



# Plastic Tomorrow

BI-MONTHLY MAGAZINE, BI-LANGUAGE ENGLISH & GUJARATI PLASTIC INDUSTRIES PERIODICAL.

SPECIAL ISSUE FOR  
**PLASTINDIA**  
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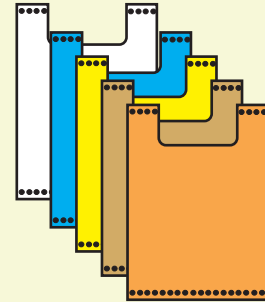
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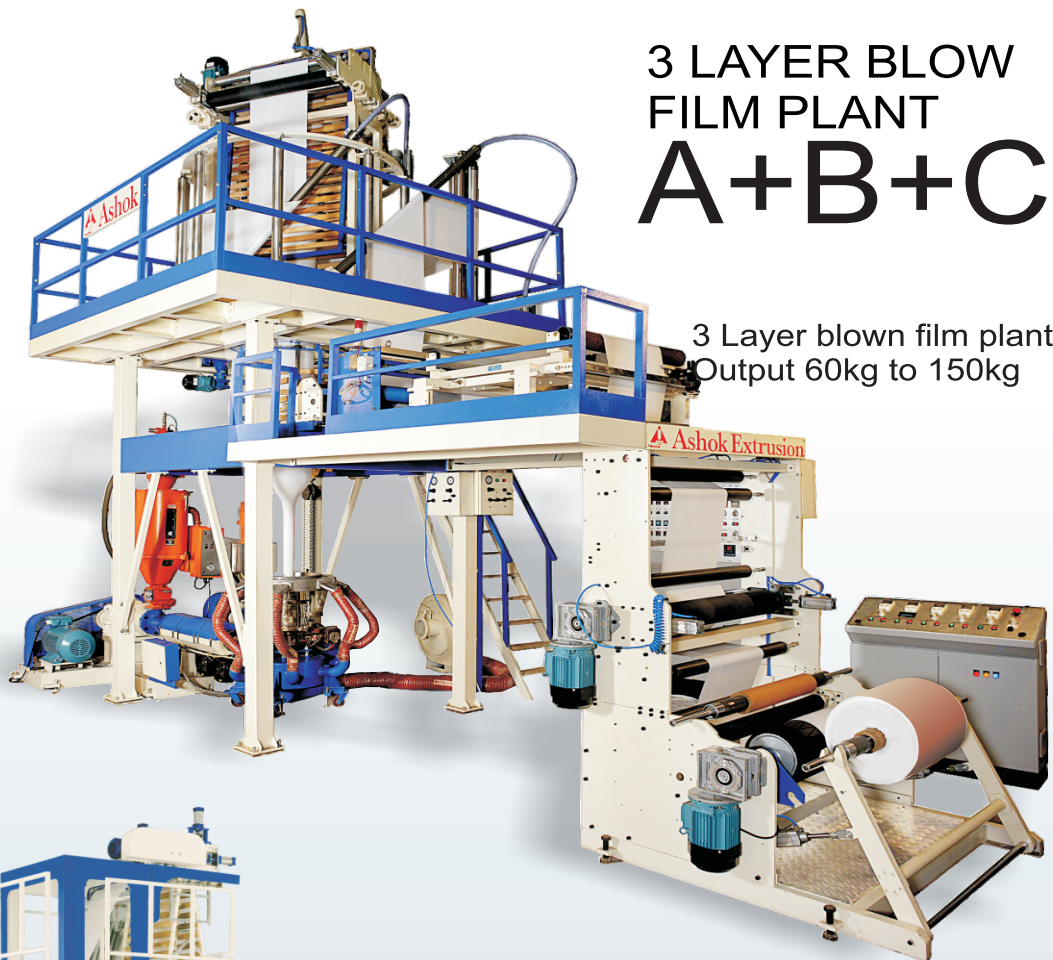
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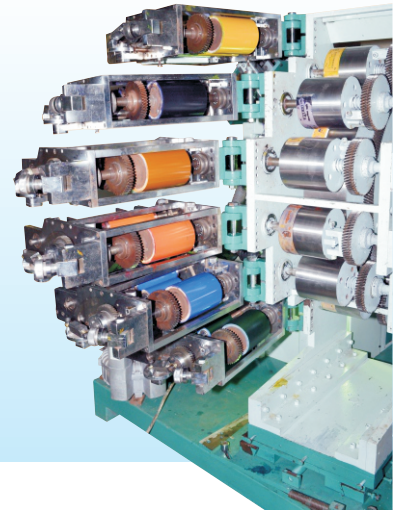
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*From Editor Desk***Dear Readers**

## **GREETINGS FROM TEAM PLASTIC TOMORROW**

First of all, I would like to thank our Readers, Advertisers and Well Wishers for the endless support and faith entrusted on us in the year gone by and look forward to your continued patronage! We wish you all a very happy, healthy, wealthy and peaceful 2018.

### **INDIAN PLASTICS INDUSTRY ALL SET TO ZOOM**

Let me tell you all that Indian Plastic Industry is all set to surge. Due to increasing consumption of plastic products, plastic manufacturers are optimistic about the growth prospects of the sector in FY18. According to industry sources, the Rs 1.2 lakh-crore polymers sector will grow 10-12 per cent in FY18 and generate as many as 5 lakh new jobs.

Plastics processing industry has grown at a CAGR of 10 percent in volume terms from 8.3 MMTPA in FY10 to 13.4 MMTPA in FY15 and is expected to grow at a CAGR of 10.5 percent from FY15 to FY20 to reach 22 MMTPA. In value terms, the plastic processing industry has grown at a CAGR of 11 percent from Rs 35,000 crore in FY '05 to Rs 100,000 crore in FY15.

Today, the plastic processing sector comprises over 30,000 units involved in producing a variety of items, gaining notable importance in different spheres of activity with per capita consumption increasing. The plastic processing industry has the potential to contribute in bringing foreign investments and thus India's vision of becoming a manufacturing hub.

The Indian plastic industry is making significant contribution to the economic development and growth of various key sectors in the country which includes automotive, construction, electronics, healthcare, textiles, and FMCG. The developments in the plastic machinery sector are coupled with developments in the petrochemical sector, both of which support the plastic processing sector. This has facilitated plastic processors to build capacities for the service of both the domestic market and the markets overseas.

The growth rate of the Indian plastics industry is one of the highest in the world, with plastics consumption growing at 16 percent per annum (compared to annual 10 percent in China and around 2.5 percent annually in the UK).

The Government of India is taking every possible initiative to boost the infrastructure sector with investments of Rs 25 lakh crore over the next 3 years in roads, railways and shipping infrastructure. Investments in water and sanitation management, irrigation, building & construction, power, transport and retail have been encouraged. Plastics play an important role in these sectors through various products like pipes, wires & cables, water proofing membranes, wood PVC composites and other sectors. Consequently, higher investments in these sectors will drive the demand for plastics.

The Plastics Export Promotion Council (PLEXCONCIL) is confident that India's plastics exports will cross USD 8 billion mark in FY18 due to the positive growth trend. "The current trend in India's plastic exports seems highly encouraging and we are confident of crossing plastics exports to cross USD 8 billion mark in FY18 showing a 6 per cent increase from USD 7.56 billion in FY17. India's plastic exports to United States, the largest destination, continues to tread higher and nearing the coveted USD 1 billion mark," PLEXCONCIL chairman Pradip Thakkar told in his statement.

India's leading exhibition on plastics will surely boost the Indian Plastic Industry, The 10th Edition of Plastindia will be held in Ahmedabad, Gujarat from 7th February 2018 to 12th February 2018. A massive 125,000 sq. Mtrs. of total gross area set to facilitate global growth with around 2000 of the world's finest plastics businesses from across the planet to showcase their products and technology. Over 2,00,000 Who's who of the plastics industry is expected to visit the mega show Plastindia 2018. Plastindia 2018 will also held concurrent events like PROPLAST, International Conference, Plasticcon Awards & Gala Networking Dinner.

Growth segments like Automobiles, Healthcare, Packaging, Infrastructure, Agriculture, Telecom, New & Renewable Energy and the emerging segments like Plastic Composites, Sports, 3-D Printing will all be here at PLASTINDIA 2018. For any significant player in the Plastics paradigm, the next destination is the world's fastest growing major economy – INDIA.

As always, the foreign Exhibitors have been very quick in booking their space at PLASTINDIA 2018. With the much hyped 'Make In India' - a Government of India initiative, more and more foreign investors, leading multinationals as well as new and emerging international players are keen to do business with India.

Hoping for a very prosperous year to all the Manufacturers, Traders, Retailers and Suppliers, Best of Luck to all the Participants of PLAST INDIA-2018.

*Best Regards***Dinesh Shah** Editor in Chief**Plastic Tomorrow**



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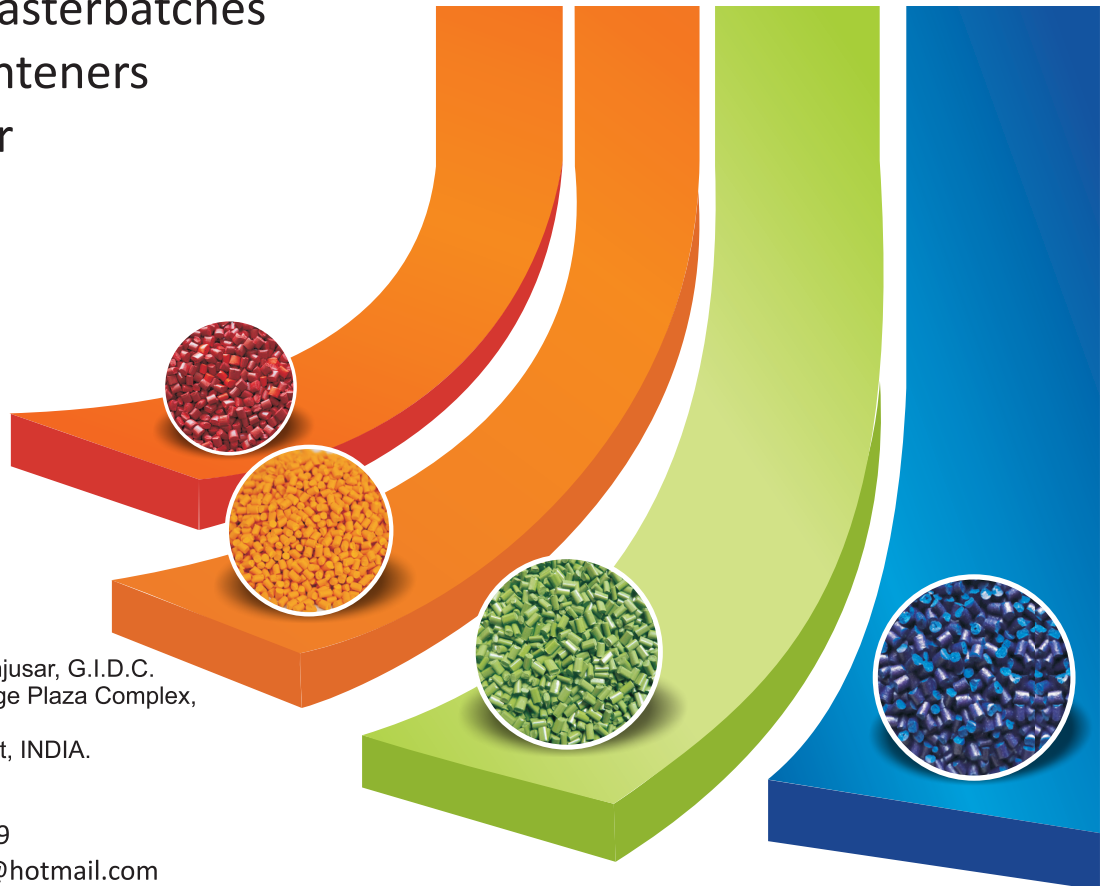
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## Clariant Healthcare Packaging site in Cuddalore, India now operational

- Newest India facility serves Indian pharmaceutical market and beyond
- Capacity provides added back-up for pharma BCP requirements
- Facility is ISO 9001 certified and in the process of obtaining ISO 15378 certification



Clariant, a world leader in specialty chemicals, announces that its new Clariant Healthcare Packaging production facility in Cuddalore, Tamil Nadu, India is now operational. The new site is capable of producing Clariant's line of Sorb-it®, Tri-Sorb®, 2-in-1 Can®, and Getter Can® sorbent canisters for the growing Indian and Asia-Pacific pharmaceutical packaging markets.

"The new site has been validated as scheduled, and we look forward to serving customers with Clariant desiccants directly from Cuddalore," says Matthias Brommer, Head – Clariant Healthcare Packaging business line. "By manufacturing regionally, we will be able to provide improved supply and service to our significant customer base in India while

further addressing important and emerging markets in Greater China, the rest of Asia and Australia."

The Cuddalore site is already certified ISO 9001, with ISO 14001, 18001, and 15378 certifications intended to be obtained by the end of the year, the latter of which will add Cuddalore to Clariant Healthcare Packaging's network of GMP-certified production facilities. Cuddalore is equipped with an ISO Class 8 clean room, and products produced at the site meet the relevant US FDA, USP and EU standards for use in pharmaceutical applications.

"Clariant canisters are among the most widely used pharmaceutical desiccants by generic manufacturers in India," says Ketan Premani, Head – Healthcare Packaging India.

"Thanks to the latest manufacturing equipment and product design, customers can expect the highest level of quality, and now with improved customer service."

Not only does the new Cuddalore site augment Clariant's production capacity for desiccant canisters, it also adds to Clariant's ability to meet BCP (Business Continuity Planning) requirements of global customers by producing identical products at multiple sites worldwide. Furthermore, Clariant continues to offer the Indian market a full range of controlled atmosphere packaging solutions from its global production sites, and it can help customers determine the ideal packaging configuration via its Stablus™ program.

