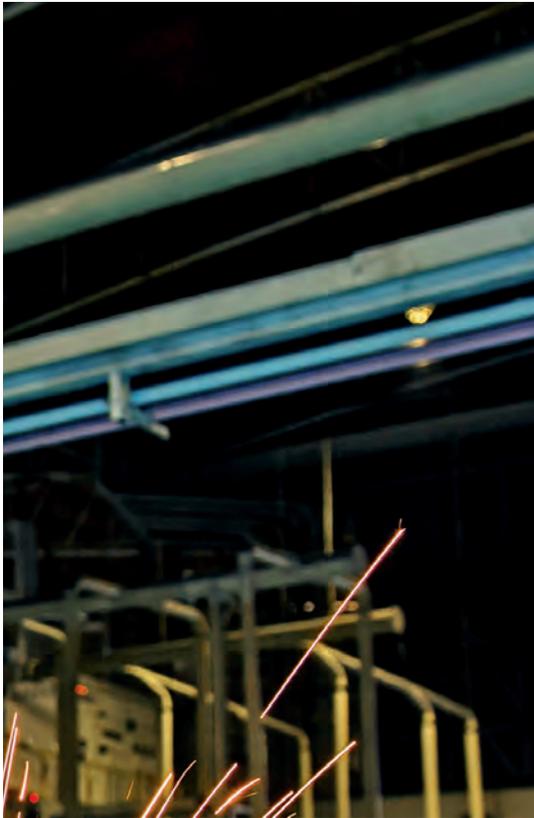
counterfeit goods, thus reinforcing the brand's credibility.

"Knowing that Indian steel comes with a QR-coded assurance of quality makes me more confident as a buyer. It reflects a level of transparency that's rare," commented a construction professional.

Above all, the label supports or aligns with Prime Minister Narendra Modi's 'Make in India' vision. This branding initiative under the 'Aatmanirbhar Bharat' (Self-reliant India) programme will help promote domestic manufacturing of steel products, making the Indian steel industry more appealing to international buyers. If every strategy under

various initiatives including the National Steel Policy (NSP) of 2017 works as planned, India will achieve its goal of becoming self-sufficient in steel production by 2030-31.

Today, the global trend suggests that people are increasingly leaning towards markets that are willing to adopt sustainable practices to reduce their carbon footprint, and this applies to the steel industry as well. Under these circumstances, India is more focussed on developing eco-friendly steel that helps in conserving natural resources. The Indian steel industry is making continuous efforts to adopt green technologies and processes to prevent the negative impact on biodiversity and ecosystems. This involves employing renewable



IF EVERY STRATEGY UNDER VARIOUS INITIATIVES, INCLUDING THE NATIONAL STEEL POLICY (NSP) OF 2017 WORKS AS PLANNED, INDIA WILL ACHIEVE ITS GOAL OF BECOMING SELF-SUFFICIENT IN STEEL PRODUCTION BY 2030-31

energy sources, recycling waste, implementing energy-efficient manufacturing processes, and creating durable steel products. By demonstrating its commitment to sustainability, the Indian steel industry is attracting more consumers as a forward-thinking and responsible exporter of steel.

"The shift towards green steel is a game-changer. It's amazing to see Ludhiana take the lead in sustainable manufacturing, making us proud on the global stage," says an environmental advocate.

Tata Steel is leading by example with their first-ever green steel plant set up in Punjab's Ludhiana. The plant, which is to be commissioned by March 2025, comes with two promises: manufacturing steel with 40 per cent less carbon emissions by 2030 and becoming a CO₂-neutral steel producer by 2045. Additionally, the green steel plant will also generate 500 direct and 2,000 indirect job opportunities.

The 'Make in India' programme has so far turned out to be a game-changing initiative for the Indian steel industry. The continued focus on quality, standardisation, and branding has not only enabled India to boost its economy but also reinforced its reputation as a global industrial leader. With its investment in technology and innovation, and the commitment to manufacture high-quality products, Ludhiana solidifies its position as one of modern India's dynamic steel hubs.





