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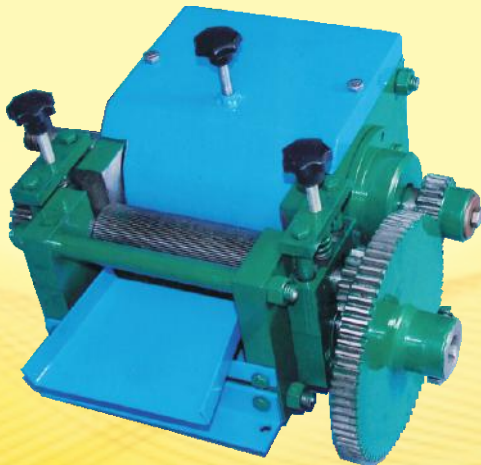
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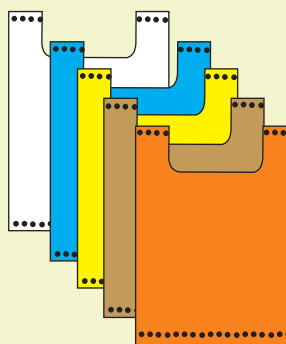
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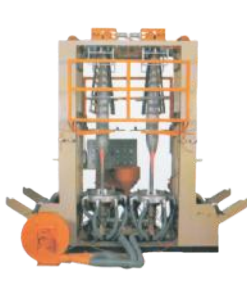
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9th Edition of Plastindia 2015 launched in Pune

PlastIndia Foundation, apex body for plastics in India announced the launch of its 9th edition of the mega trade show PLASTINDIA 2015 at an event in Pimpri, Pune. PLASTINDIA, the international flagship show of the Indian plastics industry gears up to create new milestones by taking the trade show, now to a new and modern venue at Gandhinagar in Gujarat.



Honorable Shri Girish Bapat, Minister Parliamentary Affairs – Govt. of Maharashtra graced the occasion with his presence. The event was led by Mr. Subhash Kadakia, President of PlastIndia Foundation and Mr. J. R. Shah, Chairman of National Executive Council (NEC) Plastindia 2015.

Mr. Subhash Kadakia, President of PlastIndia Foundation said, “PLASTINDIA 2015 will bring global attention to the new venue as an exhibition ground created and developed as per international standards. PLASTINDIA 2015 will facilitate exhibitors and visitors with top quality exhibition infrastructure, accommodation, transportation and connectivity. The new venue is created and developed as per the international standards and will witness world-class consultants, technocrats, and industry experts that will share insights on the innovations in plastics.”

The major demand of plastic comes from industrial town of Pimpri-Chinchwad, Chakan, Talegoan. At present Pimpri-Chinchwad have 150 plastic industries, Chakan - 70, Hinjewadi- 50, Ahmednagar Road - 100 and Piranjut around 100 industries. The average per person plastic consumption of each in India was 5 kg which has now gone upto 7.5 kg. Overall economic reforms have opened the doors for the entry of large number of multinationals that were already major users overseas of various plastic materials.

The six-day mega event, PLASTINDIA 2015 will reveal the cutting edge technological developments, equipments and products. PLASTINDIA 2015 takes further the innovations from the earlier version, in that; it will concurrently host PROPLAST 2015 and an International Conference to draw the attention of the entire business fraternity. Eminent academicians, consultants, professionals, technocrats, research scientists and industry experts will participate and share their views during various seminars.

About PlastIndia Foundation

Plastindia Foundation is the apex body of major associations, organisations, and institutions connected with



plastics, with common objectives to promote, the development of plastics industry and to assist the growth of plastics and related materials and their products. The Foundation is dedicated to the national progress through plastics. Their programs include:

- ◆ Exhibitions at national and international levels
- ◆ Seminars & Workshops
- ◆ Research & Development activities including market research, scientific research and statistical surveys and analysis
- ◆ Educational training courses and man-power development programs
- ◆ Lecture tours, study tours and sponsored delegations
- ◆ Publication of periodicals and reports

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C O N T E N T S

BUSINESS NEWS.

- 13..... 9TH Edition of Plastindia 2015 Launched in Pune
- 15 Gujarat Govet. Announce Scheme for Assistance to
Industrial Unit
- 15 Exhibition Detail
- 16..... Trade Fairs Staged in Cologne and in Growth Market
around the World
- 18..... Plastindia 2015 Gets More Exhibitors From Spain
- 20..... Plastindia 2015 Launched Mobile App for Easy Access
of Info And Convenience
- 20..... Plastindia to get Major Visitor From Asia
- 21..... Plastindia will Be Coming Up With the Innovation
Pavillon
- 25..... Teknor's Colourful New TPE for Electronic
- 26..... RTP Company acquires production Facilities From
Alloy Polymers
- 26..... Suez Environnement Opens Lab for Plastic Recycling
- 36..... Making It in Bioplastics Solegear's Toby Reid Talk
about the industry's Challenges and Chance
- 37..... Various Assistance to Micro Small And Medium
Enterprises (MSME)
- 39..... Swachch Bharat Through Plastic Waste

TECH GUIDE

- 01..... Oxbiodegradability

General Talk

- 44 General Message

Gujarat Government Announces Scheme for Assistance to Industrial Unit Purchasing Plant & Machinery during Plastindia 2015 Exhibition

The Government of Gujarat, with supportive efforts from Hon'ble Minister, Mr. Saurabhbhai Patel, has approved and come out with a government notification vide G.R. No. MIS-102014-838475-P dated 24.12.2014 for the said scheme.

The Government of Gujarat intends to promote the state as a globally competitive and innovative industrial destination that stimulates sustainable development and inclusive growth. It desires to proactively support development of industries, value addition on available raw materials and increasing the share of Manufacturing in State GPD. There are more than 200 trade fairs (International and National recognized) that take place in India in sectors related to Industries and machinery manufacturing. As a means of meeting aforementioned objectives, Government intends to promote Industrial Exhibitions/Trade fairs and sale of plant & machinery displayed in these to the industries located in the state. Government wishes to take lead in sale of machinery in "Plastindia 2015" on pilot base.

Government is pleased to introduce a Scheme for Assistance to industrial units purchasing Plant & Machinery during the exhibition Plastindia 2015 being held at Exhibition Ground, at Mahatma Mandir, Gandhinagar from "5th Feb 2015 to 10th Feb 2015" which will come into force from date of issue of this GR and will remain in operation upto 31/03/2015.

Industrial Unit means one that has obtained acknowledgement of filling Entrepreneurs Memorandum (EM) with the concerned DIC or Industrial Entrepreneurs' Memorandum (IEM) with the Government of India for manufacturing of one or more products in the state of Gujarat. All participants are requested to avail the benefit.

☒ Assistance @ 5% of Value of machinery purchased from Gujarat based machinery manufacturer during "Plastindia-2015" Exhibition by Industrial unit or Rs 100 lakhs whichever is less.

☒ Assistance @ 3% of Value of machinery purchased from machinery manufacturer other than Gujarat based manufacturer, during "Plastindia 2015" Exhibition by Industrial unit or Rs.75 lakhs whichever is less.

☒ The assistance will be only for machinery value fixed at the time of booking during the exhibition or actual value paid whichever is less.

☒ Only basic value and exercise duty will be considered as Value of machinery and will exclude the cost of guarantee and warranty fee, transportation, installation & erection costs and other taxes.

☒ The industrial unit purchasing machinery for expansion/diversification/modernization will also be eligible

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Exhibition Detail.

Name of The Exhibition	Place	Date of the Exhibition.
Plastic Myanmar 2015	Tadmadaw Yongon Myanmar	3 to 5 th April 2015
China Plast Show-2015	Pazhou Gungzhou	P.R.China 20 to 23 MAY – 2015
Kenya Plast	Narobi (Kenya)	10 to 12 June-2015
Plastic Vietnam-2015	SECC, Hechi Minherty Vietnam	23 to 25 July 2015-01-14
T.Plas (Plastic & Rubber)	BITEC Bangkok Thailand (W-tplas.com)	26to29 Aug2015
Iplex – 15	Bangalore	25 to 27 Sept-2015
IndPlas	Science City Ground Kolkata	27 to 30 November 2015
Plexpo	Gandhinagar (Gujarat)	8 to 13 January2016
Plast Asia-2016	Pragati Maidian DELHI	4 to 6 th March-2016

Trade fairs staged in Cologne and in growth markets around the world

At the upcoming **Anuga FoodTec** event taking place from 24.3. to 27.3.2015 in Cologne, the international supplier trade fair is exhibiting innovative solutions for the food and drinks industry - from the initial processing steps through to complex technological workflows. Additionally to **Anuga FoodTec** Koelnmesse organizes a large number of trade fairs devoted to food and beverages. These events are held not only in Cologne but also in growth markets all over the world — in locations such as Bangkok, Beijing, Curitiba (Brazil), Dubai, Istanbul, Mumbai, New Delhi and Tokyo. Especially through **Anuga**, the largest and most important global trade fair for food and drinks, Koelnmesse has earned its reputation as an organizer of pioneering international trade fairs. The **International Sweets and Biscuits Fair (ISM)** and **Anuga FoodTec** are also international market leaders in their respective segments.

With around 6,700 suppliers from nearly 100 countries and almost 155,000 trade visitors from about 180 countries, **Anuga** is the world's biggest and most important fair for the international food and beverage trade. It takes place every two years in Cologne. As the leading trade fair for the sector, **Anuga** reflects all the significant market trends and developments.

The **International Sweets and Biscuits Fair (ISM)** takes place once a year in Cologne, in either January or February. This trade fair is actually a spinoff of **Anuga**. In January 2014, more than 1,400 suppliers and

over 35,000 buyers were once again welcomed to the most recent ISM. Since 2006, **ProSweets Cologne**, the supplier trade fair for the confectionery industry, has taken place in parallel with ISM. These trade fairs complement each other in terms of both their content and their target groups. Through this trade fair concept, the theme of confectionery and snack items has been systematically expanded in Cologne.

A small but very concentrated trade fair that is exactly tailored to its target group is **Eu'Vend + coffeena**, which focuses on the growing vending market—the sale of products by means of vending machines—as well as the dynamic market for coffee and coffee-related products. This trade fair also takes place every two years.

Anuga FoodTec, the International trade fair for food and drink technology, is also a satellite event of **Anuga** and is equally successful. **Anuga FoodTec** takes place every three years in Cologne—most recently in spring 2012, when 1,320 exhibiting companies from 41 countries got together with over 43,000 trade visitors from all over the world. As the only event of its kind worldwide, **Anuga FoodTec** presents all aspects of the processing, packaging, storage and distribution of food and beverage production, as well as hygiene-related technologies, to all segments in the sector. The next **Anuga FoodTec** will be held in March 2015.

