PLEXCONCIL - The Plastics Export Promotion Council

PLEXCONNECT®

Edition 38, August 2022

Product of the Month – Insulating Fittings of Plastics

How to Register as PIBO / PWP under EPR Guidelines

Developing tomorrow's leaders in Exports

Countryscape - Focus on Myanmar

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THE PLASTICS EXPORT
PROMOTION COUNCIL

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Foremost, it is with great pride and pleasure that I would like to mention that indeed India is a true democracy in spirit! We extended our warmest wishes to the Hon'ble President of India, Smt. Droupadi Murmu, who is a shining example of how anyone can achieve the highest offices in the country, if one just put their mind to it. Our second female President, first to hail from India's indigenous communities, and the youngest President, she is a beacon of renewed hope for our country's future.

In recent news, Dow, the world's leading materials science company, and Mura Technology, the global pioneer of an advanced plastic recycling solution, announced their partnership to help solve the global plastic waste issue with the intention to construct multiple world-scale 120 kilotons (KT) advanced recycling facilities in the U.S. and Europe – collectively adding as much as 600 KT of annual capacity. The technology can recycle all forms of plastic – including multi-layer, flexible plastics often used in food packaging. While in India, joining the global commitment, the ban on SUP came into force on July 1, as a significant step towards curbing pollution created by SUP as well as creating a truly circular economy in plastics. What was imminent, is now a reality and requires stakeholder, including processors to play their part. Earlier last month, nearly 200 brands had registered as PIBO/PWP under the new EPR Guidelines and in this issue, we bring you an update on how to register your business under the new guidelines. With growing momentum for clean, green and sustainable products and solutions, it is time for the industry to align to the new ways.

Meanwhile, the trend of declining polymer prices continued in the past month. The ongoing lockdown in China, which one of the largest importers of raw material, sanctions against Russia, weak consumer demand still prevailing in many geographies have impacted our exporters who are facing high inventory costs. During June 2022, India exported plastics worth USD 1,103 million, lower by 15.3% from USD 1,302 million in June 2021. Cumulative value of plastics export during April 2022 – June 2022 was USD 3,276 million as against USD 3,419 million during the same period last year, registering a decline of 4.2%.

Having said that polymer price volatility is a phenomenon that our industry is no stranger to. The way to combat is to build business resilience, ensure highest efficiency in production, adopt the right market strategies and forge ahead. Furthermore, adopting new technologies and ensuring that we have an efficient skill set is also critical to business sustainability. Plexconcil recently concluded the first batch of its Programme in International Business. Led by esteemed members of our industry, the programme is most beneficial to those looking to acquire requisite key skills to enter into exports or career upgrade.

On July 14, Plexconcil in coordination with the Indian Embassy in Myanmar held a very engaging interactive session to explore new business opportunities for Indian plastic exporters and buyers from Myanmar. 10 exporters and 10 buyers participated during the buyer seller meet. The buyers showed keen interest in import of raw material to help support domestic production of articles in Myanmar. We hope that more such interactions will help our members reach out to newer markets. In this issue, we bring you a glimpse into Myanmar and the country's export potential under our section, Countryscape.

We also take a look at Insulating Fittings of Plastics under Product of the Month. Demand for insulating fittings, be it in electrical, or construction, or water management industries has been growing and Indian exporters have immense potential for exports in the segment. Take a look at the feature to know more. Additionally, we also bring you more news and information of what is happening around the world around us.

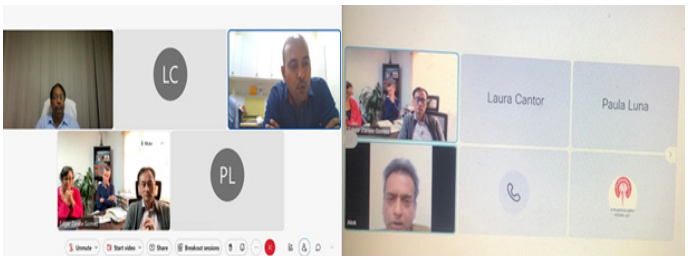
The festive season is all set to commence this month and we hope that it brings much good fortune. Until next time, stay safe and healthy.

Warm regards,

Arvind Goenka
Chairman

B2B(Virtual) Meeting held with an Importer of Colombia – 2nd June 2022 | Eastern Region

Embassy of India, Bogota, Colombia jointly with the Council organized the above B2B Meeting in virtual mode. The Colombian importer had the opportunity to interact with the Indian suppliers during the one-to-one meetings held.



Virtual B2B Meeting (one to One)

Plexconcil Western Regional Committee Meeting – 6th June 2022 | Western Region

Western Regional Committee Meeting was held on Wednesday 6th June, 2022 at 3.00 pm on virtual mode to discuss on Western Region activities since last meeting, Membership status, Measures for increasing exports from Western Region and to address the problems faced by the members from Western region. During the meeting, Mr Santosh Jain (Chhattisgarh - Raipur) was invited as guest for increasing exports from Chhattisgarh region. Many important initiatives were taken during the meeting for the benefits of trade.

Participation in IPLAS 2022 Show, Chennai – June 10-13, 2022 | Southern Region

The Chennai office of the Council participated in the IPLAS 2022 Show, organized by M/s Tamil Nadu Plastics Manufacturers Association (TAPMA), at the Chennai Trade Centre in Chennai, from June 10-13, 2022. This Show was a sourcing platform for plastics and its allied industries and to showcase the advancements, growth and opportunities for the plastics particularly from Southern India.

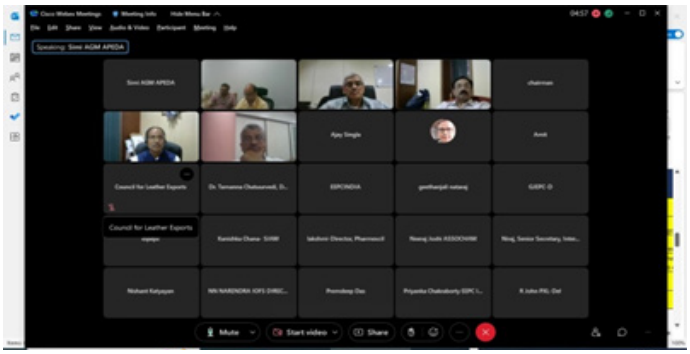
The organizers allotted a complimentary booth of 9 sqm to the Council who had a promotional booth to disseminate information on the Council's services and on the export potential for plastic products from India.

Participation at this event also provided a platform for membership mobilization to encourage industry entrepreneurs to enroll in Council membership and thereafter to start their exports with Council's support and guidance, and the Secretariat is following up with these entrepreneurs to enroll them in Council membership.

Mr. Y.V. Raman, Regional Chairman, Plexconcil, Mr. P. Mohan, Pipes & Fittings – Panel Chairman and TAPMA Committee Members visited the Council's booth and had fruitful discussions with the trade and industry.

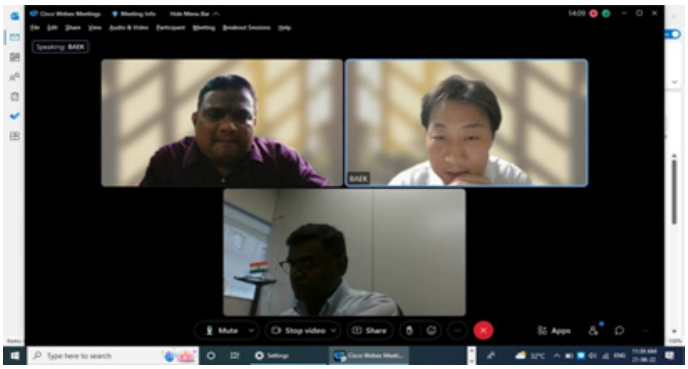
India - New Zealand Joint Trade Committee Virtual Meeting - 16th June, 2022 | Southern Region

Plexconcil was invited to the India - New Zealand Joint Trade Committee meeting through VC under the Chair of Shri Devesh Gupta, Director FT(Oceania), Department of Commerce along with other stakeholders to discuss Market Access Issues, if any, concerning exports to New Zealand. The Council was represented by Mr. Sribash Dasmohapatra, Executive Director and Mr. Ruban Hobday, Regional Director – South.



VC Meeting with RX Ltd-Japan, organisers of Plastics Japan 2022 along with the Embassy of India - 21st June 2022 | Southern Region

The Council organized a preliminary VC meeting with the organizers of Plastics Japan 2022 along with Embassy of India to discuss and finalize the participation of India Pavilion at the said show. The Council was represented by Mr. Sribash Dasmohapatra, Executive Director and Mr. Ruban Hobday, Regional Director – South.



Interactive session on the newly created Trade Promotion Wing at Office of Addl. DGFT, Mumbai – 21st June 2022| Western Region

On 21st June, 2022, Mrs. Bharti Parave (Assistant Director – Trade and Policy) and Mr. Manish Tulsian (Assistant Director – Research) represented the council at an interactive session on the newly created Trade Promotion Wing, its objectives and proposed initiatives, at the Conference Hall, Office of Addl. DGFT, Mumbai. The meeting was chaired by Shri. S.B.S. Reddy, Addl. DGFT, Mumbai. During the meeting it was informed that as part of the pilot program, Trade Promotion Wings have been established across six different locations in India including Mumbai. The newly created Trade Promotion Wings will have a special focus on State Initiatives, Exporter Advisory and Industry Relations, Exporter Training, and Trade Events.

Stakeholder Consultation Meeting of District Export Hub Program at Ahmedabad District – 21st June 2022| Western Region

Under the Districts as Export Hubs (DEH) initiative, Plastics has been identified as one of the focused product for Ahmedabad District as a pilot for the Phase 1. In the consultation phase, DGFT RA Ahmedabad arranged physical stakeholder consultation meeting at DGFT RA Ahmedabad office where EPCs and district authorities along with DGFT officials discussed the product promotion strategies related to the each selected product from the District.

Stakeholder Consultation Meeting of Ahmedabad District

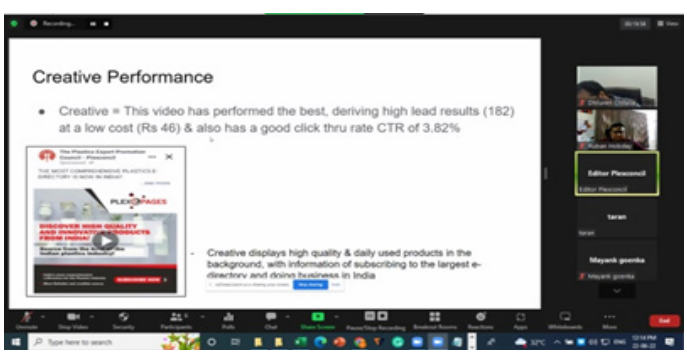
Product specific concerns pertaining to Plastic products were presented by Naman Marjadi, Asst. Director, Plexconcil Ahmedabad. Several leading exporters and Plexconcil members from Ahmedabad were present during the meeting and represented challenges being faced by them.

Industry Roundtable with Mr Rohit Vadhwana, IFS, Deputy High Commissioner - Designate of India to Kenya – 21st June 2022| Western Region

For Promotion of India's export abroad, an Industry roundtable was held with Mr Rohit Vadhwana, IFS, Deputy High Commissioner - Designate of India to Kenya at SPIPA, Ahmedabad on 21st June, 2022. Naman Marjadi, Asst. Director, Plexconcil Ahmedabad attended this meeting and discussed the upcoming activities of Plexconcil with Mr Rohit Vadhwana and requested for support in boosting Plastic exports from India to Kenya.

Youth Wing Committee Meeting: 22nd June 2022 | Southern Region

A brief meeting was organized on 22nd June 2022 with the Youth Wing Committee members along with Social Media Promoters to discuss the plans to promote the e-Directory "PLEXePAGES" amongst the Plastic Industry. Mr. Pranoy, Mr. Dhruven Chitalia, and Mr. Mayank Goenka along with Mr. Ruban Hobday, RD – South participated in the meeting.



Meeting to discuss and monitor the progress of Export Target of NEA region (virtual mode) – 24th June 2022 | Eastern Region

The above meeting was held under the Chairmanship of Shri Anant Swarup, Joint Secretary, Department of Commerce through virtual platform. Senior officers from our Embassy (China PRP, Korea RP, Japan, Hong Kong, Taiwan) attended the meeting. The objective of the meeting was to discuss and monitor the progress of Export Target of NEA region achieved the till May 2022. Mr Nilotpal Biswas, RD, PLEXCONCIL(ER) joined the meeting online.

PLEXCONNECT- Webinar on Export Credit Risk Management with ECGC Ltd – 24th June 2022| Western Region

Plexconcil organised a Webinar on Export Credit Risk Management with ECGC Ltd on 24th June, 2022. Mr. Dhruv Sayani, Plexconcil Panel Chairman of Consumer & Housewares Products and Director of M/s. Crystal Plastics & Metallizing Private Limited gave welcome address for the webinar.

Webinar on Export Credit Risk Management

Webinar on Export Credit Risk Management

The speaker, Shri R Mahalingam, AGM, ECGC Limited presented a brief background about ECGC Ltd., its various products for exporters, payment settlement procedure and ECGC's role in Russia-Ukraine conflict. Ms Bharti Parave, Assistant Director, Plexconcil moderated Q & A session for the webinar. The webinar ended with Vote of Thanks by Naman Marjadi, Asst. Director, Plexconcil Ahmedabad.

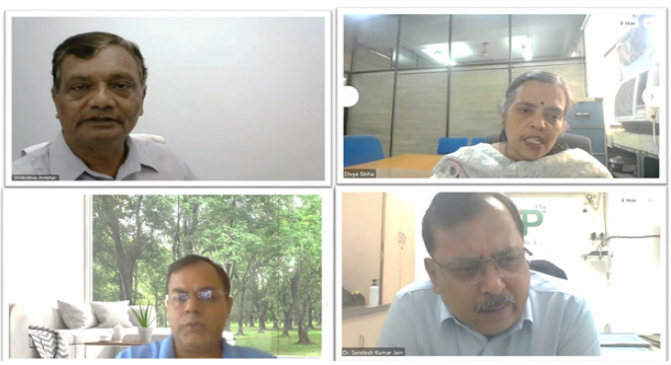
Industry interaction with Mr Anurag Jain, IAS, Secretary, Department for Promotion of Industry and Internal Trade (DPIIT), Govt of India – 25th June 2022| Western Region

An industry interaction was held with Mr Anurag Jain, IAS, Secretary, Department for Promotion of Industry and Internal Trade (DPIIT), Govt of India at Ahmedabad on 25th June, 2022. Mr Jain briefed participants about role of DPIIT and its activities during the meeting. Deliberations were made on the various innovative ideas for betterment of industry and issues being faced by Industry. Naman Marjadi, Asst. Director, Plexconcil Ahmedabad represented the council in this meeting

Industry interaction with Mr Anurag Jain, IAS, Secretary, Department for Promotion of Industry and Internal Trade (DPIIT)

PLEXCONNECT- Webinar on New Policy/Guidelines on Plastic Waste Management, Extended Producer Responsibilities (EPR) and Alternative to SINGLE USE PLASTIC (SUP) – 28th June 2022 | Western Region

PLEXCONCIL organized a Webinar on New Policy/ Guidelines on Plastic Waste Management, Extended Producer Responsibilities (EPR) and Alternative to Single Use Plastic on 28th June, 2022 (Tuesday) from 03.00pm to 04.30pm virtually.



Webinar on New Policy/Guidelines on Plastic Waste Management, Extended Producer Responsibilities (EPR) and Alternative to SINGLE USE PLASTIC (SUP)

The objective of the webinar was to understand Plastic Waste Management Rules, SUP & EPR and covered topics like Plastic Waste Management Rules 2016 and subsequent amendments, Extended Producer Responsibility (EPR), Deliberation on alternatives to SUP, Support from CIPET to align with these regulations and Implications on Plastic Exporters were discussed during the program.

Speakers of the program were Smt. Divya Sinha, Scientist-E & Divisional Head.,UPC-II, Central Pollution Control Board , Dr. Sandesh Kumar Jain (Principal Director & Head) from CIPET : CSTS – Bhopal and Mr Pranay Kumar– Vasudha Ecofriends Projects P Ltd.

The welcome address was given by Mr. Shrikrishna Amlekar, Panel Chairman - Plastic Films & Sheets, Plexconcil and Director – Operations, Garware Hi-Tech Films Limited. Ms Bharti Parave, Assistant Director, Plexconcil moderated Q & A session for the webinar. The webinar ended with Vote of Thanks by Naman Marjadi, Asst. Director, Plexconcil Ahmedabad.

Visit to Bhagwanpur/Chandipur, East Midnapore, West Bengal (Human hair processing center) – 28th June 2022 | Eastern Region

Regional Director, Eastern Region visited Bhagwanpur/ Chandipur, East Midnapore, West Bengal, Human hair processing centers in the state. The prime objective of the visit was to develop the Council's Membership base, especially who are exporting but not the member of PLEXCONCIL and also survey the issues and concerns of the present exporter members in order to increase our export.

K-FAIR 2022 PRESENTATION BY PLEXCONCIL

PLEXCONCIL was a part of the '**K Fair 2022 Presentation**' organized on 9th June 2022 by Messe Dusseldorf India for the promotion of upcoming edition of the exhibition, supported by Plast India Foundation and PLEXCONCIL. The presentation aimed to emphasize on the Govt's support available to Indian exhibitors at K Fair 2022 under Market Access Initiative (MAI) Scheme by the Department of Commerce, Ministry of Commerce & Industry.

The event was chaired by speakers Mr. Thomas Franken, Project Director, Messe Dusseldorf; Mr. Jayesh Rambhia, Treasurer, Plastindia Foundation; Mr. Krunal Goda, Senior Manager, PLEXCONCIL and Ms. Millie Contractor, Director Sales, Messe Dusseldorf India.

