PLEXCONCIL - The Plastics Export Promotion Council

PLEXCONNECT®

Edition 43, January 2023

Innovation Special – Dawn of a New Era in Plastics Processing, Pg.10

Interview with Kailesh Shah, MD, All Time Plastics, Pg.26

Product of the Month – Kitchenware & Tableware of Plastics, Pg.30

Countryscape – Focus on Kenya, Pg.39

Azadi Ka Amrit Mahotsav

www.blendcolours.com

Boost Your Business Growth With Impeccable Colours of Nature

Committed to enhance quality and performance through innovating various custom colour, special effects and sustainable masterbatches to provide genuine and vibrant solutions

Application areas for colour Masterbatches

✦ Caps Closures & FMCG ✦ Wires & Cables ✦ Non Woven ✦ Oil Containers ✦ Toys ✦ Household & Furniture ✦ Woven Sacks & Lamination ✦ Polyester Fibre ✦ PP BCF

- **Leading Manufacturer & Exporter of Masterbatches, Additives & Compounds**
- **Network spread over 60+ countries**

Exceeding Your Expectations

BLEND COLOURS

Powered by Innovation

Use Plastics Properly, Dispose Responsibly

Hear BLEND, Think #BLENDCOLOURS

Blend Colours Pvt.Ltd. Plot No: #35, IDA Kattedan, Hyderabad - 500077 (TS) India.
Ph: +91-40-24361499. Email: info@blendcolours.com

Connect us with :

THE PLASTICS EXPORT PROMOTION COUNCIL

Editorial Advisory Board

Convener - Mr. Vikram Bhadauria, ALOK Masterbatches

Member - Mr. Manoj Agarwal, Kanpur Plastipack

Member – Mr. Amit Pal, Kolor Impex

Member – Mr. Devang Sheth, Polycromax Industries

Member - Mr. Sribash Dasmohapatra

Editorial Advisor - Mr. Niranjan Mudholkar

Plexconnect is published by:
The Plastics Export Promotion Council

Editor: Sribash Dasmohapatra, Executive Director, Plexconcil

Associate Editor: Sangita Iyengar

Send in your feedback, comments, suggestions to **editor@plexconcil.org**

Head Office (Head Office)
B-Wing, Dynasty Business Park, Unit No. 2, Ground Floor, Andheri-Kurla Road, Chakala, Andheri East, Mumbai – 400059, Maharashtra
Tel: 022 – 40170000

Delhi - Northern Regional (Regional Office)
319, 3rd Floor, Block - E, International Trade Tower 99, Nehru Place
New Delhi - 110019
Tel: 91-11-26478817 / 26478819
Fax: 91-11-26478821
Email: plexnr@plexconcil.org
ashutosh.kumar@plexconcil.org

Chennai - Southern (Regional Office)
No: 5 | Ground Floor | Vivekananda Road
|Off Spur Tank Road
Chetpet | Chennai 600 031 | Tamil Nadu | INDIA
Tel : +91 44 2829 2620 | 2829 2625 (D)
M: +91 98400 53930
Email : ruban.hobday@plexconcil.org

Kolkata - Eastern Regional (Regional Office)
Vanijya Bhavan, 1/1 Wood Street
Kolkata - 700016
Tel: 91-33-22834497 / 22834498
Fax: 91-33-22834289
Email: nilotpal@plexconcil.org

Ahmedabad – Gujarat Region (Regional Office)
A-1001, Titanium Heights,
Nr. Vodafone House,
Corporate Road,
Prahladnagar, Makarba,
Ahmedabad- 380015 (Gujarat)
Tel: 079-48010103
Email: naman@plexconcil.org

@officialplexconcil
THE PLASTICS EXPORT PROMOTION COUNCIL
@plexconcil
@officialplexconcil

To protect your harvest, mulch films need to last an entire season.

Adverse environmental conditions can lead to cracks and tears in mulch film over time. Our masterbatches can solve these problems.

We use a combination of silver, black, UV and Anti-Oxidant masterbatches for:

- High Sunlight Reflectance
- High Opacity
- Chemical & Pesticide Resistance

Our high-quality masterbatches also offer smooth finish and high gloss, meaning your products look fantastic!

Contact us for Mulch Films or GeoSynthetics needs!

dhirendra@jjplastalloy.com

www.jjplastalloy.com

+91 8808 736 600

Bharuch (Gujarat) & Chandauli (U·P), India.

JJ Plastalloy
MASTERBATCHES & COMPOUNDS
Science that betters your everyday

QIQO

The Economic Times
Best Plastics & Polymers Brands 2021
JJ Plastalloy Pvt. Ltd.

Tatva
KNOWLEDGE CENTRE
Simple science solutions to improve lives

CONTENTS

From the Chairman's Desk 05

Council Activities – November 2022 06

Innovation Special - Dawn of a New Era in Plastic Processing 10

Export Performance – November 2022 19

Interview with Kailesh Shah, MD All Time Plastics 26

Product of the Month – Kitchenware & Tableware of Plastic 30

Polymer Price Tracker 33

Growth of Exports through Free Trade Agreements – Sudhakar Kasture Explains 35

Countryscape – Focus on Kenya 39

Recycled Plastics - A New System for Building 'Land On Water' 43

Incoterms – Guide for Global Freight 45

International News 49

India News 54

Why become a Plexconcil Member? 58

New Members – November 2022 59

KONSPEC®

Your Tomorrow™

Nature to Nature
An Eco Friendly Alternative

Bio Degradable & Compostable Compounds & Masterbatches

APPLICATIONS

- **Disposable Cutlery**
  Spoons, Forks, Knives etc.,
- **Flexible Packaging**
  Textile Bags, Garbage Bags, Shopping Bags
- **Thermoforming Containers for Food Packaging**
  Hot & Cold Applications
- **3D Filaments**
- **Extruded Straws, Lollipop Sticks, Earbud Sticks etc.,**
- **Bio Polymer Coated Paper cups**

Compounds & Masterbatches meet the requirements of
EN 13432, ISO 17088 & ASTM D6400 Standards

NABL CERTIFICATE
TC-7142

Supported by fully equipped **NABL accredited lab** capable of testing as per **International protocols**

KONKAN SPECIALITY POLYPRODUCTS PVT. LTD.
Plot No.37, KIADB Indl. Area, Baikampady, Mangalore - 575011
Tel. 0824-2408129/2409274 | Email - rrnayak@konspec.com
www.konspec.com

Out the outset, we extend our warmest wishes for a very Happy New Year 2023 to all our readers and here is hoping that the year ahead helps you find the inspiration and motivation to achieve all your dreams and goals.

The month of November was quite busy for us. Plexconcil participated at INDPlas in Kolkata as well as held its Promotional Meet for Plexconnect 2023. The participation at INDPlas and the promotional event went off extremely well. Our team took this opportunity to meet many members from the region and highlighted the benefits of participating at Plexconnect 2023 as well as raise awareness about joining the export fraternity among the prospective audience.

The past few weeks have also been very critical in terms on policies. Yes, it is that time of the year again and the Council, after consulting numerous industry associations and hearing their concerns, have submitted our pre-budget recommendations to the Govt of India in the sincere hope that our concerns will be addressed in the upcoming Budget. We also recently met with the office of the DGFT and among other things, have submitted our pre-budget proposal indicating the reasons for increasing BCD to a minimum of 20% on certain value-added plastics products and its ramifications on the industry / exports. A list of 60-70 items have been identified by the council where BCD needs to be raised to 20%. We have shared India's total imports of these items from the world and from China and our share in exports of value-added plastics to major economies like USA/,UK etc.

In our proposal, we have also highlighted the impact on consumer / retail prices / inflation if GOI raises BCD to 20%. These recommendations have been made in light of the increasing consumption and processing capacities domestically as well as India's export potential considering the increased competition from other countries. During November 2022, India exported plastics worth USD 945 million, lower by 4.6% from USD 991 million in November 2021. Cumulative value of plastics export during April 2022 – November 2022 was USD 8,178 million as against USD 8,768 million during the same period last year, registering a decline of 6.7%.

Meanwhile, the much-anticipated PlastIndia will take place from February 1-5, 2023 at Pragati Maidan in New Delhi. The event comes after a long gap of three years and hence there is much excitement as the fraternity looks forward to one of the largest events for plastics in Asia. Plexconcil, as a founding member, is organizing a Reverse Buyer Seller Meet during the event and in addition to ensuring a solid international buyer representation, we also look forward to promoting plastics exports and Plexconnect 2023 during this powerhouse event.

In this issue of the magazine, we bring you a very interesting interview with Shailesh Zaveri of Zaveri Engineers. What makes this company unique is their latest innovation in plastics processing that can be a game changer for the global processing industry. After forty years of R&D, they have developed a FIRST of its kind "Grain Orientation of Polymers in plastics processing", an indigenous innovation & patented process through which various products of superior quality finish can be processed at a cost which is 75-80% less than other conventional plastic processes. The detailed interview and analysis are a must read.

We also look at export of kitchenware and tableware under our Product of the Month section along with an interview with Kailesh Shah, MD, All Time Plastics. Our focus country in this issue is Kenya. We also bring to you an interesting story on how recycled plastics have been used to create an entire floating city pioneered by MAST. Indeed, plastics can do wonders. All this in addition to news and views.

As we start on another brand-new journey, it is perhaps significant to note that what the year ahead will bring us depends a great deal on what we bring to the year. So, let's give it our best efforts!

Warm Regards,

Hemant Minocha
Chairman

PlastIndia 2023 Promotional Meet at Kolkata on 2.11.2022 | Eastern Region

Promotional Event of Plast India 2023, held in Kolkata on 2nd November 2022. Smt Vandana Yadav, IAS Chairperson & Managing Director, WBIDC, Secretary, Industry Commerce & Enterprises Department, Govt. of West Bengal was the Chief Guest. Janab Khalid Aizaz Anwar, IAS, Commissioner of Commercial Taxes, Dept. of Finance, Govt. of West Bengal was also attended the function. Mr Nilotpal Biswas, RD represented PLEXCONIL at this event.

Meeting with the OPPI and AIPMA regarding the Pre Budget-Proposal for the F.Y. 2023 – 24 – 4.11.2022 - Shastri Bhawan | Northern Region

A meeting was chaired by the Joint Secretary (C&PC) regarding the pre-budget proposal for the Financial Year 2023 – 24. The meeting stressed upon the issues raised by major players like OPPI and AIPMA. Core issues like Make in India were discussed during the meeting and there was also the issue of raising the import duty to enhance the vision of Make in India discussed. The issues of FTA were also discussed, and it was felt that the Government should stress on the FTA to enable our products penetrate into the foreign markets with whom we have entered into FTA. It was also felt that the provision should also be made to earmark the Technology Upgradation Fund passed by the Parliament of India on similar lines as the Textiles sector to upgrade our existing machineries so as to enable our products to compete in the global market.

The meeting was attended by Mr. Arvind Goenka, Former Chairman, Mr. Ashutosh Kumar, Regional Director and Mr. Anuj Sharma, Assistant Manager.

Meeting with the Hon'ble Commerce & Industry Minister, Textiles & Consumer Affairs, Food & Public Distribution Shri Piyush Goyal with Export Promotion Councils & Industry Associations - 7.11.2022 - Vanijya Bhawan | Northern Region

The meeting with the Hon'ble Commerce & Industry Minister was chaired on November 7, 2022 at Vanijya Bhawan. The objective of the meeting was to discuss the various strategies to boost exports from the Country and promote the vision of "MAKE IN INDIA" to encourage the domestic industry. The meeting addressed the various bottlenecks faced by the industry and also discussed the strategies to resolve the same.

The meeting was attended by Mr. Arvind Goenka, Former Chairman, Mr. Sribash Dasmohapatra, Executive Director & Mr. Ashutosh Kumar, Regional Director Northern Region.

Visit to the Cluster Development Initiative – Greater Noida, Uttar Pradesh – 11.11. 2022 | Northern Region

A meeting with the Chairman Laghu Udyog Bharti was arranged to discuss the Council participation at the editions of Laghu Udyog Bharti, an initiative of the Government of Rajasthan. The event targets the small and medium sector enterprises to participate for the fruitful outcome of their business entrepreneurs. The Council has also earlier taken a complimentary booth at the event in the edition of 2016 but this time with the efforts of the Delhi office the Council Northern Region has agreed for the long-term association with them through the Memorandum of Understanding (MOU) with them. The terms and conditions of the Memorandum would be finalised with Laghu Udyog Bharti as the same are yet to be finalized to generate maximum benefits for the Council.

A visit was also made to various industry locations in Faridabad which primarily focuses on the plastics sector. Subsequently Laghu Udyog Bharti would also facilitate the Council Northern Region during their various visits to the clusters located in various parts of Northern India.

Mr. Ashutosh Kumar, Regional Director, Mr. Anuj Sharma, Assistant Manager & Mr. Ashok Kumar Shah from the Northern Region interacted with the officials of Laghu Udyog Bharti and also inspected the various Industry locations.

Roadshow of Saurashtra Plast 2022 at Ahmedabad on 12.11.2022 | Western Region

Saurashtra Plastics Manufacturers' Association is organizing Saurashtra Plast 2022 from 14th -17th December, 2022 at Race Course Ground, Rajkot. To promote this Exhibition and connect with Industry participants the road show of Saurashtra Plast was organized at Ahmedabad at on 12th November, 2022. Office bearers from GSPMA, SPMA and Laghu Udhyog Bharti inaugurated the event. Naman Marjadi, Asst. Director, Plexconcil Ahmedabad represented the PLEXCONCIL at this event.

Cosmoprof Italy 2023 Show Exhibitor's meeting – 16.11.2022 | Southern Region

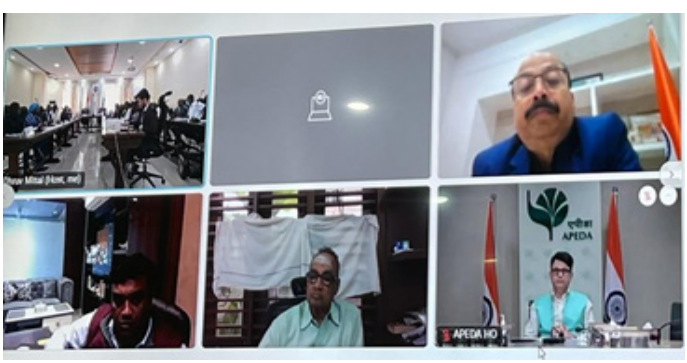
Cosmoprof Italy 2023 Show Exhibitor's meeting was organized by the Council in order to finalize various preparatory works pertaining to India Pavilion-exhibitors which is scheduled to be held during March 2023 at Bologna, Italy. The meeting was attended by Mr. Ruban Hobday, Regional Director-South along with Fierra Italy officials and 18 exhibitors from India.

Review VC meeting on the export target achievement of NEA Region held on 17.11. 2022 | Southern Region

The VC review meeting on the Export target achievement of NEA Region was held under the Chairmanship of Shri. Anant Swarup, Jt. Secretary, DoC, Govt. of India on November 17, 2022 to discuss on the trade balance pertaining to NEA Region. The meeting was attended by Mr. Ruban Hobday, Regional Director-South.

Virtual B2B Meeting organized by Embassy of India, Kinshasa, DR Congo on 21.11.2022 | Eastern Region

Virtual B2B Meeting organized by Embassy of India, Kinshasa, DR Congo on 21.11.2022 in Association with Federation Des Enterprises Due Congo, APEDA, PLEXCONCIL & FICCI. Leading exporters of rice/wheat/Sugar and Plastic products attended the meeting. During the Meeting, Mr Sribash Dasmohapatra, ED, PLEXCONCIL made a presentation on India's strength and potential of plastic sectors for trade and business with DR Congo.



Webinar on Importance of Insurance and Risk Management for Plastic Industry on 23.11.2022 | Western Region

The Plastic Export Promotion Council (PLEXCONCIL) is organized a Webinar on Importance of Insurance and Risk Management for Plastic Industry on 23rd November, 2022 (Wednesday) from 03.30pm- 04.30pm on virtual Platform. The objective of this webinar was to inform participants about key Elements of Structuring the Right Insurance and Risk Management Program, Key Risks, Events, Potential Exposures and detailing on Property, Marine and Liability Insurance Solutions.