Thaifex - World of Food Asia in Bangkok is one of our many international trade fairs held abroad. With around 1,500

Trade fairs staged in Cologne and in growth markets around the world

suppliers, it is an extremely successful trade fair that has become a central trading platform in Southeast Asia. Thaifex - World of Food Asia has been held since 2004.

In China, Koelnmesse stages in November 2014 the new **World of Food Beijing**. This trade fair is likewise based on the successful Cologne trade fair concept. Sweets & Snacks China will be comprised as a special segment. World of Food Beijing is tailored to the special needs of the Chinese market and is staged in cooperation with local organizations. Thus it will be positioned as the leading food fair in Northern China.

Koelnmesse also stages **Wine & Gourmet Japan** every year in Tokyo. **Sweets & Snacks Middle East** is the Koelnmesse trade fair in Dubai. Here Koelnmesse reaches the promising growth market of the countries in the MENA region.

India is another very important mainstay of Koelnmesse's international activities. In Mumbai Koelnmesse has organized the **Annapoorna - World of Food India** trade fair since 2006. It is set up as pure business to business platforms in order to bring together supply and demand in the Indian food and beverage market. This trade fair has become well established and, in addition to

the product ranges presented by the exhibitors, it offers a number of services such as a match-making programme. The supporting programme provide true added value for the participants and provides them with expert knowledge about the markets and information regarding legal requirements. Other Koelnmesse events that take place in India include Dairy Univers India.

IIDE - India International Dairy Expo and **International FoodTec India**, the Number One event for food and beverage technology in India.

In August 2014 we staged a new trade fair for the Brazilian market to a very promising effect: **International FoodTec Brazil** in Curitiba. 81 exhibitors presented their tailor made concepts to around 3,000 food industry managers from Brazil and neighbor countries.

May 2015 will see the launch of ANUFOOD Eurasia - a new international platform for the food industry in the key commercial hub of Istanbul. It is set to become the leading event in the Turkish, Balkan, CIS and MENA regions and will cover the full scope of the food and beverage sector.

Through these globe-spanning activities, Koelnmesse offers its customers a network of events that give them access to a number of different markets and thereby create a basis for stable and sustainable international business relations. Many of these trade fair themes complement one another and offer the synergies, knowledge and contacts that are important for all companies.

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Plastindia 2015 Gets More Exhibitors from Spain

Plastindia Foundation team visited Madrid, Spain met Ms. Pilar, Marketing Assistant, Indian Embassy – Spain, Madrid and Mr. Gaurav who looks after various information and discussed and informed about Plastindia Foundation and Plastindia 2015 show at Gandhinagar in February 2015. Mr. Gaurav assured Plastindia Foundation complete help from the Indian Embassy in Spain and will keep His Excellency the Ambassador informed about this Exhibition; however his Excellency the Ambassador together with his second officer were not available. Ms. Pilar fixed up appointments for Plastindia Foundation and accompanied the Plastindia Foundation team for the meetings with ANAIP / CEOE. Ms. Pilar will also meet ICEX (Institute for Export) and inform Plastindia Foundation the outcome of the meeting.

Plastindia Foundation Team then met Mr. Alvero Gallengoa – General Manager, Spanish Association of Plastics – ANAIP and presented details of Plastindia 2015. ANAIP is an association in existence from 1945 and has about 450 members with nearly 95% of the members being convertors. ANAIP works for the plastics in food / packaging / pipes / recycling / environment / REACH etc. ANAIP is also associated with CIPAD (Council of International Plastics Association) and with CEOE Spain which is like CII of India. The President of CEOE is also an owner of a Plastics Industry. Mr. Alvero Gallengoa requested for Plastindia brochure in Spanish language for their members and assured Plastindia that they will organize the meeting with various speakers on the Opportunity in India for Plastics, ANAIP will discuss the matter internally and keep Plastindia Foundation informed on the progress they have made regarding participation / visiting Plastindia 2015. Also there were discussions regarding Investment and Promotion of India in Spain especially for Plastics.

According to ANAIP all major Raw Material manufacturers have transferred their membership to a New Plastics Association located in Brussels. Till some years ago ANAIP was a Confederation with National and Regional branches and recognised by The Ministry of Industries. The Spain Plastics industry is about 5 MMT with a Turnover of Euro 17000 Million; however the consumption of Plastics is down by about 28% resulting in 4 MMT with a Turnover of Euro 11500 Million.

Finally Plastindia Foundation Team Met Mr. Alvaro Schweinfurth Enciso – Deputy Director, Confederation of Employers and Industries of Spain – CEOE, Foreign Policy and Multilateral Relations Department. CEOE is a very powerful body in Spain, they represent various Spanish Industries like Agriculture, Banking, Construction, Plastics, Metals etc. CEOE is linked to about 240 Business Association and 150 Big Spanish Companies. It is also associated with FEIQUE

(Spanish Chemical Association) ANAIP etc. They are B2B invited members of Business Advisory Committee of Spain (BIAC). They negotiate with Labour / Government etc on matters concerning Wages, Laws, Rules, Taxes, Environment etc at local levels, Country levels and International levels.

Since ICEX and ANAIP are part of CEOE as members, they will talk to their members regarding Plastindia 2015 and the participation of Spanish companies as Exhibitors / Visitors. They have assured Plastindia Foundation Team for all necessary help as and when required.

www.plastindia.org

Courtesy

Plastindia 2015 Gets Good Support from Italy

Since Mario Maggiani, General Manager was not in Italy attending conference in Mexico, Plastindia Foundation team met Stefania Arioli and Fabrizio Vanzan of Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers' Association (Assocomaplast) and make a presentation of Plastindia 2015 show and its venue. Assocomaplast is hoping to have a good exhibition in India to further Plastics trade between Italy and India. Assocomaplast have requested Plastindia Foundation to participate at their MilanPlast Exhibition in May 2015 as an exhibitor and invited Plastindia Foundation team to be present there and get a first hand details of the Italian Plastics Industries.

Started in 1960, Assocomaplast is one of the biggest Industries Association in Italy for Plastics and Rubber; there is also a separate Processing Association. Assocomaplast represents about 150 Italian companies and hold Seminars, B2B meetings, Exhibitions etc and also publishes their in-house magazine. According to Assocomaplast the Italian Plastics Industry is about 5.3 MMTs with about 5000 big and small processing companies with a Turnover of about Euro 15 Billion.

Details of Plastindia Foundation as well as Plastindia 2015 were shared with Mila, Marketing Assistant, Consulate of India, Milan at the Consulate. Detailed brochures of Plastindia Foundation / Plasticon Awards / International Conference / Proplast / Status of Indian Plastics Industry / Walk Through / AV of Plastindia 2015 were handed over to the Consulate. This Consulate is looking after the promotion of Trade between India and Italy. In fact the Consulate has agreed to put Plastindia Foundation logo on their Official Website as well as Facebook page and other Medias. The Consulate is also willing to assist and help for Indian Visa, especially for Plastindia 2015 and have informed Plastindia Foundation Team to inform Assocomaplast

and other organization for the same. For any other help required, Plastindia Foundation can contact MEA person in Rome – Dr. Madan Sethi – First Secretary Commerce.

Further the consulate requested that Plastindia Foundation and Plastindia 2015 brochures be handed over to them and they will distribute it to the necessary Associations / Organisations and even to the Italian Industry Ministry. The same was handed over to them. Plastindia Foundation Team was informed of the Exhibition – IPACK-IMA to be held in Milan from 19th to 23rd May 2015 and suggested Plastindia Foundation to participate.

Plastindia team also met Massimo Pegoraro – CEO, Italtech Plastics Technology a part of India's Windsor group and informed about Plastindia Foundation / Plastindia 2015 and related details. Italtech are into Injection Moulding Machines and Moulds a number of their machines and furniture moulds have been sold in India and they now continue doing good business.

Massimo Pegoraro said since Windsor will be exhibiting at Plastindia 2015 I will also be present at their stand. Massimo Pegoraro further added Italtech has good relationship with some Italian Plastics Association like Assocomaplast, UCIMO (Italian Association of Tool Makers) etc and have assured Plastindia Foundation Team all the necessary support and propagating Plastindia 2015 which will be great help for Plastindia Foundation.

www.plastindia.org

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Platindia 2015 Launched Mobile App for Easy Access of Info and Convenience

Plastindia 2015 is not missing any single opportunity to utilize the technology for promotion; now they have come up with Mobile App. App's now days are trending in the world market many major companies, institutes, organizations and others are using it. Plastindia 2015 app was launched in Gujarat by Mr. J. R. Shah, NEC, Chairman Plastindia foundation; More than 700 people witnessed the same.

Mr. J. R. Shah briefed about the App he said the app will be helpful in every manner from entry gates to exit gates. The especially designed app will help the visitors and exhibitors by fixing up appointments, identification of exhibitor of your interest. He elaborated that this app will also give you the information about the concurrent and special events.

In his closing speech he said don't wait for the muharat just download the app for your convenient and let us meet back at the grand gala exhibition.

Courtesy

Plastindia Promotion a Great Success at Varanasi

Plasindia Foundation organized a promotion camping for Plastindia 2015 at The Gateway Hotel Taj, Varanasi, Uttar Pradesh, India. The organizers were expecting around 50 industry representatives which were well attended by 80 industry representatives from the plastic sector in and around Varanasi. Most of them who attended the event were processors and traders from Gorakhpur and other cities of Uttar Pradesh, India.

Chief Guest of the event Shri R K. Choudhary graced the occasion; he is a leading industrialist of Varanasi and is running a successful Woven Sack manufacturing unit at Jagdishpur and Rewa. Apart from this he is also Managing Director and Chairman for a paper mill and big plastic unit in Varanasi. He is a highly respected citizen and also member of the leader of the plastic industry in Varanasi.

Mr. V B Lall informed the gathering about the salient feature of Plastindia and advantages of the new venue Ghandhinagar, Ahmedabad. Mr. Rahul Jain, committee member gave a brief description on the venue advantages and concurrent events. Plastindia Foundation also screened the Plastindia 2015 film and some presentation on venue. Mr. R.K. Choudhary was highly appreciated of Plastindia Foundation initiative in calling the plastic industry of Varanasi for the presentation.

The function was prominently covered by India's leading business newspaper, Business Standard and some leading Hindi dailies.

www.plastindia.org

Courtesy

Plastindia to Get Major Visitors from ASIA

Plastindia is getting overwhelming response from neighbouring countries like Bangladesh, Nepal and Srilanka as business visitors. Essentially these people will be potential buyers not only of Indian machine but also of Indian Processing technology.

Mr. J. R. Shah, Chairman, National Executive Council, Plastindia 2015 said that most of the visitors will be visiting from the nearby countries and we are hopefully thinking of getting good business through these visitors. Not only from Asian countries are we also getting good visitors from overseas.

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Courtesy

Plastindia Will Be Coming Up With the Innovation Pavilion



For the first time Plastindia will be coming up with the innovation pavilion. The Pavilion will be located in a prime area at the Plastindia Expo 2015. The Pavilion will be an exclusive showcase of 'invited' leading innovators in plastics and will provide space for display of technology/ process or material to each selected participant from the industries/ institutions/ research scholars/ scientists / students engaged in the business of plastics.

