

PLEXCONCIL - The Plastics Export Promotion Council

# PLEXCONNECT<sup>TM</sup>

Edition 18, December 2020

## Plexconcil Exports – Regional Perspectives

Why do EPCs Matter

Molecular Plastics Recycling

Product of the Month  
– LDPE





THE PLASTICS EXPORT  
PROMOTION COUNCIL

65  
years

1955-2020  
Empowering Lives through Plastics

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THE PLASTICS EXPORT  
PROMOTION COUNCIL

PLEXCONCIL - The Plastics Export Promotion Council

# PLEXCONNECT<sup>®</sup> 2021

VIRTUAL BSM

**01 TO 03** 2021  
**FEBRUARY**

## WITH WANA REGION

*Proposed Countries Oman, Algeria & Saudi Arabia*

In its commitment to promote India's Plastics Exports and support the manufacturer and exporters extend their global outreach and grow their business, Plexconcil will host the **Plexconnect 2021 Virtual B2B (Buyer-Seller Meet)** with importers and buyers from **Oman, Algeria & Saudi Arabia (proposed countries)**.

### FOCUS SECTORS (Identified based on global imports):

PET Preforms, Caps & Closures | Houseware | Plastic Pipes & Fittings | Plates, Sheets & Films | Packaging Items | Floor Coverings & Leather Cloth | Raw Material including Masterbatches | Office & School Supplies | Moulded & Extruded Products | Writing Instruments

## APPLICATION FORM

Name & Address of the Company	
IEC No	
Products Manufactured & Exported (Please attach high resolution images of your products)	
Name of the Directors	
Mobile No / E-Mail / Telephone No	
Membership Renewal for 2020-21 (Yes/No)	

**Online platforms  
will be open  
for 3 days**

**Participation  
Charges:**

For the 3-days event,  
participation charges

**Members - Rs.  
15,000/- + GST**

**Non-Members - Rs.  
20,000/- + GST**

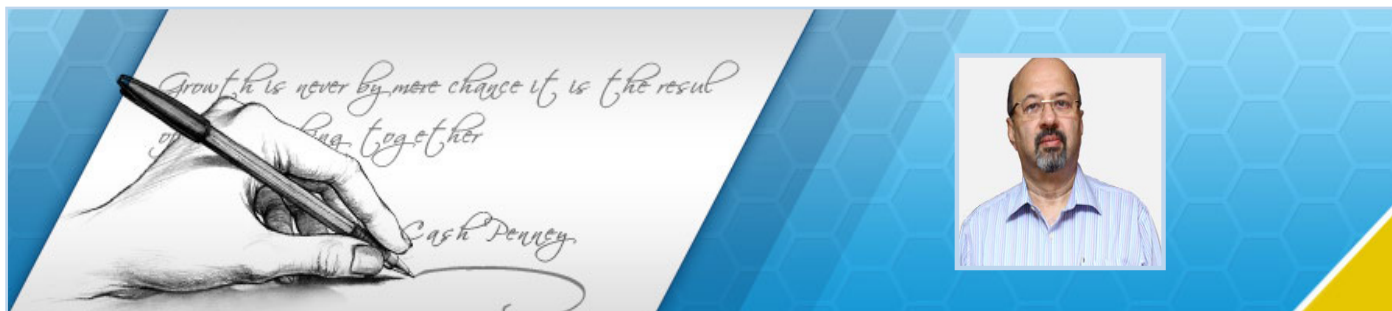
Interested members  
may apply with  
details on or before  
December 18, 2020.

### Application

Interested members are requested to fill-in the application form and email the same with product images to [nilotpal@plexconcil.org](mailto:nilotpal@plexconcil.org) on or before December 18, 2020.

### For Information

Contact Mr. Nilotpal Biswas  
+91 93310 78058



As we come to the end of this pandemic marred year, it would be safe to say that despite the economic slow-down and all the other challenges thrown our way, exports have shown much operational resilience, its revival in September marking increase in demand. However, though the stabilisation and growth of Indian exports is good news, the headwinds are hardly over.

In the past weeks, exporters have been facing increased challenges as the global shipping is yet to fully normalise. Though the global shutdown is gradually lifting, a shortage of shipping containers has been causing major hurdles in export operations. This has led to significant hike in freight costs out of India to major global ports. With the air traffic also normalising slowly, the throughput capacity has been throttled. The Council has been in discussions with the Commerce Ministry officials and efforts are being made to resolve the issue of increased freight costs and high demurrage charges exporters are currently bearing. Longer customs clearance times, which have gone up from the usual 15 to 20 days to 25 to 30 days now have further impacted logistic schedules and while the new processes put in place by the government are yet to fully stabilise, it has caused near-term pain. As most of us know, prices of polymers, both globally and domestically has significantly increased, being between 19-60%, and this has lent a blow to the domestic processing industry and exports.

During October 2020, India exported plastics worth USD 813 million, down 2.7% from USD 836 million in October 2019. Cumulative value of plastics export during April 2020 – October 2020 was USD 5,582 million as against USD 6,017 million during the same period last year, registering a negative growth of 7.2%.

As the representative body for the trade, while our goals remain fixed on working towards growth and the USD 25 Billion target by 2025, we are also actively pursuing resolution of the numerous issues such as freight and raw material cost with relevant authorities, being two of the most significant cost components to exports. Strategies and plans are being aligned to promote growth and help exporters with their business outreach.

In this issue, we have quite an interesting mélange of topics. We bring you regional perspectives on plastic exports, the importance of having EPCs to represent industry segments, future of sustainability, introduction of our recently formed Regional Committee in Gujarat, India's Top Exporting state, introduction of our Youth Committee from North and South Regions and more.

While uncertainties and challenges continue to loom, news of an earlier than expected vaccine launch will hopefully change the tide for our economies. Even if we are to end the year on a sombre note, we are ever hopeful that the year 2021 will bring with it renewed energy and optimism and we wish everyone a robust and prosperous year ahead.

**Warm Regards,**

**Ravish Kamath**  
**Chairman**

# Council Activities - October 2020

**Date: 06-10-2020**

**Region: West**

## **District Export Promotion Committee Meeting of Panchmahal District**

The meeting of District Export Promotion committee, Panchmahal was held on 6th October, 2020 by video conference was chaired by Chairperson and District Collector, Panchmahal, Godhara. The meeting was co-chaired by Jt DGFT Vadodara. General Manager, District Industries Centre, Panchmahal is the convener of DEPC Committee. As per vision of the Hon'ble Prime Minister, there is a need for converting each district into potential export hub and the DEPC has been formed to assist and promote industries from Panchmahal District for exporting. The Council was represented by Mr. Naman Marjadi, Assistant Director, Regional Office- Ahmedabad.

**Date: 7-10-2020**

**Region: East**

## **Meeting / Event Particulars: Special e-Session themed ' Road to Recovery'**

The e-Session organised by the Bharat Chamber of Commerce, Kolkata on 7th October 2020 was addressed by Dr Pronab Sen, First Chief Statistician of India, Chairman, Standing Committee on Statistics(SCES), Ministry of Statistics and Programme Implementation, Government of India. Mr Nilotpal Biswas, RD joined the online session.

**Date: 13-10-2020**

**Region: West**

## **District Export Promotion Committee Meeting of Gandhinagar District**

The First meeting of District Export Promotion Committee of Gandhinagar District was held under chairmanship of Collector Gandhinagar on 13th October, 2020 at Conference hall, Collector Office, Gandhinagar. Information was shared regarding role, working and objectives of DEPC. Discussions were also held regarding the action plan to boost exports from Gandhinagar District. The Council was represented by Mr. Naman Marjadi, Assistant Director, Regional Office- Ahmedabad.

**Date: 20-10-2020**

**Region: West**

## **District Export Promotion Committee Meeting of Dahod District**

A meeting of the District Export Promotion Committee (DEPC), Dahod was held on 20th October, 2020 by video conference was chaired by the Chairperson and District Collector, Dahod. Collector Shri. Vijay Kharadi said that Dahod is likely to become an export hub through value added farming and agro processing. Deliberations were made to develop Dahod as district export hub by assisting and promoting industries for exports. The Council was represented by Mr. Naman Marjadi, Assistant Director, Regional Office- Ahmedabad.

**Date: 20-10-2020**

**Region: North**

## **Webinar on "Demystifying New RBI Guidelines on Forex Hedging products available for Importers/Exporters & understanding Future Trends in Major Currency Pairs**

Plexconcil and RBL Bank jointly organised a webinar on "Demystifying New RBI Guidelines on Forex Hedging products available for Importers/Exporters & understanding Future Trends in Major Currency Pairs".

### **The webinar covered the following issues:**

- New RBI Guidelines post September 01, 2020 to help Exporters/ Importers plan their receivables/ payables
- RBI guidelines explaining the new Forex Hedging Products/tools introduced to Facilitate cross border trade
- Understanding Future Trends in major Currency Pairs USD/INR; EUR/INR; GBP/INR; CAD/INR etc.

## Speakers/Panelists at the Webinar:

1. Mr. Dinesh Sharma (Head- North& East Branch & Business Banking (RBL BANK)
2. Mr. Hasan Sabuwala (Senior Vice President- Forex & Derivative Sales (RBL BANK )
3. Ms. Rajni Thakur - Chief Economist & Head of Research- Financial Markets, RBL Bank
4. Mr. Vikram Bhadauria – Regional Chairman – Northern Region - PLEXCONCIL

**Date: 21-10-2020**

**Region: East**

## Session on Rail Movement of Export Cargo In containers to JNPT/MDPT from Kolkata

FIEO(ER) & CONCOR in association with FSEZ and PLEXCONCIL(ER) organized the meeting. Session covered mainly information pertaining to shipment to JNPT port from Kolkata covering pricing, modalities, frequency, scope etc.

**Date: 21-10-2020**

**Region: R.O. South**

## PLEXCONNECT 2020 - VIRTUAL B2B - Introductory Meeting with the Embassy of India, Japan

An Introductory meeting with Embassy of India, Tokyo, Japan was held on 21st Oct 2020, regarding the virtual BSM scheduled on 04th & 05th November 2020. The meeting had the following agenda points:

1. Introduction of Officials from Plexconcil and the Embassy
2. Brief Introduction of FIBC Industry and the Expectations of Buyers from Japan - by Chairman
3. Brief address by the Officials from the Indian Embassy about the promotion of the event and update of registration of Buyers from Japan.
4. Demo of the Virtual Platform
5. Finalization of the slots

## The following officials were present during the virtual meeting:

Ms. Mona K C Khandhar, Minister (Economic & Commerce), Embassy of India, Tokyo, Japan  
Mr. Rajesh Duggal, Attache (Economic & Commerce), Embassy of India, Tokyo, Japan  
Mr. Ravish Kamath, Chairman – PLEXCONCIL  
Mr. Benjamin Cherian, Panel Chairman – Human Hair, PLEXCONCIL  
Mr. Anil Kumar, CoA Member, PLEXCONCIL  
Mr. Sribash Dasmohapatra, Executive Director – PLEXCONCIL  
Mr. Ruban Hobday, Regional Director – South, PLEXCONCIL  
Mr. R. Dayanidhi, Asst. Director  
Mr. Naman Marjadi, Asst. Director  
Mr. Sooraj Dhawan, Director, Falcon Exhibitions Pvt. Ltd.

**Date: 27-10-2020 to 01-11-2020**

## Support to GSPMA's VIRTUAL PLEXPOINDIA 2020 Exhibition

The Plastics Export Promotion Council lent support to the 1st "VIRTUAL PLEXPOINDIA 2020" Exhibition organized by the Gujarat State Plastic Manufacturers Association (GSPMA) from 27th October to 1st November, 2020 on virtual platform. In the wake of the pandemic situation and post-COVID era, VIRTUAL PLEXPOINDIA 2020 aimed to provide a unique opportunity to bring the buyers-sellers together on a virtual platform.

### WEST

- Representation to JS REVENUE & NC, Department of Revenue, New Delhi regarding FIBC Exporters - Incentives stopped on MEIS (Merchandise from India Scheme) on FIBC (Flexible Intermediate Bulk Containers) HS - ITC 6305 3200 by DGFT from 1st August 2019.
- Representation to Addl. Commissioner of Customs, Mumbai for speedy clearance of import shipment of M/s. Royal Thermoset Pvt. Ltd which is under clearance since July 2020.
- Representation to DGFT, New Delhi regarding issue of M/s. M/s TARSONS PRODUCTS PVT. LTD., Kolkata requesting for permission for grant of export permission of 15 ML Centrifuge Tubes and Tubes and Cryovials value USD 1,421,052.63 under NON SCOMET Category
- Representation to Addl. DGFT, New Delhi regarding the concern raised by M/s. The Supreme Industries Ltd. requesting for clarifications on FTP- Para 4.47(iv) of HBP -FTP Policy 2015-2020
- Representation to DGFT, New Delhi requesting for removal of pre-import condition from advance authorization with retrospective effect.
- Representation to EP (CAP) division regarding BIS certification for imports of Phthalic Anhydride HS code no. 29173500

### EAST

- Representation made to DGFT, New Delhi office for Permission for export of 15 ML CENTRIFUGE TUBES AND CRYOVIALS as the concern/issue informed by our Member M/s Tarson Products Pvt. Ltd., Kolkata that their key products have been notified as 'restricted items' under the Foreign Trade Policy 2015-2020(vide notification no- 09/2015-2020 dated 10th June, 2020), for the purposes of export.
- Representation made to Joint Commissioner of Commercial Taxes, Behala Charge, Kolkata regarding non-receipt of pending ITC refund for the FY 2015-16 for our Member Exporter M/s Kolor Impex.



www.DesktopBackground.org

## Meet the Team (North & South Regions)



**Anil Bansal, MD Rama Sacks N Bags Pvt. Ltd., Panipat**

It is an honor for our organization; for me to be selected in the Plexconcil's Youth Committee. With this honor comes the sense of responsibility to contribute to the growth of this great organization with full vigor. Plexconcil can greatly contribute to the industry by sourcing technologies to the innovators, the investors who believe in the potential of Plastic Industry as a whole.

Rama Sacks N Bags Pvt Ltd is a reputed name in the field of PP woven fabrics in Northern Part of India and is known for its quality products. Rama group is into Technical Textiles, Multilayer Films, Monolayer films, PP Yarns and Jute Yarns. Customer centric approach has been the key mantra for our success whether in product development or pricing. With visionary leadership, capacity to take risk and a diversified product folio, we are well placed to take our woven business international. Plexconcil is the right platform with shared values and goals to make in India possible

Being an engineer has enabled me to do in-depth analysis, finding new opportunities and convert these opportunities to meaningful business propositions. I have an industry exposure to both the domains; Jute - a natural fiber and Plastics – a manmade innovation. We are engaged in Exports/Imports of Jute Yarns and Jute products from past 15 years thus have a good know how of International business. Thus, what we can bring on table is the core experience and market expertise of both the fields and make the best out of it. Besides business I have been a keen contributor to social front and always have been pro-active in tasks of social welfare and community development. I thank the management of Plexconcil for making us the part of this Journey.

### CORRINGENDUM

Kindly note that in the last Edition of Plexconnect, Edition 17, the location of Shri Maa Group of Companies, with Adarsh Bansal, Director, part of our Youth Committee (EAST) was wrongly mentioned at Bhopal, Madhya Pradesh. Shri Maa Group of Companies is a Kolkata based Group.



## Bharath SA

**M**anaging Partner of Plastrusions an Industry specialised in manufacturing of Polypropylene and Polystyrene Plastic Tableware Disposable Products using Thermoforming and Vacuum forming since 1990.

Bharath's father Late Sri Ashok Kumar believed in the hackneyed saying by Henry Ford - "Quality means doing it right when no one is looking", who founded his maiden venture Plastrusions decades ago. Being trained in his workshop, I Bharath inherited his father's traits, imbibed his vision and carried his invaluable legacy to continue the journey of contributing to the industry.

His search and contributions for best business practices and products of immense utility to society continued. His perpetual effort in improving production and product excellence and contributions for alternative means towards Atmanirbhar Bharat, continued over the periods. He has two manufacturing units in Bangalore set with one hundred percent indigenous technology which caters to export markets of UK and USA. Bharath thinks "improvisation is a continuous activity" and towards this he hones his skills by educating/updating himself on latest global techniques by attending to international symposiums/seminars.

Bharath furthered his father's legacy of CSR by supporting this cause as an active Rotarian and a philanthropist. He is a vivid open water swimmer and a mountain enthusiast. In recent past has teamed with fitness freaks to swim across Pacific Ocean for 33km from Catalina Island to Los Angeles coast and climbed of Kilimanjaro, tallest Mountain in Africa. Fitness, he believes, shapes a person's personality which is of immense value in Business environment.

While acknowledging the honour bestowed by Plexcouncil for nominating Bharath for Youth Committee for Plex-council south region, he has framed his responsibilities in by identifying, certain areas that he would focus on :

1. Represent to respective Government Departments/Agencies in improving legislations for providing competitive manufacturing environment, ease of starting business, marketability of products, identifying structured finance for the industry, industry friendly labour regulations and the like, removal of hardships faced by the entrepreneur and the like.
2. Work towards import substitution and export advancement by incentivising similar industries.
3. Exporters are now at the mercy of international cargo agencies, who charge exorbitantly for shipping consignments for multinational destinations. To work on reducing such logistic costs and to fine alternative economic source of shipments.
4. Consignments from South India face hardships as the ports are not congenial for certain ship large liners vessels. To work on suggesting to authorities for addressing these shipment/docking issues.
5. To work on suggesting to Government in improving the process of "faceless assessment" by customs to ensure removal of harassment to importers.
6. Creating awareness and educating users, on disposal of plastic to facilitate recycler.



## Manoj Verma, Director, Royal Plastocraft Private Limited, Bahadurgarh (Haryana) & Ghiloth (Rajasthan)

**A**s a Director of Royal Plastocraft Private Limited, which is a Plastic Moulding Company since 1995 & I am on the post of Director since last Nine years in this organisation. I am looking for all operations & especially for technical support including new projects. Graduated from Delhi University. Having a industrial experience of 25 years in Plastic Moulding Unit.

I am privileged to be a part of Plexconcil Youth Committee and look forward to actively interacting & participating in the council's export promotion activities for the betterment and growth of plastic export from the Northern Region. I firmly believe that India has a strong & long journey ahead for becoming an export leader globally. I also believe that Plexconcil will play a leading role to take this journey forward.



## **Chirag Agarwal, Director, Sampark Industries Ltd., Greater Noida, Uttar Pradesh**

**A** Director at Sampark Industries Ltd., Chirag Agarwal is a proficient entrepreneur having completed his graduation from Delhi University with BA Economic (Hons) in 1993 and subsequent post-graduation in MBA (Finance) from George Washington University, Washington DC, following which he joined the family owned business in 1998. Sampark Industries was established in 2002 and was the first to enter the foray of manufacturing CPP films in India.

Sampark Industries today has gained recognition as one of the most prominent and largest manufacturers, suppliers, and exporters of a diverse range of CPP in Transparent, Natural, white Opaque & metallized films in the country, with its annual capacity of 12,000 tons. The company boasts two state-of-the-art CPP Lines, a 2.5 Mtrs from Grupo Collins, Italy and a 3 Mtrs from Reifenhäuser, Germany. The company also has two Metallizers with width of 1660 & 2100 mm with Plasma Treatment from Valmet, UK in addition to Coating Machine for Lacquering, Holographic machine, Slitting machine, etc. A visionary leadership, stringent Quality Control and a team of highly experienced and skilled personnel underline the company's success.

"Having spent over decades in the industry, I have gained a lot of knowledge and support through my journey. I believe that as a member of Plexconcil's Youth Committee, I would have the opportunity to use my experience and help highlight the issues faced by our industry and work towards effective resolution of the same. I also hope to help the council in extending its membership outreach as the export industry offers immense growth opportunities and I would encourage more industry members to be a part of this fast growing segment".



## **Shailesh Lahoti, Director, Blend Colours, Hyderabad**

**S**hailesh Lahoti represents Blend Colours Pvt. Ltd, Hyderabad as a Director. He has completed his graduation in 1999, and since then has been serving the Company with visionary leadership and excellent guidance. Blend Colours which is leading manufacturer & among top exporters of plastic masterbatches from India, is part of a family owned industrial group with business interests also in Flexible Packaging, Poly Bags, Printing Inks, Stretch Films, Laminated Woven Sacks, Chemicals & Pharmaceutical products.

"I am glad to be nominated as a member of youth Committee, and would utilize my position to help the industry and council to expand its reach, open up unexplored avenues, and work towards furthering the industry goals by supporting the Council's various initiatives. I believe that considering the current lingering sentiments around china, India has huge scope and potential to expand its reach in export markets and we must seize the opportunity to expand our capacities and capabilities to meet the increasing global demand."



## **Mayank Goenka, Business Development Officer, RMG Polyvinyl India Ltd. New Delhi**

**I** have recently joined the Plexconcil's Youth Committee and am very thankful for this opportunity. As part of my Bachelors in Mechatronics Engineering from the University of Glasgow, UK I have been part of many leadership and mentorship roles during my time in the university. I am currently representing and working with RMG Polyvinyl India Ltd. where we manufacture and export PVC floorings and PVC leather. RMG is a one-star export house and has been the largest exporter for PVC floorings for many years. My vision for the council is that it becomes a platform where the

plastic industry can raise its voice in unison and is able to act as a centralised system for feedback between the authorities and industry, simultaneously making India a net exporter for plastic products. Although I am new to the business, I am more than willing to learn under the guidance of the youth committee's Chairman Mr. Vikram Bhaudauria Ji and assist the council to achieve its objectives.



## **Pranay Kumar, Chief Environment Officer, Vasudhaecofriends projects (P) Ltd., New Delhi**

**P**ranay is an Electrical Engineer from BIT Sindri, MBA from Hult & Harvard (Boston) and has an environmental law certificate from National Law University. He has 26 years in Leadership, marketing and technical roles in technology firms and currently a member of Plastics Export Promotion Council and ASSOCHAM Sustainability Council.

He is an enthusiastic learner and innovator in microbiology and nanotechnology and guest lectures at Indian Institute of Packaging and Indian Institute of Technology, Roorkee.

