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August 2026 - September 2026 | Issue No. 80

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Padmesh Prabhune

Dhruv Communications, Mumbai

Design & layout

Claps & Whistles, Mumbai

Printer

Prudent Arts & Fab Pvt. Ltd., Mumbai

Contributions represent the opinion of authors and are not necessarily official views of Plastindia Foundation. All our readers are requested to share their feedback or in case they wish to contribute an article, kindly write to us at insights@plastindia.org



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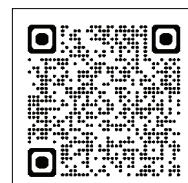
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Dear Colleagues,

It is with immense humility and a profound sense of responsibility that I thank the Managing Committee Members of Plastindia Foundation and my colleagues across the plastics industry for electing me as the President of Plastindia Foundation and for placing their faith in me. I am deeply honored by this responsibility and remain committed to carrying forward the rich legacy built over decades by our predecessors, founding members and industry leaders.

The Indian plastics industry stands at an important juncture. From being a key manufacturing sector, plastics has evolved into an integral part of India's economic and industrial ecosystem, supporting packaging, agriculture, automotive, infrastructure, healthcare, electronics, consumer goods, AI & several other sectors. With India's manufacturing ambitions, growing domestic consumption and expanding export opportunities, the industry has significant potential for further growth. At the same time, we must recognise the challenges before us, including global geopolitical uncertainties, volatile crude oil and polymer prices, changing trade dynamics, sustainability expectations and the need to strengthen competitiveness across the value chain.

Our collective response to these challenges will define the next phase of the industry's growth. Plastindia Foundation will continue to work as a platform that brings together manufacturers, processors, technology providers, exporters, policymakers, researchers and other stakeholders to address emerging issues and create new opportunities.

A key milestone ahead is PLASTINDIA 2028, the 13th edition of the International Plastics Exhibition, Conference & Convention, scheduled from 10–14 February 2028 at Bharat Mandapam, New Delhi. I am pleased to inform our members that the Managing Committee of Plastindia Foundation has appointed Mr. Kailash B. Murarka as Chairman of the National Executive Council (NEC) for PLASTINDIA 2028. His leadership, together with the collective efforts of the industry, will be important in making the forthcoming edition a meaningful platform for business, technology, knowledge and collaboration.

Keeping in view the current hardships faced by the industry, including the impact of global conflicts and fluctuations in polymer and oil prices, the space booking rates for PLASTINDIA 2028 have been retained at the same level as the previous edition, PLASTINDIA 2026. This reflects our commitment to supporting industry participation during a challenging period.

However, Plastindia Foundation's role extends far beyond organising exhibitions. We will continue to strengthen our work in education, exports, advocacy, sustainability and industry development, while creating greater opportunities for knowledge sharing and international engagement.

The opening of our regional office in Delhi, the national capital, will further facilitate interaction with government officials, ministries, institutions and policymakers. This will help strengthen the industry's communication with government and ensure that its concerns, aspirations and opportunities are effectively represented.

The road ahead calls for collaboration, innovation and resilience. With the continued support of our members and the collective strength of the Indian plastics industry, I am confident that we can build on our legacy and create new pathways for sustainable and inclusive growth.

I look forward to working with all of you in this journey.



Dr. Raju Desai
Hon' President,
Plastindia Foundation



Intelligence at Work on the Plastics Production Floor

Not long ago, a conversation about Artificial Intelligence in the plastics industry would have been met with polite scepticism — a technology that seemed firmly rooted in Silicon Valley boardrooms rather than on the production floor in Pune or Ahmedabad. That perception has changed decisively. Today, AI is working — quietly and often invisibly — analysing injection moulding parameters, monitoring extrusion lines in real time, detecting defects at production speed, predicting equipment failures and helping recyclers sort mixed polymer streams with remarkable precision. The global AI in manufacturing market, valued at USD 3.2 billion in 2023, is projected to exceed USD 20 billion by 2030, growing at over 30% annually. India, with over 30,000 plastics processing units, is increasingly — and rightly — part of this shift.

Plastics processing is precision-dependent in a way that makes it particularly well-suited for AI. A variation of a few degrees in barrel temperature, a marginal shift in injection pressure, or an inconsistency in cooling time can affect final product quality significantly. Modern processing facilities generate enormous volumes of machine data every shift — data that has historically been recorded but rarely acted upon in any meaningful way. The opportunity AI presents is precisely the

conversion of that accumulated data into real-time, actionable intelligence. The machines were always talking. We now have the means to truly listen.

Predictive Maintenance: From Reactive to Anticipatory

This is, in my view, the application with the most immediate and tangible return on investment for the Indian industry. Unplanned downtime is among the most costly disruptions in manufacturing — industry estimates place the average cost at USD 260,000 per hour in lost production. AI-enabled systems that continuously monitor vibration, temperature, hydraulic pressure and energy consumption can detect early warning signs of equipment failure weeks before a breakdown would otherwise occur. Studies from early adopters indicate reductions in unplanned downtime of 30 to 50%, with overall maintenance cost savings in the range of 10 to 25%. For a processor running two or three shifts, these are not marginal gains.

Quality Control, Process Optimisation and Energy Efficiency

AI-powered machine vision systems can inspect products for dimensional variations, surface defects, colour inconsistencies and contamination at full production



“The winning factories will not be those with the most sophisticated algorithms — but those that use AI intelligently to solve the problems that actually cost them money every day.”

speed — with a consistency that manual inspection simply cannot match. In recycling, AI-driven near-infrared sorting systems identify polymer types and contaminants within milliseconds, producing higher-quality recovered material and strengthening the economic case for circularity under India's EPR framework.

In process optimisation, machine-learning systems trained on historical production data can recommend parameter settings that improve cycle times, reduce scrap and optimise material utilisation. Early implementations report cycle time reductions of 8 to 15% and scrap rate improvements of 20 to 40% — outcomes that directly improve profitability and competitiveness. Energy efficiency is another compelling dimension: AI systems that monitor heating, cooling and compressed air performance have delivered cost savings of 10 to 20%, which is material at a time when both electricity tariffs and carbon accountability obligations are rising for Indian manufacturers.

A Word of Caution for the Indian Industry

I want to be direct: successful AI adoption is not about purchasing software and declaring oneself Industry 4.0 ready. It requires connected machines, reliable data capture, trained operators and a clear identification of the specific problems AI is being asked to solve. For the small and medium-sized processors who form the backbone of our industry, the entry point should be practical and

affordable — sensor-based predictive maintenance, machine vision inspection modules retrofitted to existing lines, and process monitoring software that integrates with existing PLCs. Government schemes such as the PLI programme, TUFS, and the Smart Manufacturing for SMEs initiative under the National Manufacturing Competitiveness Programme offer financial pathways worth exploring.

An Evolution, Not a Revolution

The future of AI in plastics will be evolutionary rather than disruptive — and I say that as a considered observation, not a qualification. The factories that benefit most will not necessarily be those that invest the most in technology, but those that invest wisely: identifying the right problems, building the data infrastructure to address them, and measuring outcomes with discipline. The plastics industry has always rewarded precision, rigour and continuous improvement. Those are exactly the conditions in which AI thrives. The technology is ready. The question, as it has always been in Indian manufacturing, is whether we are prepared to move decisively from awareness to action.



Ramesh Parasuraman
Editor, Plastindia Foundation



It is with immense humility and a profound sense of responsibility that I thank the Committee Members of Plastindia Foundation, President Shri Rajubhai Desai and my colleagues across the plastics industry for electing me as the NEC Chairman-PLASTINDIA 2028 and for placing their faith in me. I am deeply honoured by this responsibility and remain committed to carrying forward the rich legacy built over decades by our predecessors, founding members and industry leaders.

The Indian plastics industry is entering a phase of significant opportunity and transformation. As India moves towards a more competitive, technology-driven and globally integrated manufacturing economy,

plastics will continue to play an important role across sectors ranging from packaging and agriculture to healthcare, automotive, infrastructure, electronics and consumer products.

It is in this larger context that PLASTINDIA 2028 assumes special significance.

As Chairman of the National Executive Council, I see the 13th edition of the International Plastics Exhibition, Conference & Convention as more than an exhibition. It is an opportunity for the industry to demonstrate its capabilities, showcase new technologies, develop business partnerships and strengthen India's position in the global plastics value chain.



The new vision of PLASTINDIA 2028 , “Powering Viksit Bharat” captures this larger ambition. As you would agree, the plastics industry is not only a manufacturing sector; it is an enabler for several critical areas of economic development. Our ability to innovate, improve productivity, develop sustainable solutions, expand exports and create employment can contribute meaningfully to India's development journey.

Please note PLASTINDIA 2028 will be held from 10 to 14 February 2028 at Bharat Mandapam, New Delhi. The event will bring together the diverse segments of the plastics ecosystem and provide a common platform for manufacturers, processors, machinery producers, technology providers, raw-material suppliers, exporters, MSMEs, buyers and other stakeholders.

The journey towards PLASTINDIA 2028 begins on 17 October 2026, when space booking will officially commence through the PLASTINDIA website. This is an

important first step towards building an exhibition that truly represents the scale, diversity and aspirations of our industry.

I therefore invite the entire plastics fraternity to come forward and start booking your space from 17 October. Your participation will help create a stronger platform for business, innovation, technology exchange and global engagement.

PLASTINDIA has grown through the collective participation of the industry. PLASTINDIA 2028 must carry that tradition forward while opening new doors for the future.

Let us come together to showcase what Indian plastics can achieve and reaffirm our collective commitment to “Powering Viksit Bharat.”



Kailash B Murarka
NEC Chairman, Plastindia Foundation



Dr. Raju Desai Elected as a President Mr. Dharmendra Gandhi Elected Vice President Dr Sameer Joshi Appointed Hon. Treasurer

Plastindia Foundation, the apex body of the major associations, organizations and institutions connected with the plastics industry in India, is pleased to announce the election of **Dr. Raju Desai** as its President, **Mr. Dharmendra Gandhi** as Vice President and **Dr. Sameer Joshi** as Hon. Treasurer for the term **2026–2028**.

The announcement was made during the Annual General Meeting (AGM) of the Foundation held on **30 July 2026** at the Plastindia Foundation office in Mumbai. The newly elected Managing Committee assumed office with immediate effect. **Dr. Raju Desai** succeeds **Mr. Ravish Kamath**, who successfully led the Foundation during the 2023–2026 term and played a significant role in strengthening the Foundation's initiatives and steering the successful organization of PLASTINDIA 2026.

A distinguished entrepreneur and one of the most respected names in the Indian plastics industry, **Dr. Raju Desai** is Chairman of the **Jyoti Group** and has over four decades of experience in plastics manufacturing, technology and industry development. He is currently the Vice President of Plastindia International University, Past President of the All India Plastics Manufacturers' Association (AIPMA), Chairman of the National Advisory Board of Plastivision India and has served Plastindia Foundation in various leadership roles, most recently as Vice President.



Accepting the responsibility, **Dr. Raju Desai** said:

"It is an honor & privilege to serve as President of Plastindia Foundation. The Indian plastics industry is entering a transformative phase driven by innovation, sustainability, circular economy initiatives and manufacturing excellence. Together with our Managing Committee, industry associations, government bodies and stakeholders, we will work towards strengthening India's position as a global plastics manufacturing hub while promoting responsible growth, technological advancement, skill development and sustainability."

Mr. Dharmendra Gandhi, elected as Vice President, is Co-founder of the Mutual Group and an industry veteran with over four decades of experience. He has played a pioneering role in introducing advanced polymer processing technologies in India and has actively contributed to several industry bodies, including serving as President of the Organization of Plastic Processors of India (OPPI).

Speaking on his new responsibility, **Mr. Dharmendra Gandhi** said:

"Plastindia Foundation has always been the driving force behind the growth and global recognition of the Indian plastics industry. I look forward to working closely with Dr. Raju Desai and the entire Managing Committee to promote innovation, sustainability, industry collaboration and value creation for all stakeholders."