The pavilion will provide display of big products for audience to 'Touch & Feel' them. The innovation can be simply also displayed on a LCD TV for further discussion with customers. There will be Display Stations a unique showcase for only 44 top innovators.

The Pavilion will also have a unique section called "LAUNCHPAD" where organisations can use the conference space to launch their new INNOVATIONS and invite their customers/ media/ etc. to participate, and to create a more formal "one-one interaction with buyers"

Students / Colleges can showcase their research posters at an exclusive "gyaan kendra" kiosk. Plastindia Foundation, THROUGH INNOVATION PAVILION offers a

unique opportunity for post graduate students involved in polymer research to present and show their research work through interactive e-posters.

Student's research poster will be presented in electronic format at the gyan Kendra located. The initiative has been promulgated by plastindia foundation to encourage young talent & promote path breaking, innovative research amongst visitors at Plastindia 2015.

It's been the constant endeavor of Plastindia Foundation to bring forth a showcase that helps promote plastics and brings about change in perception amongst people that make plastics and people who use plastics.

The Innovation pavilion is an attempt to create a significant showcase of the vast and rapid advancement that has been done in the field of plastics, be it raw materials, processing, machinery or finished goods.

The pavilion is aid to help the fraternity of makers and users of plastic to understand the trends and future of plastics and have a firsthand look and opportunity to interact with the leading innovators in the plastic industry.

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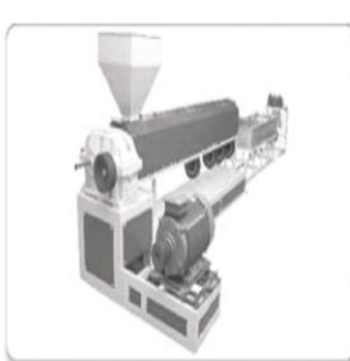
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Plastindia is offering Special Facilities for Exhibitors and Visitors

The organisers of Plastindia 2015, India's biggest plastics trade fair offers special benefits to its exhibitors and visitors. Travel to Ahmadabad will be smooth as Emirates is having weekly flights to Ahmadabad from Dubai. Dubai is well connected with all foreign countries. Emirates are offering 10% discount to all Visitors and Exhibitors attending Plastindia 2015. Simultaneously Jet is also offering 10% discount.

The organisers have appointed Akshar Travels a leading and trusted service provider of domestic tour packages, international tour packages, domestic hotel booking services, international hotel booking services, passport, visa services, domestic air ticket booking, international air ticket booking services, car rental services etc from Gujarat for services to the Exhibitors and Visitors.

The organisers have also assured enough ground transportation which will be available in the form of Taxis & SUV's. Free Shuttle bus services will be available from parking place to Exhibition Grounds.

The organisers have also obtained Liquor permit/Permission from the authorities for the exhibitors and visitors of the Plastindia 2015 show. 24 Hours WIFI facilities will be available in the Exhibition Ground. To encourage the visitors entry fees has been kept at bare minimum: reasonable & affordable. The Government of Gujarat has announced special incentive to Machine manufacturers towards rebate on VAT. All the special facilities can be availed through Plastindia website

www.plastindia.org

Courtesy

Plastindia 2015 Concurrent Event Is Getting Overwhelming Response

There is an overwhelming response for the concurrent events of Plastindia like Plasticon Awards, Proplast and International conference.

'Plasticon Awards' the most prestigious awards for the plastics industry, practicing professionals and students to felicitate excellence and innovation in the field of Plastics. The 7th Edition of Plasticon Awards will cover the entire spectrum of the Indian Plastics Industry. It will be given across 25 different Award Categories, including three new categories for Indian Participants and four for International Participants.

Mr. Ajay Desai, Chairman, Plasticon Awards 2015 said the competition has reached a new level, Plasticon has also gone online, enabling participation with click of a button, and with this entries this year outnumber those of the yester years.

There will be a two-day International Conference on the theme "GATEWAY TO INNOVATIONS. This is particularly relevant in current context as Indian plastics industry is driving towards specialty products and positioning plastics in innovative applications. While the presentations and business sessions would revolve around this theme, this Conference will be an ideal platform to explore the ideas, uncover the solutions and develop the opportunities thus making it the largest and most highly respected event of the industry.

Mr. S. K. Ray, Chairman, International Conference said the International conference is getting tremendous response from the industry people. The conference will be a delight to the attendant of the conference as there are many distinguished speakers from India and overseas who will be speaking on the special issues.

Proplast will showcase India's burgeoning plastics processing capability and it demonstrates high standards that are consistently being delivered by Indian processors across the globe. Major international retail chains make it a point to be present at Proplast and see what India has to offer.

PlastIndia 2015 concurrent event Proplast, is the heart of India's plastics industry. This will have its own dedicated pavilion of more than 5,000 square meters and this pavilion will display one of the finest processing capabilities from across India.

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Teknor's colourful new TPE for electronic

US-based Teknor Apex has introduced a new series of Monoprene TPEs for colourful consumer electronic components such as in-ear headphones, computer mice, fitness trackers, and smart watches.

Teknor states that at the NPE 2015 exhibition in the US in March, its consumer electronics series of compounds

which are part of the Monprene family of TPEs, will be introduced. The company highlights that products in the series are resistant to skin oil, stains, household chemicals, and UV light. They are also free of latex, phthalates, BPA, and heavy metals.

Teknor says its formulation has made it possible to choose from a wide array of surface properties and states the compounds can be supplied in light, natural-coloured pellets or custom-coloured to match any requirement.

"Monprene compounds for consumer electronics derive from commercially proven TPEs in markets where Teknor Apex has longstanding expertise, such as medical, wire and cable, personal care, and safety products. Building on this experience, we have developed property portfolios optimized for electronics applications that involve prolonged use in intimate human contact," said Brian Mulvany, senior manager of consumer, industrial, and electrical markets for the company's Thermoplastic Elastomer Division.

Courtesy



Fitness trackers are a target market for the TPE materials

Aero Plast launches Polish PE stretch film plant

Polish manufacturer Aero Plast has opened a new production facility in Chelmża, in Poland's north-western region of Kujawsko-Pomorskie. The plant will make PE stretch film for the agricultural sector, reports local news site Farmer.pl.

The factory has an output capacity of about 5,500 tpa. Fitted with a total production and storage space of 6,000 square metres, the plant is operated by a staff of 16, according to data released by the manufacturer. The amount of the latest investment was not disclosed by the firm.

Chelmża is located about 21 km from the Polish city of Toruń.

Aero Plast is a subsidiary of local industrial group Aero AB. The group says it has been active in the Polish market since 2008, and it specialises in the manufacturing of plastic packaging products. In the agricultural sector, the film made by Aero AB can be used to wrap corn silage, sugar beet pulp, food waste, grass and industrial waste.

In addition to the domestic market, the company exports its output to a number of countries, which include Germany, Ireland, Greece, Turkey, Pakistan, Egypt, Australia, New Zealand, Brazil, Venezuela and Panama, according to data from Aero AB.

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RTP Company acquires production facilities from Alloy Polymers

RTP Company, a global compounder of custom engineered thermoplastics, has announced the acquisition of three production facilities from Alloy Polymers, a provider of specialty, value-added thermoplastic compounding services.

The three plants, located in Richmond, Virginia, Crockett, Texas and Orange, Texas, will be merged with the previous RTP Company acquisition of Alloy Polymers' Gahanna, Ohio plant. Cary Street Partners LLC represented Alloy Polymers in both transactions. The group will be run as Alloy Polymers, a wholly owned subsidiary of RTP Company, and will be headquartered in Richmond, Virginia.

Long time RTP Company executive Peter Ploumidis has been tapped to lead Alloy Polymers as President of the organization.

With a compounding capacity in excess of half a billion pounds annually, the Alloy Polymers' facilities will strengthen RTP Company's position in the high-volume contract manufacturing sector.

Although terms of the agreement were not disclosed, Alloy Polymers employees were informed of the purchase and business will continue as usual. Ploumidis, who has previously run subsidiaries for RTP Company, views the acquisition as an important step for both companies.

Courtesy

Suez Environnement opens lab for plastics recycling

INTERNATIONAL RECYCLING NEWS, PLASTICS

Company says its goal is to double its production of recycled plastic in five years.

Waste management firm Suez Environnement, based in Paris, is building a lab through its SITA subsidiary that will focus on devising ways to increase the recycling of plastics. The company says the goal of the lab, called Plast'lab, is to help the company double the production of recycled plastics over the next five years.

The company says it has already developed a process whereby it is capable of sorting and preparing more than 400,000 metric tons of plastic scrap each year, 135,000 metric tons of which are recycled at its nine plastics recycling plants. To grow this sector, Suez is working on developing partnerships with industries that are major consumers of plastic to jointly develop more effective solutions for processing and delivering more high-quality recycled plastic.

At Plast'lab, Suez says it will be possible to analyze, test and classify different types of plastics while formulating

new ranges of plastics from recycled plastics that meet manufacturers' demands. Suez says the lab will focus on the manufacturers' demand to obtain and secure the necessary plastic materials while optimizing their formulation.

Suez says the production of plastics in Europe has multiplied 150-fold over the past 50 years and continues to increase. At the same time, the company says only about 25 percent of the 25 million metric tons of plastic scrap produced is recycled. However, current changes to regulations at both national and local levels are setting ambitious new recycling targets, notably a household packaging recycling rate of 80 percent.