L to R: Mr. Krunal Goda, Mr. Jayesh Rambhia, Mr. Thomas Franken and Ms. Millie Contractor

Mr. Franken discoursed on Messe Dusseldorf's measures to revive the global plastics industry post-pandemic at K Fair 2022 and make it a historic edition, and Mr. Rambhia focused on the long-standing association of Plastindia Foundation and Messe Dusseldorf for K Fair and the importance of the exhibition for Indian Plastics Industry.

Mr. Krunal Goda presented the role, significance and relevance of PLEXCONCIL to the Indian Plastics Industry for not only enhancing the plastic exports from the country, but also for handholding MSMEs in exploring the potential of **'MADE IN INDIA' products in international markets.** In FY 2022-23, PLEXCONCIL will be leading delegations of Indian plastic manufacturers and exporters at 18 exhibitions, including K Fair 2022.

Mr. Krunal Goda representing PLEXCONCIL at K Fair Presentation 2022

Indian Plastics Industry representatives and members at the presentation

At K Fair 2022, the Council would be leading a delegation of 50 Indian companies with government financial assistance.

techtextil

PLEXCONCIL organizes India Pavilion at TECHTEXTIL, Frankfurt, Germany from 21st to 24th June 2022

The Plastics Export Promotion Council (PLEXCONCIL) for the first time successfully organized India Pavilion at Techtextil, Frankfurt, Germany for the **Technical Textile Industry,** one of the fastest growing industry sectors. Techtextil is considered as the largest B2B networking exhibition organized by Messe Frankfurt in Europe and the exhibition featured 1400 exhibitors and witnessed a footfall of 63,000 visitors from across 117 countries.

PLEXCONCIL identified the products that serve the technical textile industry and led a delegation of 14 members catering to the international industry's demand for raw materials, semi-finished and finished products at the exhibition. Given the importance of Techtextil, the Council approached the **Ministry of Textiles, Invest India, Indian Technical Textile Association** and other Export Promotion Bodies to come together and represent **'MAKE IN INDIA'** on an expansive scale to the global players.

Shri. Upendra Prasad Singh (IAS), Secretary, Ministry of Textiles inaugurated the India Pavilion in the presence of Ms. Shubhra Agarwal, Trade Adviser, Ministry of Textiles; Ms. Astha Tyagi Mehra, Invest India; Ms. Mishika Nayyar, Invest India; PLEXCONCIL COA and Indian exhibitors. The Council collaborated with MoT for delegation engagement with global stakeholders at various forums across the 4 days of exhibition:

- Meeting with International Textile Manufacturers' Federation & Swiss Textile Association
- Meeting with Messe Frankfurt Board
- Meeting with importers of Home Textiles & Technical Textiles
- CEO Forum- Global Textile Companies Investor Forum by Invest India
- Meeting with International Trade Associations

Dr. Amit Telang, Consul General, CGI Frankfurt, also visited the Pavilion and interacted with the Indian exhibitors regarding the export potential in Germany whilst sharing insights on the viable options to establish new prospects and enhance the existing buyer connections in the international market.The exhibitors were pleased with this tremendous opportunity to capitalize on the **'Global Business Reboot'** and gain new and stronger foothold in German as well as European market.

The India Pavilion exhibitors at Techtextil 2022, Frankfurt, Germany were:

Ajanta Universal Fabrics Limited, Alok Industries, Alok Masterbatches Private Limited, Blend Colours Private Limited, Fastrack Dealcomm Private Limited, JJ Plastalloy Private Limited, Navratan Specialty Chemicals LLP, Rajiv Plastics Private Limited, Safeflex International Limited, Sarla Performance Fibers Limited, Satyendra FIBC Private Limited, Satyendra Packaging Limited, Shri Maa Polyfabs Limited, Shubh Swasan (India) Private Limited.

FELICITATION OF CHIEF GUEST SHRI UPENDRA PRASAD SINGH , IAS, SECRETARY (TEXTILES), SMT. SHUBRA AGARWAL – TRADE ADVISER, MINISTRY OF TEXTILES, GOVERNMENT OF INDIA & MS. MISHIKA NAYYAR- INVEST INDIA AT PLEXCONCIL STALL



CHIEF GUEST SHRI UPENDRA PRASAD SINGH , IAS, SECRETARY (TEXTILES) AND SMT. SHUBRA AGARWAL – TRADE ADVISER, MINISTRY OF TEXTILES, GOVERNMENT OF INDIA INTERACTING WITH EXHIBITORS IN INDIA PAVILION





PLEXCONCIL REPRESENTATIVE SHRI KRUNAL GODA LEADS INTERACTIONS OF SHRI. UPENDRA PRASAD SINGH , IAS, SECRETARY (TEXTILES), MINISTRY OF TEXTILES, GOVERNMENT OF INDIA WITH FOREIGN DELEGATES


MEETING WITH INTENRNATIONAL TRADE ASSOCIATION

PLEXCONCIL WAS A PART OF THE FORUM CHAIRED BY SHRI UPENDRA PRASAD SINGH , IAS, SECRETARY (TEXTILES), MINISTRY OF TEXTILES, GOVERNMENT OF INDIA AND ATTENDED BY SMT. SHUBRA AGARWAL – TRADE ADVISER, MOT AND OTHER STAKEHOLDERS WITH GLOBAL STAKEHOLDERS OF TEXTILE & TECHNICAL TEXTILE INDUSTRY FOR DISCUSSION ON HOW TO MAKE TECHNOLOGICAL ADVANCEMENT IN INDIAN TEXTILE INDUSTRY & THEREBY BOOST GLOBAL TRADE

IN PICTURE : MEETING WITH DR. CHRISTIAN P. SCHINDLER - DIRECTOR GENERAL, DR. OLIVIER ZEISCHANK – ECONOMIST INTERNATIONAL TEXTILE MANUFACTURERS FEDERATION and Mr. KIM, BU-HEUNG KOREA TEXTILE CENTRE

MEETING MESSE FRANKFURT BOARD

SHRI UPENDRA PRASAD SINGH , IAS, SECRETARY (TEXTILES), MINISTRY OF TEXTILES, GOVERNMENT OF INDIA, SMT. SHUBRA AGARWAL – TRADE ADVISER, MOT , PLEXCONCIL REPRESENTATIVE SHRI KRUNAL GODA AND OTHER STAKEHOLDERS MET WITH MESSE FRANKFURT BOARD MEMBERS TO DISCUSS ON HOW TO REPRESENT BRAND "MADE IN INDIA" AT TECHNICAL TEXTILE

IN PICTURE : MR. DETLEF BRAUN – MEMBER – MANAGEMENT BOARD, MR. MICHAEL JANECKE – DIRECTOR BRAND MANAGEMENT TECHNICAL TEXTILE & TEXTILE PROCESSING, MR. OLAF SCHIMDT – VICE PRESIDENT TEXTILES & TEXTILE TECHNOLOGIES, MESSE FRANKFURT, GMBH,

INVEST INDIA CEO FORUM

ORGANISED BY INVEST INDIA, SHRI UPENDRA PRASAD SINGH , IAS, SECRETARY (TEXTILES), MINISTRY OF TEXTILES, GOVERNMENT OF INDIA, SMT. SHUBRA AGARWAL – TRADE ADVISER, MOT , PLEXCONCIL REPRESENTATIVE SHRI KRUNAL GODA AND OTHER STAKEHOLDERS MET WITH GLOBAL CEO OF TEXTILE & TECHNICAL TEXTILE INDUSTRY FOR INVITING THEM TO INVEST IN INDIA

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CONSULATE GENERAL OF INDIA VISIT

DR. AMIT TELANG, CONSUL GENERAL, CONSULATE GENERAL OF INDIA, FRANKFURT VISITED THE INDIA PAVILION ORGANISED BY PLEXCONCIL AT TECHTEXTIL 2022, GERMANY AND INTERACTED WITH THE PARTICIPANTS

CONSULATE GENERAL OF INDIA VISIT

PLEXCONCIL ATTEND A NETWORKING DINNER ORGANISED BY CONSUL GENERAL DR. AMIT TELANG FOR THE DELEGATIONS OF TECHTEXTIL FROM INDIA

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Developing tomorrow's leaders in Exports

8 Weeks ONLINE CERTIFICATE COURSE IN INTERNATIONAL BUSINESS

Export diversification is the need of the hour, with both start-up companies as well as established firms looking forward to recruiting professionals with in-depth understanding of doing business across various global markets. Whether in developing strategic export marketing plans, undertaking new business development, managing finances or managing policies and procedures, increasing globalization has resulted in a critical need for skilled personnel and efficient teams.

In its pursuit to support and help the industry to expand and launch into the lucrative international business, Plexconcil has designed the Certificate Course in International Business to professionalize the export business and to open better employment opportunities for enthusiastic youth. The objective of this course is to equip participants to face the challenges of the international market while acquiring the practical knowledge of being an Export-Import Business. The professionally managed curriculum and teaching methods that at par with international standards and needs were conducted by eminent mentors in their respective domains.

Recently concluded its first batch on 29th May, 2022 with 14 students receiving their certificates on 14th June, 2022. The certificates were awarded by Plexconcil Chairman, Shri. Arvind Goenka and the online ceremony was attended by students, mentors and industry members.

The course that commenced on 9th April 2022 was conducted over 8 Weekends with 6 hours learning per week (Saturday 4pm-7pm & Sundays 10am-1pm).

COURSE STRUCTURE

MODULE 1 - INTERNATIONAL MARKETING

- Basic Principles of International Marketing
- Global Environment For Exports – factors affecting WTO, UNCTAD, & ICC Regional Economic groupings

MODULE 2 - EXPORT FINANCE, BANKING & EXCHANGE REGULATIONS

- Global Economic Scenario, Forex Regulations, BOP – Current/Capital, Forex Reserves, Negative Interest Rates, and Q.E
- Risks in International Trade
- International Settlement Mechanism – Nostro, Vostro & Loro, EEFC Accounts, FEMA Act 1999
- Understanding Forex Market Dynamic & Factors impacting Forex Market, Need & importance of Hedging Foreign Exchange Risk
- Pre-Shipment & Post Shipment Finance in INR & PCFC with hedging facility Factoring & Forfaitin

MODULE 3 - EXPORT PROCEDURE & DOCUMENTATION

- Overview of Export Documentation, including GST, Invoice / Packing List, BL/AWB and other Ancillary Documents

MODULE 4 - IMPORT MANAGEMENT

- Background – International Trade and Customs
- Incoterms 2020
- Documentation process of Import
- Rules of Interpretation for Classification, Types of Import Customs Duties & Process of Import Customs Clearance

MODULE 5 - FOREIGN TRADE POLICY

- Preamble Legal Framework & various definitions & general policy provisions for export/ import as well as promotional measures
- Govt. objective under Foreign Trade Policy. Structure of Import Policy. ITC (HS) classification of Imports.
- Duty exemption/Remission Scheme. EPCG scheme. SEZ, 100% EOU's, EHTP, STP, SEZ, FTZ etc. and other incentive schemes, Deemed Exports.
- Current Foreign Trade Policy.

MODULE 6 - FOREIGN TRADE LOGISTICS

- Nature, Role & Scope of Logistics & Supply Chain Management
- Export Logistics Planning - Pre-Shipment, Shipment & Post Shipment stage.
- Dock Stuffing, Factory Stuffing & ICD.
- Cost &Time Benefit Analysis
- Global Commercial Geography; Means & modes of transport
- Significance of Transport, Sea Routes.
- Types of Vessels, Types of Containers, Advantages of Containerization.
- Multimodal Transport.
- Warehousing-Types, Benefits, Value added Warehousing.
- Concepts of 3P/L & 4 P/L
- Risk Management & Marine Insurance & Overcoming Present Challenges in Shipping & Logistics

MODULE 7 - PACKAGING & LABELLING

- Define packaging by recalling its functions, levels, and types
- Describe the global packaging market
- Identify the major stakeholders who influence the packaging development process
- Understand the key phases of the packaging development process
- Recognize the standard manufacturing process for each fundamental packaging material
- Identify the fundamental packaging materials and types

MODULE 8 - APPLICATION FOR GST RULES IN INTERNATIONAL BUSINESS

- Export/ Import of Goods under Indirect Taxation
- Export/ Import of Services under Indirect Taxation
- Merchant Exports under Indirect Taxation
- Deemed Exports under Indirect Taxation
- Refunds under Indirect Taxation

Meet the Mentors

Module 1 – Shudhakar Kasture, Director, Helpline Impex Pvt Ltd is a leading consultant in International Trade since the past over 40 years. He is consultant and advisor to many National & Multinational Corporations, Public limited and private limited companies etc.

He is a mentor at EXIM Institute, which was founded by him to impart vocational training in the field of International Trade. He is a well-known speaker on the topics related to International Trade, such as Foreign Trade Policy, Import/ Export documentation, Free Trade Agreements, WTO Agreements, etc and has conducted numerous Training Programs, Seminars, and Workshops for leading Pvt, Public, MNCs, Institutions, EPCs, etc.

"International Marketing is an area which is subject to change continuously e.g. E-commerce would be comparatively new area for any person who wishes to enter in International Market. Better understanding of such subject will add value. Importance of technology in product development is another key area, which impacts the pricing of a product. Using FTAs as a Market Access Tool, enhances the possibility of increasing market share. The Certificate Programme in International Business by Plexconcil is a good initiative as such training will help increasing exports and will also add to skill development of the people."

Module 2 – Nijai Gupta, Consultant & Trainer, NK Gupta Consulting is a Forex, Treasury, Trade Finance, Retail Banking Consultant, Trainer & Practicing Cost Accountant of N.K. GUPTA & Co. With a career spanning 40 years, he was a Banker and Treasurer with leading international banks as well as an Associate of ICAI, Kolkata; IIBF, Mumbai and a Visiting Faculty at FIEO, ICAI, BSE Institute, NMIMS, NSE's Investor Awareness Program, IMC and numerous Business Schools in India.

As a consultant and trainer, he has worked with leading banks, rating agencies, global IT companies, MNC's, Trade associations, Money Transfer Company in UAE, Setting up of the bank (Dahabsheel, Hergesia, Somaliland) under Islamic Laws and banking institutes in the East Africa, UAE and Nepal and India.

"It was an excellent experience to be part of Plexconcil's initiative on training the Plexconcil's members/non-members. The topic of Exchange Rate Management and Export Finance was excellently arranged considering the requirements of emerging exporters and export professional in upgrading their skills. Plexconcil's can organise more such programs on frequent basis and take the feedback from their members on arranging Fast Track Current topics like Exchange Rate Mechanism/Hedging, Export/Import Finance etc."

Module 3 – Mihir Shah Consultant, Advisor & Trainer in International Business, Universal Connections is an expert in Foreign Trade Policy, GST, FEMA, RBI, Customs, and other allied subjects related to Export and Import Business. He has successfully conducted over 300 Webinars with 11,000+ Participants during the COVID pandemic period providing latest and regular support to the Exporters & Importers in India & across the world. He also conducted 60+ One Day Trainings on GST for Exporters in over 17 Cities in 1st Year of Implementation of GST in India. He has been appointed as Mentor for Profit Accelerator Program funded by Asian Development Bank (ADB) for Internationalisation of SMEs in India, Cambodia, Thailand and Vietnam.

He is an ICC Incoterms® 2020 Registered Trainer in India as well as a Member of the ICC India Working Group in Banking & Finance, and is associated as Trainer, Speaker & Faculty at various Industry Associations, Chamber of Commerce, EPCs and Institutes.

"I believe that Documentation is the driving fuel in the Export Business. You may get the right product, the market, the buyer and the price but if you falter or fail to correct documentation in the process the cost of loss is very high. Apart from that when the hard work is done and you are successful, the small but important aspect in the process which leads to "Export Documentation" should not and must not be ignored or given less importance. Learning the nuances of the Export Documentation would certainly help the participants to up their game from this important wheel in the Export Business journey. The Certificate Programme introduced by the Plexconcil is an excellent initiative and I was more than happy to be part of the elite group of Trainers as it brought the real core experts in their fields to address and train the participants in the session. It was a well-designed and thoughtful curriculum which would have surely helped each and every participant."

Module 4 – Dr. Darshan Mashroo, Director & COO, EPT Global Logistics Private Limited & EPT Exim Services Private Limited with over 17 years' experience is a renowned Customs Broker and an expert in freight management whether it be Sea, Air, or land mode and specializes in the field of Customs Clearance, ODC & Heavy Cargo Handling/ Lifting / Transportation, Ocean Freight, Consolidation Programs, etc.

A well-known academician and adviser, he partners with various institutions imparting industry knowledge and expertise to university students and industry professionals. He is presently the Hon. Secretary of Ahmedabad Custom Brokers' Association (ACBA), Hon. Secretary of Exim Club Ahmedabad, Executive Committee Member of Federation of Freight Forwarders' Associations in India (FFFAI) and is also involved with Gujarat History Research Centre and Brahmarshri Health & Education Research Foundation - organization working in the fields of education, health, environment and social services.

Module 5 – Dr. Ram Singh, Professor & Head (MDPs), Indian Institute of Foreign Trade has over 20 years of teaching experience including training & research specializing in Export Import Procedure, Trade Policy & Trade Logistics. He has authored two text books; first on "International Trade Operations" with Excel Publications, another on "International Trade Logistics" with Oxford University Press. He has also co-authored a book on "Exim Finance" with Vikas Publications in addition to 38 research publications and 9 Structured Content Module for trade courses for several esteemed universities.

Module 6 – Shailendra Binju, is a leading Shipping & Logistics Expert with over 38 years' experience in the field. His vast teaching experience covers subjects such as International Business at leading Business Schools in addition to having conducted over 350 executive programmes at AMA. He has also been also part of the faculty at NACEN, INS HAMLA, IMC and is a regular faculty at World Trade Centre. He has conducted several corporate training programmes and webinars on topics related to Shipping & Logistics for EEPC, ECGC & FIEO

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across the country.