[www.clariant.com](http://www.clariant.com)

## Smart Lid distributor Appointed in Middle East

Australian packaging firm Smart Lid appoints Middle Eastern distributor for its smart coffee lids. Caffè DILANO will act as exclusive distributor for the country of Iran.

The Smart Lid is a colour changing disposable beverage lid that warns of the hot contents by turning bright red and as the lid returns to the 'cold' colour as the hot drink cools. The

technology draws attention to the hot liquid with the purpose of warning those around of the potential scald danger.

"Every week we continue to be amazed by the product enquiries we receive from many different regions of the world" Mr George Bayss confirmed. He also added "We are very excited about the Smart Lid expansion to Iran as business

owners of all sizes are always looking to deploy new packaging to draw attention to their brands."

Smart Lid is currently in the process of dramatically scaling up production output to meet the international wholesale foodservice enquiries.

[www.smartlid.com](http://www.smartlid.com)

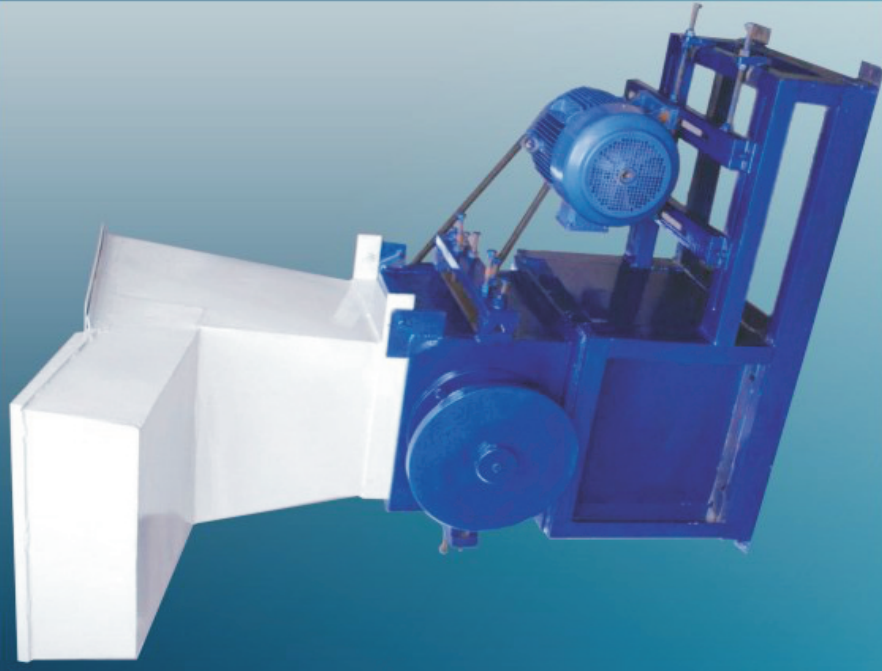
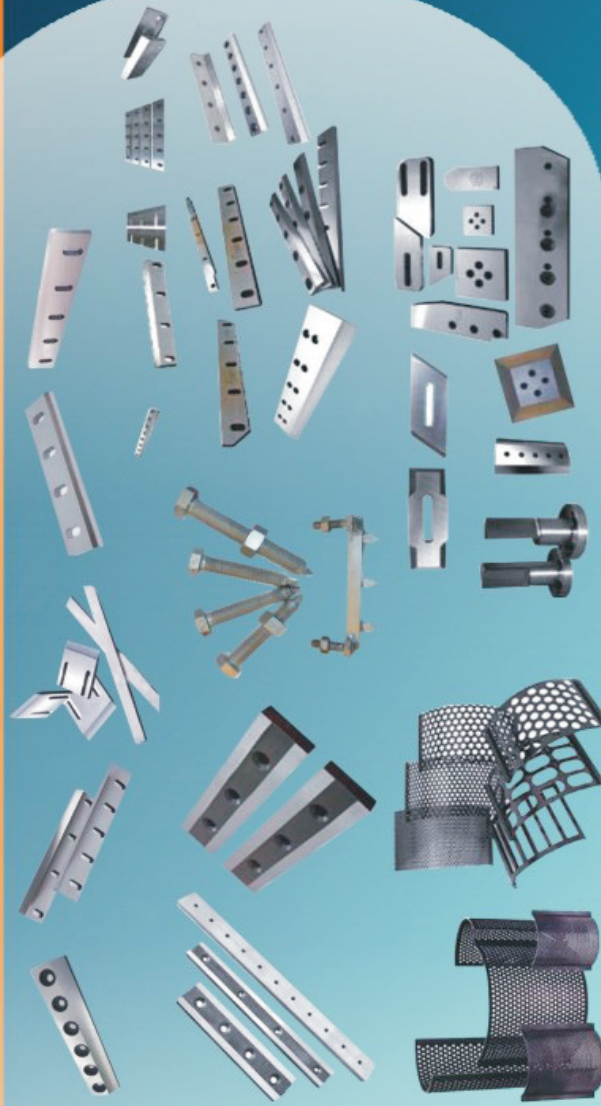
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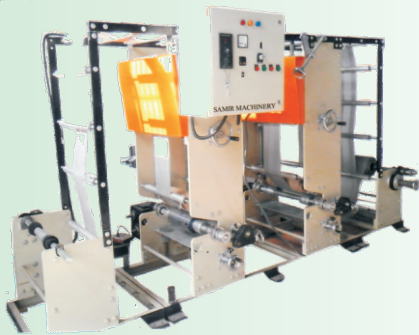
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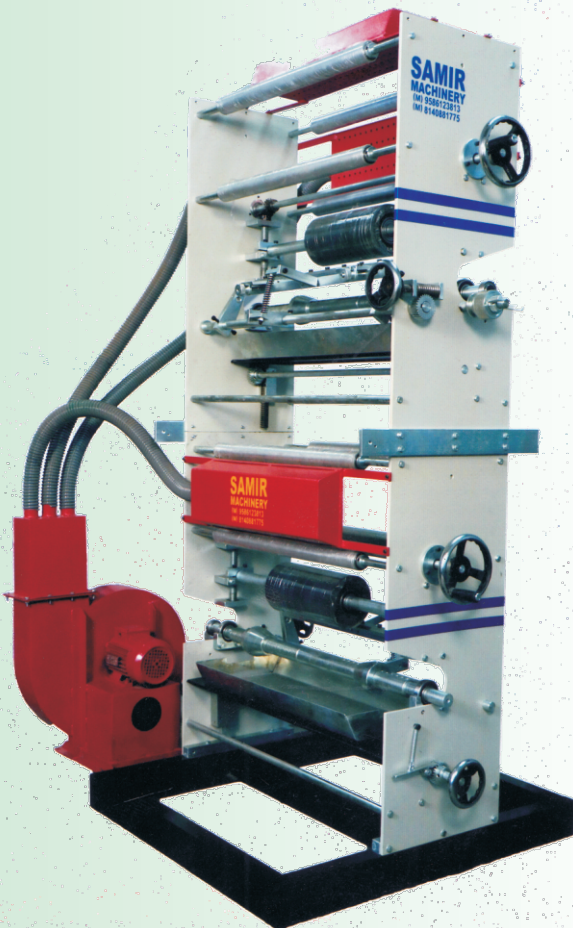
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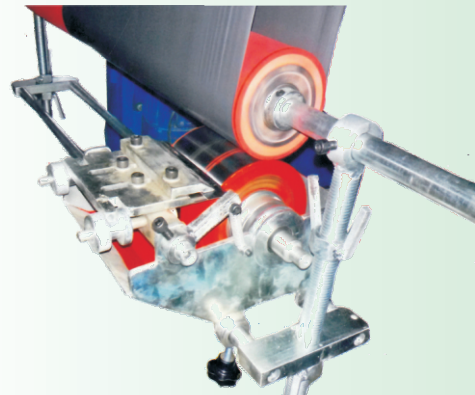
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## INEOS Styrolution selected by Goldsun to create high impact ABS bumper guards for cars in India



• Goldsun takes advantage of a broad range of Absolac® ABS solutions<sup>1</sup> for its high melt strength with broader processing window and superior impact

• Absolac proves to be ideal for Goldsun's blow molding method for producing auto parts

• Absolac E 502 BML becomes the latest addition to the portfolio, used for the production of bumper guards and spoilers

INEOS Styrolution, the global leader in styrenics, has been selected by Goldsun Auto Pvt. Ltd. as a thermoplastics supplier for its range of automotive components such as spoilers, luggage carriers and footsteps for four-wheelers in India. The Coimbatore, India, based company lives up to a strong commitment to quality, right from sourcing raw materials all the way to final fitting. For a wide range of applications, they turn to INEOS Styrolution to provide the best ABS solution per respective

application.

Goldsun employs innovative methods such as special blow molding, plasma cutting (cutting electrically conductive materials by means of an accelerated jet of hot plasma), cold anodizing (electrolytic passivation process increasing the thickness of the natural oxide layer on the surface of metal parts) and powder coating to create high quality and visually appealing components. They are one of the first companies to start a dedicated ABS bumper guard production unit in India. The blow molding technology ensures dimensional accuracy, high volume production, high surface finish and repeatability factors.

G Ramachandran, Managing Director at Goldsun, says: "We are happy with the E 502 BML grade, as it gives a better result in blow molding products. Absolac shows good flexibility that helps in proper molding. Its high melt strength and broader processing window

contributes to produce good quality bumper guards weighing 17 to 18kg, with good impact strength, dimensional stability and consistent product wall thickness". He particularly appreciates the proactive approach of the INEOS Styrolution representatives.

### **Goldsun uses a broad range of Absolac ABS solutions in their production:**

**Absolac E 502 BML:** This blow molding grade became the latest addition to the portfolio used by Goldsun. It is used for the production of the GoldsunXtent Defender and Trishul range of bumper guards for SUVs like Tata Hexa and parcel trays for Datsun redi-GO. Goldsun chose this particular grade for its high melt strength and good mechanical properties.

**Absolac 120 HR:** This grade is used for the production of the Goldsun Footrail suitable for all SUVs.

**Absolac 200 EP:** This easy flow electroplating injection-molding grade is used for automotive plating parts.

Rajiv Verma, Lead Automotive India at INEOS Styrolution, enjoys the partnership with Goldsun. He comments: "We are glad to work with this strong local automotive company in India, and we are looking forward supporting Goldsun to stay at the top of the industry." Thangamayan Prabharan, Manager Sales and Marketing, adds: "Due to our close cooperation, we are able to make suggestions early in the development process of a new application."

[www.ineos-styrolution.com](http://www.ineos-styrolution.com)

# TOP PERFORMANCES ARE NOT TO BE REACHED, THEY ARE TO BE TEACHED.

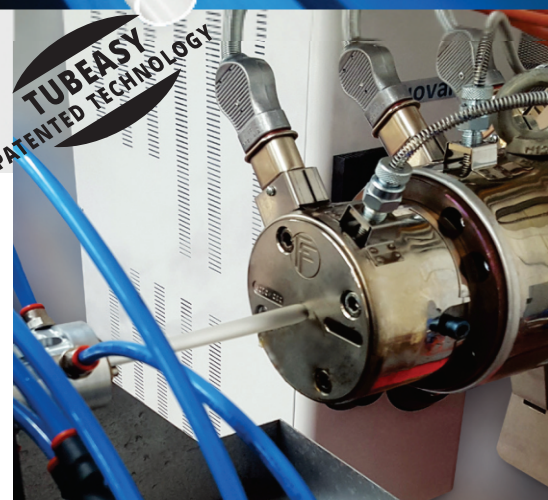
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## STEERLife launches INTEGRAAL – All-in-one True Continuous processor – at AAPS 2017 *Technology to steer a paradigm shift in pharmaceutical processing*



STEERLife, provider of technology platforms and process solutions for pharmaceutical industry, today announced the commercial availability of INTEGRAAL by running an all-in-one true continuous processor capable of simultaneous and continuous granulation, drying and sizing in one equipment at the AAPS 2017 annual meeting in San Diego, US. With the adoption of INTEGRAAL, pharmaceutical companies will see reduction in manufacturing time, human intervention, equipment footprint and yield losses.

Using INTEGRAAL, granules can be achieved with residence time of less than 15 seconds, a giant leap over the conventional process, which takes several hours to finish the granulation step that is followed by drying and sizing. It enables the pharmaceutical industry to transform from the traditional manufacturing to advanced manufacturing through improved process dynamics and stability.



**STEERLife's Managing Director & Chief Knowledge Officer, Babu Padmanabhan** said, "INTEGRAAL evolved from our labs following extensive R&D work on formulation development of sensitive and difficult to process ingredients. While offering steady state of control, INTEGRAAL eliminates several steps in the conventional process with benefits of consistent quality, easy scalability and manufacturing flexibility"

Using the INTEGRAAL, sized dry porous spheroidal granules can be produced for lab scale (as small as 5 grams in seconds) as well as clinical supplies (several 100 kilograms in a few days) using the same equipment. INTEGRAALS are available in lab and commercial models that can easily scale from 1 kg/h to 100 kg/h and more. It is a fully contained vessel that avoids dust generation and especially suited for potent compounds, cytotoxic substances, steroids & hormones.

### About STEERLife

**STEERLife is a unique and seamless blend of engineering and pharmaceutical sciences - one that is committed to the design and development of solutions that can transform the way we make and take medicines.** STEERLife is a part of the STEER Group committed to the design, creation and implementation of advanced materials platform technologies that effectively transform and functionalise materials in the field of pharmaceuticals, plastics, food & nutraceuticals, biomaterials and biorefining. Operating 5 global offices, 10 satellite offices, 3 Application Development Centers and supported by a talented workforce of over 500 engineers, scientists and technicians, the STEER Group serves over 39 countries across the globe. STEER is driven by innovation and holds 11 patents apart from 25 others that are applied. With a vision to 'STEER A NEW WORLD', the group remains focused on the development of advanced platform technologies and processes to improve the quality of life and change the way people live, eat and stay healthy.

