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CONTENTS

ADVERTISEMENT LIST. PAGE NO.

ASHOK INDUSTRIES	3
CARMEL ENGINEERING	37
CHAMPANERI ENGINEERS AND FABRICATORS.....	7
FREEDOM ENTERPRISES	23
HARI OM INSULATING MFG.	17
HEATTRANS EQUIPMENTS PVT.LTD.....	35
JAILAXMI ENGINEERING CORPORATION.TITLE PAGE	
JAYANTPANCHAL	36
JAYDEEP ENGINEERING	20
JAYDEEP ENGINEERING	21
M.M.ENTERPRISES	17
MITA MACHINERY	17
ORBIT MASTERBATCHES	29
PEP-CEE PACK INDUSTRIES FRONT INSIDE	
PLAST INDIA FOUNDATION	5

PLASTIC UDYOG BACK PAGE.

SAMIR MACHINERY	19
SATELLITE PLASTIC INDUSTRIES	9
SATELLITE PLASTIC INDUSTRIES	11
SATELLITE PLASTIC INDUSTRIES	15
SEAGULL TEC	38
SICA PLASTIC MACHINERY P.LTD.	13
TOP DRIVE BACK INSIDE	
TRIUNE EXHIBITORS P.LTD.....	22
VISHNU ENTERPRISES	28

CONTENTS

ADVERTISEMENT INDEX	4
ASCEND TO DEMOSTRATE QUALITY	6
CLARIANT SHOWCASED LATEST SOLUTION	8
SONGWON SIGNS EXCLUSIVE	10
SABIC ANNOUNCES PLANS TO EXPAND CAPACITY	12
TE CONNECTIVITY TO SUPPLY HIGH-VOLTAGE	14
SUNDARAM POLYMERS SHOWCASES NEW PRODUCTS	16
SMITH RAPRA PUBLISHING	18
E-WASTE RECYCLESS INDIA.....	24
FORTH COMING EVENTS.	30

Thank You!

We are truly humbled by the record breaking response to PLASTINDIA 2018

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1,800
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ASCEND TO DEMONSTRATE QUALITY, CONSISTENCY OF SUPPLY FOR VYDYNE® PA66 AT PLASTINDIA



Ascend Performance Materials, the world's largest fully integrated producer of nylon 6,6 resin, will demonstrate its ability to provide cost-effective solutions across markets at Plastindia 2018. Ascend will showcase its reliability of supply and the diversity of products made with its signature Vydyne® PA66, including cable ties, automotive engine compartment components and consumer and industrial products, especially cooking utensils.

Global demand for the company's nylon 6,6 products continues to grow annually at around four percent. To stay ahead of demand, Ascend is increasing production capacity for polymers and intermediates by 10 to 15 percent this year. Ascend's unique technology allows it to add capacity quickly and efficiently, without disrupting operations.

"We are committed to a continuous, reliable supply to our customers," says Virgile Rouyer, Ascend's regional sales manager for India, noting that Ascend has added capacity along its value chain consistently. Since 2015, production has increased by 10 to 30 percent, depending on product. Rouyer points out that Ascend's strategy of selling nylon 6,6 globally into almost every end-use market has given it an unparalleled understanding of the entire value chain.

"Our nylon 6,6 is the material of choice across a broad spectrum of applications; from everyday essentials, like cooking utensils, to cutting edge technology, like electric vehicles. Our strategic partnership with Barnet India has made nylon 6,6 available throughout the subcontinent," continues Rouyer. "Our capacity expansions and distributor relationships enable us to meet market demand with highly cost-effective products and solutions."

Ascend is co-exhibiting with Barnet India at booth H2E16 at Plastindia 2018 in Gandhinagar – Ahmedabad from Feb. 7 to 12. Barnet India is the primary distributor of Ascend products in India.

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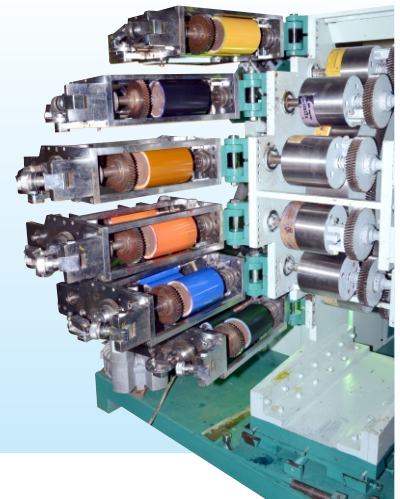
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Clariant showcased latest solutions at Home and Personal Care Ingredients Conference (HPCI) 2018

- ◆ Eosidin™ targets indoor pollution to avoid atopic-prone skin condition and hypersensitivity
- ◆ Eclipsogen® offers carefree broad spectrum UV protection
- ◆ Innovative active ingredients inspired by nature & science



Clariant, a world leader in specialty chemicals, showcased its inspiring range of products for home and personal care at the HPCI Conference 2018 in Mumbai on January 31 and February 01, 2018.

