

PLEXCONNECT

EDITION 71, SEPTEMBER 2025

PRODUCT OF THE MONTH Pg No. 22
Other Films and Sheets of Plastic

Pg No. 34
GLOBAL TRENDS & INNOVATIONS



**NEW!
POINT OF VIEW**

Pg No. 26

Sandip Singh
Co-founder and CEO
(Ishitva Robotic Systems Pvt Ltd)

COUNTRY PROFILE Pg No. 32
Malaysia

STATE PROFILE Pg No. 28
Madhya Pradesh

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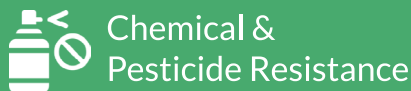
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"INDIA'S PLASTICS SECTOR IS DEMONSTRATING RESILIENCE AND ADAPTABILITY, CAPITALIZING ON STRONG GLOBAL DEMAND AND NEW MARKET OPPORTUNITIES."

INDIA'S PLASTICS EXPORTS ON A STRONG GROWTH PATH: DIVERSIFYING TO OPEN NEW OPPORTUNITIES

India's economy continues to display remarkable strength, recording 7.8% growth in Q1 FY26, far exceeding expectations. This growth reflects the impact of structural reforms and policy measures implemented by Hon'ble Prime Minister Shri Narendra Modi and the Government of India, which are steadily enhancing India's economic foundation and global competitiveness.

In line with this momentum, India's plastics exports registered impressive growth of 12.8% in July 2025, rising to USD 1,149 million compared to USD 1,018 million in July 2024. This performance outpaced the overall merchandise export growth of 7.3% during the same month and marked the highest growth since November 2024. It also represented the fourth consecutive month of expansion in the current financial year, underscoring robust global demand for Indian plastic products.

Of the 13 product panels, 10 reported positive growth. Notable performers included FIBC, consumer & houseware products, human hair, and packaging items. While some categories such as cordage & fishnets, FRP & composites, and pipes & fittings saw a dip, encouraging signs emerged from plastic films & sheets and writing instruments, both of which staged a recovery in July after a decline in June. On a quarterly basis, plastics exports stood at USD 3,110 million during April-June 2025, compared to USD 2,938 million in the same period last year, registering a growth of 5.8%

LOOKING AHEAD: DIVERSIFICATION AND OPPORTUNITIES

The global trade landscape is evolving rapidly, offering both challenges and opportunities. For India's plastics industry, this is a time to strategically diversify markets and product portfolios. The recently concluded trade agreements, such as the FTAs with the UK and Australia and the ECTA, have already opened fresh opportunities for exporters. These agreements not only provide duty-free or concessional access but also strengthen India's integration with key global value chains.

Moreover, ongoing discussions for new FTAs are expected to further broaden the reach of Indian exports into high-potential markets across Europe, Asia, and beyond. This diversification will help Indian exporters reduce dependence on any single market and build long-term resilience.

At the same time, we remain optimistic about strengthening trade ties with the USA, one of our most important partners. Constructive engagement and ongoing dialogue between the two governments provide confidence that a mutually beneficial trade arrangement will emerge in due course, supporting the continued growth of India-US economic relations. India's plastics sector is demonstrating resilience and adaptability, capitalizing on strong global demand and new market opportunities. By focusing on diversification, innovation, and leveraging trade agreements, the industry is well-positioned to sustain growth and contribute significantly to India's export performance in the years ahead.

Warm regards,
Vikram Bhaduria
Chairman, PLEXCONCIL

MEETINGS WITH VARIOUS STAKEHOLDERS

05th August 2025:
VC Meeting under the Chairmanship of Joint Secretary EP (CAP) on Exports to US | Western Region

VC Meeting was held under the Chairmanship of Ms. Aishvarya Singh, Joint Secretary EP (CAP) on Exports to US. Mr Sachin Shah, Vice Chairman, Mr Nilotpal Biswas, Regional Director-East, Ms Bharti Parve, Dy. Director along with HO Team (Research & Statistics) attended the Meeting.

7th August 2025:
VC Meeting organized by EP(CAP) to discuss on Plastics Sector | Western Region

VC Meeting was chaired by Mr Varun Singh, Jt. DGFT, EP(CAP) Division to discuss on sectorial analysis of Plastics Industry. Mr Sachin Shah, Vice Chairman, Mr Nilotpal Biswas, Regional Director-East, Ms Bharti Parve, Dy. Director attended the meeting and submitted necessary inputs.

13th August 2025:
Roundtable Conference on the India-UK Comprehensive Economic and Trade Agreement (CETA) at M.A. Chidambaram Hall, SICCI, Chennai | Southern Region

PLEXCONCIL - Southern Region jointly with Southern India Chamber of Commerce and Industry (SICCI) had hosted a Roundtable Conference on the India-UK Comprehensive Economic and Trade Agreement (CETA) on August 13th 2025 at M.A. Chidambaram Hall, SICCI, Chennai. The Round Table Meeting discussed on the implications and opportunities arising from the recently signed trade deal between India and the UK in the Plastics sector. This CETA is expected to significantly boost bilateral trade and investment by removing tariffs on a wide range of goods & services. Mr. G. Chandrasekhar, incoming Regional Chairman - South discussed on the potential impact for the plastic sector in exploring the UK market.



14th August 2025:
Trade Facilitation Committee Meeting of the Kolkata Customs (Airport) | Eastern Region

The Trade Facilitation Committee Meeting was chaired by the Principal Commissioner of Customs (Kolkata Airport). Mr Nilotpal Biswas, RD & Mr Masood Mallick, Human Hair Exporter Members attended the Meeting and highlighted issues pertaining to exports of Human Hair.



19th August 2025:
Hybrid Meeting with EP- (CAP) Division | Northern Region

The hybrid meeting was chaired by Ms. Aishvarya Singh, Joint Secretary EP (CAP) to discuss on FIBC, film sheet products and the real-time impact of the 50% tariff imposed by the USA, with a focus on market diversification strategies. The Council made a detailed presentation during the meeting, where Mr. Vikram Bhaudauria, Chairman and Mr. Sribash Dasmohapatra, Executive Director also gave sector specific inputs.

22nd August 2025:
Meeting under the Chairmanship of Joint Secretary EP (CAP) | Western Region

The hybrid meeting was chaired by Ms. Aishvarya Singh, Joint Secretary EP (CAP) to discuss on PVC resin products, and the real-time impact of the 50% tariff imposed by the USA, with a focus on market diversification strategies. The Council made a detailed presentation during the meeting, where Mr. Vikram Bhaudauria, Chairman, Mr. Arvind Goenka, Past Chairman and Mr. Sribash Dasmohapatra, Executive Director also provided necessary inputs during the meeting.



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26th August 2025: Stakeholder Consultation Meeting on Quality Control Orders (Polycarbonate, Ethylene Dichloride, Vinyl Chloride Monomer) | Eastern Region

The Stakeholder Consultation meeting was held on virtual mode under the Chairmanship of Joint Secretary (Petrochemicals), DCPC. Mr Nilotpal Biswas, Regional Director-East joined the meeting and represented the Council through online mode and submitted necessary inputs.

28th August 2025: Meeting with MoC, Permanent Mission of India (PMI), Geneva | Northern Region

PLEXCONCIL Northern Region participated in the WTO Retreat at the Permanent Mission of India (PMI), Geneva, to discuss key export-related issues concerning the Plastics Sector. The meeting was chaired by the Additional Secretary, Department of Commerce, who provided insights on the export strategy going forward.

WEBINARS

8th August 2025: Webinar on “India-UK CETA: Opportunities for Indian Plastic Exporters” | Western Region

As part of its export awareness initiatives, Plexconcil, in association with the Office of the Additional DGFT, Mumbai, organized a webinar on “India-UK CETA: Opportunities for Indian Plastic Exporters” on 8th August 2025.

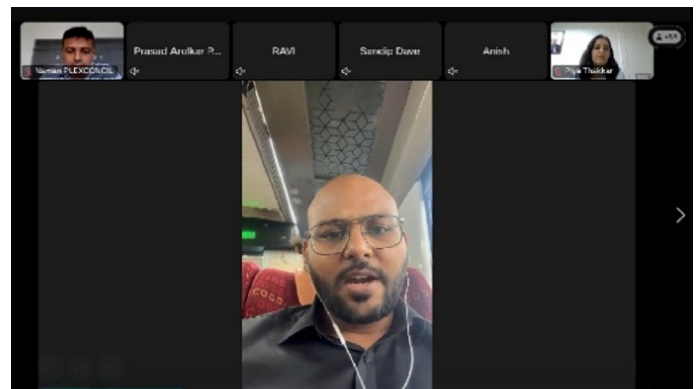
The recently signed **India-United Kingdom Comprehensive Economic and Trade Agreement (CETA)** marks a significant milestone in India’s international trade landscape.

This landmark agreement is set to unlock substantial export opportunities across various sectors—including the plastics industry, which Plexconcil is proud to represent and promote.

The session commenced with opening remarks by **Mr. Naman Marjadi, Assistant Director, Plexconcil** (Ahmedabad Office), followed by a welcome address by **Ms. Piya Thakker, Panel Chairman - FRP/Composite, Plexconcil**.

The keynote presentations were delivered by **Mr. Vishwajeet Chimankar, Deputy Director General of Foreign Trade (Dy. DGFT)**, and **Mr. Sudhakar Kasture**, who provided an overview of export opportunities under the India-UK CETA, and shared valuable insights and in-depth knowledge on how Indian exporters—particularly in the plastics sector—can benefit from this agreement.

The **Question & Answer** session was moderated by **Ms. Bharti Parave, Deputy Director, Plexconcil**. The event concluded with a **Vote of Thanks** delivered by **Mr. Prasad Arolkar, Assistant Manager, Plexconcil**. A total of over 100 participants has participated in the webinar.



STATE OUTREACH INITIATIVES

30th July 2025:
First-Ever Human Hair Exporters’ Meet organised jointly by PLEXCONCIL & West Bengal Human Hair Association at Digha, Purba Medinipur | Eastern Region

BACKGROUND: India is one of the largest sources of human hair in the world, with significant collection and processing hubs in West Bengal, Tamil Nadu, Andhra Pradesh, and Odisha. Indian hair is globally renowned for its natural quality, strength, and durability, particularly favored in European, African, and American markets for use in wigs, extensions, and fashion accessories.

However, over the past few years, the Indian human hair industry has been facing serious challenges due to the increasing export of unprocessed (raw) hair to neighboring countries like Myanmar and Bangladesh. These countries are processing the raw hair and exporting the finished products — directly competing with India in the international market.

In this context, the Human Hair Exporters’ Meet was organized for the first time to provide a platform for stakeholders to discuss critical issues, raise policy-level demands, and explore collective strategies for growth.



MEETING SYNOPSIS: Mr Manoj Samata, Secretary, West Bengal Human Hair Association welcomed all the dignitaries. The welcome note emphasized the socio-economic importance of the human hair sector, particularly in rural and semi-urban regions where women and artisans are engaged in sorting, cleaning, and processing of human hair. Mr. Sekh Mukul Ali, Senior Exporter & Mr. Masood Mallick, Human Hair Industry Representative made a detailed presentation highlighting the following:

Current Scenario:

Indian raw hair, collected through temples, salons, and rural collection centers, is being exported in bulk to Myanmar and Bangladesh, where it is processed and re-exported. As a result, Indian processing units are losing access

to raw material, hampering their production and causing job losses.

Economic Impact:

If the trend continues, thousands of jobs — especially those held by women in rural hair sorting and processing units — will be lost. The sector provides direct and indirect employment to nearly 10 lakh people in West Bengal alone.

Competitor Advantage:

Myanmar and Bangladesh benefit from lower labor costs and government support, allowing them to process Indian raw hair and sell finished products at competitive prices in Europe and Africa. This undermines Indian value-added exporters.

Key Demand:

An immediate ban on the export of raw human hair was proposed. This would ensure raw material availability for domestic processors and promote value addition within India.

Speaking on this occasion, Mr. Cherian informed that human hair is a labour intensive sector as it provides employment to several hawkers, self-employed women and youth across the country. Indian human hair enjoys great demand in the western countries because of its thin texture, which is favourable for producing value added products such as wigs. Therefore, India has an edge over China in this sector. West Bengal contributes around 90% to the processed human hair output of the country.”

Mr. Cherian emphasised that there is great potential for value addition and export of human hair from India with targeted government support. He said, “Already, two lakh hawkers are engaged across various villages to collect human hair waste from households. This sector not only supports employment, rural livelihood and women’s em-

★ COUNCIL ACTIVITIES

powerment, but also contributes to Swachh Bharat Abhiyaan as human hair, which otherwise goes as waste in the garbage, is collected for further processing and value addition across homes in villages.”

Mr. Cherian sought government support in discouraging exports of raw human hair so that it is adequately available for local processing industry to produce value added products. Mr. Cherian also suggested government intervention to develop technologies for dyeing human hair. He said, “In future, India’s Commerce Ministry should engage with Indian Institute of Technology (IITs) and the Indian Institute of Chemical Technology to develop advanced technologies for dyeing in order to process raw human hair.”

Mr. Cherian concluded his remarks by pointing out that human hair sector has great potential to contribute to India’s USD 1 trillion merchandise export vision. He said, “India has potential to boost human hair exports by Rs. 25,000 - Rs. 30,000 crore in the next 15 years, which will have multiplier effect on employment and economic growth of the country.”



Government Representation & Response.

The meeting was attended by key government functionaries, including:

Mr Soumendu Ray, IRS , Deputy Commissioner of Customs - Kolkata Airport

Dr R Sampath Kumar, ITS , Joint DGFT (Directorate General of Foreign Trade) - Kolkata

Dr. Mou Sen, Joint Director - MSME Department, Government of West Bengal

They offered the following observations:

Acknowledged the seriousness of the issue and the economic implications for the state and national MSME sector.

Advised the Association and Council to submit a formal representation with data-backed justifications for policy changes (ban).

Expressed willingness to facilitate meetings with relevant ministries such as the Ministry of Commerce & Industry, Ministry of MSME, and CBIC for further discussions.

Stakeholder Interaction & Open House:

During the interactive session, exporters, unit owners, and local cluster representatives shared their personal experiences:

A consistent theme was the sharp decline in availability of raw hair for local processing over the past 2-3 years.

Exporters noted that earlier, Indian value-added hair products dominated the African and European markets, but now buyers are switching to cheaper processed hair from Myanmar and Bangladesh.