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10<sup>th</sup> International Plastics Exhibition, Conference & Convention  
Feb. 7-12, 2018, Gandhinagar - Ahmedabad, Gujarat, India.  
**HALL - 5, STAND - C12**



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experience can supply  
extrusion lines for the  
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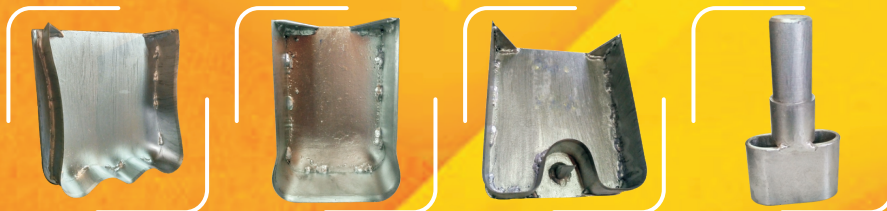
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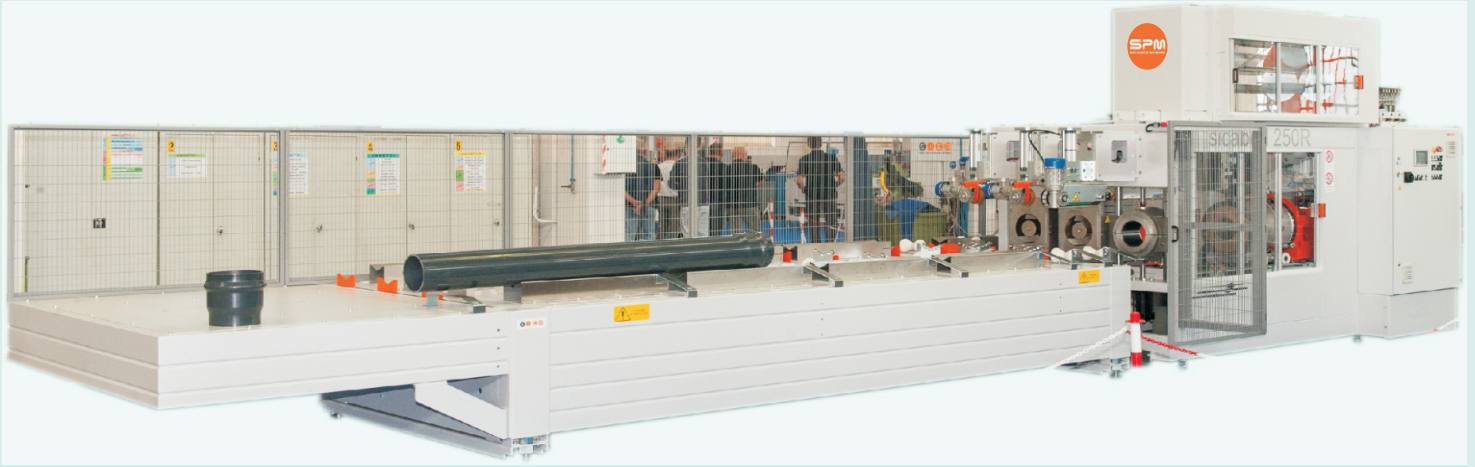


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## CHEMICALS BUSINESS OF UFLEX BECOMES INDIA'S FIRST NABL ACCREDITED ENTITY IN THE FIELD OF COMBINED MANUFACTURING OF PACKAGING INKS AND LAMINATION ADHESIVES

In a big development, Chemicals Business of Uflex Limited has become India's First NABL accredited entity in the field of combined manufacturing of Packaging Inks and Lamination Adhesives. National Accreditation Board for Testing and Calibration Laboratories (NABL) is a Constituent Board of Quality Council of India. NABL has been established with the objective of providing Government, Industry Associations and Industry in general with a scheme of Conformity Assessment Body's accreditation which involves third-party assessment of the technical competence of testing including medical and calibration laboratories, proficiency testing providers and reference material producers.

Expressing delight over this development, Mr. Rajesh Bhasin, Business Head, Chemicals at Uflex Limited said, "With this, the Laboratory of Chemicals Business has been formally recognized by an Accreditation Body in line with the internationally laid down principles and is now authorized to issue results (within defined scope) for customers as a third party for outside samples in accordance with ISO/IEC 17025:2005. Reports issued by an NABL accredited laboratory are internationally accepted owing to its tie up with International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Laboratory Accreditation Cooperation (APLAC)."

ISO/IEC 17025:2005 specifies the general

**Uflex** Chemicals Business of Uflex becomes India's first NABL accredited entity in the field of combined manufacturing of Packaging Inks and Lamination Adhesives

Chemicals Business of Uflex that recently made to the TOP 25 Club of International Companies on the basis of global ink sales (ref. Ink World; August 2017) enjoys an irreproachable reputation as a manufacturer of world class quality inks, adhesives, speciality coatings and polyols that are required in the converting process for packaging.

Some of the highly acclaimed and much in demand products by Uflex Chemicals are Laminating Solvent based Adhesives, Solvent less Adhesives, Water based Adhesives, PU Adhesives, Ink Binders, Flexo, Gravure Primers, Top Coats, Inks, Heat Seal Coatings, Energy Curable Coatings, UV Coatings, Solvent Borne Coatings, UV LED Coatings, etc.

requirements for the competence to carry out tests and/or calibrations, including sampling. It covers testing and calibration performed using standard methods, non-standard methods, and laboratory-developed methods.

Congratulating Team Chemicals at this remarkable feat, Mr. Ashok Chaturvedi, Chairman & Managing Director, Uflex Limited said, "This accreditation by NABL further testifies the quality conscious approach governing the manufacturing processes at Uflex Chemicals. Upholding our overarching Brand Promise across our business portfolio, we remain committed to offering value-added best-in-class flexible packaging solutions for our esteemed clients across the globe." [www.uflexltd.com](http://www.uflexltd.com)



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## POWER BRUSHES - INDUSTRIAL AUTOMATION BRUSHES



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## Use of Plastics in Food Packaging Industry

Plastic packaging materials that come in contact with food products can lead to migration of some chemical substances such as residual monomer, additives, plasticizers, pigments, etc., to food when exposed to different temperatures over a longer duration. Conscious of this fact, the Government encourages use of other packaging materials such as jute for packaging food items, where feasible. All food items cannot, however, be packaged in such alternate materials. Plastic in different forms has, in view of its ability to protect products and extend shelf life, prevent spoilage and contamination, ensuring better storage and sealing aroma, etc. emerged as a widely used material for packaging and storing food. The plastic material is also temper proof and reduces the chances of adulteration, is corrosion resistant and in most cases, chemically inert.

Keeping the above in view, the Food Safety and Standards (Packaging

and Labelling) Regulations, 2011 prescribe Indian Standards for containers made of plastic material of graded specification for packing or storing of food items. These are based on the Bureau of Indian Standards specifications, which also lay down limits of migration of toxic elements. The use of plastics for packaging food in conformity with specified standards is considered safe in the context of contemporary scientific knowledge.

Food Safety and Standards Authority of India (FSSAI) has conducted a study jointly with Indian Institute of Packaging (IIP) and National Test House (NTH) to determine the migration of chemical contaminants and heavy metals from packaging into food. IIP was given the responsibility to undertake the study on chemical contamination from packaging material used for packaged food items, focusing majorly on plastics, paper and other materials. IIP has analysed 1250 samples. National Test House was given

the responsibility to undertake the study on chemical contamination from loose packaging material, including paper cups, plates, plastic cups, carry bags and allied materials. NTH has analysed 1760 samples.

Opinion regarding safety of plastic very widely and a scientific consensus on the issue is yet to be reached. However, the way forward is to judiciously use all available scientific knowledge and technology to mitigate the adverse effects that may emanate from migration of chemicals from packaging material to packaged food and evolve innovative techniques for use of recycled packaging material in an environment friendly manner.

The Minister of State (Health and Family Welfare), Sh Ashwini Kumar Choubey stated this in a written reply in the Lok Sabha here today.

**Source**  
**Press Information Bureau**

Courtesy



**Contact**

**www.plasticudyog.com**

**E- Mail : plasticudyog@gmail.com**

**plastic tomorrow@gmail.com**

**+91 93273 44559 / +91 94263 34455**



**+91 9998687659**

# તમે પ્રદર્શક નથી?

છતાં પ્લાસ્ટઇન્ડિયા 2018માં  
તમારી બ્રાન્ડની મોજૂદગી  
ધરાવી શકો છો!



રૂ. 25,000 થી શરૂ થતી જાહેરાત અને સ્પોન્સરશિપની તકોનો ઉપયોગ કરો. તમારી બ્રાન્ડને પ્લાસ્ટિક્સની દુનિયામાં 2,00,000 થી પણ વધુ પ્રભાવશાળી વ્યક્તિઓ સામે દર્શાવો.

**હમણાં જ બુક કરો, મોકાની જગ્યાઓ ઝટપટ વેચાઈ રહી છે!**



બ્રાન્ડ કિસ્મતે  
પેનલ્સ  
(એક મીટર)



પ્લાસ્ટઇન્ડિયા 2018  
ઈન્ટરનેશનલ  
કોન્ફરન્સ



પ્લાસ્ટઇન્ડિયા 2018  
મોબાઇલ એપ



પ્લાસ્ટઇન્ડિયા 2018ની  
વેબસાઇટ પર બેનર



‘સ્પોટ એન્ડ સાઇટ’  
જાહેરાત



પ્લાસ્ટઇન્ડિયા 2018ની  
કિરેક્ટરી

ઓનલાઇન રજિસ્ટ્રેશન કરો:

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- ✓ અમારા ડેટાબેઝ પર રહેશે
- ✓ નિયમિત ‘અપડેટ્સ’ મેળવશો

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લોગ ઓન કરો [WWW.PLASTINDIA.ORG](http://WWW.PLASTINDIA.ORG)

મોબાઇલ એપ



## PLASTINDIA 2018

### EMPOWERING GROWTH

10મું આંતરરાષ્ટ્રીય પ્લાસ્ટિક પ્રદર્શન, પરિષદ અને સંમેલન

7-12 ફેબ્રુ. 2018, ગાંધીનગર - અમદાવાદ, ગુજરાત, ભારત.



401, લેન્ડમાર્ક બી, સુરેન રોડ, અંધેરી કુર્લા રોડ પાસે, અંધેરી (પૂ), મુંબઈ - 400 093, ભારત. ફોન: +91-22- 26832911 - 14, ફેક્સ: +91-22-26845861, ઇમેઇલ: [info@plastindia.org](mailto:info@plastindia.org)



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દુનિયાભરમાંથી

**500+**  
40 દેશોના  
વિદેશી પ્રદર્શકો

**200,000**  
મુલાકાતીઓ  
દુનિયાભરમાંથી

સાથોસાથ  
ઇવેન્ટ્સ



## The Central Government appeals to the Industry Leaders to pass on the benefit of GST Rate reduction to the consumers as it is expected to encourage domestic demand and investment among others.

The GST Council in its 23rd Meeting held on 10th November, 2017 at Guwahati, has recommended the reduction of the GST rate from 28% to 18% on goods falling under 178 headings, leaving now only 50 items under the GST slab rate of 28%. A large

number of items have also witnessed a reduction in GST rates from 18% to 12%, 12% to 5% and so on. All these changes are effective from the midnight of 14th November,

2017. The benefit of reduction in the GST rate has to be passed on by the suppliers to the consumers by way of commensurate reduction in prices. The reduction in GST rates is also expected to encourage domestic demand and investment.

Ms. Vanaja N. Sarna, Chairperson, Central Board of Excise & Customs (CBEC) has addressed a letter to all the major Fast-Moving Consumer Goods (FMCG) companies pointing out the

need to immediately revise the MRP on all the products in which the reduction of GST has been announced by the Council. She has also requested all to give wide publicity to the revised MRP of products. The Government expects that the industry should immediately respond to the earlier appeal made by the Finance Minister on this issue.

**Source**  
**Press Information Bureau**

**Courtesy**

## FORTH COMING EVENTS

<b>DIEMOULD-INDIA-2018</b>	<b>GOREGAON ( MUMBAI)</b>	<b>11-14 APRIL-2018</b>
<b>OMAN PLAST</b>	<b>OMAN</b>	<b>7TH TO 9THMAY-2018</b>
<b>IPLX-18</b>	<b>HYDERABAD</b>	<b>3RD TO 6TH AUGUST-2018</b>
<b>INDPLAS'18</b>	<b>KOLKATA</b>	<b>30TH NOV TO 3RD DEC-2018</b>
<b>PLAST SHOW</b>	<b>RAJKOT</b>	<b>16TH DEC TO 19TH DEC-2018</b>
<b>11'TH PLASTIVISION-2019</b>	<b>PRAGATI MADIAN-DELHI</b>	<b>28TH FEB TO 4TH MARCH2019</b>
<b>INDIAPLAST</b>	<b>NODIA</b>	<b>28TH TO 4TH MARCH-2019</b>

# 11000 થી પણ વધુ હોટેલ રૂમો ઉપલબ્ધ છે



પ્લાસ્ટઈન્ડિયા 2018 રૂ. 2500 થી શરૂ થતી યોગ્ય હોટેલના બુકિંગ મેળવવામાં તમને મદદરૂપ થવા ખુશી અનુભવે છે!