Module 7 – Manisha Thaker, Vice President Trialliance Global Solutions India Pvt ltd - Faculty for Exports and Imports, Vadodara has over 20 years' experience in Logistics, Shipping and Supply Chain. She has worked with reputed organisations in Logistics and Freight Forwarding companies and brings a rich experience in the field. She has conducted over 350 seminars & webinars across the world and has been a trainer/mentor and guest faculty at various associations organisations, institutes, universities, Ministries etc sharing her practical experience on international flow of logistics and supply chain management and other related topics of exports/imports.

She is an active Executive committee member of EXIM CLUB in Vadodara. She has been felicitated with many awards & recognitions as Most Innovative company & Outstanding Woman Professional in imparting knowledge of exports to aspirants. She actively promotes Atma Nirbhar Abhiyan for being vocal for local and mentors women entrepreneurs to promote exports from the state of Gujarat and our country.

"Plexconcil has taken a great initiative for new startups to take challenges in international trade with proper knowledge and process and by spreading awareness this can help to contribute towards nations' initiative to be vocal for local to go global for an ATMA NIRBHAR BHARAT. International trade is a vast subject and requires continuous upgradation. Packaging is important and with use of technology, packaging has improved and is exporter friendly. Some specific topics like export packaging, if learnt from the experiences shared by industry professionals would certainly help in upgrading skills and knowledge to avoid any issues."

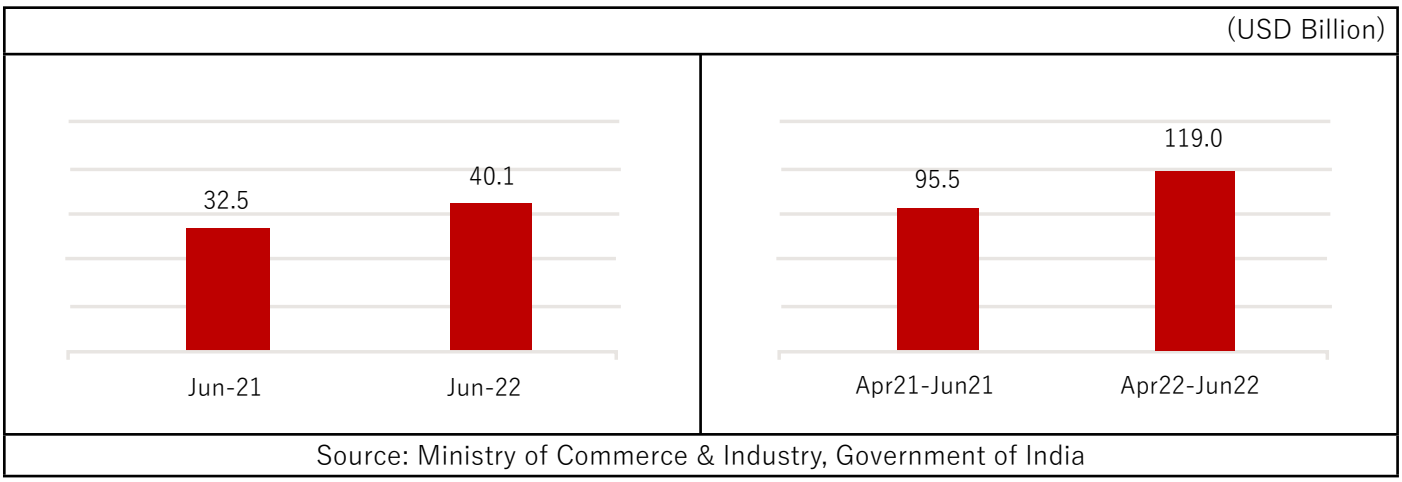
Module 8 – Sreeram Kaza, is a Taxation Expert and comes with 30 years hands on experience in all the fields of the Indirect Tax and its allied subjects – Central Excise, Service Tax, Customs, Foreign Trade Policy, GST, EOU, SEZ, FEMA, State Prohibition and Excise, Narcotic Drug and Psychotropic Substances Act.

He has authored various articles on Indirect Taxation which have been published in renowned publications and has also conducted over 200 seminars/ webinars on Indirect Tax subjects across India. He was Regional Advisory Committee Member for Central Excise and Customs and Service Tax and EXIM Club Baroda. He currently is the Vice President (Indirect Taxation) with a highly reputed Corporate in Ahmedabad, Gujarat.

TREND IN OVERALL EXPORTS

India reported merchandise exports of USD 40.1 billion in June 2022, up 23.5% from USD 32.5 billion in June 2021. Cumulative value of merchandise exports during April 2022 – June 2022 was USD 119.0 billion as against USD 95.5 billion during the same period last year, reflecting a growth of 24.5%.

Exhibit 1: Trend in overall merchandise exports from India

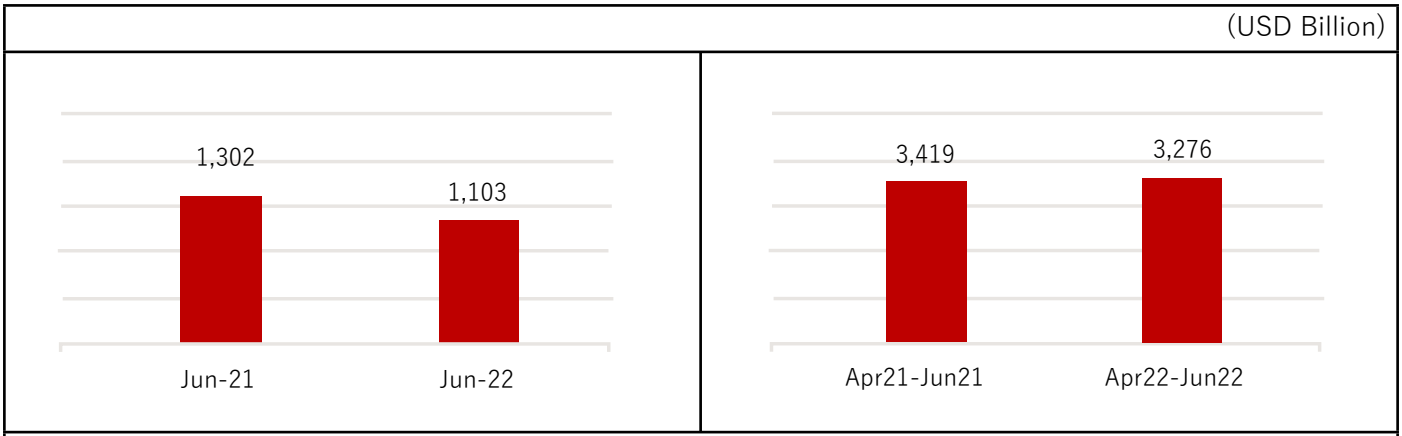


Source: Ministry of Commerce & Industry, Government of India

TREND IN PLASTICS EXPORT

During June 2022, India exported plastics worth USD 1,103 million, lower by 15.3% from USD 1,302 million in June 2021. Cumulative value of plastics export during April 2022 – June 2022 was USD 3,276 million as against USD 3,419 million during the same period last year, registering a decline of 4.2%.

Exhibit 2: Trend in plastics export by India



Source: Ministry of Commerce & Industry, Government of India

PLASTICS EXPORT, BY PANEL

In June 2022, certain product panels, namely Writing instruments & stationery; Packaging items - flexible, rigid; FRP & Composites; Medical items of plastics; Plastic pipes & fittings; Cordage, fishnets & monofilaments; and Miscellaneous products reported a strong positive growth in exports. However, product panels like Plastic raw materials; Plastic films & sheets; FIBC, woven sacks, woven fabrics, & tarpaulin; Floorcoverings, leathercloth & laminates; Consumer & houseware products; and Human hair & related products reported a decline in exports.

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

Panel	Jun-21	Jun-22	Growth	Apr 21- Jun 21	Apr 22- Jun 22	Growth
	(USD Mn)	(USD Mn)	(%)	(USD Mn)	(USD Mn)	(%)
Consumer & houseware products	63.4	59.0	-7.0%	179.0	189.0	+5.6%
Cordage, fishnets & mono-filaments	21.4	23.4	+9.2%	59.0	70.3	+19.1%
FIBC, woven sacks, woven fabrics, & tarpaulin	142.6	134.0	-6.0%	405.3	407.6	+0.6%
Floorcoverings, leather-cloth & laminates	55.8	49.4	-11.4%	157.3	159.6	+1.5%
FRP & Composites	34.6	40.1	+15.9%	100.4	119.4	+18.9%
Human hair & related products	95.7	74.4	-22.2%	219.2	186.7	-14.8%
Medical items of plastics	36.6	41.9	+14.4%	96.1	124.3	+29.4%
Miscellaneous products & items nes	68.2	79.0	+15.9%	189.0	250.3	+32.5%
Packaging items - flexible, rigid	49.4	55.8	+12.8%	146.6	166.4	+13.5%
Plastic films & sheets	184.9	168.2	-9.0%	518.0	540.2	+4.3%
Plastic pipes & fittings	20.7	25.0	+20.7%	59.5	77.4	+30.1%
Plastic raw materials	514.8	331.6	-35.6%	1,241.4	914.0	-26.4%
Writing instruments & stationery	14.2	21.6	+52.4%	48.2	70.6	+46.4%
	1,302.2	1,103.3	-15.3%	3,418.9	3,275.8	-4.2%

Source: Ministry of Commerce & Industry, Government of India

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Export of **Consumer & house ware products** declined by 7.0% in June 2022 due to lower sales of Tableware and kitchenware of plastics (HS code 392410); Other switches of plastic (HS code 85365020); and Toys of plastics (HS code 95030030). Apparently, there has been a change in the HS code of Toys of plastics due to which the correct value of exports is not being reflected.

Cordage, fishnets & monofilaments exports were up by 9.2% in June 2022 aided by improved sales of Other twine of polyethylene or polypropylene (HS code 56074900) and Made up fishing nets (HS code 560811).

In case of **FIBC, woven sacks, woven fabrics, & tarpaulin,** exports in June 2022 fell by 6.0% as Indian exporters reported a decline in sales of woven fabrics obtained from strip or the like (HS code 540720) and Flexible intermediate bulk containers (HS code 630532).

Export of **Floor coverings, leather cloth & laminates** declined by 11.4% during June 2022 on account of lower sales of Textile fabrics impregnated or coated or covered or laminated with plastics other than PVC and PU (HS code 590390).

Export of **FRP & Composites** was up by 15.9% due to increased sales of Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s (HS code 39269099).

Export of **Human hair & related products** was lower by 22.2% due to a decline in sales of Human hair, unworked (HS code 05010010) and Human hair, dressed, thinned, bleached or otherwise worked (HS code 67030010).

Export of **Medical items of plastics** witnessed an increase of 14.4% in June 2022 due to higher sales of Syringes, with or without needles (HS code 90183100); Catheters (HS code 90183910); and Cannulae (HS code 90183930).

Export of **Miscellaneous products & items nes** increased by 15.9% in June 2022 due to higher sales of Hangers (HS code 39269069); and Optical fibres, optical fibres bundles and cables (HS code 90011000).

Packaging items - flexible, rigid export increased by 12.8% on higher sales of Sacks and bags of polymers of ethylene (HS code 39232100); Carboys, bottles, flasks and similar articles (HS code 392330); Stoppers, lids, caps and other closures (HS code 392350); and Other articles for conveyance or packing of goods (HS code 39239090).

Plastic films & sheets export fell by 9.0% in June 2022 due to lower shipments of Films and sheets of polymers of propylene (HS code 392020); and Films and sheets of polyethylene terephthalate (HS code 392062).

Export of **Plastic pipes & fittings** witnessed a growth of 20.7% due to improved sales of Tubes, pipes and hoses of polymers of ethylene (HS code 391721); Rigid tubes, pipes and hoses of polymers of vinyl chloride (HS code 391723); and Other fittings (HS code 39174000).

Plastics raw materials export were lower by 35.6% in June 2022 due to a decline in sales of Polyethylene having a specific gravity of 0.94 or more (HS code 390120); Linear low-density polyethylene (HS code 39014010); Polypropylene (HS code 390210); Other Moulding Powder of polymers of styrene (HS code 390319); Other acrylic polymers in primary forms (HS code 390690); and Polyethylene terephthalate in various forms (HS code 390761). It may be noted that prices of most polymers have further softened in June 2022.

Export of **Writing instruments & stationery** witnessed an increase of 52.4% in June 2022 due to higher sales of Ball point pens (HS code 960810).

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

HS Code	Description	Apr 21 – Jun 21	Apr 22 – Jun 22	Growth
		(USD Mn)	(USD Mn)	(%)
63053200	Flexible intermediate bulk containers	226.0	243.6	+7.8%
39076190	Polyethylene terephthalate: Other primary form	236.1	162.0	-31.4%
39021000	Polypropylene, in primary forms	202.1	102.0	-49.5%
67030010	Human hair, dressed, thinned, bleached or otherwise worked	191.0	138.5	-27.5%
39232990	Other sacks and bags, incl. cones, of plastics	116.3	121.9	+4.8%
90011000	Optical fibres, optical fibre bundles and cables	93.6	151.1	+61.3%
39269099	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Other	99.2	117.0	+18.0%
39202020	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene: Flexible, plain	97.5	90.2	-7.5%
39076990	Polyethylene terephthalate: Other primary form	81.0	83.9	+3.6%
39269080	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Polypropylene articles, not elsewhere	69.2	67.6	-2.3%
48239019	Decorative laminates	63.9	72.1	+12.7%
39069090	Acrylic polymers, in primary forms (excl. polymethyl methacrylate): Other	105.6	55.7	-47.3%
39014010	Linear low density polyethylene (LLDPE), in which ethylene monomer unit contributes less than 95 % by weight of the total polymer content	91.1	20.1	-77.9%
39206220	Plates, sheets, film, foil and strip, of non-cellular polyethylene terephthalate: Flexible, plain	65.6	62.1	-5.4%
39232100	Sacks and bags, incl. cones, of polymers of ethylene	48.8	59.3	+21.6%
39012000	Polyethylene with a specific gravity of >= 0,94, in primary forms	70.5	11.0	-84.4%
59039090	Textile fabrics impregnated, coated, covered or laminated with plastics other than polyvinyl chloride or polyurethane: Other	56.2	38.1	-32.2%
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: Other	48.2	48.9	+1.3%
39239090	Articles for the conveyance or packaging of goods, of plastics: Other	42.4	47.2	+11.3%
39046100	Polytetrafluoroethylene, in primary forms	37.0	35.8	-3.2%
05010010	Human hair, unworked; whether or not washed or scoured	25.5	42.2	+65.8%
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	38.4	33.4	-13.0%
56074900	Twine, cordage, ropes and cables of polyethylene or polypropylene	27.1	32.6	+20.2%
90015000	Spectacle lenses of materials other than glass	32.5	35.0	+7.5%

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: Other	27.6	27.8	+0.8%
39073010	Epoxide resins, in primary forms: Epoxy resins	24.3	29.4	+20.7%
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: Other	37.9	27.3	-28.0%
90183930	Cannulae	21.8	34.1	+56.3%
96081019	Ball-point pens	20.9	35.2	+68.4%
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: Flexible, metallised	23.9	30.7	+28.4%
39199090	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls > 20 cm wide: Other	22.1	28.1	+27.1%
95030030	Toys of plastics	22.4	9.0	-59.7%
39241090	Tableware and kitchenware, of plastics: Other	24.9	22.9	-7.9%
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: Other	23.0	26.0	+12.9%
96032100	Tooth brushes	20.9	24.4	+17.0%
39011090	Polyethylene with a specific gravity of < 0,94, in primary forms: Other	17.8	29.3	+64.9%
39011010	Linear low density polyethylene (LLDPE), in which ethylene monomer unit contributes 95% or more by weight of the total polymer content	23.1	9.3	-59.9%
39219096	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials: Flexible, laminated	21.9	25.1	+14.8%
39095000	Polyurethanes, in primary forms	18.4	24.3	+31.9%
39119090	Polysulphides, polysulphones and other polymers and prepolymers produced by chemical synthesis, n.e.s., in primary forms: Other	15.2	21.1	+38.3%
39140020	Ion-exchangers based on polymers of heading 3901 to 3913, in primary forms	18.3	19.1	+4.7%
39129090	Cellulose and chemical derivatives thereof, n.e.s., in primary forms: Other	15.9	22.3	+39.9%
39241010	Insulated tableware and kitchenware of plastics	15.4	14.5	-5.8%
39204900	Plates, sheets, film, foil and strip, of non-cellular polymers of vinyl chloride, containing by weight < 6% of plasticisers	15.5	19.2	+23.7%

59031090	Textile fabrics impregnated, coated, covered or laminated with polyvinyl chloride: Other	18.1	20.3	+12.3%
39181090	Floor coverings, whether or not self-adhesive, in rolls or in the form of tiles, and wall or ceiling coverings in rolls with a width of >= 45 cm, consisting of a layer of plastic fixed permanently on a backing of any material other than paper, the face side of which is grained, embossed, coloured, design-printed or otherwise decorated, of polymers of vinyl chloride: Other	14.4	19.8	+37.1%
39206929	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: Other	17.5	18.1	+3.6%
39235010	Stoppers, lids, caps and other closures, of plastics	17.5	18.4	+5.3%
39191000	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, in rolls <= 20 cm wide	13.1	21.7	+65.6%
39201019	Plates, sheets, film, foil and strip, of non-cellular plastics, not reinforced, laminated, supported or similarly combined with other materials, without backing, unworked or merely surface-worked or merely cut into squares or rectangles: Other	14.9	18.8	+26.7%

Source: Ministry of Commerce & Industry, Government of India

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How to Register as PIBO /PWP under EPR Guidelines

Faced with increasing amounts of waste, many governments have reviewed available policy options and concluded that placing the responsibility for the post-consumer phase of certain goods on producers could be an option. Extended Producer Responsibility (EPR) is a policy approach under which producers are given a significant responsibility – financial and/or physical – for the treatment or disposal of post-consumer products. Assigning such responsibility could in principle provide incentives to prevent wastes at the source, promote product design for the environment and support the achievement of public recycling and materials management goals. EPR means the responsibility of a producer for the environmentally sound management of the product until the end of its life.