Processors requested training, testing facilities, and government recognition under MSME or Handicrafts schemes to avail subsidies and upgrade their equipment.

Key Recommendations from the Meet:

Ban on export of unprocessed raw human hair.

Creation of Human Hair Processing Clusters with common facilities (cleaning, grading, packaging, testing).

Inclusion of human hair industry in MSME support schemes for upgradation and capacity building.

Promotion of “Make in India” and “Export from India” campaigns for finished hair products.

Support for international marketing, buyer-seller meets, and trade fair participation.

CONCLUSION: The First Human Hair Exporters’ Meet at Digha marked a significant step in organizing the voices of grassroots industry stakeholders and initiating a structured dialogue with the government. The overwhelming demand was clear — India must retain and process its raw human hair within the country to sustain livelihoods, promote exports, and compete globally.

The event concluded with a resolution to submit a formal memorandum to the Ministry of Commerce & Industry and other concerned authorities. PLEXCONCIL assured continued advocacy on behalf of the industry.

31st July 2025:

Visit to Human Hair Processing cluster at Purba Medinipur

BACKGROUND: Mr. Benjamin Cherian, Chairman of the Human Hair Panel of PLEXCONCIL, along with Mr. S.K. Mukul Ali, Member of the Committee of Administration (COA)-PLEXCONCIL, Mr. Nilotpai Biswas, Regional Director (East), and a group of leading exporters from the southern states and West Bengal, undertook a field visit to several human hair processing villages located in the Purba Medinipur district of West Bengal. The purpose of the visit was to gain firsthand insight into the prevailing ground-level conditions and challenges faced by grassroots stakeholders involved in the human hair value chain. The delegation visited multiple households engaged in traditional hair cleaning, untangling, and sorting work. These cottage-level processing units are predominantly run by women, many of whom rely solely on this activity to support their families. During the interactions, a unified and urgent concern emerged — the severe scarcity of raw human hair and the exponential rise in its procurement cost in the market.



The workers reported that earlier, raw hair was available at reasonable rates, allowing them to earn a modest but stable income. However, with the growing volume of raw hair exports—particularly to neighboring countries like Bangladesh and Myanmar—the domestic availability of quality raw material has drastically declined. This scarcity has pushed up prices, making it unaffordable for small processors and women-led units to continue their work. Many stated that they are forced to remain idle for days due to non-availability of raw material, leading to loss of income and growing financial distress.



In every village visited, the message was clear: unless immediate steps are taken to regulate the export of raw human hair and ensure sufficient availability for domestic processing, thousands of grassroots workers, especially women, will be left without any livelihood support. The delegation observed that this is not just an economic concern but also a looming social crisis, as entire families stand to lose their source of income.



The workers earnestly requested the visiting team to escalate their concerns to the appropriate authorities and urged the government to review the current export policy, particularly for raw human hair under HS Code 0501. They called for a ban, to discourage mass raw hair exports and to protect the domestic value-added hair processing industry.

MEDIA COVERAGE:

- Name of the Media
- Khobor Bangla
- JB Live News
- Chandipur Live News
- Medinipur Barta

5th August 2025:

Export Awareness Program for the Plastic Industry under the Niryat Bandhu Scheme of the DGFT (Special session on India - UK CETA) at Ahmedabad

An Export Awareness Program for Plastic Industry Manufacturers & Exporters, organized by the Office of the Additional Directorate General of Foreign Trade (DGFT), Ahmedabad, in collaboration with The Plastic Export Promotion Council (Plexconcil) and Gujarat State Plastic Manufacturers Association (GSPMA) at Ahmedabad Management Association (AMA), Ahmedabad on 5th August, 2025. This program, held under the Niryat Bandhu Scheme of the DGFT, aims to mentor new and potential

★ COUNCIL ACTIVITIES

exporters on the nuances of foreign trade and to enhance exports subsequently.

A key feature of the event was a dedicated session to highlight the key **aspects of the India-UK Comprehensive Economic and Trade Agreement (CETA)** and its potential benefits for exporters.

Mr. Alpesh Patel, Gujarat Regional Chairman, Plexconcil and Director, Knack Packaging Pvt Ltd delivered Welcome Address for this event and Mr Nitin Khatang, Vice President, GSPMA delivered opening remarks.

Dr Rahul Singh, Joint DGFT, DGFT RA Ahmedabad delivered Keynote address while Ms. Devika Gowrishankar, GM Foreign Exchange Department, RBI Ahmedabad RO gave Special Address.

Mr. Anupam Kumar, Joint DGFT and DC Dahez and Sterling SEZ addressed a dedicated Session on India -UK CETA and its benefits for plastic exporters.



There were thematic Presentations on Export Awareness Program for Plastic Industry, International Parcel and Other Services of India Post, Trade operations under FEMA 1999 and Export Receivables: Risk Mitigation. These presentations were given by Ms. Deepshikha Singh, Assistant DGFT, DGFT RA Ahmedabad, Mr. Dipal Mehta and Mr. Khemchand, Marketing Executive, India Post, Mr. Anil Hasani, AGM, Foreign Exchange department, RBI Ahmedabad RO, Mr. Saket Kumar, Assistant General Manager & Branch Manager, ECGC, Ahmedabad

Mr Naman Marjadi, Asst. Director, Plexconcil gave an overview of Gujarat's Plastic exports & services provided by PLEXCONCIL to the export community.

The event ended with Vote of Thanks by Mr. Mansukh G Savaliya, Hon. Secretary, GSPMA.



LIST OF REPRESENTATIONS MADE IN AUGUST 2025

1. Representation to the EPR Division, Central Pollution Control Board (CPCB), regarding non-functionality of the EPR Portal.

2. Representation to the NAFTA Division, Department of Commerce, New Delhi, regarding the implications of increased U.S. tariffs on Indian FIBC exports from the Indian Flexible Intermediate Bulk Container Association.

3. Representation to the Insurance Regulatory and Development Authority of India (IRDAI), Head Office (Hyderabad), regarding reinstatement of FLEXA tariff discounts for low-calorific plastic goods manufacturing units.

4. Representation to the Joint Secretary, EP(CAP) Division, Department of Commerce, New Delhi, regarding review of import duty on white masterbatches due to the inverted duty structure affecting the domestic industry.

5. Representation to the Joint Secretary, LAC Division, Department of Commerce, regarding harmonization of preferential duty rates on PP woven sacks under the India-Chile PTA.

6. Representation to the GST Council, Delhi, regarding amendment in the utilization of Input Tax Credit under GST.

7. Representation to DGFT, New Delhi, regarding discrepancies in RoDTEP implementation for INR transactions to Nepal – request for DGFT clarification.

8. Submission of inputs to O/o DCPC regarding Quality Control Orders for Polycarbonate, Ethylene Dichloride, and Vinyl Chloride Monomer.

9. Submission of inputs to the EPCAP Section regarding export quality and compliance support under the Export Promotion Mission.

10. Submission of pre-budget proposals for the year 2026-27 to the EPCAP Division, Department of Commerce.

11. Submission of inputs on the inverted duty structure (BCD + GST) to the EPCAP Division, Department of Commerce.

12. Submission of inputs to the FT (WANA) region of the Department of Commerce regarding the high-level visit from the UAE on 29-30 August 2025.

13. Submission of inputs to the EPCAP Division on rea-

sons for the surge in imports of value-added products and raw materials during April-June 2025.

14. Submission of information to the EPCAP Division regarding export potential to EFTA countries.

15. Submission of information to the EPCAP Division regarding export potential for petrochemical products to EFTA countries.

16. Submission of inputs to the EPCAP Division regarding the impact of U.S. tariffs on plastic exports.

17. Submission of inputs to the EPCAP Division regarding top five markets and export diversification potential for Chapter 39 plastic products.

18. Submission of inputs to the EPCAP Division regarding export opportunities for the India-Oman Trade Potential Virtual Meeting.

SUMMARY OF EXPORTS

India's plastic exports grew for the fourth consecutive month this financial year, rising 12.8% in July 2025, surpassing 7.3% growth in overall merchandise exports. In value terms, exports grew to USD 1.02 billion in July 2025 from USD 1.15 billion in the year ago month. Steady growth in plastic exports suggests robust demand for Indian products in the global market. Export of value added plastic products grew 11.6%, while shipment of raw materials expanded 6.0%. There was a 73.4% rise in export of human hair and allied products. Among value-added products, the highest growth in value terms was recorded in: FIBC, woven sacks & woven fabrics (30.8%); Writing Instruments & Stationery (23.4%) and Flexible & Rigid Packaging Items (17.4%).

Cumulatively, plastics export during April - July 2025 was USD 4,258 million as against USD 3,956 million during the same period last year, registering an increase of 7.6% led by growth across most of the plastic product categories.

To view detailed reports for any of the previous months please visit: <https://plexconcil.org/statistics>



Shipment of raw materials expanded 6%



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- ✦ Non Remy Double Draw Natural Hair-grey
- ✦ Non Remy Double Draw Natural Hair-white
- ✦ Remy Single Draw Natural-black
- ✦ Bulk Hair

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Mr. Prem Kumar Solanki



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ANALYSIS OF INDIA'S PLASTICS EXPORT

JULY 2025



KEY FINDINGS

Plastic exports grew 12.8% in July 25, surpassing 7.3% growth in overall merchandise exports during the month. This is the highest growth in plastics exports since November 2024.

This marks the fourth consecutive month of growth in current financial year indicating strong demand for Indian plastic products globally.

10 out of 13 product panels posted growth in exports led by strong rise in shipment of FIBC, Consumer & Household Products, Human Hair and Packaging Items.

On the other hand, exports of cordage & fishnets, FRP & Composites and pipes & fittings recorded contraction in shipments.

Plastic films & Sheets and Writing Instruments posted recovery in exports in July 2025 from decline in shipments in the previous month (June 2025)

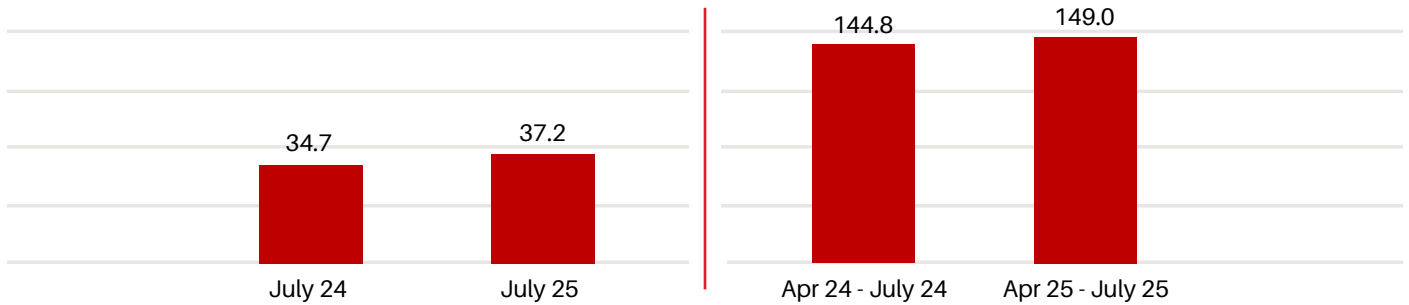


TREND IN OVERALL EXPORTS

India’s overall merchandise posted 7.3% growth during July 2025 led by strong increase in shipment of smartphones, pharma products, certain gems & jewellery, petroleum products, motor cars and other goods. Cumulative merchandise exports during Apr-Jul 2025 recorded 2.95% growth.

Exhibit 1: Trend in overall merchandise exports from India

(USD Billion)



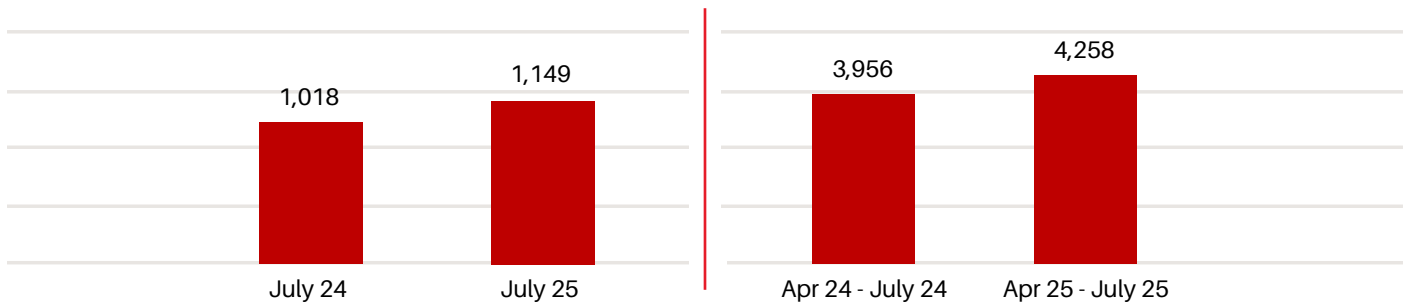
Source: Ministry of Commerce & Industry, Government of India

TREND IN PLASTICS EXPORT

During July 2025, India’s plastic exports grew 12.8% to USD 1,148.62 million from USD 1017.98 million in the year ago month. This is the fourth consecutive monthly growth in this financial year and it is also the highest growth registered since November 2024. During the first four months of this financial year, plastic exports posted 7.6% growth to USD 4.26 billion from USD 3.96 billion in the year ago period.

Exhibit 2: Trend in plastics export by India

(USD Million)



Source: Ministry of Commerce & Industry, Government of India

PLASTICS EXPORT, BY PANEL

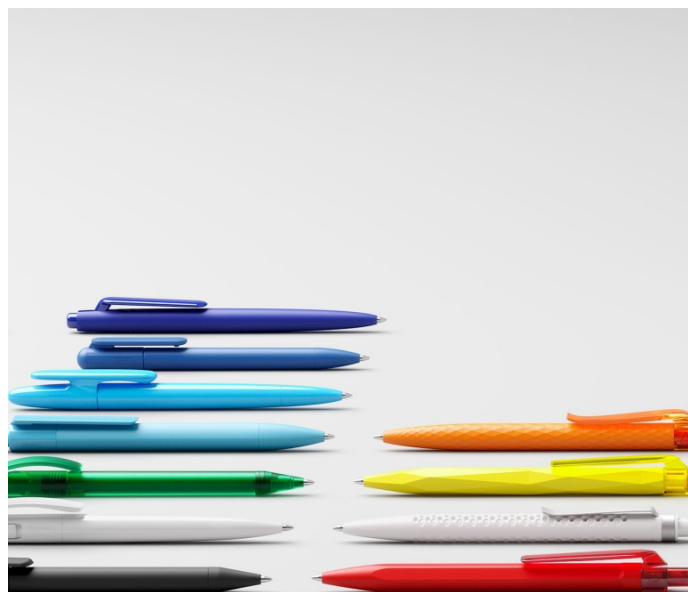
In July 2025, 10 out of 13 product panels registered growth in exports, while the remaining recorded contraction in shipments. Specifically, FIBC & woven sacs, consumer & houseware products, writing instruments, human hair and packaging items posted double digit growth in exports. Other panels such as floor coverings, plastic medical items, films & sheets and raw materials witnessed single digit expansion in exports.

