







WHY CORRUGATE BEYOND THE BOX?



Primarily
2 Reasons

 There are more players which eventually has eroded margins due to unhealthy competition

2) There's Opportunity out there waiting for us to capitalise.



Paper industry to capture 25% market share of Rs 80,000 crore single-use plastics by 2025

Source: https://www.businesstoday.in/

How cos are gearing up for less plastic in their biz

Invest In Waste Mgmt | Use Paper-Based Compostable Packs

New Delhi: The government's appeal to reduce plastic usage has pushed companies ranging from Nestle. McDonald's, Parle Agro to Amul and Flipkart to search for environment friendly solutions. Swiss food major Nestle, for instance, has incentivised consumers in Dehradun and Mussoorie by giving them a packet of Maggi for every 10 empty Maggi noodles packets. The company is also trying to solve the challenge of serving hot beverages in 100% paper-based options.

Similarly, the maker of Amul-branded products Genarat Cooperative Milk Federation has appointed agencies to pick up multilay er packaging (MLP) packs of ice-cream sticks that are trashed by consumers. "There is a cost involved in doing this and we will be spending the requisite amount. However, this will not be passed on consumers," said GCMMF

Parie Agro, maker of soft drink Frooti, said it will spend over Rs 50 crore in the next three years to implement an end-to-end PET plastic waste management programme. All the recycler plastic will be channelled to textiles and other non-alliding to the company Nadia Chauhan, MD and CMO. Parle Agro, said, "Given

'PET sustainability' investments will most definitely While Flipkart has appli-

our 30% growth rate, our

perforated wrapping purpose and apparutus for manufacturing the same, US burger chain McDonald's has stopped using several single-use

Somand Drivers

Auto DEMs

Plastics Processing

Electrical Equipments

The company's expenses are expected to increase by aro und 7% due to the transition.

"A certain amount of PET bottles may still be recycled as they are in good supply from rag pickers, but 'multilayer' packaging that is used in the food-processing sector to increase shelf life is noto-

India may do better than some lead plastic industry growth peers in managing waste Projected share of global mismianaged waste by 2025 Vietnam III Bangladesh 18 13 Consumer Durables & Flections Sri Lanka 2.5% Japan 8.3-Source Plastingle FOE Currectifindate ora & Ricembero

Most companies aim to riously difficult to recycle. fully comply with their goals And there aren't many costthin the five-year deadline effective options either," said former Cocs-Cola India selves. However, it looks unhead Venkatesh Kinl, who realistic due to supply chain has co-founded a global onliconstraints and the lack of ne aggregator of startups viable cost-effective alterna-Uburitoo, focused on develotives to plastic in the market ping environment-friendly solutions for industries ramp-up stage during the Maggi pouches, for inrollout of alternative solu-

stance, fall in the 'multilaytions, too, is being borne by er' packaging category along with several other products such as shampoo sachets. rware India said it will which account for 70% of all stop using single-use plastic shampoos sold in India. "We for its product packaging. have already started our joand will instead use recyurney towards transition to mono-material packaging

and have initiated produc-

- Maggi noodles and Munch For Maggi packaging, in compliance with the plastic waste management rules, we are currently managing it by either using it as fuel by sending it to cement kilns or by sending it as was te to energy plants," said a

Nestle India spokesperson. Other large consumer s ods companies such as HUL PepsiCo and ITC, which use multilayer packaging, aim to use 100% of packaging that is reusable, recyclable or compostable within five to 10 ye ars. They have currently launched extensive waste management programmes across the country to collect and recycle different forms of plastic waste. Plipkart cla ims to have already reduced plastic application by 25% through initiatives in its packaging value chain. The largest public sector lender State Bank of India, with 22,010 branches (as of March 31, 2019) has proposed to do away with the use of plastic folders and single-use plastic bottles with eco-friendly substitutes across all offices