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. Mr. Arun Kumar Srivastava, Joint Director – Marsh India and Panel of speakers from Marsh India spoke in detail about webinar topic. Q & A session was moderated by Ms Bharti Parave, Assistant Director, Plexconcil. The webinar ended with Vote of Thanks by Naman Marjadi, Asst. Director, Plexconcil Ahmedabad.

Meeting with the Hon'ble Commerce & Industry Minister 0n 24.11.2022 - Vanijya Bhawan | Northern Region

The Council Delhi office arranged for the necessary protocols regarding the meeting of the Chairman, Mr. Hemant Minocha, with the Hon'ble Commerce & Industry Minister on November 24, 2022.

Indplas Trade Fair 2022 held at Biswa Bangla Mela Prangan, Kolkata (25-28, November 2022) | Eastern Region

Indplas Trade Fair 2022 was held at Biswa Bangla Mela Prangan, Kolkata organised by Indian Plastics Federation (IPF) in Kolkata from 25 to 28th November 2022. PLEXCONCIL had an information booth at this fair. Mr Hemant Minocha, Chairman, Mr Sribash Dasmohapatra, ED & senior officers of PLEXCONCIL attended the event.

DCS INTERNATIONAL TRADING COMPANY

Formally Known as PKS International Company

Top Merchant Exporter in Northern Region 2004 to 2021

Awarded as Top Merchant Exporter in "Northern Region" by The PLEXCONCIL (Ministry of Commerce & Industry, Govt. of India)

For consecutive 17 years

Top Merchant Exporter in Northern Region 2004 to 2021

LEADING EXPORTER OF 100% INDIAN HUMAN HAIR
PIONEER IN THIS INDUSTRY SINCE 50 YEARS.

We are fully committed to quality with regards to our products as well as our processes and services. This is fully corroborated by our long standing relationships with almost all of our international clients.

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

Top Export Excellence Award in (Northen Region) by "FIEO"

Highest Foreign Exchange Earner Award in (Northen Region) by
"FIEO" (Ministry of Commerce & Industry Govt. of India)

"Niryat Shree & Niryat Bandhu"
For Highest Exports in Non-MSME Category by "FIEO"

DCS GROUPS

Mr. Prem Kumar Solanki | **Mr. Pushpender Kr. Solanki**

Corporate Office : 2nd Floor, 223 DLF Tower, 15 Shivaji Marg, Moti Nagar New Delhi-110015 (INDIA)
Telephone : +91-11-45566861 Mobile : +91-9716035229
Email : dcs@dcshairs.com, pks@pkshairs.com | Website : www.dcshairs.com

★ ★ Two Star Export House

RECOGNIZED BY THE MINISTRY OF COMMERCE & INDUSTRIES (GOVT. OF INDIA)

SCAN QR CODE FOR MORE DETAILS

Dawn of a New Era in Plastic Processing

Interview with Shailesh Zaveri, Proprietor, Zaveri Engineers

Conventionally, plastics processing technologies include Injection moulding, blow moulding, roto-moulding. Now, re-imagine the way you have been processing plastics for decades? Zaveri Engineers bring you the game changer! Reducing machinery cost by 70-85%, tooling cost by 85-90%, electricity cost by 65-75%, the dynamic duo, Shailesh & Shrenik Zaveri are poised to introduce the FIRST of its kind, plastics processing technology to the world!

Indigenously developed, and perfected over the past nearly four decades, Grain Orientation of Polymers in plastics processing is now a reality. Going beyond applied science, Zaveri Engineers have developed this patented process that has the hallmarks of science, art & varied perceptions towards traditional polymer processing practices.

Proud to contribute towards the Govt of India's "Make In India" initiative, this FIRST of its kind processing is set to revolutionize not just the Indian plastics industry, but create a global foot print in showcasing India's technological capabilities and truly innovative thinking.

In Plexconcil's endeavour to showcase the country's prowess in technology and innovation, Plexconnect brings you an insight into this new technology and how it has all the markings that will redefine plastics processing as we know it.

(excerpts)

What is grain orientation of Polymers?

Grain Orientation means realigning the molecules through a process with the help of thermal media. This greatly enhances the material

properties such as the strength and the impact resistance which are achieved very high if compared to conventional method.

(For e.g. Spanner, when forged refines the grain structure and develops the optimum grain flow, which imparts desirable directional properties such as tensile strength, ductility, impact toughness, fracture toughness and fatigue strength.)

Tell us about the new process that you have developed using grain orientation?

After an arduous journey of about 37 years, we have developed a brand-new process that is presently not used or applied anywhere in the world. Our process involves hydraulic or mechanical force applied along with thermal media to manufacture hollow plastic products.

We believe that engineering is not just an applied science. It is a fusion of art, science and varied perceptions. The result of which is a new technology in plastic process which brings down the machinery & tool cost by almost 75 - 80%. This new concept allows one to transform a polymer preform by Grain Orientation Method from which various products of superior quality finish are achieved at a cost which is 75-80% less than other plastic conventional processes.

What are the advantages of the process of traditional processes?

After decades of research, we have finally achieved a processing method that will not just revolutionize plastics processing, but moreover in the long run, will prove truly sustainable and reduce the environmental impact of industrialization. Plastics today touches our life is numerous ways and our answers to creating a sustainable world lies in science. And that has been our attempt thus far. In the following chart, we bring you comparisons of the different conventional processes and the one we have developed. The result is for all to see.

We started work on this process nearly forty years ago, when the only processing technologies availabl

Tooling Size per shape & size:- From 300mm hexagonal - decagonal - octagonal x 400mmH to 750mm hexagonal - decagonal - octagonal x 900mmH

Process	Tooling / Mould Cost INR	Machinery Cost INR	Additional Tooling Cost INR to make new shape.	Thermal Load Temp. (°C)	Cycle Time (In Minutes)	Raw material	From single machinery set-up different Shapes & Sizes of Tooling / Mould	Quality Out-Put	Production Qty.	Prototype Tooling / Mould
Our Technology (Invented by Shailesh J. Zaveri) Made in INDIA	**` 31 Lakh (approx. USD 40635) (Pentagon, Hexagon, Octagon, Decagon. 5 set of design x 20 shapes)**	**` 51 Lakh (USD 5.1M)**	**` 1.15 Lakh (USD 1509)**	**87°C - 120°C**	**1.5 - 3.5**	**Preforms required**	**Multiple Possibilities.**	**No visible parting lines. Very Good surface finish**	**Yes & Minimum qty. also possible.**	**Very Cost effective. Multiple shape possible from single tooling.**
Injection Mouding (Invented by John Hyatt and Isaiah Hyatt)	` 11.65 Lakh (approx. USD 1.2M) (per shape-per size-per product)	` 97.25 Lakh (USD 9.7M)	` 11.65 Lakh (USD 1.2M)	170°C - 270°C	1.5 – 5	Not required	Not Possible	Visible Parting lines	Minimum qty. NOT possible. Only mass production	Very Costly. Not Possible for multiple shape
Roto Moulding (Invented by R. J. Powel)	` 70 Lakh (USD 7M) (per shape-per size-per product)	` 65 - 75 Lakh (USD 6.5 to 7.5M)	` 70 Lakh (USD 7M)	260°C - 370°C	2 nos. per hour.	Not required	Not Possible	Poor Surface finish.	Very low volume	Very Costly. Not Possible for multiple shape
Blow Moulding (Invented by Enoch Ferngren - William Kopitke)	` 85 Lakh (USD 8.5M) (per shape-per size-per product)	` 80 - 90 Lakh (USD 8 to 9M)	` 90 Lakh (USD 9M)	140°C - 250°C	1.5 - 5	Preforms required	Not Possible	Visible Parting lines. Poor Surface finish.	Minimum qty. NOT possible. Only mass production	Very Costly. Not Possible for multiple shape

(All figures are representation purpose only. Actual figures depend on various statistics.)

As the FIRST to have developed this process, what were the challenges that you faced along the way?

in India were imported. Even today, if we look at processing technologies used, these are all inherently imported. There were no indigenous processes ever developed or used in India. So, our pursuit began with the vision to create a process that is firstly purely indigenous.

At the beginning, we did not have access to high end 3D and CAD programs. We worked the traditional and hard way of using "T squares & Set Squares". It was laborious. Furthermore, as many inventors in India would have faced, we also had to finance our own R&D as there was little to no support. Not even banks then wanted to invest in our R&D. However, we forged ahead, invested all our resources into our vision and today we have developed a process that can create any product that a designer can envision.

Another challenge was to keep the technology while it was being developed under wraps and away from being copied. Getting the patent for the process was also painstaking.

When we speak of "Make In India" we believe that it should be truly a national concept. It should not be just about manufacturing Indian products using Indian materials. It should be the process, too. Today, we have many products that are made in India and exported to the world. Indian products have very high recognition globally. We have earned our seat at the table with many advancements. And now we truly believe that our process, which is the first of its kind, will bring greater recognition for our country as it will bring about a new era in plastics processing.

What is the global prospect for your process/ technology? Who is your anticipated target audience?

This process is ideal for consumer plastics (e.g. planters, tower clock, floor lamp, pouffe chairs, fountains, lamp shades, carry basket, frames etc.). As the process is very cost effective, requiring very reduced set up, machinery, tooling, space etc, it is beneficial for even very small-scale industries. Furthermore, electricity saving of 70% at least have been seen as the process works on thermal and solar heating. With global industries seeking more sustainable solutions, especially in manufacturing, our process is most timely. It can be easily implemented anywhere in the world.

Our anticipated target audience includes the Plastic furniture industry, home / office / landscape décor and with more R & D it can be useful in other sectors also. In industrial use, the process is well suited for gas / air transportation (e.g. Ducts having temperature range between 15 to 40 degree centigrade).

What are the potential limitations to using the process, if any?

Only Hollow products can be manufactured. Different types of polygonal shapes and design are manufactured.

Is the process compatible with use of recycled polymers?

As is a general practice, most manufacturers usually prefer virgin polymers to ensure high quality output for their products as it is common belief that use of recycled plastics in some applications may impact quality and mechanical properties of the products. In so far, we have tested our process with a range of virgin polymers. This was our first step and we have ensured 100% outcomes. Also, when we did start the R&D, the concept of recycled plastics, PCR, PIR, etc was nearly non-existent. Having said that, we do believe in environmental responsibility and have plans in place to test the process with PCR/ PIR. This will be stage two and with the right partners and added resources, we hope to take this phase forward in the near future.

How can the process benefit exporters?

As the competition in the plastic market on a global level is majorly from the Chinese industries, using this technology will benefit in the following areas as the tooling / mould & Machinery is very cost effective and economical. Different products for commercial, industrial, consumer etc. can be manufactured.

Our process is flexible, and it is not mandatory to manufacture only in mass / bulk volume or quantity. Even small batches can be effectively manufactured as overall investment in the set-up and tooling is very cost effective. The products which are processed from our technology will have Exceptional Strength and Ductility, High Impact Resistance, Light Weight offers savings in transport, installation and structural support, Material & Energy efficient – 100% Recyclable, Manufactured with significantly less embodied energy

Generally speaking, there are limitations to the shapes that can be manufactured through conventional processing methods, be it in metal or plastics. With our process, the sky is the limit and products can be manufactured as per the designer's vision. This makes it very advantageous in creating even limited-edition pieces for specific projects as one can create products that are completely unique

.

On this note, we would like to mention that our process is unlike 3D printing as it has the capabilities to process varying quantities. For example, while products manufactured in large quantities using our process will deliver economies of scale, small quantities can also be produced cost effectively. Hence it is very useful in applications that have very fast changing trends and can help exporters efficiently meet the requirements of various geographies in just one set up.

Tell us a little about your company? What was the vision behind developing this new poly processing technology?

We inherit our DNA from one of independent India's successful Company, "Bharat Bijlee" Founder and Managing Director, the Late Mr. Jethalal Sakerchand Zaveri. He was the first person to design and manufacture electrical motors in India.

Since 1974 ZAVERI ENGINEERS have been successfully doing business with a host of engineering sector related companies like Hindustan Equipment Supply (HES), Metal Box (Bearing Division), TATA Bearings for whom we developed Drum Spindle Assembly for Grinding Tapered roller used in tapper roller bearings, Olympus Elevator, KONE, ThyssenKrupp, Schindler, OTIS, for which we developed many elevator products and components etc.

Our products are precisely engineered, processed and manufactured and follow the principle of developing "process and method" with the help of IED guidelines. This has helped us progress and do business internationally with companies like Metexim, for which we redesigned Wire Griper, Larsen & Toubro Limited, SPM for Jewelry industry (in SEEPZ) etc.

The success of our growth lies in constant innovation and creative thinking. We at ZAVERI ENGINEERS specialize in making advanced technology machines, tools and products, thus simplifying the manufacturing process in various industrial sectors. Quality has played an important role in every aspect of our business activity. Our business spans various manufacturing processes.

I went to Europe to pursue higher engineering studies in plastic machinery and processes and have always studied global technologies for advanced knowledge and business opportunities. This drove us to the belief that it is time for the world to come to India in search of advance / latest technology and invention. As our Hon'ble Prime Minister Shri Narendra Modiji continues to push the "Make In INDIA" narrative, we see more and more of our technologies being used across industries globally, and it is our vision too to ensure that our indigenous technology achieves global acceptance.

For more details about the process, contact Shailesh J. Zaveri or Shrenik S. Zaveri on zaveriengineers212@gmail.com I www.zaveriengineers.com I

PURSUING ART THROUGH ENGINEERING

Polygonal Planters

It's distinct...

Our Concept:
"What we make world can't make it. What the world makes we don't make it."

Why Polygonal Planters:

- Unique and elegant shapes manufactured first of its kind in the world. Made from ou[illegible]nology.
- Best choice for **Landscape Design** Wide range of outer-surface finish can be provide like Natural Stone, Marble, Granite, Wooden, Camouflage, Blue Pottery, Carbon Fiber, Matt & Glossy to suit interior & exterior layout, furniture, garden etc...
- Made of Polymer. Strong as cement but 100% light weight than it. Beautiful as ceramic/granite/marble but 100% sturdier and lighter by weight upto 8kg.
- Can hold up-to 200 kg. of soil.
- Easy to maintain & long lasting than earthen pots.
- Suitable for both Indoor & Outdoor.
- Easy handling & transportation.
- Goliath size is coming in near future (1500 mm x 1000 mm).

It's distinct...

ONICE FANTASTICO

All heat, all desire. It is a blend of sun-drenched tones. From browns to golds to bronze shades. Everyone that lays eyes on your home will envy for it.

Octagon

WALNUT WOOD

An old wood charm.

Vintage yet modern adds class

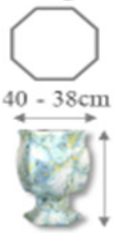
to any space.

Decagon

AZUL CIELO

Reflection of the sky, its metallic sheen lends a modern edge in a pattern inspired by the clouds. Live in a luxurious heaven.

Hexagon



SCINTILANTE

Delicacy, beauty and freedom set in planter. It fills any space with joy, peace and serenity. It sets the kind of mood everyone wishes for.

Octagon

ANNOUNCING

THE **FIRST EVER**
EXPORT FOCUSED EVENT FOR PLASTICS

PLEX CONNECT 2023™

CONNECTING
GLOBAL PLASTICS INDUSTRY

SAVE THE DATE

JUNE 15 - 17 2023

BOMBAY EXHIBITION CENTRE,
NESCO, MUMBAI

ORGANIZED BY

The Plastics Export Promotion Council

Head Office – Mumbai
Dynasty Business Park, Ground Floor, B-Wing, Office No. 2, Chakala, Andheri East, Mumbai, Maharashtra 400 059, INDIA, T : +91-22-4017 0000 | E : office@plexconcil.org | w : www.plexconcil.org

SUPPORTING ASSOCIATIONS

Please scan the QR code to Register for Exhibit / Visit / Attend RBSM

HERE REQUIREMENTS MEET INNOVATIONS

A 360° approach in Engineering with Plastics

- Tooling, Molding, Extrusion & Assembly
- Engineering Design Services
- Polymer Compounding

Why Jyoti?

- Protection of IPR
- A Mindset of Scientific Molding
- 2k Molding / IML Capability
- Excellent Quality Management System
- In-house Tool Room Setup
- Plastic Extrusion Capability
- Government of India Certified Export House
- 63 Years of Excellence
- Trusted by Fortune 500 Companies
- Established track records in supplying to USA, North America, Europe & Asian countries

EXPLORE THE CAPABILITIES WITH OUR EXPERTS!