Frequently Asked Questions

1. Have EPR Guidelines been notified by Government?

Yes. MoEF&CC vide Fourth Amendment to Plastic Waste Management Rules 2016 notified EPR Guideline on February 16, 2022

2. Which entities shall register on the centralized portal developed by CPCB?

The following entities shall register on the centralized portal developed by CPCB:

- Producer (P)
- Importer (I)
- Brand owner (BO)
- Plastic Waste Processor engaged in (a) recycling, (b) waste to energy, (c) waste to oil, and (d) industrial composting.

3. What assistance is provided for filling of application?

- AI Chat bot has been provided at right side of the login and sign up page of the portal.
- Helpline no. : 011- 43102469
- i-button with assisting provided in specific sections

- Standard Operating Procedure uploaded on website'
- Instruction sheet for filing of application uploaded on website

4. Which PIBOs are required to register with SPCB/PCC?

PIBOs which are operational in one or two states/ UTs are required to register with the concerned with SPCB/PCC

5. Which PIBOs are required to register with CPCB?

PIBOs which are operational in more than two states/UTs are required to register with CPCB.

Note: Brand Owners (BO) including online platforms/marketplaces and supermarkets/retail chains other than those which are micro and small enterprises as per the criteria of Ministry of Micro, Small and Medium Enterprises, Government of India

For details Section 3 & 4 of aforementioned EPR Guidelines may be referred to

6. What are the documents required for KYC for registration of PIBOs?

- PDF copy of Company's PAN, CIN & GST (the combined copies of GST invoices in all the States/UTs where the PIBO is operating).
- PDF copy of Authorized person's PAN & Aadhar.

Note: Proprietorship and partnership firms shall provide PAN and GST number for registration on EPR portal. CIN number is applicable for the companies registered with Ministry of Corporate Affairs.

7. Which are the plastic packaging categories covered under EPR?

The following plastic packaging categories are covered under EPR:

Category I : Rigid plastic packaging
Category II : Flexible plastic packaging of single layer or multilayer (more than one layer with different types of plastic), plastic sheets or like and covers made of plastic sheet, carry bags, plastic sachet or pouches
Category III : Multilayered plastic packaging (at least one layer of plastic and at least one layer of material other than plastic)
Category IV : Plastic sheet or like used for packaging as well as carry bags made of compostable plastics *For details please refer EPR Guidelines (Section 5)*

8. What is Pre-consumer plastic packaging waste?

Pre-consumer plastic packaging waste" means plastic packaging waste generated in the form of reject or discard at the stage of manufacturing of plastic packaging and plastic packaging waste generated during the packaging of product including reject, discard, before the plastic packaging reaches the end-use consumer of the product.

9. What is Post-consumer plastic packaging waste?

"Post-consumer plastic packaging waste" means plastic packaging waste generated by the end-use consumer after the intended use of packaging is completed and is no longer being used for its intended purpose.

10. What is EPR target for Producers & Importers?

EPR target is the plastic waste which is introduced in the market by the PIBO . Details given in section 7 of the EPR Guidelines may be referred to.

11. Whether all PIBOs are required to submit Consent granted under Air &Water Act

All producers are required to submit the consents issued to their production facilities. Brand-owners having their own production facilities are required to submit the consents.

12. How much application fees / annual processing/ renewal fees to be paid for Registration of PIBOs/ PWP?

The details of fees to be paid by PIBO/ PWP is as given below:

details of fees to be paid by PIBO/ PWP is as given below:

a. Application fees for Registration of PIBOs

Sl. No.	PW Generation Slab (TPA)	Proposed Processing Fees (Rs.) #
1	<1000	10000
2	1000-10000	20000
3	>10000	50000

b. Application fees for Registration of PWP

Sl. No.	Production capacity Slab (TPA)	Proposed Processing Fees (Rs.) *
1	< 200	5000
2	200-2000	20000
3	>2000	50000

c. Renewal fees : Same as Registration fees

d. Annual Processing Fees: 25% of Application fees (for PIBOs as well as PWP)

13. Our entity collects plastic waste; do we need to register as PWP?

Only entities engaged in plastic waste processing (recycling, co-processing, waste to energy, waste to oil) have to be registered as PWP.

14. What if PIBO has inhouse recycling unit for their packaging plastic?

PIBO will have to register as PIBO and as Recycler both with relevant documentation. Credits can only be issued to recyclers and transaction of credits to PIBO shall be documented.

15. What are the documents required to register on the centralized portal, if entity falls in more than one sub category?

- Different email id is required to register in each category.
- Company KYC (Company's PAN, GST & CIN) documents shall be same for each category.

16. What shall be proportion of plastic waste in Municipal Solid Waste (MSW) in case of co-processing and incineration of plastic waste at Co-processing and Waste to Energy plant?

Equivalent quantity of plastic shall be considered for generation of EPR Certificates. Characterization of waste may be carried out to determine the actual plastic quantity. As per report titled "Assessment & Characteristics of Plastic Waste generated in 60 cities", published by CPCB, average plastic waste generation is around 6.92% of MSW. In absence of actual characterization, this average plastic percentage shall be considered for the purpose.

17. What shall be proceedings in case of rejection of application?

- If entity is operating in one State/UT or more than two states/UTs: The applicant has to apply for fresh application on the portal with same login credential and repay the applications fees as per SOP.
- If entity is operating in two States/UTs: The applicant has to apply for fresh application on the portal with same login credential and repay the applications fees as per SOP. In case application is rejected by one or both State/UTs.

18. What shall be liabilities of producer/importer in case concerned Brand owners are currently not registered on the centralized EPR portal?

The producer/importer may register on the said portal and their liabilities for fulfilling of EPR target to be adjusted during filling of Annual report on the portal if the concerned Brand owners are currently not registered on the centralized EPR portal.

19. What shall be EPR liabilities of any entity if its falls under the category of brand owner as well as importer?

The entity first has to register as a brand owner and provide the entire details in terms of plastic waste generation included imported plastic by the firm. After registration as brand

owner the entity shall register as importer, provide details of imported plastics and the imported material sold to the said brand owner. Therefore zero liabilities has to be fulfilled by the firm as importer.

20. What material is to be considered for EPR in case of MLP (at least one layer of plastic and at aleast one layer of material other than plastic)?

Weight of the plastic layer is to be considered for EPR in case of MLP (Category-III)

21. What is the EPR liability associated with third party manufacturer of products?

If the third party does not have a brand name associated with them, the EPR liabilities are to be taken by the concerned Brand Owners/Producers to whom the product is being sold.

22. What is the definition of "Operations" for PIBOs ?

Operation means selling of plastic packaging product or products with plastic packaging or carry bags or multilayered packaging or plastic sheets or like into the Indian Market.

23. What is the definition of "Raw material" for Brand owners, Producer & Importer?

Raw material for Brand owner and importer is plastic packaging of products or carry bags or multilayered packaging or plastic sheets or like. Further, raw material for Producer is resin/granules being used to manufacture carry bags or multilayered packaging or plastic sheets or like.

24. Do PIBOs who have obtained a valid CPCB/SPCB/PCC registration also need to apply on the Centralized EPR Portal?

All the PIBOs need to apply on the Centralized EPR portal with necessary application fee.

25. Are units engaged in export exempted from fulfilling EPR Obligations?

Yes. Export oriented units are exempted from fulfilling EPR obligations

26. Which category of PIBOs are exempted from fulfilling EPR obligation?

The Micro & Small category of Brandowners are exempted from fulfilling EPR obligation. Remaining all entities are required to be registered on Centralized EPR portal in line with notified EPR Guidelines

27. We do not import plastic packaging but products with plastic packaging so what information should we submit under 8 (a) and 8 (b)?

Details of plastic packaging which is imported along with the product is to be given in this section

POLYMER PRICE TRACKER (DOMESTIC MARKET) JUNE 2022

High Density Polyethylene (HDPE) ↑ ↑ ↔ Apr-22 May-22 Jun-22	• HDPE prices were unchanged in June 2022 after witnessing an increase of Rs 1000 per MT in May 2022 and Rs 4000 per MT in April 2022. • In June 2022, HDPE did not witness any significant price change and remained rangebound.
Linear Low-Density Polyethylene (LLDPE) ↑ ↔ ↔ Apr-22 May-22 Jun-22	• LLDPE prices remained unchanged for the second consecutive month in June 2022. Prices had last witnessed an increase of Rs 2000 per MT in April 2022. • In June 2022, LLDPE did not witness any significant price change and remained rangebound.
Low Density Polyethylene(LDPE) ↓ ↓ ↓ Apr-22 May-22 Jun-22	• LDPE prices dropped by Rs 6000 per MT in June 2022 after a decline of Rs 3500 per MT in May 2022 and Rs 1500 in April 2022. • In June 2022, LDPE prices were reduced in the very first week itself. Thereafter no price changes were announced.
Polypropylene (PP) ↓ ↓ ↓ Apr-22 May-22 Jun-22	• PP prices fell by Rs 4000 per MT in June 2022 after a decline of Rs 11000 per MT in May 2022 and Rs 3000 in April 2022. • In June 2022, PP prices were reduced in the very first week itself. Thereafter no price changes were announced.
Polyvinyl Chloride (PVC) ↓ ↓ ↓ Apr-22 May-22 Jun-22	• PVC prices softened by another Rs 10000 per MT in June 2022. Prices had declined by Rs 10000 in May 2022 and Rs 4000 in April 2022. • In June 2022, PVC prices were reduced by Rs 6000 per MT in the first week. The next price cut took place in the third week of the month.

Source: Industry, Plexconcil Research

MYANMAR
Economic overview

Myanmar is located in Southeast Asia, sharing land borders with six countries including Bangladesh, China, India, Laos, and Thailand. It has an area of 676,578 square kilometres and a population of 53.6 million. The economy of Myanmar has been in deep turmoil due to COVID-19 pandemic and the military coup on 1st February, 2021. However, with manufacturing sector showing signs of expansion, and international flights resuming their services, trade and tourism are likely to get a major boost.

Therefore, despite the headwinds and political uncertainty, Myanmar continues to be a potential export destination for Indian products.

Economic indicators		2019	2020	2021
Nominal GDP	USD Billion	68.8	81.3	65.2
Nominal GDP per capita	USD	1,302	1,527	1,217
Real GDP growth	%	6.8	3.2	-17.9
Total population	Million	52.8	53.2	53.6
Average inflation	%	8.6	5.7	3.6
Total merchandise exports	USD Billion	19.7	19.2	18.9
Total merchandise imports	USD Billion	27.1	26.3	21.3

Source: IMF, TradeMap

Myanmar being a member of the Association of Southeast Asian Nations (ASEAN) has trade agreements with Australia, New Zealand, China, Japan, Republic of Korea, and India.

Trade overview

India and Myanmar enjoy cordial trade relations and have traditionally shared important economic linkages. In 2021-22, India and Myanmar engaged in bilateral trade worth USD 1.89 billion. During the year, India's exports to Myanmar were valued at USD 0.89 billion while India's imports from Myanmar were valued at USD 1.00 billion.

The major items of export (2-digit HS) from India to Myanmar are pharmaceuticals (USD 324 million), human hair (USD 170 million), and cotton (USD 46 million). Likewise, major items of export (2-digit HS) from Myanmar to India are vegetables (USD 760 million), and wood and articles of wood (USD 50 million).

For products that come under the purview of PLEXCONCIL, the trade is in favour of India with exports of USD 188.2 million to Myanmar and a trade surplus of USD 187.3 million. The major items of export to Myanmar being:

- Human hair & products thereof (90.4%)
- Plastic raw materials (5.6%)
- Writing instruments (0.9%)
- Plastic sheets and films (0.7%)

Myanmar's annual plastics imports are valued between USD 1.4 – 1.6 billion. Its plastic imports are largely catered to, by China (54%), and Thailand (21%).

Export potential for India

Our internal research indicates that India's export of PLEXCONCIL member products to Myanmar has the potential to grow by over USD 1.0 billion. Details of product panels and their export potential to Myanmar is provided below:

Product panel	Myanmar's import from India	Myanmar's import from world	India's export to world	Export potential for India
	USD Million	USD Million	USD Million	USD Million
Plastic raw materials	8.6	408.2	3,995.9	367.1
Plastic films and sheets	2.2	194.1	1,905.1	186.4
Consumer & houseware products	0.5	212.5	1,460.6	156.4
Floorcoverings, leathercloth & laminates	1.2	199.9	770.2	90.8
Miscellaneous products and items nes	1.2	126.6	1,253.1	88.5
Packaging items - flexible, rigid	1.2	54.9	595.8	53.6
FIBC, woven sacks, woven fabrics, tarpaulin	0.7	57.3	1,682.4	52.1
Plastic pipes & fittings	0.2	51.6	266.3	51.3
Cordage, fishnets & monofilaments	0.1	51.6	262.5	48.5
Medical items of plastics	3.1	29.1	891.5	26.0

Source: TradeMap, Plexconcil Research

Amit Pal, Director, Kolor Impex

The impact of Covid 19 as well as the takeover of power by Military regime has been many folds as far as exports is concerned. The Myanmar currency has taken a nosedive against U S dollars so importers found it difficult to purchase from overseas as goods importation became very costly. Then Ocean freight has touched the ceiling making it difficult for exporters to absorb the galloping increase of freight on CIF PRICES.

Export orders have dropped by 60% as not many vessels are going to Yangon from Singapore or Malaysia. Furthermore, vessels that are going to Yangon sometimes skip schedules, thereby extending the transit time.

Despite sharing borders with the country, China still remains the largest exporter to Myanmar. Myanmar importers find Chinese goods cheaper than Indian goods e.g. Permanent markers, scissors, pocket calculator, spectacle frames and many such items. However, the scope of exports of Indian plastic goods to Myanmar is enormous. Caps and closure, plastic PET containers, combs, Ball pens, Mathematical Geometry Boxes, pencil boxes, Pencils, erasers and sharpeners are in great demand even today.

We need to have an exclusive India trade fair show showcasing Indian products. Frequency of direct vessels from Kolkata port to Yangon is needed to bring down freight which shall also minimize transit time.

Abdul Rasheed Veluthedath, Director, Walkaroo International Pvt Ltd.

What is the impact of the continuous turmoil in Myanmar on exports? What are the typical challenges faced by exporters in general?

From the beginning of COVID-19 pandemic in 2020 most companies have come across reduction in sales, shortage of funds and difficulty in banking facilities. The pandemic and other economic/ regional reasons impacted the Farmers, Manufacturing, garments, tourism, construction, and hospitality people income. The purchasing power of the people has reduced due to the same.

There is a tremendous increase in the retail prices of almost all commodities; For instant cooking oil price has increased almost 3 times its earlier price before the coup, and the price of overall food imports increased by 20-50 percent resulting in reduction of business.

The drastic increase of freight charge affected us to be competitive in the market. There was an increase of more than 100% while comparing with the freight before the Pandemic. There is a tremendous increase in the retail prices of almost all commodities; For instant cooking oil price has increased almost 3 times its earlier price before the coup, and the price of overall food imports increased by 20-50 percent resulting in reduction of business.

The drastic increase of freight charge affected us to be competitive in the market. There was an increase of more than 100% while comparing with the freight before the Pandemic.

The country is planning to implement policies to high import tax on finished goods to increase their domestic production which adversely affect the export of goods from India.

Despite sharing borders with the country, China still remains the largest exporter to Myanmar. What is the potential for Indian plastics exports?

Myanmar's geographic location gives it a natural advantage as it forms a strategic link between South Asian and Southeast Asian markets. India-Myanmar is a crucial link to the ASEAN market, and an avenue for development of India's Northeast Region (NER).

In Indian Plastic Industry out of the total annual economic activity of 3 Lakh crores one third of it is exported. The Indian plastic companies are well expertise in the process along with better infrastructure and skilled manpower. The industry has the potential to create more employment opportunities and generate more foreign income to our Nation.

What is the kind of support needed by exporters to enhance trade with the country?

The Govt. and related Institutions have taken great efforts to enhance the trade activity with the countries. The recent INDIA-UAE CEPA was an example for that. Along with the efforts the Govt. and the organisation should take steps to help the domestic manufactures to participate in the International Trade Fairs and help them to get potential buyers through the Trade & Industrial Centre of Foreign Country.

How is the overall ease of doing business in Myanmar?

Even though the Pandemic affected the operational ease in Myanmar, the situation recovered gradually. The huge increase of freight had adversely affected the competitive pricing strategy when we compare with China, Thailand, and Bangladesh products. Ease of doing business rating showing an average annual growth rate of 2.72%. The stable socio-political stability and support will be a major point which hinders the ease of doing things.

Insulating Fittings of Plastics

Insulating fittings of plastics generally find use in electrical machines, appliances or equipment. There has been an increasing preference for Insulating fittings of plastics as they are cheaper and light weight in comparison to those made of ceramic, glass and other materials.

The product is classified under Subheading 854720 of the Harmonized System (HS) of Coding.

World-wide import of Insulating fittings of plastics is valued at USD 5.0 billion per year approximately.

- In 2021, top-5 exporting countries of Insulating fittings of plastics were: Germany (26.6%), Czech Republic (12.2%), Japan (12%), Hungary (6.7%), and Belgium (4.3%).
- Likewise, top-5 importing countries of Insulating fittings of plastics were: Germany (12.6%), China (10.9%), Czech Republic (8.6%), Romania (5%), and Hungary (3.9%).

In 2021-22, India exported 1372 tonnes of Insulating fittings of plastics valued at USD 17.95 million to the world. United Arab Emirates and Saudi Arabia were the top-2 export destinations both in terms of value as well as volume.