He is the co-owner of Vasudha Projects P Ltd, which makes and sells first of its kind of Biodegradable master-batches and finished products, which works with most petroleum-based polymers. Vasudha is also into Solid Waste Management.

“As a sustainability entrepreneur my focus is always on Innovation for projects and products that utilise resources at optimum level. Plastics are the new raw materials for humankind and we are learning to manage these. Plastics have the lowest eco footprint amongst raw material as compared to its peers.

My intention and actions as a member of the Youth committee would be to 1) Promote Plastics as the most sustainable packaging solution 2) Raise awareness in the plastic community of profitability derived from Quality and Value of the products 3) Connect action for mitigation of climate change with plastic products, made in India and 4) Connect with and educate our International clients of Indian Plastics Companies' capabilities and products. I hope to have the support of the Plastic Industry and our End user Industries, which is virtually everyone am privileged to serve the plastic industry. “



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## **Sushant Gupta, NTC Concrete Products, Himachal Pradesh**

**I**am pleased to introduce our company as the leading manufacturer and exporters of Synthetic Ropes, Twines and Nets. Since its inception, our emphasis has been on quality and customer satisfaction. Over a decade, we have gained expertise in Innovation and Quality is the centripetal force which has been helping our company to thrive.

We have 6 manufacturing units with various BIS ISI licenses. NTC Tiles, Azuka Ropes and Lasting Software are our 3 companies but with one mission - We believe in only making products that we can stand by proudly.

After graduating as a B.Tech. from IIT Delhi in 2010, I joined the family business with the goal to take the family business to the corporate level. Since then we have been focusing on exports. We are also a member of various BIS technical committees responsible for setting the standards specifications of the products.

I feel honoured to be a part of the Youth Committee at Plexconcil. India is a great export house to the world and has good opportunities for further growth. And Himachal Pradesh though seems far away from the sea-shore, still has the potential to significantly contribute to exports. I look forward to working together with the Plexconcil community to further exports of our segment



**Ritesh Nayak, Director & CEO, Topsack Packaging Pvt Ltd, Bengaluru, Karnataka.**

**R**itesh R. Nayak, operates in the capacity of a Director & CEO of a young export oriented jumbo bag/FIBC manufacturing company - Topsack Packaging Pvt Ltd which is about 10 years old. He joined the family owned business in the year 2013 after contributing to IT/ITes domains in globally recognised corporate such as HGS and Hewlett Packard for about 12 years in Service Delivery, QM and BD space. He holds a graduate degree in Electronics along with various IT/ITes Project Management, IT Quality, QMS and IT Security accreditations. He has co-founded two IT management training companies at a young age that which have a diminutive yet significant foot print today. In his 7 years working span with Topsack Packaging Pvt Ltd he has seen the company grow from just over hundred personnel to over 700 at peak.

Topsack Packaging Pvt Ltd, today, exports jumbo bags and other woven plastic products around the world under his leadership and is enroute to scaling up its production capacity significantly very shortly.

“I would like to firstly appreciate the vision shown by Plexconcil in having created a Youth Committee and also thankful to the esteemed board for empanelling me. I look forward to adding utmost value to this initiative and extend unstinted support in further strengthening the legacy left behind by the founders and drivers of this valuable effort. I look forward to the opportunity to infuse fresh ideas, help with healthier communication with the prevailing & successive ministerial bodies, extract and share valuable industry information with the association members.

Plastic packaging products is one of the fastest growing manufacturing sectors in the world today with the largest footprint being held by China, (about 26%), followed by USA and Germany. Though India does not rank even within the top 10 countries, I believe that with the availability of material resources, manpower and positive intent shown by prevailing government, the opportunity for us to grow in ranking is enormous.

India stands at the door of tremendous possibility today. Responsible usage of plastics is the need of the hour and if done correctly, plastic shall remain irreplaceable for a very long time. Plastic is an extremely versatile invention with absolutely limitless prospect. It may be prudent to note that the world has today woken up to its mismanagement of safe disposal mechanism of plastics, which is what gave it the bad reputation. However, with improved worldwide understanding of the benefits of plastics, better clarity of its environmental impact and methods for proper disposal, recycling, etc is more evident than ever. There is a serious collaborative effort and synergy between stakeholders to make plastics recyclable and biodegradable. This is a game changer. Plastics are once again being seen as a friend rather than a foe. This level of maturity among all stakeholders shall ensure that we manufacturers will have enough on our hands in times to come. We will not only be compelled to make plastics more adaptable than ever but also safer than ever to ‘collectively’ enjoy this pliable and multitalented material in decades to come.

There is no limit to this noble material as it is used from baby food packing, to replace vital human body parts or to mould space craft/ satellite components. The dawn of plastics is yet to arrive is as best as I could describe in words.”



**Varun Ramsisaria, Director, Virgo Polymer India Ltd. Kanchipuram, Tamil Nadu**

**B**eing exposed to polymer industry from childhood, and having presence in monofilament industry, PVC pipes, and Flexi-packaging section gave me a vision to pursue FIBC.

FIBC is not only a polymer industry but also labor intensive, giving me an opportunity to focus on operational excellence and R&D in the unit.

I have been the Director - Operations at Virgo Polymers, which was the pioneer to introduce flat fabric in FIBC, and is in exports for last 3 decades, having more than 60% Global Coverage.

Virgo Polymer is not only an exporter of FIBC but also a DCA and CS for HMEL in 3 states of south India.

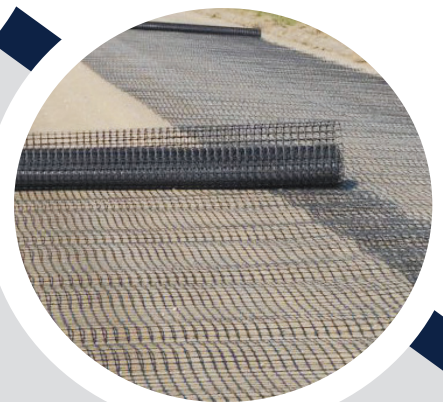
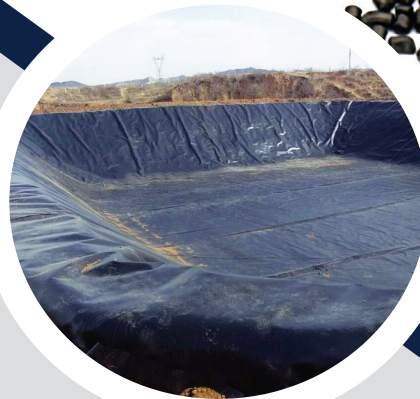
As the BrainChild behind ViVa PetroChemical LLP and a Director - Operations at Virgo Polymer, it gives me immense pleasure to be a Part of Youth Committee of PlexConcil, giving me an opportunity to expand my vision on Operational Efficiency and Industry 4.0 in the Polymer Sector, with a focus on promoting the Indian products across the globe.”



**JJ Plastalloy Pvt. Ltd.**

**Black**

**Masterbatches**



## **Geo Membrane and Geo Synthetic**

- Very fine particle size of Carbon Black used thus giving very good UV stability to the fabric manufactured. Lower cost on account of lower maintenance cycle
- Excellent Dispersion
- Very clean carbon having very low impurities hence higher shelf life
- Very high Jetness and Gloss

### **JJ Plastalloy Private Limited**

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🌐 [www.jjplastalloy.com](http://www.jjplastalloy.com)





## Gujarat Plastic Exports Industry

### At a Glance - Plastic Exports from Gujarat

- The State of Gujarat is the No. 1 Ranking State in India with Plastics exports in 2019-20 valued at USD 3,567 Million
- Gujarat plastic export contribution stood at USD 3,567 Million or 36% of the total plastic exports in 2019-20.
- Gujarat has showed immense growth in export of plastics, rising from US\$ 2.25 billion in 2014-15 to as much as US\$ 3.57 billion in 2019-20
- Of the total Plexconcil Membership, approximately 25% are from Gujarat
- The new Gujarat Industrial Policy 2020 is an example of a comprehensive and reformative State policy with special emphasis on Export Promotion

### GUJARAT'S PLASTICS EXPORT - Total

Product	2017-18	2018-19	2019-20
India's Export	8,885	11,020	10,000
Gujarat's Export	3,065	4,165	3,567
% Export Contribution from Gujarat	34%	38%	36%

### GUJARAT'S PLASTICS EXPORT – Raw Material vs. Value Added Products

Product	2017-18	2018-19	2019-20
Raw materials	2,023	2,810	2,169
Finished products	1,042	1,355	1,398
	3,065	4,165	3,567
% Growth	32%	36%	-14%



## **PLEXCONCIL REGIONAL OFFICE – Ahmedabad**

In a strategic bid to support, assist and promote the plastics export industry in Gujarat region, Plexconcil established its presence in the State through its regional office headed by Mr. Naman Marjadi, Assistant Director in Ahmedabad in September, 2019.

- Council Office started interacting and currently holds cordial relationship and strong networking with prominent Plastic Associations and other regional trade associations of the state
- The Regional Office participated or co-organized several events and webinars for the benefit of industry and to maximize trade engagement.
- The Regional office also engages with the State Government officials, DGFT Office, MSME DI etc. for the benefit of trade.
- Encouraging Plastic Manufactures and Merchants to become members, Informing and educating various Plastic non exporters to move into exports
- More than 50 exhibitors (including pavilions of GSP-MA and SPMA) from Gujarat participated in the 5th CAPINDIA 2019 either directly or through various trade associations.
- Plexconcil in coordination with other stake holders of District Export Promotion Committee (DEPC) is supporting to resolve challenges faced by local industry in boosting exports from various districts of Gujarat State.
- Other functions of the office include, promotion of International exhibitions, Virtual B2Bs; membership outreach among non-members, RCMC renewal; member redressal; engaging with the industry through Plexconcil's social media, WhatsApp groups, Plexconnect magazine and many more.

## **PLEXCONCIL REGIONAL COMMITTEE – Gujarat**

Plexconcil proudly welcomes its Regional Committee in Gujarat. The Regional Committee comprising leading and accomplished business leaders from the State has been constituted to bring in their knowledge, expertise and experience in helping the Council play an active and effective role in promoting plastic exports from the state. The Committee shall promote the Council's activities and initiatives in promoting Gujarat's plastic exports amongst global stakeholders and communities through use of available resources.

As well-respected members of the fraternity, the Committee shall focus on encouraging and enrolling new members from across the region by highlighting the benefits of the export industry. They will guide and support the Regional office in helping Council members with their various requirements and redressals; assist in representing the challenges issues faced by the exporters and bring in new and fresh perspectives to the overall functioning of the Council to achieve its goals.

## PLEXCONCIL Regional Committee (Gujarat)

S. No.	Name	Organization
1.	Mr. Ravish Kamath	Chairman, PLEXCONCIL and CEO, Big Bags International Private Limited
2.	Mr. Arvind Goenka	Vice Chairman, PLEXCONCIL and Managing Director, RMG Polyvinyl Private Limited
3.	Mr. Sribash Dasmohapatra	Executive Director, PLEXCONCIL
4.	Mr Shyam Tibrewal	CoA Member, PLEXCONCIL And CMD, Mayur Wovens Private Limited
5.	Mr Alpesh Patel	Director, Knack Packaging Pvt Ltd
6.	Mr Jigish Doshi	CMD, Vishakha Polyfab P Ltd
7.	Mr Ramesh Patel	MD, Deep Polymers Limited
8.	Mr Pandurang Patkar	Director, Patkar Extrusions Pvt Ltd
9.	Mr Anand Desai	Director, Makers Polyfilms Pvt Ltd
10.	Mr Bharat Shah	Director, Pelican Rotoflex Pvt Ltd
11.	Mr Jitendra Patel	MD, Crown Decor Pvt Ltd
12.	Mr Naman Marjadi	Asst. Director, PLEXCONCIL, (Ahmedabad)



**Alpesh Patel, Founder & MD, Knack Packaging Pvt. Ltd.**

**E**stablished in the year 1993 in Ahmedabad, Gujarat, Knack Packaging Pvt Ltd. Was engaged in the manufacturing of PP Woven bags and fabrics. The company believe is strict adherence to GMP (Good Manufacturing Practice) and ensures a stringent quality control at every stage of the manufacturing process. In 2006, the company introduced a new Product, Multicolour Printed BOPP laminated PP woven bags and today Knack Group has become a global player. The company has also recently introduced a new product, Pinch Bottom Bags, for which it will be pioneer in the industry and country.

With its dedicated production, and a team of well-trained skilled personnel, the company has earned a name in the domestic as well as international arena and now caters to a plethora of clients in countries like U.S.A., U.K. U.A.E. Spain, Chile, South Africa, Zimbabwe, Sudan, Nigeria, etc. with further plans for global expansion.

Mr. Alpesh Patel successfully established and set up Sales & Marketing for the company all around the globe and is credited for building effective sales teams, developing new markets & network systems, penetrating new territories, encouraging product innovation, identifying and nurturing existing customer relationships in established markets. His hands-on coaching styles, team building abilities, considerable experience in negotiations, progressive outlook towards technology and digitalisation have been drivers of growth for the company. He effectively adapted and implemented CRM and SAP S4 Hana Consistent development and application of sales processes and has successfully developed business across 70+ global markets.

“I love nature and am an avid observer and student of it. The most important lesson I learned from nature is that you have to keep growing to be truly alive. Today, we are a prominent vendor in our field producing more than 4 Lac quality bags per day, but that is not our final destination. We want to keep growing, improving and expanding our capabilities. We want our production to go on round the clock without interruption. We want to be a partner with our clients in their growth. And that is what we plan to do. We plan to keep moving forward”.

Role Played in Industries/ Associations/Professional Bodies:

- Chairman of Indian Institute of Packaging – Ahmedabad. President of Poly Woven Association - Gujarat.
- Expert lecturer in Nirma University Institute of Management.

Honour, Awards and Recognition:

- Recognised with “Rashtriya Udhog Ratna Award” in Council for Economic Growth & Research for “Excellence in their respective field” in 2011.
- “Quality Brands” 2011-2013 awarded us for “Excellence in respective field”.
- Awarded with “Silver Award” for category “Fastest Growth of Manufacturing of HDPE/PP Woven Fabrics, Woven Sacks & Bags” in 7th Plastics awards 2015 organised by PlastIndia Foundation.
- Awarded with “Gold Award” for category “Award for Best Upcoming Entrepreneurship” organised by PlastIndia Foundation in 2018.



**Anand Desai, Director, Makers Polyfilms P. Ltd**

**T**he company is a leading manufacturer of speciality labels and pouches and market leaders in Heat Transfer Labels/Foils, In Mold Labels and Shrink Sleeves with technical competency in Gravure and Flexo Printing technologies. Mr. Anand Desai holds a BE in Electronics and an MBA – Marketing from the University of Mumbai



**Bharat Shah, Founder and CMD of Pelican Rotoflex Pvt. Ltd.**

**U**nder his leadership, the company gained renown for having developed several high-tech converting machines, first-in-India amongst all fastest ELS Rotogravure printing press for flexible packaging industry in 2006.

Mr. Shah started his professional journey very early in his family confectionary business with his father. With his experience in confectionary packaging, Mr. Shah started converting the unit for flexible packaging and in 1996, shifted to manufacturing converting machineries.

In 1997, he developed the first Narrow Web Gravure Line. Since then he has earned much recognition for many state-of-the-art research and development accomplished under his leadership, which resulted in substituting many imported machineries.

In 2006, he developed India's First Rotogravure printing press with an Electronic Line Shaft technology. Subsequently, has developed various types of specialty Coating machines, which were only imported earlier from various parts of the globe.

Recently, he developed India's first fully automatic N-95 mask manufacturing machine in just in three weeks' time and has been contributing immensely towards the vision of making our Nation self-reliant and self-sufficient.

He always takes time for his passion for traveling and adventure sports like skydiving, scuba diving, para-sailing, etc.



**Jigish Nagindas Doshi, CMD, Vishakha Group**

**S**hri Jigish Doshi, is a chemical engineer technocrat in the Plastics Industry with more than 3 decades of experience in the manufacturing of multifaceted Plastics various products. He began his career in 1981 with a humble set up of a SSI unit for manufacturing Monolayer Film and trading in Polymers. Thereafter, Shri Doshi with his hard work and sincerity, successfully established "VISHAKHA GROUP" in 2001, which has become synonymous for quality Plastics Products across the country. The group comprises of 6 group companies viz. Vishakha Polyfab Pvt Ltd; Vishakha Industries.; Vishakha Irrigation Pvt Ltd.; Vishakha Renewables Pvt Ltd.; Vishakha Solar Films Pvt Ltd.; VIGI Agri Films Pvt Ltd.

VISHAKHA GROUP is diversified group of industries. They are one of the largest Barrier Films manufacture to save loses of food products and serve food product in good quality. VISHAKHA is India's largest company to manufacture of high barrier (Nylon & EVOH base) films. Vishakha believes in quality product with R&D. We believe in new generation / innovative product which helps to develop our Nation and save environment. VISHAKHA is the First to manufacture 7- layer film in 2003 and 9-layer film in 2009. VISHAKHA is the first to manufacture recyclable barrier film under exclusivity tie up with DOW-DUPONT across INDIA.

The company produces Micro Irrigation System to save water and producing Pipes for transportation of water and MDPE Gas pipe for Gas Distribution; as well as Big BINS for storage of fruits and vegetables up to 1 year to save the wastage of fruits and vegetables. VISHAKHA is also a manufacturer of SOLAR component 95% of which are imported for sustainable Renewables energy. VISHAKHA is also the first to manufacture 5-layer up to 14 Meter film for Green Houses, Agriculture & Pond Lining, under technical and marketing Joint Venture with one of the largest companies in Israel.

The VISHAKHA group has received several prestigious awards such as:

- Award for Excellence in Creative Packaging by Plastindia Foundation.
- Gujarat Guarav Award 2004 "Award of Excellence".
- Export Excellence Awards 2008-09 by Gujarat Chamber of commerce & Industry.
- INDIA STAR 2010 - Award, the highest recognition for excellence in packaging in india by IIP.
- Hercules Award 2014, by GIS, for Innovation.

## Personal Achievements:

1. President – PlastIndia Foundation – 2018-2021.
2. Chairperson - “PROMOTIONS WITH STATE GOVERNMENT’S & UNION TERRITORIES”, NEC 2018, Plastindia 2018.
3. Chairperson – “International Promotion Committee”, Mediterranean – Egypt, Algeria & Morocco, Israel & Jordan. Plastindia 2015
4. Chairman - Plexpo India 2010.
5. Chairman - International Visitors Promotion, South East Asia Plastindia 2009 (China, Taiwan, Hong-kong).
6. Chairman - (Western Region) Plastindia 2006.
7. Special Invitee Member of GUJARAT CHAMBER of COMMERCE & INDUSTRIES - 1995-2004 & Co-opt Member for 2009-2010.
8. President – Gujarat State Plastic Manufacturers Association – 1994-95.



**Mr. Jitendra Patel, MD, Crown Decor Pvt. Ltd and Past President of ILMA (Indian Laminates Manufacturers' Association)**

**C**rown Décor, established since 1978, is a manufacturer of laminates with a state-of-the-art manufacturing facility and production capacity of over 6 million sheets per annum. First established in Wadhwan City with Royale Touche's first manufacturing unit, the company has been credited with manufacturing India's country's first luxury laminates. Today, Crown Decor has display showrooms across major Indian metros, dealerships of over 15000 pan India, and an international reach of over 60 countries.

Since 1979, Crown Laminates vaunts a legacy that celebrates innovation, cutting edge technology, craft, and expertise. Our unceasing efforts with OEMs, architects, interior designers, and developers, together with an in-depth understanding of the market and its demands, has strengthened our product base and has helped establish Crown Laminates as one of the leaders in laminates, both domestically as well as globally. The company has carved a niche for itself as one of the most premium laminate brands in the country with the widest range in the category and quality that is second to none.



**P K Patkar, Managing Director, Patkar Extrusions Pvt. Ltd.**

**A** landmark in Packaging, Patkar Extrusions Pvt. Ltd. was established in 1978 in Ankleshwar, Gujarat. The venture was focussed mainly on making liner PP Bags, small carry bags & few moulding articles. Gradually we expanded our product portfolio making us today one of the largest house of plastic packaging solutions in India.

Our 3000 MT/month diverse portfolio includes products such as Stretch Wrapping film, Cling film, Masking film, PP Roofing sheets, Slip Sheets, PVC Agriculture Pipes, Mulching film, Grow Bag, FIBC Jumbo bags and many more all developed in house over the years backed by a strong market research and deep understanding of our customer's requirements. Today we can make any special film because of years of experience in the industry and due to strong support of our parent company which is one of the leading manufacturers in plastic processing and extrusion technology.

The Plastics industry in India can exponentially grow due to rapid increasing demand in Global markets. We are honoured to be a member of Plexconcil since many years and look forward to actively increase our industry's outreach together. As a prime supporter of Atmanirbhar Bharat and Make in India, we wish to see India as one of the leading exporters in the plastics industry.

Mr. P K Patkar is the Director and Founder member in PLASTICS MACHINE MANUFACTURERS ASSOCIATION OF INDIA (PMMAI). Our Founder & Mentor of the organization Late Shri Jagannath Ji Patkar strongly believed in giving back to the society and has done so by Founding SWAMI VIVEKANAND BAHUDYOG SANSTHA that deals actively with many social activities for the benefit of our society.



**Ramesh Patel, Managing Director,  
Deep Group of Companies**

**M**r. Ramesh Patel is a result-driven, self-motivated and resourceful and dynamic leader with a proven ability to develop and strengthen management teams in order to maximize company profitability and efficiency. Experienced in leading and growing all business operations, he is an excellent communicator and has built sustainable and profitable relationships with customers, suppliers and stakeholders across the world. His comprehensive understanding of financial management principles, entrepreneurial spirit coupled with commercial acumen and excellent management skills have led the company to become one of the most respected names in the industry.