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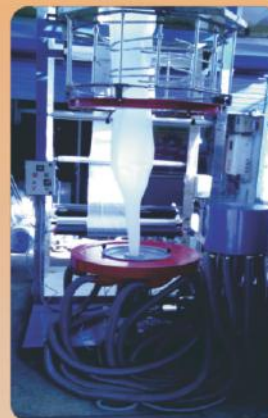
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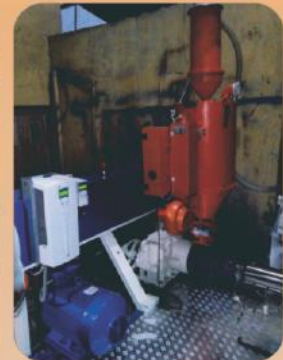
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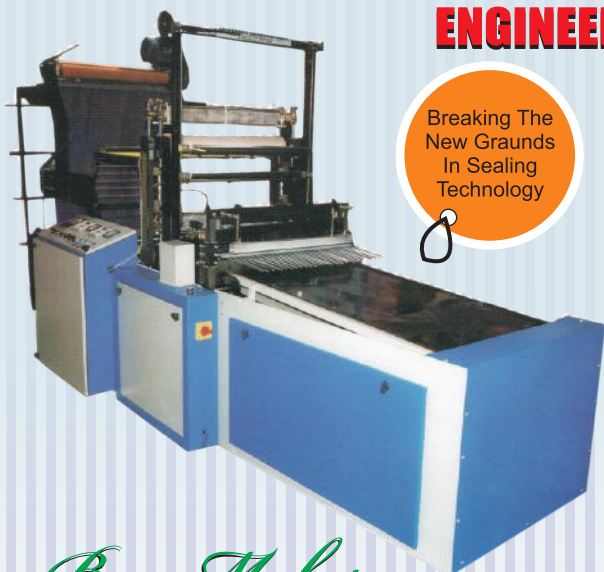
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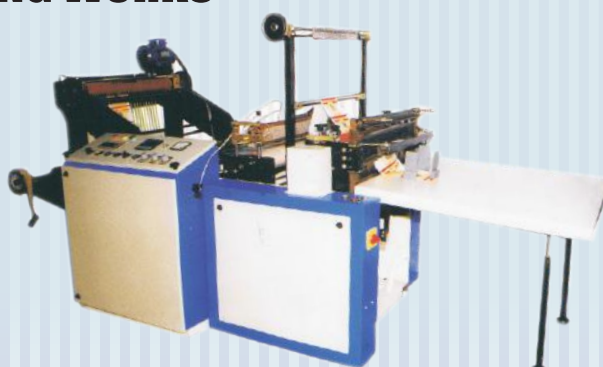
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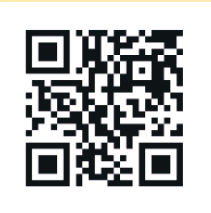
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Plastic Tomorrow 2015

ONE & ONLY FIRST - BI - LANGUAGE ENGLISH & GUJARATI PLASTIC INDUSTRIES PERIODICAL.

Published by : Dj's Publication, Vadodara, Gujarat, India. (M) +91 9327344559 / +91 8264233414 , Email : plasticudyog@gmail.com



JANUARY-2015

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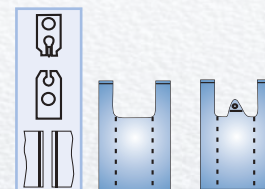
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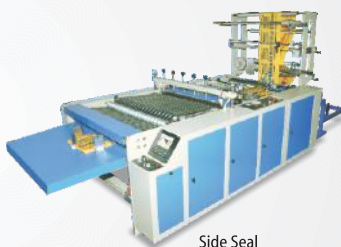
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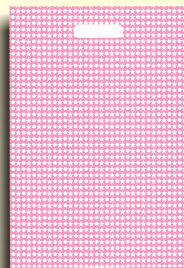
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QUICKSTEP HOLDINGS APPOINTS A NEW CHIEF EXECUTIVE OFFICER



The Board of Quickstep Holdings Limited, a manufacturer of high-grade carbon-fibre components for the aerospace and automotive industries, announces the appointment of Mr David Marino as Managing Director and Chief Executive Officer.

Business, Aeronautics & Aerospace, Automotive, Construction & Infrastructure, Marine, Mass Transportation, Pipes & Tanks, Sports & Leisure, Wind Energy, Other sectors, Thermosetting Resins

Mr Marino will commence his official duties in the role from mid February 2015, and will be appointed as a director at the first Board meeting after his commencement.

Mr Marino is currently Chief Operating Officer of Futuris Automotive Group, having been appointed to that role in June 2013 following ten years in senior management and executive roles throughout the Group. Futuris Automotive designs and manufactures automotive interior solutions for major original equipment manufacturers globally including Ford, General Motors and Tesla. David began his career as an engineer, first with Ford Motor Company, then moving to Lear Corporation, and finally to Air International, where he began moving into management roles, gradually being promoted to General Manager of the Seating Division before Air International Thermal was divested and Futuris Interiors commenced its global expansion.

As Chief Operating Officer of Futuris, Mr Marino leads a team of 1,600 people, with direct reports including heads of various international business units and senior operational executives, and is responsible for businesses turning over more than \$400 million annually across Australia, Thailand and the US. He has over 20 years of commercial experience in the Automotive industry, having spent many years developing effective customer and partner relationships, leading customer negotiations, and executing and managing manufacturing projects to achieve growth and profitability targets. He has experience as a director on the boards of numerous Futuris subsidiary companies, and as a current member of the Futuris Executive team works closely with the CEO and CFO to develop and deliver business strategy for the Futuris Group.

Mr. Tony Quick, currently Executive Chairman of Quickstep, said "Quickstep has experienced significant growth in its operations over the past year, tripling sales in FY2014 from FY2013. In FY2015 Quickstep expects further significant growth, and is also seeking to establish a position in the automotive market. David's experience in leading and managing high-growth businesses, and in particular his extensive experience in developing manufacturing businesses both locally and overseas in the Automotive industry, are an ideal fit for Quickstep as we focus on delivering the expected growth over the next few years. Futuris Automotive is known in the industry for having developed a culture that values quality, teamwork, and building business partnerships, and we look forward to David reinforcing similar values across the Quickstep businesses."

Mr Philippe Odouard will continue in his current role as Executive director, focussed on developing the market for the Quickstep process with particular emphasis on Defence and Aerospace markets. Mr Odouard will report to Mr Marino.

It is envisaged that there will be a brief handover period between Mr Quick and Mr Marino, after which Mr Quick will relinquish all executive responsibilities and resume his role as Non-Executive Chairman of Quickstep.

Mr Marino said "I am delighted to take over the leadership of Quickstep at this exciting point in its growth."

More information: www.quickstep.com.au

Courtesy



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Making it in bioplastics: Solegear's Toby Reid talks about the industry's challenges and chances

Over the past years, as the plastics industry has increasingly been confronted with issues ranging from high raw material costs and limited fossil fuel resources to tightened environmental and end-of-life legislation, interest in bioplastics has grown considerably. One consequence of this has been a considerable rise in the number of players entering this market.

However, it's a demanding sector, and one that takes persistence and passion to survive in. It is today also still very much a niche market - although one that offers multiple perspectives, with growth rates predicted to reach 400% over the next five years, according to European Bioplastics Association. Vancouver-based bioplastics manufacturer Solegear, established in 2005, is one of the companies that is working to make that happen. PlasticsToday talked to Solegear founder and CEO Toby Reid about the drive to make plastics sustainable.

What or who inspired you to get into bioplastics?

Reid: "During a five-year stint at Mountain Equipment Co-op, Canada's largest outdoor retailer (\$300 million+ revenues per year), I learned all about the global supply chain for plastics. Though I was involved in launching MEC's e-commerce channel, I was drawn to seek solutions for the problems we all face with many types of plastics: pollution, energy intensity and chemical safety. At this time, I had been observing an increasing amount of plastics washing up on the shores of the west coast of North and Central America and believed that there would be a need for next generation of solutions that would help to optimize the mix of getting the right plastics in the right applications.



"What do you think sets your company apart from that of others in your field? And your product?"

"There are many great bioplastics companies out there, so we're humbled to be in the company of such a great global group of firms. Solegear is known to be a specialist in engineering bioplastics to work in more demanding applications for rigid packaging and durable products. Solegear uses Green Chemistry to achieve greater performance characteristics for our proprietary materials,

allowing us to create lightweight packaging structures and meet demanding durable product specifications. So, performance is a distinguishing feature for Solegear, while Green Chemistry allows us to produce a more eco efficient set of materials."

What are you most trying to accomplish in your work?

"Solegear's mission is to make our communities healthier,

safer and stronger by changing the way that we make and dispose of products made of plastic. As our Chief Technologist says, "there's no such thing as bad plastics, only bad applications of plastics." Given that bioplastics have now evolved to the point where the quality and reliability now meet, and in some cases, surpass the performance of incumbent plastics, our opportunity is to work with the right partners to prove these elements in the marketplace. Both the business need and the consumer demand are there for bioplastics, so we remain committed to a conversation that seeks to optimize the applications for all plastics. Our next area of focus is driving progressive regulations and building political will, that matches the public's desires, to secure a brighter future for the industry."

What have been the (greatest) challenges that you have encountered?

"There are a lot of misconceptions about bioplastics and their quality and durability. Fortunately, Solegear's partners are helping us to dispel those myths. A second challenge we face is moving the dial on regulation and motivating change at the policy level. The tendency by regulators to resist innovation in the plastics industry comes from the legacy of traditional, petroleum-based products, a very powerful and influential group. We are committed to proving through science and research, and through customer validation that bioplastics can compete with and in many cases, out perform incumbent plastics."

The bioplastics field is notoriously difficult to be successful in - how has Solegear managed?

"We believe that our success to date has been two-fold. Firstly, we have had the benefit of hiring the right people with the right skills to ensure we stay on the leading edge of the science and innovation of bioplastics. Secondly, we have also sought out the right business partners in the industry, those who have the same vision for transforming the market, while also wanting to provide high quality products to their customers. It's like the old proverb "if you want to go fast, go alone, if you want to go far, go together". This approach and alignment has served us well as we have evolved."

Has serendipity played a role in developments at Solegear?

"Solegear's success to date has been determined by a mix of optimism, collaboration and a commitment to innovation, matched with solid science and proven formulations. We have gotten to where we are with a lot of persistence, hard work and learning from the process along the way. I'm very excited about Solegear's next chapter, for both our company and our materials, at local and global levels as we continue to move forward and grow."

Courtesy

VARIOUS ASSISTANCE TO MICRO, SMALL AND MEDIUM ENTERPRISES (MSME)

1. ASSISTANCE OF CAPITAL INVESTMENT SUBSIDY

@ 10 % OF Loan amount with the maximum amount of Rs. 15 Lakhs in municipal Corporation areas and @ 15 % loan amount with the maximum amount of Rs.25 Lakhs in other areas.

2. ASSISTANCE FOR INTEREST SUBSIDY

- ◆ @ 5 % With the ceiling of Rs. 25 lakhs per annum in municipal corporation area & @ 7% with ceiling of Rs.30 Lakhs per annum in the other areas for period of 5 year
- ◆ @1% additional to SC / ST, Women & Physically challenged entrepreneur
- ◆ @1% additional to young entrepreneur below age of 35 years.
- ◆ MSME OF Service sector @5 % with ceiling of Rs.25 Lakhs per annum for 5 year on the term loan

Of machinery and equipment in the state.

3. ASSISTANCE FOR VENTURE CAPITAL

Enterprise with innovative technology assistance @ 20% of project cost maximum upto Rs.50/-Lakhs as promoter's contribution through GVFL

4. ASSISTANCE FOR QUALITY CERTIFICATION

- ◆ 50 % OF ERP with ceiling of Rs. 50,000.00
- ◆ 50 % of consultancy fee for ISO with ceiling of Rs.50,000.00
- ◆ 50 % fee for ISI/WHO-GMP/Hallmark Certification with ceiling of Rs.5 Lakhs.
- ◆ 50 % of the Payable to recognized international certification Authority
- ◆ 50 % cost of testing equipment and machinery with ceiling of Rs.10 Lakhs

5. ASSISTANCE FOR TECHNOLOGY ACQUISITION

50 % of the cost payable for acquisition of technology with ceiling of Rs.50 Lakhs.