On the other hand, export of cordage, fishnets, FRP & composites and plastic pipes & fittings posted decline in shipments during the month as the following Exhibit shows.

Exhibit 3: Panel-wise % growth in plastics export by India

Panel	Jul-24	Jul-25	Growth	Apr 24-Jul-24	Apr 25-Jul-25	Growth
	USD million	USD million	%	USD million	USD million	%
Consumer & houseware products	69.2	78.5	+13.5%	255.1	295.3	+15.8%
Cordage, fishnets & monofilaments	25.9	23.8	-8.0%	94.2	92.4	-1.9%
FIBC, Woven sacks, Woven fabrics, Tarpaulin	127.5	166.8	+30.8%	466.9	584.1	+25.1%
Floorcoverings, leathercloth & laminates	65.6	67.0	+2.2%	246.1	250.8	+1.9%
FRP & Composites	46.6	46.3	-0.8%	173.3	169.7	-2.0%
Human hair & related products	44.5	77.1	+73.4%	226.3	281.2	+24.3%
Medical items of plastics	47.4	52.1	+9.9%	181.2	188.1	+3.8%
Miscellaneous products and items nes	59.9	79.5	+32.7%	221.1	275.8	+24.7%
Packaging items - flexible, rigid	55.5	65.2	+17.4%	215.4	235.2	+9.2%
Plastic films and sheets	165.4	168.3	+1.7%	669.1	649.9	-2.9%
Plastic pipes & fittings	34.4	28.4	-17.4%	104.9	103.4	-1.4%
Plastic raw materials	257.7	272.9	+5.9%	1,020.0	1,045.6	+2.5%
Writing instruments & stationery	18.5	22.8	+23.4%	82.8	86.9	+5.0%
Total	1,018	1,149	+12.8%	3,956	4,258	+7.6%

Source: Ministry of Commerce & Industry, Government of India



Exports of Consumer & Houseware Products

witnessed 13.5% growth during the month led by strong increase in shipment of Toothbrushes (96032100) to Belgium, USA, Indonesia, Mexico and many other markets; Plastic Build ware materials (39259090) to UAE, UK; Switches of Plastics (85365020) to Germany, Indonesia & Brazil.

Cordage, Fishnets & Monofilaments posted negative export growth of (-)8.0% because of weak global demand for top products such as Nylon Fishing Nets (56081110), PolyethIn/PolypropylIn Cordage (56074900) and Monofilament Rods & Sticks (391690).

FIBC, Woven Sacks and Women Fabrics posted healthy export growth of 30.8% as Indian suppliers benefited from strong orders from Germany, Spain, Netherland, USA and other countries for FIBC products made of man-made textile (63053200); There was also strong demand for Sacks and Bags of Plastics (39232990) in Tanzania, Sudan, Spain and other countries.

Shipment of Floor Coverings, Leather Cloth & Laminates posted 2.2% growth led by increase in order inflows for Decorative Laminates (48239019) from Israel, UAE, USA and other markets; rise in demand for PVC Coated Fabrics (59031090) from South Africa, Mexico, USA and other markets.

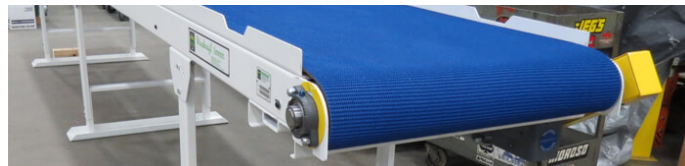
Export of FRP & Composites fell 0.8% in July 2025 because of drop in overseas demand for Other Plastic articles (392690) in USA, Canada, Brazil and other markets.

Export of Human Hair & Related Products grew 73.4% led by healthy growth in shipment of Unworked Human Hair (05010010) to Myanmar. Also, exporters benefited from recovery in overseas demand for Worked or Dressed Human Hair (67030010).



India recorded a 9.9% growth in exports of **Medical Items of Plastics** in July 2025, led by higher shipments of Catheters, cannulae of plastics (90183930) and Syringes of plastics (90183100). The growth was supported by a recovery in overseas demand after a contraction in the previous month, with key markets driving the rebound.

Miscellaneous Products & Items n.e.s. registered strong growth of 32.7% in July 2025, primarily driven by healthy demand for optical fibre bundles & cables (90011000) in the USA, UK, and China. In addition, Indian exporters benefited from a rebound in demand for PVC Belt Conveyors (39269010), particularly in Malaysia and China, further supporting the segment's overall performance.



Packaging Items - Flexible, Rigid posted a robust 17.4% growth in exports in July 2025, driven by higher demand for Articles for the conveyance or packaging of goods, of plastics (39239090) in the USA, along with strong shipments of Polyethylene Sacks & Bags (39232100) to the USA and Tanzania. The segment also gained from increased export orders of Carboys, Bottles, Flasks & Similar Articles (39233090) from Singapore and Nepal, reflecting steady recovery in packaging demand across key markets.

Shipment of **Plastic Films & Sheets** recorded a growth of 1.7% in July 2025, rebounding after a 5.7% decline in June 2025. The recovery was supported by higher exports of Plates, sheets, film, foil and strip of non-cellular plastics (39201019) and Plates, sheets, film, foil and strip of non-cellular polyesters (39206919), with demand from key overseas markets driving the upturn.

Export of **Plastic Pipes & Fittings** fell by 17.4% in July 2025, mainly due to lower demand for fittings such as joints, elbows and flanges (39174000) and rigid tubes, pipes and hoses (39172990) in key overseas markets.



Export of **Plastic Raw Materials** registered a growth of 5.9% in July 2025, supported by strong overseas demand for Epoxy Resins (39073010), Other Polyethers (39072990) and Linear Low-Density Polyethylene (LLDPE) (39014010). Increased orders from key international markets contributed to the overall rise in shipments.

Export of **Writing Instruments & Stationery** rose sharply by 23.4% in July 2025, recovering from a 1.7% decline in June 2025. The growth was driven by higher shipments of Ball-point Pens (96081019 and 96081099), with strong demand from key overseas markets supporting the rebound.

Exhibit 4: Details of % change seen in top 50 items of export

HS Code	Description	Apr 24-Jul-24	Apr 25-Jul 25	Growth
		Values in USD Mn		(%)
63053200	Flexible intermediate bulk containers	272.0	354.2	+30.2%
67030010	Human hair, dressed, thinned, bleached or otherwise worked	180.9	194.9	+7.7%
39269099	Other articles of plastics n.e.s	170.8	168.0	-1.7%
39232990	Other sacks and bags of plastics excl. those of polymers of ethylene	144.6	173.1	+19.7%
39021000	Polypropylene	123.3	83.3	-32.4%
39076190	Other primary form of polyethylene terephthalate	95.3	91.3	-4.3%
48239019	Decorative laminates	104.7	112.1	+7.1%
90011000	Optical fibres, optical fibre bundles and cables	98.2	137.8	+40.4%
39206220	Flexible and plain sheets and film of non-cellular polyethylene terephthalate	92.8	74.1	-20.2%
39269080	Polypropylene articles	83.6	89.7	+7.3%
39069090	Other acrylic polymers, in primary forms	70.6	79.1	+12.0%
39202020	Flexible and plain sheets and film of non-cellular polymers of ethylene, not reinforced	79.9	67.4	-15.7%
59039090	Sacks and bags, incl. cones, of polymers of ethylene	73.0	68.1	-6.8%
39232100	Other textile fabrics impregnated, coated, covered or laminated with plastics other than polyvinyl chloride or polyurethane	66.6	72.8	+9.3%
39239090	Other articles for the conveyance or packaging of goods, of plastics	66.6	71.9	+8.0%
05010010	Human hair, unworked	44.3	84.5	+90.8%
39014010	Linear low density polyethylene (LLDPE)	58.8	45.2	-23.2%
39202090	Films and sheets of non-cellular polymers of ethylene, not reinforced	55.6	53.4	-4.0%
90015000	Spectacle lenses of materials other than glass	56.9	57.5	+1.1%
90183930	Cannulae	45.2	54.8	+21.1%
39012000	Polyethylene with a specific gravity of >= 0,94,	38.6	38.8	+0.6%
39219099	Other sheets and film of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked	46.7	43.8	-6.1%
96081019	Ball-point pens	42.6	42.6	0.0%
39199090	Other self-adhesive sheets and film of plastics, whether or not in rolls > 20 cm wide	40.5	34.9	-13.8%

Exhibit 4: Details of % change seen in top 50 items of export

HS Code	Description	Apr 24-Jul-24	Apr 25-Jul 25	Growth
		Values in USD Mn		(%)
56074900	Twine, cordage, ropes and cables of polyethylene or polypropylene	38.1	38.7	+1.4%
39046100	Polytetrafluoroethylene	40.5	46.4	+14.4%
54072090	Woven fabrics of strip or the like, of synthetic filament, incl. monofilament of >= 67 decitex and with a cross sectional dimension of <= 1 mm: Other	41.7	40.9	-1.8%
39076990	Other primary form of polyethylene terephthalate	40.8	44.2	+8.4%
39129090	Other cellulose and chemical derivatives thereof, n.e.s., in primary forms	35.0	45.9	+30.9%
39219094	Flexible and metallised sheets and film of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked	35.0	34.8	-0.5%
39181090	Other floor coverings, whether or not self-adhesive, in rolls or in the form of tiles, and wall or ceiling coverings in rolls with a width of >= 45 cm, of polymers of vinyl chloride	32.0	29.9	-6.6%
39046990	Other fluoro-polymers of vinyl chloride or of other halogenated olefins, in primary forms	36.2	36.8	+1.7%
39241090	Other tableware and kitchenware, of plastics	33.1	34.9	+5.6%
39206919	Other sheets and film of non-cellular polyesters, not reinforced, laminated, supported or similarly combined with other materials, not worked	29.8	38.0	+27.6%
39206290	Other sheets and film of non-cellular polyethylene terephthalate, not reinforced, laminated, supported or similarly combined with other materials, without backing	31.5	29.3	-6.7%
39072990	Other polyethers n.e.s	24.9	34.4	+38.2%
39140020	Ion-exchangers based on polymers of heading 3901 to 3913, in primary forms: Ion exchangers of polymerisation or	30.6	27.1	-11.6%
39095000	Polyurethanes, in primary forms	27.4	28.2	+3.0%
39206929	Plates, sheets, film, foil and strip, of non-cellular polyesters, not reinforced, laminated, supported	32.8	30.8	-6.1%
39204900	Sheets and film of non-cellular polymers of vinyl chloride, containing by weight < 6% of plasticisers, not reinforced	26.5	26.3	-0.7%

Exhibit 4: Details of % change seen in top 50 items of export

HS Code	Description	Apr 24-Jul-24	Apr 25-Jul 25	Growth
		Values in USD Mn		(%)
96032100	Tooth brushes	23.7	30.5	+28.8%
39119090	Other polysulphides, polysulphones and other polymers and prepolymers produced by chemical synthesis, n.e.s.	27.8	30.4	+9.4%
59031090	Other textile fabrics impregnated, coated, covered or laminated with polyvinyl chloride	24.6	26.6	+7.8%
39219096	Flexible and laminated sheets and film of plastics, reinforced, laminated, supported or similarly combined with other materials	25.7	28.7	+12.0%
39201019	Other sheets and film of non-cellular plastics	26.7	28.4	+6.4%
39235010	Caps and closures for bottles	26.4	22.7	-13.9%
39011090	Other polyethylene with a specific gravity of < 0.94, in primary forms	25.3	29.2	+15.2%
39172390	Rigid tubes, pipes and hoses, and fittings therefor, of polymers of vinyl chloride: Other	21.6	24.3	+12.8%
39076930	PET flake (chip)	21.2	35.9	+69.3%
39241010	Tableware and kitchenware, of plastics: Insulated ware	17.3	22.8	+32.2%

Source: Ministry of Commerce & Industry, Government of India

Exhibit 5: Reasons for major decline in plastic products exports

HS Code	Description	Apr 24- Jul 24	Apr 25 - Jul 25	Reasons for decline
		(USD Mn)		
39021000	Polypropylene	123.3	83.3	Exports have fallen because of weak demand in Turkey, Viet Nam, Portugal and Sri Lanka, which are some of India's major markets. Also, export restrictions to Bangladesh via land borders has reduced overseas shipments of this product; Exports have declined also because of domestic shortage as India is a net importer of this raw material.
39014010	Linear low-density polyethylene (LL-DPE)	58.8	45.2	Exports have posted positive growth in July this year after falling in the preceding three months (Apr-June 2025). Exports have declined during April-June because of slowdown in demand in key markets such as China and Viet Nam. Export restriction via land border to Bangladesh has also contributed to decline in shipments. Exports have declined also because of domestic shortage as India is a net importer of this raw material.
39206220	Flexible and plain sheets and film of non-cellular polyethylene terephthalate	92.8	74.1	Indian exporters are facing weak demand in European countries such as Spain, Italy and Germany, which has caused decline in exports. Additionally, the recent fire incident at the production unit of the leading manufacturer Jindal Films affected exports, primarily of BOPP films
39202020	Flexible and plain sheets and film of non-cellular polymers of ethylene	79.9	67.4	There is weak demand for this product in UK, which is the second largest market for this product. Also, exporters are facing lower demand from Spain and Colombia in recent months. Additionally, the recent fire incident at the production unit of the leading manufacturer Jindal Films affected exports, primarily of BOPP films

Source: Ministry of Commerce & Industry, Government of India, Plexconcil Research

1. ECGC's Common Facilitation Centre and SMILE Portal Services

ECGC has set up a Common Facilitation Centre and also started on-demand Video Conferencing facility to address the grievance, query and feedback/suggestion from the customers/stakeholders at their Head office in Mumbai.