THE INSPIRING JOURNEY OF PUNJAB'S STEEL INDUSTRY

STEEL HAS BEEN THE BACKBONE OF THE STATE'S ECONOMY, DEMONSTRATING RESILIENCE BY OVERCOMING OCCASIONAL HURDLES TO EMERGE EVEN STRONGER

NEHA BORAH



Punjab's steel industries have dominated its economy for decades. Cities like Mandi Gobindgarh, and Ludhiana have taken their brand to the highest levels. This industry has been flourishing in the state since the early 20th century. Mandi Gobindgarh has become well known as a prominent 'Loha Mandi' for steel production, with several rolling mills, induction furnaces, and foundries located there. Ludhiana is another important city that has emerged as a manufacturing hub for steel products, mainly catering to the automobile and machinery industries. These two cities have catalysed the industrial scenario of Punjab.

The economic contribution of this sector is equally immense. According to a Deloitte report, Punjab alone consumed 7.34 million tonnes of finished steel in 2022-2023, with a total annual growth rate of 3.65 per cent over the last ten years. As an ancillary sector, it largely contributes to India's GDP and multiplies employment and industrial growth.

According to Amardeep Singh, an industrialist of Mandi Gobindgarh, "Steel has been the backbone of Punjab's economy. This sector has given our state its identity and one can find small workshops as well as large-scale manufacturing units."



ACCORDING TO REUTERS, THE DEMAND FOR INDIAN STEEL WOULD BE ON AN UPTREND. IT IS GOING TO BE THE HIGHEST FROM CONSTRUCTION, RAILWAYS, AND THE AUTOMOBILE INDUSTRIES

OVERCOMING BARRIERS

Fluctuations are common even in an industry like steel in Punjab. Nothing can remain steady and there are challenges to be faced. One concern is the low-priced Chinese steel, which requires collective efforts to overcome it. According to a report by Reuters, steel imports from China have increased by more than 30

per cent, which is quite visible in the local market.

"Low-price Chinese steel is being sold at prices way below our cost of production," says Rakesh Kumar, mill owner based in Ludhiana. "We can still overcome it with the right set of plans."

The numbers themselves narrate the story. Small and medium-sized mills, which account for 41 per cent of India's steel production and employ more than 1.5 million workers, have seen capacity utilisation fall by almost a third in the last six months.

But we have good news, too. The Indian government has started to counter the ongoing concerns with effective measures. For instance, anti-dumping investigations are currently underway, specifically targeting steel product imports from countries such as China and Vietnam. Significant discussions have also been held regarding restricting imports of metallurgical coke, a fundamental steel-making material.

At the same time, the Union Ministry of Steel has proposed a sharp 25 per cent safeguard duty on steel imports. However, this proposal has received diversified responses. Big steel companies welcomed it, while some



SMEs in Punjab viewed it with doubt as they believe the cost of raw materials could increase and operations would become even tougher.

FUTURE PROSPECTS

The hope for the future of the steel industry in Punjab is still bright. According to Reuters, demand for Indian steel would be on an uptrend. The demand is going to be the highest from construction, railways, and the automobile industries. This augurs well Punjab’s steel industry.

Industry experts have proposed several measures, including high-technology investments such as automation and energy-efficient processes that reduce the cost of production. Another option is diversifying product lines to niche markets, such as producing high-grade steel for special industries. Export opportunities to

neighbouring countries can also alleviate pressures on domestic markets. Such policies can be implemented if the government and private sector cooperate. Financial incentives, such as subsidies or low-interest loans, will further empower smaller units to improve their infrastructure and become competitive worldwide.

Collective action is the call of the moment. Policymakers will need to implement protection measures, industry leaders will have to invest in innovation, and manufacturers will have to adapt to compete. In this critical phase, Punjab has the opportunity to demonstrate the potential of the steel industry to become stronger and maintain its legacy as the backbone of the region’s economy.

Steel is a symbol of Punjab’s strength and endurance; with the right strategies, challenges can be overcome.

KEY HIGHLIGHTS

>> PUNJAB CONSUMED AROUND 734 MILLION TONNES OF STEEL IN 2022-2023, WITH A 3.65% CAGR GROWTH

>> CHINESE STEEL IMPORTS SURGED 30% IN 2024, DISRUPTING LOCAL SMES PRODUCING 41% OF INDIA’S STEEL

>> SMEs EMPLOYING 1.5 MILLION WORKERS FACE CAPACITY DROPS OF ONE-THIRD DUE TO COMPETITION

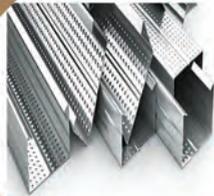
>> THE GOVERNMENT PROPOSES A 25% IMPORT SAFEGUARD DUTY TO PROTECT LOCAL PRODUCERS