6. ASSISTANCE FOR PATENT REGISTRATION

75 % Cost for obtaining patent registration with

7. ASSISTANCE FOR SAVING IN CONSUMPTION OF ENERGY AND WATER

75 % Cost of Energy /Water audit with ceiling of Rs.50,000/- for each 25 % cost of equipment with ceiling of Rs.20/- lakhs

8. ASSISTANCE FOR RAISING CAPITAL THROUGH SME EXCHANGE

20 % Expenditure with ceiling of Rs.5 lakhs for raising of fund through SME exchange as per guidelines of SEBI

9. ASSISTANCE FOR CGT MSE FEES

Assistance to women, SC/ST, & Physically challenged entrepreneur for service fees for availing of Collateral free term loan upto Rs.1 Cr.

10. REHABILITATION OF SICK ENTERPRISES

@ 50 cost of preparation of diagnostic report through expert with ceiling of Rs.1 lakhs to sick Enterprise.

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IN RUNNING CONDITION**

Extruder :- 32,35,40,45,55,65 mm
Aga, Ashok, Dutt, Fivestar and Other

Bottom Cutting Sealing Machine :-
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Side Sealing :- 12" to 32" Plain & Servo,
XL, Shreeji, Kejrival & Other

Flexo / Gravier :- 1 to 8 Colour.

Reprocess , Filler, Masterbatch
65" to 120 " mm For HM/LD/PP

Others :- Aglo, Grinder, Mixer, Washing-
Dryer Automatic Bag Punching

Parts :-
Screw, Barrel, Die 2/3 Layer. Air Ring,
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Mfg & Trading : Carry Bag, Kirana, 2nd
Raw Material / Filler / Master Batch

09687614820

ASSISTANCE TO PLASTIC INDUSTRIES.

Gujarat's economy is today at such a healthy stage, that from here, it can move on an accelerated high-growth trajectory. The state of Gujarat has always been at the forefront of economic growth in the country. The industrial policy aims to encourage the manufacturing sector to upgrade itself to using cutting and innovative means to significantly add value, creating products that position in the global markets. Building backward and forward linkages in the focus sector will help in creating a strong multiplier effect in the economy, which would boost consumption and growth. Plastic industry is identified as a specific sector focus to promote manufacturing industries. Investments in this sector will create vast opportunities for ancillary and downstream industries. In the small, medium & large sector in the state. For the state government, plastic industry will be a local point for overall development of Gujarat state.

ELIGIBILITY

New enterprise which purchases raw material within the state will only be eligible. Extending incentives for expansion is under consideration.

ASSISTANCE TO PLASTIC INDUSTRY

Interest Subsidy.

@ 7 % the maximum amount of Rs.1 crore per annum for period of 5 years

VAT Incentives:

The enterprise will be eligible for the reimbursement @ 70 % of net VAT paid for 7 Years from the date of commercial production.

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Uses in Plastic Industry

Extruded Granules Classifier – ETA Vibro Screen is used for Removing Chips, Dusting or Undercut and Lumps or Long Strands in Extrusion Process for producing Plastic Granules like Colour & Additive Master Batches & Filler Compound.

Reprocessed Plastic/Granules Dust Remover – ETA Vibro Screen is used for Removing Chips / Dusting or Undercut generated in Process of cutting/ grinding of rejected/ recycled plastic articles or reused plastic granules / floor sweepings.

PVC / Plastic Powder Screener – ETA Vibro Screen is used for Removing large Chip, lumps or foreign material coming with polymer/ PVC powder before extrusion/ processing.

ETA Vibro Screen is one of the most Versatile, Reliable and Economical Process equipment. It can be used for ...

User Industries ...

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| > Food | > Minerals | > Filler Compounds |
| > Oil | > Agro Processing | > Extruded Granules |
| > Chemicals | > Salt, Spices & Dehydrate Foods | > Grinding Waste |
| > Paper | | > Floor Sweepings |
| | | > Injection Molding Waste |
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SWACHCH BHARAT THROUGH PLASTICS WASTE MANAGEMENT



Anup Patel M.D.
Dollplast Machinery Inc.

Plastics Age Will Never End “ Burning Problem of Plastic Waste ” & It's Solution

Plastics has now become an integral part of human life and one cannot out rule out the advantages of plastics but the disadvantages can also be reduced to some extent if certain tips to deal with plastic waste are followed by Industry, Common Man, Municipal and other Authorities concerned with the environment. Plastics has many negative effects on the environment. These include littering of the landscape, that is, once used, plastics becomes litter and finds its way into Waterways, Parks, Beaches, and Streets. Indeed, Plastic Bags have become popular as they fly and get captured on fences, trees and other vegetation. If burned, they infuse the air with toxic fumes which contain chemicals, including dioxins, which have been linked with cancer as well as the increase of green house gases (GHG). The vast majority destined to end up in the environment are clogging of sewers, drains and polluting soil,

Plastics are a threat to aquatic life and livestock. Many animals ingest plastic bags, mistaking them for food, and therefore die. Ingested plastic bags remain intact even after the death and decomposition of the animal. Thus, it lies around in the landscape where another victim may ingest it and die.

The present consumption of Plastics in our country is around 12.0 MMT and the per capita consumption is around 10 kgs. The Plastics consumption is likely to increase to 20.0 MMT by 2020 and the per capita consumption is going to be triple in the next decade. India is surging upwardly and it will become the fifth largest consumer by 2025. Therefore, the consumption of Plastics in huge quantity in the coming decade is also likely to generate huge quantity of Plastics Waste. At present India generates around 6 MMT of Plastics Waste annually. About 60 percent of the total waste is recycled and the rest is scattered on the roads, open areas, gutter lines, rivers, parks, beaches etc.

Various Policy measures are being taken to check the nuisance caused by Plastic Waste in India, though there is no definite policy and legislation framed in respect of mitigating the Plastic Waste in the country. Our Hon'ble Prime Minister Shri. Narendrabhai Modi has invited renowned Persons from the Society to join hands for Swachchata Abhiyan in making Swachch Bharat with respect to Plastic Waste.

We all can make Bharat Swachch provided we all follow some basic norms. The present trend followed is to collect plastics waste generated by Common Man or Industry to Trading and then reprocess by traditional methods into useful products, thereby supplementing the supply of raw materials at economic price. There is a need for an act by the concerned authorities to envisage prohibition of throwing or depositing plastic articles in public places and to facilitate the collection through garbage placed at convenient places.

The time has come when every citizen is supposed to throw/dump Plastics Waste at such a place notified by the Society, Organisation or Authority so that it can be collected by an agency identified by the society or Regulatory Body. The Waste collected from one source should then be sent for recycling. Shree Anup Patel Managing Director of M/s. Dollplast Machinery Inc. Ahmedabad, Gujarat, INDIA has developed New Technology For the First time in the Country to recycle Plastic Waste Containing all the Polymers into Lumbers which can be fabricated into valuable Products like Doors, Windows, Furniture, Pallets, Tree Guards, fencing etc. from the Zero Value Plastics Waste. For this New Technology Development M/s. DOLLPLAST has received following Awards from Govt. of India & Other Leading Private Organisation.

SWACHCH BHARAT THROUGH PLASTICS WASTE MANAGEMENT

- (1) Plasticon Award 2005" for Innovation in Recycling Technology
- (2) National Award 2011 (Govt.of India) (with Rs.2.00 Lac)
(Innovation in Plastic waste management Machinery)
- (3) National Award 2011 (Govt.of India) (with Rs.2.00 Lac)
(Plastic waste Process & Technology Innovation)
- (4) Plasticon Award 2012 (Gold Trophy) (Excellent Innovation in Recycling Technology)
- (5) Sujana Excellence Award 2012 (with Rs.1.00 Lac)(Innovation in Engineering)
- (6) Top SME - 100 Fore Small & Medium Enterprise (2013)

All Municipal Corporations, Grampanchayat, Environment Authorities etc should come forward to see that all the Plastics Waste is collected at one source and transported to Recyclers who will be in position to recycle it and use the waste for better purpose. There is a need to think in this direction by all the Authorities to make our Bharat Swachch as desired by our Hon'ble Prime Minister of India. We have accept that today we cannot live without Plastics. Sheer banning the use of Plastics may not help or just condemning Plastics is not the solution. All citizens must come forward to see that all Plastics Waste is collected at one source that is in Society, Residential area, Hospitals, Railway/Bus Stations, Airports, Offices, Parks etc. and make sure that this is sent to recyclers for recycling which will defiantly make our Cities/Towns and Areas are neat, Clean and Green. So Join in this Abhiyan to Make our Bharat Swachch.





Oxobiodegradability

The term 'Oxobiodegradability' is a hybridisation of two words, oxidation and biodegradability. It defines clearly a two step process initiated in this case by the Reverte® additive to degrade the polymer chain (break up) and make it available for biodegradability within the environment when a treated item has finished its useful life.

The phase of oxidation reduces the molecular weight and introduces oxygen into the structure. This process transforms the polymer from long strands to much smaller lengths. By reducing the chain length of the polymer the material loses its physical strength and elongation properties making it brittle and none 'plastic'. The biodegradability aspect refers to the conversion of these lower molecular weight species by bacteria into biomass, CO₂ and H₂O in an aerobic environment, or in the case of an anaerobic environment, CH₄.

Reverte® is introduced to a plastic article such as a check out bag at the manufacturing stage, the complex formulation is dosed in at a very low level, and the carefully developed complex additive package within Reverte® is now within the plastic at a predetermined amount.

Study of a Reverte® Checkout Bag

The film is 'blown' as normal with no operational change to the process equipment or settings, this means that Reverte® can modify polymer recipes making them oxo-biodegradable with only a small impact on cost and with minimum effort.

Once manufactured the check out bag now begins its useful life going from the production process through to warehousing, stock holding despatch and finally into the supermarket. It is used by the customer and discarded into the waste stream in some form or another.

After the check out bag is discarded the Reverte® additive is activated by natural sunlight, this accelerates catalytic reaction to break the carbon-carbon (aliphatic) bonds at a molecular level and introduce oxygen into the polymer chain. This simple but effective reaction does two things, first it reduces the molecular weight of the polymer by

'chemically cutting' the chain, secondly it makes the molecular fragment more 'hydrophilic'.

The first physical observation is that as the chain scission occurs and the molecular weight of the polymer is reduced the plastic begins to lose its properties, its strength is lost and its elongation properties reduce, in effect the material becomes brittle. As the chain scission reaction continues the bag simply falls apart having no integral strength.

Study of a Reverte® Checkout Bag continued...