Jyoti
PLASTICS AND BEYOND

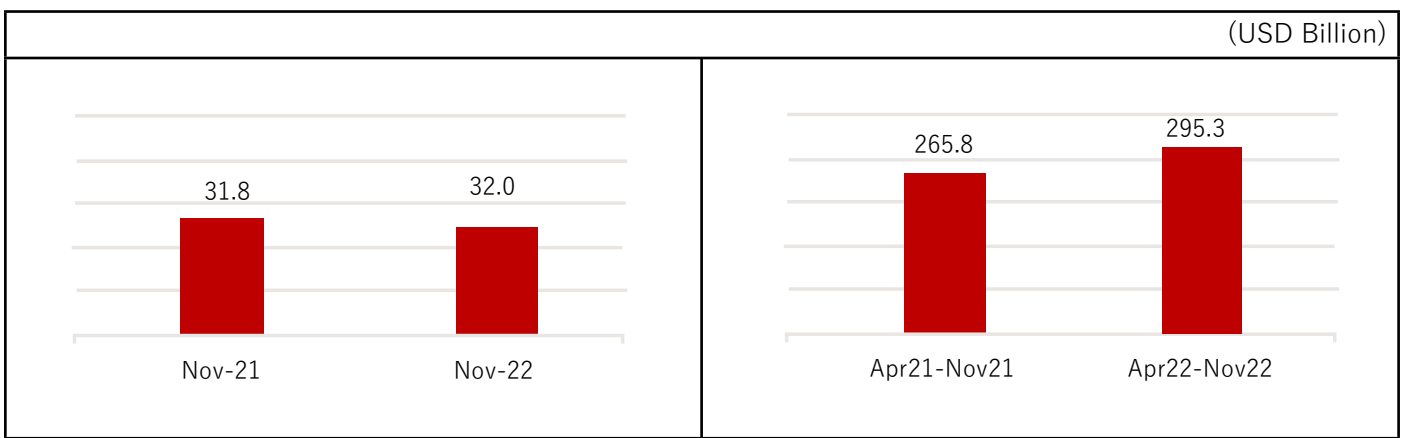
www.jyotiplastic.com

Export Performance – November 2022

TREND IN OVERALL EXPORTS

India reported merchandise exports of USD 32.0 billion in November 2022, up by 0.6% from USD 31.8 billion in November 2021. Cumulative value of merchandise exports during April 2022 – November 2022 was USD 295.3 billion as against USD 265.8 billion during the same period last year, reflecting a growth of 11.1%.

Exhibit 1: Trend in overall merchandise exports from India

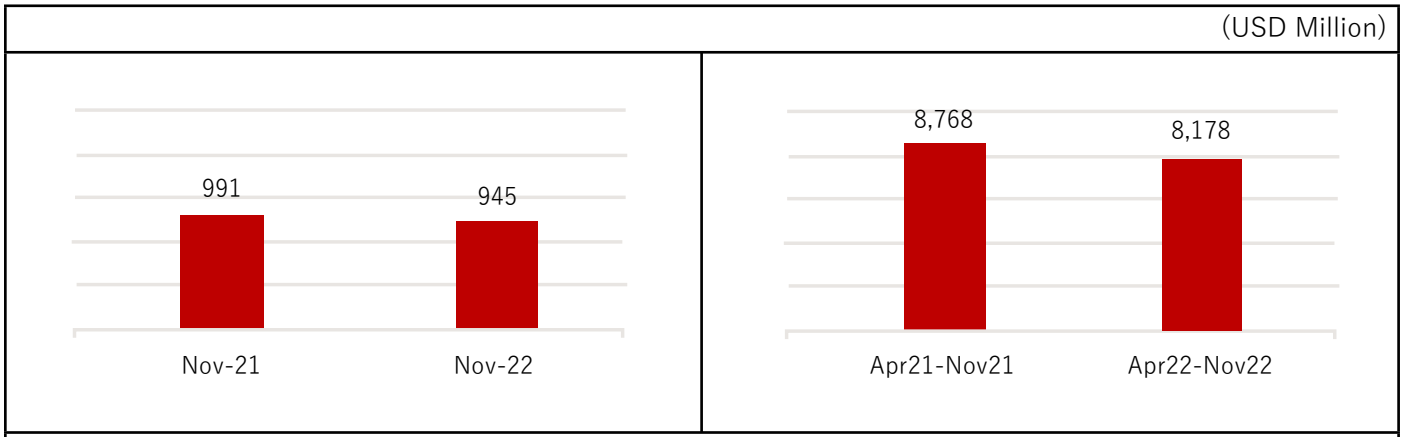


Source: Ministry of Commerce & Industry, Government of India

TREND IN PLASTICS EXPORT

During November 2022, India exported plastics worth USD 945 million, lower by 4.6% from USD 991 million in November 2021. Cumulative value of plastics export during April 2022 – November 2022 was USD 8,178 million as against USD 8,768 million during the same period last year, registering a decline of 6.7%.

Exhibit 2: Trend in plastics export by India



Source: Ministry of Commerce & Industry, Government of India

PLASTICS EXPORT, BY PANEL

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

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

Panel	Nov-21	Nov-22	Growth	Apr 21- Nov 21	Apr 22- Nov 22	Growth
	(USD Mn)	(USD Mn)	(%)	(USD Mn)	(USD Mn)	(%)
Consumer & houseware products	55.8	60.4	+8.3%	525.3	494.5	-5.9%
Cordage, fishnets & monofilaments	20.4	19.9	-2.1%	171.1	178.5	+4.3%
FIBC, woven sacks, woven fabrics, & tarpaulin	120.9	102.1	-15.5%	1,119.6	986.2	-11.9%
Floorcoverings, leathercloth & laminates	39.6	43.4	+9.4%	411.1	381.3	-7.2%
FRP & Composites	32.7	30.7	-6.0%	289.9	285.3	-1.6%
Human hair & related products	61.9	56.7	-8.4%	582.0	435.0	-25.3%
Medical items of plastics	33.4	38.4	+15.1%	266.5	325.3	+22.1%
Miscellaneous products & items nes	68.9	90.3	+31.1%	557.5	676.0	+21.2%
Packaging items - flexible, rigid	48.7	50.0	+2.7%	400.0	432.0	+8.0%
Plastic films & sheets	156.5	138.2	-11.7%	1,301.7	1,266.4	-2.7%
Plastic pipes & fittings	20.3	25.3	+24.8%	177.6	200.0	+12.6%
Plastic raw materials	316.9	269.4	-15.0%	2,829.8	2,340.1	-17.3%
Writing instruments & stationery	15.0	20.6	+36.9%	135.9	176.9	+30.2%
	991.0	945.4	-4.6%	8,768.0	8,177.5	-6.7%

Source: Ministry of Commerce & Industry, Government of India

alltime

One of India's top homeware exporter

100% socially & ethically compliant factory

(ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, amfori BSCI, SEDEX P - 4, amfori BEPI, HIGG, CDP)

Customized product designs with private labelling

ALL TIME PLASTICS PVT. LTD.

www.alltimeplastics.com | | | | expo@alltimeplastics.com

Export of **Consumer & houseware products** witnessed an increase of 8.3% in November 2022 on account of higher sales of Other builder's ware of plastics, nes (HS code 39259090) to the United States. Plastic moulded suit-cases (42021220) and Tooth brushes of plastics (960321) also contributed to the rise in exports on account of increased sales to Belgium.

Cordage, fishnets & monofilaments exports were lower by 2.1% in November 2022 due to slowing sales of Monofilament of plastics (391690) and Other made-up fishing nets (56081190) to Europe, which is a major destination for export of the above products from India.

In case of **FIBC, woven sacks, woven fabrics, & tarpaulin,** exports in November 2022 fell by 15.5% as Indian exporters reported a decline in sales of Sacks and bags of plastics (39232990); Woven fabrics (540720) and Flexible intermediate bulk containers (630532). Exports of Flexible intermediate bulk containers from India had hit a two year low in October 2022. Indian exporters have indicated that Türkiye has emerged as a major threat to India in the international markets as its currency has depreciated sharply against the US Dollar.

Export of **Floor coverings, leather cloth & laminates** increased by 9.4% during November 2022 on account of higher sales of Decorative Laminates (48239019) to NAFTA region and to the GCC countries particularly the UAE. Other textile fabrics impregnated, coated, covered or laminated with polyurethane (59032090) also contributed to the growth in exports.

Export of **FRP & Composites** was down by 6.0% due to lower sales of Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s (39269099).

Export of **Human hair & related products** fell by 8.4% due to a decline in sales of Human hair, dressed, thinned, bleached or otherwise worked (67030010). India's major export destination for Human hair is China where economic activity remains disturbed due to the Zero Covid policy and regular lockdowns. Indian exporters have also mentioned about smuggling of human hair from India to Myanmar through the land borders.

Export of **Medical items of plastics** witnessed an increase of 15.1% in November 2022 due to higher sales of Spectacle lenses of polymers (900150) and Catheters (90183910) from India to the United States. India has been a net exporter of Catheters for quite a few years.

Export of **Miscellaneous products & items nes** increased by 31.1% in November 2022 due to higher sales of Optical fibres, optical fibres bundles and cables (90011000).

Packaging items - flexible, rigid export up by 2.7% on higher sales of Carboys, bottles, flasks and similar articles for the conveyance or packaging of goods of plastics (392330) and Articles for the conveyance or packaging of goods of plastics (392390).

Plastic films & sheets export were lower by 11.7% in November 2022 due to a slide in sales of Self-adhesive sheets and films of plastics (3919); Rigid and flexible sheets of polymers of propylene (392020); and Flexible and metallised plates and sheets of plastics (39219094). Most of the plastic film & sheet exporters have mentioned about high inventory levels at factories and sluggish demand in the overseas markets.

Export of **Plastic pipes & fittings** increased by 24.8% due to greater sales of Fittings like joints, elbows, flanges of plastics for tubes, pipes and hoses (391740); and Rigid tubes, pipes and hoses of polymers of ethylene (391721). Plastics raw materials export was lower by 15.0% in November 2022 due to a decline in sales of Polyethylene with a specific gravity of 0.94 or more (390120); Polypropylene (390210); and Polyethylene terephthalate in other primary form (39076190) from India.

Export of **Writing instruments & stationery** witnessed an increase of 36.9% in November 2022 due to higher sales of Ball point pens of plastics (960810). This product segment has been doing quite well in the export market since the beginning of this year.

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

HS Code	Description	Apr 21- Nov 21	Apr 22- Nov 22	Growth
		(USD Mn)	(USD Mn)	(%)
63053200	Flexible intermediate bulk containers	658.5	604.3	-8.2%
39076190	Polyethylene terephthalate: Other primary form	531.0	475.7	-10.4%
39021000	Polypropylene, in primary forms	444.4	236.0	-46.9%
67030010	Human hair, dressed, thinned, bleached or otherwise worked	436.9	323.7	-25.9%
39232990	Other sacks and bags, incl. cones, of plastics	331.4	289.4	-12.7%
90011000	Optical fibres, optical fibre bundles and cables	285.9	450.4	+57.6%
39269099	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Other	285.1	280.3	-1.7%
39202020	Plates, sheets, film, foil and strip, of non-cellular polymers of ethylene: Flexible, plain	210.3	186.2	-11.5%
39076990	Polyethylene terephthalate: Other primary form	182.0	160.5	-11.8%
39269080	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Polypropylene articles, not elsewhere	192.2	150.6	-21.7%
48239019	Decorative laminates	173.5	189.5	+9.2%
39069090	Acrylic polymers, in primary forms (excl. polymethyl methacrylate): Other	204.8	132.4	-35.3%
39014010	Linear low-density polyethylene (LLDPE), in which ethylene monomer unit contributes less than 95 % by weight of the total polymer content	168.4	55.0	-67.3%
39206220	Plates, sheets, film, foil and strip, of non-cellular polyethylene terephthalate: Flexible, plain	167.2	145.9	-12.7%
39232100	Sacks and bags, incl. cones, of polymers of ethylene	144.4	146.6	+1.5%
39012000	Polyethylene with a specific gravity of >= 0,94, in primary forms	154.5	34.1	-77.9%
59039090	Textile fabrics impregnated, coated, covered or laminated with plastics other than polyvinyl chloride or polyurethane: Other	130.5	77.6	-40.5%
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	120.1	111.2	-7.4%
39239090	Articles for the conveyance or packaging of goods, of plastics: Other	112.1	121.7	+8.5%
39046100	Polytetrafluoroethylene, in primary forms	106.8	103.2	-3.4%
05010010	Human hair, unworked; whether or not washed or scoured	123.1	101.9	-17.2%
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	88.4	68.2	-22.9%

56074900	Twine, cordage, ropes and cables of polyethylene or polypropylene	77.9	81.8	+5.0%
90015000	Spectacle lenses of materials other than glass	85.0	95.4	+12.2%
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	77.6	73.8	-4.9%
39073010	Epoxide resins, in primary forms: Epoxy resins	74.5	69.8	-6.3%
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	76.9	58.2	-24.4%
90183930	Cannulae	66.2	92.0	+39.0%
96081019	Ball-point pens	65.3	91.5	+40.1%
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	64.2	71.9	+12.0%
39199090	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls > 20 cm wide: Other	63.4	61.5	-3.0%
95030030	Toys of plastics	73.8	11.1	-84.9%
39241090	Tableware and kitchenware, of plastics: Other	64.2	60.9	-5.1%
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	59.6	66.1	+10.8%
96032100	Tooth brushes	59.3	65.7	+10.8%
39011090	Polyethylene with a specific gravity of < 0,94, in primary forms: Other	54.4	86.5	+58.9%
39011010	Linear low-density polyethylene (LLDPE), in which ethylene monomer unit contributes 95% or more by weight of the total polymer content	61.2	32.5	-47.0%
39219096	Plates, sheets, film, foil and strip, of plastics, reinforced, laminated, supported or similarly combined with other materials: Flexible, laminated	58.8	59.5	+1.2%
39095000	Polyurethanes, in primary forms	48.7	60.5	+24.1%
39119090	Polysulphides, polysulphones and other polymers and prepolymers produced by chemical synthesis, n.e.s., in primary forms: Other	45.9	49.2	+7.2%
39140020	Ion-exchangers based on polymers of heading 3901 to 3913, in primary forms	48.5	56.4	+16.3%
39129090	Cellulose and chemical derivatives thereof, n.e.s., in primary forms: Other	46.0	58.1	+26.4%

39241010	Insulated tableware and kitchenware of plastics	43.9	35.6	-18.9%
39204900	Plates, sheets, film, foil and strip, of non-cellular polymers of vinyl chloride, containing by weight < 6% of plasticisers	44.9	53.8	+19.7%
59031090	Textile fabrics impregnated, coated, covered or laminated with polyvinyl chloride: Other	47.1	48.4	+2.7%
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	41.3	44.4	+7.7%
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	45.8	47.5	+3.6%
39235010	Stoppers, lids, caps and other closures, of plastics	44.6	47.1	+5.6%
39191000	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, in rolls <= 20 cm wide	40.7	40.1	-1.4%
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	40.1	41.6	+3.7%

Source: Ministry of Commerce & Industry, Government of India

Kailesh Shah,

Managing Director, All Time Plastics

Where Innovation & Sustainability Matters

Despite the many things one might say about plastic, what cannot be disputed is how useful it is in our daily lives. This is most apparent at home, where you can find many different products and commodities made of plastic. Plastics find major applications in household goods, storage vessels, refrigeration units, PET bottles, kitchenware, tableware, etc., due to their superior strength, chemical resistance, excellent electric insulation, and impermeability.

The world-wide import of Tableware and Kitchenware of plastics is valued at USD 13.0 billion per year approximately, and this is one of the key segments where Indian exporters have huge potential to export to the global markets. Design, innovation, recyclability, scale, etc are some of the key factors that impact the growth of the industry in India, and this requires not just capital infusion and technological advancements, but also a skilled workforce that is future ready.

In this issue of the magazine, we spoke to Kailesh Shah, MD, All Time Plastics to get a deeper understanding on the segment and insights into overcoming challenges to ensure growth. All Time Plastics is one of the country's leading names in the Kitchenware and Tableware product segments having perfected the art of infusing innovation and sustainability into the heart of everything they do.

(excerpts)

Within the kitchenware and tableware segment, what are the latest/ emerging trends globally?

The trend currently is to design parts keeping the sustainability and recycling in focus.