>> DOMESTIC STEEL DEMAND IS PROJECTED TO GROW 8%-9% IN FY 2024-2025



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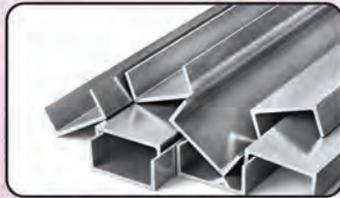
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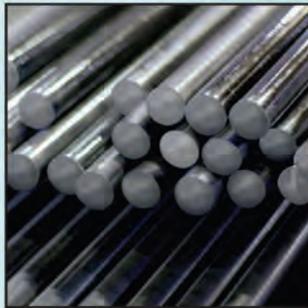
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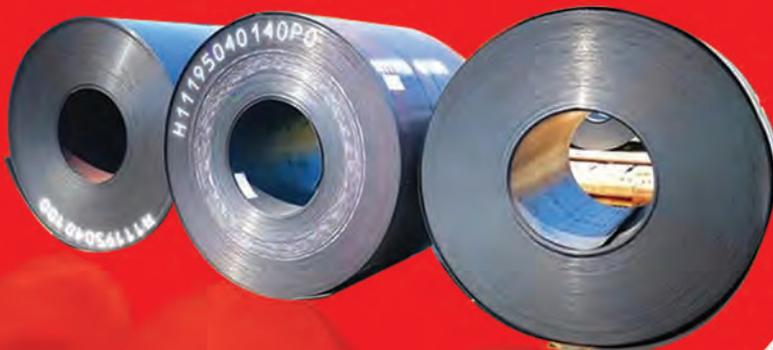
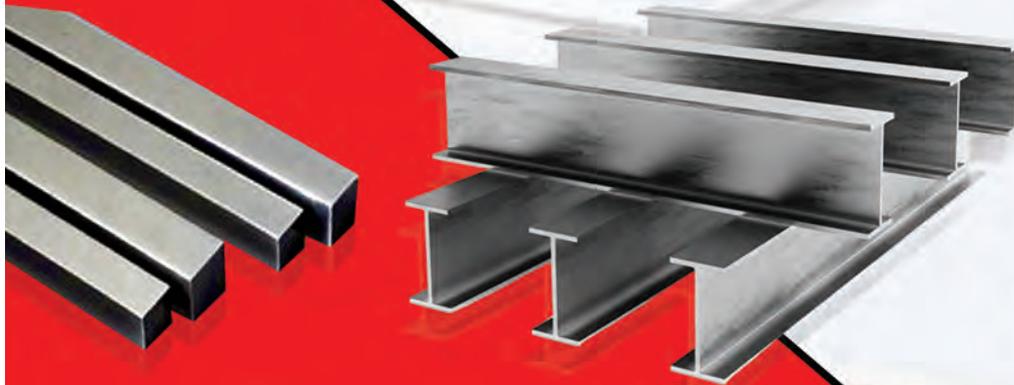


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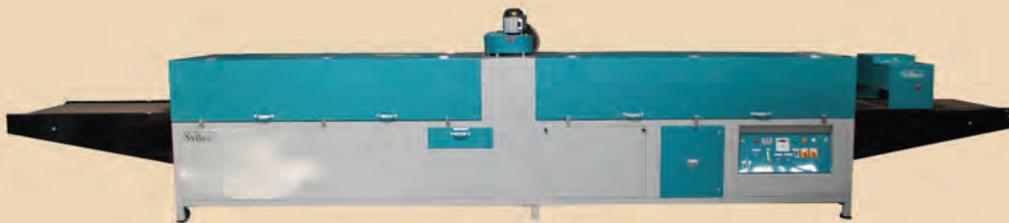