The on-demand Video Conferencing facility is for stakeholders at the Regional Offices and DGM headed branches w.e.f. 28.10.2024. you can request your BO/RO for the on-demand VC for any issue.

ECGC has also launched ECGC SMILE Online Customer Portal, a one-stop digital platform for exporters and bankers, to avail various services of the Corporation.

[Link to the PDF](#)

Conclusion:

All these services are built to enhance efficiency, transparency, and user convenience, helping the exporters focus on growing their export business with confidence.

2. International Trade Settlement in Indian Rupees (INR) RBI/2025-2026/71

Vide notification RBI/2025-2026/71, dated August 5, 2025, Reserve Bank of India has waived its prior approval for Authorised Dealer (AD) Category - I banks to open Special Rupee Vostro Accounts (SRVAs) of overseas correspondent banks. It may be recalled that in July 2022 the RBI allowed Authorised Dealer (AD) Category - I banks to open SRVAs, after its approval, to facilitate international trade settlement in local currencies.

[Link to the PDF](#)

Conclusion:

Under the latest notification, AD Category - I banks do not need RBI approval to open Special Rupee Vostro Accounts (SRVAs) of overseas correspondent banks. This will reduce the lead time for opening special rupee vostro account and will facilitate the objective of internationalising Indian rupee.

3. Port restriction on import from Bangladesh; Ref. DGFT Notification No. 24 /2025-26

The DGFT has disallowed import of Twine, cordage, rope, and Cables (HS Code 560790) from any land port on the India-Bangladesh Border. However, it has allowed import through the Nhava Sheva Seaport.

[Link to the PDF](#)

Conclusion:

In continuation with the restriction introduced on import of certain goods from Bangladesh through certain border areas on May 17, 2025, the DGFT has added the above product as well in the list for regulation of imports.

4. CBIC Circular No. 20/2025, 24 July, 2025

CBIC has issued a Circular No. 20/2025-Cus dated 24 July, 2025 providing clarification on the requirement of correlation between imported inputs and export products under the DFIA Scheme, as per FTP 2023 and Notification No. 25/2023-Cus dated 01.04.2023.

Summary - CBIC Clarification:

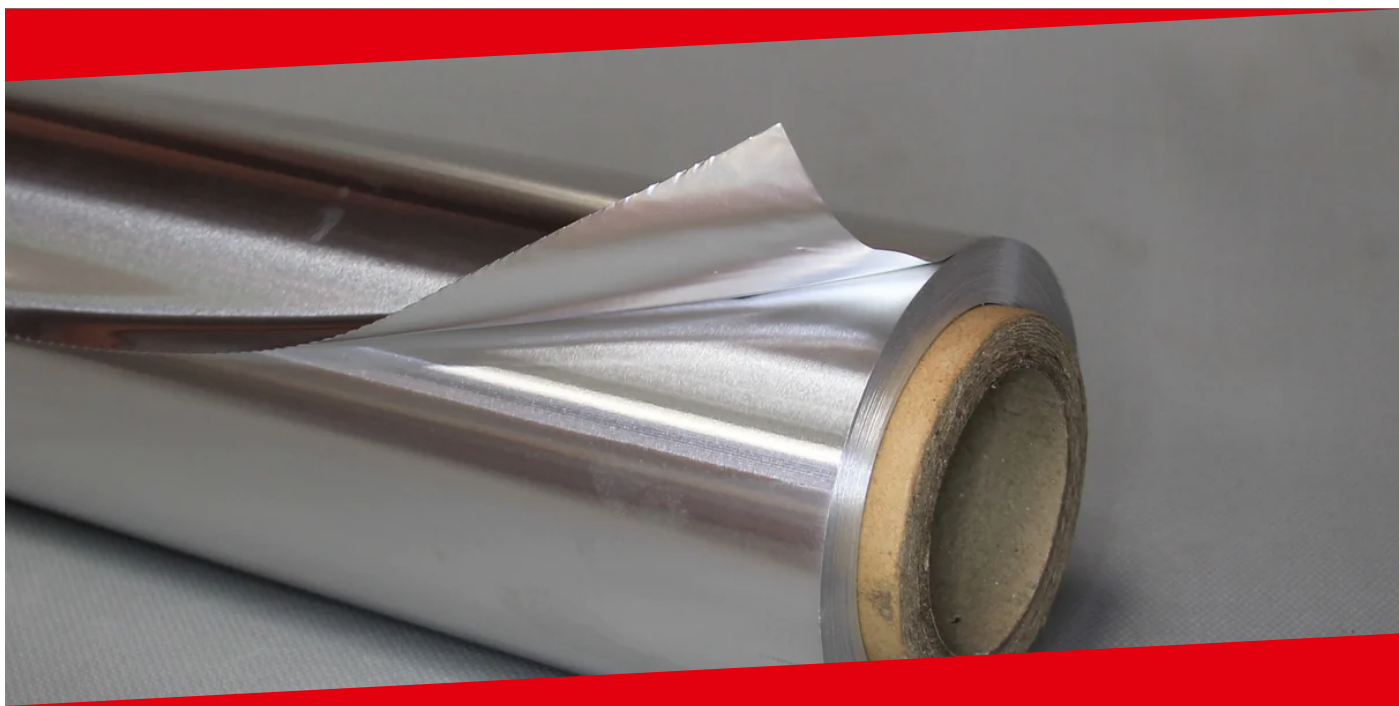
- Correlation of technical characteristics, quality, and specifications is only required for specific inputs listed in Paragraph 4.29 of the Foreign Trade Policy (FTP), 2023.
- For inputs under Paragraphs 4.12 and 4.28(iv) of FTP, 2023:
 - Only the name and quantity of the specific input used must be declared in the Shipping Bill.
 - No requirement to declare technical characteristics, quality, or specifications.

[Link to the PDF](#)

Conclusion:

Members are advised to review the circular and ensure compliance to avoid clearance delays under the DFIA Scheme.

OTHER FILMS AND SHEETS OF PLASTIC



This article analyses global market and India's export potential for a broad range of plastic products classified under Subheading 392190 of the Harmonized System (HS) of Coding. This category includes a variety of plates, sheets, films, foils and strips that are either flexible or rigid, laminated, metallised or lacquered. It also includes Thermocol and other cellular plates & sheets of regenerated cellulose.

These products are used for diverse purposes, depending on their properties, such as rigidity and flexibility. Common applications of these plastic sheets and films are food packaging, protective wrapping, roofing and electrical insulation for buildings, inputs for interior and exterior parts of vehicles and so on.

MARKET DYNAMICS

Global import demand for films and sheets of plastics have grown at a CAGR of 2.0% from USD 14.5 billion in 2014 to USD 17.7 billion in 2024.

- 📌 The **top five exporters of this product** and their **global market share are: Germany** (13.4%), **USA** (9.9%), **China** (8.9%), **Italy** (8.4%) and **Japan** (5.8%)
- 📌 The **top five importers** of this product and their **global import share are: USA** (8.5%), **Germany** (7%), **France** (5.2%), **Mexico** (5.0%) and **Poland** (4.3%)

INDIA'S PERFORMANCE (EXPORTS)

India is the 16th largest exporter of this product, with 2% share in the world market. This share has risen from 1.7% in 2017, indicating growing presence of India in the world market.

India's export of this product has grown 22.6% from USD 297 million in 2023-24 to USD 364 million in 2024-25, which suggesting recovery in export orders after declining 7% in the previous year. In quantity terms, Indian exports have exhibited steady growth - increasing 28% from 103 million tonne in 2023-24 to 132 million tonne in 2024-25 following a 5% growth in the previous year.

The following table outlines top 10 markets for Indian exports of this product in value and quantity terms.

Top 10 Destinations in value and quantity terms 2024-25

Sr. No	Destination Country	Value (USD Mn)	Share in total exports (%)	Destination Country	Qty. (million tonne)	Share in total exports (%)
1	USA	74.6	20%	USA	23.5	18%
2	South Africa	35.8	10%	South Africa	10.9	8%
3	Canada	23.7	7%	Canada	9.9	7%
4	UAE	15.8	4%	Brazil	5.5	4%
5	Brazil	10.6	3%	UAE	5.1	4%
6	UK	10.1	3%	Italy	4.2	3%
7	Italy	10.1	3%	Mexico	3.9	3%
8	Mexico	9.6	3%	Netherland	3.6	3%
9	Netherland	7.9	2%	UK	3.3	2%
10	Ghana	7.8	2%	Nigeria	2.9	2%
	Total of top 10 countries	206.0	57%	Total of top 10 countries	72.8	55%
	Total of all countries	364.4	100%	Total of all countries	132.4	100%

Source: Department of Commerce, Govt. of India, Plexconcil Research

INDIA'S PERFORMANCE (IMPORTS)

India is the 18th largest importer of this product with a share of 1.8% in world import. India's import has fallen 4.4% from USD 328 million in 2023-24 to USD 314 million in 2024-25. This is the second consecutive decline in imports after falling 4.5% in the previous year.

On the other hand, imports have grown in the last two years in quantity terms; Imports have grown 5.0% from 150 million tonnes in 2023-24 to 158 million tonne in 2024-25 after expanding 26% in the previous year. The following table highlights top 10 sources of imports in value terms and quantity terms.

Sr. No	Source Country	Value (USD Mn)	Share in total imports (%)	Source Country	Qty. (million tonnes)	Share in total imports (%)
1	China	157.0	50%	China	127.1	81%
2	USA	33.43	11%	USA	8.6	5%
3	Turkey	31.37	10%	Viet Nam	4.3	3%
4	Germany	12.9	4%	Belgium	2.6	2%
5	Viet Nam	9.09	3%	Turkey	2.4	2%
6	France	8.6	3%	South Korea	1.5	1%
7	Belgium	7.5	2%	France	1.4	1%
8	Japan	6.9	2%	Italy	1.3	1%
9	Italy	5.9	2%	Taiwan	1.3	1%
10	Spain	5.8	2%	Germany	1.1	1%
	Total of top 10 countries	278.5	89%	Total of top 10 countries	151.6	96%
	Total of all countries	314.4	100%	Total of all countries	157.6	100%

Source: Department of Commerce, Govt. of India, Plexconcil Research

★ PRODUCT OF THE MONTH

OPPORTUNITIES FOR INDIAN EXPORTERS

Indian manufacturers of Other Plates, Sheets, Films & Foils of Plastics have abundant untapped export potential in Australia, Canada, China, Japan, South Korea, Malaysia, Mexico, Switzerland, Thailand, United Kingdom and European countries such as France, Germany & Spain.

India can explore exports to Australia, Japan, South Korea which have eliminated duty on this product from India under the existing trade agreements

Canada is the 10th largest importer of this product, and its MFN duty is 0%, which makes it a promising market for Indian exporters.

India has strong export potential in **China**, and it offers preferential duty of 4.2% to India under Asia Pacific Trade Agreement (APTA) against MFN tariff of 7%.

Mexico is another potential market which applies 0%-7% MFN duty depending on the exact product at 8-digit HS code.

ASEAN countries like Malaysia also allow zero MFN tariffs of this product and Thailand offers preferential tariff under the ASEAN-India Free Trade Agreement.

Switzerland is also a market with sizeable export opportunity and its MFN duty on this product is also nil.

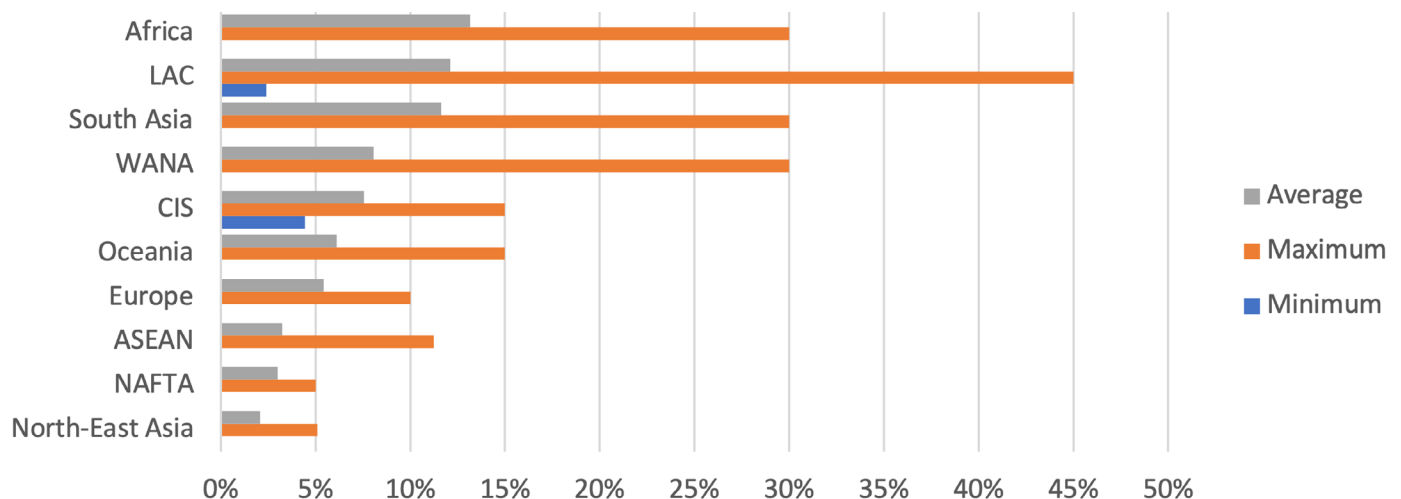
UK is the 6th largest importer of this product, and it offers duty free market access for India under Developing Country Trading Scheme and hence Indian exporters can explore this market.

European countries such as France, Germany and Spain are also leading importers of this product and their MFN tariff is 6.5%

Unfortunately, some countries in Africa, LAC and CIS region do not accord any preferential treatment to other films and sheets of Plastics imported from India due to which the average customs duty faced on this product is high, which can increase the cost of doing business with these products.



Effective tariff applied by various regions on import of other films and sheets of Plastics from India



Source: Latest data from Market Access Map, Plexconcil Research

THE ROLE OF AUTOMATION IN RECYCLING FOR A CIRCULAR ECONOMY

Sandip Singh

Co-Founder & CEO

Ishitva Robotic Systems Private Limited

Over the years, the world has followed a linear model of plastic consumption: produce, use, and discard. What is required now is a decisive shift towards a circular economy where plastics are designed to stay in use, where waste is transformed into valuable raw material.