Clariant offers an array of Active Ingredients that can be categorized in: Environment Protection, Moisturizing, Hair Care, Slimming, Skin Repair, Anti-aging, Lightening, Oily Skin, Soothing and Uniformization.

The active ingredient Eosidin is the first product solution focusing on indoor pollution control. Indoor pollution is the accumulation of heavy metals and other materials inside your home. It triggers a lot of irritation processes and can lead to atopic-prone skin conditions. Eosidin specifically targets this process to avoid atopic-prone skin condition and hypersensitivity. Eosidin is made from a well-characterized extract of a green fruit called citrus unshiu found on Jeju Island, a protected reserve off the coast of the Korean Peninsula.

Clariant's Eclipsogen is an UV filter for skin and hair protection which allows you to formulate beyond sunscreens, addressing the most relevant trends in sun care market. Exposure to damaging ultraviolet radiation is associated with 90% of skin cancer, along with skin aging. The challenge is to keep your skin protected from UV-induced skin damage.

"One of the key strategies of the Industrial and Consumer Specialties business in India is to work closely with leading as well as upcoming Indian brands across the personal care industry, as we see a huge untapped potential and opportunity. Clariant thrives on its ability to identify these opportunities at an early stage and develop innovative solutions. This robust portfolio of formulation inspirations, across several market segments of home & personal care industry is our commitment towards enhancing overall consumer experience," said R. Kumaresan, Head of Industrial & Consumer Specialties, Clariant in India.

Clariant also showcased Praepagen® TQSV a vegetable-based product, an esterquat suitable for use in fabric softeners and Genamin® CTAC, a surfactant for hair conditioner which improves smoothness of dry and wet hair.

"Clariant's new promotion products featured under 'Clean and Care' concept for home care application, Genamin 1530 a newly developed surfactant blend – a hard surface cleaner which has excellent performance in heavy oil stains removal and Praepagen TQ type ester quats, which is vegetable base product for fabric softener. Innovation is given a high priority at Clariant. These newly developed products will definitely help us deliver new breakthroughs and capabilities in this new and exciting area of the home care market," said Allen Huang, Technical Manager for Industrial and Home Care, Clariant in Great China.

Visitors to Clariant's booth were offered an experiential zone to get introduced to its array of solutions, which touch consumers' lives in everyday products. During the 2-day show at HPCI, Clariant's team of technical and customer service experts were present at their booth, to explain details of their products and answer enquiries from customers and visitors.

www.clariant.com

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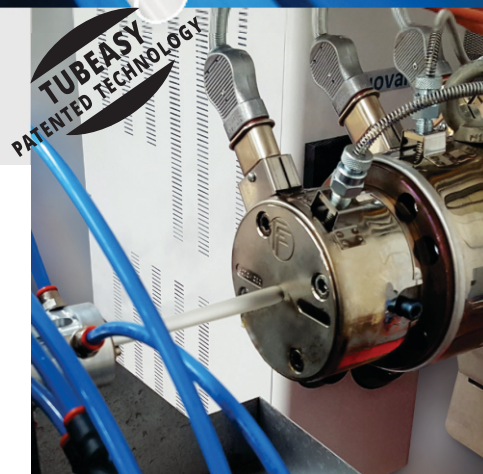
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SONGWON signs exclusive distributorship with Connell Bros. Co. for India

SONGWON Industrial Co., Ltd., the second largest manufacturer of polymer stabilizers in the world has signed an exclusive distributorship agreement in India with Connell Brothers, the largest marketer & distributor of specialty chemicals and ingredients in the Asia-Pacific region.

Under the agreement, Connell Brothers will exclusively market and distribute SONGWON's fuels and lubricant additives (including aminic, phenolic and phosphite) throughout India. The agreement also serves to extend SONGWON's already strong presence in India and sets the foundation for further expansion.

"India is an important region for us and we are very

pleased to have Connell Brothers as our partner for this market," Olivier Keiser, Leader BU Lube Additives. "With their highly qualified and knowledgeable representatives, unparalleled regional experience and well-established network, we are confident that our customers will receive the highest level of service."

"We are looking forward to becoming a partner to SONGWON and to expanding our offering with its comprehensive high-quality fuel and lubricant solutions. By adding SONGWON's business to our portfolio, we are strengthening our platform to support our customers' growth aspirations," says Tejas Parekh, Country Manager, India.

www.songwon.com

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SABIC announces plans to expand capacity for ULTEM™ and NORYL™ resin production



- Planned expansion of footprint in Singapore will localize ULTEM™ resin production for customers in Asia, increasing global production by 50%.
- Capacity expansion in Asia positions SABIC as the only petrochemical company to produce high heat ULTEM™ resin in the Americas, Europe and Asia.
- Recommissioning of NORYL™ resin manufacturing operations in Bergen op Zoom expected to increase global production more than 40%.