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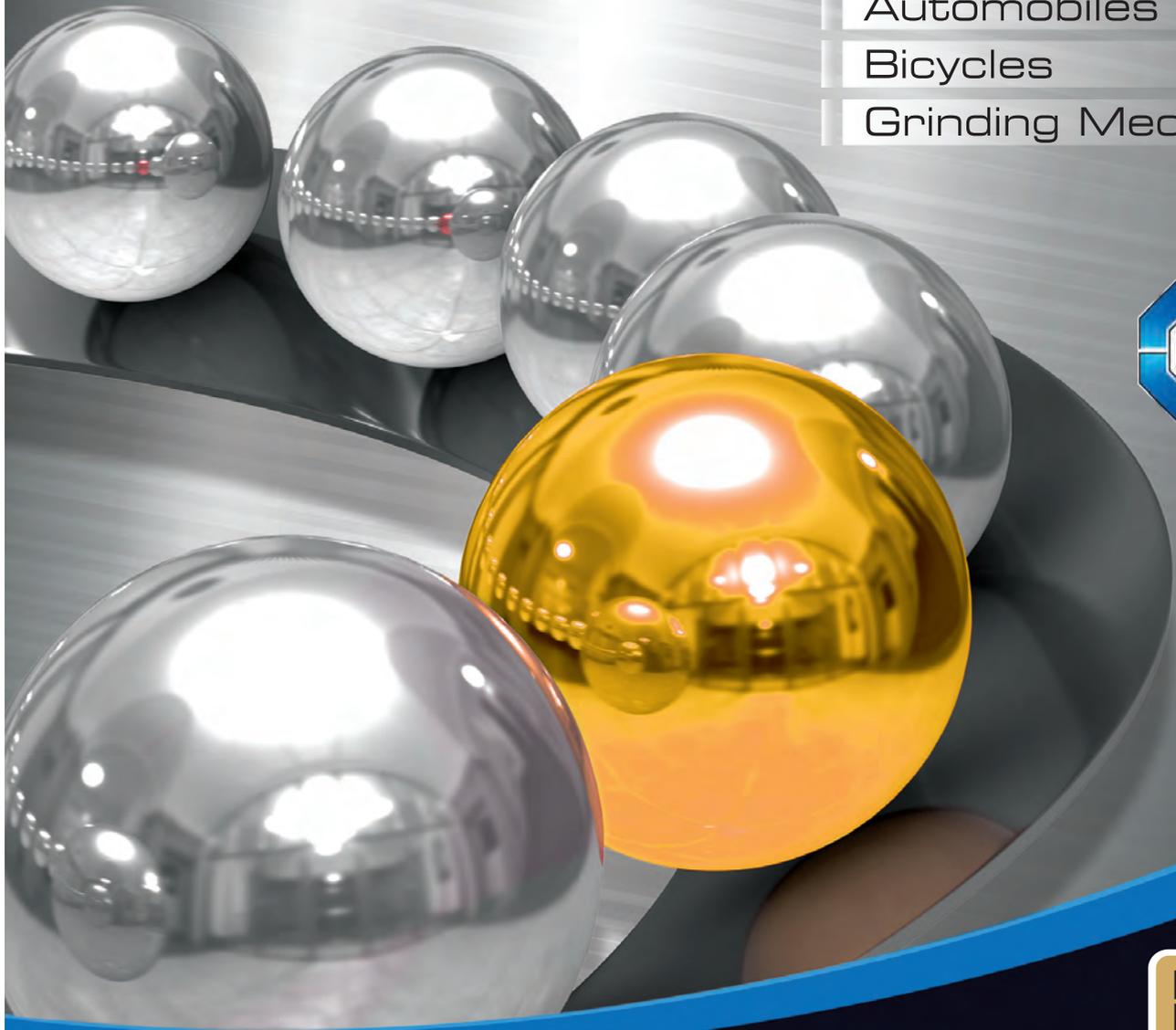
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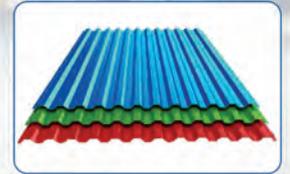
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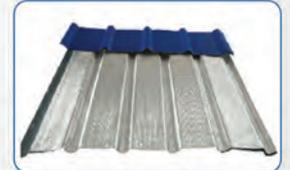
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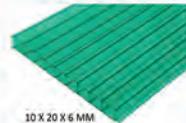
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Metal Roofing Sheet Green
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10 X 20 X 6 MM

Polycarbonate Roof Sheet
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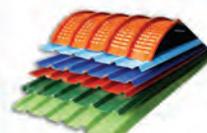
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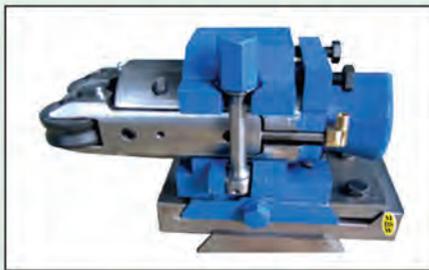