The Foundation also expressed its sincere appreciation to Mr. Ravish Kamath, the outgoing President, for his dedicated leadership and invaluable contribution during his tenure. Under his guidance, Plastindia Foundation successfully organized PLASTINDIA 2026, further reinforcing India's position on the global plastics map while promoting sustainability, innovation and international collaboration.

The Members of the Managing Committee for the term 2026–2028 are:

Members - Mr. Pradeep Rathod, Mr. Rakesh Shah, Mr. Amit Kumar Agarwal, Mr. Alok Tibrewala, Mr. Alpesh B. Patel, Mr. Ramesh Thummar, Mr. Hemant Minocha, Mr. Vikram Bhadauria, Mr. Jagat Killawala, Prof (Dr.) Shishir Sinha, Dr. Vishal Verma, Mr. Kamal P. Nanavaty, Mr. Sunil Jain

Plastindia Foundation congratulates the newly elected office bearers and Managing Committee members and looks forward to a dynamic new term dedicated to advancing the interests of the Indian plastics industry through innovation, sustainability, global partnerships and inclusive growth.

About Plastindia Foundation

Established in 1987, **Plastindia Foundation** is the apex body of the major associations, organizations and institutions connected with the plastics industry in India. The Foundation is committed to promoting the growth and sustainable development of the plastics sector through industry collaboration, technology adoption, skill development, policy advocacy and international engagement. It is the organizer of the internationally acclaimed **PLASTINDIA Exhibition**, one of the world's leading plastics exhibitions and conferences.



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With his wealth of experience, leadership and commitment to the plastics industry, we are confident that PLASTINDIA 2028 will scale new heights and further strengthen India's position as a global sourcing hub for plastics and allied industries. Under his leadership, we look forward to making PLASTINDIA 2028 a powerful platform that creates greater business opportunities, stronger global connections and enhanced value for exhibitors and visitors, while showcasing India's capabilities to the world.



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For Plastics manufacturers facing pressure to improve quality, reduce waste, lower operating costs and meet sustainability targets, machine vision offers more than automated inspection

The plastics industry is entering a new phase of automation in which machines are no longer limited to performing repetitive tasks. With the integration of Artificial Intelligence (AI), machine learning and machine vision, production systems are increasingly capable of seeing, analysing and responding to variations in real time.

For plastics processors, this evolution is particularly significant. Injection moulding, extrusion, blow moulding, thermoforming, packaging and recycling all demand consistent quality, high productivity and tighter control over raw materials and energy consumption. Machine vision is emerging as a key technology in meeting these requirements.



Unlike conventional inspection systems that depend largely on pre-programmed rules, AI-enabled machine vision can analyse images, identify patterns and detect defects that may be difficult to identify through conventional inspection. This makes it an increasingly valuable tool for manufacturers seeking zero-defect production and reduced dependence on manual inspection.

From Inspection to Intelligent Decision-Making

At its simplest, machine vision uses cameras, lighting and image-processing software to inspect products as they move through a production line. In plastics manufacturing, the technology can detect surface defects, dimensional variations, colour inconsistencies, contamination, incomplete moulding, flash, warpage, cracks and other quality issues.

The real transformation comes when machine vision is combined with AI.

"Machine vision is moving from simply detecting defects to understanding why those defects occur. That shift can significantly improve process control and productivity in plastics manufacturing.", says an industry technology expert.





For an injection moulding operation, for example, an AI-enabled vision system can inspect every component immediately after ejection. It can identify a short shot, sink mark, burn mark or deformation and automatically classify the defect. When connected to the machine-control system, the information can be used to trigger an alert or initiate corrective action.

This creates a closed-loop manufacturing environment in which inspection is no longer the final step of production but becomes part of the production process itself.

Applications Across the Plastics Value Chain

The applications are extensive. In injection moulding, machine vision can inspect components for dimensional accuracy, surface quality, colour and assembly errors. It can also verify the presence and position of inserts, labels and other components.

In extrusion, cameras can continuously monitor profiles, pipes, sheets and films for surface defects, thickness variations and dimensional deviations. AI algorithms can identify trends and alert operators before a quality problem develops into significant production losses.

For plastic packaging, vision systems can inspect bottles, caps, containers and films at high speeds. They can check cap placement, seal quality, print accuracy, labels, closures and foreign particles.

The technology is equally relevant to recycling. AI-powered vision systems can identify different types of plastic, colours and contaminants, helping automated sorting equipment separate material more accurately. This can improve the quality and value of recycled feedstock while reducing dependence on manual sorting.

"For recyclers, the combination of cameras, AI and automated sorting can turn waste identification into a data-driven operation. Better sorting ultimately means better-quality recycled material.", notes a recycling technology specialist.

Reducing Scrap and Improving Productivity

One of the strongest business cases for machine vision

is its potential to reduce scrap.

A conventional manual inspection process can be affected by fatigue, inconsistent judgement and changing operating conditions. An automated vision system, by contrast, can inspect every component according to the same defined parameters.

For high-volume plastics manufacturers, even a small improvement in rejection rates can have a meaningful financial impact.

Consider a production line manufacturing thousands of components every hour. If an AI-enabled vision system identifies a developing defect within minutes, operators can intervene before hundreds or thousands of defective parts are produced.

This has implications beyond quality. Less scrap means lower material consumption, reduced energy use and improved machine utilisation.

Creating a Connected Factory

Machine vision becomes even more powerful when integrated with Industry 4.0 platforms, Manufacturing Execution Systems (MES), Enterprise Resource Planning (ERP) systems and machine-control technologies.⁶

Inspection data can be stored alongside information such as machine settings, temperature, pressure, cycle time, material batch and operator inputs. Over time, AI can analyse these datasets to identify relationships between production parameters and quality outcomes.

This creates the possibility of predictive quality. Instead of asking, "Is this product defective?", manufacturers can increasingly ask, "What production conditions are likely to create a defect?"

That distinction could be critical for the next generation of smart plastics factories.

"The value of AI is not only in identifying a defective part. The bigger opportunity is connecting quality data with process data so manufacturers can prevent defects rather than simply reject them.", says an automation industry professional.

Supporting Predictive Maintenance

Machine vision can also contribute to predictive maintenance.

Cameras can monitor machine components, conveyors, robotic systems, moulds and other equipment for abnormal conditions. Changes in appearance, movement or alignment can provide early indications of mechanical problems.

When combined with sensor data such as vibration, temperature and pressure, vision-based information can help maintenance teams make more informed decisions.

For plastics processors, this can reduce unexpected downtime—one of the most expensive disruptions in continuous manufacturing environments.

Challenges to Adoption

Despite its potential, machine vision is not a plug-and-play solution for every plastics manufacturer.

Initial investment in cameras, lighting, computing infrastructure, software and integration can be significant. Companies also need skilled personnel capable of managing AI systems and interpreting production data.

Another challenge is the availability of quality data. AI systems perform better when trained using large and representative datasets covering different materials, colours, product variations and defect types.

Lighting and camera positioning are equally important. A sophisticated AI model cannot compensate for poor

image acquisition.

For smaller processors, therefore, the most practical approach may be to begin with a clearly defined application where the return on investment can be measured.

The Road Ahead

The future of machine vision in plastics is likely to move beyond inspection towards autonomous process optimisation.

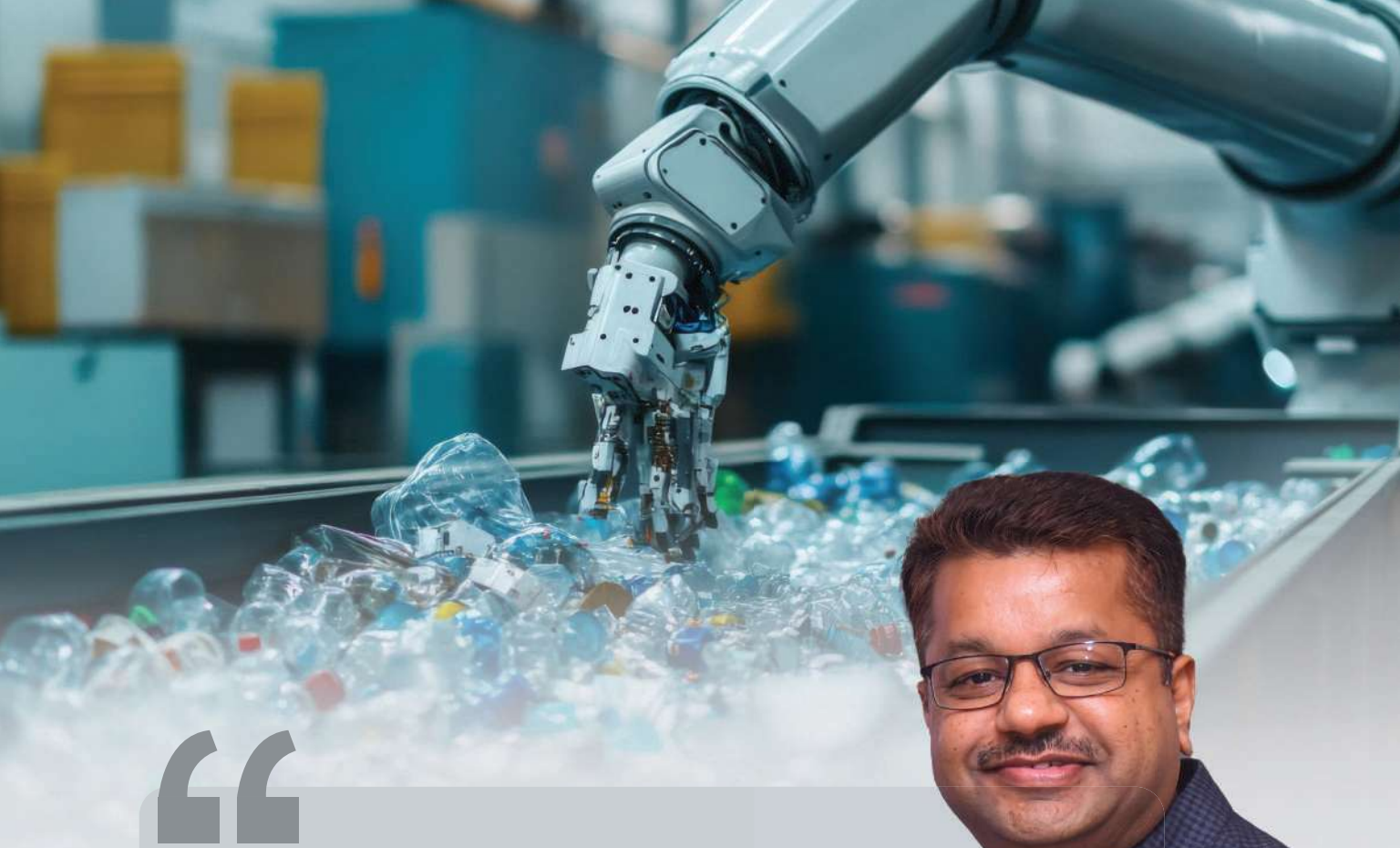
As AI algorithms become more sophisticated and computing becomes more affordable, vision systems could increasingly communicate directly with injection moulding machines, extruders, robots and other automation equipment.

The result will be production lines capable of detecting deviations, analysing their causes and recommending; or automatically implementing corrective action.

For plastics manufacturers facing pressure to improve quality, reduce waste, lower operating costs and meet sustainability targets, machine vision offers more than automated inspection. It represents a move towards a manufacturing environment where every product can be inspected, every defect can become data and every production variation can become an opportunity for improvement.

As one industry observer puts it, “The intelligent factory begins with the ability to see. Machine vision gives plastics manufacturers that visibility—and AI gives them the ability to act on it.”





“

AI and automation are no longer futuristic concepts for the plastics industry; they are becoming practical tools for productivity, quality, resource efficiency and circularity.