Consumers are looking for such options but the same is currently not affordable. Renewable materials become the only choice today, which may not be commercially viable.

Awareness about single use plastic & its impact is vast. Indian government has also passed legislations regarding the same and requires registration by all companies using plastic and also banning many single use plastic articles. The thin wall containers are being upgraded in terms of their thicknesses so that they can be reused by people (instead of throwing it and making it one-time containers).

One more problem in reusing or recycling plastics is traceability which has to be secure to have better value realization for the product that we can recycle.

While designing products, it should be kept in mind that all colours may not be available / possible from the recycling chain. Apart from the colour when using recycled plastic there will be some degradation in the quality of the polymer which may need to be reinforced with other materials such as additives, fillers etc. or the product design can be deliberated & improved so that product failures do not happen in terms of its application & use.

We have not found great acceptance of Antibacterial material thus far. We have been trying this since many years but for the end user to be convinced and to be able to distinguish between a normal and anti-bacterial product is a challenge. The antibacterial property being mentioned on product information is not enough for end user. Furthermore, not all articles require antibacterial material use.

There are no health or safety issues in terms of plastic usage with food contact as similar or same raw materials are massively used in medical and other applications.

For products used in microwave it is about the product design and thickness. You could microwave plastic product multiple times and we also test the product in a similar manner for its functional application. You cannot have a very thin wall plastic product and then keep on reheating and microwaving the product. There are lot of misconceptions in the market and trade bodies need to educate the customers with accurate information.

What are the factors driving the growth of the segment?

Availability of raw materials at competitive price and the fast-paced development in technology like better machines and faster turnaround will drive the growth.

Lot of new market possibilities are opening up due to trade agreements being signed between India and various other countries; this will make the products from India more affordable in those markets. These markets are scattered all around the world and there are about 30 to 40 prominent markets where plastic today is affordable (from the housewares segment). The bottleneck in this industry is the volume; so large sized products which are not freight friendly have taken the biggest hit during the pandemic period, and still continue to decline because of higher freight cost.

Replacing of materials like metals to plastic products from glass to plastics, etc is a continuous process and it keeps on happening. There are many new materials being developed by raw material suppliers by which new applications can be developed. Hence this is not specific to our industry but each industry finds these gaps and applications.

What has been the impact of increasing use of alternate materials (glass, metals, etc) on the segment?

There are alternate materials, but their costs are high and in many applications, they are not as friendly to use as plastic. So, for consumers this often becomes the first choice. Glass, metal and plastics have always coexisted in the market, and we see them as healthy competitors to each other.

What are some of innovations that have been introduced by All Time Plastics in recent times?

We have introduced many new products to suit our customer needs in most of our categories like chopping boards, strainers, mixing bowls, etc. We have upgraded our manufacturing set up to deliver high quality molded parts consistently and set up a state of the art manufacturing plant.

What are the new opportunities for Indian exporters today?

Generally speaking, there are numerous opportunities in toys and luggage segment for exports, apart from houseware, where value is high, and volumes are also high.

The opportunities which are available to Indian manufacturers in the view of the impact due to Covid in China are massive in nature; but whether we convert these opportunities into real orders &

real business – only time will tell. Entrepreneurs will have to invest in new factories and modernize them to give competitive pricing. Chinese manufacturers have reached a scale and a size so for them making the products that are very competitive is easy and simple versus India. If we wish that other upcoming economies do not take the cake which is offered to us today, local manufacturers will have to ramp up very fast in terms of the scale of doing business and only then we can truly go to newer global markets. If international customers see capacity constraint, then that can be a huge bottleneck impacting our growth.

What are the challenges likely to impact growth of the segment?

The increasing cost of finance, and tool rooms not equipped to deliver in lower turnaround time can impact the growth of industry. Since it is a capital-intensive industry, it calls for new investments every day. For example, in China tools are delivered in 6 to 8 weeks, irrespective of the number of tools the factory needs. The supplier base of tool makers is wide, and they deliver good quality tools with a quick turnaround. This is a challenge for converters in India.

What are the strategies that Indian exporters need to adopt to enhance their marketshare globally?

The exporters have to upgrade their product quality and overall offer total solutions and not just price of article to increase their market share.

What is the support needed from the Indian Govt/ associations to increase exports of the product segment?

The government has withdrawn the benefits under MEIS and not restored the same for plastic houseware products with RoDTEP, so we end up exporting taxes. Also, EOU units or SEZ units who are the bulk exporters buy so much domestic material and pay taxes and duties on power /freight etc are currently not allowed to apply for RoDTEP which adds up their cost.

Our industry provides huge employment, but nothing is heard from the government, even though many representations have been sent to introduce RoDTEP to our chapter 39 of houseware; irrespective of the unit location in DTA /EOU etc.

We also need skilled manpower and technical training colleges, so the new workforce is already trained when they graduate and need not go through a training process, when they start on the shop floor.

We also await introduction of new labour & code of conduct to be implemented.

About the Company

At All Time Plastics, we wish to radically alter the way the world looks at, evaluates, and experiences plastics.

It is this purpose that drives our constant focus on value optimization, obsession with quality and inspires us to push the limits of spatial, functional and aesthetic design. As a company, we practice our values of innovation, ethics and careful decision-making. You will experience them across all our processes.

Above all, we strive for excellence in all we do and are open to new ideas and a continuous learning curve. These values have made us what we are today and will continue to guide us tomorrow.

MINISTRY OF CHEMICALS & FERTILIZERS
DEPT. OF CHEMICALS & PETROCHEMICALS
GOVERNMENT OF INDIA

MAKE IN INDIA

Azadi Ka Amrit Mahotsav

PLASTINDIA 2023

FEB 1-5

ufi Approved Representative Event

PRAGATI MAIDAN • NEW DELHI • INDIA

11TH INTERNATIONAL PLASTICS EXHIBITION, CONFERENCE & CONVENTION

organised by PLASTINDIA FOUNDATION®

IT'S ALMOST HERE! HAVE YOU REGISTERED?

THE COUNTDOWN HAS STARTED!

SAVE TIME! SAVE MONEY!
REGISTER NOW!

Scan to Register

40 PARTICIPATING COUNTRIES EXPECTED

200000 VISITORS EXPECTED

1800 EXHIBITORS EXPECTED

125000 SQ. METERS OF SPACE EXPECTED

Innovate Sustain Grow
TOGETHER WE SHAPE TOMORROW

Platinum Sponsors

Reliance Industries Limited | LohiaCorp

Gold Sponsors

MAMATA | Supreme | HMEL

Founder Members

AIPMA | OPP | IPI | IPF | GSPMA | PEC | CIPET

Constituent Members

CPMA | PMMAI

Supported By

EUROMAP

Overseas Associates

Messe Düsseldorf | ADSALE | ufi | PILATUS INTERNATIONAL CO., LTD. | beauty sky

For Booking Enquiry, Call: +91-7045644609 | For Visitor Registration, Call: +91-8051305305 | E-mail: info@plastindia.org | Website: www.plastindia.org

PlastIndiaorg | PIF_PlastIndia | company/plastindia-foundation | plastindiafoundation | youtube.com/c/PlastindiaFoundation

TABLEWARE AND KITCHENWARE OF PLASTICS

Tableware and Kitchenware of plastics includes items such as plates, cups, saucers, bowls, spatula, infant feeding bottles, trays, and other insulated ware of plastics. Tableware and Kitchenware of plastics continue to remain popular due to their availability in various styles and colours, and reasonable pricing. The product is classified under Subheading 392410 of the Harmonized System (HS) of Coding.

World-wide import of Tableware and Kitchenware of plastics is valued at USD 13.0 billion per year approximately.

- In 2021, top-5 exporting countries of Tableware and Kitchenware of plastics were: China (60%), United States of America (3.3%), Türkiye (2.9%), Germany (2.6%), and Taiwan (2.5%).
- Likewise, top-5 importing countries of Tableware and Kitchenware of plastics: United States of America (37%), Germany (4.9%), France (3.6%), Canada (3.4%) and the United Kingdom (3.3%).

In 2021-22, India exported 47,029 tonnes of Tableware and Kitchenware of plastics valued at USD 173.4 million to the world. Nigeria was the top export destination in terms of value while United States of America was the top export destination in terms of volume.

Destination Country	Value (USD Mn)	Destination Country	Qty. (Tonnes)
Nigeria	27.04	United States of America	6,090
United States of America	20.09	Nigeria	5,192
United Kingdom	17.20	United Kingdom	4,855
United Arab Emirates	16.75	United Arab Emirates	4,260
Saudi Arabia	6.42	Germany	1,810
Germany	5.76	Panama	1,668
Senegal	5.58	Saudi Arabia	1,644
Panama	4.98	Sweden	1,490
Ghana	4.54	Senegal	1,392
Sweden	3.54	Ghana	984

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

In 2021-22, India imported 5,543 tonnes of Tableware and Kitchenware of plastics valued at USD 20.2 million from the world. China was the major supplier to India.

Source Country	Value (USD Mn)	Source Country	Qty. (Tonnes)
China	13.74	China	4,547
Bangladesh	1.20	Bangladesh	434
Germany	0.74	Germany	140
Thailand	0.72	Thailand	72.1
Netherlands	0.62	Taiwan	54.5
Unites States of America	0.61	Unites States of America	49.1
Italy	0.37	Netherlands	48.3
Switzerland	0.37	Malaysia	29.0
Taiwan	0.36	Switzerland	22.7
Malaysia	0.31	South Korea	19.2

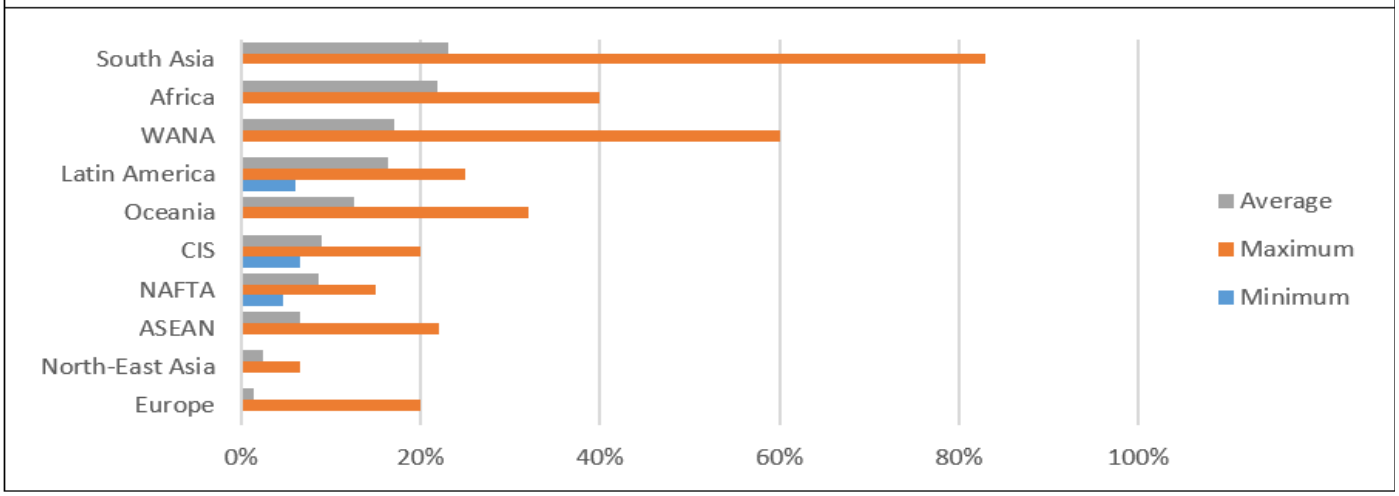
Source: Department of Commerce, Govt. of India, Plexconcil Research

Indian firms dealing in Tableware and Kitchenware of plastics have immense potential to export to destinations like Australia, Belgium, France, Germany, Japan, Singapore, South Korea, United Arab Emirates, United Kingdom, and the United States of America.

There is zero duty applicable on import of Tableware and Kitchenware of plastics from India in Republic of Korea and Japan, under Comprehensive Economic Partnership Agreement; and in Bhutan and Sri Lanka under the separate trade agreements that India has with these countries. The recently signed India-Australia Economic Cooperation and Trade Agreement also allows for zero duty import of Tableware and Kitchenware of plastics from India into Australia. Some of the ASEAN countries like Cambodia and Thailand also allow zero duty imports of Tableware and Kitchenware of plastics under the ASEAN-India Free Trade Agreement. Tableware and Kitchenware of plastics is eligible for zero customs duty in Brunei and Singapore. Import of Tableware and Kitchenware of plastics from India is eligible for preferential tariff in some of the countries in the European Union, United Kingdom as well as the UAE under India-UAE Comprehensive Economic Partnership Agreement.

Unfortunately, some countries in South Asia, Africa, WANA, Latin America, CIS and NAFTA do not accord any preferential treatment to Tableware and Kitchenware 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 Tableware and Kitchenware of plastics from India



Source: Market Access Map, Plexconcil Research

POLYMER PRICE TRACKER (DOMESTIC MARKET) NOVEMBER 2022

High Density Polyethylene (HDPE)				• HDPE prices dropped by Rs 11000 per MT in November 2022 after an increase of Rs 2000 per MT in October 2022 as well as September 2022. • In November 2022, HDPE prices were reduced by Rs 7000 per MT in the beginning of the month and by Rs 4000 per MT later.
↑	↑	↓		
Sep-22	Oct-22	Nov-22		
Linear Low-Density Polyethylene (LLDPE)				• LLDPE prices contracted by Rs 11000 per MT in November 2022 after an increase of Rs 2000 per MT in October 2022 and Rs 3500 per MT in September 2022. • In November 2022, LLDPE prices were lowered by Rs 7000 per MT in the beginning of the month and by Rs 4000 per MT later.
↑	↑	↓		
Sep-22	Oct-22	Nov-22		
Low Density Polyethylene(LDPE)				• LDPE prices fell by Rs 6000 per MT in November 2022 after an increase of Rs 3000 per MT in October 2022 and a decline of Rs 1000 per MT in September 2022. • In November 2022, LDPE prices were reduced by Rs 3000 per MT in the first week of the month and by Rs 3000 per MT around the second week of the month.
↓	↑	↓		
Sep-22	Oct-22	Nov-22		
Polypropylene (PP)				• PP prices dipped by Rs 10000 per MT in November 2022 after remaining unchanged in October 2022. Prices had increased by Rs 3000 per MT in September 2022. • In November 2022, PP prices were down by Rs 3000 per MT in the first week of the month and by Rs 7000 per MT around the second week.
↑	↔	↓		
Sep-22	Oct-22	Nov-22		
Polyvinyl Chloride (PVC)				• PVC prices further slipped by Rs 8000 per MT in November 2022 after a decline of Rs 3000 per MT in October 2022 and Rs 4000 per MT September 2022. • In November 2022, PVC prices declined by Rs 6000 per MT in the first half of the month and by Rs 2000 per MT later.
↓	↓	↓		
Sep-22	Oct-22	Nov-22		

Source: Industry, Plexconcil Research

AEQUS INFRA

HDC
HUBBALLI DURABLE GOODS CLUSTER

Join the White Goods Manufacturing
'REVOLUTION'

Aequs Infra presents HDC, India's first manufacturing cluster, developed specifically for consumer durables, including white goods and brown goods manufacturing. This vertically integrated manufacturing ecosystem will host the entire durable goods manufacturing value chain, from raw material to finished goods, and shared services like cafeteria, medical services, créches, sanitation etc.

Further, with world class manufacturing facilities and infrastructure and the fastest speed to market, our expert team makes setting up and operationalizing your business simple and easy.

Aequs Infra. We add Ease to your Business.

EASE OF DOING BUSINESS

SPEED TO MARKET

BUILT-TO-SUIT

CLUSTER ECOSYSTEM

The key benefits of the cluster are:

- *INSTANT PLUG-N-PLAY MANUFACTURING*
- *24/7 UTILITY SERVICES*
- *INCUBATION FACILITY*
- *TRAINING CENTRE*
- *READY-TO-HIRE RESOURCES*
- *RESIDENTIAL/ DORMS*

Financial Benefits are*

- **20%** **subsidy** on capital investment of plant & machinery
- **2%** **incentive** on the turnover for the first five years
- **100%** **duty exemption** on electricity for the first five years
- **₹1** per unit of **power consumed** for five years

*Full text & meaning only as per Government of Karnataka (GO) Government Order

Contact us at: 82086 48747 vijay.singh@aequs.com

Address: No 55, Whitefield Main Road, Mahadevapura Post, Bengaluru – 560048
Website: www.aequsinfra.com

Growth of exports through Free Trade Agreements

Sudkhar Kasture, International Trade Consultant

We have set a very ambitious target of US $ 1000 Billion for merchandise exports and another US $ 1000 billion for service exports to be achieved by 2030. Needless to say, we need to explore all possibilities of developing exports wholeheartedly.