Destination Country	Value (USD Mn)	Destination Country	Qty. (Tonnes)
United Arab Emirates	4.47	United Arab Emirates	409.1
Saudi Arabia	2.29	Saudi Arabia	240.1
Kuwait	1.81	Kuwait	233.2
United States of America	1.46	Germany	64.6
Belgium	0.95	Belgium	61.4
Germany	0.94	United States of America	55.8
Thailand	0.93	United Kingdom	55.2
United Kingdom	0.88	Thailand	53.0
Indonesia	0.60	Malaysia	43.1
China	0.52	Indonesia	32.9

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

In 2021-22, India imported 9495 tonnes of Insulating fittings of plastics valued at USD 163.70 million from the world. Japan was the major supplier in terms of value, while United Arab Emirates was the top supplier in terms of volume.

Source Country	Value (USD Mn)	Source Country	Qty. (Tonnes)
Japan	36.56	United Arab Emirates	2,526.8
South Korea	34.02	Japan	2,046.1
United Arab Emirates	32.62	South Korea	1,550.6
Singapore	11.89	China	695.5
China	8.31	Germany	664.0
Germany	7.92	Singapore	344.4
Thailand	7.73	United States of America	330.8
United States of America	6.07	Thailand	317.2
Hong Kong	2.92	Belgium	154.5
Belgium	2.41	Poland	136.7

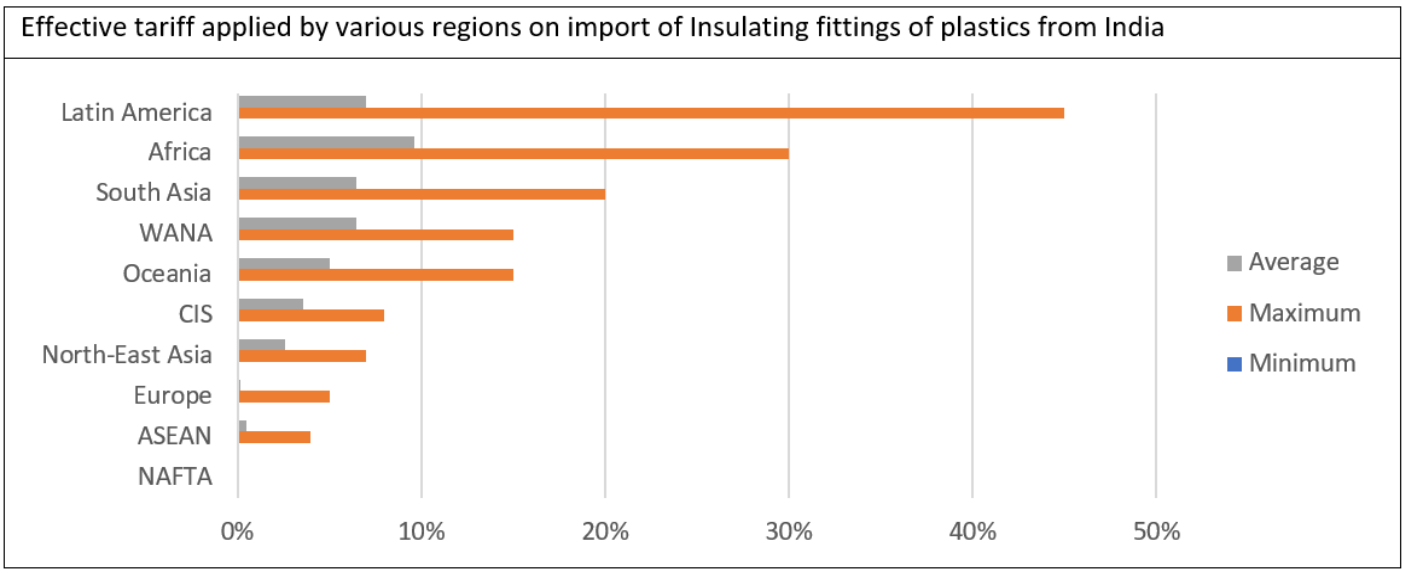
Source: Department of Commerce, Govt. of India, Plexconcil Research

Indian firms dealing in Insulating fittings of plastics, have immense potential to export to destinations like Romania, Hungary, Viet Nam, Mexico, Poland, Türkiye, United States of America, Morocco, Philippines, and Tunisia.

Import of Insulating fittings of plastics from India by the European Union countries is eligible for zero customs duty due to Generalised Scheme of Preferences Scheme. There is zero duty applicable on import of Insulating fittings of plastics, from India in Republic of Korea under India-Korea Comprehensive Economic Partnership Agreement. In fact, few of the ASEAN countries like Cambodia, Laos, Philippines, and Thailand also allow zero duty imports of Insulating fittings of plastics under the ASEAN-India Free Trade Agreement. Import of Insulating fittings of plastics is eligible for zero customs duty in Australia, Canada, Japan, Malaysia, Mauritius, Mexico, Singapore, United Kingdom, United States, and Viet Nam.

Unfortunately, several countries in Latin America, Africa, South Asia, and WANA do not accord any preferential treatment to Insulating fittings of plastics exported from India due to which the average customs duty faced on this product is high.

Effective tariff applied by various regions on import of Insulating fittings of plastics from India



Source: Market Access Map, Plexconcil Research

The Contract Manufacturing Checklist

Now more than ever, a common question that companies that want to produce and sell Machinery, Equipment, Instrument and other Major Mechanical Assemblies ask themselves is “How will I make my product?” The investment involved with setting up an entire manufacturing operation is an enormous barrier to making the OEM product in house. Inevitably, “Find the right Contract Manufacturer” is the answer for many companies. But landing on that square is just the beginning.
ng Managers, Engineers and Sourcing specialists - who have evaluated Contract Manufacturing for their machinery are ready to share some insight with this guide.

Important factors for choosing the right Contract Manufacturer are specific to any company indeed, but this checklist will give you a great head start during your own due diligence. This guide highlights and expands on 5 major categories: Program Partnership, Onboarding, Production, Engineering and Company.

The journey of choosing a Contract Manufacturer will take weeks or months, but by utilizing this guide you can choose the right partner to guarantee successful production of your equipment.

PROGRAM PARTNERSHIP

DEDICATED PROGRAM MANAGEMENT & PRODUCTION TEAM

Program Management is critical for Contract Manufacturing success. A Program Manager should be assigned to each customer to monitor Cost, Quality and Delivery and must be a single point of contact for customer interface responsible for managing all the individual specifications and requirements inherent to the program.

QUALITY SYSTEM

The Quality system, which may include ISO 9001, ISO 13485 or AS 9100, is the backbone of a successful and repeatable manufacturing system. The strongest companies employ a QMS that overarches all facets of the contract manufacturing operation. With these systems in place, products can be consistently built each and every day, dramatically reducing the risk of discrepant products ever reaching the customer destination.

GOOD COMMUNICATION

Communication is everything. From the Program Management team to the corporate executive team, it's absolutely critical that a communication line is established with the customer. The CM should be proactive to ensure that inevitable manufacturing concerns are remedied with the customer as soon as possible.

PROTECTION OF INTELLECTUAL PROPERTY

High-Tech OEM's often have proprietary systems, processes and techniques that are vital to the success of their business. A great contract manufacturing partner will ensure that IP is protected and remains completely owned by the OEM. Beware of CMs without the commitment to IP ownership protection as well as the various security protocols that physically protect it.

ONBOARDING

NEW PRODUCT INTRODUCTION (NPI) PROCESS

A highly developed NPI process is key to successfully onboarding new programs. The process of transferring knowledge of machinery and equipment designed by two companies requires special attention. Look for CMs that have years of knowledge in this transfer. This process includes tasks such as current state evaluation, design maturity review, functional assessment and others to ensure a rapid transfer to a manufacturing setting.

PROTOTYPE/QUALIFICATION BUILDS

Before a piece of equipment can move to the production line, prototyping and qualification builds are mandatory. Even if the design is well into a mature stage, in most cases there are particularities of the build that must be performed and documented a few times to ensure repeatability in the future. At this stage, high-level toolmakers and electricians are involved with both the NPI and production teams so that high-quality builds can be ensured in perpetuity.

CREATE A PROFESSIONALLY DOCUMENTED MANUFACTURING PACKAGE

The onboarding process consists of one of the most critical steps: creating a professional manufacturing package that is the framework for the production process. This step will ensure that all BOMs are up to date, prints are manufacturable, work instructions are complete, Quality plans are in order and the entire program is ready for production. Any good CM has these processes in place for true repeatable manufacturing.

TESTING AND PRODUCT ACCEPTANCE

A good Contract Manufacturing philosophy describes the ability to take a sophisticated machinery or equipment product, and formally agree upon all the attributes that must be satisfied before the product can be shipped. Program stakeholders from both the OEM and CM are involved in this critical portion of the onboarding process.

PRODUCTION

COMPONENT MANUFACTURING – CNC MACHINING/ SHEET METAL

Vertical Integration is a key part of a Contract Manufacturer's success, especially for those that deal in lower or mid volumes (tens to hundreds yearly). CNC Machining, Sheet Metal Fabrication, Welding and Cable Harnesses are typically involved in the manufacturing of machinery, equipment, instruments and other major mechanical assemblies.

In-house component manufacturing benefits the customer by providing the CM with excellent control over cost, quality and lead time across everything on the assembly line.

WELDING

MIG, TIG, Spot and Robotic welding are all used in the fabrication of frames, cabinets, enclosures and other parts involved in the manufacture of machinery and equipment. A proper welding department with certified welders, ample welding equipment and the right material handling capabilities are critical for this type of manufacturing. These days, great welding departments are hard to come by, so having a CM with in-house capabilities is an enormous advantage to any OEM looking to outsource.

PAINT SHOP

Paint is a consistent problem for everyone. Hours and hours of careful planning and coordinating to get to the final steps of an assembly, can be altered by complications with paint which can make or break the deadline. By having in-house paint services, these lead time issues (as well as markup issues) are avoided at the time it matters most.

ASSEMBLY/INTEGRATION TEAM

When production is in effect, a great CM will have a team of experienced, competent and trained individuals to carry out the assembly and integration. These experienced professionals will be supported by their supervisors, tools, techniques and a manufacturing system that ensures the team's success. For most programs, the technicians will be trained specifically for the product, while the tools and workstations will be optimized for a world class build quality and efficiency.

PRODUCTION VOLUME RAMP-UP

A CM that has great communication with the customer should have a working knowledge of expected ramp-ups and a plan of action for when demand surges. Whether it's people, processes, space or tools, the best CMs understand that demand levels may rise quarterly or even weekly. Armed with this knowledge, the right contract manufacturer for the job will be ready to expand when the customer needs it the most.

SUPPLY CHAIN MANAGEMENT

Behind the scenes of a Contract Manufacturing company is a team of people managing the entire supply chain for each program. Products built at a CM have hundreds of parts in their BOM with some custom manufacturing. Typically, about half of those parts are off the shelf motors, drives, hardware and other commercial components. The supply chain works hard to manage all these parts so the OEM is only responsible for the top-level part number when placing orders.

PACK AND DROP SHIP TO END USER LOCATION

Does your CM have the ability to send fully functional, tested and packaged product directly to its final destination? This might seem obvious, but when you choose a CM make sure they can truly deliver your complete machine or instrument where it needs to go, not just back to you.

ENGINEERING

PRODUCT/TECHNOLOGY EXPERIENCE

No CM can be an expert at everything, but it helps to know when your manufacturer has experience in your field. Experience can mean industry, like Defense or Medical, or by technology, such as motion control or vision systems. Regardless, some engineering familiarity with the project type will be extremely advantageous.

CONTROLS AND ELECTRICAL COMPETENCY

Machinery, Equipment, Instruments and other high-tech assemblies typically share an attribute of electrical componentry. Sensors, PLCs, power supplies, vision systems and other components are exceedingly common in such systems. CMs for these types of builds must absolutely have a team of electricians, techs and engineers

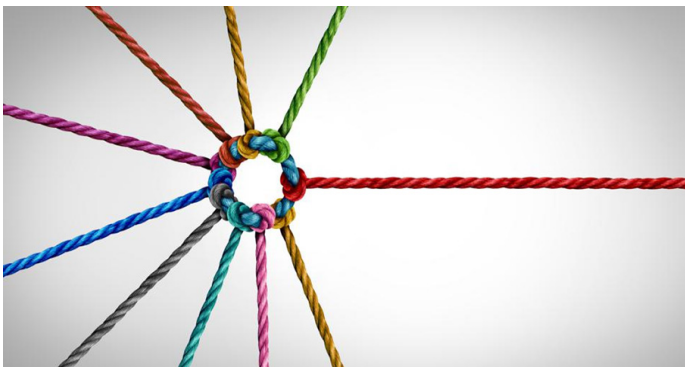
that can ensure your product is brought to life properly in both the prototype and production phases.

REVERSE ENGINEERING

In the Contract Manufacturing world, not all technical data is readily available when the OEM engages with the manufacturer. Certain programs require various degrees of reverse engineering to fill in the gaps as needed.

PRODUCT DESIGN UPGRADE/REFINEMENT ABILITY

More often than not, OEMs have improvements to implement and must refine or optimize a design before the Contract Manufacturer takes the product into full-rate production. This often requires an engineering team to take a second look at things like DFMA, tolerance stack-ups, drawing updates and compatibility. Also, future generations may be planned in parallel with the current generation models and the CM must be equipped to assist.



COMPANY

LONGEVITY

It's important to choose a CM with a long track record of success. Manufacturing is a data-driven world filled with talented experts. Companies with decades of experience have seen the evolution of industry technologies and are well aware of the pitfalls that await production manufacturing. A CM with a proven history is likely to head into the future with you and your product.

COMPANY CULTURE SYNERGY WITH OEM

A company culture that matches your own is a great indicator of success. Some company culture attributes you can evaluate during your due diligence include business methodology, communication, responsiveness, teamwork and commitment to customer satisfaction.

FINANCIAL STABILITY

Choose a CM with a financial profile in which you're comfortable with. A debt-free company can buy space, machinery and tools at a moment's notice to react to your needs. Companies that are financially stable are more likely to make smart decisions on your behalf, and you'll have the peace of mind knowing that your Contract Manufacturer will be safe from financial turmoil.

TOUR

Take a tour of the facilities. Ask yourself the following questions: Is the company willing to let you come visit? Is this a clean, safe environment for your product? Do the employees have enthusiasm and pride in their work? Do you see the processes that would be involved with your product? Is the management team seem easy to work with? Does the company reinvest in itself? If your answers are all yes to these questions, then you should feel confident with the CM's capabilities and reliability.

The original article is published in forgemass.org

Thin-wall tubing: composites are worth considering

Patrick Loock, segment business owner for products and applications at composite tubes manufacturer Exel Composites, explains why manufacturers should reconsider using composites thanks to advances in customised hybrid composites.

When it comes to thin-wall tubes for applications where stiffness and robustness requirements have generally favoured the use of metals because of their high stiffness and relatively low price. Traditionally, composites have not been able to replace metals in these applications because glass fibre composites, while lighter, lack the necessary stiffness. Alternatively, carbon fibre composites, while being mechanically suitable, may be considered too expensive.

Generally, thin wall composites are anything with a thickness between 0.9 mm and 2 mm and are used for a variety of applications across many different industry sectors, including camera tripods, window cleaning poles, IMR equipment, telescope poles, and camouflage support poles.

Traditionally, metals such as aluminium and steel are used in these applications. Sustainability trends and light-weighting are pushing manufacturers to improve operational efficiencies by reducing weight without sacrificing mechanical properties. Typically, we see this is when composites are considered, and we are always asked how could composites replace metals in these applications?

Tunable mechanical properties

For thin-wall tubes in industrial applications, stiffness is a key consideration. Aluminum, which has been the traditional material of choice for many, has a stiffness of 70 gigapascals (GPa). Glass fibre, which is often the first choice for composite solutions because of its relatively low price, provides the desired weight savings compared to aluminium for tubes of equal dimensions but only has a stiffness of 35 GPa. Therefore, to match the stiffness of aluminium, usually thicker tubes are needed, impacting existing design specifications and reducing weight savings.

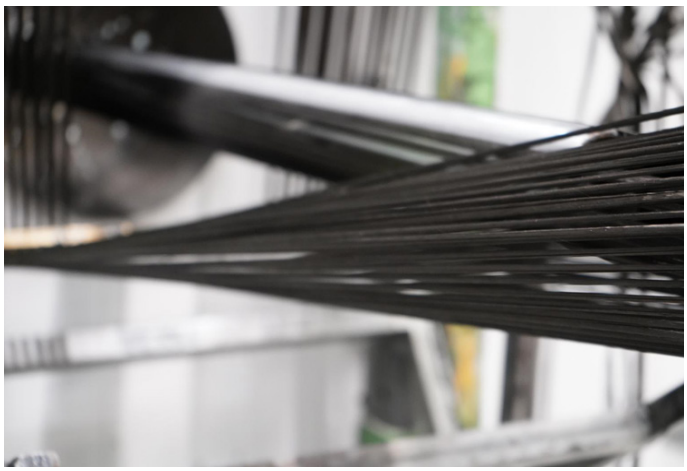
Carbon fibre composites tick all the boxes in terms of mechanical properties. They are much lighter than metals and boast much higher stiffnesses, with basic carbon fibre tube having a stiffness of 120 GPa and high-modulus carbon fibre tube having stiffness up to 210 GPa. However, carbon fibre composites are also more expensive than metals, with solutions costing around five times as much. This is where hybrid composites come in, providing the best of both worlds.

Hybrid composites, a combination of both glass and carbon fibres, allow manufacturers to tailor mechanical properties for any given application without changing the specified dimensions of the tubes or poles by adjusting the ratio of glass fibre to carbon fibre in the structure. For example, for window cleaning poles, a customer might require a pole predominantly made from glass fibre for cleaning two-story buildings but need something with a higher ratio of carbon fibre, providing extra stiffness, for poles intended for cleaning five-story buildings. This is a simple task for an experienced composites partner to produce composites tailored for your specific application.