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MAKE IN INDIA IS SHAPING THE FUTURE OF MANUFACTURING

THE INITIATIVE IS TRANSFORMING THE SECTOR BY BOOSTING INNOVATION, GLOBAL INVESTMENTS, AND JOBS

GIRISH DUTT SHUKLA

The 'Make in India' initiative, which completed a decade this year since its launch in September 2014, has played a crucial role in boosting the country's manufacturing sector. An ambitious campaign launched to support domestic manufacturing and establish India's position as a global manufacturing powerhouse, it has been pivotal in driving innovation, attracting global investments, and creating employment opportunities. Today, even after 10 years, the

government continues its efforts to further improve India's competitiveness in the global market, enhance economic growth, and reduce dependency on foreign goods through this programme.

"Make in India has brought immense hope to small entrepreneurs like me. It has given us a platform to think big and compete globally," shared a small-scale manufacturer.

Various key manufacturing sectors, including automotive, renewable energy,





pharmaceuticals, aerospace, textiles, biotechnology, electronics, food processing, and chemicals, are covered under the 'Make in India' initiative. Leveraging technological advancements, ensuring quality at scale, simplifying business processes, and promoting infrastructure and skill development are key pillars of this strategy. The programme's goal has been to encourage both domestic and international organisations to set up their manufacturing units in India by providing them with a favourable environment to thrive.

Historically, India has been associated with large-scale, labour-intensive production of goods. However, with the addition of new manufacturing frontiers such as space, electric vehicles, green hydrogen, and defence, and the country prioritising quality over quantity, a paradigm shift has been observed in the manufacturing landscape of India over the last decade.

The ZED scheme introduced by Prime Minister Narendra Modi is one such example of a policy that is focussed on improving the quality of domestic manufacturing. The goal of the ZED scheme is to have zero defects and zero effects on manufactured goods. This policy would translate to the production of high-quality products with little to no impact on the environment. It has drawn the attention of global investors towards India's potential to manufacture world-class, sustainable products.

"Being part of the manufacturing workforce, I've seen how skill development programmes have improved our output and boosted confidence among young workers," remarked a factory worker.

The 'Make in India' programme offers several incentives and policies for companies to begin their manufacturing operations in India. Numerous reforms have been



VARIOUS KEY MANUFACTURING SECTORS, INCLUDING AUTOMOTIVE, RENEWABLE ENERGY, PHARMACEUTICALS, AEROSPACE, TEXTILES, BIOTECHNOLOGY, ELECTRONICS, FOOD PROCESSING, AND CHEMICALS, ARE COVERED UNDER THE 'MAKE IN INDIA' INITIATIVE



INNOVATION AND ADOPTION OF TECHNOLOGICAL ADVANCEMENTS HAVE BEEN THE CORNERSTONE OF IMPROVING THE MANUFACTURING SECTOR IN INDIA. TO COMPETE WITH GLOBAL MARKETS, COMPANIES ARE ENCOURAGED TO INFUSE CREATIVITY AND INNOVATION INTO THEIR PROCESSES AND OFFERINGS