The regulatory frameworks such as Extended Producer Responsibility have raised the bar by demanding far greater accountability, traceability, and certified compliance. For plastic aggregators, failure to meet purity levels results in debit notes.

For recyclers, contamination reduces the value of their collected materials. For brands, a lack of reliable supply hampers their ability to meet sustainability pledges. These challenges are not isolated. They are interconnected and systemic.

However, the road to a circular economy is complex. A single PET bale can contain bottles with PVC sleeves, labels, metals, or food residues. When foreign materials get mixed into the recycling process, they drastically reduce the quality of the recyclate.

Manual sorting, which still dominates in many parts of the country, is limited in both speed and precision. Infrastructural gaps prevent consistent supply of clean feedstock.

Yet within these challenges lies a remarkable opportunity. Technology is the enabler that can transform recycling from a burden into a value-creating activity. Artificial intelligence and automation can deliver the speed, accuracy, and consistency that traditional methods cannot.

At Ishitva Robotic Systems, we have spent the last decade building and deploying advanced solutions that empower recyclers, aggregators, and brands to meet the demands of circularity.

[A look inside our plant](#)

Our systems leverage computer vision and AI to sort plastics not only by color, shape, and polymer type but also by application requirements such as food-grade use, surpassing the limitations of conventional near-infrared technologies. Materials that were once considered nearly impossible to recover, such as black plastics, can now be accurately identified and separated.

High-speed air sorters powered by AI can identify and segregate PET, HDPE, and polyolefins with efficiency that manual methods cannot match. Flake sorting and analysis systems allow recyclers to achieve purity levels at PPM level (parts per million), enabling the production of premium rPET materials. Our autonomous material recovery facilities are capable of processing mixed municipal waste and extracting valuable recyclables with minimal human intervention.



These are not futuristic concepts. They are real technologies already operating in facilities today. They are helping recyclers consistently meet the exacting recipes demanded by brands, whether for bottle-to-bottle or fiber applications. They are helping aggregators deliver cleaner bales that command better prices. They are helping brands comply with regulatory mandates while strengthening their sustainability narratives to increasingly conscious consumers. Most importantly, they are proving that sustainability and profitability are not contradictory. With the right technology, they are mutually reinforcing.

The economic case for circular plastics is strong. Globally, the market for recycled plastics is projected to exceed 200 billion dollars by the end of this decade. Demand for food-grade rPET and other post-consumer recyclates already outpaces supply in India. Brands are under pressure to reduce their dependence on virgin plastics, which are often imported, and to demonstrate measurable progress on their environmental commitments.

By investing in advanced recycling, Indian industry can capture premium markets, reduce its reliance on imports, generate local employment, and strengthen compliance with both domestic and international standards. Far from being a burden, circularity has the potential to be one of the most powerful engines of industrial competitiveness in the years ahead.

To unlock this potential, India needs a coordinated roadmap. Regulation must be designed not only to enforce compliance but also to stimulate investment in technol-

ogy and infrastructure. Industry must embrace collaboration across the value chain, recognizing that efficiency at one stage benefits all participants. Brands must see recyclers not as vendors but as strategic partners in their sustainability journey. Export promotion councils and trade agreements should continue to incentivize the production of recycled and value-added plastics, aligning India with the highest global standards. And at the center of it all, technology adoption must be scaled up quickly and decisively. Without precision, transparency, and traceability, circularity will remain an aspiration rather than an achievement.

At Ishitva, we see this as both an opportunity and a responsibility. When we started a decade ago, the idea that India could produce food-grade recycled plastics at scale seemed distant. Today, it is no longer a dream. With advanced AI-powered sorting, rigorous flake analysis, and fully automated material recovery facilities, it is already a reality. The next step is to scale this reality across the country and beyond. We are proud to be a company born in India that is now contributing to global sustainability goals, while also helping local communities and industries achieve economic growth. Our mission is simple: to ensure that plastics never end up as waste, but always return as resources for the next cycle.



The future of plastics will not be defined by elimination but by transformation. Plastics will continue to play an indispensable role in our economies and our daily lives. The challenge before us is to ensure they do not become environmental liabilities but remain valuable assets within a circular system. This is not just an environmental necessity. It is an industrial strategy, a trade opportunity, and a social responsibility. India has the scale, the talent, and the entrepreneurial spirit to lead this transformation. What is required now is intent, collaboration, and urgency.

The time to act is not tomorrow. It is today. Circularity is not a distant vision. It is a path already being built by innovators, recyclers, brands, and policymakers who recognize that the future of plastics must be smarter, cleaner, and sustainable. At Ishitva, we are proud to be walking that path and enabling others to do the same.

The question is no longer whether plastics can be part of a circular economy. The question is whether we will move quickly enough to make it a reality. And for the sake of our environment, our economy, and future generations, the answer must be yes.

MADHYA PRADESH:

POWERING EXPORTS, SHAPING THE FUTURE.

STATE PROFILE

Madhya Pradesh is bordered by Uttar Pradesh, Chhattisgarh, Maharashtra, Gujarat, and Rajasthan, giving it a strategic advantage as a land-linked state. With a geographical area of about 308,000 sq. km, it is the second-largest state in the country and is administratively divided into 55 districts.

Its central location provides excellent connectivity to major markets across India through an extensive road, rail, and air network.

Madhya Pradesh has a diversified economy driven by agriculture, industries, and natural resources. It is one of the leading producers of soybean, wheat, pulses, and oilseeds in India, making it a key hub for agribusiness and food processing. The state is also rich in minerals such as coal, diamond, limestone, and manganese, supporting its strong mining and mineral-based industries.

Industrial hubs such as Indore, Bhopal, Gwalior, Jabalpur, and Pithampur have emerged as centres for textiles, pharmaceuticals, engineering, IT, auto components, and manufacturing.

With a growing focus on industrial corridors, logistics, and infrastructure, Madhya Pradesh is rapidly strengthening its role as a major contributor to India's trade and investment landscape.

OVERVIEW OF THE PLASTICS INDUSTRY IN MADHYA PRADESH

Madhya Pradesh ranked 7th in India for plastics exports in 2023-24, with exports valued at **USD 481 million** with a market share of 4.17%.



Panel wise, exports from Madhya Pradesh for the past two years

Source: DGCIS, Plexconcil Research

🔴 **Plastics exports during FY 2023-24** was valued at USD 481 million as against USD 540 million during the same period last year, **registering a decline of 10.8%**

🔴 **Growth in Key Product Panels:**
 Despite an overall decline in exports from Madhya Pradesh during 2023-24, certain product panels registered positive growth. *Plastic Films and Sheets* maintained resilience with a marginal increase, while *Plastic Raw Materials* also performed well with higher exports compared to the previous year. The most notable surge was seen in *Plastic Pipes & Fittings*, which recorded strong growth.

🔴 **Challenges in Specific Segments:**
 Several product categories faced steep declines, impacting the state’s overall performance. *FRP & Composites* witnessed a sharp fall, while *Floorcoverings, Leathercloth & Laminates and Miscellaneous Products* also recorded significant drops. *The Cordage, Fishnets & Monofilaments* segment contracted considerably, reflecting reduced global demand or increased competition. Even traditionally stable categories such as *FIBC, Woven Sacks, Woven Fabrics & Tarpaulin* recorded a decline.

★ STATE PROFILE

TOP 10 ITEMS OF PLASTICS EXPORT FROM MADHYA PRADESH

Exports from Madhya Pradesh comprised mainly of value-added plastic products. Its top 10 plastics export items collectively highlight the state's strong position as a global leader in the plastics industry. These products, **valued at USD 422 million**, account for a significant share (87.6%) of the state's total plastics exports during FY 2023-24.

Below are the top exporting plastics products:

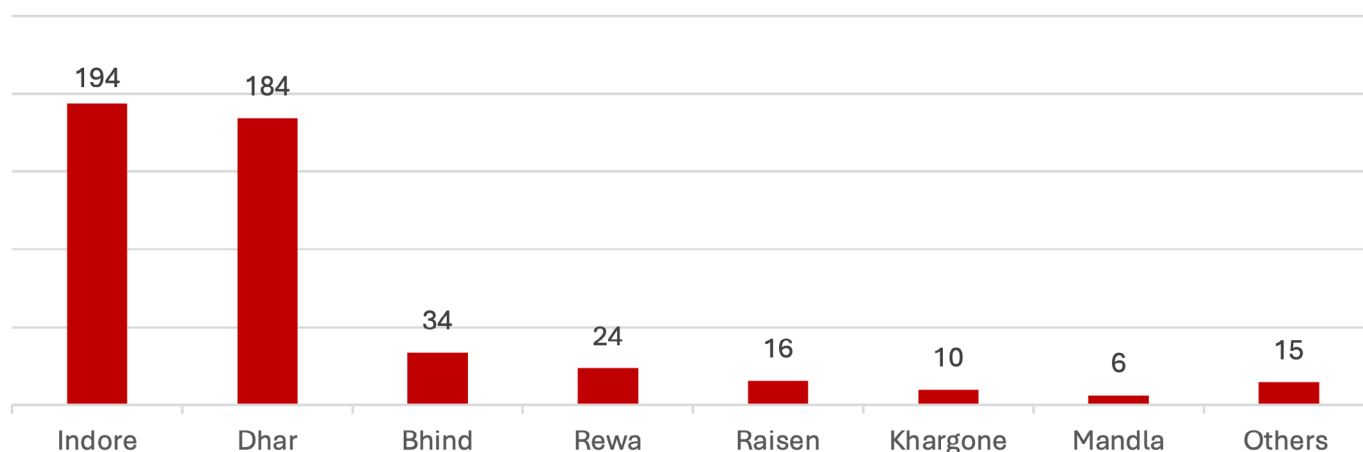
HS code	Product description	Value of Exports (US\$ Mn)
63053200	Flexible intermediate bulk containers	165.70
39206220	Plates, sheets, film, foil and strip, of non-cellular polyethylene terephthalate", not reinforced	92.85
39202020	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene, not reinforced	38.48
39076990	PET Other primary form	34.66
90011000	Optical fibres, optical fibre bundles and cables	22.80
56074900	Twine, cordage, ropes and cables of polyethylene or polypropylene	20.36
39206290	Plates, sheets, film, foil and strip, of non-cellular polyethylene terephthalate	16.75
39219094	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported - Flexible, metallised	14.42
39235010	Caps and closures for bottles	7.95
39202090	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene: Other	7.95

Source: DGCIS, Plexconcil Research

DISTRICT WISE PLASTIC EXPORTS

During 2023-24, Indore, Dhar and Bhind were the three major exporting districts of Madhya Pradesh.

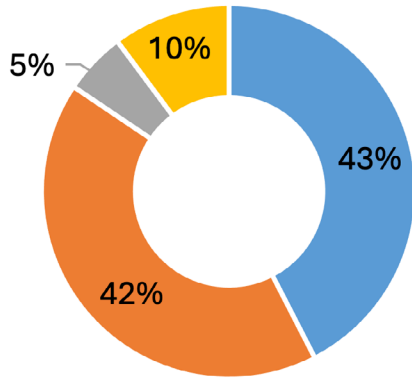
TOP EXPORTING DISTRICTS IN MADHYA PRADESH (USD MILLION)



Source: DGCIS 2023-24, Plexconcil Research

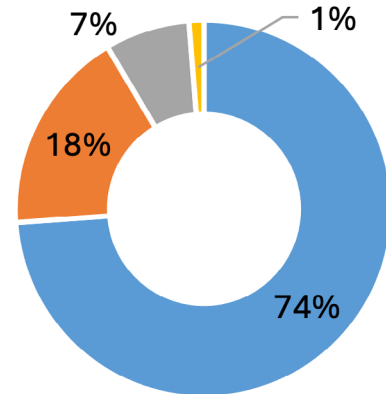
KEY DISTRICTS LEADING THE EXPORT OF VALUE-ADDED PLASTIC AND PLASTICS RAW MATERIALS FROM MADHYA PRADESH

Top Districts Exporting Valued Added Plastics



■ Indore ■ Dhar ■ Rewa ■ Others

Top Districts Exporting Plastics Raw Materials



■ Bhind ■ Indore ■ Dewas ■ Others

Source: DGCIS 23-24, Plexconcil Research

BOOSTING MADHYA PRADESH'S EXPORT SECTOR

Madhya Pradesh is emerging as a growing export hub by leveraging its central location, improving logistics and industrial infrastructure, and promoting diverse manufacturing sectors such as plastics, pharmaceuticals, textiles, engineering goods, and agro-based products. The state is actively encouraging MSMEs through policy support, financial assistance, and capacity-building initiatives, while focusing on product diversification and competitiveness in global markets. These efforts aim to position Madhya Pradesh as a key contributor to India's export growth.

PLEXCONCIL OFFICE FOR MADHYA PRADESH

PLEXCONCIL has 80+ members from the state of Madhya Pradesh. It maintains an office in Mumbai, Maharashtra, to cater to the members based in Madhya Pradesh.

THE PLASTICS EXPORT PROMOTION COUNCIL

Dynasty Business Park, Ground Floor
B-Wing, Office No. 2, Chakala, Andheri East
Mumbai, Maharashtra 400 059

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MALAYSIA

ECONOMIC OVERVIEW

Malaysia, located in Southeastern Asia, occupies a total area of 329,847 square kilometres and is home to a population of 33.5 million, encompassing a peninsula bordering Thailand and the northern one-third of Borneo, which it shares with Indonesia and Brunei. Strategically positioned along vital maritime routes in the South China Sea and close to Vietnam, Malaysia has established itself as a major exporter of electronics, oil, and chemicals. The country's economy is strongly driven by its trade sector, which employs over 40% of the workforce, reflecting its outward-oriented

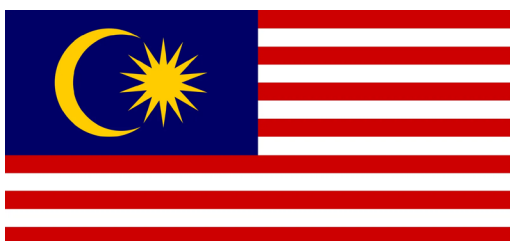
growth model. High labour productivity and equity-driven initiatives have further strengthened Malaysia's competitiveness, while ongoing diversification across industries continues to support sustainable development and economic resilience.