Benefits of volume pull-winding manufacturing

For high volume cost-competitive composite production, continuous manufacturing processes, such as pultrusion and pullwinding, are advantageous because they ensure consistent high-quality production and high levels of repeatability. Pullwinding is particularly useful for manufacturing hybrid composites because it allows for cross-directional control of mechanical properties and selective reinforcement of the thin-wall composite tubes, meaning there is no wasted material and costs are kept as low as possible.

It does this by combining the unidirectional alignment of fibres with the helical winding of reinforcements, resulting in the ability to control unidirectional fibres and helical winds, from a few degrees up to 90 degrees.



Manufacturing thin-wall composite tubes is possible using other manufacturing techniques, such as filament winding, however these require more manual steps and are more suited for thick tubes with large diameters. Furthermore, because they involve more manual steps and smaller manufacturing volumes, it is often the case that thin-wall composite tubes manufactured using filament winding are more expensive.

By working with an experienced and knowledgeable composites partner who understands your application's requirements and operational challenges, you can ensure you get the optimal solution for any given application. Exel Composites has over 40 years of industry experience manufacturing thin-wall composite tubes and can work with you to develop the optimal hybrid composite for your application, enabling you to cost-efficiently reduce equipment weight without sacrificing mechanical performance.

Source: Reproduced from Interplas Insights

Biggest Innovations In Plastic 2022

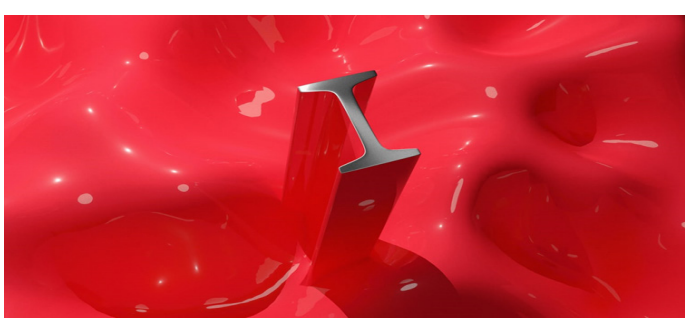
The plastics industry is constantly evolving. Companies and manufacturers are continually looking for new ways to meet consumer demands and new regulations and find new and exciting ways to use and reuse plastic. transparent polymer resin.

While the idea of recycling and renewable materials is not new, consumers and lobbying groups have increased the demand for reusable materials in recent years. This, among other factors, has led to innovations in the plastics world in recent years.

This year is no exception. That's why we're taking a look at some of the most interesting and exciting inventions in the plastic world.

Stronger than steel

Chemical engineers at MIT have recently created a new plastic-like material that's said to be stronger than steel and bulletproof glass while maintaining the weight and flexibility of plastic.



The material, dubbed 2DPA-1, is the first flat, two-dimensional polymer. It self-assembles into sheets and forms a one-dimensional chain. Its building blocks are firmly locked together, much like how Lego pieces stick together. Before this, researchers believed it was impossible to induce polymers to form 2D sheets.

Researchers are already looking at the material as an option for car parts, cell phones and building materials.

Better packaging

Klöckner Pentaplast has developed the first pharmaceutical blister film designed to be recycled in the RIC 1 recycling stream. Medicine blister films are typically not readily recyclable. But the company has created a new formation that allows this packaging to be recycled alongside other plastic items, like water bottles and milk jugs.

Building material

The African country of Nairobi generates an astonishing 480 tons of plastic waste every day. But one young woman is tackling this issue.

She has developed a process to turn plastic waste into bricks that can be used for paving stones, streets, and even houses. The bricks are stronger than concrete material. Her start-up company, Gjenge Makers', currently produces between 500-1000 bricks per day, which equates to recycling around 500 kilograms of plastic waste a day, according to the company.

The bricks have so far been used to pave streets and paths and in building materials for houses and schools. The bricks are also much more affordable for low-income communities in the country.

Artificial Intelligence

The use of AI is not new, but some companies have begun using the science in creative ways. One company doing this is Diwana. The company provides waste-sorting facilities with needed software and hardware. But now the company has begun using AI-based image recognition software in waste sorting. The software more efficiently sorts recyclable material from non-recyclable material, meaning less waste and a lower recycling cost for companies.

Lego vacuum

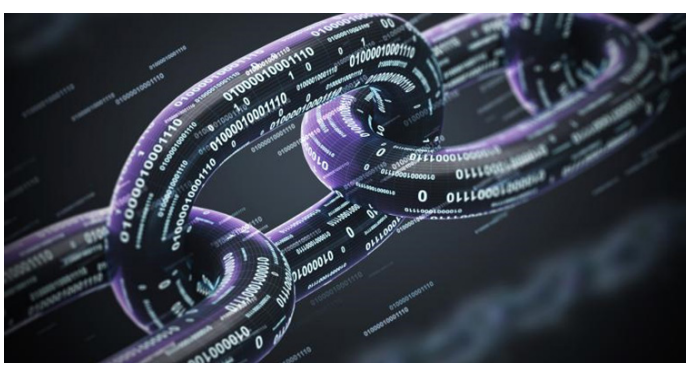
This one may not be revolutionary in our lives, but it's still a fun mention. YouTube host, Matty Benedetto, is known for his Lego-themed inventions. Last year, he created Lego socks to prevent pain when stepping on those plastic bricks. But now he's gaining new attention for his Lego vacuum.

The vacuum sucks up the little plastic bricks from the floor and sorts them by shape. It was created by modifying a traditional Shop-Vac with 3D-printed four canister inserts that filter Lego pieces by size as they're sucked up!
There's no denying that the future of plastic is constantly evolving. We're looking forward to what's next for this versatile and essential material.

Source: forgemass.org

Sabic Launches Blockchain Pilot for Traceability of Certified Circular Feedstock

Tracing the journey of feedstock through the complex petrochemical value chain for plastics is a difficult undertaking. To improve this process and support the delivery of its circular feedstock to customers Sabic has launched this pilot project to demonstrate the feasibility of using a blockchain-based, value-chain IT application. Part of Sabic's TruCircle portfolio and services, the proj-



ect is the first of its kind in the industry to trace the product from feedstock production to converter, going further than previous industry applications of blockchain in end-to-end tracing. The platform offers reduced costs and time and improved data integration for all value chain partners.

Another key benefit of blockchain technology in that the delivery of more sustainable solutions lies in its ability to validate sustainability proof points and organizations' ESG credentials. This is of significant benefit to all members of the value chain, including external parties, as it reduces the administrative efforts associated with the certification process of materials. It is also a more reliable process, due to the reduced risk of human error.

Waleed Al-Shalfan, Vice President Polymers Technology & Innovation at Sabic, says: "At Sabic, we have a deep commitment to innovation and develop technology that can help us to deliver more sustainable solutions to our customers. Our vision to create a circular economy for plastics requires a total transformation of the value chain, and pioneering partnerships with partners both upstream and downstream. Blockchain technology holds exciting potential for the provision of our TruCircle products to customers, and therefore for our commitment to supporting customers in their sustainability ambitions."

All data gathered through blockchain remains immutable while shared across suppliers, customers, and regulators.

Finboot's MARCO software solution acts as a middleware layer and will track the TACOIL produced by Plastic Energy from their recycling process, the delivery of this oil to SA Sabic BIC for conversion into TruCircle circular polymers, and finally the delivery of the polymers to Intraplás for conversion into their packaging solutions. The technology also ensures that all data gathered remains immutable while shared across suppliers, customers, and regulators — providing transparency, auditability, and accountability in a complex industrial ecosystem.

Juan Miguel Pérez Rosas, CEO of Finboot, comments: "We are excited to embark on this pilot as it will significantly contribute to the development and progression of a circular economy, while setting the example for best practice for the global manufacturing sector. Sabic is at the forefront of its industry, always looking to the future and investing in technology and innovation to accelerate its digital transformation that supports the circular economy."

Marisa Alves, chief procurement officer at Intraplás, adds, "As a global provider of packaging solutions, Intraplás has the clear ambition to make sustainable packaging broadly available to the market, without compromising the environment and food safety, something that boosted the participation on this important project with our supplier and long-term partner Sabic. The blockchain technology project will reinforce our objectives even more, as it will help us to improve performance, create additional transparency to the supply chain and promote digital traceability for our certified circular packaging. This is an Intraplás contribution, through more concretely sustainable solutions, to a real circular economy."

Carlos Monreal, Founder and CEO of Plastic Energy comments, "As a company who has developed our own innovative technology, we at Plastic Energy are excited to explore the opportunities that new technologies like blockchain can offer. This pilot has the potential to make a big impact in the value-chain, providing a new level of traceability and transparency for recycled plastics, and demonstrating how advanced recycling can play a valuable role in the circular economy of plastics."

Source: Plastics Today

International News

Busch (UK) awakens the Force of efficient vacuum technology

It all began in 1977 with the original Star Wars film in addition to numerous films and series, giving rise endless merchandise products that have a high demand around the world. Star Wars has become a valuable brand over the years. Fans all over the world spend a lot of money on fan merchandise. This is also the case for the original Stormtrooper helmets. These are still handmade today in Twickenham in England and have a high emotional value for collectors all over the world. Vacuum technology from Busch is used in the production of the plastic helmets. With the help of R5 rotary vane vacuum pumps, the helmets are moulded from plastic.

Sporting Composites Ltd produces the Stormtrooper Hero helmets in the Shepperton Design Studios to this day after the original form of 1976. At that time, the original helmet was made by Andrew Ainsworth for the first Star Wars movie. The helmets are still made by hand and even hand painted. Six employees work at the factory in Twickenham and produce not only the Stormtrooper helmets but also original Star Wars armour and props. The Hero Helmets are made of two-millimeter-thick ABS and are cast in the original moulds of yesteryear. To date, the helmets are not completely symmetrical. This can be attributed to the fact that when the mould was made in the 70s, there were neither CNC machines nor AUTO-CAD. The mould consists of two parts, which, at the time when casting the helmet for the Star Wars movie, did not fit one hundred per cent on each other. But since Andre Ainsworth only had two days until the start of filming, he shaved off one side by hand until the two halves fit together. And so, the asymmetrical original helmet was created, whose characteristic shape has not been changed to this day with the help of modern CAD programs.

When moulding the ABS helmet parts, it is crucial that a clearly defined vacuum is applied to gently pull the material into shape. Since the helmets are only two millimeters thick, vacuum technology is critical to the quality of the moulded parts. Previously, a piston unit provided the vacuum needed to produce the Stormtrooper helmets. This was not only enormously loud and thus a noise nuisance for the employees, but it was also no longer state of the art. When the previous solution failed completely, a reliable replacement was needed quickly. The Shepperton Design Studios therefore contacted the vacuum experts at Busch. They were able to offer a suitable solution in the form of the R5 rotary vane vacuum pump. These vacuum pumps are characterised above all by high pumping speeds even in low pressure ranges and thus fast evacuation times. The heavy-duty rotary vane design ensures reliable performance and long pump life. R5 RA vacuum pumps are designed for continuous operation and are resistant to ultimate pressure.

They can be operated continuously at ultimate pressure without overheating. This makes them ideally suited for use in plastic moulding.

Since the loss of helmet production had to be prevented, Busch provided a loaner pump until the vacuum pump that was actually ordered could be delivered. The new Busch rotary vane vacuum pump used is not only a lot quieter, but also works a lot more efficiently. Shepperton Design Studios is pleased that the production of the Stormtrooper helmets is still secured thanks to the new vacuum solution, meaning that Star Wars fans all over the world can continue to look forward to their faithful collector's items in the future.

Source: Interplas Insights

Smart, sustainable machinery: Davis-Standard at K 2022

Technology from the Davis-Standard family of companies, including Davis-Standard, Maillefer, Brampton Engineering, Deacro and Thermoforming Systems LLC (TSL), will be shown with an emphasis on customer profitability and performance.

Visitors will experience continued developments in extrusion and converting technology focused on a circular economy, energy efficiency, reduced power consumption and minimised waste, as well as a live demonstration of smart factory connectivity.

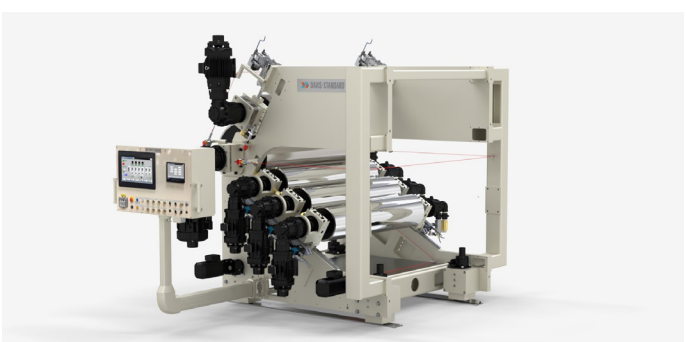
Giovanni Spitale, Davis-Standard President and CEO, said: "Our exhibit will present a range of technology from Davis-Standard and our heritage brands that reflects marketplace demand and our strong commitment to sustainable manufacturing practices. We also have an intense focus on the lifecycle value of our machinery as reflected in our aftermarket services."

Davis-Standard is eager to introduce enhancements and developments to its expansive machinery portfolio. All portfolio brands offer end-to-end service, parts, and line upgrades to help customers maximise productivity. The company has made progress with smart factory solutions and connected machinery developments. The new DS Activ-Check platform, for example, can be installed on a continuously expanding number of company products, delivering a powerful suite of analytical tools, data storage options, and equipment technology algorithms. A live demonstration will be given during the show.

The SHO Extruder (3.5-inch, 90mm) is equipped to save space while offering outputs of at least 20 per cent versus existing groove feed models, the SHO is engineered with a new gearbox, an optimied feed section, and high-performance, energy-efficient DSB barrier screw, which according to a press release, is 'especially beneficial for high-viscosity HDPE applications such as pipe extrusion'.

Maillefer's new MXD series high-performance extruders will also be on display in 45mm and 80mm sizes.

In elastomer processing, Davis-Standard will promote the Model 4000A crosshead, which allows for faster start-up times and little scrap. The Model 4000A incorporates an automatic, servo-driven concentricity and wall thickness adjustment system. This new, proprietary and patent pending, system automatically adjusts core tube/tip assembly to minimise eccentricity, maximise concentricity, and reduce downtime.



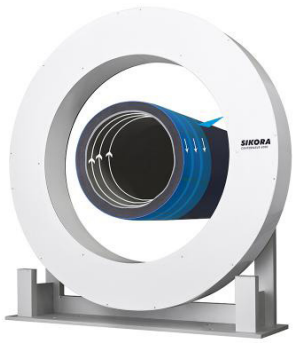
The Extrusion Die 510A – Engineered for packaging, cup stock, board and paper, foil, and film applications, – offers simplified operation, improved safety and reduced waste, whilst the Extrusion Laminator – a laboratory-style linear three-roll laminator with a 900mm chill roll – is engineered for a high cooling capacity at high speed operation, and with a hydraulic linear nip pressure system to support a range of flexible packaging substrates.

Other features upon the Davis-Standard booth will include the XP Express AGT (the latest addition to Davis-Standard's roll stand portfolio), which will provide greater automation and process control for sheet extrusion applications, and its Feedscrew Display – a single-screw extrusion plastication model showing the transformation of raw plastic material into melt as it is pushed to the front of the screw through a rotational action.

Davis-Standard will exhibit form Hall 16, Booth A43.
Source: Interplas Insights

Quality Control System Designed Specifically for Large-Pipe Extrusion

German developer of plastic pipe quality control systems Sikora has introduced a new model in its Centerwave line. The Centerwave 6000/1200 measures the wall thickness, inner profile and diameter as well as ovality and is designed specifically to meet the requirements of large pipe manufacturers.



The compact system integrates easily with production processes and is particularly suitable for extrusion lines producing pipes in diameters between 1,000 and 1,200 mm (39.4 and 48 in.), according to Sikora. The Centerwave 6000/1200 supports immediate in-line centering and quality control. For the US market, the new model is compatible with the 48-in. IPS and DIPS standard.

All models in the Centerwave 6000 series feature a measuring principle based on millimeter wave technology. Operation is intuitive: The system is engaged with the push of a button, and the operator immediately receives continuous, precise measured values without having to preset product parameters or perform calibration.

The Centerwave 6000 is equipped with a transceiver that rotates permanently. Thanks to the speed of rotation and line speed that runs in parallel, helix-structured measurement is performed in the direction of production, ensuring 100% coverage. Wall thickness, diameter, and the inner profile are recorded without gaps over the pipe's entire circumference and length. Minimum and maximum values are reliably determined. With each rotation, the measuring spot overlaps; as a result, the inner contour of the pipe is precisely mapped. Sagging and other defects are immediately detected, enabling corrections at an early stage of the process.

The Centerwave 6000 series also offers automatic control of the extrusion line taking into account standard deviations. This avoids over-consumption and facilitates automation in existing plants. Amortization is significantly less than one year, according to Sikora.

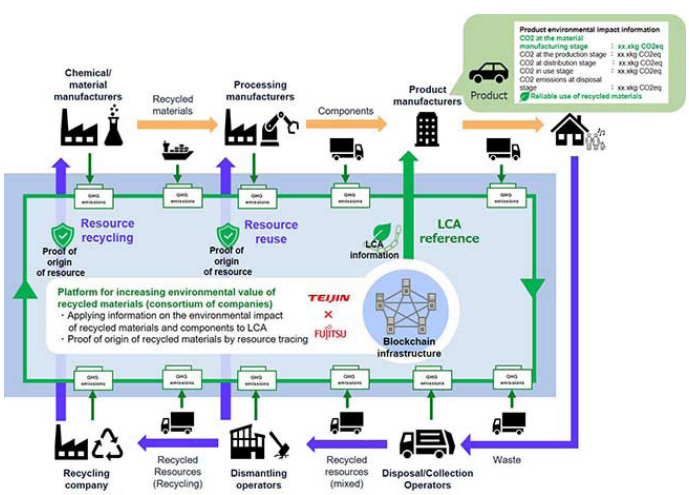
Source: Plastics Today

Teijin and Fujitsu Use Blockchain to Improve Plastics Recycling

Tokyo-based Teijin and Fujitsu have jointly developed a blockchain-based platform that supports the use of recycled plastics, promotes environmentally conscious product design, and enables manufacturers to quantify their operations' environmental impact.