It is a common misconception that this resultant powder is just smaller pieces of plastic, this is not the case. The molecular weight has dropped and oxygen has been introduced into these species, producing a complex mixture of carboxylic acids, ketones and alcohols. These lower molecular weight entities are not polymeric (they do not have sufficient repeating units to be classed as a polymer) and the material does not have any of the plastic properties which we associate with the polymer. It has therefore irreversibly changed beyond recognition.

The remnants are also hydrophilic which means they can be wetted out, unlike a normal polyolefin which is extremely hydrophobic. This is a critical parameter as it means that the carbon that was originally bound up in the polymer chain is now accessible and can be utilised by microbes, unlike when it was a polymeric chain and highly hydrophobic.

In essence the polymer has been altered into a group of materials which are both available for biodigestion and are biodegradable. These materials if in a suitable environment which is rich in bacteria can now be safely biodegraded into the environment.

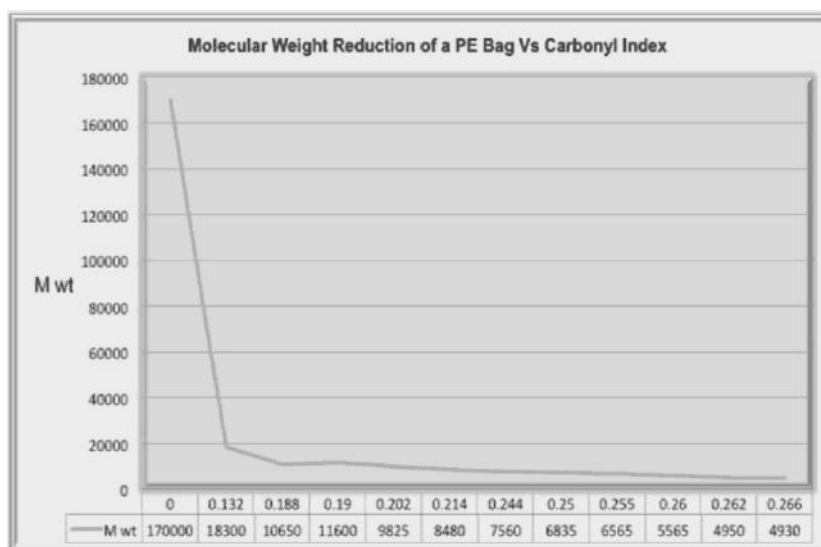
The biodegradation step rate is dependent on the environmental conditions in which it is exposed, this in fact is true for all biodegradable materials whether it be grass cuttings, straw or an oxo-biodegradable check out bag!

This final step of converting the available carbon from the polymer into CO₂ is called mineralisation, the rate at which CO₂ is generated can be measured and provided with a 'rate' for this stage of biodigestion.



Technology

The Reverte® oxo-biodegradable additive family are well suited to a wide range of processes and applications, have extensive food contact status and have been used for many years to provide a reliable and reproducible oxo-biodegradable profile around the world. The key attribute of the Reverte® technology is the degradation profile and how it compares with a more conventional 'oxo-biodegradable material'. Wells Plastics laboratories measure the first stage of degradation (oxidation) using carbonyl indexing and embrittlement point determination, processes which have been developed and exploited at Wells for many years and are now adopted by the industry. The growth of the carbonyl index relates to the level of oxygen which has been incorporated into the polymer and wherever a carbonyl group is introduced the polymer undergoes a chain scission, i.e. a molecular weight reduction and a change in its physical and chemical properties.



Graph showing direct relationship between carbonyl index and molecular weight aged in accordance with ASTM 6954-04

The more carbonyls introduced the further removed it becomes from its polymeric nature. Once a critical point has been achieved in carbonyl index the polymer loses its flexibility and breaks apart under the minutest of stresses. At this time it is considered to be at its 'embrittlement point'.

What makes Reverte® stand out is the profile of degradation, the curve plotted of carbonyl index versus time starts off very flat with a period of no change in the carbonyl index over time. This period is known as the 'dwell time' another phrase coined by Wells Plastics.

After the dwell time has been passed the degradation then proceeds rapidly until the embrittlement point is reached and beyond that the plastic falls apart.

The molecular weight is lowered and the material available for biodigestion.

Biodegradability of a Reverte® treated film occurs once the molecular weight is below 5000.

At this level the polymer no longer exists and is a wide range of discrete oxidised species. Bacteria and fungi find these species suitable for a source of carbon and can be assimilated into the lifecycle resulting in the formation of biomass and CO₂ under aerobic conditions.

Biodegradation can only occur (whether this is for Reverte® plastics or for grass cuttings) in environments which have warmth, bacterial activity and moisture. This fact is often overlooked when marketing oxo-biodegradable or hydrobiodegradable

For More Detail

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માનવી સામાજીક પ્રાણી છે અને સમાજનું એક અંગ છે. સમાજમાં સહારા વિના એનું જીવન અસંભવિત છે. જ્યારે માનવી જાણે કે અજાણે સમાજનો સભ્ય બને ત્યારે સમાજ પ્રત્યે એની જવાબદારી અને ફરજનિષ્ઠાની ભાવના પ્રતિપાદિત થાય છે. જેમ માનવીને સમાજનો સહારો છે તેમ સમાજ પણ એકલ-દોકલ વ્યક્તિથી સંભવિત નથી. આ રીતે માનવી અને સમાજ એકબીજા પૂરક અંગ હોય, બંનેની એક બીજા પ્રત્યે સાચી ભાવના, નિષ્ઠા અને પ્રમાણિક વ્યવહાર આશ્યક છે. આ સંજોગોમાં સમાજના સભ્ય માનવીની સમાજ પ્રત્યે ફરજ વધી જાય છે અને સમાજના ઉત્કર્ષ કે ઉન્નતિ માટે એણે તન, મન, ધનથી સાથ અપવો જરૂરી છે. તનનો સહકાર એટલે જે સમાજમાં એ રહે છે એની ઉન્નતિ માટે યોગ્ય સમય જાણવી સમાજોપયોગી કામો કરવા. મનનો સહકાર એટલે હંમેશા સમાજની પ્રગતિ માટેનું ધ્યેય કે વિચારો રાખવા અને એમાં પોતાના જેવા વિચાર વાળા બીજા સભ્યોને પણ ભાગ લેતા કરવા. ધનનો સહકાર એટલે કોઈ પણ સમાજ કે સંસ્થાના સંચાલન માટે જરૂરી આર્થિક સહાય. જે ટીપે ટીપે કરતાં મોટું સરોવર ભરાય અને એક વ્યક્તિ પર વધું બોજ ન આવે તથા સમાજ આર્થિક રીતે જેટલો સફર હોય અટલો એ સમાજના સભ્યો માટે સહાયક પ્રવૃત્તિનું વિચારી શકે.

આ રીતે સમાજના દરેક સભ્યની ફરજ છે કે સમાજની ઉન્નતિ-પ્રગતિ માટે યથાયોગ્ય પ્રમાણિક રીતે સાથ સહકાર કે જ્ઞાનો આપે. સમાજનું ઉત્થાન તેના કર્મકર્મ-નિષ્ઠ કાર્ય પર જ અવલંબે છે. અને જેમ કોઈ કારખાનું કે સંસ્થામાં કામ કરનાર માણસની પ્રગતિ કારખાનાવી તે સંસ્થાની પ્રગતિ પર અવલંબે છે. (જો કર્મચારી કામ ન કરે તો કર્મ બંધ થઈ જાય અને એની રોજી-રોટી ઝૂંટવાઈ જાય) એમ સમાજમાં કાર્યકર્તાઓ કંઈ જ ન કરે તો સંસ્થા ચાલે નહિ અને કોઈ સમાજોપયોગી કામ થાય નહિ. અહીં સમાજની પ્રગતિ સાથે કદાચ વ્યક્તિગત પોતાની અનુભવી ન શકે, પણ ભવિષ્યનો વિચાર કરે તો એને સમાજ પર જ અવલંબન રાખવું પડશે.

સમાજ કેવી રીતે સભ્યોને સહાયક થઈ શકે ?

આજની તાતી જરૂરિયાત ભણતર છે. જો સમાજ આર્થિક રીતે સફર હોય તો સમાજના હોશિયાર અને જરૂરિયાતવાળા વિદ્યાર્થીઓને જરૂરી વિદ્યાસહાય કે આર્થિક સહાય કરી શકે. બીજી જરૂરિયાત જીવનસાથીની છે. એમાં પણ સમાજ ઘણી રીતે યોગ્ય મદદ કરી શકે. આ સિવાય માંદગી કે દવાખાના જેવી જરૂરિયાત માટે પણ સમાજ મદદરૂપ થઈ શકે. વિધવા કે નિઃસહાય વ્યક્તિ પણ સહાય કરી શકે. પણ એ ક્યારે સંભવી શકે ?

જ્યારે સમાજનો દરેક સભ્ય વ્યક્તિ પોતાની શક્તિ પ્રમાણે આગળ જણાવ્યું તેમ તન, મન અને ધનથી સહકાર આપે તો જ.

આમ ઘણાં દાતાઓએ પોતાની રીતે સહકાર આપ્યો છે. સમાજના કાર્યકર્તાઓએ એમના સંપર્કમાં રહી પોતાના સમયનો ભોગ આપી એમના તરફથી સહકાર મેળવ્યો એ માટે સમાજ તેઓ પ્રત્યે આભાર તાથા ગૌરવની લાગણી અનુભવે છે. અને આશા રાખે છે તે જે સભ્યો તથા જ્ઞાતિજનો આ કાર્યક્રમ કે આવા બીજા કાર્યક્રમ પ્રત્યે નિરુત્સાહી જણાય છે એમને પણ બધા સાથે મળી પૂરો સાથ સહકાર આપવા સૂચન છે.

સમાજના યુવાધનને આ પ્રસંગે ખાસ અરજ છે કે સંસ્થાના તેઓ ભવિષ્યના કાર્યકર્તાઓ છે. અને સમાજ માટે સક્રિય રીતે સાથ-સહકાર આપે. જેમાં સમાજના સભ્યો માટે ઉપયોગી સેવા-કાર્યો કરવા, સાંસ્કૃતિ તૈયાર કરવા, કરવવા અને એને લોકભોગ્ય બનાવવા.

વિસ્મૃત આત્મશક્તિથી વાકેરૂ થવું ; ફરી મેળવવી એ છે આત્માદાર

“જીવનમાં તણાવ-મુક્ત કઈ રીતે રહેવું?”

સમાજના યુવાધનને આ પ્રસંગે ખાસ અરજ છે કે સંસ્થાના તેઓ ભવિષ્યના કાર્યકર્તાઓ છે. અને સમાજ માટે સક્રિય રીતે સાથ-સહકાર આપે. જેમાં સમાજના સભ્યો માટે ઉપયોગી સેવા-કાર્યો કરવા, સાંસ્કૃતિ તૈયાર કરવા, કરવવા અને એને લોકભોગ્ય બનાવવા.