As of September 1st, 2025, Malaysia holds firm investment-grade credit ratings, with Moody's assigning an A3 (Stable) outlook, S&P reporting an A- (Stable) outlook, and Fitch maintaining a BBB+ (Stable) rating.

Economic Indicators		2022	2023	2024
Nominal GDP	USD Billion	408	400	440
Nominal GDP per Capita	USD	12,483	12,091	13,142
Real GDP growth	%	8.9	3.6	4.8
Total Population	Million	32.7	33.1	33.5
Average Inflation	%	3.4	2.5	2.8
Total Merchandise Export	USD Billion	353	313	330
Total Merchandise Imports	USD Billion	295	266	300

Source: IMF, Trade Map





Malaysia is a member of the ASEAN-China and ASEAN-India trade agreements, which strengthen its trade ties across the ASEAN region. In addition, Malaysia has bilateral Free Trade Agreements (FTAs) with Australia, New Zealand, Japan, South Korea, Chile, and several other countries, further enhancing its global trade opportunities.

TRADE OVERVIEW

India and Malaysia share a strong and friendly partnership, built on vibrant economic and commercial ties. In FY 2024-25, bilateral trade between the two countries stood at USD 19.8 billion, with India's exports to Malaysia valued at USD 7.3 billion and imports from Malaysia at USD 12.5 billion.

The major items of export (2-digit HS) from India to Malaysia are distillate oil (USD 2,659 million), turbo jets of a thrust > 25 KN (USD 735 million), boneless meat of bovine animals frozen (USD 618 million) and organic chemicals (USD 257 million). Likewise, major items of export (2-digit HS) from Malaysia to India are crude palm oil and its fractions (USD 2,750 million), digital processing units (USD 2,107 million) and monolithic integrated circuits (USD 1,130 million).

For products that come under the purview of PLEXCONCIL, the trade is largely in favour of Malaysia with exports

of USD 417 million to India while imports from India to Malaysia stand at USD 78 million, leading a substantial trade deficit of USD 339 million for India.

The major items of export to Malaysia are:

- Plastic raw materials (31.1%),
- Plastic films and sheets (20.5%), and
- Floorcoverings, leathercloth & laminates (9.7%)

Malaysia's annual plastics imports are valued at USD 12.0 billion approx. Its plastic imports are largely catered to, by the China (28.9%); Singapore (13.5%) & the United States of America (12.2%). India's market share in Malaysia's plastic import is quite insignificant (0.8%).

EXPORT POTENTIAL FOR INDIA

Based on our internal research, India's export of PLEXCONCIL member products to Malaysia has the potential to grow by USD 7.0 billion. Details of product panels and their export potential to Malaysia is provided below:

Product panel	Malaysia's import from India	Malaysia's import from world	India's export to world	Export potential for India
	USD Million	USD Million	USD Million	USD Million
Plastic raw materials	24.09	5,452.31	3,221.82	2,410.27
Consumer & houseware products	11.78	1,660.65	1,710.21	969.67
Plastic films and sheets	15.95	1,445.31	2,006.44	936.07
Medical items of plastics	9.19	907.63	1,224.64	847.14
Packaging items - flexible, rigid	5.01	404.70	677.24	362.93
Floorcoverings, leathercloth & laminates	8.92	241.85	958.09	201.05
Plastic pipes & fittings	1.25	261.26	331.16	192.21
FIBC, Woven sacks, Woven fabrics, Tarpaulin	4.60	165.28	1,513.61	141.38

Source: Trade Map, Plexconcil Research



The plastics industry is evolving at a rapid clip. Driven by advancements in sustainability, automation, and material science. With an increasing demand for environment friendly productions, newer technology and innovations are reshaping how plastics are designed, produced, and utilized. Whether it is bio-degradable & recycled plastics, or smart data driven manufacturing or more and more stringent compliance requirements, or advancements in polymer chemistry, the industry is going through a process of transformation.

Here are a few of the cutting edge global trends and innovation that is shaping the future of the Plastics Industry.

FROM POLYMERS TO PATIENTS: Plastics in Wearable Tech

Source: *Plastics Engineering*

1

A new generation of conductive plastics allows engineers to print sensors directly onto flexible, skin-like materials, paving the way for a new era of personalized health. Flexible sensing platforms are becoming a breakthrough technology for non-invasive health and exercise monitoring.

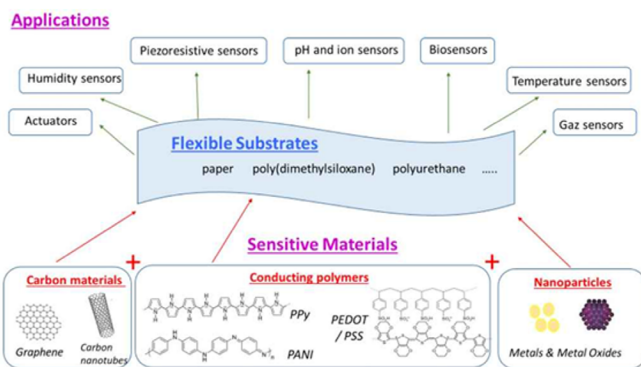
Polymer materials form the foundation of these sensors. Unlike traditional rigid electronics, polymer-based sensors naturally bend and conform to the human body. They also offer biocompatibility and low-cost manufacturing, making them ideal for skin-mounted and disposable devices. The rapid growth of this sector, expected to reach \$9.3 billion by 2025 in healthcare flexible electronics, highlights the value of these material innovations.

THE UNBEATABLE ADVANTAGE OF POLYMERS

These flexible sensors work thanks to two main types of polymer materials: elastomeric substrates and conductive polymers. Elastomeric substrates, like polydimethylsiloxane (PDMS) and thermoplastic polyurethane (TPU), form a soft, flexible base that moves with the human body. Engineers choose them for their biocompatibility, low cost, and lightweight, which make them ideal for disposable or skin-mounted devices.

Conductive polymers usually serve as the active sensing element, offering electrical conductivity and mechanical

flexibility. Materials like polypyrrole, polyaniline, and PEDOT:PSS behave like metals and retain the pliability typical of plastics. This unique combination enables them to act as transducers, as they respond predictably to mechanical stress or chemical exposure. The sensing principle adjusts the polymer's conductivity, which changes precisely when it encounters external stimuli. Developers frequently blend these polymers with advanced materials, such as graphene or metal nanoparticles, to increase sensitivity and electrical performance. These hybrid composites allow researchers to fine-tune detection thresholds and broaden the range of measurable environmental or physical changes.



Key Materials for Polymer-Based Wearables
Courtesy of Flexible Sensors Based on Conductive Polymers

A POLYMER LINEUP

Researchers are leveraging different conductive polymers for specific applications, often in composites that enhance their performance:

Polypyrrole (PPy)

Known for its excellent biocompatibility and stability, PPy is a top choice for devices that come in direct contact with the body. Researchers have developed highly sensitive strain sensors by coating fabrics with an ultra-thin layer of PPy, capable of mapping body motion during exercise. When blended into composites with materials like bacterial cellulose nanofibers, PPy creates remarkably stretchable sensors that can elongate over 350% while detecting a broad range of motion with high sensitivity.

Polyaniline (PANI)

PANI offers high conductivity, and researchers often blend it with elastic polymers to create skin-like sensors. For instance, an interpenetrating network of PU and PANI results in a hydrogel that is not only highly stretchable and sensitive enough to monitor physical activities but is also self-healing and recyclable.

PEDOT:PSS

This polymer is a leader in the field due to its high conductivity, transparency, and stability, making it ideal for

printed electronics and e-textiles. By adding it to inks, engineers can use standard inkjet printers to create stretchable, transparent electrodes for advanced sensor patches. One such patch, printed on a PDMS substrate, can simultaneously monitor both ECG and PPG signals to track heart rate and blood oxygenation.

FROM INKJETS TO 3D PRINTERS

This innovation lies not just in the materials but also in how manufacturers produce them. Advanced manufacturing techniques are making the scalable production of these sensors a reality.

Inkjet and screen printing allow for the rapid, precise deposition of conductive polymer inks onto flexible substrates like plastic films and even textiles. This additive approach is perfect for creating custom-patterned sensor arrays for everything from sweat analysis to environmental gas detection. For example, researchers created a flexible ammonia gas sensor by inkjet-printing a graphene-doped PEDOT:PSS composite film, which showed a threefold increase in response compared to an undoped sensor.

3D printing takes this a step further, enabling the creation of complex, three-dimensional sensor structures from polymer composite inks. This technique allows designers to perfectly tailor sensors to biological shapes, opening the door for hyper-personalized wearable devices that can track finger and arm movements with incredible precision.

SHAPING THE FUTURE OF WEARABLE SENSORS

While the progress is exciting, challenges remain. Researchers are actively working to improve the long-term stability, sensitivity, and selectivity of polymer sensors. At the same time, ensuring that fully integrated systems, with onboard power, data processing, and wireless communication, remain robust, comfortable, and washable is a critical hurdle.

Even with these obstacles, polymer-based flexible sensors stand ready to transform everything from point-of-care health monitoring and fitness training to chronic disease management.

NANO MOLDING:

The Future of Metal-Plastic Integration in Electronics

Source: *Plastics Engineering*

2

As electronics demand slimmer, stronger, and more sustainable designs, Nano Molding Technology (NMT) is emerging as a key innovation.

Nano Molding Technology (NMT) has gained momentum as a key innovation. By combining advanced injection molding precision with the structural advantages of metal-plastic hybrids, NMT unlocks new design flexibility and performance levels.

Driving this advancement, SABIC has launched LNP™ THERMOTUF™ WF0087N—the first flame-retardant PBT-based compound engineered specifically for NMT in consumer electronics.

SABIC'S GAME-CHANGING MATERIAL FOR NMT

SABIC's new LNP™ THERMOTUF WF0087N compound sets a new standard for NMT-compatible materials. This 2025 Edison Award-winning polymer blends polybutylene terephthalate (PBT) with excellent flame retardancy (UL94 V0 at 1.0mm) and high mechanical strength, making it ideal for electronic device components such as antenna splitters, middle frames, and housings in smartphones, tablets, and wearables. Its 60% stronger bond to metal surfaces sets this material apart from traditional flame-retardant PBTs.

This performance leap helps device manufacturers meet strict IP68 water and dust resistance standards while ensuring long-term mechanical integrity. In addition to structural strength, the material offers robust chemical resistance—even against harsh anodizing treatments—and custom colorability for brand-specific finishes. Importantly, its dielectric properties help maintain optimal signal transmission in antenna-rich devices.

HOW NANO MOLDING TECHNOLOGY WORKS

Nano Molding Technology is a hybrid process that chemically and mechanically bonds thermoplastics to treated metal surfaces. Unlike insert molding or adhesive bonding, NMT achieves micro- and nano-scale adhesion by allowing plastic to flow into pre-treated nano-cavities on the metal surface during injection.

This results in a tight, durable bond that eliminates the need for glues or mechanical fasteners, simplifies manufacturing, and enhances product aesthetics.

ADVANTAGES OF NMT: WHERE ENGINEERING MEETS DESIGN

1. Superior Bond Strength

NMT creates mechanically interlocked interfaces between plastic and metal, delivering bonding strength significantly higher than insert molding. SABIC's compound further strengthens this connection, making the joint more resilient under mechanical and thermal stress.

2. Lightweight and Thin-Walled Designs

By allowing plastic components to replace heavier metal parts without sacrificing structural performance, NMT supports the trend toward slimmer, lighter devices. The process enables thin-wall applications critical for next-gen consumer electronics.

3. Radio Frequency Transparency

One of the standout benefits of NMT is that the plastic layer remains transparent to RF signals, enabling high-performance antenna placement while maintaining structural support from metal components. This makes it perfect for multi-antenna smartphones and smartwatches.

4. Enhanced Durability and Environmental Resistance

SABIC's material supports IP68-rated designs, and the NMT process helps protect internal electronics from moisture and dust, increasing the product's lifespan. This is crucial in rugged consumer and industrial devices.

5. Streamlined Manufacturing

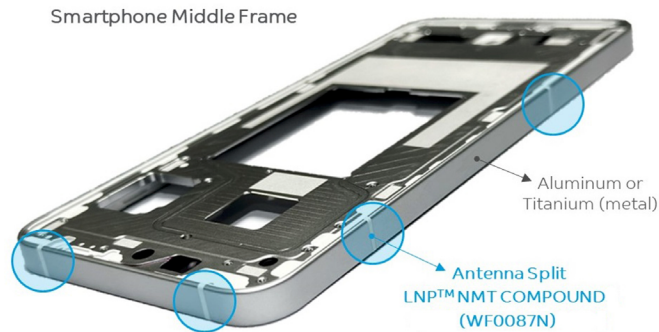
With NMT, manufacturers eliminate secondary operations like adhesive application or overmolding, reducing production time and cost. The result is a cleaner, faster, and more scalable workflow compared to CNC machining or die casting.

6. Precision and Material Versatility

NMT works with a range of metals—aluminum, stainless steel, magnesium—and compatible polymers like PBT, PC, PPS, and PA. It also enables fine detail replication, suitable for electronics, medical devices, and automotive interiors.

REAL-WORLD POTENTIAL AND FUTURE APPLICATIONS

SABIC’s breakthrough with LNP™ THERMOTUF WF0087N proves that NMT is no longer just an innovation for R&D—it’s a manufacturing solution ready for high-volume production. As smartphones, wearables, and IoT devices grow more complex, NMT will become a go-to process for integrating performance and style.



SABIC is introducing a new, flame-retardant LNP™ THERMOTUF™ compound used in nano molded components of consumer electronics.
 Courtesy of SABIC

By solving the challenges of strength, aesthetics, RF performance, and miniaturization in a single step, Nano Molding Technology offers a smarter path forward for the plastics and electronics industries alike.

**FROM CRUDE TO CRUST:
 The Oil-Plastic Price Connection**

Source: Plastics Engineering



Petroleum is the primary feedstock for plastic production, so fluctuations in oil prices significantly impact manufacturing and supply chain costs. Crude oil is the foundation of plastic production, supplying key derivatives like ethylene and propylene, which form the backbone of plastic resins. This makes their pricing sensitive to oil market fluctuations. Understanding this relationship helps industry players anticipate cost trends and navigate market volatility.

ETHYLENE PRICING AND OIL MARKET DYNAMICS

Ethylene, a fundamental building block of plastic production, directly responds to oil price movements. In regions where naphtha serves as the primary feedstock, such as Europe and Asia, oil price changes immediately affect ethylene costs.