Nitin Agarwal

Deputy Operations Head Plastics Business,
Gravita India

LEADERS SPEAK

AI works best as a decision-support system, learning from plant data and identifying patterns, but it must remain supervised. Human judgement remains essential when processes require contextual decisions.

Across plastics manufacturing and recycling, automation supports sorting, washing, extrusion, compounding, moulding, handling and packing. AI can advance sorting by identifying polymers, colours, grades, brands and applications in mixed plastic waste, enabling better segregation and upcycling.

The greatest opportunity lies across production, where AI and automation can improve quality, safety, resource utilisation and operating costs. SCADA, sensors and feedback systems can support predictive maintenance by detecting abnormal operating patterns before failures occur. Automated inspection and rejection can

prevent non-compliant material from moving through the process.

However, adoption faces barriers, including high investment costs, limited technology suppliers, legacy equipment and gaps in technical know-how. Innovation and collaboration between machinery manufacturers, technology providers and processors are needed.

Looking ahead, AI-driven sorting, online testing, predictive maintenance and intelligent process control can accelerate circularity and deliver cleaner production, better-quality recycled materials, lower energy consumption and more competitive manufacturing. The future will belong not to AI alone, but to AI working intelligently with people.



The objective should not be to build an 'AI factory' but to build a smarter, more productive and more reliable plastics industry.

Dr. Shreeram Wadekar,

Director – Technical and Commercial
Alpha Ecoplast Pvt. Ltd.



Artificial intelligence is often described as the next revolution in manufacturing. In plastics, however, its impact is likely to be more evolutionary, building on decades of automation and process engineering. Polymer plants already use distributed control systems and advanced process controls, while converters employ robotics, servo systems, machine vision and closed-loop controls. Recycling plants, too, are increasingly adopting automated sorting and material handling. The key question should not be where AI can be installed, but where intelligence can improve a measurable industrial outcome.

The next opportunity is not to replace this automation with AI, but to make existing systems more intelligent. The real competitive advantage will come from

convergence: automation provides repeatability, AI provides prediction and optimisation, while people contribute polymer expertise, judgement and accountability.

This shift from automation to intelligence is particularly relevant to India. For, India has a distinctive advantage as its complete plastics ecosystem creates an opportunity to develop India-specific AI solutions that are technically robust, commercially viable and scalable across large plants and SMEs.

AI should be viewed not as a replacement for industrial expertise, but as an intelligence layer that strengthens decision-making, improves productivity, optimises resources and creates sustainable competitive advantage.

LEADERS SPEAK



“AI and automation are poised to become important drivers of the next phase of growth in plastics manufacturing and recycling.”

In Plastic waste recycling, their impact is already particularly visible in bottle and flake sorting. AI-based systems can identify and remove non-food-grade bottles and other contaminants with greater consistency than manual sorting. This is significant in a labour-intensive industry where sorting efficiency can vary with operator experience, fatigue and shift timings.

In my view, every stage of plastics manufacturing can benefit from AI and automation, but production offers the greatest opportunity. Automation can improve plant efficiency, process stability and product consistency. This consistency can translate directly into better productivity, quality and cost efficiency.

However, technology should complement rather than replace human capability. Human ingenuity, problem-solving and the ability to generate new ideas will remain critical, particularly for process improvement and innovation.

The principal challenges are investment cost, payback expectations and, importantly, understanding where AI and automation can deliver the greatest value.

The way forward is therefore gradual and inclusive adoption, with management, employees, technology providers and other stakeholders involved in the transition.

The long-term winners will be those that treat AI not simply as technology, but as a strategic enabler of sustainable growth.

Ankit Jain,
Managing Director
Ribotl Solutions Private Limited



The Role of Academia–Industry Collaboration

The engineer of tomorrow cannot be built by textbooks alone

Industry is evolving rapidly. Artificial intelligence, automation, advanced materials, digitalisation, smart manufacturing and sustainability are transforming the way products are designed, manufactured and delivered. In this changing environment, engineering education must go beyond theoretical knowledge and prepare students to apply, analyse, innovate and solve real-world problems.

This is where academia–industry collaboration becomes essential.

Plastindia International University (PIU), Vapi, has been established with a clear vision of connecting academic learning with industrial reality. Promoted by Plastindia Foundation (PIF), PIU brings the knowledge and experience of the plastics and polymer industry into higher education, helping students understand not only engineering concepts but also their practical applications.

From Classroom Learning to Industrial Application Engineering becomes meaningful when theory is applied to real problems.

How can manufacturing efficiency be improved? How can material waste be reduced? How can product

quality be enhanced? How can automation and digital technologies improve production?

At PIU, students are exposed to these questions through laboratory training, industrial visits, internships, technical workshops, expert interactions and project-based learning. This approach enables students to connect engineering fundamentals with practical applications.

The learning process becomes:

Learn → Apply → Analyse → Solve → Innovate

Technical Excellence in Plastics & Polymer Engineering

PIU's B.Tech. in Plastics & Polymer Engineering is designed around the evolving needs of the plastics and polymer sector. Modern polymer engineers must understand materials, processing, product development, quality, automation and sustainability as interconnected areas. Technical exposure to processes such as injection moulding, extrusion, blow moulding and other manufacturing technologies helps students understand how material and process parameters influence product performance. Laboratory-based learning further develops their ability to test materials, analyse results, identify defects, optimise processes and make engineering decisions based on data.



Engineering for Smart and Sustainable Manufacturing

Industry 4.0 is transforming conventional manufacturing through automation, robotics, sensors, artificial intelligence, machine vision, data analytics and predictive technologies.

Future engineers must therefore understand the connection between:

Machines + Materials + Data + Automation + Intelligence

At the same time, sustainability has become a major technical priority. Recycling, circular economy practices, energy efficiency, waste reduction and responsible material selection require engineers who can

combine environmental responsibility with industrial performance.

Innovation begins with identifying problems and developing practical solutions. Through projects and industry interaction, students can learn to follow a structured engineering approach:

Identify → Investigate → Design → Test → Improve

Whether the challenge involves reducing manufacturing defects, improving material performance, increasing productivity or developing sustainable solutions, students learn to approach problems analytically and creatively.



Connecting India with Global Engineering

PIU's industry orientation is strengthened by its academic collaboration with the University of Massachusetts Lowell (UMass Lowell), providing exposure to international perspectives, advanced technologies and global engineering practices.

The ultimate objective of academia-industry collaboration is not simply employability—it is professional capability.

With the strength of Plastindia Foundation, practical learning, technical laboratories, industry exposure, sustainability and global collaboration, PIU is creating an ecosystem where students progressively move from knowledge to application, application to problem-solving, and problem-solving to innovation.

Industry-ready talent is not created after graduation. It is built through industry-connected learning from Day One.





Autodesk Moldflow and similar simulation technologies are becoming an essential part of the modern plastics value chain helping make the transition possible

In plastics manufacturing, the cost of a mistake is rarely limited to a single defective component. A poorly designed mould, incorrect gate location, uneven cooling or unsuitable processing parameters can result in material wastage, extended development cycles, tooling modifications and delayed product launches.

This is where simulation and virtual prototyping are becoming increasingly important. Technologies such as Autodesk Moldflow allow plastics manufacturers, mould designers and product engineers to simulate the injection moulding process digitally before committing to expensive tooling and production trials.

For an industry under constant pressure to reduce development time, improve quality and control costs, simulation is increasingly moving from an engineering support tool to a strategic manufacturing technology.

Testing the Mould Before Making It

Traditionally, mould development involves designing the tool, manufacturing it, conducting trials, identifying problems and then modifying the mould or process.

While this approach remains necessary in many applications, it can be time-consuming and expensive.

Moldflow changes the sequence by allowing engineers to evaluate the proposed design virtually.

The software can simulate factors such as material flow, filling behaviour, packing, cooling, warpage and potential defects. Engineers can assess how a particular polymer is likely to behave under different processing conditions and identify problems before steel is cut.

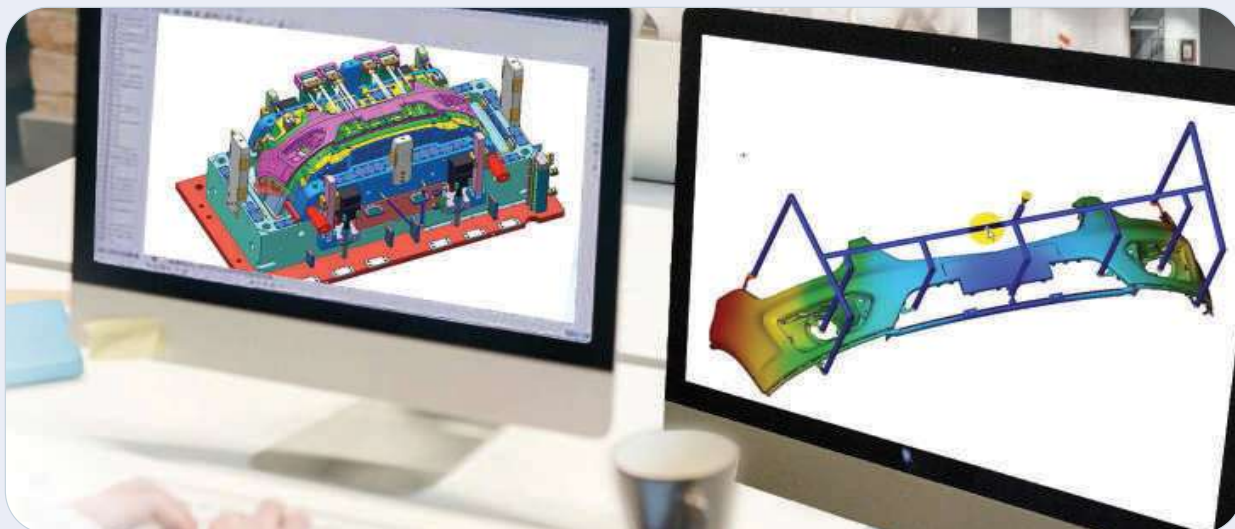
"Simulation allows manufacturers to move a significant part of the trial-and-error process from the factory floor to the engineering environment, where changes are faster and less expensive.", says a plastics engineering professional.

For mould makers and processors, this can translate into fewer physical trials and faster tool approval.

Optimising Product Design

Simulation begins well before mould manufacturing. Product designers can use virtual analysis to understand whether a component is suitable for injection moulding.





Wall thickness, ribs, bosses, corners and other design features influence how molten polymer flows and cools. A design that looks acceptable on a computer screen may create filling problems, sink marks or excessive warpage during production.

By simulating the moulding process at the design stage, engineers can identify potential problems and modify the component before the tooling stage. This creates a more collaborative workflow between product designers, mould makers, material suppliers and injection moulders. Instead of discovering a design problem after tooling, the team can evaluate alternative solutions virtually.

Getting the Gate and Runner Design Right

One of the most important decisions in injection moulding is determining how the molten material enters the cavity.

Gate location influences filling patterns, weld lines, pressure requirements, fibre orientation and final part quality. Similarly, runner design affects material distribution and process efficiency.

Simulation tools enable engineers to compare different gate and runner configurations before manufacturing the mould.

For multi-cavity tools, the ability to analyse filling balance is particularly valuable. An apparently simple mould may experience different filling behaviour across cavities because of variations in runner geometry or pressure distribution.

"A good simulation study can help answer critical questions before tooling investment: where should the gate be located, how will the cavity fill, where will weld lines occur and what processing window is achievable?", says a mould design specialist.

Cooling: The Hidden Driver of Cycle Time

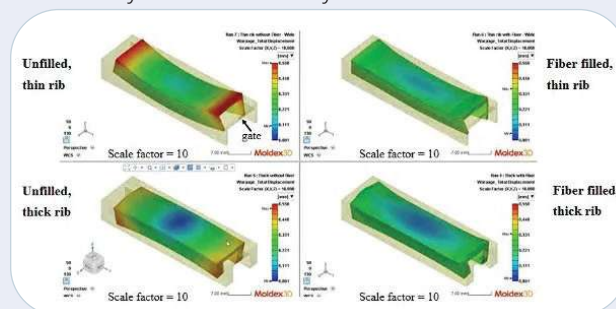
Cooling is one of the most important stages of injection moulding and can have a major impact on productivity.