Deep Plast Industries has been engaged in the manufacturing of masterbatches since 1992. Having witnessed phenomenal growth since its inception, the company, under the able leadership of Mr. Ramesh Patel has production capacities of 12000 MT for Color Masterbatches and 25000 MT of Filler Masterbatches. The company has a state-of-the-art, accredited world class manufacturing facility at Rakanpur near Gandhinagar and a new plant in Kanpur with 1000MT/month Antifab Filler compound manufacturing capacity. Continued improvement in quality, performance, innovation and strong customer focus underpin the company's success and have enabled the creation of a sustainable, competitive and respected name in the industry today.



**Shyam Tibrewal, CMD Mayur Wovens  
Pvt. Ltd.**

**M**r. Shyam Tibrewal is the Promotor of MAYUR WOVENS PRIVATE LIMITED (a leading company in the field of manufacturing and exports of PP/PE Woven Products in the country). He also serves as the company's Chairman & Managing Director.

The Mayur Group was built on values like Integrity, Commitment & Empowerment. The Group has always been conscious about contributing to the progress of Society & believes in empowering people by individual & institutionalized support. We use green energy ( wind and solar in our org.)

The Group was set up in 1975 by Mr. Shyam Tibrewal & since has evolved into a vibrant organization having a turnover of more than Rs. 300 plus Crores. Mayur Wovens Pvt Ltd is the leading Exporter of PP/PE Woven Products in the country since the past 14 years and has been exporting to more than 70 Countries worldwide. Mr. Shyam Tibrewal has vast experience of 5 decades in the field of dyes & chemicals , PP/PE Woven products and in the field of Technical Textiles. As our name denotes, PE/PP Woven Products and we manufacture almost everything under the sun related to PE/PP Industry such as Small Bags, Liner Bags, BOPP Bags, Jumbo Bags, which is used in packing Cement, Salt, Sugar, Sand, Fertilizer, Animal Feeds, Food grains, Chemical & other Dry Bulk Materials. Some of the value added products like Technical Textile, Geo Textile, Tubular Fabric, and Wide Width Fabric which is used for Roofing, Lumber Cover, Shade Nets, Carpet Backing, House Wraps, Slit Fence, and Ground Cover applications.

Mr. Shyam Tibrewal is closely connected to various Educational Institutes in the country that impart Post-Graduate, Primary & Bachelor Education in various faculties like B.Com., M.Com., MBA, MCA, Pharmacy, CA, CS & Engineering Science. He is also a Permanent Trustee of Bhagirathi Devi Tibrewal Girls High School in his hometown in Rajasthan where free education is provided to 800 plus girls. He invites all Educational Institutions for day tours to Mayur Wovens Facility to educate them on proper use & benefits & proper disposal of plastic products.

Besides the above Mr. Shyam Tibrewal has contributed immensely to the Indian & Global Plastic Industry by holding Honorary Positions like President – Plastindia Foundation, President – Plexpo, President – GSPMA & other capacities in AIFTMA, APF, ASEAN Federation of Plastic Industries.

Mr. Tibrewal is a Committee of Administration of Western Region of PLEXCONCIL.



## Why do EPCs Matter?

The idea of export promotion is possibly as old as trade itself. The basic objective of an Export Promotion Council is simple – to promote exports from the country. Councils are responsible for the promotion of a particular group of products, projects and services while projecting the country's image overseas as a reliable supplier of high quality goods and services, encourage and monitor the observance of international standards and specifications by exporters, as well as keep them abreast of the trends and opportunities in international markets for goods and services.

In India, export promotion activities through export promotion councils (EPCs) began as early as the 1950s, with EPCs like Synthetic & Rayon Textiles Export Promotion Council (SRTEPC) being established in 1954 and Plastics Export Promotion Council (popularly known as Plexconcil) being set up in 1955. EPCs fall under the purview of the Department of Commerce, GOI and are registered as non-profit organizations under the Companies Act/ Societies Registration Act. EPCs perform both advisory as well as executive functions. Each export product has its own Export Promotion Council; hence a promoter should register under a certain EPC as per their line of product.

As trade representative bodies elected through democratic processes, EPCs are governed by model by-laws provided by the Government to ensure impartial and unbiased representation of their trade segments. Although an extended arm of the Govt, EPCs have been equipped to function autonomously to ensure that the

concerned export segments remain dynamic, robust and globally competitive at all times. While EPCs further the country's export vision and outlook without posing any financial dependency of the Government, revenues utilized towards providing the vast array of services to the industry is generated through membership fees alone.



### **A bridge between the Government and the Industry**

Export Promotion Councils are government-initiated authorities that promote and support exporters in developing their overseas trade and presence by providing technical and industry insights. For new exporters, whether it is finding buyers, understanding markets or accessing subsidies and incentives; these several functions can often be daunting. EPCs act as the bridge between the industry and Government as bodies not only to promote government schemes, but also act as a data store and conduct overseas tours and studies. They act as an intermediary between the government and the export industry. Being a trade representative body, an EPC is well positioned to understand the workings and challenges of a given industry from grassroots and relay the data and findings to the concerned authorities. Such knowledge or intelligence sharing, and representations made

by the EPCs are critical in formulating the foreign trade policies of the country.

## Spokesperson for the Export Industry

In India, every product is represented by several domestic associations catering to the needs of their respective industry. However, the ideologies of such associations and trade bodies can greatly differ from an EPC that is solely focused on promoting Indian exports and India as a global sourcing hub. International business is dynamic and often influenced by geo-political and economic conditions. EPCs act reliable authorities for dissemination of the most accurate and current information regarding Import/Export policies, Duties & Taxes, Govt. subsidies, policy changes, export opportunities, overseas buyer identification and inquiries, global demand forecast, and a lot more. Such information is critical to not only new exporters but is also to the growth of the exports.



## A Catalyst for the MSME Industry

The MSME Sector today constitutes a very important segment of India's economy accounting for nearly 40% of the gross value of output in the manufacturing sector and about 50% of the total exports from the country. Direct exports from the MSME Sector accounts for 35% of the total exports. Export Promotion from the small-scale sector has been accorded a high priority in the India's export promotion strategy. Due to their inherent strengths of low capital investment, high employment generation, maximum utilisation of capacity, flexibility in operation, etc. MSMEs are highly conducive for rapid industrialization and generation of export surpluses. However, being largely scattered across the country and loosely organized, exports strategy for small sector demands simplification of export procedures and incentives for higher production and maximising export earnings. EPCs play a vital role as the voice for the MSME by highlighting the issues of concern, provide handholding and financial support through various

Govt incentives and schemes; and providing free market intelligence to the MSMEs that would otherwise be inaccessible to them. EPC also play a crucial role in industry redressals and resolutions, as well as seamless policy implementation designed by the Ministries for the MSME sector.



## Partnering with State Governments

The Department of Commerce has been proactively engaging with State Govts to promote exports by supporting outbound shipments from individual districts by creating exporting policies and allocating the export function to a senior level, dedicated department with a dedicated officer. State Govts are being encouraged to have state export strategies covering infrastructure, logistics, incentives, all other facilitation and promotional measures but also having a decentralised strategy covering each and every district. A circular by the Central Board of Indirect taxes and Customs (CBIC) now also requires exporters to furnish details like 'the state of origin of goods', 'details of Preferential Agreements under which the goods are being exported, wherever applicable', and 'Standard Unit Quantity Code (SQC)'. The data gathered will be used for district-level plans for promoting exports. The initiative is also aimed at bringing uniformity with the data/ information captured in the Goods and Services Tax Network (GSTN)

There has been a paradigm shift in the incentivization regime for exports. As a nation competing with various countries including new entrants into the export arena like Vietnam, the Govt aims to match the globally sought-after packages which is available to investors. Currently while Gujarat tops the "Export Preparedness Index 2020", Maharashtra and Tamil Nadu states are close behind. Plexconcil has also been recently in discussions with the Andhra Pradesh Govt which is seeking professional inputs by partnering with an authoritative body such as an EPC to promote plastic exports from their state.

# Why do EPCs Matter?



## Promoting India Across the Globe

A key role played by an EPC is extending the global outreach of exporters. By helping exporters avail various Govt schemes and grants such as MDA, MAI, etc., EPCs lead Indian exporter delegations and facilitate their participation at leading international exhibitions and fairs with the view to showcase India's powerhouse capabilities and capacities across product segments as well as gain exposure to global technology and product trends. Organizing Buyer Seller Meets, world-class trade fairs in India, etc are other ways that EPCs create platforms for networking and promoting Indian exports. Grants under the various Govt schemes can only be availed by members of an EPC or Govt authorized trade body.

Within the Plastics segment, Plexconcil plays a key role in organizing the annual CAPINDIA exhibition that aims to showcase the Indian plastics industry's prowess in a global marketplace. In addition to the Reverse Buyer Seller Meets organized during CAPINDIA, Plexconcil also regularly leads Indian delegations to numerous leading international trade fairs.



## Promoting Plastics Exports

As an EPC for Plastics exports, Plexconcil has been for ever six decades, actively working towards the growth and development of the industry. From USD 16 Million in plastic exports in 1955, the industry under the guidance of the Ministry of Commerce and stewardship of Plexconcil peaked at USD 11 Billion in FY 2018-19. Despite a slight decline due to the global economic slowdown in FY 2019-20 when plastic exports stood at USD 10 Billion and followed by the pandemic, Plexconcil continues its aim to reach the USD 25 Billion mark by 2025.

The ambitious goal is supported by the Government plans to operationalize 18 plastic parks to boost exports and domestic production of plastics in the country supported by a planned investment of USD 6.2 mn. Operationalizing of plastic parks is expected to further increase competitiveness and attract investments, while the cluster development approach will help consolidate capacities in the plastics sector. Within Plastics exports, India is well positioned as a key manufacturing base for corporations relying on global value chains in a dynamically evolving world trade scenario. Recent policy announcements underscore Indian Government's focus on domestic manufacturing and opening up of new export opportunities as well. India has undertaken several business-friendly reforms in recent years to enhance ease of doing business namely, 100% owned Manufacturing; Manufacturing through JVs; Contract Manufacturing.

The Plastics Industry offers huge growth opportunities due to lower per capita consumption as compared to world average coupled with low labour cost and availability of skilled manpower and training centers. The shift in global supply chains has also opened new opportunities for Indian exporters with the world increasingly looking towards India as sourcing hub.


To further reinforce its endeavour and goals, Plexconcil has undertaken the following export promotion strategy:

- Plexconnect Virtual B2B programmes – With the shift in global conditions due to the pandemic, the Council is in advanced stages of holding Virtual B2B meeting with buyers based in the leading international markets such as the US, Egypt, Japan, Korea and Vietnam. We are in discussions with 35 embassies and high commissions and plan to host 10-14 virtual B2B meetings with overseas buyers in the coming months.
- Developing a dynamic Export Strategy - The Council has approached three organisations, namely IIFT, New Delhi, IIM Ahmedabad and EXIM Bank of India, to help build an export strategy with the objective to increase exports.
- Organizing Export Awareness & Knowledge Seminars/ Webinars – With the support of various Govt

## Why do EPCs Matter?


bodies such as the DGFT, Customs, MSME Ministry, other industry associations, etc. the Council routinely hosts export awareness seminars and webinars across manufacturing clusters to encourage new members into the export fold by highlighting the various benefits of becoming an exporter. The Council also routinely partners with industry professionals including finance consultants, EXIM Bank, Policy consultants, etc to conduct knowledge sharing seminars/ webinars for members.

- Launch of a Mobile App – the Council has launched an interactive mobile App for the benefit of its exporters. The Mobile App allow buyers and members to network or conduct business 24X7. The comprehensive App also provides updates to any changes in policies, regulations besides news and information on business inquiries, new opportunities, trends and forecast (export performance data), etc.
- Skilling – The Council is in discussion with the Periyar University, Salem, Tamil Nadu to design their latest curriculum for MBA in Export Management. As a first important step towards Skilling, the Council will be involved in providing inputs for creating the syllabus with the university as well as offer internships and support campus recruitment, etc. for the aspirants.
- Engaging with the Members and the Fraternity – The Council has also undertaken multiple initiatives to engage with its members and the trade to garner better visibility for the plastic export industry. The Council publishes its monthly e-magazine, Plexconnect that has been conceived as a mouthpiece for the industry while serving as the platform to share important information, updates, news, views and industry perspectives. The Council also ensures relevance and staying current with its members through a strong digital footprint and engagement on social media platforms such as Linked In, FB, Instagram and Twitter. A PR plan has also been set in motion to highlight the initiatives, concerns and achievements of the Council and the plastics exports industry at large.
- Rewarding Export Performance – Over the years, the Council has been recognizing the dynamism, talent and entrepreneurship demonstrated by members by hosting its Annual Awards programme. The Awards are given for the best performance in multiple categories to recognize industry contribution towards our growth as well as incentivize others to do better.

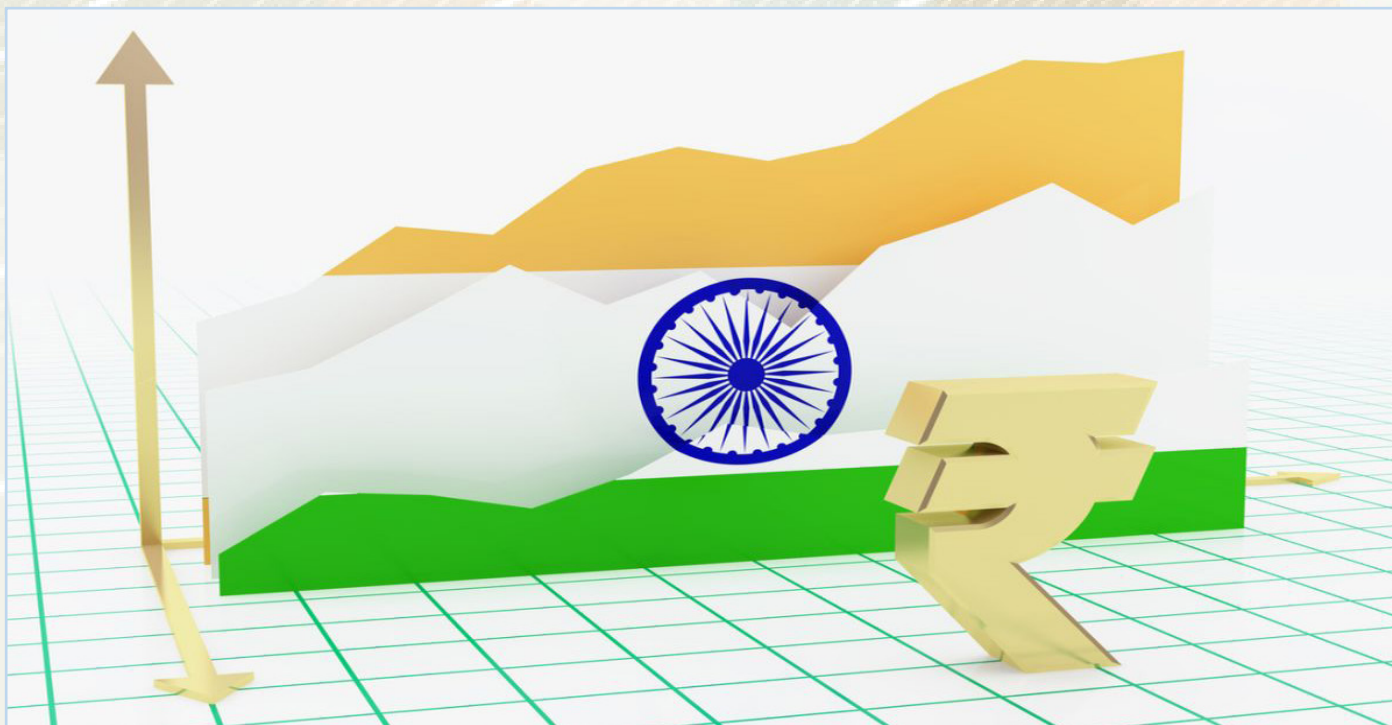
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**BUSINESS TOOLS • 24X7 BUYER SELLER CONNECT • BUSINESS ENQUIRIES**

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Download on the  **App Store**

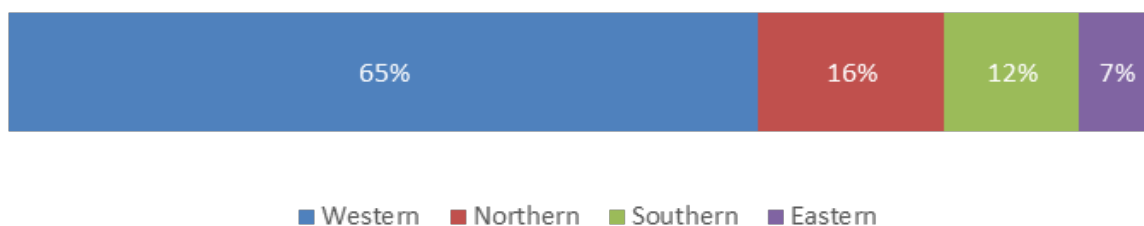
**CONNECT TO GROW!**



## PLEXCONCIL PRODUCT EXPORTS – A REGIONAL PERSPECTIVE

During 2019-20, export of products under the purview of The Plastics Export Promotion Council (PLEXCONCIL) stood at US\$ 10.0 billion. Exports from the Western Region were the highest and accounted for 65% of the total value, followed by Northern Region (16%), Southern Region (12%) and Eastern Region (7%).

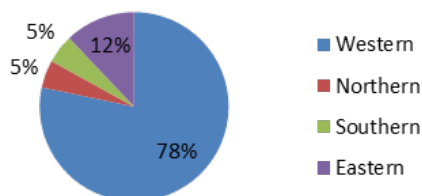
**Plexconcil product exports in 2019-20**



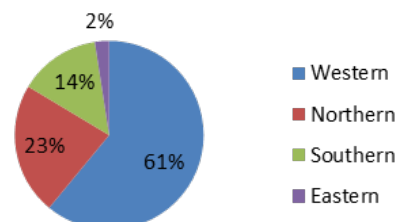
Considering the export of plastics raw materials, the Western Region accounted for 78% of the total value, followed by Eastern Region (12%), Southern Region (5%) and Northern Region (5%). Plastics raw materials formed 35% of overall PLEXCONCIL product exports in 2019-20.

For value-added plastics exports, the Western Region was again the highest and accounted for 61% of the total value, followed by Northern Region (23%), Southern Region (14%) and Eastern Region (2%).

**Plastics raw materials exports**



**Value-added plastics exports**

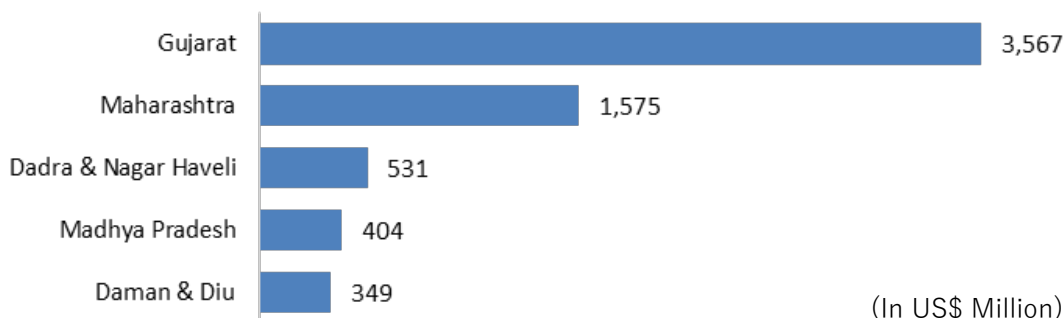


**PLEXCONCIL maintains five offices across the country to support the exporters.**

Western Region	Northern Region	Southern Region	Eastern Region	Gujarat Office
Crystal Tower, Gundivali Road No. 3, Andheri East, Mumbai Maharashtra 400 069	319, Floor 3 Block E In- ternational Trade Tower 99 Nehru Place New Delhi 110 019	Rasheed Mansion Floor 3, No. 408 Anna Salai Chennai Tamil Nadu 600 006	Vanijya Bhavan 1/1 Wood Street Kolkata West Bengal 700 016	909, Safal Prelude Corporate Road Pralhadnagar Ahmedabad GuB 380 015

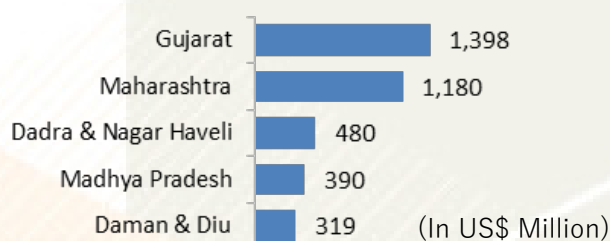
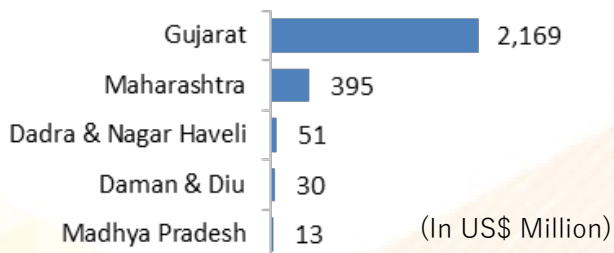
## WESTERN REGION

During 2019-20, Western Region was the top exporter of products under the purview of PLEXCONCIL with value of exports at US\$ 6.49 billion. The Top-5 exporting states within the Western Region were: Gujarat, Maharashtra, Dadra & Nagar Haveli, Madhya Pradesh, and Daman & Diu.



Western Region was the top exporter of plastics raw materials. The Top-5 exporting states of plastics raw materials within the Western Region were: Gujarat, Maharashtra, Dadra & Nagar Haveli, Daman & Diu, and Madhya Pradesh.

Western Region was also the top exporter of value-added plastics. The Top-5 exporting states of value-added plastics within the Western Region were: Gujarat, Maharashtra, Dadra & Nagar Haveli, Madhya Pradesh, and Daman & Diu.