According to research from King Fahd University of Petroleum and Minerals on ethylene markets, crude oil prices are correlated with ethylene prices, particularly in regions where naphtha serves as the primary feedstock.

North America presents a different scenario. Ethylene production in this region primarily relies on ethane, a natural gas byproduct. As a result, North American ethylene

prices demonstrate less volatility in response to oil market shifts. However, the growing influence of U.S. crude oil in global energy markets has started to increase the region’s exposure to broader oil price trends.



REGIONAL SENSITIVITIES AND ETHYLENE COST DISPARITIES

Not all markets react uniformly to oil price changes. In Asia, strong demand from China and South Korea stabilizes ethylene prices, making them less dependent on crude oil fluctuations. In contrast, Europe, and the Mediterranean exhibit a stronger link between crude oil and ethylene costs, primarily due to their reliance on naphtha.

West Texas Intermediate (WTI) crude oil has emerged as a major driver of global petrochemical costs. Research published in Energy Economics highlights that WTI prices increasingly influence ethylene pricing worldwide, reinforcing the role of U.S. energy markets in shaping international plastic production costs.

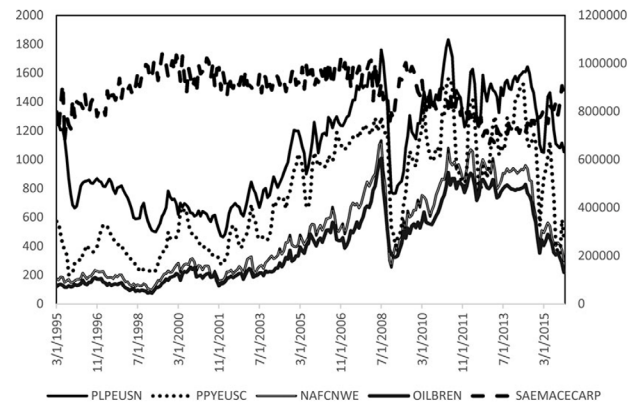
DOWNSTREAM DEMAND AND MARKET STRATEGIES

While oil prices shape production costs, downstream demand also plays a crucial role in determining ethylene and propylene pricing. Industries such as automotive, construction, and packaging influence demand trends, creating additional price fluctuations.

In Europe, PP prices closely follow automotive manufacturing trends, given the material's extensive use in vehicle components. In Asia, packaging, and film production drive PP demand, making consumer spending patterns and regulatory policies key price determinants. Polypropylene and propylene prices trade at a higher level in Europe than in Asia, indicating the higher supply cost of propylene compared to Asia.

To navigate price volatility, producers and consumers must adopt strategic risk management practices. Long-term supply agreements for naphtha and propylene can stabilize input costs, while investments in alternative feedstocks offer greater flexibility. Financial hedging tools and dynamic pricing contracts also provide protection against sudden market shifts.

Ethylene and crude oil prices relation 2000-2006
Courtesy of Energy Economics



Courtesy of The Energy Channel

PROPYLENE AND POLYPROPYLENE: OIL'S IMPACT ON PRICING

Propylene, another key plastic derivative, derives from naphtha cracking, a process highly dependent on crude oil prices. Fluctuations in oil markets directly affect naphtha costs, which, in turn, influence propylene and polypropylene (PP) pricing. However, the transmission of oil price changes to PP markets varies by region.

In Northwest Europe, PP prices closely track crude oil and naphtha fluctuations due to the region's reliance on naphtha-based steam cracking. Conversely, Southeast Asia benefits from diverse feedstocks, including propane dehydrogenation (PDH) and refinery-based propylene production. This diversity shields the region from direct crude oil price volatility, stabilizing PP pricing.

Link between the various petrochemical prices, naphtha, and crude oil in Europe. To maintain consistency, the conversion adjusted all prices, including crude oil, from \$US/BBL to \$US/MT.



NEW HIGH-STRENGTH PLASTIC: Promises Endless Recycling Without Losing Quality

Source: *Interesting Engineering*

4

Heat-resistant and recyclable, the new plastic could transform aerospace, medical, and electronics manufacturing with longer lifespans and lower waste.

Modern engineering demands materials that do more than just hold their shape. They must be lightweight yet stronger than steel, capable of withstanding extreme heat, and resilient enough to recover from damage without losing performance.

In industries like aerospace, defense, and automotive, such materials can mean safer vehicles, longer service life, and less environmental waste. Researchers at Texas A&M University have now moved closer to that goal. They have uncovered new capabilities in Aromatic Thermosetting Copolyester (ATSP), an ultra-durable, recyclable plastic that can heal itself, recover its shape, and maintain strength across repeated use.

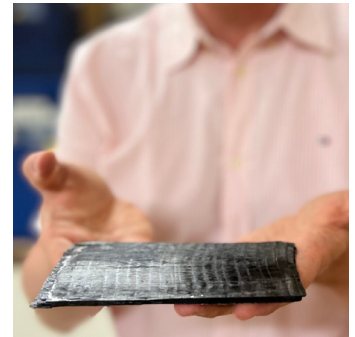
The discovery could set new benchmarks for reliability and sustainability in high-performance manufacturing. Backed by the U.S. Department of Defense, the project brought together aerospace engineering and materials science specialists from Texas A&M and the University of Tulsa. Built for demanding conditions, Aerospace engineering professor Dr. Mohammad Naraghi led the work alongside the University of Tulsa's Dr. Andreas Polycarpou.

They studied ATSP's performance under extreme stress, heat, and repetitive damage. Naraghi noted that aerospace materials must endure high temperatures and impacts without compromising safety.

The bond exchanges within ATSP allow it to "perform on-demand self-healing" when damaged. The material also shows promise in cars. Its ability to regain shape after collisions could improve passenger safety and reduce the need for part replacements. Unlike traditional plastics, ATSP can be recycled repeatedly, making it attractive to industries aiming to cut waste without sacrificing performance.

Naraghi explained that reinforced ATSP can be crushed, remolded, and reused across many cycles without losing its chemistry or durability. When paired with carbon fibers, ATSP becomes several times stronger than steel while remaining lighter than aluminum. This combination

of strength and lightness makes it a prime candidate for high-performance applications where every kilogram matters.



Dr. Mohammad Naraghi showcasing ATSP, the carbon-fiber smart plastic.

Credit: Dr. Mohammad Naraghi/
Texas A&M University College of Engineering

TESTING DURABILITY AND RECOVERY

The team used cyclical creep testing to see how ATSP stores and releases strain energy during repeated stretching. They identified two key temperature points: the glass transition temperature, when polymer chains move more freely, and the vitrification temperature, when bonds activate enough to enable reshaping and healing.

In deep-cycle bending fatigue tests, samples were heated to 160 °C to trigger repairs. ATSP endured hundreds of stress-heating cycles and even improved in durability after healing. Naraghi likened the process to skin that can stretch, heal, and return to its original shape.

In a tougher trial, the material went through five severe damage-heating cycles at 280 °C. After two cycles, it returned to nearly full strength. By the fifth, efficiency dropped to about 80% due to mechanical fatigue, but chemical stability remained intact. Imaging showed the healed composite closely matched its original structure, with only minor wear from manufacturing defects. The research was funded by the Air Force Office of Scientific Research (AFOSR) and conducted with ATSP Innovations. Naraghi credited these partnerships with guiding the project and helping to turn research curiosity into practical applications.



NFR, IIT GUWAHATI TEAM UP

To Develop Biodegradable Alternatives To Plastics

Source: *Business Standard*

The Northeast Frontier Railway (NFR) and IIT-Guwahati have collaborated to introduce biodegradable and compostable materials as a replacement for conventional plastic to ensure environmental sustainability, officials said.

As a pilot initiative, NFR has introduced eco-friendly green bed-roll bags on its trains, replacing traditional plastic bags used for distributing linen to passengers.

Developed at IIT-Guwahati's in-house research and development facility, the bio-plastic degrades in compost within a short time, according to an official release.

It was formally rolled out on August 15 with around 40,000 such bags to be distributed across 25 trains originating from terminals in Assam, West Bengal, Bihar, Tripura and Arunachal Pradesh, it said.

The initiative not only enhances passenger convenience, but also contributes towards reducing landfill waste, lowering the carbon footprint and conserving natural resources, the release said.

The collaboration with IIT-Guwahati, coupled with NFR's eco-friendly measures, marks a practical and scalable approach towards greener railway operations, it said.

Among other measures, NFR has implemented rapid railway electrification, solar energy generation, AI-based intrusion detection systems to safeguard elephants and others, rainwater harvesting, automatic coach washing plants and bio-toilets, the release added.

(Only the headline and picture of this report may have been reworked by the Business Standard staff; the rest of the content is auto-generated from a syndicated feed.)

NGT ISSUES NOTICES

On Alleged Plastic Waste Violations By Tobacco Brands

Source: *Hindu Businessline*

The CPCB had instructed the defaulting companies to submit a timeline for switching to sustainable materials and to pay Environmental Compensation (EC) with interest for any delays.

The National Green Tribunal (NGT) issued notice on a plea from The Citizens Foundation, which alleges widespread non-compliance with the Plastic Waste Management Rules, 2016, by manufacturers of gutkha, pan masala, and

tobacco products. The petition claims that banned plastic packaging materials are still being used and calls for strict enforcement of existing regulations. This includes the closure of units violating the rules and the recovery of environmental compensation.

A judicial bench led by Justice Prakash Shrivastava and Expert Member Dr. A. Senthil Vel has issued notices to relevant authorities, including the Central Pollution Control

Board (CPCB) and the Delhi Pollution Control Committee (DPCC), seeking their responses.

Counsel for the petitioner pointed out that, despite the CPCB's earlier directives, issued on October 22, 2021, under the Environment (Protection) Act, 1986, to 25 manufacturers to halt operations unless they adopted eco-friendly packaging, these directives remain unimplemented.

The CPCB had instructed the defaulting companies to submit a timeline for switching to sustainable materials and to pay Environmental Compensation (EC) with interest for any delays.

The plea highlights violations of Rules 4(f) and 4(i) of the 2016 Rules, which prohibit the use of plastic sachets and specific polymers in packaging gutkha and related products. CPCB's previous reports suggested that such non-compliance could result in stern penalties, including seizure of goods, shutting down of factories, and levies of Rs 5,000 per ton of plastic used. Repeat offences could attract additional fines of up to Rs 20,000 per ton.

The applicant also cited a CPCB report from January 2021, which outlines enforcement under the Extended Producer Responsibility (EPR) regime. According to this, delayed EC payments could be penalised with annual interest ranging from 12 per cent to 24 per cent. Delays exceeding three months could lead to factory closures and criminal prosecution under Section 15(1) of the Environment Protection Act.

Recognising the gravity of the environmental concerns raised, the NGT has scheduled the next hearing for September 26, 2025. The applicant must serve notices on the remaining respondents and file an affidavit of service one week prior to the scheduled date, as stated by the Tribunal. (ANI)



GGVL RELAUNCHES V21 VODKA In 100% Recycled PET

Source: *Hindu Business Line*

This move comes at a time when India generates approximately 3.4 million tonnes of plastic waste every year

Madhya Pradesh-based Great Galleon Ventures Limited (GGVL) has relaunched its homegrown vodka brand, V21, in 100% rPET (Recycled Polyethylene Terephthalate). The company claims it is one of the first spirit brands in India to use certified, food-grade recycled plastic.

The new V21 comes in a 180ml flask that is said to be shatterproof and reduce environmental impact compared to virgin PET. According to the company, every production cycle of V21 in rPET saves over 5.7 million litres of water, the equivalent energy of powering Chandigarh for a day, and prevents 138.7 tonnes of CO2 emissions.

This move comes at a time when India generates approximately 3.4 million tonnes of plastic waste every year, with less than 30% effectively recycled. By shifting to rPET, GGVL is demonstrating how circular packaging can reduce solid waste by 42%.

"This isn't a one-off. We asked ourselves — what if the future of spirits wasn't just about better liquid, but smarter choices? That question is closely aligned with how today's



consumers, especially Gen Z and millennials, are thinking. 62%+ of Indian consumers say they prefer brands with clear sustainability commitments. The relaunch of V21 is part of our broader sustainability charter, Bold Planet, which is driving real, systemic change across our portfolio — from eliminating mono-cartons on our premium products to investing in sustainable inks, recycled label papers, and circular production models. The goal isn't to retrofit sustainability onto a product — it's to design for it from the very beginning. And we're excited to lead that shift," says Utsav Kedia, Vice President - Business Growth, Great Galleon Ventures Limited.

Founded in 1985, GGVL is a modern Indian spirit company that specialises in Bottle Manufacturing, ENA and Ethanol production, IMFL Manufacturing and Contract Manufacturing. Its product portfolio includes brands like V21 Vodka, Rascal RTDs and Bigg Bull Rum.

↑ ROSTI EXPANDS INDIA FOOTPRINT With Chennai Molding Facility

Source: *Plastic News*

Rosti Group is expanding in India ahead of schedule, signing an extension for its new injection molding facility in Chennai before the original plant is even complete. The 80,000-square-foot expansion will allow the Sweden-based custom molder and contract manufacturer to house up to 45 injection molding machines with clamping forces from 35 to 500 tons. Production is scheduled to begin by November 2025.

"This opportunity strengthens our footprint in Asia and enhances our ability to deliver for customers worldwide," said Pat Williams, senior vice president for Rosti Asia. Initially, the site will employ 100 workers, with plans to double the workforce within two years.

Rosti is positioning India to be a central piece of its Asia growth strategy. The Chennai site will join a regional network including the company's existing plants in China and Malaysia.

Rosti, founded in 1944 and headquartered in Malmö, is owned by investment firm Nordstjernan. The company operates plants in Europe, Asia and the United States — including locations in Wisconsin, North Carolina and Utah — and serves packaging, medical, consumer appliances and industrial equipment customers.

The U.S. plants were acquired from Plastic Components Inc. in 2022.



RE-SHAPING WASTE MANAGEMENT

IT Bhilai Researchers Develop New Method To Recycle Pet Plastic

Source: Times Of India

Researchers at IIT-Bhilai have developed a cost-effective, eco-friendly method to recycle poly ethylene terephthalate (PET) plastic using a reusable nano iron catalyst. The process converts PET waste into its original monomer under mild conditions, eliminating the need to separate bottle caps from bottles and enabling true circular recycling. Backed by govt support, the team has filed a patent and is working with industry to scale up the innovation. This discovery could reshape plastic waste management.