Uneven cooling can lead to differential shrinkage and warpage. At the same time, inadequate cooling can increase cycle time and limit machine productivity.

Simulation can help engineers evaluate cooling-channel layouts and understand temperature distribution throughout the mould and component.

For high-volume applications such as automotive components, consumer products, electrical housings and packaging, even a modest reduction in cycle time can produce substantial annual savings.

The objective is therefore not simply to produce a component that meets specifications, but to produce it consistently and economically.



Predicting Warpage and Defects

Warpage is one of the most common challenges in injection moulding, particularly for large or thin-walled components.

Simulation can provide an indication of how a part may deform as it cools. Engineers can then investigate alternatives such as modifying wall thickness, changing material, adjusting processing parameters, repositioning gates or redesigning cooling channels.

Similarly, simulation can help identify potential areas for air traps, weld lines, sink marks, hesitation and short shots.

The benefit is particularly important for engineering plastics and fibre-reinforced materials, where material behaviour can be more complex.

Supporting Material Selection

The choice of polymer can have a major influence on moulding performance and final product characteristics.

Simulation enables engineers to compare materials and processing conditions during the development stage. This can be particularly valuable when manufacturers are considering recycled polymers, filled grades, bio-based materials or alternative resin formulations.

For processors increasingly under pressure to incorporate recycled content, virtual analysis can help evaluate how material changes may affect filling, shrinkage and warpage.

"As plastics manufacturers introduce more recycled and specialised materials, simulation becomes increasingly useful because material behaviour can change from one grade or batch to another," observes an industry consultant.

Digital Prototyping and Faster Product Development

The combination of simulation with digital prototyping is changing product development economics. Instead of manufacturing multiple physical prototypes, companies can evaluate several design scenarios digitally and narrow down the options before producing the final mould.

This is particularly useful for industries with short product cycles, including consumer electronics, automotive components, appliances, medical products and packaging. Faster development can also give manufacturers a competitive advantage. If a company can reduce tooling modifications and shorten the path from concept to mass production, it can respond more quickly to customer requirements.

The Business Case for Simulation

For B2B plastics manufacturers, the value of Moldflow and similar simulation platforms should ultimately be measured through business outcomes.

These can include:

- Reduced mould modification costs
- Fewer physical mould trials

- Lower material wastage
- Shorter product-development cycles
- Improved part quality
- Reduced cycle times
- Better cooling performance
- Faster identification of design problems
- Improved production consistency

The technology can therefore influence not only engineering but also capital expenditure, productivity, quality and time-to-market.

However, successful implementation requires skilled engineers and accurate input data. Simulation is not a replacement for manufacturing knowledge. Rather, it gives engineers a stronger basis for making decisions.

From Virtual Trial to Smart Manufacturing

The next stage will be the integration of simulation with AI, machine learning and real-time production data. Historical simulation results could increasingly be compared with actual machine performance, allowing manufacturers to refine their models and improve process predictions.

This could create a feedback loop: design ► simulation ► tooling ► production ► data ► optimisation.

For the plastics industry, that represents an important step towards truly digital manufacturing.

As one industry expert puts it, "The future of mould development will not be about eliminating physical trials altogether. It will be about ensuring that every physical trial is informed by better digital engineering."

Autodesk Moldflow and similar simulation technologies are helping make that transition possible. By allowing manufacturers to test designs, materials, moulds and processing conditions virtually, simulation is becoming an essential part of the modern plastics value chain.

In an industry where tooling costs are high, product cycles are getting shorter and quality expectations continue to rise, the ability to predict a problem before it reaches the production floor could become one of the most valuable competitive advantages a plastics manufacturer can have.



Digital twins could become the foundation of that ecosystem, linking the virtual factory with the physical factory and helping plastics manufacturers make better decisions before, during and after production

The Plastics industry is moving steadily towards a manufacturing environment where machines, products and processes are increasingly connected. Artificial Intelligence, Industrial Internet of Things (IIoT), automation and advanced analytics are changing how manufacturers design, produce, monitor and optimise plastic products.

At the centre of this transformation is the digital twin; a virtual representation of a physical machine, mould, production line or entire manufacturing process that continuously uses real-world data to understand and improve performance.

For plastics processors, digital twins offer the possibility of moving from reactive manufacturing to predictive and data-driven production.

From Physical Factory to Virtual Factory

A digital twin is more than a conventional 3D model. It combines engineering information with operational data collected from sensors, machines and production systems.

In a plastics factory, a digital twin could represent an injection moulding machine, extrusion line, mould, cooling system, robotic cell or complete production line. Data such as temperature, pressure, cycle time, energy consumption, vibration and production output can be fed into the virtual model.

Engineers can then monitor the physical process through its digital counterpart and identify deviations or opportunities for improvement.

“A digital twin gives manufacturers a virtual window into the factory. Instead of looking only at what has happened, they can begin to understand what is happening now and what could happen next,” says an industry automation specialist.

This predictive capability can be particularly valuable for plastics manufacturing, where small changes in processing conditions can significantly affect quality and productivity.

Optimising Injection Moulding

Injection moulding is one of the areas where digital twins can have significant applications.

A digital twin can bring together information from the injection moulding machine, mould, material and auxiliary equipment. Engineers can monitor parameters such as melt temperature, injection pressure, holding pressure, cooling time and cycle time. If production data begins to deviate from established conditions, the system can generate an alert.

For example, a gradual increase in cycle time could indicate a cooling problem, machine issue or material variation. Instead of waiting until production efficiency deteriorates significantly, maintenance or production teams can investigate the problem earlier.



Combined with AI, the digital twin can also identify patterns that may not be immediately visible to operators.

Predictive Maintenance

Unplanned downtime is a major concern for plastics processors. Injection moulding machines, extruders, compressors, chillers, robots and material-handling systems all require regular maintenance. Traditionally, maintenance is either scheduled according to a fixed timetable or carried out after a failure.

Digital twins support a third approach: Predictive maintenance.

By analysing machine data, the system can identify unusual changes in temperature, vibration, pressure or energy consumption. These changes can indicate developing equipment problems.

"Predictive maintenance changes the question from 'When did the machine fail?' to 'What signals are telling us that a failure may be approaching?'", notes an industrial automation expert.

For manufacturers operating multiple production lines, this can improve maintenance planning and reduce unexpected stoppages.

Energy Management

Energy efficiency is becoming increasingly important for the plastics industry, both because of operating costs and sustainability commitments. Digital twins can track energy consumption across machines and auxiliary equipment and compare energy use against production output.

For example, manufacturers can analyse the energy required to produce a kilogram of material or a specific number of components. Abnormal consumption can then be investigated.

In extrusion, the technology can help identify relationships between throughput, temperature profiles, screw speed and energy consumption. In injection moulding, it can provide insight into machine utilisation, heating, cooling and cycle-time efficiency.

The objective is to move from simply monitoring electricity consumption to understanding why energy is being consumed and where efficiency improvements are possible.

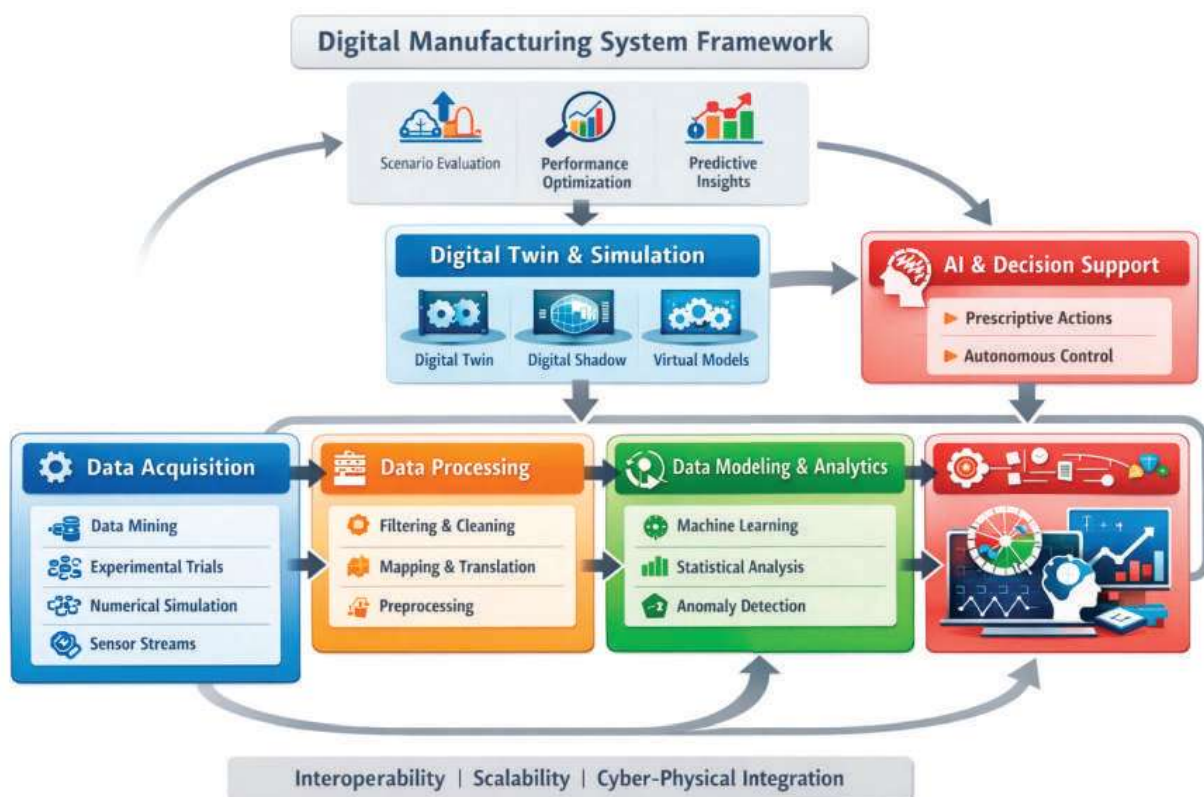
Quality Control and Traceability

Digital twins can also strengthen quality management. Production parameters can be associated with individual batches, components or production runs. If a quality issue is identified later, manufacturers can trace the relevant production conditions.

This is especially important for industries such as automotive, electrical and electronics, medical devices and food packaging, where traceability requirements are becoming more stringent.

When combined with machine vision, the possibilities become even greater.

A vision system can identify a surface defect while the digital twin records the machine and process conditions at the time the component was produced. AI can then search historical production data to determine whether similar defects occurred under comparable conditions.



This creates a powerful link between inspection and process optimisation.

Connecting Simulation with Production

The real potential of digital twins emerges when they are connected with simulation technologies such as Autodesk Moldflow. Simulation can predict how a mould and material are expected to behave before production begins. Once the mould enters production, actual process data can be compared with the simulated results. This creates a continuous learning cycle.

Engineers can identify where actual production differs from the original simulation and use those insights to improve future designs. "The combination of simulation and production data is particularly powerful. Simulation tells us what should happen; the digital twin helps us understand what is actually happening on the shop floor," says a plastics technology professional.

Smarter Factories, Better Decisions

For management, the value of digital twins extends beyond individual machines.

A connected digital environment can provide a broader view of plant performance. Managers can monitor production output, machine utilisation, quality, energy consumption, maintenance status and material efficiency through a common data platform. This can support faster decision-making. Instead of relying exclusively on periodic reports, production managers can identify bottlenecks and underperforming assets in near real time.

For multi-plant manufacturers, digital twins could eventually allow performance comparisons across factories, helping companies identify best practices and replicate successful processes.

Challenges to Adoption

Despite the potential, implementing digital twins requires careful planning. The first challenge is data quality. Machines from different generations and manufacturers may use different communication protocols and generate data in different formats.