**The Top-5 plastics raw materials being exported from the Western Region were:**

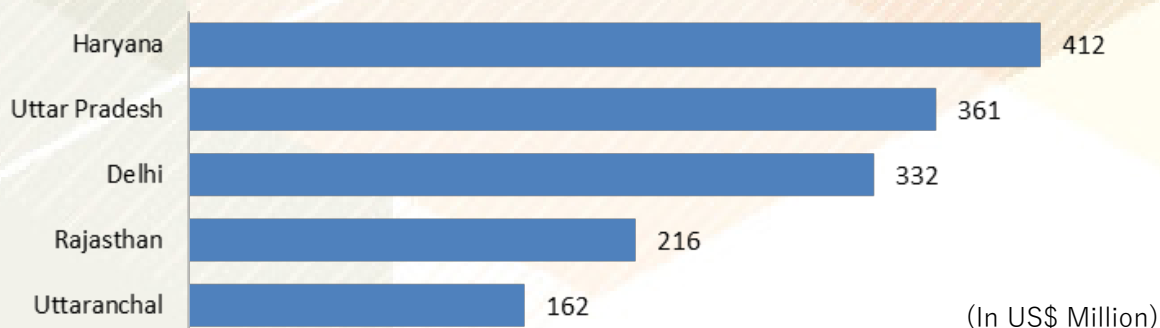
- Polyethylene Terephthalate (39076100), Polypropylene (39021000), Linear Low-Density Polyethylene (39011010), Polyethylene (39012000), and PET in other primary form (39076990).

**The Top-5 value-added plastics being exported from the Western Region were:**

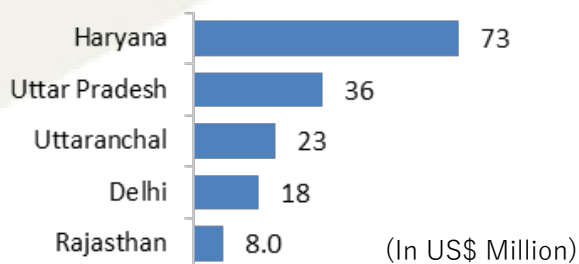
- Flexible Intermediate Bulk Containers (63053200), Sacks and Bags of Plastics (39232990), Optical fibers, optical fibre bundles and cables (90011000), Other article of plastic nes (39269099), and BOPET sheets flexible, plain (39206220).

## NORTHERN REGION

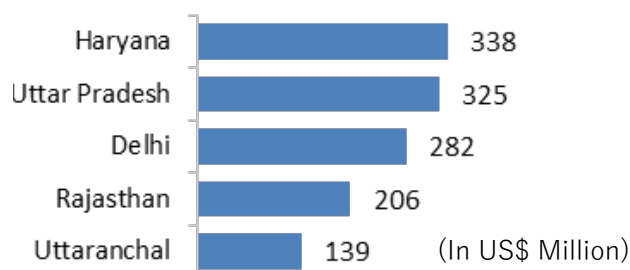
During 2019-20, Northern Region was the second largest exporter of products under the purview of PLEXCONCIL with value of exports at US\$ 1.62 billion. The Top-5 exporting states within the Northern Region were: Haryana, Uttar Pradesh, Delhi, Rajasthan, and Uttaranchal.



Northern Region is not a large exporter of plastics raw materials. Nonetheless, the Top-5 exporting states of plastics raw materials within the Northern Region were: Haryana, Uttar Pradesh, Uttaranchal, Delhi, and Rajasthan.



Northern Region was the second largest exporter of value-added plastics. The Top-5 exporting states of value-added plastics within the Northern Region were: Haryana, Uttar Pradesh, Delhi, Rajasthan, and Uttaranchal.



### The Top-5 plastics raw materials being exported from the Northern Region were:

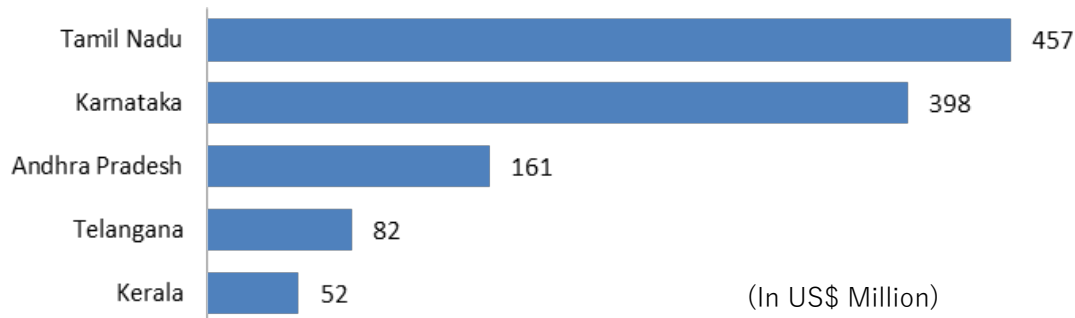
- Polyethylene (39012000), Polypropylene (39021000), Polyethylene Terephthalate (39076100), Other Polyethylene Terephthalate in primary form (39076990), and Linear Low-Density Polyethylene (39011010).

### The Top-5 value-added plastics being exported from the Northern Region were:

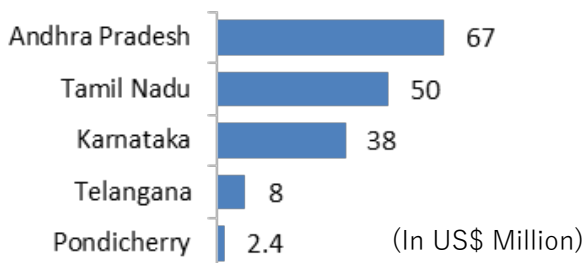
- Decorative Laminates (48239019), Cannulae (90183930), Spectacle lenses (90015000), Other plates, sheets, film foil, strip etc nes (39219099), and Other woven fabrics from strip (54072090).

## SOUTHERN REGION

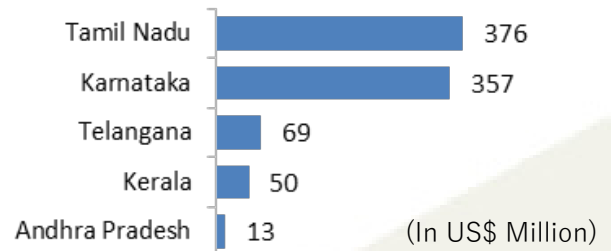
During 2019-20, Southern Region was the third largest exporter of products under the purview of PLEXCONCIL with value of exports at US\$ 1.16 billion. The Top-5 exporting states within the Western Region were: Tamil Nadu, Karnataka, Andhra Pradesh, Telangana, and Kerala.



Southern Region was the third largest exporter of plastics raw materials. The Top-5 exporting states of plastics raw materials within the Western Region were: Andhra Pradesh, Tamil Nadu, Karnataka, Telangana, and Pondicherry.



Southern Region was also the third largest exporter of value-added plastics. The Top-5 exporting states of value-added plastics within the Western Region were: Tamil Nadu, Karnataka, Telangana, Kerala, and Andhra Pradesh.



### The Top-5 plastics raw materials being exported from the Southern Region were:

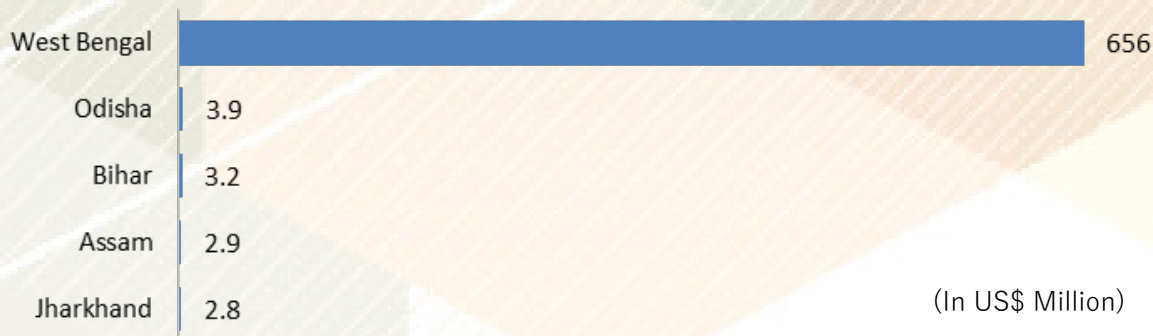
- Polyethers nes (39072090), Acrylic polymers in primary forms (39069090), Other Silicones (39100090), Poly Vinyl Chloride plasticised (39042200), and Saturated polyesters nes (39079990).

### The Top-5 value-added plastics being exported from the Southern Region were:

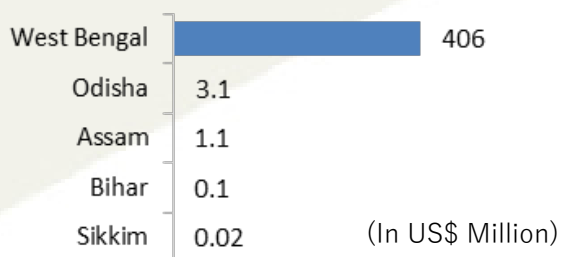
- Flexible Intermediate Bulk Containers (63053200), Other articles of plastic nes (39269099), Spectacle lenses (90015000), Sacks and bags of polyethylene (39232100), and Tooth brushes (96032100).

## EASTERN REGION

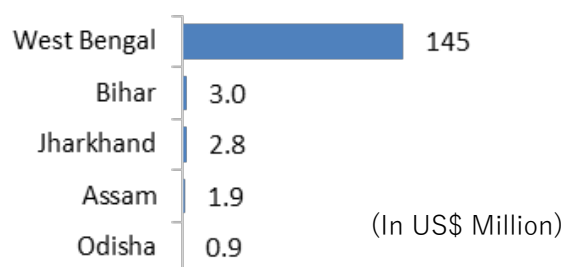
During 2019-20, Eastern Region ranked as the lowest exporter of products under the purview of PLEXCONCIL with value of exports at US\$ 0.67 billion. The Top-5 exporting states within the Eastern Region were: West Bengal, Odisha, Bihar, Assam, and Jharkhand.



Eastern Region was the second highest exporter of plastics raw materials. The Top-5 exporting states of plastics raw materials within the Eastern Region were: West Bengal, Odisha, Assam, Bihar, and Sikkim.



Eastern Region is not a large exporter of value-added plastics. The Top-5 exporting states of value-added plastics within the Eastern Region were: West Bengal, Bihar, Jharkhand, Assam, and Odisha.



### The Top-5 plastics raw materials being exported from the Eastern Region were:

- Polyethylene Terephthalate (39076100), Polyethylene (39012000), Other Silicones (39100090), Phenolic resins (39094090), and Linear Low-Density Polyethylene (39011010).

### The Top-5 value-added plastics being exported from the Eastern Region were:

- Flexible Intermediate Bulk Containers (63053200), Ball-point pens with liquid ink (96081019), Decorative laminates (48239019), Sacks and Bags of Plastics (39232990), and Ball-point pens without liquid ink (96081099).

## Industry Speak

### Gujarat

“We are proud of Gujarat’s achievement of highest export in plastic for 2019-20. Since there is a momentum in production and export, this is the right time to add new capacities in plastic manufacturing and given that Gujarat has a very friendly and conducive industrial environment I am sure the state will attract new investment and retain its top exporter category” - **Jitendra Patel, MD, Crown Decor Pvt Ltd.**

“Exporter in Gujarat enjoy several benefits and advantages that have been drivers for export growth from the state. We have best Ports like Mundra and Pipavav, which are near to us and because of which exporters are able to ship goods faster. It is also easier for exporters get the containers easily with the daily service facility offered by the Container Corporation of India from Ahmedabad to Mundra Port and Pipavav Port. The Packaging Industry especially also enjoys goof support from the State Government which is one of the major reasons for the growth of the sector. While we are proud of our State’s achievements, to tap newer export opportunities, the State should consider the following:

There are numerous small companies in the state and by offering export incentives and benefits, they can be motivated to enter exports. Benefits can also be extended to new exports to motivate them.

The State Government could help us reduce our costing by cutting down electricity cost

Exports will help increase Foreign exchange will also increase in State. There should hence be special incentive for New products and innovative products for Exports to encourage both innovation and exports” - **Alpesh Patel, Director, Knack Packaging Pvt Ltd.**

“Diwali Greetings from Saurashtra Plastics Manufacturer Association. As we are all aware, plastics are among the fastest growing industries in the world. The plastics industry in India is making significant contribution to the economic development and growth of various key sectors in the country which includes automotive, Construction, Electronic, health care and FMCG. The plastics processing industry has the potential to bring in foreign investment and make India a global manufacturing hub.

It has been an immense pleasure to share the growth story heading for Rajkot from AIMS to Plastics Industries. Due to state Industrial policy and Export promotional Policy, there are an upcoming almost 26 woven sacks new manufacturing capacities, through which we expect enormous employment generation. Furthermore, upcoming plants that will boost exports of packaging such as customized BOPP laminated bag, FIBC bag and wovensack bag will all benefit by the RoDTEP scheme. I look forward to both learning and sharing my Experience to work towards council’s goal in further exports from our state” - **J.K.Patel, Vice President, Saurashtra Plastics Manufacturer Association & Managing Director, Elegent Polymer – Rajkot**

The Government of Gujarat aims to continue to promote trade and facilitate exports and export-oriented units, as declared in New Gujarat Industrial Policy 2020. A number of steps have been proposed by the GoG to this effect, including, inter alia, providing good quality logistics infrastructure, providing robust information dissemination and grievance redressal mechanism, setting up exhibitions/ conventions/ trade fairs (particularly for MSMEs) and partnering with leading national and state-level export promotion councils.

Moreover, Gujarat has the benefit of the longest coastline area and ports at Kandla, Pipavav, Mundra, Dahej, Hazira, etc. developed with good infrastructure and many more in the pipeline, which will certainly be beneficial for accesing export visibility in the times to come. As per Niti Ayog think-tank recent report, Gujarat tops the Export Preparedness Index 2020 to evaluate States’ potential and capacities, followed by Maharashtra and Tamil Nadu. The index ranks States on policy, business ecosystem, export ecosystem and export performance. Overall, coastal States emerged as the best performers, with six out of eight coastal States featuring in the top 10 rankings. As per report, the per capita exports in India stood at about \$241, as compared to \$11,900 in South Korea and \$18,000 in China, thereby there remains huge potential to catch up and exports was the way to go to generate employment.

Currently, 70% of India’s export has been dominated by five states – Maharashtra, Gujarat, Karnataka, Tamil Nadu and Telangana. We believe that export promotion in India faces three fundamental challenges – intra and inter-regional disparities in export infrastructure, poor trade support and growth orientation among States, and poor R&D infrastructure to promote complex and unique exports. - **Shailesh Patel, President, GSPMA**

## Assam

“Plastic industries in Assam are mainly SME while few medium scaled. We have organised 2-3 export seminars in Assam earlier and found out that most of the industries comfortable with domestic sales and are scared to export. They have fears and concerns related to doing business in new territories, export payments etc. Furthermore, there are infrastructure issues related to availability of containers, high transaction costs at ICD, and issues related to factory stuffing of export containers from ICD Amingaon. I believe that there is a need for greater awareness regarding exports on a regular basis. Export infrastructure at ICD Amingaon needs to be improved as currently containers are available only during TEA season. It is very difficult to get containers otherwise and the transaction cost is a severe issue for exporters. Exporters from Assam also often face a lot of harassment from custom officials. Tea, Spices, Plastics, Bamboo, Packaging products, are some product categories that have good export potential from Assam” – **Amitt Agarwalt, Director, Abdos Group of Companies**

## Rajasthan

“For plastic industries and specifically our product, raw material, power, transportation form the major cost component. Our polymers come from Gujarat. We manufacture the products for export in Rajasthan and these are sent back to the seaport by train through ICD Gurgaon. Thus, the transport cost becomes a big factor which is incurred both on input and output. Compared to plastic industries located near the port, industries in Rajasthan have a distinct disadvantage that undoubtedly impacts our exports potential for reasons explained. We are not sure what could be the solution to this issue yet, but it definitely should be considered. Perhaps lowering logistic costs, warehousing facilities at port, express freight corridors, reducing or stable raw material costs, etc would help boost the export sector from the State. On the whole however, and as far as our product is considered, we think our export is among the largest few and the State of Rajasthan holds a good share” – **Rajendra Daga, Director, Classic Enterprises Pvt Ltd**

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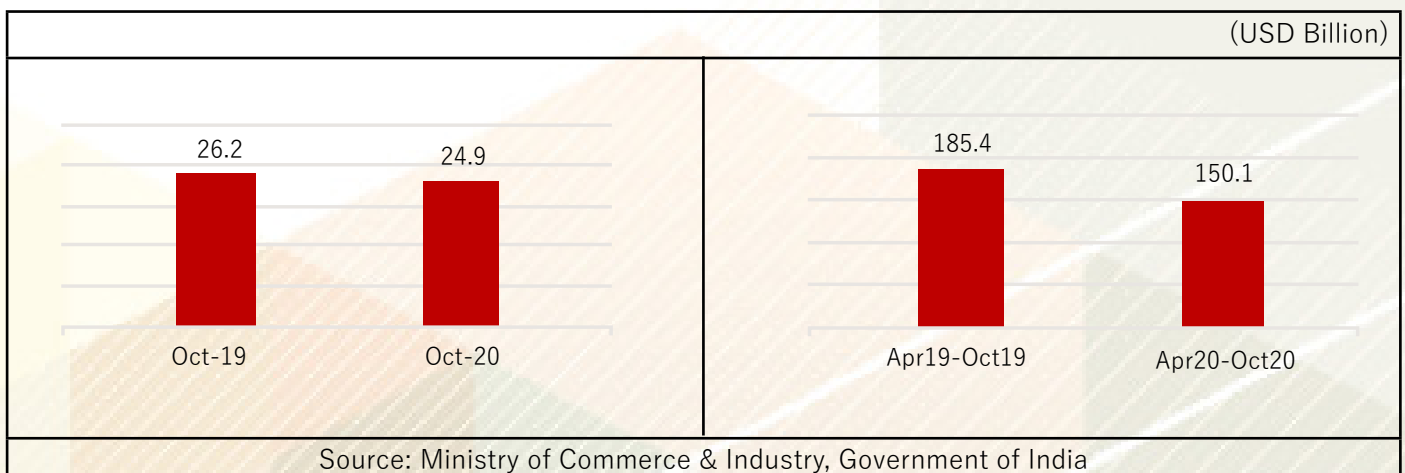


## EXPORT PERFORMANCE - OCTOBER 2020

### TREND IN OVERALL EXPORTS

India reported merchandise exports of USD 24.9 billion in October 2020, down 5.1% from USD 26.2 billion in October 2019. Cumulative value of merchandise exports during April 2020 – October 2020 was USD 150.1 billion as against USD 185.4 billion during the same period last year, reflecting a decline of 19.0%.

**Exhibit 1: Trend in overall merchandise exports from India**

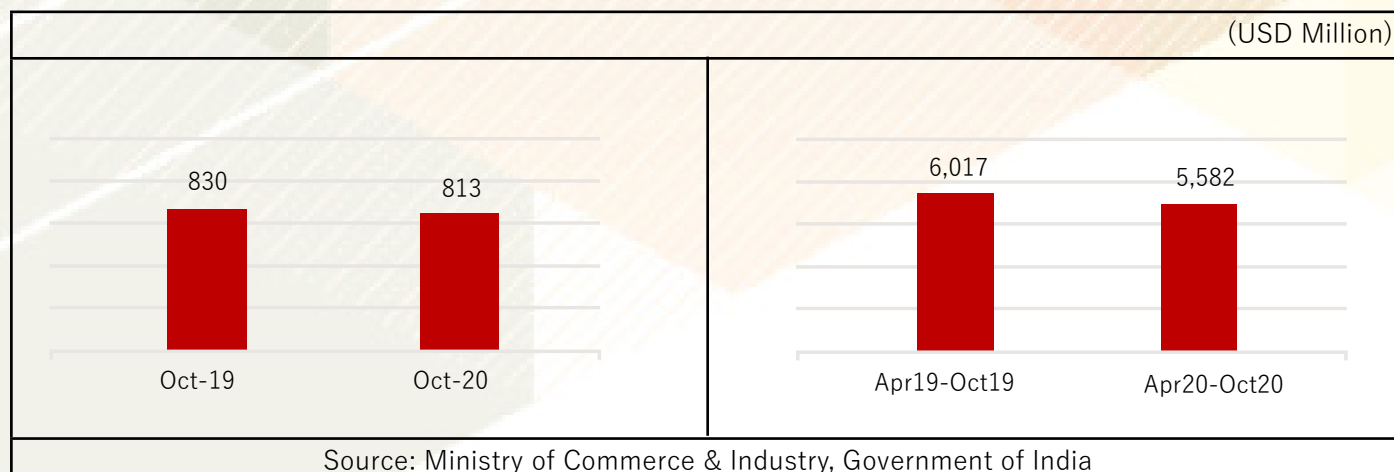


# Export Performance

## TREND IN PLASTICS EXPORT

During October 2020, India exported plastics worth USD 813 million, down 2.7% from USD 836 million in October 2019. Cumulative value of plastics export during April 2020 – October 2020 was USD 5,582 million as against USD 6,017 million during the same period last year, registering a negative growth of 7.2%.

**Exhibit 2: Trend in plastics export by India**



## PLASTICS EXPORT, BY PANEL

In October 2020, seven of the product panels, namely, Consumer & houseware; Cordage & fishnets; Floor Coverings, leathercloth & laminates; Human hair; Pipes & fittings; Rigid packaging & PET preforms; and Miscellaneous products witnessed a positive growth in exports. The remaining panels, particularly, Writing instruments; Raw materials and Polyester films, struggled to perform.