The research team, which includes Priyank Sinha, Sudipta Paul, Swarup Maity, and Dr Sanjib Banerjee from the department of chemistry, designed a selective depolymerisation protocol. This process transforms PET waste into its high-value monomer, bis(2-hydroxyethyl) terephthalate (BHET). They used a magnetically recoverable nano zero-valent iron (nZVI) catalyst for this process. Unlike existing mechanical and chemical recycling methods, which often downgrade the plastic or require high energy input, the IIT Bhilai innovation works efficiently under mild conditions. The method is also cost-effective and environmentally sustainable, said Dr Sanjiv Banerjee.

The catalyst can be recovered magnetically and reused multiple times without any loss of activity.

This minimises secondary pollution and reduces energy demand. It also enables the production of a higher-grade PET from the recovered BHET, he said.

“With our approach, PET can be recycled in a truly circular manner, creating a closed-loop system rather than down-cycled products,” the researchers said.

Supported by the Department of Scientific and Industrial Research-Centre for Research and Technical Development in Human Resources (DSIR-CRTDH), Government

of India, and IIT Bhilai, the team is now working with an industry partner to design a prototype recycling machine suitable for both small- and large-scale applications, they said.



Dr. Banerjee said the new design is cost-effective for industries. Several industries have also approached the team. “Under the existing recycling system, a plastic bottle and its cap, which are made of different plastics, have to be segregated and recycled separately. This costs the industry more time and money,” Dr. Banerjee explained.

“In our case, segregation of the cap and bottle is not required, and a new product can be obtained directly.” The team has filed a patent for the process.

Globally, around 350 million tonnes of plastic waste are generated annually, with PET bottles accounting for a large share. Since PET takes centuries to degrade, this discovery offers a much-needed sustainable alternative, Dr Banerjee said.

INTERNATIONAL EXHIBITIONS

Sr. No.	Event Name	Date	Month	Year	City	Country
1	Propak West Africa 2025	09-11	September	2025	Lagos	Nigeria
2	Vietnam Print Pack	10-13	September	2025	Ho Chi Minh City	Vietnam
3	PRS Middle East & Africa 2025	15-17	September	2025	Dubai	UAE
4	Vietnam Plas 2025	17-20	September	2025	Ho Chi Minh City	Vietnam
5	Plastex Uzbekistan	23-25	September	2025	Tashkent	Uzbekistan
6	Powtech 2025	23-25	September	2025	Nuremberg	Germany
7	K-2025	08-15	October	2025	Dusseldorf	Germany
8	Bioplastics Business Breakfast K'2025 (Hybrid)	09-11	October	2025	Dusseldorf	Germany
9	Expo Cihac	15-17	October	2025	Ciudad De Mexico	Mexico
10	Mexi Mold	22-23	October	2025	Queretaro	Mexico
11	Myanmar Plas Print Pack	16-19	December	2025	Yangon	Myanmar
12	Plastex Egypt	11-16	January	2026	Egypt	Egypt

★ WHY BECOME A PLEXCONCIL MEMBER? ★



Established since 1955, the Plastics Export Promotion Council, PLEXCONCIL, is sponsored by the Ministry of Commerce and Industry, Department of Commerce, Government of India. **PLEXCONCIL is a non-profit organization representing exporters from the Indian plastics industry and is engaged in promoting the industry exports.**

The Council is focused on achieving excellence in exports by undertaking various activities and initiatives to promote the industry. The Council undertakes activities such as **participation at international trade fairs, sponsoring delegations to target markets**, inviting foreign business delegations to India, organising buyer-seller meets both in India and the overseas etc.,

The Council also routinely **undertakes research and surveys, organizes the Annual Awards to recognize top performing exporters, monitors the development of new technology** and shares the same with members, facilitates joint ventures and collaboration with foreign companies and trade associations as well as represents the issues and concerns to the relevant Government bodies.

The Council represents a wide variety of plastics products including - Plastics Raw Materials, Packaging Materials, Films, Consumer Goods, Writing Instruments, Travel ware, Plastic Sheets, Leather Cloth, Vinyl Floor Coverings, Pipes and Fittings, Water Storage Tanks, Custom made plastic Items from a range of plastic materials including Engineered Plastics, Electrical Accessories, FRP/GRP Products, Sanitary Fittings, Tarpaulins, Laminates, Fishing Lines/Fishnets, Cordage/Ropes/Twines, Laboratory Ware; Eye Ware, Surgical/Medical Disposables.

MEMBERSHIP BENEFITS

- **Subsidised rates** at International Trade Fairs and Exhibitions
- **Financial benefits to exporters**, as available through Government of India
- Disseminating **trade enquiries/trade leads**
- Instituting **Export Awards** in recognition of outstanding export performance
- **Assistance on export financing** with various institutions and banks
- **Networking opportunities** within the plastics industry
- **Special price** for Dun & Bradstreet's DUNS Registered Solution, Global Profiler, and ESG Report
- **Issuance of Certificate of Origin (COO)** & Export turnover certificate.
- Advocating policy related issues.
- Organizing **Buyer seller meets (BSM)** in targeted markets / Reverse buyer seller meets (RBSM) in India.
- Addressing members' **day-to-day export operation issues with relevant authorities** and striving for resolution.
- **Compiling, analysing plastics export data, and sharing insights with trade members.**
- Any other activity based on the need of the member exporters.



★ NEW MEMBERS FOR THE MONTH OF AUGUST 2025

Sr. No	Name Of The Company	Address	City	Pin	State	Email
1	A.R.Pipes	5/263-1, Sarkar Paalam, Thumbipadi Sakkarachettipatti Post Kadayampatti Taluk Salem Salem Tamil Nadu 636305	Salem	636305	Tamil Nadu	info@arpipes.com
2	Alliance Flexibles Private Limited	137-138 Industrial Area Jhotwara, Jaipur,	Jaipur	302012	Rajasthan	navratan.goyal@spplgroup.com
3	Aries Medtek Private Limited	House No. 8, Road No.26, East Punjabi Bagh,	New Delhi	110026	Delhi	accounts@mediplusindia-td.com
4	Barrco Ventures Private Limited	Second Floor, Office No.53, Plot 113, 31& 34/433 Aggarwal Chamber, Veer Savarkar Block, Shakarpur, East,	New Delhi	110092	Delhi	office@barrcoventures.com
5	Botcaps Packaging Private Limited	Plot No.6, Swastik Industrial Estate, Changodar Bavla Highway,Sari,	Sanand	382220	Gujarat	punit@ganeshpet.com
6	Brand Concepts Limited	The Summit Business Park Premises Co-Op Soc Ltd, Prakashwadi, Behind Guru Nanak Petrol Pump Gundavali Andheri-East	Mumbai	400093	Maharashtra	mohan.gupta@brandconcepts.in
7	Buenostar Enterprise India Private Limited	Ground Floor, Shed C And D, No. 138/2, 135/2, Shane Industrial Park, Mappedu Village, Perambakkam, Tiruvallur, Thiruvallur, Tamil Nadu, 631402	Thiruvallur	631402	Tamil Nadu	buenostar23@gmail.com
8	D2k Packaging Private Limited	Gat No. 360, Plot No. 35, Near Bsnl Tower Ambethan Road, Wmidc, Kharabwadi	Chakan	410501	Maharashtra	vijay.duseja@d2kpackaging.com
9	Deepak Advanced Materials Limited	3 Rd Floor, Fermenter House, Alembic Avenue Road Alembic City,	Vadodara	390003	Gujarat	nadesai@godeepak.com
10	Deepak Houseware & Toys Limited	G-1056 Phase-ii, Riico Industrial Area Bhiwadi, Alwar,	Alwar	301019	Rajasthan	imports@urbantots.in
11	Dohrnii Exim Private Limited	No.13/6,2nd Main, Khm Block, Ganganagar, R T Nagar,Bangalore, Bengaluru Urban, Karnataka, 560032	Bengaluru	560032	Karnataka	gulnar.c@gmail.com
12	G Polyplast Industries Private Limited	Plot No: 3319,3320,3319/1, Chemical Zone, G I D C, Sarigam, Umargam,	Valsad	396155	Gujarat	info@gpolyplast.com
13	Gabbar Industries Private Limited	Plot No. 3606, 1, Krishna Industrial Estate G.I.D.C., Phase - Iv, Vatva	Ahmedabad	382445	Gujarat	sales@gabbarindustries.com
14	Goodwin Exim Private Limited	146, Victoria Street Victoria Extension Road Tuticorin Tuticorin Tamil Nadu 628002	Tuticorin	628002	Tamil Nadu	admin@goodwin-global.com
15	Gravipack	Flat No E-18, Yogi Vihar Soc., Near Balaji Temple, Amla, Silvassa	Silvassa	396230	Dadra & Nagar Haveli And Daman & Diu	nknilesh257.nk@gmail.com
16	J&K Global	24 B/A B/B First Floor Archana Industrial Estate Rakhial Road, Nr. Ajit Mill Char Rasta	Ahmedabad	382445	Gujarat	pateldharm001@gmail.com
17	Jmj Global	Ground Floor, Plot No. 29, Hariom Industrial Park Dargah Pirana Road Near Pirana Gate, Paldi Kankaj, Bareja	Ahmedabad	382425	Gujarat	info.jmjglobal@gmail.com
18	Jolly Plast Packaging Private Limited	16/B, Nirmal Building, 16th Floor, Barrister Rajni Patel Marg Nariman Point,	Mumbai	400021	Maharashtra	rituraj.sharma@jolly.in

★ NEW MEMBERS FOR THE MONTH OF AUGUST 2025 ★

Sr. No	Name Of The Company	Address	City	Pin	State	Email
19	Jolly Tech Packaging Private Limited	Survey No. 739/740, Kalaria, Dabhel, Nani Daman,	Daman	396210	Dadra & Nagar Haveli And Daman & Diu	rituraj.sharma@jolly.in
20	K G Plast Mfg Private Limited	802-803, Gditi Towers, B-8, Netaji Subhash Place, Pitampura	Pitampura	110034	Delhi	raaghvajain@kgplast.com
21	K K Fish Nets	7/122a, Chakkapattu Manavalakurichi Po, Kanyakumari District Kanyakumari Tamil Nadu 629252	Kanyakumari	629252	Tamil Nadu	kkfishnetsrobinson@gmail.com
22	K. H. Pipes Private Limited	Gidc - 2, Plot No. 350/B,	Jamnagar	361004	Gujarat	export@bandhanpipes.com
23	Lnj Greenpet Private Limited	Lnj Greenpet Private Limited Uniara Road Ghans Tonk,	Tonk	304001	Rajasthan	mk.yogi@lnjbhilwara.com
24	Maanas International	Flat Numer 55, Labour Colony,	Mandsaur	458001	Madhya Pradesh	maanasinternational@gmail.com
25	Machines Boucherie India Private Limited	2ec-902, 2e Cross, 9th A Main Kalyan Nagar, 1st Block, Banaswadi Contact No: 25427266, Bangalore,	Bengaluru	560043	Karnataka	info@boucherieindia.com
26	Malsons Polymers Pvt Ltd	56e Hemanta Basu Sarani, Stephen House, 4 Th Floor, Room No-57 Abc,	Kolkata	700001	West Bengal	info@malsonspolymers.com
27	Manuma Polymers	Plot No-L-04, Nr, V-Sector, M.I.D.C, Near Ajanta Road,	Jalgaon	425003	Maharashtra	rajaninarkhede55@gmail.com
28	Neelkanth Enterprise	B-41, Zodiac Aster, Opp. Ahmd International School Bodakdev	Ahmedabad	382445	Gujarat	info@worldofpetjar.com
29	New Style International	Near Pnb Bank Nh 119, Kaithora Miranpur, Muzaffarnagar	Muzaffarnagar	251315	Uttar Pradesh	newstylecontacts@gmail.com
30	Pooja Plast Private Limited	Plot No. 781, Rakanpur,	Kalol	382721	Gujarat	nikesh@poojaplast.com
31	Pr Meditech	Khasra No.278 Aimnabad Near Shani Mandir, Aimnabad Village, Greater Noida, Gautam Buddha Nagar,	Gautam Buddha Nagar	201318	Uttar Pradesh	amitkumar68816@gmail.com
32	Preferred Packaging India Private Limited	Floor No.: First Floor Building No./ Flat No.: New Survey No. 785 Behind Zero Tax Industrial Estate Road/Street: Dungra	Dadra	396193	Dadra & Nagar Haveli And Daman & Diu	preferredpackagingindiaptvttd@gmail.com
33	Provac International Llp	33 Floor, West, 3303, Lodha Venezia, Dr G D Ambedkar Marg, Kala Chowki,	Mumbai	400033	Maharashtra	provacillp@gmail.com
34	Rope Enterprise	Plot No. 5, Survey No.103, Paiki 1, Saragwada Road, Dolatpara	Junagadh	362037	Gujarat	ropeenterprise@gmail.com
35	Singhals Flexi Pack	E-39a, Riico Industrial Area, Bassi Ext., Bassi,	Jaipur	303301	Rajasthan	singhalsflexipack@gmail.com
36	Sr Rope Private Limited	Survey No. 39p4/P2 Rajkot - Morbi Highway At - Mitana	Tankara	363650	Gujarat	srrope25@gmail.com
37	Ssf Polymers Private Limited	4261/3, 2nd Floor Jai Mata Market Budh Nagar, Tri Nagar North	Delhi	110035	Delhi	ssfpolymers@gmail.com
38	Suraj Plastic Industries	5746/81 Reghar Pura Karol Bagh, Central New Delhi	Delhi	110005	Delhi	info@surajplasticindustries.com
39	Swamisamarth Agro Biotech Llp	Plot No.1, Chavat Plot, Gat No. 872, Kadamwakhvasti, Pune Solapur Road, Ta- Haveli	Pune	412201	Maharashtra	director@vihanagri.com
40	Uni Linc India Private Limited	Block E & F, Building No 05 Plot No 28 To 45, Gidc Mandal Industrial Estate Gidc, Japanese Industrial Zone Mandal Taluka,	Ahmedabad	382120	Gujarat	prod.supply001@unilinc.co.in
41	Urban Novelties	34b, Ananda Palit Road,	Kolkata	700014	West Bengal	noveltiesurban@gmail.com