Cybersecurity is another consideration as more

industrial equipment becomes connected. Companies also need people with a combination of plastics-processing knowledge, automation expertise and data-analysis skills.

For smaller manufacturers, starting with a digital twin of an entire factory may not be practical. A more effective approach could be to begin with one machine, production line or specific process where measurable benefits can be demonstrated.

Towards Autonomous Manufacturing

The long-term objective is not simply to create virtual replicas of factories. It is to use those replicas to make manufacturing increasingly autonomous.

The combination of AI, machine vision, simulation, robotics, sensors and digital twins could enable future plastics plants to identify process deviations, predict failures, optimise production parameters and recommend corrective action with minimal human intervention.

Human expertise will remain essential, but its role could shift from constantly monitoring machines to managing increasingly intelligent production systems.

As one industry observer puts it, "The smart plastics factory will not be defined by how many machines it has, but by how intelligently those machines communicate, learn and respond."

For plastics manufacturers facing rising costs, shorter product-development cycles, tighter quality requirements and increasing sustainability expectations, digital twins offer a path towards greater visibility and control.

The journey towards Industry 4.0 is therefore moving beyond automation alone. The next competitive advantage will come from connecting machines, people, data and engineering knowledge into one intelligent manufacturing ecosystem.





Sascha Graef,

Managing Director – MPDV Asia Pte Ltd ,
Director Asia – The MPDV Group

India's plastics manufacturing industry has become one of the country's key industrial growth engines. Whether producing precision automotive components, medical devices, consumer goods, aerospace parts, white goods, furniture or technical packaging, manufacturers are under continuous pressure to increase productivity, improve quality, reduce costs, improve documentation for regulatory compliance and respond faster to changing customer requirements. Traditional approaches to production information management are no longer sufficient to meet these expectations sustainably.

This is where modern Manufacturing Execution Systems (MES), Manufacturing Operations Management (MOM) and Advanced Planning & Scheduling (APS) solutions play a decisive role. Rather than being standalone software applications, they form an integrated digital backbone that connects production planning, shop floor execution, quality management, maintenance, logistics and performance analysis into one coherent manufacturing ecosystem across the entire manufacturing enterprise.

One of the key success factors is not the implementation of every available function from the outset, but the ability to selectively deploy those capabilities that deliver the highest business value ("low hanging fruits")

in a prioritized roadmap approach. Modern MES/MOM and APS platforms are highly modular and configurable, enabling manufacturers to start with clearly defined objectives - such as improving Overall Equipment Effectiveness (OEE), reducing scrap and rework, increasing machine utilization, achieving complete production traceability, or optimizing production scheduling and finite capacity planning. Different plastics manufacturers all individually have their own prioritized pain points to be eliminated or improvement ambitions to be achieved in the beginning. Thus, the solution scope and scale must be expandable step by step as their digital transformation matures. This scalable approach significantly reduces implementation risks while fast delivering measurable business benefits early in the journey.

For plastics manufacturers, this flexibility is particularly valuable. Injection molding, blow molding and extrusion processes each present unique operational challenges, while customer requirements differ considerably between the various industries such as automotive, medical technology, consumer products or furniture manufacturing. Digital manufacturing platforms therefore need to adapt to individual production environments instead of forcing standardized processes upon them.



Artificial Intelligence (AI) is now adding an entirely new dimension to these manufacturing systems. While conventional MES/MOM solutions primarily collect, structure and visualize production data, AI enables manufacturers to transform this growing data foundation into actionable intelligence. Machine learning algorithms can identify hidden process patterns, predict quality deviations before defects occur, recommend optimized production parameters, forecast maintenance requirements, improve production scheduling and support operators with intelligent recommendations for faster decision-making. To name a few such use cases:

- AI-based production capacity planning
- AI-based predictive quality outcomes of long-running processes
- AI-based OEE / machine status / cycle time / scrap / energy analysis
- AI-based setup or changeover time prediction
- AI-based forecast of raw material availability
- AI-based "chatting with your data"

Equally important, AI should not be viewed as a replacement for human expertise. Instead, it acts as an intelligent assistant that helps engineers, planners, supervisors and operators make faster, more informed decisions based on large volumes of production data that would be impossible to analyse manually. The combination of human experience with AI-driven recommendations creates a powerful synergy that

continuously improves operational performance. The human expert remains the central governor! Today, AI is gradually introduced into the MES/MOM/APS solutions. Plastics manufacturers can selectively start focusing on identified high-value use cases while building confidence and expertise throughout the organization.

Looking ahead, the convergence of MES, MOM, APS, Industrial IoT and Artificial Intelligence will continue to reshape manufacturing in the foreseeable future. Companies that establish a robust digital foundation today will be well positioned to adopt future AI innovations quickly and efficiently. For India's plastics industry, digital manufacturing is no longer simply about automation - it is about creating a human-centric, agile, data-driven and continuously improving production environment that strengthens global competitiveness, enhance customer satisfaction and support sustainable long-term growth.

The future of plastics manufacturing will not be defined by AI alone, but by the intelligent combination of digital manufacturing systems, advanced planning capabilities and artificial intelligence working together, under human expert governance, to enable smarter decisions across the entire production value chain. The effectiveness of AI depends fundamentally on the quality, completeness and real-time availability of manufacturing data. Thus, a robust MES/MOM foundation therefore remains the prerequisite for successful industrial AI on the path forward.



Walk into any recycling facility and you'll see the same thing: mountains of plastic, all mixed together, PET bottles with the food grade and no-food grade mixed up, HDPE containers tangled up with PP lids, detergent bottles sitting right next to ones that once held mineral water. To the human eye, it's all just "plastic waste." To a recycling plant, that mix is the single biggest problem it has to solve.

Why Sorting Needs Automation

Sorting is the messiest, most chaotic part of the entire recycling chain and also the most important. Get it wrong, and everything downstream suffers: damaged machines, contaminated batches, and recycled material nobody wants to buy.

Manual sorting depends on tired eyes and tired hands working a moving belt, trying to catch every misplaced piece of plastic in real time. It simply can't keep pace with the volume or precision modern recycling demands. Automation delivers scale and accuracy, together.

The logic that follows is simple. Better sorting means cleaner, better-separated material, higher-grade recyclate that goes into new bottles instead of being downgraded into lower-value products. And better output means better profitability: recyclers who deliver purer material command better pricing, face fewer batch rejections, and win more consistent contracts with buyers who have strict quality requirements. Sorting, in other words, isn't just a technical step. It's the difference

between recycling being a cost center or a genuinely profitable business.

How AI Enhances Sorting

Modern AI-powered sorting systems don't just glance at a material and guess its polymer type, the way older infrared-based sorters do. Trained on huge volumes of real packaging images, they recognize shape, size, color, packaging attributes, brands and even a bottle's likely end use i.e. food-grade or non-food-grade, often even when it's been crushed or deformed.

Consider a simple example: a stream of PET bottles arrives at a facility, and somewhere in it is a flattened bottle that once held pesticides, not water. A basic sorter looking only for the PET polymer signature would let it through. An AI vision system, trained to read visual and structural cues beyond polymer type alone, flags that bottle and pulls it before it can contaminate an entire food-grade batch.

Ishitva's suite of solutions, SUKA®, SANJIVANI®, Flake Sorter, Flake Analyzer, Bale Analyser and PET1 brings that accuracy, traceability, and scalability to every stage of the recycling chain, right down to PPM-level impurity detection. The goal isn't just cleaner plastic. It's turning recycling from a guessing game into a data-driven, genuinely profitable circular process.

For a closer look at the specific challenges in food-grade PET recycling, see Ishitva's guide on the topic.



Sandip Singh
Co-Founder & CEO,
Ishitva





Plastindia Foundation, the apex body of the Indian plastics industry, has inaugurated its Regional Office in New Delhi, marking a significant step towards strengthening collaboration among industry, government and academic institutions. The office will serve as a key centre for policy advocacy, innovation, skill development and sustainable growth initiatives for the Indian plastics industry.

Established under the leadership of Plastindia Foundation President Mr Ravish Kamath, the Delhi office will function as a dedicated platform for policy advocacy, industry representation, stakeholder engagement and strategic collaboration with the Government, academic institutions, industry associations and allied organisations. It will play a vital role in promoting innovation, skill development, MSME support, industry-academia collaboration and capacity building across the plastics value chain.

The office was formally inaugurated in New Delhi with a traditional puja ceremony. The inauguration was led by Dr. Raju Desai, Vice President, and Mr Dharmendra Gandhi, Honorary Treasurer of Plastindia Foundation, marking the beginning of a new chapter in the Foundation's outreach and policy initiatives.

Although located in the national capital, the Regional Office has been conceived as a pan-India initiative. It will serve the interests of the entire Indian plastics ecosystem by strengthening policy outreach, fostering regional and national collaboration, and contributing to the development of practical solutions to environmental and sustainability challenges, particularly those relevant to the Delhi-NCR region. The initiative is expected to enhance the competitiveness of the Indian plastics industry while contributing to the vision of Viksit Bharat 2047.

Plastindia Foundation is the apex body representing the Indian plastics industry through its seven Founder Associations and two Constituent Associations. It is the only industry body in India that brings together the entire plastics value chain, including processors, raw material manufacturers, machinery manufacturers and manufacturers of finished plastic products. The Foundation is committed to promoting the industry's growth, technological advancement and global competitiveness.

Apart from organising the globally acclaimed PLASTINDIA Exhibition, the Foundation works closely with the Government of India, industry, academia and other stakeholders to promote policy advocacy, environmental responsibility, circular economy initiatives, plastics recycling, sustainability and the adoption of advanced technologies. Its objective is to make the plastics industry more responsible, environmentally sustainable and future-ready.

The Foundation is equally committed to developing a skilled workforce for the industry. Through the Plastindia International University (PIU) initiative, it aims to bridge the industry's skill gap by developing industry-ready professionals equipped to meet the evolving requirements of the plastics sector.

The Foundation's strong industry-government partnership is further reinforced by the presence of the Central Institute of Petrochemicals Engineering & Technology (CIPET) and the Plastics Export Promotion Council (PLEXCONCIL) as its Founder Members. Their association strengthens the Foundation's efforts in education, research, technology development, export promotion, innovation and policy support for the Indian plastics industry.



THE PERFECT BLACK & WHITE MASTERBATCH SOLUTIONS



White Masterbatch Applications:

Mulch Films
Edible Items Packaging
FMCG Containers
Cosmetics Containers
Security Films
Shade Nets
Hygiene Product Packaging

Black Masterbatch Applications:

Meat Packaging (US FDA Compliant)
HDPE Pipes and Fittings
Irrigation Pipes
Geomembranes
Mulch Films
Monofilaments & Multifilaments
Garbage Bags

Compliant with Global Regulations

- European AP (89)Part 1 Norms
- BIS 9833 Standards
- US FDA 21CFR Regulations
- Heavy Metal Free & RoHS Guidelines
- California Prop 65 Regulations
- REACH Regulations
- EN 71 Norms for Toys

An ISO 9001:2015 Certified

Welset Plast Extrusions Pvt Ltd

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A Proud Milestone for PLASTINDIA 2026 (12th June 2026)

Plastindia Foundation has been honoured with the Industry Promotion Excellence Award at EEA 2026 — recognition that celebrates the Foundation's commitment to driving industry growth, fostering global connections, and creating opportunities that extend far beyond the exhibition floor.

The Foundation extends its sincere thanks to its exhibitors, partners, industry leaders and the entire plastics community for being part of this journey.



Plastindia Foundation Stall Inaugurated at Hiplex, Hyderabad (7-10 August 2026)



Dr. Raju Desai, President, Plastindia Foundation, and Dr. Sameer Joshi, Honorary Treasurer, Plastindia Foundation, inaugurated the PIF stall at Hiplex, Hyderabad, in the presence of esteemed industry leaders.

The inauguration highlighted the Foundation's continued efforts to build stronger industry connections in southern India, enabling meaningful conversations and creating avenues for collaboration across the plastics value chain.