## નિરાશા ટાળવા હમણાં જ બુક કરો



એરલાઈન ડિસ્કાઉન્ટ



રજિસ્ટ્રેશન ફી પર 'બચત અને ઓફરો'



હોટેલ બુકિંગ હવે એકદમ આસાન



HDFC દ્વારા પૂર્વમંજૂર લોન



સ્થળ ખાતે એક્સક્લુઝિવ 'નો ક્યુ' પ્રવેશ



'To & Fro' શટલ બસ સેવા એરપોર્ટ, રેલ્વે સ્ટેશન, એગ્જિબિશન વેન્યૂ અને પિક-અપ પોઈન્ટ પર



પાર્કિંગ માટે ભરપૂર જગ્યા



એક્સક્લુઝિવ 'મોબાઈલ એપ લાઉન્ચ'

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## PLASTINDIA 2018 EMPOWERING GROWTH

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125,000  
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પ્રદર્શન જગ્યા

2000  
ઉત્કૃષ્ટ પ્રદર્શકો  
દુનિયાભરમાંથી

500+  
40 દેશોના  
વિદેશી પ્રદર્શકો

200,000  
મુલાકાતીઓ  
દુનિયાભરમાંથી

સાથોસાથ  
ઇવેન્ટ્સ





# **Chinaplas® 2018** 国际橡塑展



Mr. Om Prakash

## **The 32<sup>nd</sup> International Exhibition on Plastic & Rubber Industries** **Asia's No:1 & World's No: 2**

24 – 27 April 2017, Shanghai

*By Om Prakash, Director InORBIT Tours Pvt. Ltd., official tour operators in India*

### **Chinaplas 2018 to revolutionise Indian Plastic Industry**

During the recent visit to Thai Plas 2017 and Pack Print International Expo 2017 held in Bangkok Mr. Om Prakash, Director – InORBIT Tours Pvt. Ltd., met the Organisers of Chinaplas 2018. Keeping in view the drastic changes and innovations in the plastic industry, the Organisers provided an exhaustive account of latest technology and facts about Chinaplas 2018. Some details are mentioned below:

### **Packaging**

Plastic packaging is booming with a wide arrange of products and technologies. Multifunctional packaging is gaining in popularity, and offer high-strength, high-barrier, moisture-resistant and anti-counterfeiting properties. Green packaging made by renewable or degradable materials and thin-wall, lightweight packaging are in great demand.

### **Plastics Technology Trend for Packaging Sector at Chinaplas 2018**

- **Advanced food-grade plastic**
- **Biodegradable plastics**
- **BOPP film materials**
- **Three-and five-layer, fully automatic, High-speed cast stretch film machine materials**
- **Pre-wired, unitized hot runner systems**
- **High-cavitation PET perform molds**
- **Smart flow control technology**
- **Fast-running IML systems with biodegradable plastics**

### **CHINAPLAS 2018 Show Scale**

- |  |  |
|--|--|
| ➤ <b>11 Country/Region Pavilions</b>   | ➤ <b>3800 + sets of Machinery Exhibits</b>                   |
| ➤ <b>320,000 sq.m. Exhibition Area</b> | ➤ <b>150,000 + Trade Visitors from 150 Countries/Regions</b> |
| ➤ <b>3400 + Exhibitors</b>             |  |

# વૃદ્ધિ સશક્ત પૂર્વમંજૂર લોન સાથે



HDFC બેન્ક અને પ્લાસ્ટઇન્ડિયા 2018 દ્વારા તમને પૂર્વમંજૂર લોનની અત્યંત જરૂરી શક્તિ આપવાની અજોડ તક રજૂ કરવામાં આવી છે, જેથી તમે આસાનીથી મશીનરી ખરીદી કરવાનો નિર્ણય ત્યાં ને ત્યાં જ લઈ શકો.

## ફક્ત પ્લાસ્ટઇન્ડિયા 2018 ના રજિસ્ટર્ડ વિઝીટર્સ માટે



એરલાઇન  
ડિસ્કાઉન્ટ



રજિસ્ટ્રેશન ફી પર  
'બચત અને ઓફરો'



હોટેલ બુકિંગ  
હવે એકદમ આસાન



HDFC દ્વારા  
પૂર્વમંજૂર લોન



સ્થળ ખાતે  
એક્સક્લુઝિવ  
'નો ક્યુ' પ્રવેશ



'To & Fro' શટલ બસ  
સેવા એરપોર્ટ, રેલ્વે સ્ટેશન,  
એન્જિનિયરિંગ વેન્ચૂ અને પિક-અપ  
પોઈન્ટ પર



પાર્કિંગ માટે  
ભરપૂર જગ્યા



એક્સક્લુઝિવ  
'મોબાઇલ એપ લાઉન્ચ'

ઓનલાઇન રજિસ્ટ્રેશન કરો:

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- ✓ અમારા ડેટાબેઝ પર રહેશો
- ✓ નિયમિત 'અપડેટ્સ' મેળવશો

મોબાઇલ એપ ડાઉનલોડ કરો અથવા  
લોગ ઓન કરો [WWW.PLASTINDIA.ORG](http://WWW.PLASTINDIA.ORG)

મોબાઇલ એપ



# PLASTINDIA 2018

## EMPOWERING GROWTH

10મું આંતરરાષ્ટ્રીય પ્લાસ્ટિક પ્રદર્શન, પરિષદ અને સંમેલન

7-12 ફેબ્રુ. 2018, ગાંધીનગર - અમદાવાદ, ગુજરાત, ભારત.



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આગળ અહીં છે

125,000  
ચોરસમીટરની કુલ  
પ્રદર્શન જગ્યા

2000  
ઉત્કૃષ્ટ પ્રદર્શકો  
દુનિયાભરમાંથી

500+  
40 દેશોના  
વિદેશી પ્રદર્શકો

200,000  
મુલાકાતીઓ  
દુનિયાભરમાંથી

સાથોસાથ  
ઇવેન્ટ્સ





**InORBIT's delegation at CHINAPLAS 2017**

## 18 Theme Zones

### Machine Exhibits

- Injection Moulding Machinery Zone
- Extrusion Machinery Zone
- Plastic Packaging Machinery Zone
- Film Technology Zone
- Rubber Machinery Zone
- Smart Manufacturing Technology Zone
- 3D Technology Zone (NEW)
- Auxiliary & Testing Equipment Zone
- Recycling Technology Zone
- Die & Mould Zone
- Chinese Export Machinery and Materials Zone

### Material Suppliers

- Chemicals & Raw Materials Zone
- Additive Zone
- Bioplastic Zone
- Colour Pigment & Masterbatch Zone
- Composite & High Performance Materials Zone
- Semi-Finished Products Zone
- Thermoplastic Elastomers & Rubber Zone (NEW)

### Why Visit

- Learn about new materials & new technologies
- Acquire latest industry trends
- Look for alternatives on production technology to replace Metal cans, Glass bottles & Milk Powder in metal cans.

### Special Travel Package by InORBIT Tours Pvt. Ltd., official travel agents in India:

It will not be out of place to mention that InORBIT Tours Pvt. Ltd., has been operating large groups of plastics and rubber industries to Chinaplas every year. InORBIT is fully geared to accept the registrations of Indian visitors to **Chinaplas 2018**, said Mr. Om Prakash. More information regarding Chinaplas 2018 and the special travel arrangements can be obtained from Mr. Om Prakash, Director – InORBIT Tours Pvt. Ltd., call tel: 022 – 24229281/24389271 or email: [omprakash@inorbittours.com](mailto:omprakash@inorbittours.com)

The Show information is obtained from the Organisers and can be downloaded from their website: [www.chinaplasonline.com](http://www.chinaplasonline.com)

# પ્લાસ્ટઇન્ડિયા 2018

માટે ઓનલાઇન વિઝીટર રજિસ્ટ્રેશન કરવામાં અનેક લાભ છે



**વિઝીટર્સ  
એમ્પાવર્મેન્ટ  
ઇનિશિયેટિવ્સ**

અમારી 'વિઝીટર્સ એમ્પાવર્મેન્ટ ઇનિશિયેટિવ્સ' નો ખાસ લાભ લો અને પ્લાસ્ટઇન્ડિયા 2018 માં તમારો અનુભવ સમૃદ્ધ બનાવો.



એરલાઇન  
ડિસ્કાઉન્ટ



રજિસ્ટ્રેશન ફી પર  
'બચત અને ઓફરો'



હોટેલ બુકિંગ  
હવે એકદમ આસાન



HDFC દ્વારા  
પૂર્વમંજૂર લોન



સ્થળ ખાતે  
એક્સક્લુઝિવ  
'નો ક્યુ' પ્રવેશ



'To & Fro' શટલ બસ  
સેવા એરપોર્ટ, રેલ્વે સ્ટેશન,  
એગ્રિબિશન વેન્યૂ અને પિક-અપ  
પોઇન્ટ પર



પાર્કિંગ માટે  
ભરપૂર જગ્યા



એક્સક્લુઝિવ  
'મોબાઇલ એપ લાઉન્ચ'

ઓનલાઇન રજિસ્ટ્રેશન કરો:

- ✓ જેથી કતાર નહીં લગાવવી પડે
- ✓ અમારા ડેટાબેઝ પર રહેશે
- ✓ નિયમિત 'અપડેટ્સ' મેળવશો

મોબાઇલ એપ ડાઉનલોડ કરો અથવા  
લોગ ઓન કરો [WWW.PLASTINDIA.ORG](http://WWW.PLASTINDIA.ORG)

મોબાઇલ એપ



## PLASTINDIA 2018

EMPOWERING GROWTH

10મું આંતરરાષ્ટ્રીય પ્લાસ્ટિક પ્રદર્શન, પરિષદ અને સંમેલન

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125,000

ચોરસમીટરની કુલ  
પ્રદર્શન જગ્યા

2000

ઉત્કૃષ્ટ પ્રદર્શકો  
દુનિયાભરમાંથી

500+

40 દેશોના  
વિદેશી પ્રદર્શકો

200,000

મુલાકાતીઓ  
દુનિયાભરમાંથી

સાથોસાથ  
ઇવેન્ટ્સ



સમર્થકો



વિશિષ્ટ વિદેશી સહયોગીઓ



સમર્થક





## *With Best Compliment* **PLASTIC PROCESSORS (GUJ.) ASSOCIATION VADODARA**

### **MESSAGE FROM PLASTIC PROCESSORS (GUJ) ASSOCIATION, VADODARA.**



**JAYAKANT NANAVATI**  
President (Vadodara)

We heard so many myths about plastics that it is not good for environment but in fact "Plastic" can Save Environment and Human Health Globally. Plastic is enhancing all effect of Life at every stage. Due to Government's help to the Plastic Industries in China, America, Japan, Russia, France, Germany & other Countries, their Growth rate are Very High.

Gujarat is a Global Hub for Plastic Processing & Finished Goods. Gujarat Plastic Industries have ability to Manufacturing International Quality Finished Products and Capacity to produce large Quantities with Highly Competitive Pricing. Most Developed Countries Like USA, JAPAN, SWISS, RUSSIA, are Manufacturing and using Plastic 5 to 10 Times More than INDIA. Constantly from last 15 – 20 Years the Plastic Industries of India's Growth rate increasing but Very Slowly as compare to other developed countries.

Main thing is that the purpose of use of plastic can save environment, so Directly and indirectly plastic products are using by Automobile Industries, Food Processing Industries, House Hold Products, pharmaceutical products, Health Care Products as well as Construction too, and especially Plastic Polyethylene Bags are use by Agriculture Products like Grains, Fruits, Vegetables, and so many Crops because of maintaining its freshness.

"If we get support from government like developed countries to Create Awareness in use of Plastic, we can definitely save wood, Water, Paper and Environment."

Looking for Good Support by Government to Plastic Industries, Which Create millions of Jobs for the people and revenue to the Government.

THANKS TO PLASTIC TOMORROW ( D.J.PUBLICATION) FOR THEIR KIND SUPPORT AND ALL THE BEST FOR PARTICIPATION IN WORLDS 3RD LARGEST EXHIBITION OF PLASTIC HELD IN GANDHINAGAR (GUJARAT).  
Thanks.

President  
PLASTIC PROCESSORS (GUJ.) ASSOCIATION, VADODARA.

**JAYAKANTBHAI NANAVATI**

# ‘નેવર બિફોર’ સુવિધાઓ

એક્સક્લુજિવ રજિસ્ટર્ડ વિઝિટર્સ માટે @ પ્લાસ્ટઇન્ડિયા 2018



તમે વ્યાપાર પર ધ્યાન કેન્દ્રિત કરો અને તમારો અનુભવ પ્લાસ્ટઇન્ડિયા 2018 માં સમૃદ્ધ બનવા માટે ધ્યાન રાખો.



એરલાઇન ડિસ્કાઉન્ટ



રજિસ્ટ્રેશન ફી પર ‘બચત અને ઓફરો’



હોટેલ બુકિંગ હવે એકદમ આસાન



HDFC દ્વારા પૂર્વમંજૂર લોન



સ્થળ ખાતે એક્સક્લુજિવ ‘નો ક્યુ’ પ્રવેશ



‘To & Fro’ શટલ બસ સેવા એરપોર્ટ, રેલ્વે સ્ટેશન, એન્જિનિયરિંગ વેન્યુ અને પિક-અપ પોઈન્ટ પર



પાર્કિંગ માટે ભરપૂર જગ્યા



એક્સક્લુજિવ ‘મોબાઇલ એપ લાઉન્ચ’

ઓનલાઇન રજિસ્ટ્રેશન કરો:

- ✓ જેથી કતાર નહીં લગાવવી પડે
- ✓ અમારા ડેટાબેઝ પર રહેશે
- ✓ નિયમિત ‘અપડેટ્સ’ મેળવશો

મોબાઇલ એપ ડાઉનલોડ કરો અથવા લોગ ઓન કરો [WWW.PLASTINDIA.ORG](http://WWW.PLASTINDIA.ORG)

મોબાઇલ એપ



## PLASTINDIA 2018

EMPOWERING GROWTH

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125,000  
ચોરસમીટરની કુલ  
પ્રદર્શન જગ્યા

2000  
ઉત્કૃષ્ટ પ્રદર્શકો  
દુનિયાભરમાંથી

500+  
40 દેશોના  
વિદેશી પ્રદર્શકો

200,000  
મુલાકાતીઓ  
દુનિયાભરમાંથી

સાથોસાથ  
ઇવેન્ટ્સ



**SHRI GURUKRUPA  
ENGINEERING**

Established in the year 1999, we “Shri Gurukrupa Engg. Works” are a prominent manufacturer and supplier of a premium quality range of Tarpaulin Heat Sealing Machines. Apart from these, we also offer a high quality range of Cutting Machines and Eyelet Machines. Manufactured in compliance with international quality standards, these machines are appreciated for their attributes like longer functional life, optimum quality, and excellent performance. Backed by the team of highly skilled professionals and state-of-the-art infrastructure, we have been able to satisfy the increasing demands of our clients and the industry. The quality controllers of our team keep a tab on every process under which the products pass. They also conduct various stringent quality tests on these products so as to deliver the flawless and defect free range at cost effective prices within the set period of time. Furthermore, for the utmost convenience of our customers, we accept payment in flexible modes. These factors have enabled us to garner a huge client base all across the domestic market. Under the guidance of our mentor, “Mr. Devisingh Chouhan”, we have been able to reach a phenomenal height of success. His in-depth knowledge and vast experience has enabled us to create a sophisticated niche in the highly competitive market.