- In today's competitive scenario, Market Access primarily depends on four issues:-
- Quality
- Technical standards
- Tariff and Non-Tariff Barriers
- Competitive cost

Every importer of the world considers "Landed cost" as most important aspect after comparing quality. Not only this, services including documentation also play an important role.

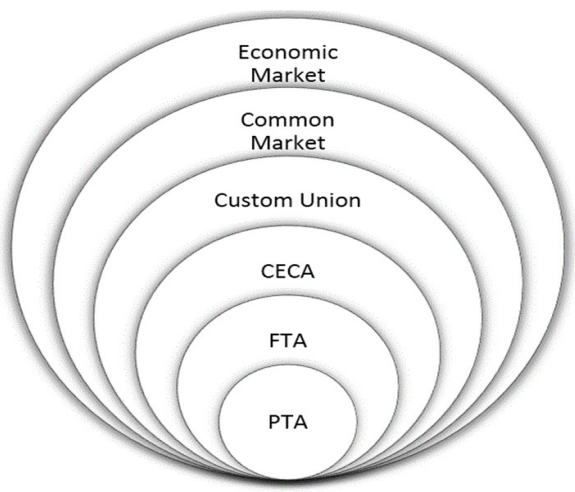
Landed cost consist of CIF at the given port plus duties, clearance expenses, transportation and any other relevant cost for effective delivery:-

- At the importer's factory / warehouse and
- At the hands of customer wherever he is (E-commerce transactions)

FTAs reduce the duty element. It also helps to negotiate Tariff and Non-Tariff Barriers.

Quality and technical standards are two essential aspects where no compromise is accepted by any buyer of the world. Commitment to quality and maintenance of standards are known factors and every exporter knows that he has to take care of these two aspects.

Tariff & Non-tariff barriers and competitive cost are another two critical factors for which FTAs can help tremendously.



Let's understand FTAs as a concept and as a measure:-

There are Four types of FTAs currently handled by India. They are as follows:-

- **Preferential Trade Agreement (PTA):**

- In a PTA, two or more partners agree to reduce tariffs on small number of tariff lines which is called "positive list". Such agreements are at the beginning of trade negotiations and normally they offer duty concessions but not duty exemptions. Example:- India MERCOSUR PTA

- **Free Trade Agreement (FTA):**

- In FTAs, tariffs on items covering substantial bilateral trade are eliminated between the partner countries. In every FTA there is a "negative list" which covers items on which no concessions are given and a "sensitive list" on which duty concessions are given in a phased manner. FTAs are more ambitious in coverage of tariff lines (products).

- **Comprehensive Economic Cooperation Agreement (CECA) and**

- **Comprehensive Economic Partnership Agreement (CEPA):**

- These terms describe agreements which consist of an integrated package on goods, services and investment along with other areas including IPR, competition etc.

Countries like EU have a better and comprehensive version called **"Customs Union"**, which practically abolishes the border control and customs duties e.g. if goods are to be sent from Germany to France, German seller is not supposed to file Shipping bill and French importer is not supposed to file Bill of Entry. Goods will move from Germany to France on payment of VAT, no Customs duty would be chargeable.

In all FTAs, concessions are offered on Basic Customs Duty. These concessions are based on origin criteria. For the purpose of granting benefits goods are categorized into two parts:-

- **Wholly Obtained (WO):-**

WO are those, which are made from originating materials e.g. in India-Korea agreement goods manufactured by using Indian and Korean ingredients would be called WO. If such goods have import content (ingredients obtained from other countries) then they would be called Partially Produced.

A certain % of ingredients which consist of non-originating materials can also be covered under the principle of de-minimis. 1% of FOB value is normally permitted as **"Di-minimis".**

- **Partially Produced (PP):-**

Normally there are Three conditions:-

- **Change in HS Code at 6 digit level**

- It relates to the conversion of inputs into a new product, when change gets carried out @ Six digit level of HS Code. It is normally a process of manufacture and simple processes like job work (without changing characteristic) of a product, re-packing, re-labelling etc. are not covered.

- **Definition of process of manufacture**

- Simple processes and operations such as cutting, mixing, change of packing, simple assembly are not considered as "manufacturing processes/operations", It is always defined in the agreement.
- If for some product specific processes are to be defined then they will be separately mentioned. In such cases, process plays an important role. It can be a process of manufacturing. It may not change the basic characteristic but such product may have different uses in different industries.

- **Regional Value Content (RVC):-**

It means, the value addition done in the country of origin which includes cost of material, labor, other associated costs etc. etc. e.g. if a product is exported at Dollar 100 FOB, what should be % of imported material of other origins used in the manufacture of a product needs to be calculated.

- Most of the existing FTAs permit 60 to 65% imported material, thereby accepting RVC of 35 to 40% for the purpose of Preferential Certificate of Origin.

To qualify for duty concessions or exemption all the above three conditions have to be met. These conditions are explained in Non-Tariff notifications issued by respective countries.

FTAs are negotiated between countries based on their own interest. Duty concessions / exemptions are offered based on multiple economic factors and national interest is also taken into account. Such negotiations are a long process and multiple meetings take place between the governments. Each country wants to get benefit of Market access, while protecting its domestic market. Naturally, negotiations are based on proper dialogue, exchange of information, taking into account political and economic relationships etc. etc. However, such negotiations cannot be completely one sided. While negotiating FTAs certain precautions are taken, which are as under:-

1. Market access at ZERO duty:-

This can be offered when agreements come into force on the basis of finalized negotiations based on HS codes. Zero duty treatment can be given at one go or annualized basis e.g. a product may attract Zero customs duty on the date of entry of agreement or a product may get Zero duty from the current rate say 5% in 5 equal annual instalments. In other words, such product will be subjected to 4,3,2,1 and 0% duty in a period of 5 years

2. Market access for sensitive products:-

If the item is included in sensitive list duty concessions would be given but normally Zero duty access is not given, and duties are reduced in equal annual installments. For. E.g., if BCD is 10% and item is covered in sensitive list, India may offer duty concession upto 5% and may agree to further negotiation at a later date.

3. Concept of exclusion list:-

These are lists of those products which may have adverse impact on local industry if import duty is reduced. It is also an important aspect for protecting national interest. It should be remembered when item is included in the exclusion list, duty concessions are not considered. Exclusion list is that list where Government is not prepared to negotiate the duty concessions.

Apart from duty concessions cross border trade is also subjected to Tariff and Non- tariff barriers (NTBs). Tariff barriers means goods are subjected to higher duties and NTBs mean goods are subjected to entry barriers. Both together result in denial of Market Access. Every Government tries to negotiate reduction / exemption in duties to reduce Tariff barriers as well relaxation in entry barriers i.e., NTBs.

Common NTBs are as under:-

1. Licensing

When a product is subjected to import licensing Market Access is governed be the Government. Unless the Government grants import license, industry cannot import the goods. This automatically limits Market Access.

2. Quantitative restrictions:-

In this arrangement government allows import but limited to quantity e.g. if government says particular chemical (A) HS code (X) is allowed for import only to the extent of 10,000 MT p.a. then market access is available only for 10,000 MT annually. Further quantities cannot be imported. This arrangement is normally taken into account for sensitive items.

3. Technical barriers to Trade:-

Import of goods is also governed by compliance with technical standards, such standards at times work as entry barriers.

All these issues are considered while negotiating FTAs. Negotiations for New Free Trade Agreements (Proposed):-

We are currently negotiating following FTAs:-

Sl no	Agreement Name
1	India-USA
2	India –EU*
3	India-Gulf Cooperation Council (GCC) Free Trade Agreement (FTA) negotiations*
4	India-SACU Preferential Trade Agreement (PTA) negotiations
5	India - New Zealand Comprehensive Economic Cooperation Agreement
6	India-Canada Comprehensive Economic Partnership Agreement (CEPA)*
7	India - Israel Free Trade Agreement FTA Negotiations
8	India-CIS countries
9	India-UK*

*likely to be concluded in 2022

We are also likely to enter into discussion with entire African Continent as they are likely to create "Customs Union", which means there won't be customs duties for African countries to transact with each other and customs border will also be abolished for trade within the continent. With a combined population of almost 1.2 billion people, it offers great marketing opportunity for India. Not only this, but it would also enhance the possibilities of entering into Joint Ventures.

Our approach towards FTAs was more protective in nature. Now we need to adopt an aggressive mode for enhancing our global footprint. To ensure this we need to critically understand the following points-

- FTAs need to be a win-win situation. No country would like to offer unconditional market access. Hence, we must know our strengths, capabilities and negotiation skills to achieve desired results.
- India with population over 130 Crores is an attractive market for any country of the world. On the other hand, we need to study markets-country wise, with reference to their population, per capita income etc. etc. For example, a country like New Zealand has a population of 51 lakhs and per capita income of $48,800/-. Such a country may not buy a lot of goods but is capable of investing in India.
- Climate change is going to be another critical issue. Countries like UK, Canada, and EU are expected to incorporate conditions related to carbon emissions in their negotiation of FTAs. We should be ready to study and accept such conditions which will help us to get better market access.

It's an old saying "Everything is fair in love and war" FTA negotiation is not a love affair but more like an arranged marriage. Though "happy marriage" is expected, it is better to understand Mother-in-law and Father-in-law along with Mother and Father. Proper understanding between both parties can definitely enhance the happiness. Same principle can be applied for happiness in business as well.

Wish you all a great year ahead.

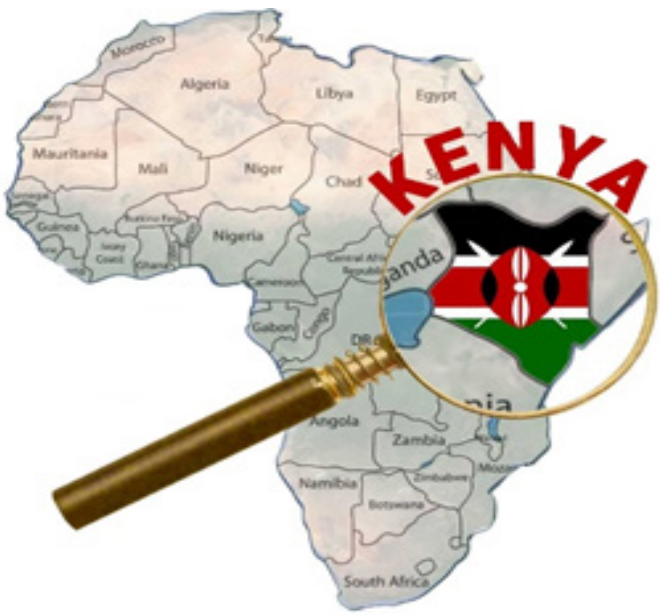
Sudhakar Kasture
International Trade Consultant
Director-EXIM Institute, Mumbai

Mr. Sudhakar Kasture is a leading consultant in International Trade, since last 40 plus years. He is consultant and advisor to many National & Multinational Corporations, Public limited and private limited companies. He has been associated with CHEMEXCIL in the capacity of Consultant since last 17 years. He is a Director of Helpline Impex Pvt. Ltd. and a Partner in Generation Next Business Consulting. These are reputed consultancy firms offering various advisory services on international trade related issues. 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, Trade Facilitation Agreement, Authorized Economic Operator, and Special Economic Zones etc. etc.

KENYA
Economic overview

Kenya is located in Eastern Africa and shares land borders with Ethiopia, Somalia, South Sudan, Tanzania and Uganda. It has an area of 580,367 square kilometres and a population of 50 million. Kenya is the largest economy in Eastern Africa, and also an economic, financial, and transport hub for the region. Though Kenya's economy mainly relies on agriculture which has been severely affected by drought, its services sector is showing robust growth. Adding to the above are the various proactive reforms being undertaken by the new government, due to which Kenya remains an exciting export destination for Indian goods.

As of December 6, 2022, S&P's rating for Kenya is B (Stable); Moody's rating stands at B2 (Negative); and Fitch has a reported rating of B+ (Negative).



Economic indicators		2019	2020	2021
Nominal GDP	USD Billion	100.3	100.9	110.5
Nominal GDP per capita	USD	2,107.7	2,072.8	2,219.2
Real GDP growth	%	5.1	-0.3	7.5
Total population	Million	47.6	48.7	49.8
Average inflation	%	5.2	5.3	6.1
Total merchandise exports	USD Billion	5.8	6.0	6.8
Total merchandise imports	USD Billion	17.2	15.4	19.6

Source: IMF, TradeMap

Kenya is a part of Common Market for Eastern and Southern Africa (COMESA), East African Community (EAC) and African Continental Free Trade Area (AfCFTA). Kenya recently completed a Free Trade Agreement with the United Kingdom, which entered into force in January 2021.

Trade overview

India and Kenya engaged in bilateral trade worth USD 2.8 billion in 2021-22. During the year, India's exports to Kenya were valued at USD 2.6 billion while India's imports from Kenya were valued at USD 145 million.

The major items of export (2-digit HS) from India to Kenya are diesel (USD 560 million), pharmaceutical products (USD 290 million), iron and steel (USD 254 million), machinery and mechanical appliances (USD 225 million), and motor vehicles (USD 215 million). Likewise, major items of export (2-digit HS) from Kenya to India are coffee and tea (USD 46 million), inorganic chemicals (USD 25 million), vegetables (USD 24 million) and copper (USD 17 million).

For products that come under the purview of PLEXCONCIL, the trade is completely in favour of India with exports of USD 154 million to Kenya and a similar trade surplus. The major items of export to Kenya being:

- Plastic raw materials (49.9%)
- Plastic sheets and films (22.8%)
- Packaging items - flexible, rigid (4.4%)

Kenya's annual plastics imports are valued at USD 1.15 billion approx. Its plastic imports are largely catered to, by China (27%), Saudi Arabia (18%) and India (11%). India holds a good standing in Kenya's import of below mentioned plastic products:

- Packaging items - flexible, rigid – Market share of 24.3% (Rank 1)
- Plastic sheets and films - Market share of 24.1% (Rank 2)
- Floorcoverings, leathercloth & laminates - Market share of 16.6% (Rank 2)
- Medical items of plastic - Market share of 11.7% (Rank 2)
- Consumer & houseware - Market share of 7.9% (Rank 2)

Export potential for India

Our internal research indicates that India's export of PLEXCONCIL member products to Kenya has the potential to grow by over USD 900 million. Details of product panels and their export potential to Kenya is provided below:

Product panel	Kenya's import from India	Kenya's import from world	India's export to world	Export potential for India
	USD Million	USD Million	USD Million	USD Million
Plastic raw materials	72.8	734.2	3,995.9	595.1
Plastic films and sheets	31.4	132.4	1,905.1	100.3
Consumer & houseware products	5.7	77.3	1,460.6	71.5
Medical items of plastics	7.1	57.8	891.5	50.7
FIBC, Woven sacks, Woven fabrics, Tarpaulin	1.5	22.6	1,682.4	20.8
Plastic pipes & fittings	3.0	26.9	266.3	18.7
Packaging items - flexible, rigid	6.6	25.2	595.8	18.6
Floorcoverings, leathercloth & laminates	6.5	20.5	770.2	14.5
Writing instruments & stationery	3.8	7.1	201.9	3.9
Cordage, fishnets & monofilaments	2.1	4.3	262.5	2.6

Source: TradeMap, Plexconcil Research

The Largest Show For
Houseware, Consumer ware, Stationery & Office Supplies!

AVAIL SUBSIDY ON STALL CHARGES & AIRFARE

ambiente

3rd to 7th February 2023
Messe Frankfurt Exhibition Centre, Germany

PAPERWORLD IS NOW AMBIENTE GIVING!