With a focus on progress and collective growth, Plastindia Foundation continues to support initiatives that empower the plastics industry and shape its future trajectory.



HIPLEX 2026 Inaugurated: Telangana's Plastics Industry Takes Centre Stage

The inauguration of HIPLEX 2026 was graced by Dr. Raju Desai, President, Plastindia Foundation, as Guest of Honour, together with Shri D. Sridhar Babu, Hon'ble Minister for IT, Electronics & Communications, Industries & Commerce, and Legislative Affairs, Government of Telangana, who formally inaugurated the exhibition as Chief Guest at the Hitex Exhibition Centre, Hyderabad, in the presence of other distinguished dignitaries of the industry.

"This State has roughly 6,000 plastics units, nine in ten of them MSMEs, and over a lakh people in organised-sector employment."
— Dr. Raju Desai, President, Plastindia Foundation

In his address, Dr. Raju Desai highlighted Telangana's growing role in India's plastics landscape, driven by a strong manufacturing base, robust industry infrastructure and a sharp focus on innovation.

HIPLEX 2026 brings together this thriving ecosystem, creating fresh opportunities for collaboration and growth across the plastics industry.





Italian recycling technology company CMG Granulators has launched an Indian subsidiary in Pune as part of its strategy to strengthen its presence in the country's growing plastics recycling market. The company is also planning local manufacturing of its granulation equipment in India.

The announcement was made during the Plastics Recycling Show India (PRS India) 2026, held in Mumbai. CMG showcased its granulation technologies at the exhibition and interacted with Indian recyclers, processors and other industry stakeholders.

The new subsidiary will manufacture equipment engineered to CMG's original design, while maintaining the same technological, quality and performance

standards for which the company is internationally recognised in the field of plastics size reduction. Local production will make it possible to: shorten delivery times; enhance competitiveness; provide faster, more direct technical support; develop solutions increasingly tailored to the specific requirements of the Indian market. CMG specialises in granulation systems for plastics recycling and processing. Its equipment is designed to produce consistent regrind quality while supporting efficient material processing.

India is also emerging as an important market for international recycling technology suppliers, with several global companies increasing their local presence and exploring manufacturing opportunities.





Indorama Ventures has teamed up with Suntory Holdings, Suntory PepsiCo Beverage (Thailand) and Iwatani to develop commercial-scale circular polyethylene terephthalate (PET) packaging in Thailand through its packaging unit, Indovida. The project will bring flake-to-preform (FtoP) direct recycling technology to Thailand via Indovida (Thailand), a joint venture set up by Indorama Ventures and Iwatani. The patented FtoP process was developed by Suntory and three partner companies, including Japanese recycling company Kyoei Industry. It allows PET preforms to be made directly from recycled PET bottles. The companies said the process increases recycling efficiency and lowers environmental impact.

Indorama Ventures Group CEO Alope Lohia said: "This collaboration reflects Indorama Ventures' commitment to reimagining chemistry for a more circular future by advancing circular PET packaging in Thailand and beyond. "By combining our integrated PET value chain with world-class recycling technology and strong industry partners, we are expanding our ability to deliver differentiated circular packaging solutions while reinforcing our downstream packaging platform. According to Indorama Ventures, this is the first commercial use of the technology in Southeast Asia." The venture is expected to produce recycled PET preforms equal to around 400 million PET bottles a year.

From 2028, the preforms will be supplied to Suntory PepsiCo Beverage Thailand.

Indorama Ventures stated that the arrangement adds to its packaging activities by linking its PET, recycled PET and packaging manufacturing operations with technology and external partnerships. Under the partnership, Indorama Ventures will provide recycled PET, integrated materials and packaging manufacturing expertise. Suntory will contribute the FtoP technology and operational knowledge developed in Japan while Iwatani will provide industrial expertise and its existing relationship with Suntory.





Milacron, a global leader in plastics processing technologies, has inaugurated its first Global Capability Center (GCC) in Coimbatore, India. Built to house a growing team of more than 60 engineers, the center marks a significant step in Milacron's continued investment in engineering capability, customer responsiveness, and long-term global growth. "Coimbatore has given us access to a remarkable pool of engineering talent that will help shape what we build next working closely with our engineering and new product development teams at headquarters to bring new innovations to life faster and with greater depth. I'm proud of every associate here; this is only the beginning of what we'll achieve together," said Suraj Thodimarath, Managing Director, Milacron India.

At its core, the GCC expands Milacron's engineering capacity. Its team of more than 60 specialized engineers

works in close collaboration with the company's engineering and new product development (NPD) function at headquarters, accelerating innovation and solution development for the plastics processing industry.

With a dedicated sales and service team now operating from the new Coimbatore facility, Milacron is enhancing its localized, on-the-ground support for customers across South India. This on-site presence enables faster regional response, deeper access to specialized engineering expertise, and a stronger pipeline for product innovation. By pairing expanded engineering capacity with an enhanced local service presence, Milacron is positioning itself to respond more quickly to evolving customer needs while continuing to invest in the next generation of plastics processing technology.

COMPANY NEWS



MILACRON®

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UFlex has started operations at its first woven polypropylene (WPP) bag manufacturing site outside India, with a new facility in Mexico.

The company invested \$52m in the plant, which covers ten acres in Altamira.

The site forms part of its wider international expansion and adds to its manufacturing footprint in the Americas. According to the company, the plant was built to international standards for engineering, efficiency and sustainability. It uses European equipment and runs through low-noise and emission-free processes aligned with the company's environmental, sustainability and governance (ESG) framework. The facility includes a recycling unit and a zero solid waste discharge system aimed at improving material recovery, reducing waste and supporting disposal processes. UFlex said the plant can produce 80 million WPP bags a year, supplying demand for industrial packaging products across the Americas. "The new

facility will enable us to deliver innovative, high-quality packaging solutions closer to our customers, ensure shorter turnaround times, and support the evolving sustainability and performance needs of the region's fast-growing pet food industry." UFlex flexible packaging and new product development president Jeevaraj Gopal Pillai said.

He added "The commissioning of our WPP packaging plant in Mexico represents a strategic step in expanding our global manufacturing network and strengthening our presence in the Americas." The bags made at the site are designed for higher strength and use laser venting technology intended to let air out while blocking mites from entering. They also use hot-air sealing technology that can be adjusted for different bag sizes and specifications. The plant also contains a converting unit that uses water-based inks and can run at speeds of up to 300 metres per minute.



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Egypt is moving ahead with plans to apply an extended producer responsibility (EPR) system to selected packaging materials, according to reports.

The move is said to be part of a broader policy aimed at reducing landfill disposal, expanding recycling and advancing a circular economy. Egypt's Local Development and Environment Minister Manal Awad discussed the preparations with Yasser Abdallah, chief executive of the Waste Management Regulatory Authority. The ministry said the digital platform for the EPR scheme has been completed and is ready for launch through the country's Waste Information Management System (WIMS).

Under the system, producers and importers will be able to register and report the volumes of packaging materials they place on the domestic market.

Awad called for easier registration procedures to support participation by companies subject to the scheme.

During the meeting, officials determined which packaging materials will be prioritised in the initial stage, following consultations with private-

sector participants and other stakeholders.

The publication added that assessments of the relevant value chains indicated that the scheme could cut the share of waste directed to landfill, reinforce circular economy practices and generate employment in recycling.

The discussion also covered the shift from legislation to practical implementation after a prime ministerial decision set out the products included in the system, the obligations on producers, the fees to be applied and the duties of the involved authorities.

According to the report, officials also reviewed the national WIMS, which handles electronic licensing, approvals and permits for activities related to waste and hazardous material.

The system includes licences and approvals for the collection, transport, treatment and secure final disposal of hazardous and non-hazardous waste.

It also includes permits for waste exports and imports of non-hazardous waste used as industrial inputs.





The EU prohibited the sale of food packaging containing Bisphenol A (BPA) from July 2026, extending existing restrictions on the substance beyond baby bottles and thermal paper receipts according to reports from German public broadcaster Deutsche Welle (DW). Bisphenol A is a synthetic chemical used in the production of polycarbonate, a rigid, clear plastic, and in epoxy resins.

These resins are commonly used as inner coatings in food and drink cans to prevent metal from corroding and passing into the contents. According to the European Food Safety Authority (EFSA), small quantities of chemicals such as BPA can migrate from containers into food and drinks. The authority said that BPA is considered a potential health concern for all age groups. The EFSA also reported that the chemical may affect parts of the immune system, with possible

links to asthma and autoimmune conditions. Evidence also points to a possible higher risk of cardiovascular disease, diabetes and obesity. A central concern is its effect on the body's hormonal system. BPA may reduce male and female fertility and may influence the timing or progression of puberty. It has also been associated with some forms of cancer.

Within the EU, the EFSA has reduced the tolerable daily intake for BPA from 4 micrograms to 0.2 nanograms per kilogram of body weight, a threshold regarded as safe over a lifetime, DW added. A transition period lasting until 2028 will apply in cases where alternatives are not yet suitable, including cans for acidic foods that use BPA-based internal coatings. These coatings are used to stop acid from damaging the metal and leaking into the food.



Mondi, a global leader in sustainable packaging and paper, has launched re/loop FlowWrap for wet wipes packaging, helping customers in the home and personal care industry transition to more sustainable polymer-based packaging.

Re/loop FlowWrap is a form-fill-and-seal solution (FFS) made from mono-polypropylene (PP) that replaces non-recyclable laminates for applications requiring a customisable barrier, such as baby care, cosmetics, and household wipes. It is compatible with polypropylene (PP) mechanical recycling according to the CEFLEX D4ACE guidelines and contains 35% post-consumer recycled (PCR) content.

With this launch, we show that wet wipes packaging can move towards circularity without sacrificing performance. By combining a material designed for recycling with PCR content and excellent machinability, we help customers transition faster towards sustainable packaging solutions while maintaining operational efficiency.”, said Alessandro D’Agostino, Business Development Manager Home and Personal Care, Mondi Consumer Flexibles

Extensive internal testing and customer trials demonstrated performance comparable to virgin-based alternatives, including reliable sealing, barrier protection and smooth machinability for wet wipes applications. The solution is compatible with existing packaging lines, enabling a straightforward switch to re/loop FlowWrap.

From 1 January 2030, the EU Packaging and Packaging Waste Regulation (PPWR) sets a target of 35% recycled content from post-consumer plastic waste for this category of plastic packaging.

With 35% recycled content, Mondi’s innovative solution is well-positioned to support future compliance with this target and help brands and converters meet sustainability requirements while maintaining product protection and line efficiency.



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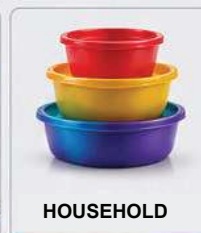
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Cosmo Films has introduced a transparent biodegradable film for fresh food packaging uses, targeting both material performance and environmental considerations. The product is a co-extruded biaxially oriented polypropylene (BOPP) film with heat-sealable and treated layers on each side. It has oxo-biodegradable characteristics and is intended to break down in two to 2.5 years when exposed to suitable conditions. The material is aimed at packaging formats that need clarity, sealing capability and fog control. One side of the film is made to provide antifog performance in both chilled and warm conditions, helping to reduce moisture-related misting and preserve visibility inside the pack. The reverse side is designed for printing, with ink adhesion properties intended to support pack graphics. The film also offers machinability, optical performance, heat-seal strength, hot-tack strength and a low seal initiation temperature. These characteristics are intended to support packaging line efficiency and seal reliability in fresh produce and other temperature-sensitive uses. The film is intended for fresh-cut vegetables, salads and meat.

The material may also be used in flower wrapping because of its clarity and processing features. Cosmo Films global business head Kulbhushan Malik said: "Fresh food packaging requires films to perform

across multiple parameters, from optical clarity and antifogging to seal integrity and machinability. "With the transparent antifog biodegradable film, we have focused on engineering these functional properties into a single BOPP film while incorporating oxo-biodegradable characteristics. The development reflects our continued focus on application-led innovation and creating specialised film solutions aligned with evolving packaging requirements."