Phone:- (O) 0265-3042371, (R) 2653007,  
F a x : - 0 2 6 5 - 2 6 3 7 7 1 8  
Mobile:- +91-9376218406, +91-  
9427603042, +91-9898885273  
E.Mail:- shrigurukrupaengg@yahoo.com ,  
shrigurukrupaengg@rediffmail.com



www.jailaxmienggnavsari.com

**Jailaxmi Engineering Corporation**  
MAKERS OF PLASTIC EXTRUSION PLANTS

**INTRODUCTION**

**Jailaxmi Engineering Corporation** Navsari ( Gujarat ) India since its inception in 1980 is Pioneer in Plastic Machinery and Now a Leader in Manufacturing of Extrusion Coating / Lamination Plants exclusively for Cotton cloth, Papers like, Tissue, Glass Shine, Printing and Craft Paper of GSM to 180 GSM, Board like, Grey, Century & Duplex of 200 GSM to 380 GSM and Aluminum foil duly treated can be coated on Extruder suitable for processing of LDPE, Our plants are also well suitable for sandwich Lamination with LDPE for Paper to Paper to HDPE coth, Paper to Cotton Cloth, Paper to Treated Aluminum foil and treated Aluminum foil to treated Metallic Polyester. We are also manufacturer of RPVC /SPVC Film Plants.

We have with our Valued satisfied Customers whom we supplied in past, the Plants like Extrusion Coating Lamination Plant, SPVC RPVC Film Plant.

**Jailaxmi Engineering Corporation** have their image of leading in Plastic Extrusion Laminating & Coating Plants because of best quality of raw material and best quality inputs of trusted and well established Bought Our Parts suppliers, like Electricals & Electrics, Gearbox, PLCS, ect. are being used.

The Contractions of machine and plant is Robust and Heavy Duty. and have long life, durable with approximately zero maintenance gives high returns on investment. This increases Profitability and Machine efficiency yielding to Profit/ for our valued customers year by year.

The company has well proven design/s by technocrats with years of experience in Plastic Extrusion, Coating & Lamination Industries. Our well experienced & qualified workforce works hard to further and continual improvements in design to increase output productivity of our machines and Plants supplied. We are product of achieving ICRANSIC-SEB ratings in current year.

Our satisfied customers are well spread all over India and encourage with their repeated ordering on us and a recommendation in their group has made us of feeling Proud.

For Further Details :-

**Jailaxmi Engineering Corporation**  
C-30 Udyog Nagar Navsari - 396445 (Gujarat) India.  
Ph No. :- 02637-257028, 656228

E-mail Id :- jailaxminvs@yahoo.co.in  
jailaxmi1980@gmail.com

Web :- jailaxmiindia.com  
jailaxminvs.com  
jecindia.in



BHARAT VIKAS RATAN  
AWARD - 2007

*A Complete Range of Plastic Extrusion Plants.*



Carmel Engineering is a leading manufacturer of high precision oriented premium quality Carmel brand of Flexo, Rotogravure, Lamination, Non Woven and Extrusion machines conforming to International standards. With a reputation spanning more than twenty five years,

Carmel spells top class quality, excellent efficiency and unmatched after sales service.

Carmel has made a special name for itself in the field of Flexo printing machines with superior technology backed by expert engineers and technocrats. Carmel exports to Srilanka, Africa and Gulf countries with a strong presence in domestic market.

**SANGEETA ENGINEERING ENTERPRISE**

We, Sangeeta Engineering Enterprise, based at Ankleshwar, Gujarat, are a leading business entity engaged in manufacturing & exporting a wide range of products, including Plastic Cutting Industrial Blades, Processing Machines, Wiry (Fiber Cutter) and more. We have deep seated industry expertise that helps us come up with quality rich products aligning with latest international technology. Putting our know how to good use, we manufacture blades using high grade alloy steel and other raw materials procured from trusted industry sources. Not only blades, our product catalog covers a broad spectrum of assured quality products that are known for dimensional accuracy, good finish, rustproof bodies and excellent functionality. We also deal in optimum quality machines featuring reliable performance and easy operations.

**Product Range**

- Plastic Cutting Industrial Knives Blades
- Crusher Machine (Granulator Machine)
- Agglomerator Machine & Blades
- Mixers Machine



SINCE 1989

## New and most lucrative project for INDIA: SPCF flooring Making. Forget Wood flooring Now, Get rid of STINK, Termite, and Maintenance....



PVC + much of  $\text{CaCO}_3$  and some additives can give the Best Solid Flooring Base and on the top of it are Decorative Film layer of 70 Micron thickness and the topmost layer of a Wear layer of Plastic about 300 Micron thick-anti-wear.

Luxury Vinyl Tile known as in EUROPE and USA which is now being replaced with Stone plastic composite as known in CHINA, the replacement of wooden flooring is the best business opportunity now for us.

- o Abolish the usage of Wood and thus Deforestation,
- o Cheapest possible material cost,
- o Huge Export potential to European/ American Countries,
- o Termite-Proof, Water-proof, Long life, no stink and no maintenance, clean-able with soap and water.



### The pictures is a Stone Plastic Composite Flooring making plant in CHINA.

The Project Consists of The SPC board with film plus Wear layer Laminated Line, a UV plant, A board slitting line and side Milling line with Vacuum Dust collection and exhaustion Equipment. Estimated investment in such machinery can be Rs 3.75 Cr. Landed.

With initial over all investment, in addition to the Machinery cost, can stay as Shown to the Right

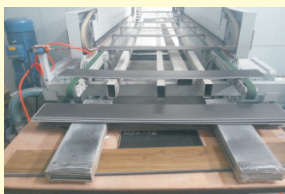
And, the total Initial Project Investment can be Rs. 7.85 Cr. Huge exports from CHINA to Europe and USA is tempting. And so we must enter in to this Business.

Initial Misc. Costs	0.9 Cr.
Land	0.7 Cr.
Building	1.3 Cr.
Working Capital	1.2 Cr.

### This project offers first year profitability of around 4.17 Cr.

Best Technology, France assisted machinery manufacturing from Class manufacturers. Genuine after sales support. GERMANY buys same plants those can come to us in INDIA. Assistance in INDIA by a professional for the honesty in supplies from China. Huge Market to replace Costly and environment eroding wood Demands. Cheaper. Huge export potential like what China is doing. Massive Expansion opportunities. No hazards on Environment. No other fuel needed except electricity to process and produce. About 60% return of Invested capital possibility within first year. Easiest laying on the floor without any sort of glue. Many types and kinds of color + Design available.

Contact Mr. Keitin Sun at GPM machinery (Shanghai) Co. Ltd Shanghai [salcc@gpmplas.com](mailto:salcc@gpmplas.com)  
Phone 0086 13817552980 . We have INDIA representation, assisted by the highly Technical & professional High class consultant team of plastic Industry in INDIA.



All the best machinery are at Shanghai and not at any place in CHINA, keep away from Assemblers and trading companies of North of CHINA. We can guarantee After-sales and spare parts supplies, we are a FRENCH Company in CHINA.

GPM MACHINERY (SHANGHAI) CO. LTD. SHANGHAI PRC, [salcc@gpmplas.com](mailto:salcc@gpmplas.com) 0086 13817552980

*"Way of connecting recycle"*

Will be at...

**PLASTINDIA 2018**  
EMPOWERING GROWTH

10<sup>th</sup> International Plastics Exhibition, Conference & Convention  
Feb. 7-12, 2018, Gandhinagar - Ahmedabad, Gujarat, India.

**Hall No. 6, Stall No. A4**



PET BOTTLE GRINDER



WOVEN BAG  
ROAD WASTE  
RAFFIA GRINDER



WOVEN SACK  
FABRIC PLANT  
WASTE RAFFIA  
GRINDER



SINCE 1987

**JAYDEEP**  
ENGINEERING

Manufacturer of : All Types of Plastic Scrap Grinder Machines & Agglomerator Machines

402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India

Contact Person :

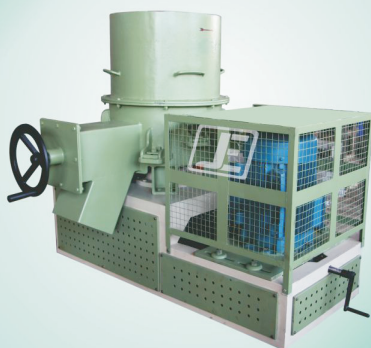
Mr. Jayantibhai : +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447

Mr. Milanbhai : +91-9726375797

Email : jaydeep@scrapgrinders.com

Website : [www.scrapgrinders.com](http://www.scrapgrinders.com)

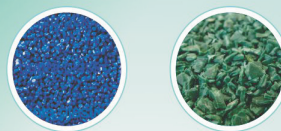
## "Way of connecting recycle"



AGGLOMERATOR  
MACHINE



RUBBER TUBE  
GRINDER



HITTING MIXTURE

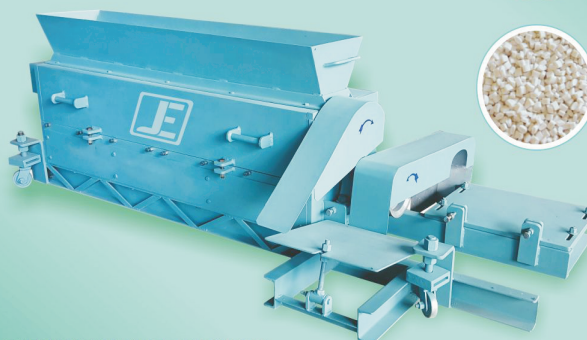


ARTICLE GRINDER



BIG ARTICLE GRINDER

It's mainly use as Inline grinder or fom grinder in online plant of XPS Thermoforming .



THERMOFOM SHEET GRINDER

SINCE 1987



**JAYDEEP**<sup>®</sup>  
ENGINEERING

Manufacturer of : All Types of Plastic Scrap Grinder Machines & Agglomerator Machines

402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India

Contact Person : Mr. Jayantibhai : Tel. +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447

Mr. Milanbhai : +91-9726375797 Email : jaydeep@scrapgrinders.com

Price Is What You Pay Value Is What You Get.

### Group Of Companies

- Jaydeep Engineering
- Jaydeep Machinery
- Jaydeep Enterprise
- Jaydeep Technology
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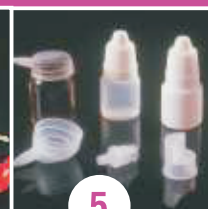
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ગામઘોડે, ત્યાંનાઘોડો. જુદીદિશાપકડો.

આખું ગામ અત્યારેફક્તપીવીસીફોર્મબોર્ડબનાવવા માટે,છાશવારે ચાઇનાઘોડો જાય છે.પ્લાયવૂડની કેટલી માંગ છે એ કોઇને ખબર છે? એની સામે આપીવીસીબોર્ડવેચવાના છે.

નોન-વોવનબનાવવા માટે મશીનલઇઆવનારાનીશીદશા થઇ એ ગામ આખુંભૂલીગયું છે.

મોટાંકોભાંડો લોકોભૂલી જાય છે,એટલે આ વાત બહુસામાન્ય છે.

પણ હરેકયુગમાંદરેકવાતનુંપુનરાવર્તન થયાંકરે છે.એટલે હવે, નોન-વોવન પછી પીવીસીફોર્મબોર્ડ નો વારો છે.

લોભીયા હોય ત્યાં ધૂતારા ભૂખેનામરે. એટલે છાશવારે, બેગ ભરીનેચાઇના ઉપડીજતી પ્રજાને લાલબત્તીબતાવવાનો આ પ્રયત્નસમજવો.ચાઇના, આપણાજેવાસસ્તંભરીદનારાલોભીયાંની રાહ જોઇને, જાળ પાથરીને રાહ જુએ છે. આપણીલગભગ અભણ અનેકહેવાતી ભોળી પ્રજા ને એરપોર્ટથી લાવે, લઇ જાય, મસાજકરાવી દે, ફોટલેથી લાવવા-લઇ જવાનીસગવડઆપે એટલે આપણી પ્રજા ભરાય.

ત્યાં જઇને, આપણને, પરોપજીવીવેલોનીજેમ,મક્તમાં ખાવા-પીવાથી લઇને, ફરવા-ફરવાં સુધીનું મળી જાય એટલે આપણા બાપ જન્મારેયકોઇ જાણકારીનહિહોવાં છતાંયે, જે મળે એ ઉચકીલાવવુંએવીઆપણીબાલીશહરકતોનો, ચીનાઓ લાભ ઉઠાવે છે, અને એ આપણને ભાન પડેત્યાં સુધી ઘણું મોડું થઇ ચૂક્યું હોય છે. સુધરી જાવ, આપનાપિતાજી એ બહુમેહનતકરીનેરૂપિયાભેગાંકર્યાહશે. આલેખ, ગુજરાતીમાંહોવાનુંકારણ ચોક્કસ છે. જ્યહિંદ.