The commercial platform uses Teijin's Life Cycle Assessment (LCA) Calculation Method to measure the impact of manufacturing processes throughout the value chain. Powered by Fujitsu's blockchain technology, the platform can collect and track environmental-impact data.

The goal is to promote sustainable use of recycled plastics and other materials and to provide manufacturers with reliable information on the origin of recycled resources as well as data on greenhouse-gas emissions. Fujitsu's blockchain technology ensures transparency and traceability, making it nearly impossible to falsify the data.



The blockchain-based platform will provide manufacturers with verifiable environmental-impact data.

Teijin's LCA methodology has been certified in accordance with ISO 14040 and ISO 14044. The analysis can identify carbon hot spots in manufacturing and point to

options for emissions reduction. A leading manufacturer of carbon-fiber products, Teijin also promotes initiatives related to fiber-reinforced plastics (FRP) recycling.

The new blockchain platform will enable environmentally friendly design and use of recycled materials by providing manufacturers who design products from recycled plastics with accurate environmental-impact data, including proof of origin of recycled materials.

Manufacturers "mainly [in the] automotive and aerospace industries" will be the first to use the platform, a Teijin spokesperson told PlasticsToday. "FRP using our high-performance fibers, such as carbon and aramid fibers," will initially be the core of the platform.

FRPs are used in transportation products such as aircraft and electric vehicles as well as in the construction, infrastructure, energy, and marine markets.

Manufacturers across industries face the ongoing challenge of measuring and reducing their environmental impact and boosting the environmental value of recycled plastics. Consequently, a growing number are using LCAs for insight into their carbon footprint, disclosing evaluation results, and applying for labels or certifications related to their products' environmental-impact reductions.

However, transparency and traceability of recycled materials remain a challenge. The need for reliable information management will grow along with the trend toward verifying use of recycled plastics and other resources.

Teijin and Fujitsu plan to start full-scale trials with the blockchain platform this year. Based on trial results, the companies will consider expanding the scope of the project to include additional materials. The partners hope to develop the platform globally.

Source: Plastics Today

BASF, Thor Fight Fire on Flammability Front

BASF and Thor GmbH are combining their expertise in non-halogenated flame-retardant additives to provide customers with a comprehensive solution that will enhance the sustainability and performance of specific plastic compounds while meeting stringent fire-safety requirements.

Flame retardancy is an essential element for plastic components or composites that are commonly used in transportation, construction, household, and industrial applications, as accidental heat and flame exposure can lead to serious damage and endanger lives. The growing demand from the global construction and automotive industry combined with stricter fire-safety standards will significantly influence demand for sustainable flame-retardant chemicals.

Experts at Thor and plastic-additives specialists at BASF have collaborated for many years in developing sophisticated solutions to meet the demanding flame-retardant specifications, with a focus on alternatives to halogen-containing additives. Both parties are active members of the Phosphorus, Inorganic and Nitrogen Flame Retardants Association (PINFA) and work collaboratively to deliver sustainable polymeric systems that withstand ignition and fire propagation during their service life.

The combined expertise in flame-retardant additives provides customers and end-users with information highlighting the synergistic benefits of BASF's halogen-free flame-retardant Flamestab with Thor's phosphonates Aflammit technologies for polyolefins, a challenging flame-resistance application.

"A thorough and multidimensional assessment of an additive solution is essential to shorten the time to market. The closer our suggested formulations are to the requirements of the end users, the shorter the development time and costs for our customers," said Armin Eckert, BU-Head of Performance Chemicals, Thor. "At Thor, we work continuously on improving our flame retardants and their performance in the desired plastics compounds. Depending on the market needs, a huge variety of fire-safety standards are available for testing our own developed flame-retardant formulations. As a service, our project partners, such as BASF, provide us with newly formulated plastic films, molded or extruded specimens for evaluation of performance," said Eckert.

"Providing superior fire safety to a plastic part while maintaining other characteristics such as mechanical performance and light stability is a real challenge," explained Dr. Achim Sties, Senior Vice President, Performance Chemicals Europe, BASF. "Technical experts at BASF are hard at work to provide solutions to meet our customers' requirements and leverage our strong experience and network to respond with cost-effective and sustainable technological solutions. Together with Thor,

we focus on technical combinations that help shorten the journey for a formulator or a converter to reach their flame-retardancy target and progress efficiently toward certification in a complex norm and testing environment," said Sties.

Source: Plastics Today

onTop Cosmetics is First Chinese Beauty Brand to Launch Sustainable Cosmetic Packaging Made with Eastman Cristal™ Renew copolyester

onTop cosmetics has launched its Renewal Oil Cream, the first of its four core facial cream products to feature packaging made from Eastman Cristal™ Renew copolyester with 50% certified recycled content.* onTop cosmetics is the first Chinese beauty brand to use Cristal Renew, a sustainable resin powered by Eastman's molecular recycling technologies. This industry-leading skin care packaging is the result of the close collaboration between onTop's value chain partners — WWP Beauty and molecular recycling pioneer Eastman.

"onTop strives for light packaging, which is part of the attitude toward sustainability," said Emma Ni, onTop CEO. "We actively seek out light, beautiful and eco-friendly solutions for formulas and packaging. Based on this mission, we chose to make sustainable packaging out of Eastman Cristal Renew for our newly launched cream product. Our efforts, however small, are aimed at reducing consumption and environmental impact and finally making the earth 'lighter.'"

onTop worked with WWP Beauty to develop the primary packaging for version 2.0 of its Renewal Oil Cream, recognized by Mintel as an "Innovative Product" in January 2022. Mintel cites the product's oil-cream texture that enables the addition of lipids such as ceramide 2, phytosterols and fatty acids to nourish skin. The formulation also utilizes Topnatrol, a patented emulsifying technology based on natural active ingredients rather than synthetic emulsifiers.

For the onTop Renewal Oil Cream, WWP Beauty saw an opportunity to design packaging as innovative as the product inside. The company was looking for sustainable packaging that would take its skin care product to the next level. Eastman's Cristal Renew, made with molecular recycling technology that uses plastic waste as feedstock instead of fossil resources, fit the bill. These technologies break down plastic waste to its fundamental building blocks and use them to create new, high-performance materials. As a result, Cristal Renew offers brands the same level of performance and design freedom they have come to expect from Eastman's resins for luxury cosmetic packaging. It also delivers significant environmental benefits, including landfill diversion and reduced greenhouse gas emissions.

For WWP Beauty, the collaboration with Eastman and onTop provides a platform to demonstrate how the brand can help its customers harness the latest material innovations to elevate the sustainability of its products. "Working with customers to create a space where we can bring sustainable, innovative beauty products to customers on a global scale is at the heart of what we do," said WWP CEO Jennifer Adams. "This collaboration with onTop and Eastman is a landmark step for WWP Beauty in our journey to advance sustainability in the beauty industry." The recycled content in Eastman Renew products carries International Sustainability & Carbon Certification (ISCC Plus), providing brands with the transparency and trustworthiness that come from independent, third-party verification of recycled-content claims.

"We are excited to be part of this product launch with onTop and WWP Beauty and thrilled to see how Cristal Renew is enhancing the sustainability of such an innovative product," said Tara Cary, cosmetics and personal care packaging market manager for Eastman. "In introducing its Renewal Oil Cream to the market, onTop is leading the industry in sustainability for Chinese consumers."

*The recycled content is achieved by allocating the recycled waste plastic to Cristal Renew using a mass balance process certified by ISCC.

Source: Packaging 360

Biobased PA 6 enters pre-commercial production phase

Long-time collaborators Aquafil, based in Italy and Californian biotechnology company Genomatica, or 'Geno', have successfully completed the first demonstration scale production runs for plant-based PA 6.

The companies first joined forces in January 2020 to produce the world's first ton of biobased nylon-6 precursor at pilot scale before entering into an agreement in November of that same year to build a demonstration scale facility at Aquafil's Slovenian site to produce renewably-sourced PA 6. And in May 2022, Aquafil announced a further partnership with Geno to build a demo plant at this AquafilSLO (Ljubljana) facility to test the technical feasibility of producing bio-caprolactam, the most important intermediate for producing PA 6, on a pre-industrial scale, with the start-up scheduled for H1 2022.

The world needs every possible approach put into action to make supply chains sustainable, and making bio-based nylon an essential piece of that," said Giulio Bonazzi, Aquafil CEO.

The companies say they have now produced the first several tons of this plant-based caprolactam in Slovenia, converted this to PA 6 polymer, and are now in the process of transforming it for evaluation in nylon applications such as yarns for textile and carpet and engineering plastics.

The material will go to leading global brands and their value chain partners who are eager to explore and develop renewable products, create showcase goods and test feedback with customers.

"Now, more than ever, global brands are taking action to incorporate sustainable materials into their products," said Christophe Schilling, Geno CEO. "We're working to build purposeful, traceable and transparent supply chains, in this case for nylon 6, with the goal to provide more sustainable products that consumers demand and material solutions that can help brands achieve their ESG goals."Genomatica has a proven track record of successfully scaling technology from idea to commercialisation stage for multiple renewably-made products. Biobased PA 6 is Geno's third major product line on be headed down that path. The company's strategy has been to enter into partnerships with a range of brands to advance its goal of transitioning the market to more sustainable alternatives. Recent milestones include: a collaboration with lululemon to bring plant-based materials into lululemon's products, a production milestone with partner Covestro for plant-based HMD used in sustainable coatings, and a partnership with Asahi Kasei and a newly formed venture with Unilever to commercialise and scale plant-based alternatives to feedstocks like palm oil or fossil fuels, to make key ingredients used in everyday cleaning and personal care products.

Source: sustainableplastics.com

Top Three Trends of FMCG and Consumer Durables Packaging in India

The packaging industry is a colossal income grosser and an even bigger necessity at a global scale as they serve several industries. Reliable statistics indicate the global packaging industry will see unprecedented demand of $1.05 trillion by 2024, growing from a total value of $917 billion in 2019, driven by consumer and industry trends. With burgeoning online purchases, packaging to protect products during transportation and through distribution, sales, and storage is a continual demand. Sturdy packaging not only protects products from breakage but, if attractive, may also grab consumer attention.

Some common kinds of product packaging include cartons, boxes, bottles, cans, bags, wrappers, envelopes, etc.

There are also some specialised forms such as pharma, plastics, and anti-corrosive and flexible packaging that are specific to certain industry demands and goods.

Indian packaging industry

As a high-growth sector, the packaging industry is expanding at a 22-25 per cent rate annually. This is also because we're now a preferred hub, costing about 40 per cent cheaper than several parts of Europe. Growing annually at 51 per cent, our e-commerce revenue is nearly the highest in the world and also drives the growing demand for corrugated boxes and cartons. This rigid packaging category makes up 80 per cent of the total packaging market.

In F&B packaging, there has been a movement toward sustainability due to growing awareness and subsequent demand. Tamper-proof packaging is gaining ground while, for beverages, rigid plastics and glass make up 70 per cent of the total market.

Top 3 trends

Since awareness is growing around climate change and the fact that consumer goods' packaging is chiefly responsible for pollution, sustainable packaging is easily the primary trend to influence the future of this industry. Packaging that reduces carbon footprint through the use of eco-friendly material, a green supply chain, and reusable, recyclable, or compostable will thrive. Other than during production, even the material's lifecycle as reusable or compostable will reduce wastage and pollution.

Personalised packaging that leverages individualism will be another key clutter-breaking trend. With the help of design and technology, personalised packaging will become a tool of the company's marketing efforts, who'll view packaging as an essential part of their business model, second only to the product. Be it emotional engaging packaging that tells consumers a story or vintage designs, such packages are distinct because of their individuality. Some brands also allow client names or photographs to be added to their packages, for an extra layer of customisation – these ideas will drive growth.

Most importantly, practicality in packaging will also play a crucial role. If the product packages are convenient to hold and carry, they'll be loved by companies and consumers alike. Therefore, even established brands are investing in portable packaging such as the ones tailored for cyclists to carry easily on the handlebar of cycles. As such innovative packaging will be a hit going forward.

Source: Packaging 360

Govt's Plastic Straw Ban to Curb Pollution Leaves Indian Consumers Thirsty

Indian Prime Minister Narendra Modi has a reputation for imposing policies suddenly on an unprepared nation, but when he pledged in 2019 to eliminate single-use plastics, food and beverage makers had years to prepare. When the first tranche of items was banned this month, they weren't ready.

Plastic straws are attached to many of the ubiquitous Tetra Paks of juices and other beverages sold in the country. With 19 single-use plastic items banned from July 1, including the straws, companies including Dabur India Ltd. and Parle Agro Pvt., one of the nation's largest beverage makers, have been racing to replace them with imported paper versions. Vendors say the change has created a shortage and some stocks of soft drinks boxes have run out.

Modi's 2019 pledge to eliminate single-use plastics by the end of 2022 set the most ambitious goal in Asia-Pacific, according to Ilhan Savut, analyst at BloombergNEF. The government has repeatedly said that industry has had time to prepare for the change. But the challenge for industry to meet the deadline has been complicated by the lack of domestic alternatives and the pandemic, which snarled supply chains, increasing competition among global buyers. Also Read: List of single-use plastics items now banned in India

"The industry is being forced to import at a time when costs are soaring and there are huge disruptions in shipping globally," said Schauna Chauhan, chief executive officer of Parle Agro in an email.

Modi's goal is part of a growing global attempt to eliminate one of the biggest environmental scourges on the planet. Of the 380 million tons of plastic produced each year, about half is for single-use items like packaging, cutlery and straws. At least 14 million tons of plastic gets swept into the oceans each year. But even rich nations are struggling to eliminate the problem. US consumers throw away at least 170 million plastic straws each day by one estimate, despite several cities banning or restricting their use. In India, around 88,000 companies produce single-use plastic products, employing about 1 million people, according to Kishore P. Sampat, president of the All India Plastics Manufacturers Association. Plastic straws have become a prime target for many governments because for most people they are unnecessary. Even so, in India, as in many other countries, they have become ubiquitous, and even part of the packaging for a drink, such as with small beverage boxes that require a straw to puncture the container. As a result, many companies are seeking alternatives rather than redesigning the boxes. Dabur switched to imported paper straws and began attaching them to its low-cost Real juice packs in June, according to Shahrukh Khan, executive director of operations.

Beverage manufacturers in India use around 6 billion straws annually and "the domestic capacity for paper straws is zero," said Praveen Aggarwal, CEO of Action Alliance for Recycling Beverage Cartons, an association of leading beverage makers. At present, Indian manufacturers of biodegradable plastic only have capacity to meet up to 8 per cent of demand and beverage companies won't be able to import more than 20 per cent of the amount they need, Aggarwal said.

For the few Indian startups that do make alternatives to plastic straws, business is booming. Evlogia Eco Care Pvt. makes straws from coconut palm leaves, mostly for export or high-end resorts and restaurants because they cost more than five times as much as a plastic straw. But since the ban, domestic interest has soared with customers increasing the size of orders as much as fivefold and new enquiries pouring in. Demand "is 10 times our production capacity," said co-founder Manigandan, who uses one name. "This is just from our existing customers. We don't do any marketing."

Manigandan is trying to increase automation to boost output, but such plant-based alternatives to plastic are still only a tiny proportion of total sales. “While some state regulators have permitted use of biodegradable plastic straws and paper straws, the infrastructure for producing these straws at scale is non-existent in India today,” said Dabur’s Khan.

The switch to imported paper straws could add between 0.25 rupees and 1.25 rupees (2 cents) to the cost of each unit, according to a report by Kotak Institutional Equities. That’s a big difference when a 150 ml pack of Parle Agro’s popular mango-based Frooti drink costs about 10 rupees. Dabur and Parle Agro didn’t say whether they would pass on the cost to consumers. The competition to import paper straws has left India’s largest dairy cooperative, Gujarat Cooperative Milk Marketing Federation, short of supplies, according to Managing Director RS Sodhi.

Meanwhile, traders and retailers who don’t comply or are still clearing old stock run the risk of being penalized, said Praveen Khandelwal, general secretary of the Confederation of All India Traders. Special enforcement squads have been set up to target urban “hotspots” of single-use plastics and will conduct surprise inspections and impose heavy fines on defaulters, the environment ministry said. Under the 1986 Environment Protection Act, offenders could face a penalty of up to 100,000 rupees and/or a jail term.

“Sustainable options for packaging, including straws are way more expensive compared to their plastic versions,” said Urvika Kanoi, who runs two cafes in Kolkata and Mumbai. “If we try and increase prices, or add a packaging charge, the consumer gets very angry. The government makes these rules, but they do not give us the tools to get those rules in place.”

Source: Packaging 360

Data shows India-China trade deficit widening, Indian exports falling for 1st time in yrs

There’s some bad news about the trade imbalance between India and China: it looks set to get worse this year. Not only is the trade deficit expected to enlarge yet again, India’s exports to China could also fall for the first time in years if data from the first two months of this financial year is any indication. Commerce ministry data shows that in April and May, India’s exports to China declined by 31 per cent, while imports grew by 12.75 per cent.

Going by the data on the ministry’s website, in the past seven years, there has never been a contraction in India’s exports to China — barring 2019-20, when the pandemic upended global trade.

“One of the major reasons for the decline in exports is the fall in global commodity prices due to concerns of a recession in the global economy,” a senior government official told ThePrint.

In 2021-22, the trade deficit between India and China rose to $72.9 billion, up from $44 billion in the previous year. Overall, India’s merchandise trade deficit in the same year was $192.24 billion, an increase of 87 per cent from the previous year. A trade deficit occurs when a country’s imports of goods and services exceed its exports in a given time period. In the current year, until May, the deficit with China stands at $12.32 billion. Overall, the trade between the two countries grew a mere 2 per cent in April and May, when compared to the previous year. Territory-wise data for June has not yet been uploaded by the Ministry of Commerce.