Pilot manufacturing site in Vancouver, Canada, has started producing “wood foam”, a material developed at the University of British Columbia (UBC) and brought into production via a partnership with the Wet’suwet’en First Nation.

The site turns wood fibre into lightweight blocks for packaging and insulation uses.

The work involves Feng Jiang of UBC’s faculty of forestry and environmental stewardship and DicinFoam, a majority-owned subsidiary of YLP, the Wet’suwet’en First Nation’s business arm. The process uses wood waste from logging activity and forest fires, material that might otherwise be burned or thrown away. It is being used to make biodegradable packaging and insulation products.

The intellectual property behind the technology is jointly owned by UBC and YLP.

At the plant, softwood species including spruce, pine and fir are processed with heat, mechanical methods and limited chemical additives to produce the foam.

In packaging, the material is intended to decompose in soil within months.

The site is also making insulation panels treated to meet building performance standards. This segment of the market currently depends largely on imported wood-based products.

Jiang’s lab is still involved in the next stage of development, including testing different feedstock mixes and widening possible uses. A key role in the move from research to production is being played by DicinFoam chief technology officer Yeling Zhu. The Vancouver operation is producing 150kg to 200kg of wood foam a day.





India's plastic recycling market could grow at around 9–11% annually over the next five to ten years supported by rising demand for recycled plastics according to Shailendra Singh, Director General, Association of Plastic Recyclers. He stated this at the recently held 'The Plastics Recycling Show India (PRS India) 2026'.

PRS India 2026, held from August 31 to September 2 at the Bombay Exhibition Centre, Mumbai, brought the Indian plastics recycling ecosystem into sharp focus, with technology, material quality, traceability and circularity emerging as key industry priorities.

The third edition, organised by Media Fusion and Crain Communications, was co-located with the Bharat Recycling Show 2026, creating a broader platform covering plastics, metals, e-waste, batteries, end-of-life vehicles and tyre recycling. More than 150 exhibitors and 250 brands participated, with over 10,000 industry stakeholders, policymakers and investors expected to attend.

A major message from the three-day exhibition and conference was that India's recycling industry is moving beyond capacity expansion towards higher-quality recycled materials and technology-led processing. Advanced sorting systems, sensor-based separation, recycling machinery, compounding technologies and

solutions for improving feedstock quality were among the key areas of interest.

Industry discussions also highlighted the growing importance of Extended Producer Responsibility (EPR), recycled-content requirements and traceability in shaping the market. However, the event also underscored persistent challenges, particularly inadequate collection, source segregation and the need to integrate the informal waste-picking sector more effectively into the formal recycling economy. Design for recycling and improved packaging recyclability were identified as important elements of the next phase of growth.

The discussions reflected a broader shift in the Indian plastics industry: recycling is increasingly being viewed not merely as a waste-management activity, but as a strategic source of raw materials, resource security and industrial competitiveness.





Participation in GCPRS 2026

GSPMA participated in Global Conclave on Plastic Recycling & Sustainability (GCPRS) show organized by AIPMA at New Delhi during 2nd to 5th July 2026. GSPMA displayed its promotional information, activities of the association and forthcoming PLEXPOINDIA 2027 Exhibition at its stall. Large number of visitors including dignitaries visited the stall. Team GSPMA visited the exhibition and attended various events held simultaneously.



Participation in HIPLEX 2026

GSPMA participated in HIPLEX 2026 Exhibition organized by TAAPMA from 7th to 10th August 2026 at Hyderabad. GSPMA displayed its promotional information, activities of the association and forthcoming PLEXPOINDIA 2027 Exhibition at its stall. Large number of visitors including dignitaries visited the stall. Team GSPMA visited the exhibition and attended various events held simultaneously.

Interactive Meeting with CM, MP

GSPMA representatives attended the interactive meeting had with Dr. Mohan Yadav, Hon'ble Chief Minister, Madhya Pradesh at Taj Skyline when he happened to visit Ahmedabad. Hon'ble CM talked about inviting investments in Madhya Pradesh and its prospective scope.



GSPMA PUM WORKSHOPS

GSPMA inked MOU with PUM Netherlands for technical collaboration. Accordingly, experts from Netherland will visit India and meet the industry people interested in seeking advice for increase productivity and minimize losses converting into profitability. Recently GSPMA organized various workshops with PUM Netherland expert Mr. Dirk at Daman(52), Surat(31), Rajkot(33) & Ahmedabad two workshop(204+34) during the month of August'26. Mr. Dirk given detailed presentation on Injection Molding Excellence from basics to advanced level, process flow and troubleshooting. Number of benefits took benefit of this knowledge.

GSPMA inked MOU with TPCI

GSPMA entered MOU with Trade Promotion Council of India to promote exhibitions/events of both the institutions. Accordingly, TPCI organized recently INDUSFOOD Exhibition at Gandhinagar in the month of July'26. Other editions are coming to Bangalore in November'26 & Delhi in January'27. GSPMA will promote and participate in each such exhibitions organized by Trade Promotion Council of India.





The Indian Plastics Federation (IPF) has expanded its footprint across industry, education, trade, leadership and social inclusion, combining grassroots engagement with initiatives strengthening the plastics sector. Under President Shri Amit Kumar Agarwal, the Federation has maintained a calendar of seminars, conclaves, awareness programmes and outreach activities.

Say Know to Plastics: Educating Young Minds

IPF's school awareness campaign, "Say Know to Plastics," is built around environmental education rather than rejection of plastics. IPF professionals teach students waste collection, segregation, coloured-bin usage and responsible disposal. Interactive play-card games reinforce these lessons, making sustainability memorable. Children are encouraged to take the message home, extending awareness homeward. The initiative is being scaled through a Principals' Conclave covering 100 Kolkata schools.

Standards and Quality: Supporting MSMEs

On 21 August, IPF and the Bureau of Indian Standards organised an MSME Awareness Programme in Kolkata on "Empowering MSMEs Through Standards, Quality & BIS Certification." Chief Guest Shri Ashoke Dinda, Minister of State for MSME & Textiles, stressed the need for a business-friendly environment. Agarwal highlighted West Bengal's plastics sector, comprising nearly 5,000 processing units, ₹25,000 crore turnover and four lakh direct jobs. IPF also sought a 100-acre plot for a poly park. Discussions covered certification, compliance, recycling and responsible plastic use, emphasising standards as investments in market access

and buyer confidence.

Export-Import Conclave: Opening Global Pathways

The Export Import Conclave 2.0, organised with PLEXCONCIL on 27 June, focused on positioning Eastern India's deep-sea port as a gateway to global markets. Agarwal urged manufacturers to identify imports that could be produced domestically, creating investment opportunities under Atmanirbhar Bharat. PLEXCONCIL Regional Chairman Shri Alok Tibrewala highlighted the deep-sea port's potential to reduce transshipment, freight costs and transit times. On 7 August, IPF and PLEXCONCIL followed with a Walmart Vriddhi Masterclass, helping B2C manufacturers understand seller onboarding, catalogue readiness and marketplace opportunities.

Building Future Leadership

IPF Young Leaders hosted "Leadership Beyond Success" on 1 August, focusing on professionalising family enterprises and preparing the next generation. The NexGen Polymer Leaders committee, chaired by Shri Ankit Birmecha, engages students and young professionals on technology, sustainability and global markets.

Freedom to Excel: Inclusion Through Sport

On Independence Day, IPF joined partners for "Freedom to Excel," showcasing differently-abled cricket. The initiative highlighted polymers' applications in artificial limbs and assistive devices while reinforcing responsible disposal. These initiatives demonstrate IPF's purpose: building a knowledgeable, competitive, responsible and inclusive plastics industry.





The Indian Plastics Institute (IPI) continued its active programme of technical knowledge dissemination, professional development, sustainability, skills development and industry collaboration during April–August 2026. Its activities covered medical plastics, PVC and vinyl technologies, circularity and recycling, composites, employability, technical education and international knowledge exchange.

IPPEX 2026 and DIPI Programme

IPI participated in IPPEX 2026 in Chennai, showcasing its professional and technical activities and engaging with industry stakeholders. Meanwhile, the DIPI 2025–26 batch completed its online programme, with participants expressing satisfaction with the learning experience. Examinations were scheduled for June, while enrolment for the 2026–27 batch commenced.

Medical Plastics and Sustainability



The IPI Cochin Chapter, in association with CIPET and the Kerala Medical Technology Consortium, organised a one-day workshop on “Future of Medical Plastics: Processing Technology & Innovation” at CIPET, Cochin, on 22 April. Discussions covered advanced medical polymers, processing, product development, regulatory frameworks, material innovation, industry–academia collaboration and startup opportunities, complemented by a facility tour.

An Earth Day programme at Chitkara University, Chandigarh, on 23 April focused on environmental awareness among students and faculty.

An eight-week CSR-supported Plastic Processing & Employability Skills training programme, supported by Fine Organic Industries Limited, was inaugurated on 4 May to provide practical, industry-oriented skills for employment in plastics.

Vinyl, Composites and Circularity

IPI and its Indore Chapter, in association with the Indian Vinyl Council, conducted a national seminar on “Transforming Ideas into Reality – Vinyl Perspectives” on 8 May. More than 150 delegates discussed PVC applications, additives, mixing, uPVC and CPVC, processing, sustainability and global standards.

IPI supported the ISAC 2026 International Symposium on Composites in Ahmedabad, which attracted over 200 participants and featured eight panel discussions.

On World Environment Day, 5 June, IPI organised an international webinar with Kenya on plastics circularity and recycling, bringing together experts to examine sustainable plastics management, recycling technologies and circular-economy opportunities.

Chapter-Level Knowledge Initiatives

The Vadodara Chapter’s Sumangauri Maganlal Thakkar Memorial Lecture on 27 June covered polycarbonate applications and global sustainability, alongside a PLASTIVISION India 2027 presentation.

The Mumbai Chapter’s Polyene General Industries Endowment Lecture on 4 July examined blow moulding, automation, process innovation, sustainability and artificial intelligence.



The Bengaluru Chapter’s ALTERNICQ Ltd. Endowment Lecture on 17 July focused on sustainable processing, circularity, supply-chain excellence, automation and smart manufacturing, including a guided FANUC India factory visit.

IPI Chennai also planned technical seminars across major industrial and automotive hubs, strengthening direct engagement with manufacturers and Tier-1 suppliers.



The All India Plastics Manufacturers' Association (AIPMA) recently marked two important occasions reflecting the growth, leadership and global aspirations of India's plastics and packaging industry.

GCPRS Success Party was held earlier on 17 July 2026 at Taj, Santacruz, Mumbai



The 2nd GCPRS Success Party was held earlier on 17 July 2026 at Taj Santacruz, Mumbai, marking the successful completion of the initiative and its achievements. The occasion reflected AIPMA's continued efforts towards supporting industry development and recognising important milestones.



A special felicitation was organised in honour of Dr. Raju D. Desai, AIPMA's nominee as President of Plastindia Foundation, recognising his return to the leadership of the organisation after nearly two decades. The felicitation acknowledged Dr. Desai's longstanding contribution to the plastics industry and his continued commitment to strengthening the sector at both national and international levels. With his extensive industry experience and leadership, his appointment is expected to further support the growth and development of Plastindia Foundation and the wider plastics fraternity. The felicitation ceremony was held on 30 July 2026 at Taj Santacruz, Mumbai, followed by dinner.

Mega International Conference on “India as a Global Sourcing Hub for Plastics & Packaging Industry” at Taj, Lucknow on 13 August 2026.



Continuing its efforts to position India as a preferred destination for global sourcing, AIPMA organised the Mega International Conference on “India as a Global Sourcing Hub for Plastics & Packaging Industry” at Taj Lucknow on 13 August 2026.