The Author, Mr.Kamal Shah, is Ahmedabad based consultant, assisting to set up Lucrative and new projects.

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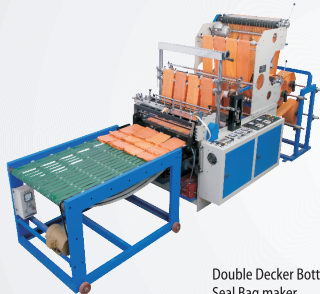
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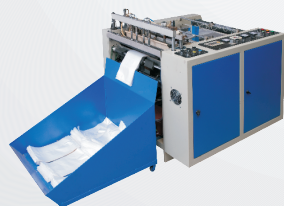
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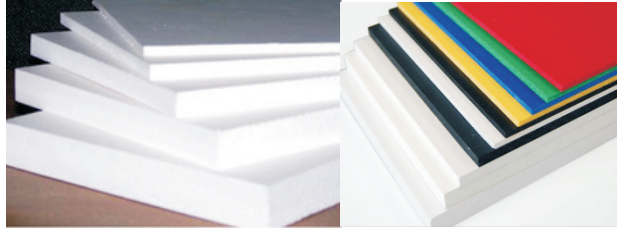
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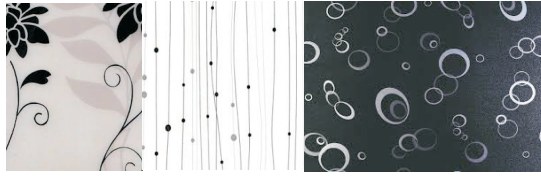


Mr. Kamal Shah

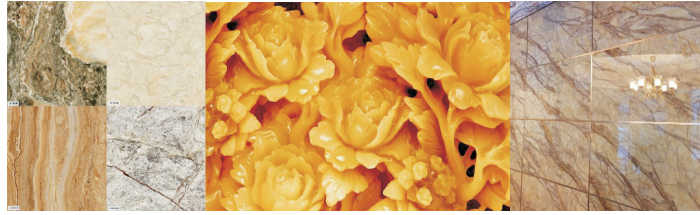
નવાં પ્રોજેક્ટ: પીવીસી ફોર્મ બોર્ડ (પ્લાયવૂડનો વિકલ્પ)



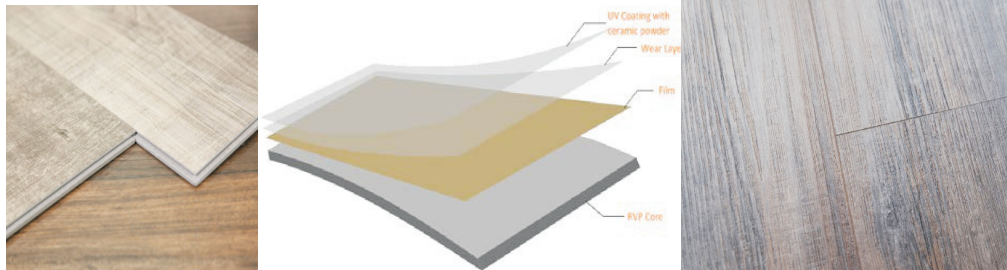
પીવીસી લેમીનેટ (લેમીનેટનો વિકલ્પ)



પીવીસીમાર્બલજેવાંબોર્ડ (માર્બલઅને ગ્રેનાઇટનો વિકલ્પ)



એસપીસી ફ્લોરીંગ (વૂડન ફ્લોરીંગનો વિકલ્પ)



ચાઇના એકલાં મશીનરી લેવાં ઉપડી જતાં લોકો માટે ખાસ:  
મશીનરીમાં કોઇપણ જાતની ગતાગમ ન પડતી હોય તો અને ત્યારે:  
ચાઇનાથી મશીનરી ઉપડી લાવો ત્યારે ધ્યાનમાં રાખવા જેવી બાબતો:

આજનાયુગમાંજ્યારેપીએલસી સંચાલિતમશીનરી ઉપલબ્ધ છે અનેજર્મનીજેવાંદેશ પણ ફક્તપીએલસી સંચાલિતમશીનરી નો જ આગ્રહ રાખે છે ત્યારેઅહીંનાલોકોજૂની ટેકનોલોજી વાળાંડબલાંસસ્તામાં ઉઠાવી લાવે છે.

ખાસધ્યાન રાખો:

- 1) ઉપરોક્તદરેક પ્રોડક્ટ માટે મશીનરીપીએલસી સંચાલિતહોવીજરૂરી છે. પીએલસી પણ મશીનરીનાં આગળ થી લઇને પાછળનાં ભાગ સુધી સુમેળ (Synchronization)સાથે હોવાંજરૂરી છે. જે મોટાભાગની ચાઇનીસ કંપનીપૂરાંપાડતી નથી.

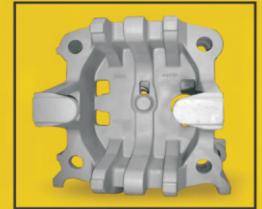
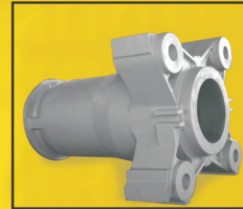
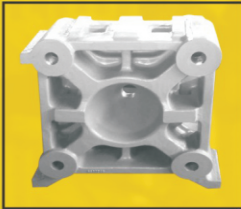
## We Make

- SG Iron / Ductile Iron Casting
- Machined Casting / Components
- Clamping Unit and Injection Unit for OEM

**PROUD TO ASSOCIATE  
SME OEM  
FOR  
MAKE IN INDIA**

### ■ SG IRON/DUCTILE IRON CASTING

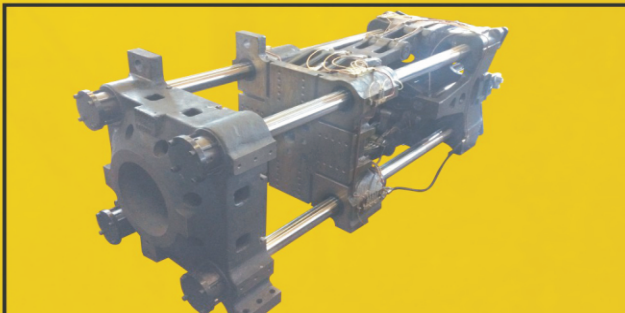
- Standard : ASTM A 536, DIN-EN-1563, IS-1862,  
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- Grade : 400/15, 450/10, 500/7, 600/3, 700/2
- Weight : up to 10,000 kg single piece
- Guaranteed defect free and sound casting
  - Guaranteed metallurgical grade
  - Extend full support from pattern making to finish casting



### ■ CLAMPING UNIT AND INJECTION UNIT

- Launching first time "MADE IN INDIA" CU and IU exclusive for OEM.
- Opportunity for SME to contribute in "MAKE IN INDIA" program.
- Best option of chinese "Clamping Unit" and "Injection Unit".
- Manufactured according to global standard.
- Offer platform to Indian SME to compete globally.
- Guaranteed defect free and sound casting.
- Guaranteed metallurgy warranty.
- No hassle to keep parts inventory.
- If OEM is having regular and bulk requirement, we can supply completely assembled CU and IU as per their drawing.

**available in  
60 Ton to  
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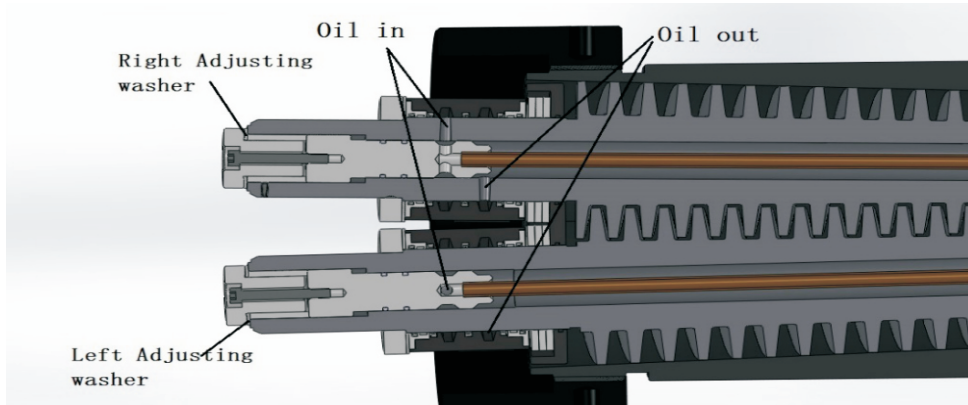
E-mail : [info@heattrans.com](mailto:info@heattrans.com) Web. : [www.ironcasting.in](http://www.ironcasting.in)



2) મશીનરી માંજ્યારેપીવીસીઅનેચૂનોબન્નેપાવડરનાંસ્વરુપ માંવાપરવાનાં હોય ત્યારેસ્ક્રૂ અનેબેરલ ને ખૂબ ઘસારો પહોંચશે. કારણ, આ બન્ને મટીરીયલ મૂળથી હોયગ્રોસ્કોપીક(હવામાંથી ભેજખેંચે) અનેબન્ને મટીરીયલ એબ્રેસીવ( ઘસારોકરતેવાં) છે, જેથી દરેક ચાઇનીસ કંપનીસ્ક્રૂ અનેબેરલક્કત38CrMoAIL મટીરીયલ નાંજપધરાવે છે, જે પૂરતાં નથી. આ મટીરીયલ જાપાનીસહોલુંજરુરી છે, જેનીલાઇફ ચાર ગણી હોય છે.



3) માલનું પ્રોસેસીંગ એ ક્વોલિટી માટે ખૂબઅગત્યની વાત છે. કયાંમશીનમાંઆપનેનીચેનાં પ્રમાણેસ્ક્રૂ માંઓઇલ ફૂલીંગ જોવામળ્યું?



આ શા માટે જરુરી હોયછે, તેનીકોઇને નથી જાણ કેપરવાહ, કક્ત ભાવ મશીનરીખરીદીલાવતાં ટોળાંઓ માટે આવીવાતીનોકોઇ મતલબહોતો નથી. ઉચ્ચ ગુણવત્તાં વાળાં માલ બનાવવા માટે, પ્રોસેસીંગ પણ ટેકનોલોજી વાળુંહોવુંજરુરી છે.

આ ઉપરાંત એ પણ જુઓકે કઇ કંપનીર્જર્મનીકે ફ્રાંસ માંમશીનરીમોકલીશકે છે? ચાઇનામાં કઇ કંપનીનાંઅનેકાનેકમશીનઆપેલાં છે.

પણ. . .આપણાંલોકોને, ઘણું બધુંડીસકાઉન્ટ આપે, એરપોર્ટ થી લાવે, લઇ જાય, હોટલમાંખવરાવી દે, ક્યાંક ફરવાં લઇ જાય એટલે ઓર્ડરએને, આ બહુ જ સામાન્ય વાત છે. અને પછી મશીનનાચાલે એટલે ચીનાઓ ચોર. એવું નથી પણ આપણેમૂર્ખાઓનીજમાત છીએ.

ચાઇનાવાળાંઆપણાંકાકાનાં છોકરાં નથી થતાં, જે તમનેસારીમશીનરીસ્તીઆપે. એ લોકો તમારાથી વધારે હોંશિયાર છે, લાખના બાર હજારકરવાજતીજનતાએઆ ધ્યાનમાંરાખવું. મશીનરીનાઅલગ-અલગભાવો એ લૂંટવા માટે નથી હોતાં. ટેકનોલોજી માટે અથવા કોઇ પણ પ્રકારનીસારીસર્વિસ માટે પૈસાંચૂકવવાં એ મોટાંભાગનાંલોકોનાલોહીમાં જ નથી અને એટલેજ એવાંલોકોલૂંટાય છે.

જયહિંદ.

The Author, Mr.Kamal Shah, is Ahmedabad based consultant, assisting to set up Lucrative and new projects.

[mail@positiveaggression.in](mailto:mail@positiveaggression.in)9624112091 / 9879552875



# SHRI GURUKRUPA ENGINEERING WORKS

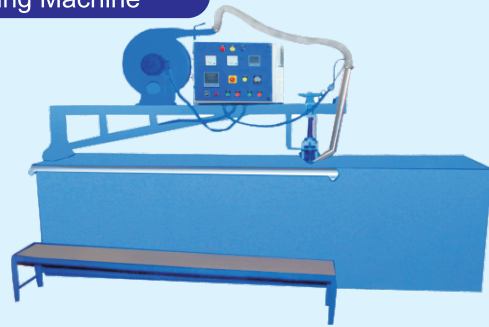
## HDPE TARPAULIN SEALING MACHINE

**Manufacturer of :-** • Poly Tarpaulin Without Pneumatic Sealing Machines • Center Sealing and Side Sealing Machines(Single Head) • Two in One Heat Sealing Machine • Eyelet Machines(Semi Automatic) • Poly Tarpaulin Pneumatic Heat Sealing Machines(Ranges:Single Head to 6 Head) • SRF NYLON & PVC Tarpaulin Sheet Heat Sealing Machine • Sealing & Cutting Machine, LD, HM, HD, Processing Double Die Extruders Machines • Grinders, Mixture & other Plastic Processing Machinery • Tarpaulin Hydraulic Bale Press Machine 10 Ton Capacity

Tarpaulin Center Sealing Machine



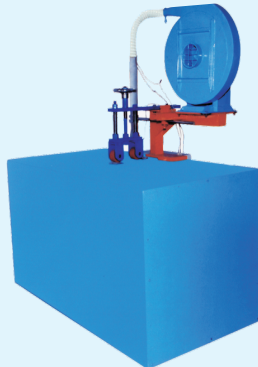
Two-in-One Heat sealing Machine



Tarpaulin Side Sealing Machine



Tarpaulin Mini Heat Sealing Machine



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We are now presenting Foamed sheets, three layered, solid top and bottom layers as thin as thicker papers and in-between there is Foamed PVC + CaCO<sub>3</sub>, the roof are made at mere the following costs which can be mouthwatering.