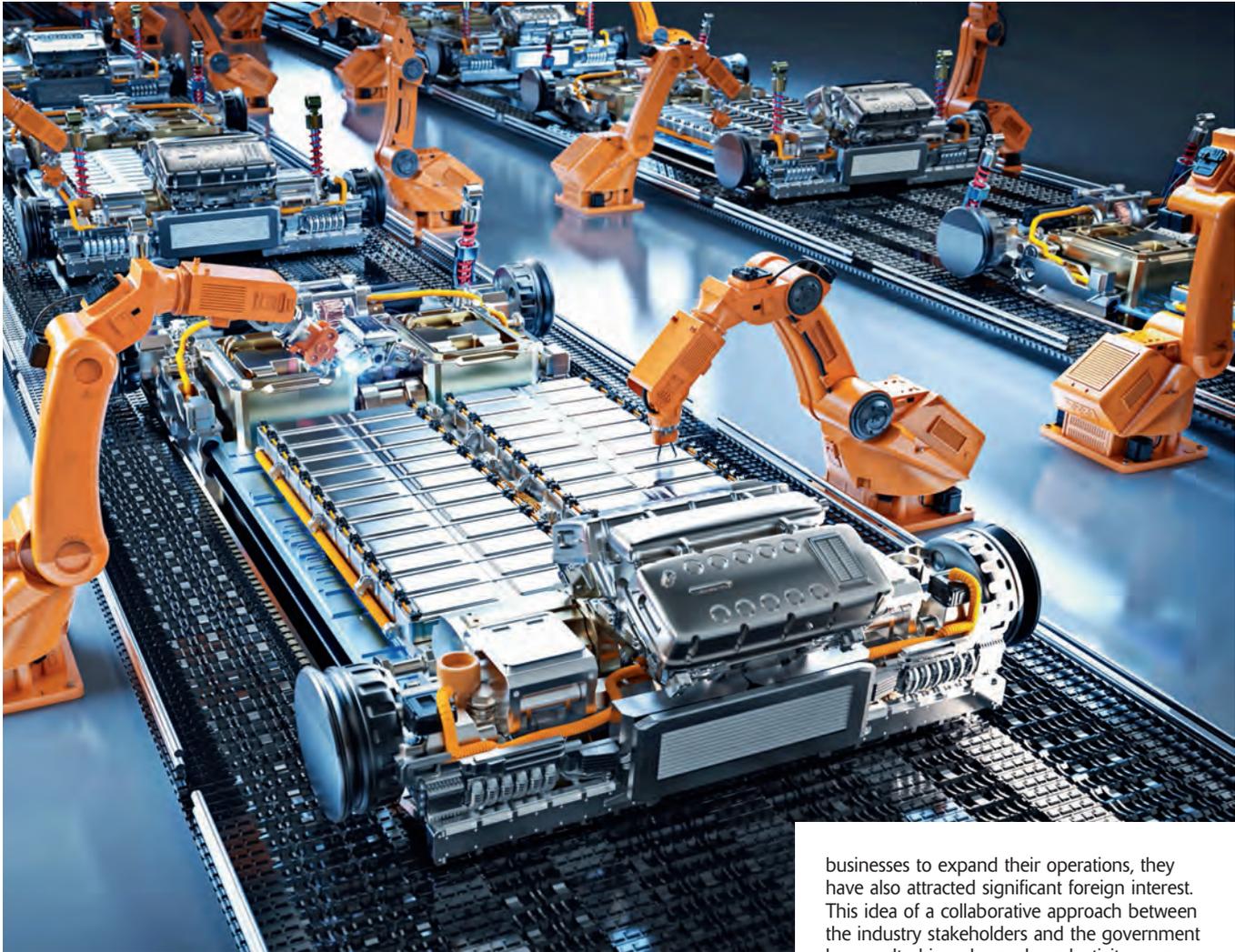
implemented by the government to reduce bureaucratic red tape, simplify business procedures, and streamline regulatory processes. Digitisation of various licenses, introduction of an online application system, and launch of a single-window clearance mechanism reduce the delays that are often associated with starting and operating a manufacturing unit. Additionally, the customised investment facilitation services help in smooth navigation through regulatory requirements, procurement of necessary clearances, and location of ideal places for factory setup. Financial institutions have also been advised to provide loans at competitive rates.

Once these companies open their facilities and begin operations, the need for a skilled workforce to manage the units has led to a rise in job opportunities, especially for youth, in India. These individuals are offered skill development and vocational training programmes to ensure that they are equipped with the necessary skills to effectively contribute to the manufacturing sector.

Innovation and adoption of technological advancements have been the cornerstone of improving the manufacturing sector in India. To compete with global markets, companies are encouraged to infuse creativity and innovation into their processes and offerings. To facilitate this, the initiative encourages collaboration between industries, promotes research and developmental activities, and aids in implementing cutting-edge technologies in business operations. All these measures have not only improved the quality of goods but also succeeded in placing India as a technologically advanced manufacturing hub in the global market.

"The fact that foreign companies are investing here is a testament to India's growing capabilities. It makes me proud to contribute to such a promising industry," notes a young engineer working in the renewable energy sector.

While the above-mentioned incentives and policy frameworks have been instrumental in motivating domestic



businesses to expand their operations, they have also attracted significant foreign interest. This idea of a collaborative approach between the industry stakeholders and the government has resulted in enhanced productivity across various industries. Along with consistency in output, the digital transformation has paved the way for a significant reduction in waste generation, further adding to the country's sustainability efforts in the manufacturing industry.