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

Panel	Oct-19	Oct -20	Growth	Apr 19- Oct 19	Apr 20- Oct 20	Growth
	(USD Mn)	(USD Mn)	(%)	(USD Mn)	(USD Mn)	(%)
Consumer & House ware	51.9	52.0	+0.2%	350.7	264.3	-24.7%
Cordage & Fishnets	13.2	14.0	+6.0%	95.8	89.9	-6.2%
Composites / FRP products	28.2	27.7	-1.9%	193.6	150.6	-22.2%
Floor Coverings, Leather cloth & Laminates	34.8	45.8	+31.6%	251.9	236.0	-6.3%
Human Hair & Related Products	20.6	35.8	+73.6%	152.4	175.2	+15.0%
Miscellaneous Products	127.8	140.9	+10.3%	946.4	790.9	-16.4%
Pipes & Fittings	15.2	17.3	+14.4%	107.9	95.0	-11.9%
Polyester Films	124.2	115.6	-6.9%	880.3	894.7	+1.6%
Raw Materials	289.3	240.0	-17.0%	2,120.0	2,193.2	+3.5%
Rigid Packaging & PET Preforms	28.4	28.4	+0.1%	194.7	181.3	-6.9%
Woven Sacks / FIBCs	85.1	81.8	-3.8%	604.3	429.5	-28.9%
Writing Instruments	17.3	14.0	-19.5%	119.1	81.3	-31.8%
	835.9	813.4	-2.7%	6,017.1	5,581.9	-7.2%

Source: Ministry of Commerce & Industry, Government of India

Export of Consumer & house ware products increased by 0.2% in October 2020. The export growth was supported by higher sales of Tableware and kitchenware of plastics (HS code 392410) and Other household and toilet articles of plastics (HS code 392490) to the United States in particular and that of Electrical switches, of plastics (HS code 85365020) to Czech Republic and Turkey.

Cordage & fishnets export witnessed a rise of 6.0% in October 2020 on account of higher sales of Made-up fishing nets (HS code 56081190) to the United Kingdom and Canada, and that of Other knotted netting of twine, cordage or rope of man-made textile materials (HS code 56081900) to Brazil, Turkey, Italy and the United Arab Emirates. Export of Composites fell by 1.9% due to reduced sales of Articles of plastics and articles of other materials of heading 3901 to 3914, nes (HS code 39269099).

In case of Floor coverings, leather cloth & laminates, exports in October 2020 were up 31.6% due to increased sales of Textile fabrics impregnated, coated, covered or laminated with plastics other than PVC or PU: Other (HS code 59039090) to the United States, and that of Decorative laminates (HS code 48239019) to Egypt, Nepal and Saudi Arabia.

Export of Human hair & related products clocked an impressive 73.6% growth due to strong sales of Human hair, dressed, thinned, bleached or otherwise worked (HS code 67030010) to China.

Miscellaneous products export increased by 10.3% in October 2020 due to higher sales of Optical fibres, optical fibre bundles and cables (HS code 90011000) to the United Kingdom, Russia and France; along with improved shipments of Polypropylene articles, nes (HS code 39269080) to the United States.

Export of Pipes & fittings witnessed a growth of 14.4% due to improved sales of various tubes pipes and hoses as well their fittings to the United States and Egypt.

Polyester films witnessed a decline of 6.9% in exports in October 2020 due to lower shipments of Other plates, sheets, film, foil and strip, of plastic (HS code 39219099) to the United States; BOPET sheets and films, flexible plain (HS code 39206220) to Germany, Italy, Russia and Egypt; and BOPP sheets and films, flexible plain (HS code 39202020) to Colombia, Honduras and the United States. It may be noted that India's export of Polyester films has been on a constant decline for three months now.

Plastics raw materials export fell by 17.0% in October 2020 due to lower shipments of Other polymers of ethylene (HS code 39011090) and Polyethylene having a specific gravity of 0.94 or more (HS code 39012000) to China; Polypropylene (HS code 39021000) to China and Vietnam; and Other Polymers of styrene (HS code 39031990) to Bangladesh, Hong Kong and Italy. India had exported large volumes of Plastics raw materials in April and May 2020 due to low domestic demand.

Rigid packaging & PET performs export was near unchanged. The panel witnessed higher sales of Stoppers, lids, caps and other closures, of plastics (HS code 39235010) to Zimbabwe, Portugal, China and the United Kingdom. Export of Woven sacks and FIBCs fell by 3.8% during October 2020 due to decline in sales of Woven fabrics obtained from strip or the like (HS code 54072030 and 54072040) to Afghanistan, Saudi Arabia and the United Arab Emirates. Exports of FIBC (HS code 63053200) rebounded strongly in October 2020.

Export of Writing instruments slipped by 19.5% in October 2020, mainly on account of a decline in sales of Ball-point pens with liquid ink (HS code 96081019) to United States, Saudi Arabia, and the United Arab Emirates.

# Export Performance

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

HS Code	Description	Apr 19-Oct 19 (USD Mn)	Apr 20-Oct 20 (USD Mn)	Growth (%)
39076100	Polyethylene terephthalate: having a viscosity number of 78 ml/g or higher	453.32	-	NM
63053200	Flexible intermediate bulk containers	408.49	346.99	-15.1%
39021000	Polypropylene, in primary forms	286.14	492.91	+72.3%
39012000	Polyethylene with a specific gravity of >= 0.94	259.09	228.49	-11.8%
39232990	Sacks and bags, incl. cones, of plastics (excl. those of polymers of ethylene): Other	220.87	194.08	-12.1%
39011010	Linear low-density polyethylene (LLDPE)	209.65	83.69	-60.1%
39269099	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Other	190.99	148.24	-22.4%
67030010	Human hair, dressed, thinned, bleached or otherwise worked	145.20	168.13	+15.8%
90011000	Optical fibres, optical fibre bundles and cables (excl. made-up of individually sheathed fibres of heading 8544)	145.84	114.78	-21.3%
48239019	Decorative laminates	118.57	106.31	-10.3%
39206220	Plates, sheets, film, foil and strip, of non-cellular polyethylene terephthalate, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of polymethyl methacrylate, self-adhesive products, and floor, wall and ceiling coverings of heading 3918): Flexible, plain	126.66	123.44	-2.5%
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	73.62	51.03	-30.7%
39269080	Polypropylene articles, not elsewhere	100.75	99.81	-0.9%
39232100	Sacks and bags, incl. cones, of polymers of ethylene	94.90	85.73	-9.7%
39076990	Other, polyethylene terephthalate	103.81	87.52	-15.7%
39239090	Articles for the conveyance or packaging of goods, of plastics (excl. boxes, cases, crates and similar articles; sacks and bags, incl. cones; carboys, bottles, flasks and similar articles; spools, spindles, bobbins and similar supports; stoppers, lids, caps and other closures): Other	91.41	82.23	-10.0%
39219099	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked or merely surface-worked or merely cut into squares or rectangles (excl. of cellular plastic; self-adhesive products, floor, wall and ceiling coverings of heading 3918): Other	105.19	61.56	-41.5%
39202020	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918): Flexible, plain	85.56	118.21	+38.2%
39011090	Polyethylene with a specific gravity of < 0.94: Other	95.77	27.88	-70.9%
54072030	Woven fabrics of strip or the like, of synthetic filament, incl. monofilament of >= 67 decitex and with a cross sectional dimension of <= 1 mm: Dyed	84.35	20.70	-75.5%
90015000	Spectacle lenses of materials other than glass	81.29	65.29	-19.7%

## Export Performance

96081019	Ball-point pens	72.20	48.54	-32.8%
39202090	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918): Other	70.07	63.86	-8.9%
39046100	Polytetrafluoroethylene, in primary forms	66.70	55.26	-17.2%
90183930	Cannulae	55.32	54.76	-1.0%
39241090	Tableware and kitchenware, of plastics: Other	54.80	41.58	-24.1%
96032100	Tooth brushes, incl. dental-plate brushes	50.02	36.09	-27.8%
39069090	Acrylic polymers, in primary forms (excl. polymethyl methacrylate): Other	49.00	53.95	+10.1%
39206290	Plates, sheets, film, foil and strip, of non-cellular polyethylene terephthalate, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. those of polymethyl methacrylate, self-adhesive products, and floor, wall and ceiling coverings of heading 3918): Other	47.74	59.73	+25.1%
95030030	Tricycles, scooters, pedal cars and similar wheeled toys; dolls' carriages; dolls; other toys; reduced-size ("scale") models and similar recreational models, working or not; puzzles of all kinds: tricycles, scooters, pedal cars and similar wheeled toys; dolls' carriages; dolls; other toys; reduced-size ("scale") models and similar recreational models, working or not; puzzles of all kinds: of plastics	50.78	45.50	-10.4%
56074900	Twine, cordage, ropes and cables of polyethylene or polypropylene, whether or not plaited or braided and whether or not impregnated, coated, covered or sheathed with rubber or plastics	44.24	41.43	-6.4%
59031090	Textile fabrics impregnated, coated, covered or laminated with polyvinyl chloride (excl. wall coverings of textile materials impregnated or covered with polyvinyl chloride; floor coverings consisting of a textile backing and a top layer or covering of polyvinyl chloride): Other	42.74	32.11	-24.9%
39206919	Plates, sheets, film, foil and strip, of non-cellular polyesters, not reinforced, laminated, supported or similarly combined with other materials, not worked or only surface-worked, or only cut to rectangular, incl. square, shapes (excl. polycarbonates, polyethylene terephthalate and other unsaturated polyesters, self-adhesive products, and floor, wall and ceiling coverings in heading 3918): Other	45.71	42.32	-7.4%
59039090	Textile fabrics impregnated, coated, covered or laminated with plastics other than polyvinyl chloride or polyurethane (excl. tyre cord fabric of high tenacity yarn of nylon or other polyamides, polyesters or viscose rayon; wall coverings of textile materials impregnated or covered with plastic; floor coverings consisting of a textile backing and a top layer or covering of plastics): Other	30.72	71.26	+132.0%
39204900	Plates, sheets, film, foil and strip, of non-cellular polymers of vinyl chloride, containing by weight < 6% of plasticisers, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles (excl. self-adhesive products, and floor, wall and ceiling coverings of heading 3918)	43.06	33.50	-22.2%
39140020	Ion-exchangers based on polymers of heading 3901 to 3913, in primary forms: Ion exchangers of polymerisation	40.02	37.37	-6.6%

## Export Performance

39219094	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked or merely surface-worked or merely cut into squares or rectangles (excl. of cellular plastic; self-adhesive products, floor, wall and ceiling coverings of heading 3918): Flexible, metallised	38.62	47.02	+21.8%
39219096	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials, unworked or merely surface-worked or merely cut into squares or rectangles (excl. of cellular plastic; self-adhesive products, floor, wall and ceiling coverings of heading 3918): Flexible, laminated	36.63	57.24	+56.3%
39199090	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls > 20 cm wide (excl. floor, wall and ceiling coverings of heading 3918): Other	40.43	46.45	+14.9%
39072090	Polyethers, in primary forms (excl. polyacetals): Other	27.49	50.05	+82.1%
39241010	Insulated ware of plastics	30.67	25.03	-18.4%
39073010	Epoxy resins	37.72	22.76	-39.7%
39259090	Building elements for the manufacture of floors, walls, partition walls, ceilings, roofs, etc., of plastic; gutters and accessories of plastic; railings, fences and similar barriers, of plastic; large shelves, for assembly and permanent installation in shops, workshops, etc., of plastic; architectural ornaments, e.g. friezes, of plastic; fittings and similar products for permanent mounting on buildings, of plastic: Other	45.62	13.41	-70.6%
39095000	Polyurethanes, in primary forms	32.04	31.67	-1.2%
39100090	Silicones in primary forms: Other	32.66	20.71	-36.6%
39235010	Stoppers, lids, caps and other closures, of plastics: Caps and closures for bottles	27.94	28.63	+2.5%
39129090	Cellulose and chemical derivatives thereof, n.e.s., in primary forms (excl. cellulose acetates, cellulose nitrates and cellulose ethers): Other	31.09	32.65	+5.0%
39119090	Polysulphides, polysulphones and other polymers and prepolymers produced by chemical synthesis, n.e.s., in primary forms: Other	28.87	29.68	+2.8%
39031990	Polystyrene, in primary forms (excl. expansible): Other	36.79	19.94	-45.8%
39269069	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Other	26.42	17.52	-33.7%



## International News

### Scientists awarded £2.6million to examine environmental impacts of biodegradable plastics

Biodegradable packaging and products are seen by many as part of the solution to the global plastics crisis. However, until now, there has been very little research examining their precise fate and impact in the open environment. To address that, a team of UK scientists has been awarded £2.6million for a four-year project assessing how these materials break down and, in turn, whether the plastics or their breakdown products affect species both on land and in the marine environment.

BIO-PLASTIC-RISK is being supported by a grant from the Natural Environment Research Council, part of UK Research and Innovation. It is being led by researchers at the University of Plymouth, including its world-renowned International Marine Litter Research Unit, working alongside colleagues at the University of Bath and Plymouth Marine Laboratory.

The project brings together a team of marine and terrestrial biologists, material and polymer scientists, and ecotoxicologists, and will expand on extensive previous research by the partners into the causes and effects of microplastic pollution.

Among its key objectives will be to develop a better understanding of biodegradable materials, how they react on entering the environment, and how their characteristics can be tailored to minimise any potential risks. It will also explore any effects the chemicals added to the plastics might have on organisms, how that in turn affects wider ecosystems and whether certain parts of our environment are more at risk than others.

In addition to the academic involvement, the project partners include representatives from the global textiles

and packaging industry, and an advisory group representing Government agencies, biodegradable bioplastics producers, commercial users, water authorities and NGOs.

Researchers believe the project will ultimately also be of interest to sustainability experts and social scientists, helping to guide understanding about any positive effects biodegradable materials can have for the circular economy and to inform behaviour change initiatives in relation to packaging choices and disposal.



## UNIVERSITY OF PLYMOUTH

Professor Richard Thompson OBE FRS, Head of the International Marine Litter Research Unit at the University of Plymouth, is Principal Investigator on the project. His team previously coordinated research which showed that biodegradable bags can hold a full load of shopping three years after being discarded in the environment. He said: "This is a truly ground-breaking project. For years, biodegradable materials - including plant-based bioplastics - have been highlighted for their potential to reduce the environmental impact of packaging waste. However, there hasn't been the detailed research to identify precisely how that might be achieved. Through this project, we hope to establish, in the open environment as opposed to managed waste systems, what works and what doesn't, in terms of the materials' characteristics and effects. But we can also explore how best to bring about the changes required to move from our throwaway society and help maximise the benefits of plastics without the current levels of largely unintended environmental and economic impacts."

Source: [www.eurekalert.org](http://www.eurekalert.org)

## Engineers Used Novel Solvent-Based Method to Recycle Plastics

Engineers from the University of Wisconsin-Madison have created a new solvent-based method in recycling plastics, particularly the multi-layered plastics used in food and medicine packaging.



Multi-layered plastics are used on these products because of its heat resistance and oxygen and moisture control properties ensuring storage stability to food items and medicine. However, their utility comes with a price as they are hard to recycle using existing methods. Each year, there are about 100 million tons of multilayer plastics produced, wherein each of them has as many as 12 layers of various polymers. It creates 40% of its waste during manufacturing and since there is no way to separate polymers, most of them end up in the land-fill, according to Science Daily.

But now, engineers have created a novel way of recycling polymers using a solvent which they call the Solvent-Targeted Recovery and Precipitation (STRAP) processing.

**STRAP: The Solvent-Based Method to Recycle Plastics**  
The study, published in Science Advances, explains that using a series of solvent washes guided by thermodynamic calculations of polymer solubility the STRAP method can separate polymer in multilayer plastics, like ethylene vinyl alcohol, polyethylene, and polyethylene terephthalate.

The team hopes that the recovered polymers can be used to create plastic materials to show that the method can close the recycling loop of polymers. More specifically, STRAP could allow manufacturers of multi-layered plastics to recover 40% of the plastic waste produced during the first phase of the production. "We've demonstrated this with one multilayer plastic," says chemical engineering professor George Huber. "We need to try

other multilayer plastics and we need to scale this technology."

It has become more difficult to identify solvents that can dissolve each polymer as the complexity of polymers increases. Biological engineering Reid Van Lehn uses a computational approach with regards to this in which he applied to STRAP. This is called the Conductor-like Screening Model for Realistic Solvents (COSMO-RS).

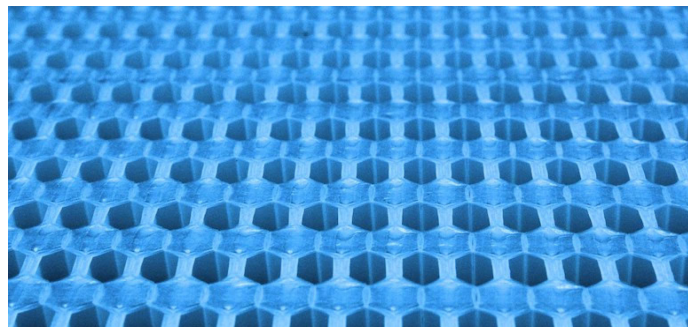
### *Using Solvents to Dissolve Polymers*

The COSMO-RS can calculate the solubility of each polymer in solvent mixtures at different temperatures that narrow down the number of solvents that could dissolve it. In that way, the researchers can experiment with possible solvents to be used. "This allows us to tackle these much more complex systems, which is necessary if you're actually going to make a dent in the recycling world," Van Lehn said. Eventually, the researchers wanted to create a computational system that can find solvent combinations to recycle any types of multilayer plastics. Also, they want to see how these solvents will affect the environment when used and establish a database of green solvents that balances the efficacy, cost, and environmental impact of different solvent systems. For now, the engineers continue their STRAP research through the newly established Multi-University Center on Chemical Upcycling of Waste Plastics.

Source: sciencetimes.com

## Audi Contemplates Honeycombs for Composite Battery Casings

Belgium-based EconCore has entered into a partnership involving AZL, Audi and others to establish the potential of using composites for battery housings. This eight-month collaborative project will assess the technical challenges, opportunities, and benefits of developing battery casings for electric vehicles using a variety of materials, including thermoplastics.



The project has been established by industry network group AZL, who specializes in composite-based lightweight technologies and seeks to drive innovation though sharing knowledge.

According to statista.com and marketsandmarkets.com the global battery housing market for electric vehicles is projected to have an annual growth rate of over 13 percent across the next seven years. Today, battery housings are almost entirely made from aluminum or steel. The industry membership group believe there is huge potential in this area to use lighter composite materials. Tomasz Czarnecki, COO of EconCore said: "After successfully establishing the use of the technology in automotive interiors, we feel there is tremendous potential in using composite materials for battery housings and EconCore is now actively working with Audi and other industrial partners, to explore opportunities and to learn how the thermoplastic honeycomb technology can be applied into this area."

The first phase of this project will be focused on understanding what the potential opportunities and challenges are. For the EconCore team, this means pre-selecting thermoplastic materials, using different composite skin layers and working through different geometrical design variants, to optimize the honeycomb material to obtain desirable characteristics and share findings with project partners.

A primary goal for electric vehicle OEMs is to increase vehicle operating range through weight reduction, without compromising on strength and quality. Czarnecki added: "There's no doubt there are some interesting opportunities to reduce weight using composite materials. We believe there are even greater potential benefits from using honeycomb sandwich materials, which have incredible strength, while being extremely light, compared to aluminum or steel alternatives."

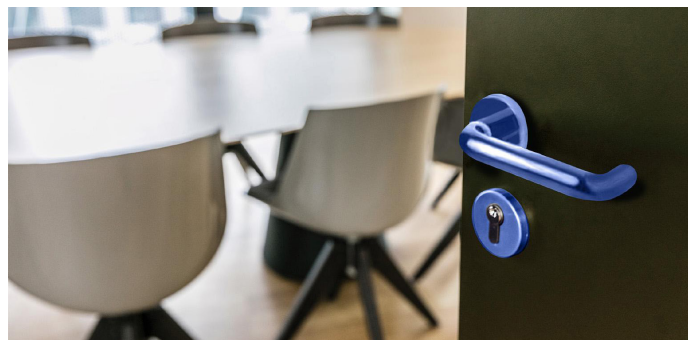
EconCore already has experience using honeycomb material in vehicle interiors, which can be compression moulded to produce three dimensional shapes. If the initial phase goes well, the plan is to progress to a prototyping stage.

Czarnecki concluded: "It's important we don't get ahead of ourselves. Part of the process is to also understand things like design, material, and the likely production costs. These are also critical factors in addition to the potential lightweighting benefits, that must be assessed. It must make economic sense too. However, we remain optimistic. With our journey through automotive interiors so far, we have seen that that the thermoplastic honeycomb technology delivers opportunities to save costs on both ends, material and conversion."

Source: Plastics Today

## Trelleborg Launches Anti-Microbial System for Polyurethane Materials

Trelleborg has announced the launch of its new AMV Shield anti-microbial system for polyurethane materials. AMV Shield offers anti-viral, anti-bacterial, anti-fungal, and anti-mold properties, providing up to 99.9% bacteria and virus reduction. AMV Shield can be integrated into Trelleborg's polyurethane and recyclable thermoplastic polymer materials to provide passive anti-microbial protection in a range of applications, including handles and grab rails.



The AMV Shield system uses specially prepared silver particles to embed anti-microbial nano particles into Trelleborg's polyurethane materials. It protects against microbes including MRSA, influenza A H1N1, VRE, C-Difficile and E. Coli.

"Materials made using AMV Shield do not leach into the environment, meaning they will last for more than 25 years and can safely be used in food packaging and distribution," said Terry Cooper, Managing Director for Trelleborg's applied technologies operation in Retford, UK, "AMV Shield is suitable for a wide range of applications including handles and grab rails, packaging and boxes, protective covers and casings, or even floor squeegee blades."

Source: Plastics Today

## Clear Shrink Films Approved for Store Drop-Off Recycling

High-performance polyolefin shrink films maker Clysar's new EVO and EVOX recyclable shrink films are approved for the Store Drop-Off label by the How2Recycle program. The films allow brand packagers and retailers to meet critical package recyclability goals, fulfill retail labeling mandates, and address increased consumer demand for sustainable packaging.

Most shrink films are not recyclable under current protocols and can only be labeled on products as "not yet recyclable." The films are engineered to run on virtually all models and makes of appropriate packaging equipment.

## Introducing Clysar® EVO™ Family of Recyclable Films

Reducing Impacts, Making Actionable Package Improvements



Clysar® EVO™ all-purpose recyclable films



Clysar® EVOX™ high-speed, high-strength films



Prequalified by **How2Recycle®** for Store Drop-Off

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Offering excellent optics, clean, even shrink and strong seals, Clysar Evo All-Purpose Films are tailored for most retail packaging applications and run on most shrink-packaging equipment under a wide range of operating conditions.