આજકાલની જીંદગી ભાગદોડથી ભરપૂર અને ચિંતામય થઈ ગઈ છે. શિક્ષણ, નોકરી-દંધો, ફાસ્ટ લાઈફ-સ્ટાઈલ, ટુંક સમયમાં જોઈતી સમૃદ્ધિ અને યશ, આ બધા તણાવના મુખ્ય કારણો છે. તદ્ઉપરાંત બીજાં અનેક કારણોસર આપણી જીવનશૈલીમાં તથા સમાજ વ્યવસ્થામાં છેલ્લા થોડા વર્ષોથી અચાનક એકસાથે ઘણાં ફેરફાર આવ્યા છે. જેથી આપણાં જીવનમાં તણાવ વધી ગયા છે. ટુંકમાં, સરળતાથી વહેતી જીવનશૈલીમાં અચાનક રૂકાવટ અથવા ફેરફાર કરનાર સંજોગો આવી જાય ત્યારે તણાવ ઉભા થાય છે. જેને આપણે ચિંતા, ટેન્શન અથવા માનેસિક દબાણ જેવા શબ્દો તરીકે જાણીએ છીએ.

તણાવ એટલે શું ?

આપણા શરીરમાં તથા બહારના વાતાવરણમાં ઘણાવાર થતા રહે છે. જેને આપણે અનુકૂળ એટલે કે એડજસ્ટ થવું પડે છે. આ આંતરિક અને બાહ્ય ફેરફારો સામે એડજસ્ટ થવા માટે આપણા શરીર અને મનને જે કાર્ય કરવું પડે છે તેને આપણે ‘તણાવ’ તરીકે ઓળખીએ છીએ.

શું જીવનમાં ‘તણાવ’ નું હોવું જરૂરી છે ?

હા, જીવનમાં તણાવ જરૂરી છે. જ્યારે જ્યારે આપણે આવા મનોદબાણો પર કાબૂ મેળવીએ છીએ ત્યારે આપણને કશુંક સાડું કર્યાનો આત્મ-સંતોષ મળે છે. એની સાથે આપણા અનુભવમાં વૃદ્ધિ થાય છે અને સેલ્ફ ડેવલપમેન્ટ થાય છે.

શીરીરીક : જેવી કે, ખૂબ જ ગરમી, ઠંડી, વધુ અવાજ અથવા બીમારી

કૌટુંબિક : કામની વહેંચણી, સંસ્કાર અને ઉછેરનો ફરક, જીવન જીવવાની પદ્ધતિ તેમજ કૌટુંબિક જવાબદારીઓ વગેરે.

આજીવિકાને લગતી : આજના જીવનમાં આ સૌથી મોટો તેમજ સૌથી વધારે ફેલાયેલ તણાવ છે. આર્થિક સંકડામણ, બે છેડા કેવી રીતે ભેગા કરવા ? જીવન કેમ ચલાવવું ? બાળકોની ફી, કપડાં, બીમારી તથા આકસ્મિક ખર્ચા. જેવી પાસે જીવન જરૂરિયાતની વસ્તુઓ છે તો એને એના કરતાં વધારે ઉપર કેવી રીતે જવું, વધારેને વધારે પૈસા કેવી રીતે મેળવવા એની ચિંતા.

સામાજીક - રાજકીય : નોકરી-ધંધાનો અભાર, કુદરતી આફત, આપણી સાથેના માણસો બરાબર કામ ન કરે, ઓછી ચોગ્યતા વાળા માણસો લાગવત તેમજ અપ્રામાણિકતાના જોરે આગળ વધી જાય તો પણ ટેન્શન થાય.

આપણા પોતાના નકારાત્મક વિચારો : જેવા કે લાલચ રાખી, કમાય છતાં સંતોષ ન થાય, બીજાઓ જોડે સરખામણી કરવી, ઉદારતાનો અભાવ, દરેક વસ્તુમાં નકારાત્મક વિચારો કરવા અથવા નકારાત્મક એપ્રોચ રાખીએ, સ્વાર્થ વૃત્તિ તેમજ કામ,કોઈ વગેરે દરેક વસ્તુ પોત-પોતાની રીતે નુકશાનકારક છે.

માણસ ટેન્શનમાં છે અથવા તણાવમાં છે, એ ક્યારે ખબર પડે ?

માણસનું શરીર અને વ્યવહાર આ બાબતે સંકેત આપે છે. દા.ત. માથાનો દુઃખાવો, આંખનું બળવું, ઝળવું, ઝડપી શ્વાસ ચાલવો, મોં સુકાઈ જવું, હાથ-પગ ઠંડા પડી જવા, ઝીણી ઘુજારી આવવી, હૃદના ધબકારા વધી જવા, શરીરનું ખેંચાણ, દુઃખાવો વગેરે.

વર્તનમાં ફેરફાર જેવાકે, ખોરાકમાં અચાનક વધઘટ, સિગરેટ અથવા દારૂનું સેવન વધી જવું, ઊંઘ ન આવતી.

માનસિક તેમજ લાગણીગત ફેરફાર જેવા કે, કામમાં ધ્યાન ન ચોંટવું, ભૂલો થવી, ભૂલી જવું, ઉશ્કેરાઈ જવું, ગભરાઈ જવું, વધુ પડતાં વિચારો આવવા, ઉદાસ થવું, થાકની લાગણી વગેરે. માનસિક ચિંતા-તણાવમાંથી મુક્ત કેવી રીતે થશો ?

આ જીવન-સંસાર ચિંતા એટલે કે તણાવથી ભરપૂર છે. ચિંતાને હંમેશા આપણા તાબામાં રાખવી, ન કે ચિંતા આપણી માલિક બની જાય. જીવનની ઘણી બધી પરિસ્થિતિઓ પર આપણે કાબુ કરી શકીએ છીએ, એ માટે આપણી ચિંતાઓ કઈ-કઈ છે એ જાણવી જરૂરી છે. આખા દિવસના ભાગદોડના પ્રોગ્રામમાં થોડો સમય ‘હળવાશ’ એટલે કે, ‘રિલેક્સેશન’ માટે ફાળવો. જીંદગી પ્રત્યે હકારાત્મક વલણ રાખો તો જીંદગી જીવવા જેવી લાગશે.

તણાવ પ્રત્યે તમારી જાગૃતતા કેળવો.

કોઈ પણ જવાબ માટે એનો સવાલ જાણવો જરૂરી છે તેમ ચિંતામુક્તિ માટે આપણને કઈ પરિસ્થિતિમાં કઈ વ્યક્તિથી ચિંતા તણાવ થાય છે અને એ ચિંતાનો આપણા તમ-મન પર પ્રતિભાવ શું છે તે જાણવું જરૂરી છે. જેમકે, બાળકને ભણાવ્યા બાદ માથાના દુઃખાવાની ફરિયાદ, ઓફિસમાં ટેન્શનમય કામ કર્યા બાદ આખા શરીરનું ખેંચાણ અથવા કળવું વગેરે.

ચિંતાના કારણે આપવા મન અને શરીર બંને પર થાય છે. તેથી જો શરીર અને મન સ્વસ્થ રાખી શકાય તો ચિંતા સામે આરામથી લડી શકાય. જીવન પ્રત્યે હકારાત્મક વલણ, કસરત, આરોગ્યમય ખોરાક અને નિયમિત આરામ ચિંતા સામે લડવામાં ખૂબ ઉપયોગી છે.

તો સૌપ્રથમ પ્રોબ્લેમને ઓળખો.

૧. જીવનમાં નાના-નાના પ્રસંગો અને અપમાનો, ટ્રાફિકમાં અટવાઈ જવાબ, ગીરદીમાં કોઈ આપણાં પગ કચડી નાખે, શાક દુકાઈ જાય, કામવાળી ન આવે, કોઈ સ્કુટરવાળો નાની ટક્કર મારી જાય વગેરે અસંખ્ય નાની બીનાઓને આપના મન પર ન લેવી આ ઘટનાઓથી દુનિયા રસાતળનથી થઈ જવાની. ઉલટાનું આ બધી નાની ઘટનાઓથી દૂર રહો. નુકસાન આપણને થાય છે. જેમકે, બ્લડ પ્રેશર વધવું, સામાજીક ક્લેહનું વધવું. તેથી આવી પરિસ્થિતિઓથી દૂર રહો.

૨. જીવનમાં આવતા મોટા ફેરફારોને અનુકૂળ થવાનો પોઝીટીવ વિચારો સાથે પ્રયત્ન કરો. તમારી જીવનશૈલીને સંજોગોને અનુરૂપ બદલો. દા.ત. ઘરમાં બાળકનો જન્મ, નોકરી છૂટી જવી, બદલી થવી, કોઈનું મૃત્યુ, છુટાછેડા આ બધી જીવનની મોટી ઘટનાઓ અને ફેરફારો છે.

પરિસ્થિતિ પર કાબુ મેળવવાના ઉપાય

૧. નાની-નાની ચિંતાઓ માટે થોડો પ્લાર્નિંગ કરો. દા.ત. ટ્રાફિકમાં અટવાવાની ચિંતાને દૂર કરવા ઘરેથી વહેલા નીકળો. ઓફિસમાં પહોંચવાની મુશ્કેલી માટે સવારે વહેલા ઉઠી અને ઘરેથી થોડા વહેલા નીકળો.

૨. જીંદગીના મોટા ફેરફાર જેવાકે, પ્રિય વ્યક્તિનું મૃત્યુ, આવે વખતે આખી જીવનશૈલી બદલવી પડે, બીજા ટેન્શનો તે વખતે ન લેવા જેવાકે, નોકરી બદલવી, નવો ધંધો કરવો. આને લીધે ટેન્શન બમણું થાય છે. એક વખતે એક જ ટેન્શન પતવા દો. એ વખતે તમને જે વસ્તુ આનંદ આપે કે તમારું ટેન્શન ઓછું કરે એ કામ કરો. જેવું કે વાંચન કરવું કે હવા ફેર કરવી (પ્રવાસ કરવો) વગેરે.

૩. રીસેસ લો. ઘણા બધા પ્રોબ્લેમ એકઠા થઈ જાય અને પરિસ્થિતિને પહોંચી ન વળાય એવું હોય તો બધું કામ છોડીને શાંતિથી એકબાજુ બેસી જાવ અને કયું કામ વધું જરૂરી છે અને કયું પછી એની તારવણી કરી આગળ વધો.

૪. ચોગ્ય સલાહકારની સલાહ લો.