Speaking to ThePrint, Biswajit Dhar, professor, Centre for Economic Studies and Planning, Jawaharlal Nehru University, said the headwinds that China is facing currently with regard to its domestic lockdowns to prevent the spread of Covid is now reflecting in the trade numbers. Dhar, however, added that he expects the trade deficit with China is only going to increase “because India’s exports are not expanding”.

‘India needs export-competitive industries’

Some of the top commodities that India exports to China include petroleum products, iron ore, marine products, organic chemicals, non-basmati rice, spices, castor oil, and copper products.

India's imports from China, on the other hand, have largely been driven by capital and intermediate goods, said the government official quoted above. These include electronic components, computer hardware, telecom equipment, industrial machinery, and consumer electronics.

Due to the slump in China's manufacturing in the wake of Covid lockdowns, iron ore and copper exports have declined sharply in value. Meat and cotton exports from India have also declined, commerce ministry data shows.

India, meanwhile, has been dependent on China for a lot of chemicals that are used in many industrial products. The government official said that India also had a "major dependence" on China for pharmaceutical products that are used as raw materials for goods that are eventually exported.

Dhar said that he did not expect the imbalance to rectify anytime soon.

"Even after the Chinese economy opens up, I don't think the trend will change because going by the 2021 data, China was not affected as much with Covid. If you look at all the macro indicators, and then if you extrapolate those figures on the trade data, then you will find that the trade deficit with China has reached record levels," he added.

Dhar said that the only way India can reduce its trade deficit with China is by setting up export-competitive industries. "It's not about Make in India, but Making in India to be globally competitive. And this only comes from scale. I don't think India has internalised this yet," he said.

According to a State Bank of India (SBI) research report from February, India can add up to $20 billion to its Gross Domestic Product (GDP) if it can reduce its dependence on imports from China by 50 per cent by leveraging production-linked incentive schemes. The report further said that China's share in India's total merchandise imports has steadily increased to 16.5 per cent 2021-22.

Changing partners

In the past decade, barring one or two years, China has been India's biggest trading partner. In the last financial year, this distinction went to the United States, much to China's discomfiture.

In 2021-22, bilateral trade between the US and India stood at $119.42 billion, compared to $80.51 billion in the previous year, according to the commerce ministry data. Bilateral trade with China stood at $115.42 billion in the same period.

This comes on the back of Covid slowing down the Chinese economy considerably and a favourable geo-political environment for India after the economic face-offs or 'trade war' between the US and China. Experts also believe that supply disruptions due to lockdowns in China made many countries realise the need to diversify their import sources.

Source: The Print

Lack of awareness of credit schemes biggest challenge in solving credit issue for MSMEs, says expert

The biggest challenge in bridging the credit gap in the MSME sector or enabling credit access to micro, small and medium enterprises is their lack of awareness about various credit schemes by the government, Mukesh Mohan Gupta, President at MSME association Chamber of Indian Micro, Small & Medium Enterprises (CIMSME) told FE Aspire.

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"There are lot of schemes announced by the Reserve Bank of India (RBI), banks, SIDBI, MSME Ministry, others for public procurement, credit, etc., but the biggest problem is around lack of awareness," he said on the sidelines of the MSME Business Conclave organised by FE Aspire in June. According to the UK Sinha Committee in June 2019, the overall credit gap in the MSME sector stood at Rs 20-25 lakh crore.

The other challenge has been around the ease of access to different credit schemes by the government. To promote digital access to the schemes on a common platform, the government had launched the JanSamarth portal in June this year to provide access to 13 different credit-linked schemes for MSMEs, agriculture, education, and other segments. As a one-stop digital portal, JanSamarth allows for online application of loans and digital approval as well.

"MSMEs, particularly the micro enterprises, were not able to even approach the branch manager earlier. They were not able to even submit their loan applications. With JanSamarth portal, MSMEs can check their eligibility for a loan and track the status of their loan application as well," said Gupta.

Delayed payments from government and private buyers is another challenge MSMEs face leading to working capital complications and impacting business competitiveness. According to a report released by the non-profit organisation for promoting entrepreneurship, Global Alliance for Mass Entrepreneurship (GAME) and analytics company Dun & Bradstreet (D&B), the issue of delayed payments is estimated to have Rs 10.7 lakh crore, amounting to 5.9 per cent of India's gross value added (GVA), locked up annually.

Gupta said buyers should be educated on prompt payment so that small businesses can become medium enterprises and then evolve into large corporates.

"There are provisions in the Micro, Small and Medium Enterprises Development Act, 2006 and under the Insolvency and Bankruptcy Code, 2016 that aid MSMEs with timely payments," said Gupta. He further called for MSMEs to register themselves on the Udyam Portal and get their Goods and Services Tax Identification Number (GSTIN) printed on their invoices along with their Udyam registration numbers to charge interest on payments made after 45 days under the law.

Source: FE

Maersk creates a fast and reliable India-Bangladesh cross-border logistics solution using inland waterways

Maersk successfully completed the first India-Bangladesh cross-border logistics of containerised cargo using the inland waterways of the Indo-Bangladesh Protocol Route for Coca-Cola Bangladesh Beverages. By transporting 50 containers (TEUs or Twenty Feet Equivalent Units) from Kolkata in India to a river port near Dhaka in Bangladesh on a barge on the National Waterways 1 on the India side, Maersk has created a new opportunity for customers to use the faster, more reliable inland waterways solution that connects the two countries.

The cargo movement on inland waterways or rivers is much more reliable, especially in monsoons, when the turbulent weather can cause delays while transporting goods over the ocean. Moreover, with the ocean network running under capacity pressure, the alternative inland waterways route that is quicker and more reliable has received a warm welcome from shippers. This solution also addresses the bottleneck at the land border between the two countries.

The Governments of both countries have encouraged trade on the Indo-Bangladesh Protocol Route for a long time and recently strengthened the customs processes further to enhance the ease of doing business.

The Indo-Bangladesh Protocol Route is not only a benefit for trade between India and Bangladesh but also extends the connection to landlocked Bhutan. With the option of providing an end-to-end integrated logistics solution, Maersk's customers can move their cargo from origin to destination using first-mile and last-mile services, including landside transportation by road or rail, customs clearance, warehousing and distribution, supply chain management etc.

Source: Maersk.com

Panattoni enters India; to invest $200 mn on building 4 logistics parks

US-based Panattoni has forayed into India and will invest USD 200 million to develop four industrial and logistics parks as it seeks to tap the growing demand for warehousing spaces across major cities. Panattoni, a global leader in industrial & logistics real estate development, has debuted in the Asian market with its entry in India. Indian venture, Panattoni India Development Pvt Ltd, is headquartered in Bengaluru.

In an interview with PTI, Sandeep Chanda, Managing Director India, Panattoni, sounded bullish on the long-term growth of the industrial and logistics segment of Indian real estate as demand for quality spaces rises from third-party logistic, e-commerce and manufacturing sectors.

The company is holding discussions with land owners to purchase around 250 acres of land in Delhi-NCR, Mumbai, Chennai, Hyderabad, Bengaluru and Pune to develop four projects in the first phase of the India venture.
'We will be investing USD 200 million (around Rs 1,597 crore) for the development of initial four industrial and logistics parks comprising 6.5-7 lakh leasable area," he told PTI.

The proposed investments include land, construction and other costs. Chanda said the company would also rope in global institutional investors to develop these four projects. The fund will be raised at the special purpose vehicle (SPV) level to be created separately for the development of each project.

Asked about the minimum size of land required for the development of logistics parks, he said any size between 50 acres and 100 acres would be a sweet spot. However, the company is not averse to developing small 25 acres parks.

Image: chan

Chanda, formerly head of strategy & acquisitions at Embassy Industrial Parks, said 75-80 per cent area in the projects will be earmarked for warehouses and the rest for the establishment of industries. The company will also follow its global strategy to exit from each project after development and complete the lease out of spaces to tenants.

Robert Dobrzycki, CEO & Co-owner, Panattoni Europe and India, highlighted that the global firm has established itself as a major industrial and logistics real estate developer in North America and Europe.

"I see no reason why the institutionalisation and dramatic growth of the industrial and logistics markets in North America and Europe cannot be repeated in Panattoni's Indian bridgehead and beyond into other Asian countries and on a faster, greater scale in the years ahead," said Robert.

The company will facilitate investors' access to these assets and support the sustainable growth of India's economy and employment. Panatonni feels that India's aim of becoming a global manufacturing hub, supported by global firms' growing interest in diversifying their dependence on China and its supply chains, is expected to be a key demand driver. The fast adoption of e-commerce in India is also fuelling demand for warehouses.
"In the last 9-10 years, since 2013, we have been developing on an average 35 million square feet every year globally. India's total leasing stood at 27-28 million square feet last year. So that's the scale at which we operate," Chanda said.

Panattoni will bring Group's latest design and construction technology to India. "Our access to global institutional capital and an extensive international occupier network will supplement the strong core demand for modern sustainable industrial and logistics real estate we are seeing from domestic Indian companies," Chanda said.

Greater supply chain efficiency, rapid e-commerce growth, and consolidation among third-party logistics providers are all fundamental market drivers that India increasingly shares with its counterparts in the U.S. and Europe, he added.

Source: Business Standard

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
- Special price for Dun & Bradstreet's D-U-N-S® REGISTERED™ SOLUTION (Plus Variant)
- Basic Website Development Assistance *

*Nominal Charges Applicable

New Members

The Plastics Export Promotion Council added the following companies/firms as new members during June 2022. We would like to welcome them aboard!

Sr.No	Name Of The Company	Address	City	Pin	State	Director Name	Email
1	A S International Export	Jl No026 Khatian 30/1, Mouja Gokhuri,Plot 176,Majnaberia.Gokhuri,Purba Medinpur,	Purba Medinipur	721633	West Bengal	Arif Mohammad Khan	tinku721633@gmail.com
2	Aggarwal Corrugators India Private Limited	Khata No- 1/1, Khasra No- 936/1/1/1, 5-5, Jamabandi Year 2017-18, Near Adani Willmar Godowns, Gehri Baghi Road, Gurusar Sehne Wala,	Bathinda	151001	Punjab	Vijay Kumar	aggarwalcorrugators@yahoo.com
3	Alpha Packaging Private Limited	401 Accron Building Joggers Park ,Ghod Dod Road,	Surat	395007	Gujarat	Nilaksh Shyam Agarwal	radhagovind@alphapackaging.co
4	Annex Polymers	Survey No. 3/2 And 3/3, General Industrial Plot No. 5, Rajpar	Morbi	363641	Gujarat	Vrajkumar Aghara	annexpolymers-morbi@gmail.com
5	Armstrong Machinery Llp	Behind Gujarat Vidyapith, Sixth Floor, 601, Sarap, Navjivan Press Road, Ashram Road	Ahmedabad	380014	Gujarat	Vyom Sanjay Shah	accounts@armstrongex.com
6	Ascend Performance Materials India Private Limited	10/17 Anandham Colony, South Canal Bank Road, Mandavelli , Chennai	Chennai	600028	Tamil Nadu	Shailesh Shashikant Kupte	sgupte@ascend-materials.com
7	Bbw Brushes Private Limited	Kssidc Shed C-10,C-11,Veerasandra,Industrial Estate,2nd Stage,Huskur,Main Road Bangalore,Karnataka,Bengaluru Rural,560099	Bangalore	560099	Karnataka	Vincent Palathinkal	md@bbwbrushes.com
8	Endurafab Private Limited	77, Ashish Nagar, Kanadia Road Indore;	Indore	452016	Madhya Pradesh	Meghdeep Agrawal	commercial@endurafab.org
9	Goldcoin Foam Private Limited	Survey No.79, National Highway, No.8-B, Village Shapar (Veraval) Dist- Rajkot	Rajkot	360024	Gujarat	Ashvinkumar Goganbhai Pansuria	mahesh@goldcoinfoam.com
10	Greenlam South Limited	Makum Road , Assam , Tinsukia ,	Assam	786125	Assam	Parul Mittal	vinod.kumar@greenlam.com
11	Harisons Polyfil	'Giruraj' 162, Baba Bhai Ni Chal, Rupani,	Bhavnagar	364001	Gujarat	Deep N Hariyani	dhariyani8@gmail.com
12	Idis India	24, Krishna Estate, Nr Uma Weigh Bridge, Bakrol Bujrang, Dhamatwad Road	Bakrol	382430	Gujarat	Nehaben Maheshbhai Makwana	paresh@idisindia.com
13	Jay Corporation	Plot No 285 A, Chitra Gidc, Near Das Pendawala, Chitra Gidc	Bhavnagar	364004	Gujarat	Jay Kalola	jaycorporation199@gmail.com
14	Ketone Laminates Llp	Survey No.110, Bhadiyad,Bhadiyad ,	Morbi	363642	Gujarat	Yash Aghara	ketonelaminates@gmail.com
15	Konita Industrie S Private Limited	First Floor, Plot No.403, Sector 7b,	Faridabad,	121006	Haryana	Rahul	accountsho@konita.in

16	Manidhar Polymers	Sr.No.152p1 Plot No.03, Opp.Muktidham At. Veraval Shapar ,	Rajkot	360024	Gujarat	Kapadiya Vallbhabhai Meghjibhai	manidharpolymers@gmail.com
17	Nexogen India	Ground Floor, Shed No. 91 & 92, Aatmiya Brookfieldz Industrial Park,	Uniya Kajapur	391240	Gujarat	Snehalkumar Pankajkumar Patel	nexogenindia@gmail.com
18	Origin Mouldings Private Limited	64 48 39 1st Main Sarvabhoumanagar , Bilekahalli Bannerghatta Road, Bengaluru Urban, Karnataka	Bangalore	560076	Karnataka	Mallikarjuna Sampangiramaiah	originmouldings@gmail.com
19	Packza Fabcon	Lodhika Kumar Taluka Shala, Plot No.9, Survey No. 234/11 , Surbhi Industrial Zone A, At. Khambha, Ta. Lodhika,	Rajkot	360035	Gujarat	Siddharthbhai Rameshbhai Andani	info@packzafabcon.com
20	Pacway Poly Plast	D No.3-35/1, Jalpally Village , Saroornagar Mandal , Rangareddy ,	Hyderabad	500035	Telengana	Pranay Gupta	info@
21	Progressive Roto Plast	Plot No-D/40-7,Hojiwala Ind. Estate, Rd No-18, Sachin Udhyog Sah Mandli	Surat	394230	Gujarat	Padaliya Samir Ashokbhai	samir2014padaliya@gmail.com
22	Rustx Usa Private Limited	Hi Tech International, Vpo Sahnewal,	Ludhiana,	141120	Punjab	Sidharth Sareen	rustxusa31@gmail.com
23	S S Extrusions	Ground Floor Plot No 40 Sector 8, Ved Vyas Puri Industrial Area,	Meerut	250103	Uttar Pradesh	Shilpi Garg	vipul@sansopipes.com
24	Salonlabs Exports India Private Limited	N0. 1/3/4, Behind I.O.B Building.,Begur Main Road, Bommanahalli.,Bangalore,-Karnataka,Bengaluru Urban,560068	Bangalore	560068	Karnataka	Naveen Kumar	finance@salonlabs.in
25	Sam Flexipack Solutions Llp	44, R.N.T. Marg,	Indore	452001	Madhya Pradesh	Rakesh Kushwaha	abhiskek@comsyn.com
26	Shree Ganesh Indian Hair	474 (New No.72), Mint Street, , Sowcarpet, , Chennai , Chennai , Tamil Nadu, 600001	Chennai	600001	Tamil Nadu	Ashok Kumar	india@sgihair.com
27	Shree Siddhi Polyolefins	Plot No V-155, Midc, Jalgaon	Jalgaon	425003	Maharashtra	Prashant Vijaysing Patil	visitpvp@gmail.com
28	Skipper Limited	3a, Loudon Street 1st Floor	Kolkata	700017	West Bengal	Sajan Kumar Bansal	arup.ghosh@skipperlimited.com
29	Snv Polyplast Industries Llp	B 801, Pramukh Hills, Near Rajmoti Complex, Chharwada Road, Chharwada, Vapi Valsad	Vapi	396191	Gujarat	Rajesh Shirvi	snvpolyplast@gmail.com
30	Supreme Devices Private Limited	24/12, Gali No.6,Master Mohalla, Libaspur, Samaypur Indl.Area ,North West,	Delhi	110042	Delhi	Ashish Bhandari	supremedevices@outlook.com
31	Supreme Import Export Limited	Bagrian Road, Dhuri, Sangrur,	Sangrur,	148024	Punjab	Sanjeev Kumar Goyal	supremeimport13@gmail.com
32	Tetri Exporter	286,Sukantapally, Bolpur, Birbhum.	Birbhum	731204	West Bengal	Sanjeev Kumar Goyal	jkhatick@gmail.com

33	Trivictor Pack Private Limited	Kiadb , Plot No 45 , Road No 05, Obedanahalli Industrial Area, 3rd Phase , Bengaluru Rural , Karnataka, 561203	Bengaluru	561203	Karnataka	Rajanna Sudharani	admin@trivictorpack.com
34	Umang Impex India Private Limited	G-960, Dsiidc Indl Area Narela, North West,	Delhi	110040	Delhi	Umang Garg	umangimpexindiapvtltd@gmail.com
35	Vinayak Chemical Industries	C-1, B-2120, Gidc Sarigam, Ta Umargam Dist Valsad Sarigam	Sarigam	396155	Gujarat	Jayesh Nanubhai Patel	vinchemicalind@gmail.com
36	Vir-Ja Exim International Llp	2/Madhuban 28, Opp. Cadila Farm, Behind Maple Farm, Nr.Sgvp, S.G.Highway, Chharodi	Ahmedabad	382481	Gujarat	Viral Dineshbhai Shah	viral.iimrt@gmail.com

Source: Plexconcil