With the increase in the production of quality goods, job and skill development opportunities, and technological innovations, the 'Make in India' initiative will continue to have a huge positive influence on the manufacturing sector of India. Going forward, the success of the 'Make in India' programme will depend on how the country's manufacturing sector adapts to evolving global trends, incorporates advanced technologies into their operations, and creates a platform to foster strategic partnerships with industry and academia. To access international markets further, policymakers need to focus more on helping businesses to grow and scale up by providing maximum relief on regulatory compliance burdens.





PREMIUM BRANDS ARE REDEFINING VALUE

LUXURY IS EVOLVING BEYOND PRICE TAGS, FOCUSING ON SUSTAINABILITY, HERITAGE, AND EMOTIONAL CONNECTIONS

GIRISH DUTT SHUKLA

In the realm of luxury and premium, the price of a product meant a lot more than just a number—it used to be the statement of value. As the world of premium shopping is evolving, people's understanding of "luxury" is being redefined and price setting is no longer the only tool for communicating a luxury brand's identity and positioning. Today, the perception of luxury is less influenced by a brand name or its price tag; rather, it is now more about a lifestyle, experience, and mindset. Luxury purchases are driven by aspects such as quality, story, and sustainability of the product. Here, the promise of exclusivity remains key, but instead of the expense, it is characterised by rarity.

Sustainability and social responsibility have cemented themselves as important purchasing factors for luxury products. Consumers are willing to be associated with brands that align with their ethical values and work to have a positive impact on the planet. As a result, they seek accountability and transparency of the brand while making the purchases. Although some claim that luxury has ceased to be an expression of indulgence, buying premium is still associated with feelings of joy and pride in oneself. For many, this emotional aspect is key to the whole experience of purchasing luxury goods.

Consumers now demand stronger

relationships with brands, where personalisation and experiences hold more significance than price value. Thus, brands are looking forward to demonstrating value by extending the premium experiences beyond the store visit. Digitalisation has redefined the way people shop today. "To maintain luxury, brands need to evolve and improve customers' digital experience by taking advantage of technological advancements," shares Rohan Sharma, another entrepreneur.

In the fast-paced world that we live in today, there is a growing appreciation for quiet and slow luxury. Over-consumption has forced people to take a step back and return back to their roots. Earlier, the price tag of a luxury product used to be a symbol of status. Today, it's the brand's personalised approach and ethical practices that make the consumers feel valued and understood.



CONSUMERS ARE WILLING TO BE ASSOCIATED WITH BRANDS THAT ALIGN WITH THEIR ETHICAL VALUES AND WORK TO HAVE A POSITIVE IMPACT ON THE PLANET. AS A RESULT, THEY SEEK ACCOUNTABILITY AND TRANSPARENCY OF THE BRAND WHILE MAKING THE PURCHASES





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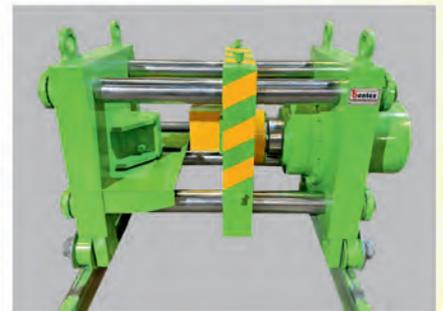
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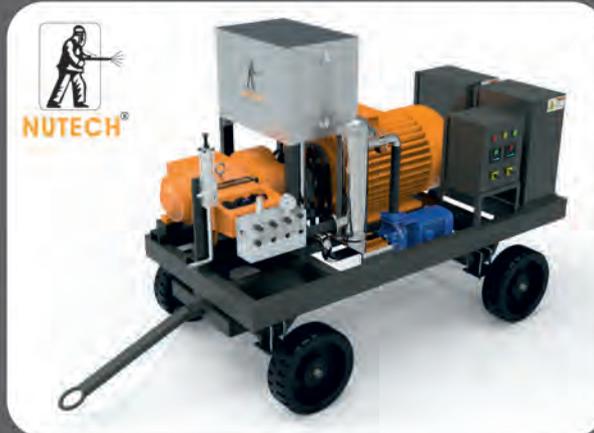
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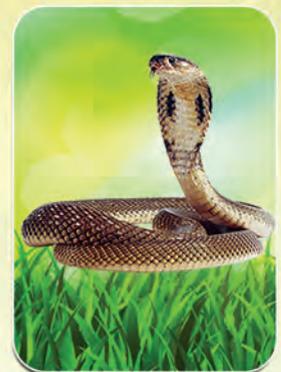
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