The conference focused on India's growing potential as a reliable, competitive and sustainable global sourcing destination for plastics and packaging products. It highlighted India's strong manufacturing base, technological capabilities, skilled workforce, entrepreneurial ecosystem and cost competitiveness, while addressing the opportunities emerging from the transformation of global supply chains.

The conference also emphasised the significant opportunities available to Indian plastics and packaging companies in international markets. Discussions focused on strengthening export capabilities, improving product quality, adopting advanced technologies, embracing digital transformation and meeting evolving global standards. Particular emphasis was placed on enabling MSMEs to expand their presence in international markets and become an integral part of global supply chains.

Another important area of discussion was the growing opportunities arising from India's expanding network of Free Trade Agreements (FTAs).

These developments can provide Indian manufacturers and exporters with improved market access and greater opportunities to compete in international markets.

The conference was honoured by the presence of Shri Brijesh Pathak, who was invited as the Chief Guest. His presence added significance to the conference and highlighted the importance of the plastics and packaging industry in contributing to industrial development, employment generation, exports and economic growth in Uttar Pradesh and across India.

The Lucknow conference reinforced AIPMA's continued focus on creating greater awareness of India's capabilities as a global manufacturing and sourcing destination. By promoting exports, encouraging technological advancement and highlighting emerging international opportunities, AIPMA continues to support the industry in strengthening its global competitiveness.

The felicitation of Dr. Raju D. Desai and the successful GCPRS Conference celebration, followed by the Mega International Conference in Lucknow, reflect AIPMA's continued commitment to industry leadership, global market expansion and strengthening India's position in the international plastics and packaging value chain.



Mr. Deepak Lawale
Secretary General of OPPI
and **Mr. Ramy Jallad, CEO, RAKEZ**
signing the memorandum of
understanding.

Ras Al Khaimah, 20 July 2026: Ras Al Khaimah Economic Zone (RAKEZ) concluded a series of high-level business engagements in Mumbai, India, led by Group CEO Ramy Jallad. The visit formed part of a broader two-week RAKEZ roadshow across India, also covering Bengaluru, Coimbatore, Hyderabad and Pune, aimed at strengthening UAE-India trade and investment ties and creating new pathways for Indian companies exploring regional and global expansion in the UAE.

In Mumbai, the delegation held a series of B2B meetings with prominent Indian companies across diverse sectors, including automotive manufacturing, petrochemical trading, chemical, alternative energy solutions, engineering etc.

As part of the visit, RAKEZ also signed a Memorandum of Understanding (MoU) with the Organization of Plastics Processors of India (OPPI), on 20th July 2026. The MoU was signed by RAKEZ Group CEO Ramy Jallad and OPPI Secretary General Deepak Lawale. The partnership aims to stimulate trade and business opportunities, create synergies for cooperation and development, and support Indian business owners through commercial missions, fairs, exhibitions and other export and investment promotion activities.

Commenting on the visit Jallad said, "India has always been one of RAKEZ's most important investor markets, and our latest visit reflects the depth of this relationship. The discussions we held with business leaders across multiple sectors reaffirm the strong appetite among Indian companies to choose Ras Al Khaimah as a base for regional and global growth. Through focused engagements and strategic partnerships such as our MoU with OPPI, we are creating more opportunities for Indian enterprises to access the UAE's dynamic

business environment, benefit from RAKEZ's cost-effective ecosystem, and scale with confidence."

The MoU with OPPI further supports RAKEZ's efforts to engage sector-focused industry bodies in India and promote Ras Al Khaimah as a competitive destination for manufacturers, processors and exporters. OPPI works closely with plastics processors, manufacturers and related industry stakeholders to promote technology adoption, quality enhancement, good manufacturing practices, sustainability, circularity, skill development and policy engagement.

RAKEZ's Indian business community continues to grow in line with the strengthening UAE-India economic relationship under the Comprehensive Economic Partnership Agreement. Today, RAKEZ is home to more than 13,500 Indian companies, ranging from SMEs to multinational brands such as Mahindra, Ashok Leyland, MSSL, JK Cement, Ace Cranes, G.K. Wire Industries, Bosco Aluminium & Glass, Shyam Middle East, Nash Industries, Xpro India (part of Birla conglomerate), and Dabur Naturelle.

Through continued on-ground engagement and sector-focused outreach, RAKEZ continues to position Ras Al Khaimah as a preferred destination for Indian businesses seeking sustainable growth, regional access and long-term expansion from the UAE.

Through its multi-city outreach, RAKEZ is engaging directly with Indian businesses and industry partners, providing practical insights into establishing and expanding operations in Ras Al Khaimah.

The initiative reflects RAKEZ's continued focus on supporting Indian enterprises across key commercial and industrial centres.

Plastics Exporters' Council Marks Two Months of Expansion

India's plastics export ecosystem recorded a busy July–August 2026, marked by PLEXCONNECT 2026, the India–UK Comprehensive Economic and Trade Agreement (CETA), and renewed efforts to expand market access, alongside continued exhibition, policy and exporter outreach across the country.

PLEXCONNECT 2026

On 30 July, PLEXCONCIL, in association with CIPET, hosted the inaugural PLEXCONNECT 2026 at Hotel ITC Grand Chola, Chennai. The conference attracted over 150 exporters, industry leaders, technology providers, and policymakers. MSME Secretary Pradeep Yadav inaugurated the event and highlighted Tamil Nadu's potential to become an exporter of value-added plastics, including engineering plastics, automotive components, medical plastics and electronics. France's Deputy Consul General Christophe Bramoullé highlighted opportunities from the proposed India–EU FTA, while Additional DGFT Rajalakshmi Devaraj urged exporters to leverage FTAs through quality and innovation. A key outcome was the launch of the FTA Exporter's Handbook for Plastics, jointly prepared by PLEXCONCIL and FICCI.

India–UK CETA

The India–UK CETA came into force on 15 July, with PLEXCONCIL participating in flag-off ceremonies in New Delhi, Nhava Sheva, Mumbai, Kolkata and Chennai. Chennai marked the occasion with commercial shipments valued at USD 446,046.

Exhibitions and Outreach

The Council maintained an exhibition calendar, participating in GCPRS 2026, TEXPO 2026 and HIPLEX 2026 in Hyderabad. These platforms enabled engagement with manufacturers and promoted

membership, export schemes and market opportunities across markets.

Policy Engagement

PLEXCONCIL participated in DGFT and Commerce Ministry meetings covering EPC reviews, the Export Promotion Mission, EUDR preparedness and FTA consultations involving Canada, Israel, Korea, the Netherlands, Thailand and Vietnam. It also joined discussions on India's export roadmap and DEPC meetings in Valsad, Rajkot, Cuttack, Puri and Mumbai.

Capacity Building

Webinars covered export credit support for MSMEs, the Export Promotion Mission, plastic-waste management, EPR compliance and export opportunities for SC/ST entrepreneurs.

Norway Market Push

On 31 August, PLEXCONCIL began collaborating with Norway's Environment Agency to build awareness of plastic-quality and sustainability requirements and explore a virtual Buyer–Seller Meet.

Policy Submissions

The Council submitted 26 representations in July and 30 in August, addressing freight, shipping lines, IGST, duty drawback, tariffs, GST/BCD issues, Budget inputs and product-specific rules under several FTAs.



**AMI Compounding & Recycling Expo****01****23 - 24 September, 2026**

Messe Frankfurt, Frankfurt, Germany

ColombiaPlast - Expoempaque 2026**02****28 September - 2 October, 2026**

Corferias, Bogota, Colombia

PackPrintPlas Philippines 2026**03****8 - 10 October, 2026**

SMX Convention Center Manila, Manila, Philippines

Fakuma 2026**04****12 - 16 October, 2026**

Messe Friedrichshafen, Friedrichshafen, Germany

PACK EXPO International 2026**05****18 - 21 October, 2026**

McCormick Place, Chicago, Illinois, USA

Paper & Plastics Recycling Conference 2026**06****28 - 29 October, 2026**

Hyatt Regency Chicago, Chicago, Illinois, USA

Plastimagen Mexico 2026**07****10 - 13 November, 2026**

Centro Citibanamex, Mexico City, Mexico

AMI Plastics World Expos North America 2026**08****11 - 12 November, 2026**

Huntington Convention Center of Cleveland, Cleveland, Ohio, USA

Plastics & Rubber Indonesia 2026**09****17 - 20 November, 2026**

Jakarta International Expo (JIExpo), Jakarta, Indonesia

Plastech India Expo 2026**10****27 - 29 November, 2026**

Codissia Trade Fair Complex, Coimbatore, Tamil Nadu, India

Plast Eurasia Istanbul 2026**11****2 - 5 December, 2026**

Tuyap Fair and Congress Center, Istanbul, Turkey

RACE 2026 (Recycling and Compounding Expo)**12****14 - 16 December, 2026**

Hall 3, Bombay Exhibition Centre (NESCO), Mumbai, Maharashtra, India

Plastivision India 2027**13****21 - 25 January, 2027**

Bombay Exhibition Centre (NESCO), Mumbai, Maharashtra, India

Ruplastica 2027 (formerly Interplastica)**14****26 - 29 January, 2027**

Crocus Expo Exhibition Center, Krasnogorsk (Moscow Region), Russia

PLASTEC West 2027**15****9 - 11 February, 2027**

Anaheim Convention Center, Anaheim, California, USA

Bharat Plast Show 2027**16****25 - 28 February, 2027**

Science College Ground, Great Eastern Road, Amanaka, Raipur, Chhattisgarh, India

Plastindia 2028**17****10 - 14 February, 2028**

Bharat Mandapam, New Delhi India

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Excellent Processability



ROHS / REACH Compliant



Non Halogenated FR

Applications:

- PP Non Woven Fabric
- PE & PP Injection Moldings
- Technical Textiles
- Electrical Parts
- Automobile Parts & Components
- DWC Pipes
- Polyester Fiber

Reach out to us for tailor-made solutions designed for your specific requirements.

✉ : dhirendra@jjplastalloy.com

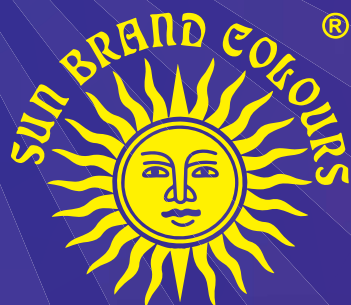
🌐 : www.jjplastalloy.com

☎ : +91 8808 736 600

Manufacturing Units -

• Bharuch (Gujarat) • Varanasi (U.P), India.





ReSole

PIGMENT DISPERSIONS

TN SERIES | UP SERIES | EPCA SERIES
FP SERIES | NP SERIES

We manufacture pigment dispersions for :

- PVC paste grade resin
- Water based formulations
- Seed coatings
- Solvent based industrial coatings
- Epoxy resin
- Nail polish manufacturing – schedule Q approved

Key features of ReSole® Pigment dispersions :

- Low particle size (<1 micron)
- High pigment strength
- Available in a Hugh of shades
- Shade matching facilities available for plastisol
- Anti-sagging and anti-settling technology

**WE ARE MANUFACTURERS,
EXPORTERS AND PROVIDERS OF
POWDER AND LIQUID PIGMENTS
AND DYES, PIGMENT
DISPERSIONS AND OPTICAL
BRIGHTENERS.**

Our inventory includes:

Organic Pigments, Inorganic Pigments, Mixed metal oxides, Fluorescent Pigments & Dyes, Synthetic Food Dyes & Lakes, Colourants for Cosmetics, Home Care, Health & Hygiene Products, Polymer Soluble Dyes, Petroleum Dyes, Metal Complex Solvent Soluble Dyes, Wax Soluble Dyes, Paper Dyes, Basic Dyes, Acid Dyes, Titanium, Optical Brighteners, Carbon Black, Aluminum Paste & Powders, Gold & Bronze Metal Powders, Pearl Pigment.



(Since 1991)

SHREE NATH JI DYE STUFFS

(AN ISO 9001:2015 and ISO 14001:2015 CERTIFIED CO.)

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