While India's per capita

onsumption of plastic of

likg per year is low compa red to 109kg for markets such as the US, the problem lies with an inadequate waste nanagement system that sends most plastic into waterways and landfills and eventually into the human foodchain Lastweek, the government clarified that the re is no ban on single-use plastic, and the 'Swachhata Hi Seva' campaign launched by PM Modi is about creating awareness and a people's mo-

Hotels gear up to remove plastic usage

Measures Go Beyond Single-Use Items Like Straws, Bottles To Hangers And Toiletries

of plastic items that are used

in any hotel, according to a

Study by ITC Hotels

150 No. of single use

plastic items among them

act 2 By this date, hotel

Asking guests to opt for

RO water stations than

Replacing miniatures

with bulk size amenities

Plastic straws have

been replaced with

plastic bottles

New Delhi: A couple of years ago, ITC Hotels conducted a study to map the plastic items they had already done away with use of single use plastic rise, the final list was about \$50 plastic items that are used in any hotel. Out of this, 150 tems were single use plastic tems. A large number out of hat was 'front of the house' or

risible and used by guests usage of plastic went way be sond just water bettles and i eeded to be tackled as a who some exercise than merely tating they have done away

len stirrers, cutlery and licone shower caps, steel and vraps for flowers, compostabe garbage bags, glass bottles and wood and steel hangars and clips, chains such as ITC re ensuring steps that comp ely do away with any plastic n the guest area by October 2. nd do away with almost 160

With PM Mod! urging peole to do away with single use away with such usease Intered plastic straws from all proroducts in refiliable ceramic

Lack of ouality alternatives to plastic bottles, provide glass bottles in room, use sustainable and biologradable food packaging and offer bagasse takenovay boxes than plasticor Styrofour pack ging across its hotels such as Ilman, Novotel and Ibis.

At Shangri La's - Eros Ho New Delhi, plastic straws tic stirrers and only hambor rrers are being used at the take away cutlery has repla red single use take away pla tic cuttery. Lemon Tree Hotels has paper straws and cups cork coasters and pencils rat guest area of the botel

products. We are ensuring use ge of glass bottles and 100% recyclable pers in meetings and events spaces, and are repla-cing plastic with eco-friendly substitutes such as laundry and garbage bags," explained Zubin Saxena, MD & VP (pperations), Radisson Hotel Group, South Asia. "Bathroom kits, razor, toothbrush, shirt butis, cutiery sachets drink stirrer, lids on disposable glass. wrapped, plastic was exten vely being used. We decided to plastic free chaln," said H C V Hotels. Lack of quality alterna

guest areas

almost 160 plastic items

022 By this year, PM

Narendra Modi has urged

people to do away with

single use plastic items

Using bamboo reusa

take away cubery

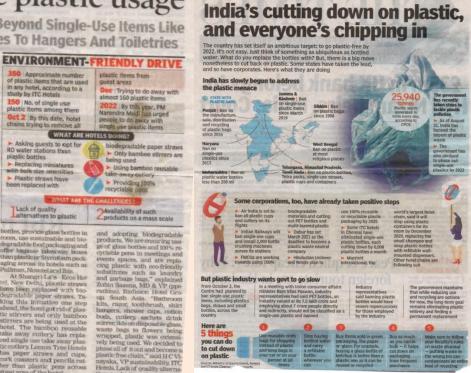
> Providing 100%

recyclable pens

Availability of such

products on a mass scale

being used





All major inventions & successes have been from people who thought outside the box. They ventured to go "where no other man has gone before". But all clichés aside, in order to achieve a goal we will eventually have to step out of our comfort zones.



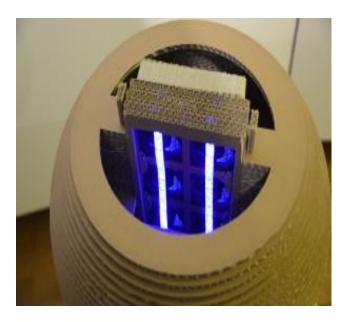
We have been making Boxes, Cartons & allied packaging products. With the advent of technological research & innovations world wide, there are numerous opportunities for the corrugators to diversify. It is in this perspective this presentation 'Corrugating beyond the Box' is being made.