<b>Total Conversion cost</b>	<b>15.95605754</b>
<b>Material cost Per Kg</b>	<b>67.95</b>
<b>Total cost per Kg</b>	<b>83.90605754</b>

The conversion cost includes heavy cost on marketing ma-force of Quality. The numbers have been worked out with much of scope of squeezing costs possibly at all stages. Have a look at another commercial Data, still interesting.

<b>Cost of sheet 1 Sq M with 0.68 GCC Density and 5 mm thickness</b>	<b>285.2805956</b>
<b>Cost of sheet 1 Sq M with 1.0 GCC Density and 5 mm thickness</b>	<b>419.5302877</b>

What does foaming in the middle layer do actually and why these roof as against traditional metal sheets or even uPVC three layered roofing sheets?

- o Addition of Volume at the least cost,
- o Adds dampening properties,
- o Offers the strength, courtesy ability to make three layers,
- o Colorful variants and still at the least cost of adding colors, Just Two extruders make such A-B-A sheets with mold separator!
- o Does not transmit much of noise of Rain fall,
- o Flexible, does not crack upon Monkeys jumping on it.
- o Heat Transfer is hardly any, courtesy Layers as also foamed thickness of 3 to 5 mm.
- o Variety in offering as per the realization on account of thickness that it can me bade in, the Addition of Filler possibility
- o NO chances of Rusting or some sort of decay as in coated metal sheets.
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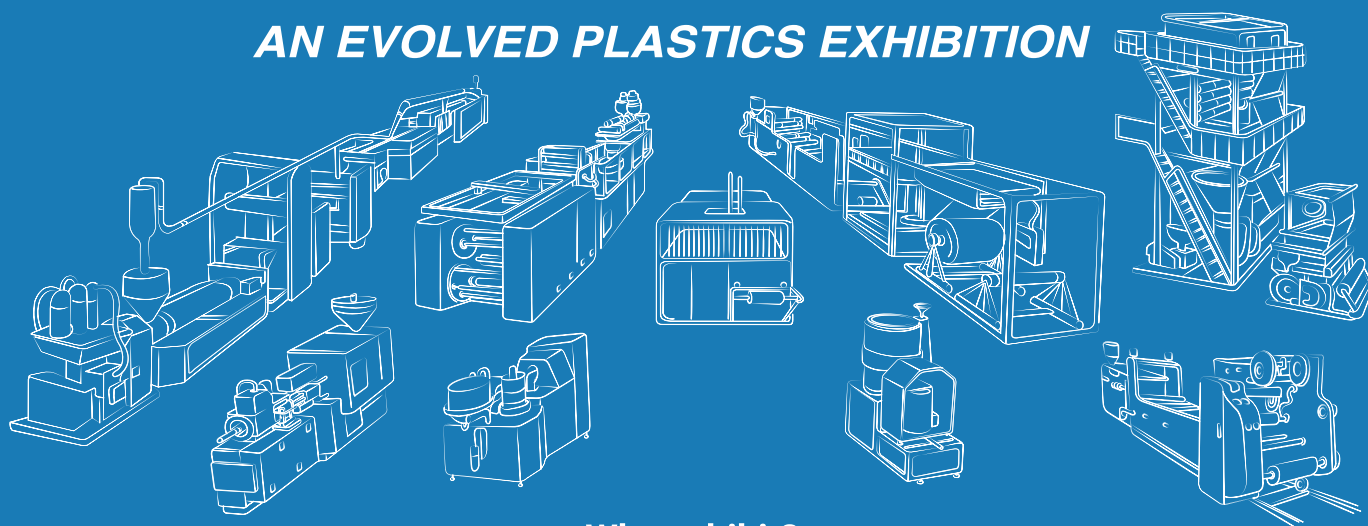
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- Add values with the entry of Competition,
- Market by self, and at high possible costs with the quality product only
- Generate the competition for the existing products with different cheaper material.

Note the most important, Million Dollar Business prospect:

The three layered Foamed PVC roofing sheets- is one such NEW product not in INDIA, even for the country like CHINA, there is no manufacturer of this product.

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**Mr. Kamal Shah**

lors for each INDIAN possible to make! Go for it. The Author, Mr. Kamal Shah, is Ahmedabad based consultant, assisting to set up Lucrative and new projects.  
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# E-Waste Recycling

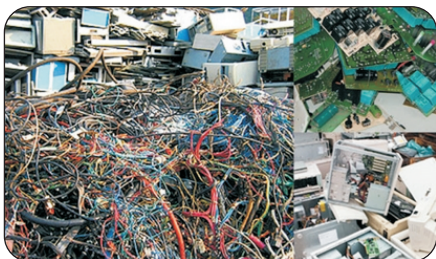
## What Is E-Waste?

Electronics waste, commonly known as e-scrap and e-waste. It is also internationally known as WEEE – Waste Electrical & Electronics Equipments.

E-waste is electrical and electronic equipment of any kind & is the trash generated from surplus, broken, obsolete and discarded electronic devices. This includes practically anything powered by an electrical source (e.g., from a power socket or a battery). Common types of e-waste include the following:-

- Equipments, such as desktop, laptop and tablet computers, mobile phones, computer and mobile phone batteries, peripherals and accessories such as keyboards, modems, monitors, mouse, docking stations, hard disk drives, printed circuit boards, battery chargers, etc.
- Home appliances, such as TVs, fridges, air conditioners, washing machines, rice cookers, microwave and toaster ovens, electric kettles, food processors and blenders, electric fans, DVD/video/music players, radios, vacuum cleaners, etc.
- Other types of e-waste include lamps & lighting, electronic toys, batteries, sports and leisure equipment, etc.

## Different types of e waste



E-waste is mostly made up of metal and plastic components, but also contains small amounts of heavy metals and substances of concern. The wide variety of e-waste makes it hard to generalise the material content –

for example, fridges and air conditioners in particular contain refrigerants to enable cooling to take place, but these refrigerants may also contribute to ozone layer reduction or climate change; the material composition of a mobile phone is very different from that of an electric kettle.

We are creating e-waste at a rapid rate. Some of the most commonly replaced electronics include cell phones (replaced every 22 months), desktop computer (replaced every 2 years), portable music players (replaced every 2/3 years), DVD player (replaced every 4/5 years), printer (replaced every 5+ years), and televisions (replaced every 10+ years).

So, with very short useful life, these electronics transform into e-waste at a rapid pace.

Unfortunately, the majority of these electronic products end up in landfills and just a tiny percentage comes back as/in refurbished/new electronic devices.

## E-waste Hazards

Lots of toxic metals and chemicals are found in e-waste. If they are not treated properly or not recycled in a proper way or even disposed off in landfills can cause adverse effects on human health and environment as they can leach into the surrounding soil, water and the atmosphere. Such waste contains poisonous substances like Lead, Mercury, Tin etc. which give rise to very serious diseases. In view of the environmental problems involved in the management of WEEE, many countries and organizations have drafted national legislation to improve the reuse, recycling and other forms of recovery of such waste. However, the recycling of WEEE is still in its infancy.

## Scenario in India

In present times if we study closely e-waste is one of the fastest growing pollution problems which are increasing in multiple folds than that of municipal waste globally. With the increase in consumption of electronic goods and also with their usage pattern the generation of e-waste also increases. As there is no separate collection system of e-waste in India, no reliable figures are available as yet to quantify the e-waste generation. Now, the situation is alarming as a huge quantity of waste is generated by India as well as other countries. The condition in India is much worse because about 40 percent of the e-waste generated around the world is exported to India under the name of charity. Only 3-5% of total WEEE-waste generated is recycled properly in India. The rest of it is

handled by workers who work with bare hands, without masks under unhygienic conditions, informally recycling tons of e-waste causes both environmental as well as health problems. No. of laws are framed but none is able to stop this informal recycling.

## Sources of e-waste

**Manufacturer:** According to surveys conducted very large number of PC's which are sold all over the country are basically from the secondary market and are reassembled on the old components. The rest of market share cover by MNC's and Indian brands. Manufacturers are major contributors of e-waste. The waste consists of defective IC chips, motherboards, CRTs and other peripheral items produced during the production process. It also includes defective PCs under guarantee procured from consumers as replacement items.

**Consumer:** About small %age of junk computers are generated from Indian household. The routine process of getting rid of obsolete computers includes exchanging from retailers or pass on the same to friends or relatives. The business sector accounts for major %age of all installed PC's in India. The junk computers from business sector are often sold during auction or sometimes donated to educational institutes or charitable Institutions for reuse.

**Import of e-waste:** Import of e-waste is legally prohibited no doubt the reports prove that lots of e-waste is imported from abroad. We do not have any authentic data related to import of e-waste

## Why Recycle E-Waste?

Electronics are full of valuable materials including copper, tin, iron, aluminum, titanium, gold, and silver. Many of the materials used in making these electronic devices can be recovered, reused and recycled, including plastics, metals, and glass. (In a report, Apple revealed that it recovered 2,204 pounds of gold —worth \$40 million—from recycled iPhones, Macs and iPads in 2015).

Recycling e-waste protects human and environmental health. Improper disposal of e-waste leads to environmental pollution and this may in turn harm human health. Recycling e-waste enables us to recover various valuable metals and other materials from electronics, saving natural resources (energy), reducing pollution, conserving

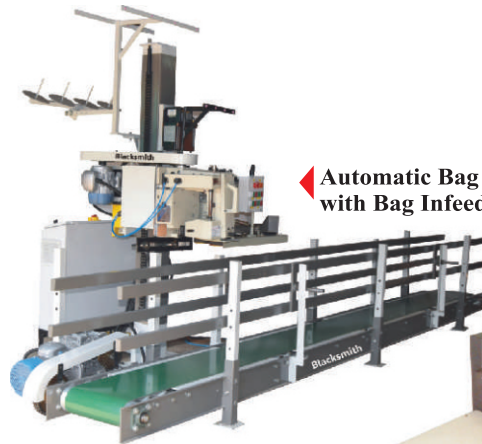
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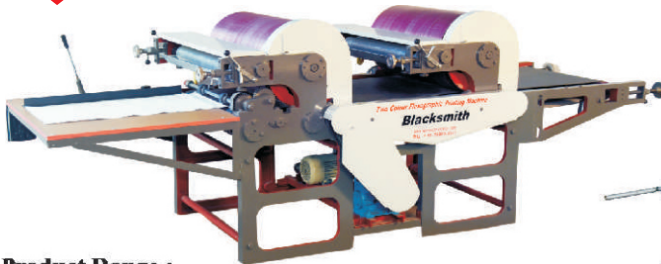


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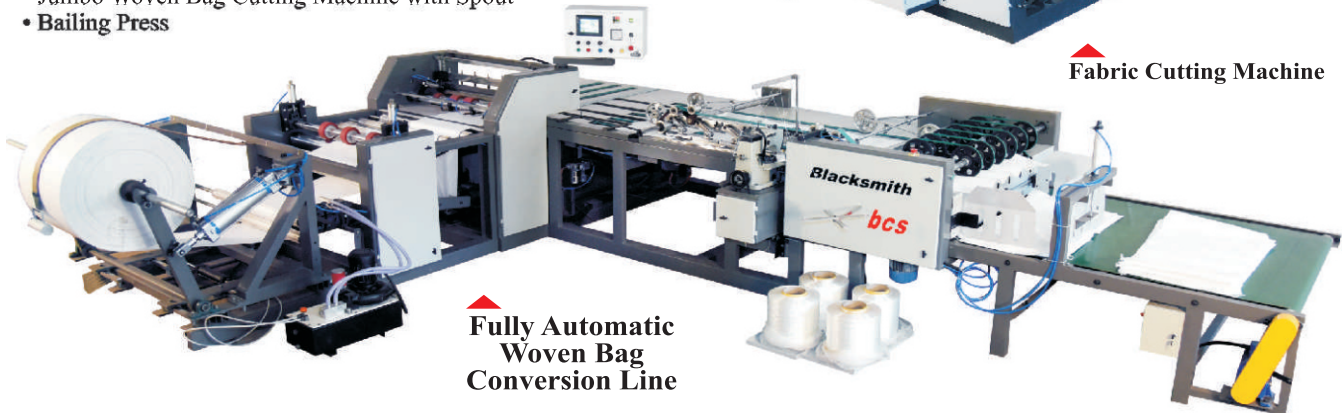


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## E-Waste Recycling

landfill space, and creating jobs.

The best way to treat e-waste is to recycle it properly. This helps to reintroduce valuable material into the economic cycle and also to reduce the scrap quantity to be land filled or incinerated.

E-waste comprises many different components and requires specialised equipment to dismantle, shred, process and extract the constituent materials that can then be turned into new products. This has to be performed within a controlled system to prevent pollution and ensure workplace safety and health.



**Recovered items from e waste after manual dis-assembly–Plastics, Cables, Aluminum, and Steel.**

### E-Waste recycling process

E-waste or electronics recycling is the process of recovering material from old devices to use in new products.

Electronics recycling can be challenging because discarded electronics devices are sophisticated devices manufactured from varying proportions of glass, metals, and plastics.

The process of recycling can vary, depending upon materials being recycled and the technologies employed, but here is a general overview.

#### Collection and Transportation:

Collection and transportation are two of the initial stages of the recycling process

or e-waste. Recyclers place collection bins or electronics take-back stations in specific locations and transport the collected e-waste from these sites to recycling plants and facilities.

#### Shredding, Sorting, and Separation:

After collection and transportation to recycling facilities, materials in the e-waste stream must be processed and separated into clean commodities that can be used to make new products.