Clysar Evox High-Speed, High-Strength Films are ideal for high-speed packaging applications requiring extra strength, protection and durability. The materials provide a high-performance solution for demanding products including heavy multipacks or irregular product or bundle shapes. The Evo family of films were developed in collaboration with the Sustainable Packaging Coalition and verified by third-party testing to meet the requirements of the Association of Plastics Recyclers, ensuring they are safe and fully acceptable for Store Drop-Off recycling.

“These films are unique in our market, both from a recyclability standpoint as well as overall performance,” says Vicki Larson, president. “They also provide a wider operating window. Clysar has invested heavily over the past several years to support significant Evo film family growth for these recyclable solutions. Our patented manufacturing processes provide an operational and formulation flexibility that’s not widely available in this market.”

## NEW Clysar® EVO™ Films

Prequalified for the **How2Recycle®** Store Drop-Off Label



According to Larson, Evo is a drop-in replacement for a customer’s current shrink film while Evox has unique characteristics that offer end users the ability to improve uptime and overall package appearance. The materials are on-trend with a consumer preference for sustainable packaging. During a presentation at last week’s Pack Expo Connects virtual tradeshow, Larson cited a study conducted by The Boston Group that about 66% of consumers said environmentally friendly, recyclable packaging is important and 74% said they would pay more for it.

These consumer trends parallel numerous broad-based sustainable packaging goals and programs underway or announced by end-user brands and customers. Larson acknowledges that some consumer-packaged goods customers will shift business from the Clysar’s current films to the Evo family solution, though that likelihood is outweighed by Evo films’ potential in an environmentally conscious market.

“We’re excited to see an incredibly high interest level,” she says of the initial reaction to the new products, adding that “we have applications of Evo and Evox in the market in both single-unit and multipack packages.” The films are manufactured at the company’s Clinton, IA, headquarters location.

Source: Plastics Today

## Coca-Cola Terminates Agreement with Loop Industries

Coca-Cola Cross Enterprise Procurement Group (CEPG) has informed Loop Industries of its intention to terminate the Master Terms and Conditions (MTC) Supply Agreement for Loop PET plastic, dated Nov. 14, 2018. The notice was received by Loop on Oct. 29, 2020, and the termination is effective Dec. 14, according to a Nov. 4 report in MarketScreener.

“The MTC was a multi-year agreement that enabled members of CEPG to enter into supply agreements with Loop for the purchase of PET plastic from the company’s as-yet unfinished joint-venture facility, to be established in Spartanburg, SC, with Indorama Ventures PLC, to incorporate Loop PET plastic into its product packaging,” said the report.



“CEPG advised the company that it is terminating the MTC because [Loop] did not satisfy its first production milestone from the joint-venture facility by July 2020, as required by the MTC. CEPG indicated in the notice that it is open and interested in exploring a new framework agreement with the company for North America and/or Europe,” according to MarketScreener.

Delays in completing the facility in Spartanburg because of the COVID-19 pandemic and continued border closures and quarantine requirements between Canada and the United States were cited as some of the reasons for the termination. “The company intends to engage with CEPG regarding the joint-venture facility when it has more clarity on the commissioning as well as for its planned Infinite Loop European project,” said the MarketScreener report.

While no mention was made of a report produced by Hindenburg Research last month that put Loop Industries’ technology in a less-than-positive light, the negative press generated by the Hindenburg report couldn’t have helped Coca-Cola’s confidence in the project.

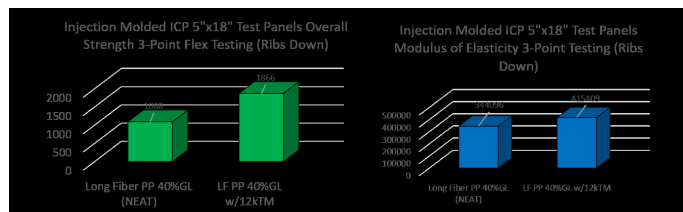
Source: Plastics Today

## Thermoplastic tension members to reinforce molded parts

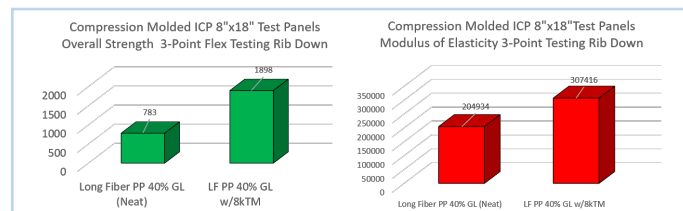
Until now, designers looking for high strength and stiffness performance properties in high demanding short and long glass filled PP applications have had to make some difficult choices... continue to increase the wall thickness and rib height of the molded part; thus increasing the weight and dimensions of the part, or switch out of PP to a more expensive glass filled nylon material and make do with the added weight and higher costs.

Robert Wick, director of product development explains: “These new Tension Members (TMs) are essentially continuous fiber reinforced rods that are inserted in the mold and strategically placed at the bottom of a molded rib before the Polypropylene plastic is injected. When a molded part is stressed, it normally fails at the bottom of the rib. By placing these “rods” directly to the bottom of the rib, the force is distributed across the entire rib; thus, dramatically increasing the load capacity and overall stiffness of the molded part.”

In injection molded 5” wide x 18” long x 1” deep panels processed in 40% long fiber glass filled PP, using this patented technology provides flex strength improvements of 72% and flex modulus improvements of 21% without increasing any of the part weight.



In compression molded 8”wide x 18” long x 1” deep panels using the same 40% long fiber glass filled PP, the property improvements are even greater obtaining flex strength improvements of 142% and flex modulus improvements of 50%, again not impacting the part weight.



These tension members are targeted towards large panel applications and parts that may have a slight bend in them. Typical applications would be boards, scaffolding, bins, shelving, pallets, bumper beams, seatbacks, tailgates, and other similar large structures.

Wick adds: “In addition, when these polypropylene TMs are used in conjunction with glass filled PP, the entire part is still completely recyclable because the TMs are also made of thermoplastic PP and glass.”

Tension members are manufactured and sold based on the number of glass filaments within the TM and the overall length of TM. For example, an 8,000 filament (i.e. 8,000 individual strands of fiber) product has an overall diameter of .090” round and sells for around \$.034 (i.e. 3.4 cents) per foot at high volume. A 12,000 filament product is .160” in diameter and sells for approximately \$.061 (i.e. 6.1 cents) per foot at high volumes. ICP can vary the number of filaments in the TM to meet the application needs and rib size.

Production is done in their Winona, Minesotta site and product is readily available and applications are being sampled and developed.

Source: jecomposites.com

## Braskem, Haldor Topsoe achieve first production of bio-based MEG from sugar

Braskem, the largest petrochemical company in the Americas and a world leader in the production of bio-polymers, and Haldor Topsoe, a global leader in supply of catalysts, technology, and services for the chemical and refining industries, have announced that they achieved their first-ever demo-scale production of bio-

based monoethylene glycol (MEG). As a result of the collaboration between the two companies, the MOSAIK technology development has been progressing according to schedule at the demonstration unit located in Lyngby, Denmark.

The demonstration unit was started up in 2019 with the primary goal to demonstrate all key design features of the pioneering technology that transforms sugar into renewable MEG. Since then, the remaining process units of the plant have been built and put into operation, and the production process has been optimized.

MEG is a raw material for PET (polyethylene terephthalate), which has numerous applications and is an essential feedstock in sectors such as textiles and packaging, especially beverage bottles. Currently, MEG is predominantly made from fossil-based feedstocks, such as naphtha, gas, or coal. The global MEG market represents a value of approximately US\$ 25 billion. The technology will also co-produce, in a lower quantity, monopropylene glycol (MPG), which has a wide variety of applications ranging from unsaturated polyester resins (UPR), commonly used in construction materials, to cosmetic products.

The next phase will involve providing samples to strategic partners for testing and validation. The results of the demonstration plant operations and the validation of products will be essential for the decision to deploy the technology on a commercial scale.

The development of bio-MEG is strategic to Braskem. “This first-ever production of MOSAIK-MEG is a major step forward in our project and underlines Braskem’s commitment to the Circular Economy through renewable chemicals. This technology has the potential to revolutionize the PET market. That’s why we are increasingly closer to start building this new value chain, so we can deliver the sustainable solution that society is looking for”, says Gustavo Sergi, executive officer of Renewable Chemicals and Specialties at Braskem.

“We are extremely pleased to have achieved the first production of bio-based MEG together with Braskem. Topsoe’s strategic vision is to deliver technologies to reduce or even eliminate carbon emissions from the production of fuels and chemicals. Advancing technologies to produce bio-based chemicals and making them a commercially attractive option is an essential step on the way to a more sustainable future,” says Kim Knudsen, Chief Strategy & Innovation Officer at Haldor Topsoe.

Source: Indian Chemical News

# India News

## India terminates anti-dumping probe on MEG imports from Saudi Arabia

India has dropped the anti-dumping investigation on imports of Mono Ethylene Glycol (MEG) coming from Kuwait, Oman, Singapore and UAE. The investigation was initiated based on an application filed by Reliance Industries Limited (RIL) which withdrew the application last week.

RIL, in February 2020, requested the Directorate General of Trade Remedies (DGTR) to terminate the investigation in respect of imports of Mono Ethylene Glycol from Saudi Arabia. Further, Reliance requested the DGTR to continue the investigation and recommend for imposition of provisional anti-dumping duty in respect of imports of subject goods from Kuwait, Oman, Singapore and UAE.

The DGTR issued a notice in April terminating the anti-dumping investigation concerning imports of —Mono Ethylene Glycol (MEG or Ethylene Glycol)‖, against Saudi Arabia, and noted that the investigation in respect of imports of subject goods originating in or exported from Kuwait, Oman, Singapore and UAE shall continue.

In a letter dated 18 Nov 2020, Reliance withdrew the application filed in the subject matter stating that in view of the current situation, they have withdrawn the aforesaid application with a liberty to resubmit the same, the DGTR said.

MEG is a major feedstock used to produce polyester fibres, films and resins besides adhesives, inks and cellophane.

Source: Indian Chemical News

## Adani Port ranks 14th in Dow Jones Sustainability Emerging Markets Index

The latest scorecard of the highly anticipated Dow Jones Sustainability Emerging Markets Index has ranked Adani Ports and Special Economic Zone (APSEZ) at number 14 in the global transportation and transportation infrastructure sector and is the only company from India to have been included in this sector.



This initiates the presence of APSEZ on the DJSI Emerging Markets Index, one of the most sought-after sustainability indices in the world that represents the very top 10% of the largest 800 companies within the world's 20 emerging markets and is based on long-term environment, social and economic and governance criteria. APSEZ was ranked in the top 20 of every single dimension of the three criteria. In all, just 11 Indian companies made it to the DJSI Emerging Markets Index this year.

Speaking on the occasion, Karan Adani, Chief Executive Officer and Whole Time Director of APSEZ said, “As the largest multi-port operator and logistics player in one of the fastest growing markets in the world we recognize the complexity that we are confronted with and therefore being able to achieve this high ranking on our debut into the DJSI Index comes as a shot in the arm for us as well as validates our accountability to our investors, customers, and employees.”

“While our Environment, Social and Economic, and Governance criteria scores are a strong validation that we are on the right path, we really see this as just one point along a more ambitious journey we have embarked on to demonstrate our absolute commitment to benchmarking our sustainability practices - not just to an emerging market index - but to global indexes, as we move towards becoming the only carbon neutral port by the year 2025,” added Adani.

Source: Indian Chemical News

### Indian CIOs to accelerate digitization in 2021

India's CIO will accelerate digital transformation by positioning it not just as a growth enabler but as a survival necessary strategy according to the latest forecast by Gartner. Speaking at Gartner IT Symposium/Xpo India, Arup Roy, research vice president, Gartner said, “The COVID-19 pandemic stalled many digital transformation projects for Indian enterprises, mainly because of the market uncertainties and reduced cash flows.”



“Organizations that were digitally sound in a pre-pandemic world could contain the impact on their business. The pandemic situation was a wake-up call for many organizations to relook and revive their IT strategies and increase their spending on IT in 2021,” added Roy.

In 2021, IT spending growth will return as CIOs start positioning IT as not just a growth enabler, but a ‘survival necessary’ strategy. While all segments will experience an increase in spending, the enterprise software segment will achieve the highest growth of 13.6%, followed by data center systems at 8.3%.

“The ‘Digital India’ mission will turn a new leaf in 2021 as enterprises across all sectors start spending more on IT. The pandemic provided an opportunity for Indian CIOs to test long-pending projects such as remote working, which delivered on-promise for many enterprises and helped them stay afloat in the most testing times,” said Roy. “The success of these digital innovations has brought back the focus on investments in IT,” added Roy.

In 2020, the devices and data center systems segments experienced the steepest declines, as spending dropped 26% and 1.2%, respectively. Contrary to other

markets where spending declined across all segments, CIOs in India continued to spend on enterprise software, IT services and communication services in 2020. These segments are expected to grow 7%, 3.7% and 4.9%, respectively.

In 2021, the focus of IT spending will be in becoming a true digital business. CIOs in India will direct their IT spending budgets towards accelerating digitization efforts. Spending is expected to increase on technologies including advanced analytical solutions, access management, encryption software, desktop as a service, cloud, and hyper automation enabling systems. IT solutions such as robotic process automation (RPA), Artificial Intelligence (AI), Machine Learning (ML) and digital commerce will also experience an increase in spending. IT spending in India is projected to total \$81.9 billion in 2021, an increase of 6% from 2020, according to the latest forecast by Gartner while in 2020 it is expected to total \$79.3 billion, down 8.4% from 2019.

Source: Indian Chemical News

### Infosys partners with Ellen MacArthur Foundation to drive sustainability

Infosys, a global leader in next generation digital services and consulting, has partnered with the Ellen MacArthur Foundation charity. The organisations will work together to accelerate the global transition to a circular economy. The Foundation works with its Network of Strategic Partners, Partners, and Members. Infosys has joined the Network as a Partner. The Network includes some of the world's leading and most influential organisations, including businesses, governments, educators, innovators, and investors, to drive systemic change. The collaboration coincides with the launch of the strategic Sustainable Business Unit within Infosys, which will enable customers to better incorporate circular designs into their products, services, and supply chains.



The Ellen MacArthur Foundation develops and promotes the idea of a circular economy. It works with, and inspires, business, academia, policymakers, and institutions to mobilise systems solutions at scale, globally. The circular economy offers an alternative to the linear ‘take, make, waste’ linear economy - one which is better

for people, the economy, and the environment. The circular economy is based on three key principles - design waste out of the system, keep products and materials in use, and regenerate natural systems.

Infosys will focus on aligning its digital transformation toolkit - Live Enterprise Suite - with the Foundation's circular economy performance measurement tool, Circulytics. Circulytics enables companies to measure their circular economy performance and identify opportunities to adopt, or further embed, circular practices, thereby driving the transition to a circular economy. Infosys will be able to achieve circular design of products, services, and supply chains much more quickly by reusing and repurposing customers' existing technology stacks, rather than replacing them.

The Partnership follows the recent announcement that Infosys has become a PAS 2060 certified carbon neutral company - 30 years ahead of the timeline set out in the Paris Agreement on climate change. Additionally, 34 of the company's buildings have the highest level of green building certification and no wastewater is discharged from any of its campuses. Now, as a system integrator dedicated to doing the right thing since inception in 1981, Infosys is well placed to take the technology conversation forward on circularity.

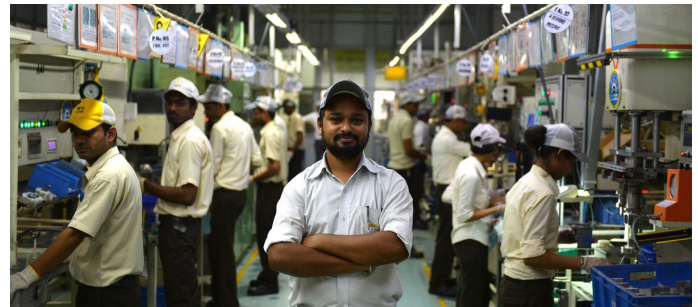
Cory Glickman, Head of Sustainable Business, Infosys, said: "Being a Partner of the Ellen MacArthur Foundation is a valued relationship that allows us to continue at pace the work we've already been doing to promote the importance of efficient practices and supply chains. Infosys believes there is a symbiotic relationship between digitisation and sustainability and through aligned strategies and clever design - particularly on circularity - you can achieve both, with just one pocket of spending."

James George, Network Development Lead, Ellen MacArthur Foundation, said: "I am very excited to see how this relationship develops and deepens over the next few years. As a global leader in nextgen digital platforms, Infosys will bring a calibre of expertise and knowledge that will further help the Network to realise its digital ambition, which will support the transition towards a circular economy. As a Partner with the Foundation, Infosys have drawn a line in the sand, to embrace a circular economic framework as part of their future value proposition."

Source: Indian Chemical News

## Labour welfare: Appointment letter, free health check-up must for factory, construction workers over 45 yrs of age

All establishments will require to issue appointment letters delineating skill, wages and growth avenue and foot the bill for annual free-of-cost medical examination for all factory, mine and construction workers above 45 years of age. These are among the highlights of the draft rules released by the government, under the operational safety, health and working conditions (OSH) Code that came into effect recently.



While Code itself caps the work time in a week at 48 hours, the draft rules have stated that, "The period of work of a worker shall be so arranged that inclusive of his intervals for rest, shall not spread over for more than twelve hours in a day. The period of works of workers shall not exceed five hours and that no worker shall work for more than five hours before he has had an interval for rest of at least half an hour."

The rules also provide for safety of women employment in all establishment for all type of work before 6 am and beyond 7 pm with their consent. In calculating overtime on any day, a fraction of an hour between 15 to 30 minutes shall be counted as 30 minutes; at present less than 30 minutes is counted as no overtime.

Further, safety committees are proposed to be made mandatory for every establishment employing 500 or more workers to provide an opportunity for the workers to represent their concern on occupational safety and health matters.

As for payment of wages to contract labour, the contractor shall fix the wage periods and no wage period shall exceed one month. Also, the wages of every person employed as contract labour in an establishment or by the contractor shall be paid before the expiry of seventh day after the last day of the wage period. The wages shall be disbursed through bank transfer or electronic mode only.

The OSH Code, 2020, covers dock workers, building or other construction workers, mines workers, inter-state migrant worker, contract labour, working journalists, audio-visual workers and sales promotion employees.

The draft rules, to be kept open for suggestions from the stakeholders for the next 45 days before finalisation, proposes an all-India single licence for contractor supplying or engaging contract labour in more than one state for five years as against work order-based licensing system at present.

Rituparna Chakraborty, co-founder and executive vice-president, Teamlease, said, "Overall, the rules are practical and is balanced assigning clear accountabilities for all stakeholders involved – workers, employers and contractors."

The rules also propose that an employer will have to pay a lump sum amount on account of fare for to & fro journey to inter-state migrant worker by train, not less than II Class Sleeper, or by bus or any other mode of passenger transport from the place of employment to the place of residence in the home state in case he has worked for a period of not less than 180 days in the concerned establishment in preceding twelve months.



Women have been allowed to work in the night shift; but the employer will have to seek their consent and provide pick-up and drop facility at her residence for such employees; the workplace including passage towards conveniences or facilities concerning toilet, washrooms, drinking water, entry and exit of women employee should be well-lit and the toilet, washroom and drinking facilities should be near the workplace where such women employee are employed.

Immediately after taking over, the Modi 1.0 government embarked on amalgamating numerous central labour acts into four codes. The code on wages that universalises minimum wages was passed last year and the draft rules under the code has also been notified.

Source: FE

### Momentum to continue, more steps in the works, says FM Nirmala Sitharaman

Finance Minister Nirmala Sitharaman on Monday stressed that the momentum of economic reforms will continue with a view to making India a hot global investment destination, seeking to assure India Inc that several more steps are in the offing. Even as the economy is witnessing a reset after the lifting of lockdown, "we are making sure viable units don't suffer", she said.



Speaking at a CII event, Sitharaman said: "More reform related steps are being taken up and the financial sector is being increasingly professionalised. We will go with greater momentum for the disinvestment of those entities that have been cleared by the Cabinet. Even at the time (of) Covid pandemic, the Prime Minister has not lost an opportunity to take deep reforms of kinds which have not seen the light of the day over the decades," she said.

The government had budgeted an ambitious disinvestment target of Rs 2.1 lakh crore for FY21, hoping to garner a substantial chunk of non-tax revenue to partly make up for a lower-than-expected rise in tax collection, even before the pandemic spread its tentacles.

Of the total target, Rs 1.2 lakh crore is to come from the divestment of public-sector under takings and another ` 90,000 crore from a minor stake sale in LIC and the off-loading of the government's residual stake (47.11%) in IDBI Bank. But no disinvestment has taken place so far this fiscal due to the pandemic. Earlier this fiscal, Sitharaman had said the Cabinet had cleared disinvestments of the government's stake in 22-23 central public-sector enterprises. The leading corporations that have been on the block since last year include BPCL, Air India, Shipping Corporation and Container Corporation.

Vedanta Ltd, the India arm of Anil Agarwal-controlled, London-headquartered Vedanta group said it formally evinced interest in state-run oil refiner and marketer BPCL. While the government had confirmed receipt of "multiple expressions of interests" from domestic and

foreign firms for the controlling stake in the oil major by the November 16 deadline. Vedanta is the only potential bidder to have confirmed it's in the fray.

Explaining the government's idea behind the Aatmanirbhar Bharat initiative, the minister said this is more a call to "make sure our skills are of utilised optimally and India stands solidly on its own strength" despite the pandemic. She made it clear that this campaign isn't about blocking imports and keeping India away from international trade; rather, it's about realising India's own manufacturing potential and to ensure that the country becomes a major investment hotspot.

Source: FE

### **GST registration process in for overhaul**

The Goods and Services Tax Council will soon consider comprehensive changes to the registration process for new applicants which will make the process stringent for those not opting for the Aadhaar-based authentication, government sources said. The new regulations are aimed at curbing fly-by-night operators who use fake invoices to avail input tax credit (ITC).