Leading Brands Under India Pavilion

Nilkamal
MODWARE
RAUT Engineering Pvt. Ltd. Deliver. Prosper. Empower
Ravenn
KLASSIK where quality meets design..
COMET Plasticware Manufactured by: General Traders

For More Details Contact : Mr. Krunal Goda
k.goda@plexconcil.org | +91 9004 005 520

India Pavilion Organised by

Department of Commerce
Ministry of Commerce & Industry
Government of India

THE PLASTICS EXPORT PROMOTION COUNCIL

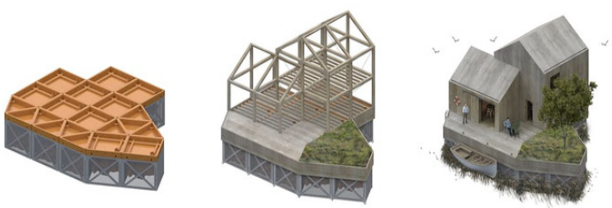
Exhibition Organised by

messe frankfurt

Azadi Ka Amrit Mahotsav

A New System for Building 'Land On Water'

An adaptable, climate-resilient system of floating architecture dubbed Land on Water has been proposed by Danish Maritime Architecture Studio 'MAST.' The design strategy has been developed with the support of Hubert Rhomberg and venture studio FRAGILE, and promises to be more sustainable and flexible than traditional methods of building on water. The team notes that this system, which uses recycled plastic, can be applied to build 'almost anything on water,' from 'floating houses in Seattle, to floating campsites at the centre of Oslo fjord, to saunas on Hobart's riverfront.'



A CLIMATE-RESILIENT SOLUTION

The architects at MAST propose Land on Water in response to the gradually rising sea levels, and the resulting increase of urban flooding — conditions which have led to a new interest in building on water. However, traditional methods of constructing such floating spaces can still be developed to meet this growing demand.

The team explains: 'current solutions, including polystyrene filled concrete foundations and plastic pontoons are inflexible, difficult to transport and highly unsustainable. Land on water promises an entirely new, sustainable and highly flexible solution.'

HOW IT WORKS: THE FLOATING, FLAT-PACK FOUNDATION

MAST develops Land on Water as a system of simple, flat-pack modules built of reinforced recycled plastic, which will shape a secure, floating foundation for the built space above. These modules are envisioned to be transported around the globe with ease, and assembled into endless configurations.

The team illustrates its design: 'The system was inspired by gabion construction, an ancient technology which utilises mesh cages filled with rubble to create extremely sturdy, low cost foundations.

'In this case the concept is inverted; and the modular 'cages' are filled with locally sourced, up-cycled floatation supporting the weight of any structure built on top. This has the unique advantage that floatation can be added or adjusted at any time if weight is added above.'

SENSITIVE TO UNDERWATER ENVIRONMENTS

Land on water also promises a far better underwater environment than existing solutions. Notably, steel or concrete foundations are commonly treated with toxic coatings of anti-fouling paints. The group notes that while its recycled plastic modules avoid such toxins, they provide 'an ideal habitat for fish and crustaceans and an anchor point for mollusks and seaweeds.'

The group describes the system's potential for growing organic, floating communities: 'Land on water promises a climate resilient and adaptable solution for the construction of new floating buildings but could also lead to an entirely new type of dynamic and organic off-grid floating community and an alternative to the large master-planned floating cities currently under development which repeat many of the mistakes made by urban planners in the middle of the 20th century.'

This article was originally published on designboom.com

Incoterms – Guide for Global Freight

International Commercial Terms – commonly known as Incoterms® - are published by the International Chamber of Commerce (ICC). Incoterms® were first published in 1936 and are continually updated over time to reflect the changing global business environment to be continually used in 2022 and beyond.

International trade involves transactions between territories that have different rules and regulations. Incoterms® are accepted by governments and regulatory authorities around the world.

What are Incoterms®?

Put simply, Incoterms® are the selling terms that the buyer and seller of goods both agree to during international transactions. Understanding Incoterms® is a vital part of International Trade because they clearly state which tasks, costs and risks are associated with the buyer and the seller.

The Incoterm® states when the seller's costs and risks are transferred onto the buyer. It's also important to understand that not all rules apply in all cases. Some encompass any mode or modes of transport.

Why are Incoterms® vital in International Trade?

According to the ICC, Incoterms® rules provide internationally accepted definitions and rules of interpretation for most common commercial terms used in contracts for the sale of goods'.

All International purchases will be processed on an agreed Incoterm to define which party legally incurs costs and risks. Incoterms® will be clearly stated on relevant shipping documents.

Incoterms® 2020 Rules Responsibility Quick Reference Guide

IncoDocs

Groups	Freight Collect Terms				Freight Prepaid Terms						
	Any Mode or Modes of Transport		Sea and Inland Waterway Transport				Any Mode or Modes of Transport				
Incoterm®	EXW Ex Works (Place)	FCA Free Carrier (Place)	FAS Free Alongside Ship (Port)	FOB Free On Board (Port)	CFR Cost and Freight (Port)	CIF Cost Insurance & Freight (Port)	CPT Carriage Paid To (Place)	CIP Carriage & Insurance Paid to (Place)	DAP Delivered at Place (Place)	DPU Delivered at Place Unloaded (Place)	DDP Delivered Duty Paid (Place)
Transfer of Risk	At Buyer's Disposal	On Buyer's Transport	Alongside Ship	On Board Vessel	On Board Vessel	On Board Vessel	At Carrier	At Carrier	At Named Place	At Named Place Unloaded	At Named Place
Obligations & Charges:											
Export Packaging	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Loading Charges	Buyer	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Delivery to Port/Place	Buyer	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Export Duty, Taxes & Customs Clearance	Buyer	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Origin Terminal Charges	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Loading on Carriage	Buyer	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Carriage Charges	Buyer	Buyer	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Insurance	Negotiable	Negotiable	Negotiable	Negotiable	Negotiable	*Seller	Negotiable	**Seller	Negotiable	Negotiable	Negotiable
Destination Terminal Charges	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller
Delivery to Destination	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Seller	Seller	Seller
Unloading at Destination	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Seller	Buyer
Import Duty, Taxes & Customs Clearance	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Seller

IncoDocs Create your Sales & Shipping Documents at www.incodocs.com

*CIF requires at least an insurance with the minimum cover of the Institute Cargo Clause (C) (Number of listed risks, subject to itemized exclusions)
**CIP requires at least an insurance with the minimum cover of the Institute Cargo Clause (A) (All risk, subject to itemized exclusions)
Copyright © 2020 IncoSolutions Pty Ltd. All Rights Reserved.
This is general information for guidance purposes only. IncoSolutions Pty Ltd is not responsible for these contents nor do the contents listed above contain all details. For a full and complete description, refer to the full version of Incoterms® 2020 by the International Chamber of Commerce at the ICC website.

An overview of Incoterms® 2020 for 11 Terms, 7 for any mode of transport.

EXW – Ex-Works or Ex-Warehouse

Ex works is when the seller places the goods at the disposal of the buyer at the seller's premises or at another named place (i.e., works, factory, warehouse, etc.).

The seller does not need to load the goods on any collecting vehicle. Nor does it need to clear them for export, where such clearance is applicable.

FCA – Free Carrier

The seller delivers the goods to the carrier or another person nominated by the buyer at the seller's premises or another named place.

The parties are well advised to specify as explicitly as possible the point within the named place of delivery, as the risk passes to the buyer at that point.

FAS – Free Alongside Ship

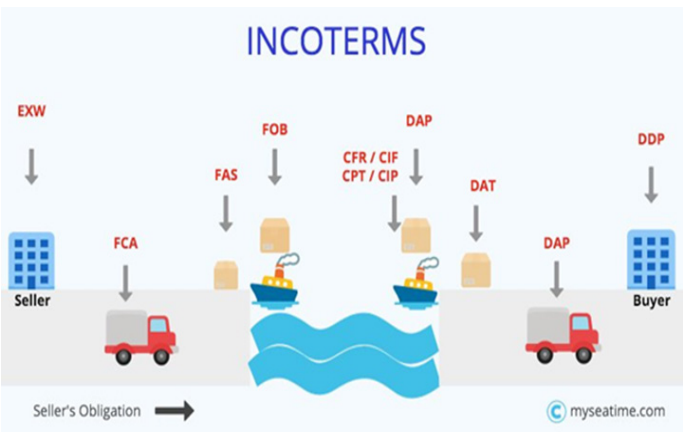
The seller delivers when the goods are placed alongside the vessel (e.g., on a quay or a barge) nominated by the buyer at the named port of shipment.

The risk of loss of or damage to the goods passes when the products are alongside the ship. The buyer bears all costs from that moment onwards.

FOB – Free On Board

The seller delivers the goods on board the vessel nominated by the buyer at the named port of shipment or procures the goods already so delivered.

The risk of loss of or damage to the goods passes when the products are on board the vessel. The buyer bears all costs from that moment onwards.



CFR – Cost and Freight

The seller delivers the goods on board the vessel or procures the goods already so delivered.

The risk of loss of or damage to the goods passes when the products are on board the vessel.

The seller must contract for and pay the costs and freight necessary to bring the goods to the named port of destination.

CIF – Cost, Insurance and Freight

The seller delivers the goods on board the vessel or procures the goods already so delivered. The risk of loss of or damage to the goods passes when the products are on the ship.

The seller must contract for and pay the costs and freight necessary to bring the goods to the named port of destination.

The seller also contracts for insurance cover against the buyer's risk of loss of or damage to the goods during the carriage.

The buyer should note that under CIF the seller is required to obtain insurance only on minimum cover. Should the buyer wish to have more insurance protection, it will need either to agree as much expressly with the seller or to make its own extra insurance arrangements.

CPT – Carriage Paid To

The seller delivers the goods to the carrier or another person nominated by the seller at an agreed place (if any such site is agreed between parties).

The seller must contract for and pay the costs of carriage necessary to bring the goods to the named place of destination.

CIP – Carriage And Insurance Paid To

The seller has the same responsibilities as CPT, but they also contract for insurance cover against the buyer's risk of loss of or damage to the goods during the carriage.

The buyer should note that under CIP the seller is required to obtain insurance only on minimum cover. Should the buyer wish to have more insurance protection, it will need either to agree as much expressly with the seller or to make its own extra insurance arrangements.

DAP – Delivered At Place

The seller delivers when the goods are placed at the disposal of the buyer on the arriving means of transport ready for unloading at the named place of destination. The seller bears all risks involved in bringing the goods to the named place.

DPU – Delivered At Place Unloaded (replaces Incoterm® 2010 DAT)

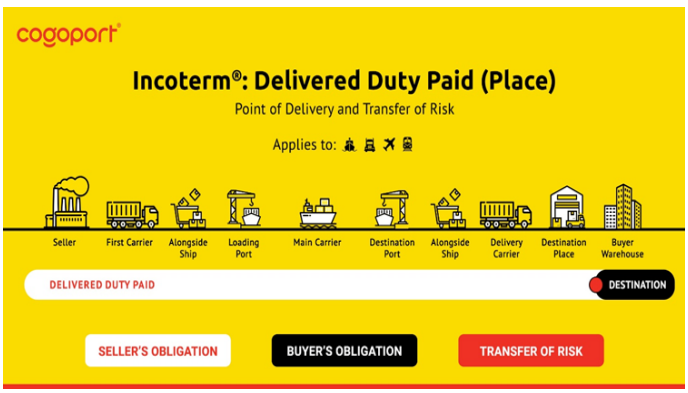
DPU replaces the former Incoterm® DAT (Delivered At Terminal). The seller delivers when the goods, once unloaded are placed at the disposal of the buyer at a named place of destination.

The seller bears all risks involved in bringing the goods to and unloading them at the named place of destination.

DDP – Delivered Duty Paid

The seller delivers the goods when the goods are placed at the disposal of the buyer, cleared for import on the arriving means of transport ready for unloading at the named place of destination.

The seller bears all the costs and risks involved in bringing the goods to the place of destination. They must clear the products not only for export but also for import, to pay any duty for both export and import and to carry out all customs formalities.



New Incoterm® DPU Replaces DAT

The previous Incoterm® DAT (Delivered at Terminal) is now called DPU (Delivered at Place Unloaded. It was decided to change the term to DPU to remove confusion that arose in the past. In the past, DAT required 'Delivery at Terminal (unloaded)', however the word "terminal" caused confusion. The new term DPU (Delivery at Place Unloaded) covers 'any place, whether covered or not'.

Different level of insurance cover between CIF and CIP

CIF and CIP are the only two Incoterms® that require the seller to purchase insurance in the buyer's name. Under Incoterms® 2010 the insurance cover for both CIF and CIP was required under Institute Cargo Clause C. Under the new Incoterms® 2020, CIP requires insurance cover complying with Institute Cargo Clause A. Clause A covers a more comprehensive level of insurance which is usually suitable for manufactured goods, where Clause C would likely apply to commodities.

In summary:

- CIF remains the same, it requires 'Institute Cargo Clause C' insurance cover – Number of listed risks, subject to itemized exclusions.
- CIP now requires an upgraded 'Institute Cargo Clause A' insurance cover – All risk, subject to itemized exclusions.

Updated Costs and Listings

Costs became quite a problem with Incoterms® 2010 with some parties. In some cases, carriers were changing their pricing so sellers were often faced with new back charged terminal handling charges. Incoterms® 2020 now provides much more detail around costs and now appear under the A9/B9 sections of the rule. This clearly states which costs are allocated to each party.

Increased Security Requirements, Allocations and Costs

In a world with increasing security requirements, the Incoterms® 2020 rules now provide more detail around security allocations and necessary costs. For each Incoterm® rule, the security allocations have been added to A4/A7 and the associated costs have been added to A9/B9.

Buyer's and Seller's Own Transport

Under Incoterms® 2010 it was assumed that all transport would be undertaken by a third party transport provider. Updates to Incoterms® 2020 allows for the provision for the buyer or seller's own means of transport. This recognizes that some buyers and sellers are using their own methods of transport, including trucks or planes to get goods delivered.

- This allows for the buyer's own means of transport under the FCA rule
- This allows for the seller's own means of transport under DAP, DPU and DDP.

How to put Incoterms® 2020 into Practice on Sales Contracts

The new Incoterms® 2020 have come into effect on the 'effective' date of the 1st January 2020. What does that actually mean for your business? Trading partners can still carry on using Incoterms® 2010 if they prefer to, which may occur when it is being used to confirm complex commercial agreements.

All parties must make it clear in contracts which Incoterms® version is being referred to in order to avoid any misunderstanding. Different trading partners will incorporate Incoterms® into contracts at different times.

It is imperative that you check existing contracts to ensure that the Incoterms® edition year is included. If there is no year stated, then the following will apply:

- Up to 31st December 2019 – Incoterms® 2010
- From 1st January 2020 – Incoterms® 2020
- If a different year is stated, for example Incoterms® 1990, then the respective terms will apply.

As Incoterms® are updated you should always take the time to assess how any changes may impact your business. It's much better to be proactive rather than reactive should some big issues arise with any of your orders or shipments. Always refer to professional legal advice before making any changes to your business.

This article is reproduced from incodocs.com

International News

Chinaplas 2023 Unveils Business Opportunities in Guangdong-Hong Kong-Macao Hub

Many companies in Asia are export-oriented nowadays, fueling expansion of international trade in the region. The Regional Comprehensive Economic Partnership (RCEP), which came into force in January 2022, is set to create the largest free trade bloc in the world among its 15 signatories and will further provide an impetus to Asian production. Chinaplas, Asia's number one plastics and rubber trade fair, looks set to help industry players unlock RCEP opportunities and plug into the prosperous prospects brought by the Guangdong-Hong Kong-Macao Greater Bay Area (GBA). The event will be staged at the Shenzhen World Exhibition and Convention Center (SWECC) in Shenzhen on April 17 to 20, 2023.

Under the theme of "A Brighter and Shared Future, Powered by Innovation," Chinaplas 2023 will highlight innovative plastics solutions and relevant market trends in a 380,000-square-meter exhibition area. Attendees from the global plastics industry will discover a well-balanced mixture of international and Chinese technologies, covering a range of applications that are transforming end markets, said event organizer Adsale Exhibition Services Ltd. (Adsale).

Trade bloc transforms Asia into global manufacturing hub

The 15 signatories to the RCEP agreement — China, the 10 ASEAN member states, South Korea, Japan, Australia, and New Zealand — allow preferential access for specific products in selected RCEP markets. Businesses in the region will now benefit from tariff elimination on more than 90% of goods over time. These products range from plastics and mineral fuel to miscellaneous food preparations and beverages, and other chemical products. The RCEP is supporting Asia's growth as a global manufacturing hub.