Corrugators can take a plunge in to such new areas, of course through formal technology transfers / collaborations from the respective inventors.



Corrugated Cardboard: Antibacterial Filters for Air Purification

A research study developed & patented by the Milan Polytechnic University shows that filters in corrugated cardboard, which have undergone a proper antibacterial treatment, can purify the air we breathe.







Corrugated Cardboard: DUCTING SYSTEM

An revolutionary, innovative & cost effective product is the future of ductwork systems, made from specially designed Corrugated Cardboard.





Considering advantages, the **Corrugated Board** replace the conventional metal ducting system.

Ducting can easily









Corrugated Cardboard Spools / Reels

Plastic Reel Alternative.
Weight and cost reductions over plastic









http://spool.com/

Sources : https://www.gwp.co.uk/

- * They offer all the benefits of moulded plastic spools but with a number of additional advantages.
- * They are particularly lightweight allowing for easy handling yet remain durable, strong & hardwearing.
- * Suitable for any wound product like cables, hoses, rope etc.



Corrugated Rolls for Garment Packing

A revolutionary patented Rollor Technology uses Corrugated Rolls for crease free Garment packing, shipping or crease-free transit.

How Does It Works

It takes away peoples frustrations of having to appear, or having to accept that clothing arrives in a creased condition after transit or upon home delivery.

It allows clothes to be packed in a compact & crease manner. It makes sure fabric is rolled (no folds) & eliminates the possibilities of pressure.







Cardboard Lamp / Light Shade



Corrugated material being light weight is used in the west for Lamp shades for quite some time now. This can be a good project here too.







Corrugated Lamps change the atmosphere of a space to give it the warm tone of the material.

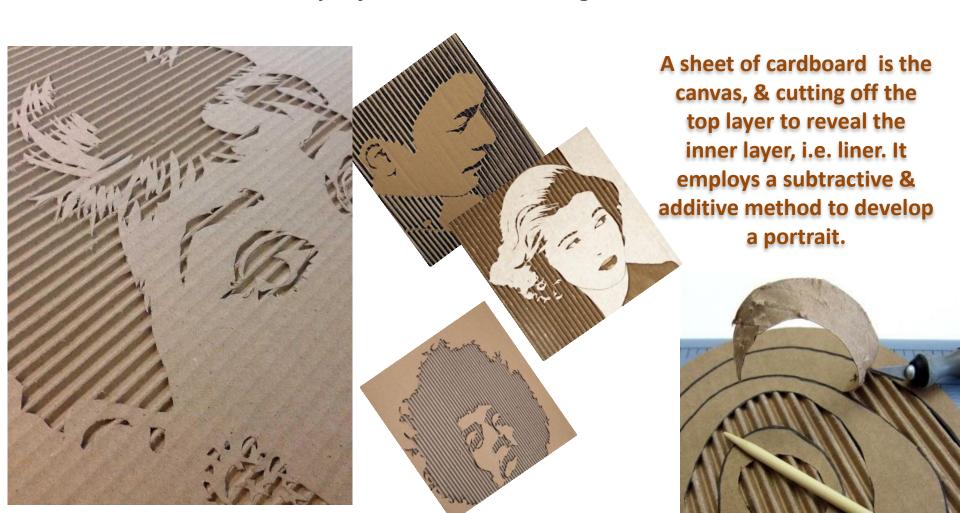




CARDBOARD PORTRAITS

One of the most adorable artistic use of cardboard is constructing portraits & designs.

The project could make a good commercial sense too!





Cardboard T@YS



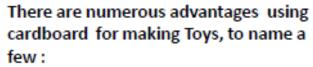
The main argument against cardboard is Durability.

But how long does a

toy has to last?

As long as there is interest, which does

not last long.



Sustainable, Cost effective, Versatile, Customisable,

Creative flexibility, Easy availability,, Free of pollutants















The SKY is not the limit