The law committee of the GST Council that met last week has submitted its recommendation on both fresh registrations and on weeding out existing risky taxpayers that are more likely to be involved in the scam. Sources said that suggestion are based on need to curb fake invoice menace while retaining simple compliance norms under GST.



Existing registrants can be suspended on displaying risky behaviour, including non-filing of return for six months, high proportion of tax payment through ITC and suspicious income-tax profile, sources said. Currently, around 6 lakh GST taxpayers are dormant, and about 35,000 other assesseees with more than Rs 50 lakh yearly tax liability have paid as much as 99% of tax through ITC. These taxpayers have also paid less than Rs 1 lakh income tax in the last three years.

The recommendations came after the GST intelligence wing arrested 48 persons, including 3 chartered accountants, and have booked 648 cases besides identifying 2,385 entities in the last 10 days of a nationwide drive to apprehend a fake invoice racket.

While a new registrant process based on an Aadhaar identification will be done at facilities where the applicant can provide live photo and biometrics along with relevant documents. These centres would be run at banks, post offices and GST Seva Kendras (GSKs), sources said.

Further, if taxpayers wish to register under GST but don't want to take the Aadhaar route, they will have to produce income-tax return verifying required financial credibility. In its absence, they will have to finish recommendation letters from two reliable taxpayers, sources said.

The law committee further suggested that another level of filter should be applied to 'untrustworthy' applicant — those who may have had GST registration cancelled earlier or violated PAN provisions. Their registration will be approved within 60 days but only after physical verification of place of business, sources said.

Additionally, such applicants will need to pay 2% of their tax dues, in cash instead of using ITC for most of the liabilities. Also, taxpayers who are suspended in future for having a risky profile will have to explain the discrepancy within the prescribed time limit for revocation of suspension, sources said.

Source: FE

### Govt's 'unprecedented' reforms to usher in new era of growth: Niti Aayog CEO Amitabh Kant

Niti Aayog CEO Amitabh Kant on Monday said that “unprecedented” reforms undertaken on both governance and economic fronts by the government will usher in a new era of growth and prosperity.



Kant also stressed the need to increase expenditure on research and development and strengthen intellectual property rights (IPR) laws. “The economic and governance reforms undertaken by the government have been quite unprecedented and they will usher in a new era of growth and prosperity,” he said. “We are making states compete on ease of doing business parameters. We are ranking states and naming and shaming them,” he said while addressing a virtual event organised by industry body CII.

Listing out reforms undertaken by the government in recent times, Kant said as the world battles contraction in economic growth, India has initiated reforms in key sectors including agriculture, labour and mining. “The labour reforms will help in making India a manufacturing hub,” Kant said adding that the country has also successfully improved its ranking in Global Innovation Index.

The Niti Aayog CEO said that foreign direct investment (FDI) in India increased to USD 74 billion in 2019-20 from USD 36 billion in 2013-14 despite challenges in the global economic environment. Noting that infrastructure will be a key driver of growth, Kant said through the National Infrastructure Pipeline (NIP) which envisages USD 1.5 lakh crore of investments, 21 per cent of those will come from the private sector. The project pipeline also has a high degree of readiness, he said adding that 40 per cent projects are already under implementation. Kant further said asset monetisation will give robust long-term investment opportunities. “We have identified several assets for monetisation including gas pipelines, power lines, highways, ports, airports,” Kant said adding strategic disinvestment is another avenue to raise revenue to undertake capital investment.

Noting that European and American companies will look for alternatives owing to the US-China trade war, he said India can and must turn this crisis into an opportunity. “India is well placed to take advantage of realignment of the global supply chain,” Kant opined. The Niti Aayog CEO said the government has approved 10 production linked incentive (PLI) schemes across a range of areas, and the total budgetary outlay for 10 PLI schemes now stands at Rs 1.96 lakh crore. Talking about the Aatmanirbhar Bharat initiative, Kant said it is not about protectionism. “It is about Make in India for the world,” he said.

Source: FE

### Interview with Dr. Tanweer Alam, Director (I/C), Indian Institute of Packaging (IIP)



#### **Having taken over the helm of affairs at the IIP, what are your goals for the institution?**

Established since 1966, IIP is a national apex body for the packaging and allied industries set up by the Ministry of Commerce, Government of India, with the specific objective

of improving the standard of packaging needed for export promotion and creating infrastructural facilities for overall packaging improvement in India. This is achieved through the Institute's multifarious activities which are today, in line with those of premier packaging institutes the world over. The Institute aims to make India a focal point for contemporary developments in the Art, Science, Technology and Engineering in the field of Packaging.

Today, IIP has an illustrious alumnus of over 200 students who hold prominent positions within the industry. Our curriculum is aimed at providing world class education and training in the packaging industry which has been seeing rapid developments, especially in recent times. This has been further exacerbated by the pandemic situation and besides sustainability, packaging that impact health, are logistically better suited, etc are seeing a surge. Virtual classrooms, focus on intelligent packaging, packaging for E-commerce, especially in the F&B and Pharma segments are emerging trends and we are gearing up to be a part of this transformation. IIP continues to forge ahead and we have ambitious plans to introduce courses that range from vocational training, Diplomas, Graduate, Post Graduate as well as Research programmes along the likes of India's premier institute as we believe that the industry has huge potential for employment and growth in coming years.

IIP enjoys worldwide recognition and connectivity with the WTO, Asian Packaging Federation, and within the Indian industry. We aim to leverage the good will earned over decades and work with State Universities for accreditation and affiliation in order to integrate packaging

education within the mainstream education. This will open doors to many new students looking for flourishing and growth careers. Talks are ongoing with the Guru Gobind Singh University, New Delhi and we hope to soon announce our PG programme with them. Talks are also ongoing with JNTU, Hyderabad and numerous other universities currently.

#### **The global demand for packaging is likely to reach USD 1.05 Trillion by 2024 driven by consumer and industry trends? What are the drivers for growth for the Indian industry?**

E-commerce in my opinion, will be the biggest driver for growth in the country. The pandemic has thrown up huge learnings for the industry and today there is humongous demand for hygienically packed, no touch, anti-bacterial, etc types of packaging. This is fuelled by consumer demand as health and safety become paramount. The F&B and Pharma segments will be the big gainers and we see most advancement in terms of technology and automation here. This of course will further increase the demand for automation in the packaging industry.

Plastic food and beverage packaging and Pharmaceutical packaging are among the fastest growing segments globally today. What are the latest advancements/ developments that we see in this segment in India today? Bio-degradable packaging has been making great headway within the Indian and global packaging industry and this trend will continue with India having the potential to lead the way. Alternative for SUP is another area that is likely to see much advancement. India is already a leader in the FIBC and Bulk Container segment seeing constant advancements and we will continue our leadership position in the segment. We are however hindered by poor machine manufacturing capabilities and as demand for automation increases, we can foresee greater development on this front as well.

**Considering the recent growing demand for anti-viral/ anti-bacterial packaging especially in the F&B and Pharma segments, is the Indian industry geared up to meet these new opportunities?**

As mentioned earlier, there is a huge demand for safe, secured and hygienic packaging solutions. Since 2018, FSSAI has established very stringent regulations and has been closely monitoring the implementation of the same for the industry. Earlier, packaging solutions were aimed at enhancing shelf life. However, since the pandemic, there is increased focus on packaging that retard the growth of pathogens and allow for safe and secure transportation. At IIP, we do receive a lot of inquiries regarding anti-viral packaging and globally there have been a lot of developments on this front with positive outcomes. The Government of India too has been encouraging industries to research and explore the segment and propelled by the changing trends, one can expect such solutions to be ready in India in the coming year or so.

**End of life recycling programmes have been trending and propelling packaging solutions. What are the measures being taken or should be taken by Indian manufacturers to ensure greater involvement of the segment, especially with increasing push on EPR?**

Post-consumer waste management is the responsibility of all its stakeholders. Collection and segregation, as we all know has been the major challenge to the process in India and this has much to do with the general mind-set of our people. There has to be more awareness and a drastic shift in the way we, as a community, perceive and act if we are to reduce, recycle, etc. Most plastics are recyclable and thanks to our ragpickers, India has very high recycling rates as well. However, in my opinion, expecting manufacturers or processors who have wide distribution across the country, to collect, sort and recycle their waste seems impractical as their operations are not limited to their immediate geographies. However, one of the ways to mitigate this challenge is by ensuring that processors/ manufacturers are given the responsibility to repurpose/ recycle a quantum of waste from their surrounding geographies that equals their production. There are many NGOs and tech-based start-ups who have also been trying to help solve the problem of waste management. Such organizations must be supported and encouraged by the Govt and the industry as they can go a long way in tackling the issue. Consumers must also recognize the need to segregate and responsibly dispose their waste. It is a collective effort and cannot be pinned to any one stakeholder.

**What are the emerging career opportunities within the packaging industry?**

The packaging industry is one of the fastest growing segments with a growth rate of 15+% year on year. We anticipate a demand for 35000+ manpower including professionals, management, technical, semi-skilled and skilled personnel in the coming years across the segments including end-user, converters, R&D, manufacturing, etc. In fact, there is no perceivable saturation anticipated in the industry; rather the opportunities are tremendous.

Machine manufacturing also has huge potential for technical, engineering and R&D skills. Currently, machinery and technologies are being imported. But with the right investment and skills, the segment can throw up huge opportunities for employment of specialized skills along the likes of Germany, Italy, etc that are the pioneers of technological advancements.

**Skilling is critical to the plastics industry considering its huge employment generation opportunities and changing technologies. How can the IIP play a larger role in upskilling/ reskilling in the segment? What is the kind of support that you would need?**

While the IIP has the capacities, capabilities and resources to develop world-class curriculum aimed promoting and growing the packaging industry, we need the support of the industry in terms of sponsorships for extending better lab facilities for R&D, infrastructure, auditoriums, hostels, seminars, etc; all which are critical to offering holistic learning. We also need financial support from the Govt for training programmes, university affiliations, etc. IIP is a self-sustaining institute and while we do receive some capital support, we need a lot more to be able to establish ourselves as a premier institute for the packaging industry on par with the IITs, ITI, NIDs of the country.

The Institute also need a bigger faculty, more scientists and researchers to come forward and be a part of our team.

**Where does the Indian packaging industry stand in terms on investment in R&D and Innovation as compared to global developments and trends?**

It is rather unfortunate to say that our investment and focus on R&D has so far been negligible as compared to global standards. This could be largely due to the fact that many industry players believe in adopted technologies and lack the vision to think ahead. As a country, we have excellent resources, but we have failed to capture these and exact the potential. While there are many players within the industry who have been investing in R&D and Innovation, to be able to scale it up, we need to change our outlook. And hopefully it will as economic lines continue blurring and India all set to emerge as a global economic superpower.

**How does our country fare in terms of advancements in new material development that support global sustainability drives?**

Material development, globally, has been making great strides over the years and bio-degradable material is exemplary of such initiatives. In India, we are still at a very nascent stage and efforts are being made to build teams and advance into this foray as well. The patent for Lamitube packaging for Nalen gur to enhance shelf life was developed in India, while Thiagarajar College of Engineering in Madurai received patent for manufacturing tiles and blocks from waste plastic. The team was headed by R Vasudevan, the Plastic Man of India. With time, we expect more advancements to come through in future.

**With growing preference for paper/ hemp in packaging, what is the likely impact on polymer-based packaging in coming years?**

There is a healthy competition between these product segments. Plastic will sustain and all such packaging options have a positive outlook as these serve specific purposes and, in most cases, one cannot replace the other. There could be minor shifts, but plastics are here to stay.



## Product of the Month

### Low-Density Polyethylene (LDPE)

Low-Density Polyethylene is a type of polyethylene, having a density range of 0.910-0.935 grams per cubic centimetre and is often referred to as the “branched” polyethylene. Its molecular structure is characterized by the presence of many asymmetrical branches (some relatively long) on the chain of carbon atoms. LDPE is noted for its low temperature softness, flexibility, lightweight, toughness, and corrosion resistance.

LDPE finds use in food and non-food packaging, extrusion coatings, sheathing in cables and injection moulding applications. Products made of Polystyrene can be identified by the triangular recycle symbol with the number “4” resin identification code which is generally mentioned at the bottom of packaging.

The product is classified as 390110 under Harmonized System (HS) of Coding.

World-wide import of Low-Density Polyethylene is around USD 25 billion.

- In 2019, top-5 exporting countries of LDPE were: Saudi Arabia (17.5%), United States (10.5%), Belgium (7.9%), Singapore (6.7%), and Germany (5.4%).
- Likewise, top-5 importing countries of LDPE were: China (13.7%), Germany (5.9%), Singapore (5.0%), Vietnam (4.6%), and Italy (4.1%).

India is a net importer of Low-Density Polyethylene. In 2019, India imported 384,049 tonnes of LDPE valued at USD 446.17 million from the world. Saudi Arabia, Singapore, Qatar, United Arab Emirates and United States were the major source for India’s import of LDPE.

Source Country	Value (USD Mn)	Source Country	Qty. (Tonnes)
Saudi Arabia	77.84	Saudi Arabia	75,326
Singapore	53.18	Qatar	47,337
Qatar	49.83	Singapore	46,942
United Arab Emirates	48.10	United Arab Emirates	46,336
United States	48.08	United States	44,939
South Korea	36.79	South Korea	27,187
Belgium	29.85	Thailand	20,145
Thailand	23.01	Belgium	19,694
Netherlands	18.75	Netherlands	12,139
Germany	9.51	Malaysia	8,809

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

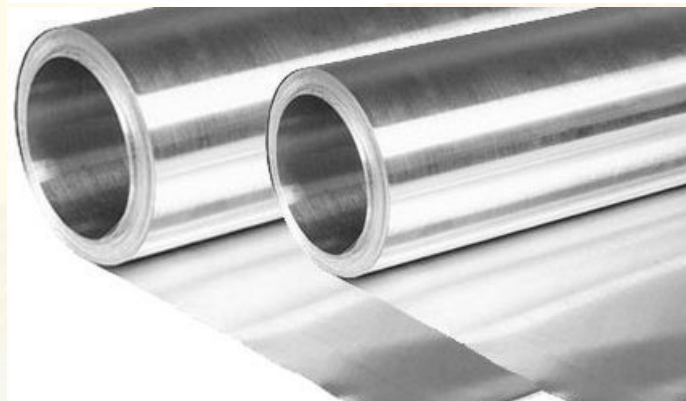
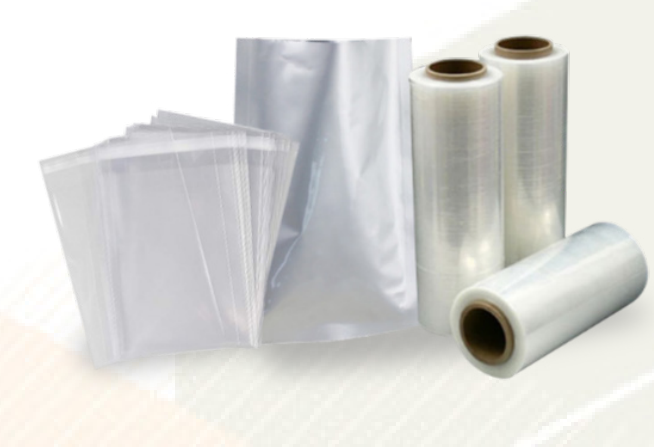
India is also an exporter of Low-Density Polyethylene. In 2019, India exported 145,172 tonnes of LDPE valued at USD 145.63 million to the world. China was the major destination for India's exports.

Destination Country	Value (USD Mn)	Destination Country	Qty. (Tonnes)
China	90.68	China	99,116
Turkey	14.92	Turkey	13,273
Bangladesh	6.97	Bangladesh	6,047
United Arab Emirates	3.87	United Arab Emirates	4,631
Portugal	3.12	Portugal	2,285
Kenya	2.39	Kenya	2,152
Nepal	1.98	Nepal	2,100
Iran	1.92	Algeria	1,278
Algeria	1.91	Iran	1,110
Qatar	1.62	Qatar	1,097

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

Interestingly, while India is a net importer of Low-Density Polyethylene, the O/o Directorate General of Trade Remedies has received a request to initiate Anti-Dumping investigations on import of LDPE into India from six countries including Saudi Arabia, Singapore, Qatar, United Arab Emirates, United States, and Thailand. In 2019, these countries met 67% of the import demand of LDPE by India in terms of value and 73% in terms of quantity.

The basic customs duty applicable on import of LDPE into India is 10%. Hence, any import of LDPE from Qatar, Saudi Arabia, UAE and USA into India attracts a customs duty of 10%. However, imports of LDPE from Singapore and Thailand enjoy lower rates.



# Industry Speak

LDPE is an important Plastic grade and is widely used for manufacturing various food and non-food applications including films, packaging, containers, dispensing bottles, wash bottles, tubing, plastic parts for computer components, various moulded laboratory equipment, etc. One of the most tried and tested, best grades like 1003FA 20 (LDPE having 0.3 MI) which is one of the best suited LDPE for certain applications is not produced in the country and the our industry has been compelled to import the same as despite much advancements in application. No new grades of LDPE have been manufactured in the country for over two decades now.

A submission to the DGTR for an investigation to evaluate the alleged material injury caused due to dumped imports of LDPE from namely countries such as USA, Singapore, UAE, Saudi, Thailand & Qatar and imposition of anti-dumping duty on the import of the same has been made. Imports from these countries account for nearly 67% of our import in terms of value.

It may be noted that India imported 384,049 tonnes of LDPE valued at USD 446.17 million from the world (2019) as barely 50% of the LDPE demand is met domestically. Prices of LDPE in the domestic market are usually higher than the landed cost of imported material. Besides the limited capacities to produce superior and world class LDPE, there is also the issue of non-availability of speciality grade polymers being produced in the country. Manufacturing of specialty products like Shrink Film, Shroud Film, Pallet Shrink Film, wide width film like Geo membrane film, certain special applications to suit to new generation packaging machines like, coiling of flat spring beds, where certain properties like, machinability, sealing etc require grades having MFI of 0.3 /0.15 as these products have unique properties that are needed for specialty applications. As no substitute grade is produced in India, converters of such products are heavily import reliant. If our industry does not import these specialty grades to manufacture products suited to new generation European shrink tunnels, coiling machines, etc. we will lose our business to China or Europe. Reputed overseas polymer manufactures like Dow, Exxon keep developing new grades in line with evolving industry requirements which has also enabled our industry to create new packaging applications suited to new generation packaging lines of European technologies like MSK shrink tunnels and paved the way for the converting industry to expand their product portfolios. Hence, if the converting industry is discouraged to import technically superior grades by imposing anti-dumping duties, it would be a death knell to the small and medium convertors and render them incompetent & retrograde.

Hence, we believe that the allegation of claimed material injury to the domestic industry is tantamount to misguiding the authorities. It may also be noted that despite the short supply in India, LDPE is also exported to other countries like China, whenever rates in international market are conducive. In 2019, India exported 145,172 tonnes of LDPE valued at USD 145.63 million to the world, mainly China. Such shortages and resulting indiscriminate price volatility force the converting industry into desperate hardship, compelling them to source from traders/stockiest at a premium, and thus causing significant financial injury to small and medium converters in India. As an industry and for reasons mentioned above, we do not endorse the imposition of Anti-Dumping Duty and earnestly request the DGTR to examine the situation from all perspectives before arriving at a decision.

*DISCLAIMER: Opinions stated above are representative of the general views of the industry as a whole and should not be subscribed to any individual or set of individuals in the industry.*



## Registered Exporter System (REX) for Exporters

The Registered Exporter system (REX) is a system of certification of origin of goods based on a principle of self-certification. The origin of goods is declared by economic operators themselves by means of so-called statements on origin. To be entitled to make out a statement on origin, an economic operator has to be registered in a database by his competent authorities. The economic operator becomes a “registered exporter”.

The REX System is a scheme introduced by the European Union that came into effect in India from January 2017. The system was introduced to streamline trade and reduce expenditures on part of the exporters. This also helps to develop countries to benefit from the unilateral tariff preferences. What this means is that a REX number gets you preferential treatment when you export goods to the European Union, in the form of Zero or reduced custom rates.

### What is the REX System?

The REX system is the term used to designate the system of certification of origin as a whole, and not only the underlying IT system which is used for the registration of exporters. For the time being, the REX system is used by EU exporters in the context of some FTAs, GSP of the EU and in the context of the Overseas Association Decision.

The REX IT system has been developed by the European Commission and is made available to the Member States of the EU, to the GSP beneficiary countries and to the OCTs. It takes the form of a Web application accessed with a username and a password as a website through Internet.

### What is a REX number?

The REX number is a 20-digit REX number assigned to each applicant, which begins with INREX and includes the exporter’s IE code, the alphabetical code of the Local Administrator, and numeric code for the Local User. The application for registration under REX is required to be filled in the format 1C. The REX system in export has a pre-application part known as the AREX form. You can fill in your details in this form and take a printout. It has to be signed by the applicant and submitted to the Local User. The Local User cross-verifies the applicant’s information using the IE code and exporter profile.

### What is a REX Statement?

The exporter must provide the statement of origin to the EU-based customer. It must contain all the specified details that are also indicated on the DGFT website. The statement of origin can be in English or any other EU-approved language. The statement must accompany commercial documents that identify the exporter, the buyer, and the goods traded. A statement of origin must be provided for every single consignment and remains valid for 12 months. However, a single statement can be used in case of multiple consignments if the products are non-assembled, imported in installments by the buyer, or are a part of Section XVI or XVII, or heading

7308 or 9406 of the Harmonised System of preferences. From 2018, an EU GSP preferential tariff was available for consignments valued at over EUR6,000, provided it was accompanied by a statement of origin by the registered exporter.



### What are the Benefits of REX System?

The Registered Exporter (REX) system is a scheme that facilitates self-certification of the rules of origin under the Generalised System of Preferences (GSP) and replaces the issuance of certificates of origin by competent authorities. This change has reduced the time and cost of shipping to the EU market.

The REX export system was introduced to streamline trading through the reduction of effort and cost on the part of the exporters. It was also aimed to benefit the preferential trade agreements with developing countries and the granting of unilateral tariff preferences to such countries.

Under the system, a REX certificate of origin also called as 'statement of origin' is to be provided by the exporters themselves.