According to statistics from the United Nations, Asia's industrial value-add rose significantly from $2.7 trillion in 2000 to $9.4 trillion in 2019, while Asia's share of global industrial value-add expanded from 35.9% to 50.9%. China's share rocketed from 6.4% to 24.9%, while the share of ASEAN also went up from 2.8% to 4.8%. The 15 RCEP members had a combined share of 40.2% by 2019, compared with 29.4% in 2000. Data from Chinese Customs shows that in 2021, imports and exports between China and the other 14 RCEP members totaled RMB 12.07 trillion ($1.73 trillion), up 18.1% year-on-year and accounting for 30.9% of China's total foreign trade value. Thanks to liberalization under the RCEP, further growth is expected, creating tremendous prospects for the plastics and rubber industries, according to Adsale.

A brighter future through innovation

In April 2023, Chinaplas will return to Shenzhen, gateway city to the GBA and RCEP as well as the thriving innovation and technology hub of Southern China. Upgraded technologies and ever-smarter solutions on display at Chinaplas 2023 can help industry to take advantage of emerging opportunities in the RCEP and GBA and react in real time to rapidly changing markets.

More than 3,900 exhibitors are anticipated at Chinaplas 2023, including eight country pavilions featuring companies from Austria, France, Germany, Italy, Japan, Switzerland, the United Kingdom, and the United States, and a regional pavilion highlighting products and services from Taiwan. Eighteen themed zones in the Machinery and Chemical & Raw Materials halls cover injection molding, extrusion machinery, 3D printing, recycling, smart manufacturing, bioplastics, composites, high-performance materials, and thermoplastic elastomers and rubbers, among other technologies.

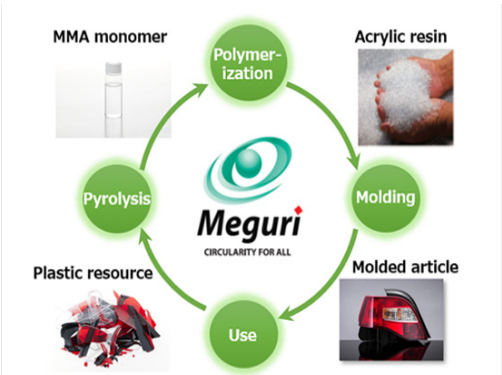
Chinaplas has become a preferred platform for the plastics and rubber industries to debut new products and solutions and showcase innovative materials and machinery technologies, according to Adsale. In addition to leading-edge technologies and practical solutions from all over the world, Chinaplas provides a platform for domestic companies growing in the spirit of "professionalization, refinement, specialization and innovation." Buyers from numerous industries, including automotive, building & construction, electronics & electric, medical, new energy, packaging, recycling, and sports & leisure, will find a tremendous selection of products and services relevant to their industrial needs.

Several concurrent events, including seminars on the circular economy, smart manufacturing, and design innovation, are being planned. Stay tuned for details.

Online pre-registration for Chinaplas 2023 is now open until April 11, 2023. Visitors can enjoy an early bird discount for a four-day pass at RMB 50 ($7.50) instead of RMB 80. Pre-registered visitors will receive their visitor eBadge or confirmation letter in advance for fast admission. Click here to pre-register.

Source: Plastics Today

Sumitomo Chemical Completes Construction of Acrylic Chemical Recycling Pilot Plant



Japan's Sumitomo Chemical has constructed a new pilot facility for chemical recycling of acrylic resin (polymethyl methacrylate; PMMA) at its Ehime Works in Niihama City, Japan. Samples of chemically recycled methyl methacrylate or MMA monomer produced in this facility and acrylic resin made from the monomer will become available in spring of 2023. The company will accelerate the development of a circular system for acrylic resin that integrates all steps — from collection of used acrylic resin to recycling of the collected resin into a monomer material to use of the material as products.

Acrylic resins, which possess the highest level of transparency among plastics as well as superior weatherability and processability, are used in a range of applications, such as automobile tail lamps, home appliances, water tanks, liquid crystal displays (LCDs), and protective partition panels to reduce the spread of potentially infective droplets. Meanwhile, as plastics are made from fossil resources, there is an urgent need to reduce greenhouse-gas (GHG) emissions generated across the entire process, from production to disposal of plastics, as well as to promote the recycling of used plastics as resources.

Sumitomo Chemical teamed up with Japan Steel Works (JSW) to develop a technology for pyrolyzing acrylic resin and recycling it with high efficiency into MMA monomer, which is a raw material for acrylic resin. The new pilot facility Sumitomo Chemical has built at its Ehime Works is equipped with a JSW twin-screw extruder. Sumitomo Chemical will validate the technology to recycle acrylic resin at a high-quality level and work on scaling the production process. The recycled MMA monomer will have the same quality as virgin MMA monomer but it will generate at least 60% fewer GHG emissions over its entire life cycle, according to Sumitomo Chemical.

The company has also set out to build a circular system for acrylic resin. It will collect acrylic plastic scraps and used acrylic resin from long-time business partner Nippura Co. Ltd. as well as from major home appliance manufacturers, while developing a customer base for acrylic resin made from the recycled MMA monomer. Going forward, Sumitomo Chemical will step up collaboration with partners in other industries on collection, recycling, and markets to accelerate the development of a circular system for acrylic resin.

In September 2022, Sumitomo Chemical launched the Meguri brand for plastic products made with recycling technology as part of its effort to contribute to building a circular economy. The Meguri brand is put on products that meet certain criteria, such as GHG emissions, that the company has established. The chemically recycled MMA monomer produced in the newly constructed pilot facility and acrylic resin made from the monomer will be the first Meguri brand products.

In the future, acrylic resins obtained using recycling technology will be sold as Sumipex Meguri. In addition, acrylic resin sheets made via material recycling technology, handled by wholly owned subsidiary Sumika Acryl Co. Ltd., will also be sold under the Meguri brand. Sumika Acryl Sheet Meguri is scheduled to be launched in January 2023.

Source: Plastics Today

Interpack 2023 To Return With A Bang After Six Years

Interpack 2023 has a made a grand comeback on a bigger scale after six years — the biggest international overview of the market, thereby more than earning its motto “simply unique”. The organisers Messe Dusseldorf organised a press conference and curtain raiser at JW Marriott, Mumbai recently to announce the highlights of Interpack 2023 which is scheduled from 4 to 10 May 2023. The show boasts to have sold out with 2,700+ exhibitors in 18 halls. Mr Thomas Schlitt, Managing Director, Messe Düsseldorf India, welcoming the attendees said that Circular economy, resource management, digital technology and product safety will be the hot topics at the show.

Mr. Thomas Dohse, Global Portfolio Director –Processing and Packaging, Messe Düsseldorf GmbH, speaking next said that Interpack is the place where the industry creates the future at a global level. “You cannot afford not to attend Interpack after six years. We are already fully sold out, every single square meter is booked and we have a huge waiting list. This is a good sign that the participants believe in the future of trade shows and in the future of packaging and processing,” he said. Around 2,700 companies from around the world will meet in in 18 halls, to present cutting edge technologies and packaging trends from along the entire value chain, demonstrate chances for growth and respond to the challenges of the industry.

Dohse said that the halls feature a custom concept-based processing and packaging systems on the core target groups food, beverages, confectionery and baked goods, pharmaceutical products, cosmetics, non-food and industrial goods to help visitors. Around 20 percent of visitors to Interpack are especially interested in solutions for industrial goods. Interpack 2023 will have a few specials — there will be presentations on seven themed days, and for the first time at Interpack, the European co-packing association will have a joint presentation on contract packaging. Dohse informed the audience that the Save Food initiative will restart at Interpack 2023, which will also have a WPO alliance lounge where the WPO awards will be announced.

Mr. Richard Clemens, Managing Director. VDMA shared global trends in packaging. He said, “After a decline of 7% to a value of USD 41 billion in 2020 due to the Covid-19 pandemic, international trade in food processing and packaging machinery has picked up significantly in 2021. The value is USD 44 billion which is an increase of 6% as compared to the previous year.” This, Clemens said, translated into sales of four billion tons of packaging (equal to the size of 133 pyramids). This production is expected to rise to 5.3 billion tons.

According to Euromonitor international forecasts global sales of packaged food will increase by a total of 14 percent to 932 million tons in the period 2021 to 2026, he said. However, demand is developing differently from region to region. in developing regions and countries with lower per capita consumption, demand will increase at an above-average rate. This is particularly the case in Asia, the Middle East and Africa. Here, but also in Latin America and Eastern Europe, more and more consumers are increasingly buying high-quality and hygienically produced and packaged products. In saturated markets with already high per capita consumption of packaged food, demand also remains stable at a high level.

Countries in Asia account for 34 percent of global consumption of packaged food. Here, demand is expected to increase by 20 percent between 2021 and 2026, to 337 million tons in 2026. Within the region, China is the largest sales market for packaged food with a share of almost 50 percent, followed by India with a share of 29 percent. Indonesia is third, followed by Japan and South Korea. Double-digit consumption growth is expected in China, up 13 percent, he said.

After six years and a forced absence during the pandemic, the world's biggest trade fair for the packaging industry and related process industries will be up and running again from May 4 to 10 2023. The previous edition, Interpack 2017, was attended by 2,866 exhibitors from 55 countries and 1,708,999 visitors.

Source: Packaging 360

Sabic Enables Scientex Group In Developing World's First PP Flexible Food Packaging Using Post Consumer Recycled (PCR) Ocean Bound Plastic

Premium brand instant noodle packaging made with 30% certified PCR plastic content launched in major retail outlets in Malaysia

This value chain collaboration enables ocean bound plastic (OBP) to be successfully brought back into circular material stream for conversion to high-quality flexible packaging

SABIC, a global leader in the chemical industry, collaborates with Scientex in the packaging value chain to enable the manufacturer to develop material for the world's first flexible food packaging made based on advanced recycled OBP, using SABIC® certified circular polypropylene (PP). The material is being used in a premium brand noodles packaging sold in Malaysia.

"We are proud to offer our customers circular solutions to reduce plastic waste that could otherwise end up in our rivers and oceans," says Abdullah Al Otaibi, General Manager, Engineering Thermoplastic & Market Solutions Business Unit for Petrochemicals at SABIC. "This flexible food packaging containing OBP connects with our TRUCIRCLE™ program of circular solutions designed to help protect our planet."

OBP is abandoned plastic waste found in areas up to 50 km inland from waterways that may eventually be washed into the ocean by rainfall, rivers or tides.

"Thanks to this highly efficient collaboration with SABIC, we are able to bring the world's first advance recycled flexible PP food packaging to the Asian market, using circular OBP," states Paul Ng Kok Leong, Head of BOPP Film Division, Scientex Group. "This successful initiative demonstrates the feasibility of tackling the plastic waste issue through dedicated value chain collaborations and sets a milestone in shaping a circular plastics economy in Malaysia and across South East Asia."

The OBP used in the project is recovered and converted to pyrolysis oil in an advanced recycling process. SABIC uses this oil as an alternative feedstock to produce certified circular PP polymer for further processing to BOPP film.

Scientex then manufactures and prints the noodle packs from this film. The entire chain from the management of the collected OBP to the final packaging is seamlessly accredited under established certification regimes.

With a mass balance accounted OBP content of 30%, the certified circular PP from SABIC performs the same way as incumbent fossil-based virgin PP and could be used as a direct drop-in alternative in this flexible food packaging application, without the need to change its existing assets and processes.

SABIC's certified circular polymers form part of the company's TRUCIRCLE portfolio and services for circular solutions. The offering also includes design for recyclability, mechanically recycled products, certified renewable polymers from bio-based feedstock and closed loop initiatives to recycle plastic back into high quality applications and help prevent valuable used plastics from becoming waste.

Source: Packaging 360

Mr. Ashok Chaturvedi, CMD, UFlex Limited, Releases Report on Recyclability of Multi-Layer Mixed Plastics (MLP) At An Industry Event on Sustainable Packaging

Mr. Ashok Chaturvedi, Chairman and Managing Director, UFlex Limited, recently released a report on recyclability of Multi-Layer mixed Plastic (MLP) waste at an event organized and hosted by Plastic Packaging Research and Development Centre (PPRDC).

Plastics Packaging Research and Development Centre (www.pprdc.in) is a non-profit research and development center established by the Multilayer Plastics Films Sanitation Trust. PPRDC recently organized a one-day round-table thematic discussion on "Sustainable Packaging and EPR Regulations" in Noida. The event agenda included a briefing by the PPRDC executives on Extended Producer Responsibility (EPR) norms and best practices on building a circular economy.

On this occasion, Mr. Ashok Chaturvedi, CMD, UFlex Ltd., released a study report on Recyclability of Multi – Layer mixed Plastics.

"At UFlex, we have always taken the lead in developing sustainable packaging solutions for our clients and for facilitating discussions with brand owners and regulators around recyclability of multi-layer mixed plastic waste. As a global leader in packaging, we have made significant investments in recycling facilities across our global locations to demonstrate the various applications of MLP waste. UFlex runs an advanced injection moulding facility at its Noida site and this was established to recycle granules and to demonstrate various possibilities to the moulding industry. Today, decorative, functional, engineering parts, household and office products, and hundreds of other articles are being manufactured with recycled granules at UFlex's recycling facilities", said Mr. Ashok Chaturvedi, CMD, UFlex Limited at the launch of the study report.

"This report will help brand owners and recyclers to appreciate the technical processes, possibilities, and financial returns on recycling MLP waste. This will help brand owners fulfil their EPR responsibilities and play an active role in keeping plastic waste out of landfills. In a country like India, this could provide an impetus to MSMEs to establish recycling facilities and unlock the value and potential of plastic waste. UFlex is more than willing to share best practices from their own recycling operations that have been running successfully for more than two decades", Mr. Chaturvedi added.

As part of the roundtable discussion, members of PPRDC's advisory council and industry speakers discussed a wide-range of topics including environmental problems brought on by the careless disposal of plastic waste, the role of the organised sector in the management of plastic waste, leading India to a circular economy – road map, and the challenges faced by brand owners in complying with EPR guidelines, amongst others.

Notable industry speakers included Mr. Mihir Banerjee, Secretary General, PPRDC & BIS & ISO Plastics Sectional Committee member, Prof. (Dr.) S. K. Nayak, VC,

Ravenshaw University (Former DG-CIPET), Mr. Swapan K Ray – Hon. Secretary Indian Centre for Plastic in The Environment, PPRDC Council member, Ms. Esha Sar, Chief Advisor South Asia, Alliance to End Plastic Waste, Mr. A Garg, A A Garg & Company and Consultant – EPR, Dr. Anomitra Chakravorty – KPS consultant & Impex Pvt. Ltd. and PPRDC Council member, Dr. Anup K. Ghosh, Professor Emeritus, Dep. Of Material Science and Engineering, IIT, Delhi and PPRDC Council member, Mr. Rajeev Dwivedi, Director TTRC BIS & ISO – Plastics Sectional Committee member and PPRDC Council member, Mr. Sumit Basu, Chief General Manager (Petrochemicals), Indian Oil Corporation Limited, and others.

Source: Packaging 360

Trade agreements with Australia, UAE to help boost exports, say export promotion councils

The India-Australia Economic Cooperation and Trade Agreement, which will come into force from December 29, is expected to create 10 lakh jobs, and lift Indian merchandise exports to Australia by $10 billion.

Various export promotion councils (EPCs) on Wednesday lauded the trade agreements signed by India with the United Arab Emirates (UAE) and Australia, saying the pacts will help the country in boosting exports by granting preferential access to those markets for Indian products.

Engineering Exports Promotion Council (EEPC) said that the country had benefited from preferential market access provided by the UAE on more than 97% of its tariff lines which account for 99% of Indian exports to the region in value terms.

Eastern regional chairman of EEPC, B.D. Agarwal, said at an interactive session here that this trend had emerged after signing of the India–UAE Comprehensive Economic Partnership Agreement (CEPA) which became effective from May, 2022.

The India-Australia Economic Cooperation and Trade Agreement (ECTA), which will come into force from December 29, is expected to create 10 lakh jobs, and raise Indian merchandise exports to Australia by $10 billion, he said.

According to him, the ECTA will also allow zero duty on 100% tariff lines, and provide cheaper raw materials to steel and aluminium sectors. The trade pact will also raise the bilateral trade volume to $45-50 billion in five years.

Bipin Menon, development commissioner, Noida SEZ, said that India is the sixth largest trading partner of Australia.