૫. દુઃખનું કે ચિંતાનું કારણ જાણવા પ્રયત્ન કરો જેથી એ ખરેખર પ્રોબ્લેમ છે કે આપણા મનથી ઉભો થયેલા પ્રોબ્લેમ છે. દા.ખ. કોઈકે નિંદાના બે શબ્દો કહ્યા હોય તો એના શબ્દોનું અને એના વ્યવહારનું વિશ્લેષણ કરો. જો સારા માટે કહ્યું હોય તો તમે તમારામાં સુધારો લાવવાનો પ્રયત્ન કરો. જો ખોટી નિંદા વૃત્તિથી કહ્યું હોય તો તેના તરફ દુર્લક્ષ કરો. ટુંકમાં કોપણ પ્રોબ્લેમને રાગ-ઢ્ઢેષ વિના જોવો અને ઓળખવો. તેના ઉકેલવાના શક્ય હોય એટલા બધા પ્રયત્નો કરવા બાકી બધું ઈશ્વર પર છોટી દેવું. પ્રભુની ઈચ્છા વગર એક પાંદડું પણ હલતું નથી. બાકી પાણી પોતાનો માર્ગ શોધી લે છે એમ મુશ્કેલીઓનો હલ પણ નીકળે છે.

હળવાશ એટલે કે રિલેક્સેશન કેવી રીતે અનુભવશો ?

૧. પ્રાણાયામ અથવા ઊંડા શ્વાસ લેવા.

શાંતિથી બેસીને ઊંડા શ્વાસ લેવા જેથી શરીરમાં વધું પ્રાણવાયુ દાખલ થાય. પેટ બને તેટલું ફૂલાવો. થોડીક પળ પછી ધીમેથી મોં વાટે હવાને ઉચ્છ્વાસ પેટે જવા દો. આથી શ્વાસોચ્છ્વાસ તમારા કંટ્રોલમાં આવશે. પ્રાણાયામમાં પણ આ જ પદ્ધતિ છે. ઝૂં અથવા હો.....હમ. જેમાં ‘હો’ વખતે ઊંડો શ્વાસ લેવો અને ‘હમ’ ખૂબ ધીમે થવા દેવું એટલે કે ઉચ્છ્વાસ બને એટલો દબાવવો. તે જ વખતે ગળાથી છેક નાભિ સુધી લંબાણથી ઝૂં બોલવાથી ખૂબ જ રાહત અનુભવાય છે.

૨. મનને સ્વસ્થ કરવું.

કોઈ શાંત જગ્યાએ જઈને બેસવું. જ્યાં રેડિયો, બાળકો. ટ્રાફિકના અવાજો ન હોય. આરામદાયક સ્થિતિમાં બેસવું. આપણે કોઈ કુદરતી સૌંદર્યવાળી જગ્યાએ હોઈએ એવી મનોહરિ ઉભરવા દેવી. એ વખતે મોટી આળસ ખાઈને ધીમે ધીમે ઉચ્છ્વાસ કાઢવો. આનાથી થોડા ફેશ થઈ ગયાનો અનુભવ થશે.

૩. યોગાસનો કરવા.

વૈજ્ઞાનિક દ્રષ્ટિથી પગ હવે સાબિત થઈ ચૂક્યું છે કે યોગથી રિલેક્સ થવામાં ઘણો જ ફાયદો થાય છે. યોગ કરવાથી શરીર અને મન તંદુરસ્ત રહે છે.

૪. પેટને હળવાશ રાખો, ખાવામાં ધ્યાન રાખો. પેટ સાફ રહે તો શરીર હલકું ફલ લાગે છે. મનમાં તાજગી રહે છે. અને નાની-નાની બાબતોમાં ચીડ થતી નથી.

ઉપરની પદ્ધતિથી ફાયદો ન થાય અથવા સંજોગો જ વધું પડતા પ્રતિકૂળ હોય એવે વખતે સલાહકારની સલાહ લેવી. આ બધામાં સૌથી અગત્યની વાત છે જીવનમાં હકારાત્મક અભિગમ અપનાવવો.

૧. આત્મદયાને છોડો.

૨. મન મોટું રાખવું.

૩. ધાર્મિકતા અને પ્રભુમાં વિશ્વાસ

૪. સાફ વાંચન

૫. કામમાં વ્યસ્ત રહેવું.

૬. વ્યવસ્થિત પ્લાનીંગ

૭. સારી સંગત

૮. બીજાના દુઃખમાં સહભાગી બનો

૯. બહુ બધા મોરચા સાથે ન ખેલવા.

આમ, મનને સ્વસ્થ રાખવાથી જીવનના ઘણાં દુઃખ ઓછા થઈ શકે છે. જીવન તણાવમુક્ત બની શકે છે અને સાથે સાથે જીવનનો ખરેખર આનંદ મેળવી શકાય છે. ભગવાને તમને શું-શું આપ્યું છે તે ગણાવો અને ઘણાં લોકો આપણાથી પાછળ છે તે જોશો તો દુઃખમાંથી બહાર નીકળી શકશો. દ્રષ્ટિ હકારાત્મક રાખવી. મન નિર્મળ રાખી પ્રભુમાં સંપૂર્ણ શ્રદ્ધા રાખવી. સત્કર્મનું ફળ સાંઝ જ મળે છે અને કુકર્મનું ફળ ખરાબ જ, તે કદી ન ભૂલીને સત્કર્મના રહેવું.

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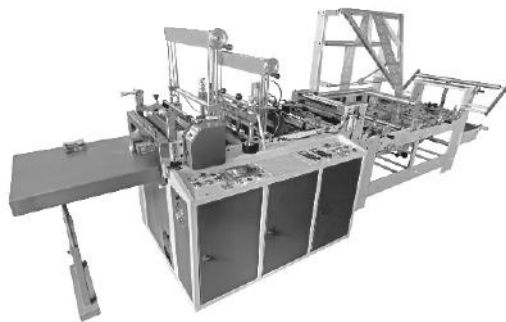
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Index

01. Ajay Industries	27	48. Vadodara Plastic Association	53
02. Amrut Packaging.....	35	49. Vijay Industries.....	6
03. A.R.Die Works. (Surat).....	52	50. Vrunda Enterprise.....	7
04. Arihant Poly Containers.....	10	31. Perfect Colourant (Title Page Strip).....	1
05. Ashok Industries	9	32. Pinakin Plasto forming.....	50
06. Chrysolite-PR.....53	53	33. Plastic Udyog (Title 3 rd Page).....	59
07. Calender	30	34. Print Pack Stero.	51
08. Calender.	31	35. Raj Plastic Industries (Title 1 st Page).....	1
09. Champaneri Engineers & Fabricators.	8	36. Reliable Polymer Industries	51
10. Dilip Engineers (Back Page Title).....	60	37. Rishabh Electronics.....	52
11. Eta Engineering Services.....	9	38. Rohit Industries	34
12. EFL Finance	29	39. Ruby Plastic Machinery	5
13. Five Star Engineers.....	11	40. Sahakar Industries.....	57
14. Gayatri Krupa Engineering Works.....	27	41. Samet Plast	56
15. Jay Deep Engineering.....	4	42. Santam Dye Chem Industries.....	50
16. Jailaxmi Eng. Corp.....	58	43. Sangeeta Engineering Enterprise.....	55
17. Jay Datar	21	44. Shiv Shakti	3
18. Jay Polypack	32	45. Shivam Marketing	50
19. Je-mech Engineers	52	46. Suhani Enterprise.....	25
20. Karm Engineering.....	33	47. Technimont Systems.....	21
21. KMU Hologram	49		
22. La Plus Plast Pvt.Ltd.	11		
23. Little Berg Offset Co.	12		
24. Long Last Heaters	49		
25. Maa Shakti Kunalbhai.).....	28		
26. Makers Polyfilms Pvt.Ltd.	32		
27. Maxx Machines.....	33		
28. Mita Machinery	34		
29. Nisarg Enterprise (Title 1 st Page).....	1		
30. Noyada Engineering.....	49		

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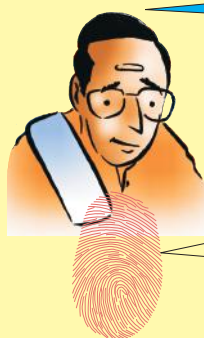
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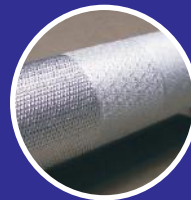
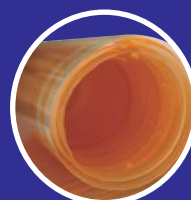
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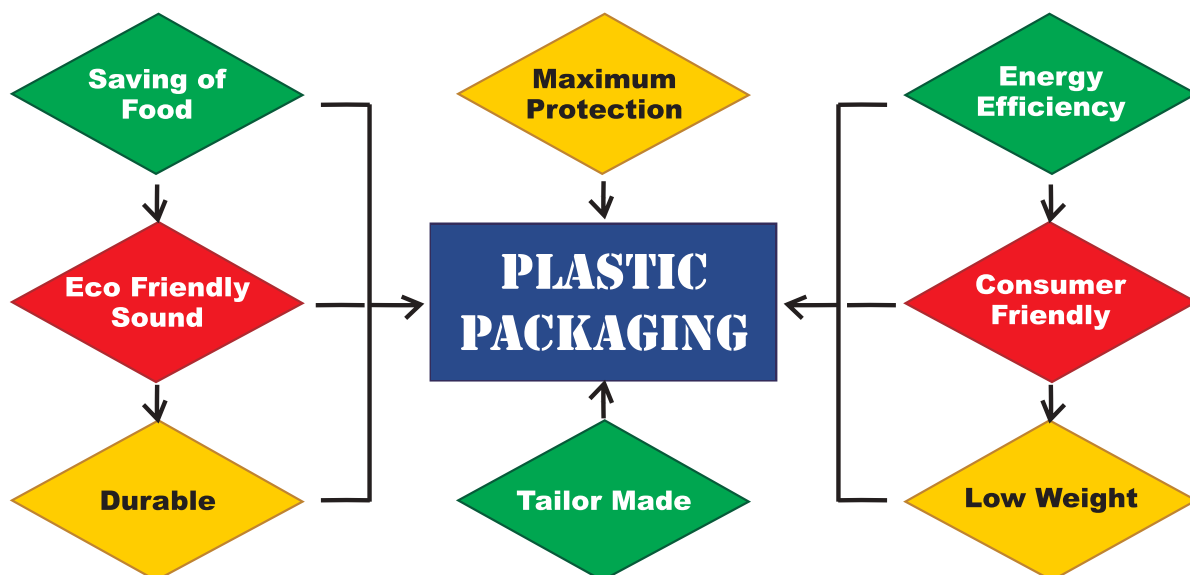
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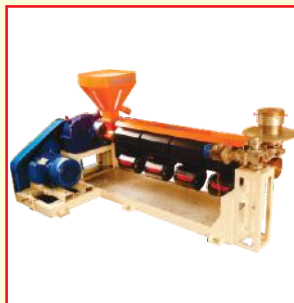
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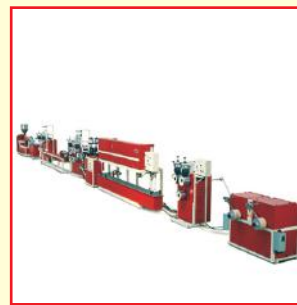
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