### How can Exporters register for REX?

Exporters can register under this system and issue their own certificates of origin. Here are the highlights:

- Competent authorities under the REX system are divided into two categories. The competent authority for administrative cooperation (ADC) acts as an interface with the EU and are the policymakers concerning EU GSP.
- The competent authority for registration (REG) takes care of the verification and registration-related tasks.
- The competent authorities must have at least one Local Administrator under them, who, in turn, creates Local Users. Exporters can approach Local Users for registration purposes.
- Under the REX system, exporters can apply for registration by filling up the requisite application form. These forms must be submitted to the competent

authorities, who register applicants after verifying the correctness and completeness of their applications.

- A registered exporter can (and has to) inform the competent authorities about any changes in the registered information. The authorities accordingly make changes in the information stored in the REX system, based on the exporter's disclosure.
- The registration of any exporter can be revoked from the REX system. This can be done on the exporter's request or based on the decision of the competent authority. Revocation is generally done in case of closure of business of the exporter, or in case of any fraudulent activity on their part.

### Applying for the REX registration system in India?

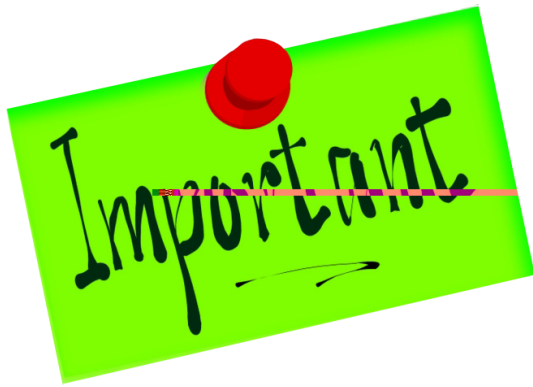
In India, the Department of Commerce is the Local Administrator of India for Administrative Cooperation. Sixteen entities in the country act as Local Administrators for Registration. The name of these REGs, along with the names of their nodal officers and contact details, is available on the DGFT website.

These Local Administrators can access the REX system by logging in via their ECAS ID. They can use it to nominate and create Local Users for Registration, by logging to the sub-component T-REX system and registering the Local Users.

The Local Users for Registration provide information to exporters about the system, receive registration applications, process and verify these applications, and register them on the REX system.

They update exporters on the registration process, document applications in safe custody, recommend revocations to the Local Administrators as and when required, inform exporters about revocations, and re-register exporters. They also carry out regular checks and audits based on the instructions of the EU member states or after obtaining consent from Local Administrators of ADC and REG.

Local Administrators in India are the DGFT, Textiles Committee, Silk Board, Spices Board, Tobacco Board, and several SEZs. Registered exporters have to provide a summary of the 'statement of origin' to the Local Users for Registration.



### Things to Remember

- Exporters should take care in preparing the Origin of goods certificate. All details showed on the DGFT website must be provided appropriately.
- Note that all certificates of origins given by a registered exporter have a validity of 12 months only.
- An exporter registered under the REX system should not have any bankruptcy proceedings against him or unpaid Custom dues.
- Though the REX system makes the life of an exporter considerably easier, the individual is solely responsible for the proper maintenance of records and how he makes use of it. Never hesitate to consult with the nodal officers. The local administration office or the local users to get your queries answered.



# Tough Questions and Honest Answers about Molecular Plastics Recycling

**Molecular recycling, aka chemical recycling, is a technically proven way to put waste plastics back into circulation as virgin plastics — a 100% circular solution. But to succeed in the marketplace, technology is not enough: It's also about business and execution.**

In 2013, I was discussing Tesla with an ex-automotive CEO, and the points he made then mimicked the challenges facing plastics recycling today. He argued, “Tesla has zero chance of success. The automobile business is complicated, execution is critical, and electrification technology, around for some time, isn’t economic. Look at all the failures,” he added.

I disagreed. Based on research into Tesla’s business plan, execution ability, and technology, I bought a car and some stock. I figured I would either own a paper weight and a piece of paper or a great car and valuable stock. Since then, Tesla has launched four models, developed auto-drive capabilities, built supporting infrastructure, and is executing across the business. The stock is up 2,500%.

I also disagree with today’s plastic recycling doubters regarding chemical, rather molecular, recycling’s odds of success. What I do agree with? Like electrification of cars, solving the waste plastics problem is of critical importance and it too will require building businesses through execution around viable technologies in order to succeed. The upside to solving this problem is equally significant.

Once this pandemic has been tackled, the value of plastics — hygienic, low cost, flexible, and abundant — will mean greater demand and production. Proper disposal has been and will remain a top priority for consumers as well as producers and brand owners. Consumers, knowing they need to use more plastics post COVID-19, will insist on it.

Companies that had aspirational recycling goals before COVID-19 appear to be keeping them intact. Like many others, they aspire to achieve a significant reduction of the 79% of waste plastics currently going to landfills or, worse, into the oceans. Of the remaining 21%, only 12% of waste plastics can be reused, repurposed, or mechanically recycled while the rest is often burned.



Molecular recycling is a technically proven way to put used or waste plastics back into circulation as virgin plastics. The technology is often referred to as chemical recycling, and sometimes advanced recycling. Molecular recycling is more accurate, because it uses neither chemical additives nor catalysts, only carefully balanced heat and flow to ensure efficiency and profitability. The concept has been around since the 1960s. Further, plastic waste is reduced to its molecular origin. Therefore, molecular recycling is a 100% circular solution that can infinitely convert waste plastics back into virgin material by repurposing waste plastics into feedstocks to make plastic precursors.

In theory, with enough molecular recycling capacity for the landfill-bound 79% of waste plastics, all plastics currently above ground perhaps would be all we will ever need, since they could be infinitely returned to virgin uses — 100% circular. And, like auto electrification, “technically proven” is not enough. Execution of molecular recycling is complex and reaches beyond just technology.

The business side covers collection infrastructure upstream and processing infrastructure downstream; it must meet strict regulatory requirements; and requires experience in science, technology, operations, safety, and administrative execution to balance the myriad variables to consistently produce high-quality volumes. Above all, it must be profitable to be sustainable. And, by the way, this must all be done while continuously innovating on the fly.

In spite of the shadow of COVID-19, times are very encouraging for the molecular recycling industry and the positive environmental impact it could have. Numerous recycling companies worldwide have made announcements about future plants, production, partnerships, breakthroughs, and more. All of them, Nexus included, are focused on how best to reduce waste plastics for the betterment of all.

There is no winner-take-all scenario. Like electric cars, the market is far bigger than any one company, or any 10. There is ample space for successful ones; however, these companies will emerge only if technologies are economic and are surrounded by an end-to-end business that is well executed.

### **So, with so many players out there, how does one know who might succeed?**

When stakeholders, like large industrials, sustainability/policy leaders, investors, and others, have toured Nexus’ commercial operation after researching others, the opening questions focus on technologies and what has been reported in the press. It quickly becomes apparent technology is not enough. The conversation shifts

to issues focused on the business being built, who is executing it, and how.

With industry success in mind and using the same lens that was applied to Tesla, below are suggested questions along with commentary specific to molecular recycling. These questions are meant as a starting point and have proven useful to others evaluating specific molecular recycling or similar companies and the industry. They are provided in the spirit of ensuring the molecular recycling industry can succeed overall to achieve the ultimate goal we all share — solving the thorny waste-plastics problem, globally.

Suggested questions to assess molecular recycling success and commentary:

Note: Complex industries do not lend themselves to today’s soundbite style if important information is to be conveyed. Combining engineering and finance, by its nature, requires details like below.

### **Is the molecular recycling company an end-to-end business or just a technology?**

- An innovative technology is at the center of any successful company. However, to migrate from a “science-project” pilot to a commercial-scale operation that is profitable and, therefore, sustainable requires cross-disciplinary skills. Molecular recycling is no different.
- Entrepreneurial spirit with a passion to solve a worldwide problem must be coupled with expertise in engineering, operations, software, regulation/policy, strategy, marketing/communications, legal, and human resources, which are all driven by financial and performance metrics. Ideally, with a leadership and implementation team that is scientifically, technically, operationally, and financially literate, success is achievable with strict cost-control limitations.

### **Are complexities managed?**

- Converting plastics to marketable products requires doing a few things well and thousands of little things very well. Molecular conversion is only one part of that equation. Also required is upstream handling of a diverse feedstock, logistics to identify and aggregate these feedstocks, ability to remove undesirable contaminants, both obvious — metals, non-plastics, undesired plastics #1, #3, #7 — and less obvious — inks, glues, labels, fillers, fire retardants, moisture.
- Maintenance of systems beyond upkeep are needed to maintain 24/7 operations to meet yield and throughput targets. Final products must meet strict specifications consistently and, preferably, without

cost-adding efforts like hydro-treating and post-production cleaning or distillation.

## Is it operationally economic without grants or incentives?

- Like any business, recycling is unsustainable unless it is financially profitable for all parties.
- This may seem obvious, but discussions often focus narrowly on the technology either working or not. Cost and the economics of operating that technology is too often a secondary consideration.
- Grants and incentives cannot be relied upon for commercially scalable projects for the simple reason that they run out and expire.
- Plastic feedstocks are not free unless they are so contaminated, which adds costs, that they become unusable.

## Are capital costs reasonable to allow for rapid replication/scaling?

- All-in costs to build out and commission a system must be considered when evaluating operational performance and economic returns. These costs include hardware to software, maintenance, laboratory support, on-going working capital, regulatory compliance, insurance, training, property, and related expenditures.
- Although obvious, discussion usually overemphasizes only equipment and installation costs. Low capex can be achieved through expertise, efficient procurement from vetted vendors, and knowledge in setting up a plant, and when complemented by low Opex in the “Is it economic?” question above, it dramatically improves the operation’s risk/return ratio.

## Is operation efficient and output consistently high quality at commercial volumes?

- Efficiency dictates economics. For example, the Energy Returned Over Energy Invested (EROEI) number captures all inputs (feedstock, energy, and others) and compares them to the energy value of the off-take produced.
- The higher the EROEI, the better and more economic, but this parameter does not stand alone. Product quality measured as the ability of a produced feedstock to meet a certain specification consistently and at scale is just as important.
- Any post-processing operations add costs and complexity while limiting the use and value of the off take.
- The softer element of high-level customer service also plays a significant role. Processing transaction orders accurately, especially for larger partners, is essential in an on-going business relationship.

## Does it meet all regulatory requirements and is it reasonably insurable?

- End-to-end air, water, safety, transportation, product load-out, area classification, electrical and piping compliance require proper review, approval, and implementation at the federal, state, and local levels.
- Insurance companies are shying away from established recycling operations and even some refineries while requiring minimum engineering, technical, and environmental compliance to established standards. A single significant accident could have a chilling effect that would ripple throughout the industry.
- Larger buyers also insist on minimum operating standards from the companies they do business with to ensure their own interests are protected. The best product will be rejected if produced in conditions inconsistent with their corporate standards.

## Are hardware, software and other systems integrated to address complex operating parameters?

- Hardware is only part of an end-to-end solution. Adjusting temperatures, flows, pressures, and residence times on the fly is just as important within any operating scenario. In some cases, artificial intelligence (AI) linked to the production system’s numerous input/output points may be required to achieve consistent and reliable performance.
- Plastics-to-oil is an imperfect science given the broad array of inputs and cannot rely solely on human reaction. A combination of soft and hard solutions is necessary to achieve desired production and economics.

## Is the company’s profit model about licensing its chemical recycling technology?

- The current state of molecular recycling is not well suited to licensing the technology to non-experts. There are simply too many technical and operational nuances and “soft” factors to reliably and economically run a plant unless one possesses specialized skills and knowledge. Unfortunately, some past licensing efforts have proven this out.
- Over time, at the point when all the elements above have been compiled within system software and detailed operational and maintenance procedures, licensing will no doubt prove to be a powerful tool for scaling within the industry.

## What is in-house versus third-party driven?

- Institutional knowledge is critical for developing and deploying any early-stage technology. Rapid innovation and improvement are the norm. Outsourced software development, engineering, plant operation, feedstock sourcing, and even construction do not allow for the rapid iteration required to keep any novel business on course when changes or improvements are needed.
- Possessing an in-depth knowledge of every aspect of the business can only come from actually “doing it,” which goes a long way toward increasing the odds of that business surviving and thriving.
- This knowledge is not easily obtained, and while it may be found in detailed operations manuals, those manuals are only rarely read and more rarely is the information in them assimilated, which can ultimately slow growth and even destroy the business (see point about licensing above).

## What is the make-up of feedstock?

- No plastic stream is pristine and will contain a range of all plastics and more. Like any input to a system, a specification must be defined and met at a cost to deliver sustainable economics.
- The chemistry involved with pyrolytic molecular recycling is straightforward: #2, #4, #5, and #6 plastics can be molecularly recycled while others cannot. Taking #1s and #3s through #7s is possible (and they will appear in all streams no matter how “clean”), but when they are found in higher quantities within incoming feedstocks, this means higher sorting and disposal costs as well as significant operational impacts.
- Other non-plastic contaminants creep in even if pre-sorted, especially at scale. Metals, glass, organics like paper and food waste, colorants, glues, fire retardants, and moisture require a laboratory analysis before introducing them into a system. Municipal waste, though abundant, has all these contaminants in such high quantities the cost/benefit skews negative. Over time this may change as consumer-sorting improves. Catalysts and other technologies may address some of these issues as well, but it will take time to reduce costs to a manageable level.
- Since no source is perfect, in order to take #1s and #3s through #7s, a system must be able to handle reasonable amounts of all contamination economically, either upstream before entering conversion or within the conversion system itself. Economics must be the driver, not “wish-cycling.” Volumes of targeted material need to be readily available at a price that accounts for collection, aggregation, logistics, and processing on location.

## About the author

Eric Hartz is President and co-founder of Nexus LLC. Located in Atlanta, GA, Nexus molecularly recycles waste plastics at its commercial-scale plant. It consistently sells tanker-load quantities to customers nationwide, who convert Nexus’ products into virgin plastics. More at [www.nexusfuels.com](http://www.nexusfuels.com). This article has been reproduced from *Plastics Today*. Opinions and views expressed are the author’s own.

be used in case of multiple consignments if the products are non-assembled, imported in installments by the buyer, or are a part of Section XVI or XVII, or heading

## IEMs signed in the Plastics segment during October 2020.

IEM No.	Company Name	State / UT	Item of manufacture
1148	Surya Global Flexifilms Private Limited	Uttar Pradesh	Polyester sheets and film
1151	Jai Corp Limited	Dadra & Nagar Haveli	Plastic packaging products
1159	Uflex Limited	Karnataka	Polyester sheets and film
1167	Polyone Polymers India Private Limited	Gujarat	Master batches
1173	Lenskart Solutions Private Limited	Rajasthan	Optical items of plastics
1178	Shriji Polymers India Limited	Karnataka	Plastic packaging products
1208	Weetek Plastic Private Limited	Chhatisgarh	Plastic housewares

## 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

- Discounted fees 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
- Listing in PLEXCONCIL member's directory

**The Plastics Export Promotion Council added the following companies/firms as new members during October 2020. We would like to welcome them abroad!**

Sr. No	Name of the Company	Address	City	Pin	Director	Email
1	N P AGRO INDIA INDUSTRIES LIMITED	581,KALIBARI,	BAREILLY	243001	Prateek Pasricha	info@npagro.com
2	ARTZONE POLYPACK LLP	SURVEY NO. 292 P4, NR. THORALA BRIDGE, AT:- THORALA	MORBI	363641	THAKARSHIBHAI P VITHALPARA	artzone9600@gmail.com
3	MANSI POLYMERS PVT LTD	780, Pramukh Industrial Estate, Vill-Rakanpur, Ta-kalol,	Dist-Gandhinagar	382721	Bhagvanbhai N Barevadia	mansipolymers@yahoo.com
4	PUREFLOW SOLUTIONS PRIVATE LIMITED	Dhawani Industrial Park-4, Plot No-4, Ardoi Survey No-583, Hadamtal Police Station Road, NH8B,	RAJKOT	360030	JALPESHBHAI G MALLI	info@pureflowindia.com
5	FOODPRO PACKAGING PRIVATE LIMITED	PLOT NO. 393, FIRST FLOOR, SECTOR-31 HUDA	GURGAON	122001	DHARAMVEER SINGH RATHORE	foodpro0506@gmail.com
6	SHRI MARUTI NANDAN ENTERPRISES PRIVATE LIMITED	F-43,RIICO MANDA INDUSTRIAL AREA, MANDA TEHSIL CHOMU,	JAIPUR	303801	RAUNAK DHANIWALA	smnepl@gmail.com
7	MAXPOL PRIVATE LIMITED	FLAT NO.201, D WING, LOKHANDWALA TOWNSHIP, AKURLI ROAD,	MUMBAI	400101	Sumant Deendayal Agrawal	sumant.agrawal@maxpol.in
8	VOLYTECH INDUSTRIES	35B CHAUL PATTY ROAD BELIAGHATA	KOLKATA	700010	BIKASH DEBNATH	volytechindustries@gmail.com
9	SAILLON INDIA	C-19/87, Krishna Industrial Estate, Opp. BIDC Gorwa,	VADODARA	390016	Vipul Patwa	mumbai@saillon.in
10	RUNAYA PRIVATE LIMITED	Survey No.374/1, Village Galonda,	SILVASSA	396230	NAIVEDYA AGARWAL	devkumar.lalla@runayametsource.com
11	RAJKOT POLYFAB LLP	SURVEY NO.12, PLOT NO.1, AT. BHARUDI ,	TALUKA GONDAL	360311	DHARMESH C KALOLA	rajkotpolyfab@gmail.com
12	PEARL FIBC	UNIT/GODOWN NO 1, PLOT NO 5, GRD FLR134/0 135/1 134/02 MARK WIRE BUBY MARKET, AVIWALI VILLAGE RAIGAD	PANVEL	410206	ZAIN RAFIQUE SARGUROH	purchase@pearl-fibc.in
13	PINAXIS POLYMER LLP	PLOT NO. 5107, GIDC INDUSTRIAL ESTATE, BHARUCH,	ANKLESHWAR	393002	BHAVIN RAJESHBHAI GONDALIYA	pinaxispolyerllp@gmail.com

## New Members

14	PYARELAL FOAMS PVT LTD	1031/10, 3RD FLOOR, GOREGAON (E), IN-DRAPARASTHA CHS LTD , VANRAI MAHADA COLONY, W E HIGHWAY, OPP. HUB MALL	MUMBAI	400065	ADITYA GOEL	drback.orders@gmail.com
15	RINKU PLASTIC	1838/A/B,SILVER CHOWKI, OPP. BHARAT SURYODAY MILL, GOMTIPUR	AHMED-ABAD	380026	KAMLESHBHAI D PATEL	utsavpatel307@gmail.com
16	NANNOOH BROTHERS PVT LTD	NEW NO.190,OLD NO.165, ANGAPPA NAICKEN STREET,	Chennai	600001	AYUB M.NAN-NOOH	info@nan-noohbrothers.com
17	MAA PET PRIVATE LIMITED	117/182 M-BLOCK, KAKADEO KANPUR NAGAR	KANPUR,	208014	RAJESH KUMAR PANDEY	parashar@maapet.com
18	HIPPOFLEX INTERNATIONAL PRIVATE LIMITED	77 ASHISH NAGAR, KANADIA ROAD,	INDORE	452016	OM PRAKASH PATIDAR	acct.hippoflexint@gmail.com
19	AUTODYNAMIC TECHNOLOGIES AND SOLUTIONS PRIVATE LIMITED	S. No.279/ 1 & 2, Raison Industrial Park, Hinjewadi Ph-II, Village Maan, Tal Mulshi,	Pune	411057	Sandeep H Jaisinghani	sandeep.jaisinghani@autodynamics.co.in
20	GEN NXT PLASTIC TECHNOLOGIES PRIVATE LIMITED	Shade No. A2/501, Engineering Zone, GIDC Sarigam Taluka - Umbergaon	District - Valsad	396155	SHIVAJI WALUNJ	shivaji@gen-nxt.in
21	SKYLIGHT MERCHANTS PRIVATE LIMITED	NO. 5360, GALI NO. 69 RAGHAR PURA KAROL BAGH	Delhi	110005	SIPAHI YADAV	skylightmerchant@rediffmai.com
22	HIGH FASHION GARMENT	Shop No. 17, 3/17, Plot No. 1, Gajanan Colony, Govandi,	Mumbai	400043	Mehboob Usman Shaikh	highfashiongarment@outlook.com

Company Name	Theodor Köhler Büroeinrichtung GmbH & Co. KG
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Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	Tompla-Druckerzeugnisse- Vertriebs GmbH
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Others	Trade lead received from Embassy of India in Berlin, Germany.

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Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	Tudi Billo Papers
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Company Name	Winkler Schulbedarf GmbH
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Email	verkauf.deutschland@winklerschulbedarf.com
Phone No.	(+49) 853191060
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	Wippermann Computer Vertriebs-GmbH
Address	Karl-Schurz-Str. 35, 33100, Paderborn, Germany
Email	info@wippermann.de
Phone No.	(+49) 52511543
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	WKS Bürotechnik & EDV-Support GmbH
Address	Schopheimerstraße 16, 79541, Lörrach, Germany
Email	info@wks-bueroelektronik.de
Phone No.	(+49) 762195730
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	WREDE-Papier
Address	Arberger Heerstraße 27, 28307, Bremen, Germany
Email	wrede@wrede-papier.de
Phone No.	(+49) 421481484
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	Zeuthener Informationsund Bürosysteme Service GmbH
Address	Karl-Marx-Straße 114, 15745, Wildau, Germany
Email	vertrieb@zib-service.de
Phone No.	(+49) 337556570
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	Zimmermann – Ihr Büro-Centrum
Address	Zur Feuerwache 4, 15890, Eisenhüttenstadt, Germany
Email	info@buero-centrum.de
Phone No.	(+49) 3364405110
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.

Company Name	ZUERL db drucken + binden gmbh
Address	Türkenstr. 48, 80799, München, Germany
Email	s.zuerl@db-gmbh.de
Phone No.	(+49) 8928811525
Product Enquiry	Writings instruments
Others	Trade lead received from Embassy of India in Berlin, Germany.



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