India's bilateral trade in goods and services with Australia rose 106.5% to $25.04 billion so far in the current financial year over the previous fiscal, he said.

The CEPA with the UAE is also expected to increase the total value of bilateral trade in goods to over $100 billion and in services to more than $15 billion within five years, he added.

Rowan Ainsworth, consul general of Australia in Kolkata, said that ECTA will help Australian manufacturers strengthen their supply chain resilience, and enhance trade diversification while also connecting the two complementary and stable economies.

Deputy DGFT, Kolkata, Anand Mohan Mishra, said that in recent years, the India-Australia bilateral relationship had charted a new trajectory of transformational growth. The trade relationship facilitated through ECTA would open a new chapter in the India-Australia association thereby enhancing India's merchandised exports significantly.

Regional chairman of Plastics Export Promotion Council (PLEXCONCIL) Lalit Agarwal said that the export potential for plastics from India stands at $5 billion to the UAE and $6 billion to Australia. Under the India-UAE CEPA, import duty applicable in the UAE on 260 plastic products has been reduced from 5% to zero with immediate effect.

Under the India-Australia ECTA, import duty applicable in Australia had been reduced on all tariff lines for plastic products with immediate effect which would act as a great booster for outbound shipments, he added.

Source: The Hindu

TN retains investment destination tag in 2022 with Rs 1 lakh crore investments

Often billed as a favoured investment destination, Tamil Nadu managed to garner over Rs 1 lakh crore investments committed by various companies in 2022, a year that brought both challenges and opportunities to the southern state. It faced the challenge arising out of various issues like Russia-Ukraine conflict or the suspension of the production at US automaker Ford near here among others.

This year, Tamil Nadu signed memoranda of understanding with over 60 companies which committed investments of Rs 1.25 lakh crore that would generate around 75,000 new jobs.

Chief Minister M K Stalin has been reaching out to investors at various platforms to make Tamil Nadu become the most attractive investment destination in South Asia and endeavour towards 'Made in Tamil Nadu' products reaching all parts of the world.

The government also maintained Tamil Nadu was the only state in the country to post a 'positive growth' during Covid-19 enforced lockdown period while other states reported negative growth.

According to the Industry department, TN is the second largest state economy in India accounting for 9.47 per cent of the GDP in FY 2020-21.

In 2021-22, the economy saw a rebound with the Gross State Domestic Product (GSDP) increasing from Rs 19.02 lakh crore to Rs 21.79 crore. The government, besides its many policy initiatives, announced establishing the Rs 20,000 crore greenfield airport at Parandur with an aim to give a fillip to the state's economy. It can handle an annual capacity of 10 crore passengers. The airport expected to be operational by 2029-30 would have two runways, terminal building, taxiways, apron, cargo terminal and other required amenities.

To reach the ambitious USD 1 trillion economy by FY 2030-31, the government has drawn up several plans which include attracting Rs 23 lakh crore investments in the manufacturing sector and creation of 46 lakh new jobs.

To achieve the USD 1 trillion economy, the manufacturing sector must take the centre stage for economic development, an official said.

Tamil Nadu is a manufacturing hub in the country due to significant presence in sectors like automobiles and auto-components including electric vehicles, textiles and wearing apparel, leather, chemicals including rubber and plastic, electronics, machinery and fabricated metal products, the official said.

On the exports front Tamil Nadu accounted for 8.40 per cent of the country's total exports with Rs 1.90 lakh crore of shipment made overseas.

The Guidance Bureau, a nodal agency to boost investments promotion in the state, has been enhancing the single window portal to provide a seamless experience for investors. The government has been working on new policies including life sciences promotion policy, research and development, leather and footwear policy and also upgrading the existing electric vehicle policy to accelerate the growth of these sectors.

Some of the major projects ensured by the government include the large scale furniture park, one of its kind, which is expected to come up in SIPCOT industrial park in Tuticorin at an estimate of Rs 1,000 crore.

Another investment milestone achieved in 2022 was the Rs 3,500 crore investment commitment from Dubai-based Lulu Group.

An E-vehicle park and future mobility park are also on the development stage with SIPCOT establishing the former in over 300 acres of land in Manallur at an investment of Rs 167.30 crore, the official said.

To support environmentally, sustainable and modern transportation solutions, SIPCOT also planned to establish a Future Mobility Park on a 300 acre land in Shoolagiri, Krishnagiri district at an outlay of Rs 300 crore.

Source: The New Indian Express

Toy exports jump over 200% from FY15, imports drop nearly 70%: MoS MSME Bhanu Pratap Singh Verma

The export of toys from India has increased by around 240 per cent from $96.17 million in the financial year 2014-15 to $326.63 million in FY22 while imports have dropped by approximately 67 per cent from $332.55 million in FY15 to $109.72 million in FY22, according to the latest data shared by the minister of state for MSMEs Bhanu Pratap Singh Verma in a written reply in the Lok Sabha on Thursday.

Verma said the government has taken several steps to restrict the import of sub-standard and unsafe toys and to promote the domestic toy industry. "As a result of various steps taken by the Government, the volume of import of toys into the Indian market has shown a consistently decreasing trend," he added. Importantly, to promote domestic toys, the government had formulated a comprehensive National Action Plan for Toys to promote the designing of toys based on Indian values, culture and history.

Among other measures taken were increasing the Basic Customs Duty (BCD) on toys (HS code 9503) from 20 per cent to 60 per cent in 2020, mandatory sample testing of each import consignment to curb the import of sub-standard toys, amending the Quality Control Order for Toys on in December 2020 to exempt goods and articles manufacture and sold by artisans registered with Development Commissioner, Ministry of Textiles, registered proprietors, and authorized users of a product registered as Geographical Indication by the Office of Controller General of Patents, Designs and Trademarks.

The minister said to promote toy MSMEs, the MSME ministry is implementing various schemes for providing credit support for new enterprise creation, technology upgradation, skill development and infrastructure development. Moreover, "a total of 19 toy clusters have been approved under the scheme (Scheme of Funds for Regeneration of Traditional Industries (SFURTI) benefitting 11,749 artisans with an outlay of Rs 55.65 crore."

Apart from the existing schemes, the government is also working to extend Rs 3,500 crore production linked incentive (PLI) scheme to BIS-compliant toys to make domestic manufacturing globally competitive, attracting investments and enhancing exports, news agency PTI had reported citing an official earlier this month. According to the official, measures such as the introduction of quality control orders and increasing customs duties from 20 per cent to 60 per cent helped in cutting down sub-standard imports and promoting domestic manufacturing in the country.

Source: FE

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
- Basic Website Development Assistance *

*Nominal Charges Applicable

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

Sr. No	Name of the Company	Address	City	Pin	State	Director Name	Email
1	3N Composite Products Llp	B-413, Kanakia Western Edge 2, Western Express Highway, Ehind Metro Store, Borivali East,	Mumbai	400066	Maharashtra	Nitin Goenka	3n@3ncomposites.com
2	Alpine Lifecare Llp	Parshwanath Business Park, Opp Prahladnagar Garden,	Ahmedabad	380015	Gujarat	Nisarg Hasmukhbhai Vora	yash@zinzuwadiaco.com
3	Ambica Opticals & Trading	4500/2 Shri Shankar Vijay Saw Mill Compund, Saijpur Bogha,	Ahmedabad	382345	Gujarat	Amit Ishwarlal Nebhwani	amitnebhwani@yahoo.com
4	Ambit Transmission Products Private Limited	A-37, Ground Floor, Phase - 1 Vivek Vihar	Delhi	110095	Delhi	Amit Singhal	ambittransmission06@outlook.com
5	Ample Fabrics	Survey No. 562, At. Lajai ,Bhimnath Mahadev Mandir Road,Tal - Tankara Dist - Morbi	Morbi	363650	Gujarat	Shailesh Amrutiya	amplefabrics@gmail.com
6	Arce Polymers Private Limited	Plot No. 66, Phase-1,,Ida,Jeedimetla,	Hyderabad	500055	Telengana	Rajan Kesavan Acharya	pm@arcepolymers.com
7	Austrol Nonwoven	Plot No. 29 To 36, R S No. 198 To 201, Chibhda Kalawad Road, At-Balsar	Rajkot	360024	Gujarat	Krunal Gangdasbhai Limbasiya	austrolnonwoven@gmail.com
8	Baba Flooring Private Limited	Office No. 11, 4th Floor Alankar Plaza, Central Spine, Vidhyadhar Nagar,	Jaipur	302039	Rajasthan	Shree Gopal Goyal	chairman@babaquartz.com
9	Bagori Polymers Private Limited	C/O Singhaniya Fashion Shop No. 9,Sanskrutik Sankul, Zasi Rani Sq.	Nagpur	440012	Maharashtra	Mohit Singhaniya	mohitytl@gmail.com
10	Basell Polyolefins India Private Limited	B-303-305 Delphi 3rd Floor, B-Wing Hiranandani Business Park	Mumbai	400076	Maharashtra	Pooja Shah	lakshman.iyer@lyondellbasell.com
11	Cubicle India	Krishna Heights Chikkal Dongri Road,Krishna Heights Chikkal Dongri Road,	Mumbai	401303	Maharashtra	Suman Verma	sumanverma@cubicleindia.co.in
12	Diza Nonwoven Llp	Survey No - 34/1 P 1,Lutavadar,	Morbi	363641	Gujarat	Rajubhai Bhimjibhai Manvar	sales@dizanonwoven.com
13	F.Robin Polymers Private Limited	6/600, Chinnupatti,Reddiyapatti Post,Batlagundu,,Nilakottai Tk Dindigul District,	Dindigul	624202	Tamil Nadu	Robin	directorfrobingroup@gmail.com
14	Galaxy Packing Industry Private Limited	No 1/111, Kaniampoondi,, Avinashi T.K, Tirupur, Vanjipalayam Post,	Tiruppur	641663	Tamil Nadu	David Rajaendran Ebenezer	ebi@galaxypacking.com
15	Gayathri Hair Exports	2-51, Near Anjaneya Swamy Temple,Thupakulagudem, Vadapalli,-Kovvur Mandal	Godavari West	534350	Andhra Pradesh(New)	Marisetti Veera Venkata Satya Vara Prasad	gayathrihair@yahoo.com
16	Golden Plastopack	Gat No.293/A/2 (14.10 R) Tasgaon Phata, Near Acc Godown, Pandharpur Road, Tanang,	Sangli	416410	Maharashtra	Sakib Nasir Bagwan	bagwanasim@gmail.com

17	Indotag Solutions Limited	5, P-023, , Kasna Industrial Area, Greater,-Noida, Gautam Buddha Nagar, Ut	Uttar Pradesh	201308	Uttar Pradesh	Sanjay Goel	zbpss14@gmail.com
18	J.R.Tape Products Private Limited	Lot No.A3/3,Road No.10,Sachin Udhyognagar Sahkari Mandli, Hojiwala Indl.Estate Sachin,	Surat	394230	Gujarat	Ankit Khurana	multipactapes@gmail.com
19	Jana Human Hair	Village-Neturiya, G.P.Choukhali.P.S.Chandipur, Block-Nandigram-Iii,	Dist-Purba Medinipur,(East)	721633	West Bengal	Manimala Jana	sritanujana@gmail.com
20	Jubilant Agri And Consumer Products Limited	Plot No.1 A, Sector 16 A Institutional Area ,Gautam Buddha Nagar,	Noida	201301	Uttar Pradesh	Prem Chand Tanwar	ajeet_chauhan@jubl.com
21	Kesaria Rubber Industries Private Limited	3rd FLOOR, C-4 NEW COTTAGE ROAD ADARSH NAGAR EXTENSION	Delhi	110033	Delhi	Kimti Lal Jain	exports@kesaria.com
22	Khaza Enterprise	Bhagawanour, Tamluk, Medinipur East		721601	West Bengal	Sk Habibur Ali	khazahabib786@gmail.com
23	Lanxess Performance Materials (India) Private Limited	Lanxess House Plot No. A 162-164,Road No. 27 MIDC Wagle Estate Thane (West)	Mumbai	400604	Maharashtra	Balaram Govind Khot	ponneth.asokan@lanxess.com
24	Live Organics Private Limited	U.G. 31, Sunrise Tower, 579, M.G. Road,	Indore	452001	Madhya Pradesh	Shashank Vaidya	shashankvaidya@hotmail.com
25	Modern Pipes	40-27-6/5-1 Part B, 1st Floor, RS.NO.2324,Pinnamaneni Polyclinic Road,	Vijaywada	520010	Andhra Pradesh(New)	Syed Riyaz	pipes.modern@gmail.com
26	One Roof Exporter	Ravi Talkies, 550, Jin Compound, , Gandhi Road, Opp Ravi Cinema	Vadodara	391310	Gujarat	Keyun M Patel	oneroofexporter@gmail.com
27	Palvi Masterbatches Private Limited	Plot No 330,Gidc Manjusar,	Vadodara	391775	Gujarat	Riteshkumar Parekh	palvimasterbatchespvtltd2022@gmail.com
28	Parl Polytex	Village Chandesra Udaipur Main Road, Mavli Contact No: 919414166599	Udaipur	313201	Rajasthan	Lalita Devi Chaturvedi	
29	Ranjit Maity	Dag No-301,Dakshin Para P.O-Krishnapur (E.C)	Krishnapur	700102	West Bengal	Ranjit Maity	maityranjit038@gmail.com
30	Rose Plastic India Private Limited	Gat No.850-853,857,858,862-864,869,871,875-879, Pune Bangalore Highway, Village Pargaon, Taluka Khandala	Satara	412802	Maharashtra	Preetham Arayanveetil Patterkandy	exim@rose-plastic.in
31	Rumaxo Industries Private Limited	Shed No. 14 Spf Mill Compound, Opp Kewal Kanta Rakhiyal,	Ahmedabad	380023	Gujarat	Adeshkumar Kanaiyalal Patel	rumomaindpl@gmail.com
32	Setej Plastic Private Limited	D 59, Midc,Ajanta Road,	Jalgoan	425003	Maharashtra	Mahesh Shakralal Chhatriwala	setejplastic@gmail.com
33	Solar-Speciality Films Private Limited	F 2 B & C Riico Industrial Area, Nimbahera	Chittorgarh	312601	Rajasthan	Priyank Naredi	

34	Srijan Human Hair	Kulapara, Chandipur, Tamluk,Medinipur,		721633	West Bengal	Sangita Pradhan Sasmal	srijanhumanhair@gmail.com
35	Supreme Polyweave Private Limited	326, 3rd Floor ,Kewal Industrial Estate, Senapati Bapat Marg, Lower Parel -West	Mumbai	400013	Maharashtra	Rajgopal Bang	oceanfreight@bangdataforms.com
36	Swayam Poly Plast Private Limited	Shed No.5,S. No.197/3/4,Ground Floor,Ranhathvas,Shahwadi,Village-Narol	Ahmedabad	382405	Gujarat	Shivprakash Kunjbihari Agarwal	swayampolyplast31@gmail.com
37	Thulson Polymers	630/1a, Thulson Polymers,Palamarathu Patti Road,Sirumalai Pirivu	Sirumalai Pirivu	624003	Tamil Nadu	Rajendran Thulasiram	thulsonpoly@gmail.com
38	Travozet Industries Private Limited	35/42 West Punjabi Bagh Delhi West Delhi Punjabi Bagh,	West Delhi,	110026	Delhi	Damini Gupta	travozetindustries@gmail.com
39	Universal Bags	Chhatral Post Office, Part No.101, Block No 28,Chhatral Ambavpura Road, Sh 41, Gidc Chhatral, Chhatral	Gandhinagar	382729	Gujarat	Abhishek Shankarlal Agrawal	universalbags07@gmail.com
40	Unomax Stationery Private Limited	Survey No. 597 -1 597-1c Bulding No. 1 , Somnath Road, Dabhel,	Daman	396210	Dadra & Nagar Haveli and Daman & Diu	Pankaj Ghisulal Rathod	nirmal.maroo@unomaxpens.com
41	V&W Biotech Private Limited	Flat No A4, 1305, Akshar Elementa, Tathawade	Pune	411033	Maharashtra	Sandeep Vanjari	sandeep@vwbiotech.com
42	Vishakha Metals Private Limited	1st Floor, Ashirwad Paras Corporate House No.2, Opp. Krishna Bunglows, Corporate Road, Prahladnagar	Ahmedabad	380015	Gujarat	Narayanan Balakrishnan	bharat.patel@vishakhapolyfab.com