Efficient separation of materials is the key factor of electronics recycling. Components containing hazardous substances like batteries, capacitors etc. do not get destroyed substantially, these hazardous items can be manually removed after shredding. Only special components like LCD displays or glass tubes from TV's etc. must be removed in advance. In combination with manual sorting the large sized material fractions can be sorted to valuable commodities with best revenues.

Initial shredding of e-waste stream facilitates sorting and separation of plastics from metals and internal circuitry. So, e-waste items are shredded into pieces to prepare for further sorting.

At the shredding stage the metal parts are separated by magnets and eddy current separators. With manual sorting the material is further processed into end products. In the individual separation stages, various pneumatic, magnetic and electrostatic separation processes are used and adjusted to the individual input fractions, in order to obtain optimum results and high product purities.

Further mechanical processing separates aluminum, copper and circuit boards from the material stream which now is mostly plastic.

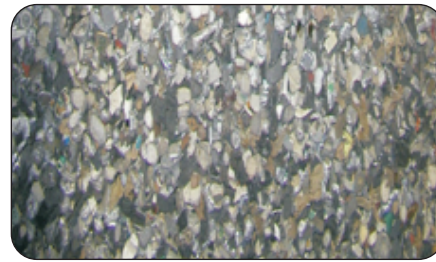
Then, a water separation technology is used to separate glass from plastics.

Visual inspection and hand sorting improve the quality of extracted materials.

The separated streams of aluminum, copper and circuit boards are collected and prepared for sale as recycled commodity materials. Advanced separation technologies are used in the process.

#### Preparation For Sale as Recycled Materials:

After the shredding, sorting and separation stages have been executed, the separated materials are prepared for sale as usable raw materials for the production of new electronics or other products.



**Plastics recovered after recycling**

### Opportunities in E-waste Recycling

In India – e waste recycling is still in very infant stage & also very much with unorganised sector, following areas can be considered as potential areas of business opportunities / involvements to bring it to main stream / organised sector:

**Collection Depots:** The physical flow of electronics scrap starts with authorized collection depots. These depots also act as bottle and beverage can return centres, which generate much more business than the e-scrap side of the operation. This reason, one low-cost way to potentially get into e-recycling might be a collection site.

**Consolidation Points:** Consolidation points are a common tactic in the world of logistics. They allow less than truck load accumulations to be combined into full truck loads to provide transportation efficiencies. The next stop after the collection depot is the consolidation points. At these locations, different products are scaled and cross-docked to create full, uniform loads to send to the recycler. Collectors are paid for their services by end processors, based on that scaled weight. The big way to involve for a company interested in this type of consolidation business.

**Primary Recycling:** At recycling company, incoming products are identified and weighed. Depending on the type of material, it goes through a manual separation process, or a combination of manual and mechanical separation. At such processing sites maximum % of incoming material is recovered, with possibly intension of zero material sent to the landfill. The result is the liberation of clean material that is subsequently sent to other processors.

**Secondary Processing:** Clean material is then sent to other operations for further processing.



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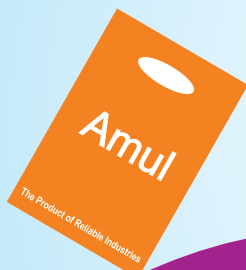


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# E-Waste Recycling

## LESS VALUABLE MATERIALS

Some of that material, such as copper, may generate revenue for the recycler, while other material, such as glass, the recycler will have to pay to have properly processed. One approach to the further liberation of materials is the use of shredding machinery, which tears apart electronic scrap to facilitate liberation of materials. Material extraction is aided by a number of sorting technologies including magnets, vibration, optical devices and eddy currents.

Electronics recycling is definitely a growing industry, but as in many other industries, managing regulatory requirements is increasingly becoming one of the keys to success.

## Challenges for E-waste Recycling

The E-waste recycling industry has a significant number of challenges & numerous obstacles have been identified by developing countries in regard to their ability to manage e-wastes in an environmentally sound way.

### These include :

- lack of easily accessible information (on flows, quantities, available technology, strict standards for minimization and re-use, recycling and recovery)
- lack of trained personnel; inadequate legislations
- inadequate infrastructure for collection, recycling and recovery
- lack of public awareness
- lack of economic alternatives to activities carried out by the informal sector and small family repair shops.

## IMPORTS FROM DEVELOPED NATIONS

Importing e-waste, including hazardous and toxic materials, is leading to serious health hazards for the workers working for dismantling electronic devices without adequate environmental controls. Currently, approximately - 30-50 percent of e-waste that recyclers collect is imported from overseas, including illegally imported e-scrap, which is of particular concern.

Although the volume of e-waste is increasing rapidly, the quality of e-waste is decreasing. Devices are getting smaller and smaller containing less precious metal. The material values of many end-of-life electronic and electrical devices have therefore fallen sharply.

Electronics recyclers have also suffered due to dropping of global prices of recycled commodities, which have decreased margins and resulted in business closures.

### Electronics are not designed for recycling and reuse –

Many products continue to be designed in ways that they are not easily recyclable, repairable or reusable.

### Most E-waste still goes to landfills –

The current rate or level of e-waste recycling is definitely very very low / not sufficient. The current recycling low rate has much room for improvement as most e-waste still is going to the landfill.

## Conclusion

The challenges of managing E-waste in India are very different from those in other countries, both the developed and developing. No doubt, there can be several shared lessons; the complexity of the E-waste issue in India, given its vast geographical and cultural diversity and economic disparities, makes WEEE management challenges quite unique.

A few of these are: Rapidly increasing E-waste volumes, both domestically generated as well as through imports. Imports are often labelled as second-hand computer donations. No accurate estimates of the quantity of E-waste generated and recycled.

Low level of awareness amongst manufacturers and consumers of the hazards

of incorrect E-waste disposal.

Widespread E-waste recycling in the informal sector using crude techniques. E-waste workers have little or no knowledge of toxins in E-waste, and are exposed to serious health hazards. Inefficient recycling processes result in substantial losses of material value.

The major problem we face in India there is no such technology or clear policy/guidelines to check the disposal of e-waste. E-waste is mostly recycled by backyard practitioners.

Recycling of e-waste: Recycling WEEE is an important subject not only from the view point of waste treatment but also in terms of recovery of valuable waste materials. Mechanical/physical processing provides an alternative means of recovering valuable materials but several difficulties exist. The main difficulty, industries have to afford is the separation of the different material in WEEE. This problem leads to several approaches to optimize the process.

One of the most successful is the definition of separation systems based on the physical – chemical properties of materials to make recycling of material constituting WEEE economically profitable. Lots of different types of plastics in e-waste obtained from computer bodies and computer monitors.

The recycling of this plastic waste generally involves low level processing such as granulation or pelletization followed by melt or partial melt and extrusion to form the end product. E-plastic waste rather difficult to recycle: Because of diversity of polymeric materials used. E. g thermoplastics as well as thermosets and relatively high levels of flame retardants added during production. Thermosets polymer cannot be remoulded or reprocessed by remelting. Thermosets composite contain high amount of inorganic glass reinforcement or mineral filler. Fire retardants are used with-plastic material in order to increase fire safety when generates toxic substance during combustion. The miniaturization of electronic equipment reduces the volume of waste make collection, repair and recycling more difficult.

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MaxxVT 560	1	1	525	525 x 1050	15 - 50	180 x 1	9 KW	1200	5 HP	1.5 x 2.5 x 1.8
MaxxVT 560 G	1	1	525	525 x 1050	15 - 50	180 x 1	9 KW	1200	5 HP	1.5 x 5 x 1.8



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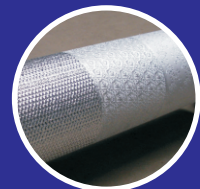
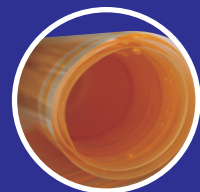


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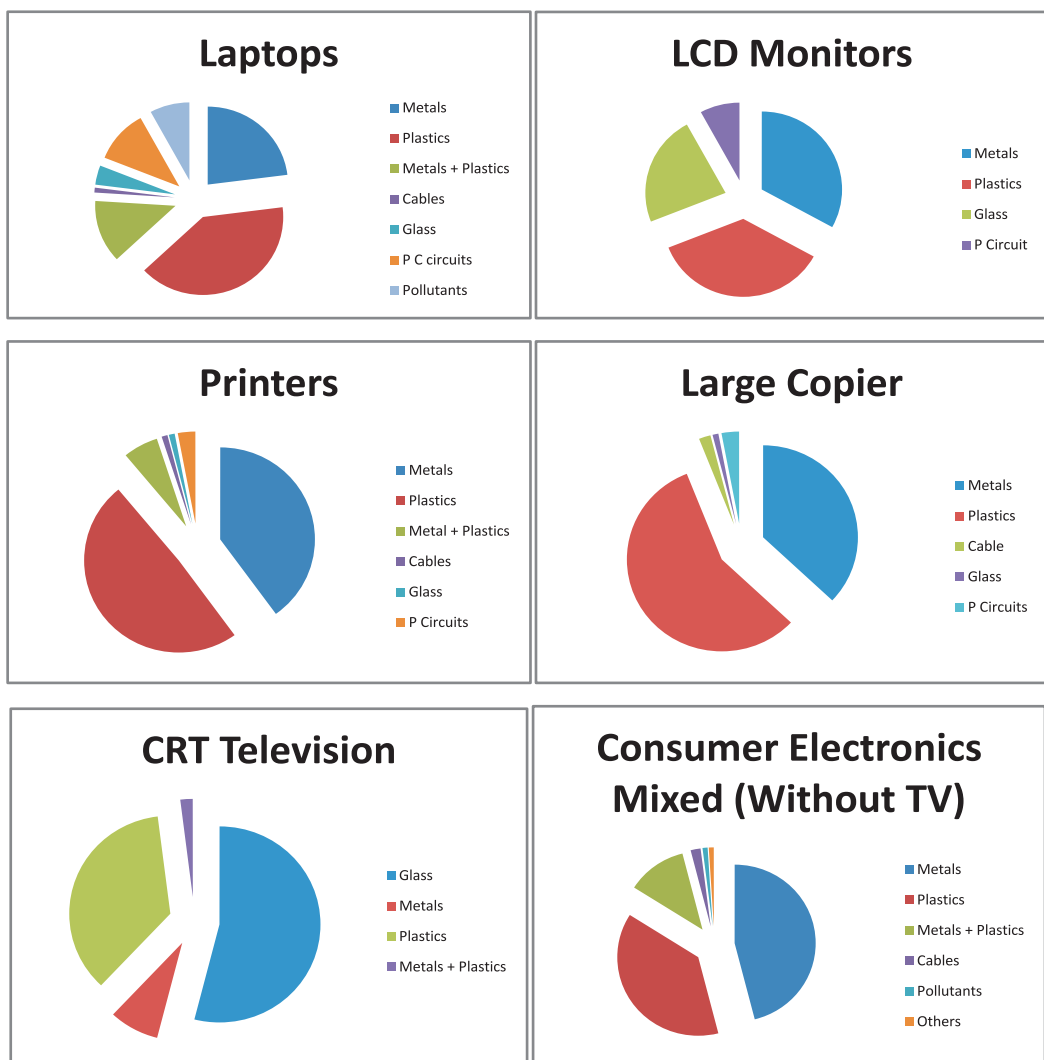
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## General Material Compositions from different WEEE



## Sanat Shah



Plastics Engineer – Passed out in 1977 from the very first batch of Plastics Engineering in India.

Served for different projects in India, Africa & Middle East. Presently serving Plastics industry as a Freelancer “**Plastics Project & Recycling consultant**”.

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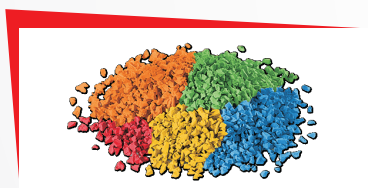
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## PRODUCT RANGE

- Side seal bag making machine
- Bottom seal bag making machine
- Double dacker bottom seal bag making machine
- Roti wrep foil cut to length machine

## ATTACHMENTS.

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- Round punch
- 'D' punch
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- Perforation
- Tap applicator
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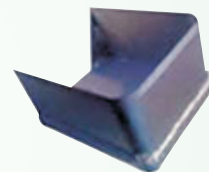
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Punching  
machine



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D. Punch

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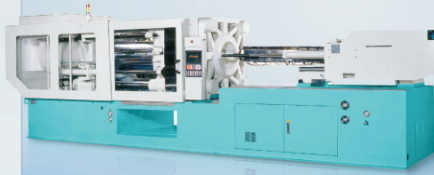
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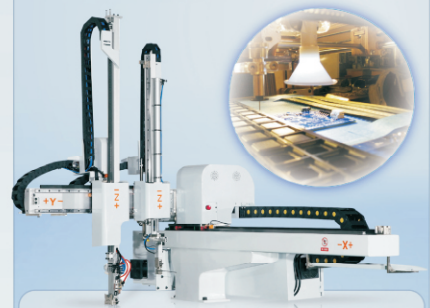
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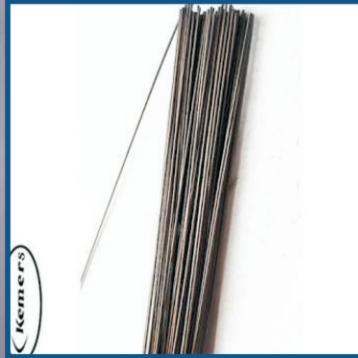
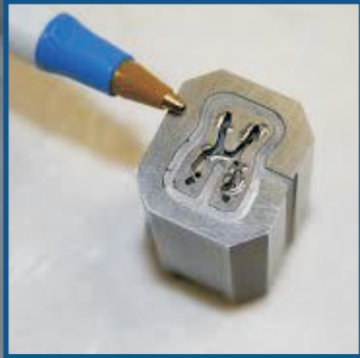
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