In response to customer needs, SABIC has announced projects in Asia and the Netherlands designed to increase global capacity for two of its high-performance engineering thermoplastic materials, ULTEM™ and NORYL™ resins. To increase capacity for ULTEM™ resins, a polyetherimide material, SABIC plans to expand its existing footprint in Singapore where it currently has compounding operations, pending final government clearance. The planned new production facility in Singapore is expected to go online in the first half of 2021. The company also plans to recommission operations at its Bergen op Zoom PPE resin plant in the Netherlands by the end of 2019 to produce polyphenylene ether (PPE), the base resin for its line of NORYL™ resins and oligomers.

“Increased customer demand, especially in Asia, prompted the further capacity expansion plans,” said Ernesto Occhiello, Executive Vice President, Specialties, SABIC. “While interim capacity gains for both ULTEM™ and NORYL™ resins have been achieved, global demand for both product lines has increased significantly, and SABIC is planning to expand its capacity to support our customers’ growth aspirations. We will continue to focus efforts to deliver the right capacity, in the right global locations, at the right time to support our customers’ needs.”

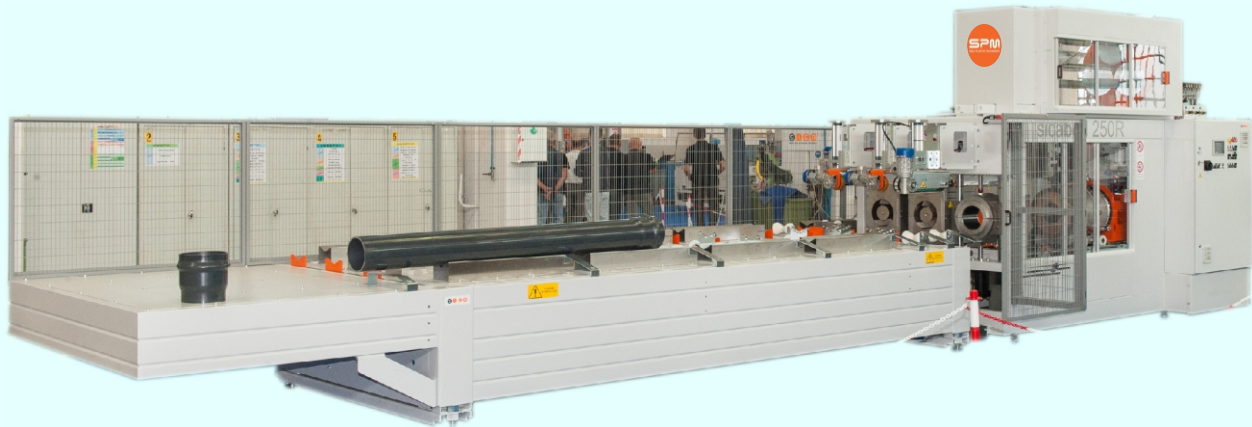
ULTEM™ resins are currently produced in two locations, Mt. Vernon, Indiana, and Cartagena, Spain. The planned operations in Singapore will localize supply for customers in Asia, reducing lead times, especially for shorter qualification cycle applications. When fully operational, the Singapore facility is expected to increase capacity by 50% over a 2018 baseline. “With the addition of Singapore, SABIC will be the only petrochemical company with the ability to produce the high heat resin in Asia, the Americas and Europe, a significant advantage for the company’s customers,” Occhiello noted.

The decision to recommission the Bergen op Zoom NORYL™ resins facility provides customers with a second source of PPE resins globally, and affirms SABIC’s commitment to the European market and global customers who specify their material solution needs from Europe. When operational, the Bergen op Zoom facility is expected to add more than 40% global capacity over a 2017 baseline.

In the meantime, SABIC expects incremental manufacturing process improvements at the Selkirk, New York, and Mt. Vernon plants to provide increases in NORYL™ (PPE) resin and ULTEM™ (PEI) resin production by the end of 2018. The resulting supply gains will be used to meet growing demand and improve lead times for customers.

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TE CONNECTIVITY TO SUPPLY HIGH-VOLTAGE ROOFLINE EQUIPMENT FOR STADLER SMILE TRAINS

Stadler's first ever high-speed trains will see TE equipment running through the Gotthard Base Tunnel



TE Connectivity (TE), a world leader in connectivity and sensors, has been selected by train manufacturer Stadler to supply high-voltage electrical roofline equipment for the SMILE high-speed Electric Multiple Unit (EMU) trains. The SMILE is Stadler's first high-speed platform and reinforces TE's place as the global market leader in roofline cable solutions for high-speed trains (te.com/rail).

TE is supplying roofline cable assemblies and transformer down-leads that will form part of the current collectors on the roof of the SMILE trains that will carry current to the traction transformers. TE's equipment has a 30-year track record on board high-speed trains, which gave Stadler confidence in its performance.

The first units will enter service at the end of 2019 when Swiss Federal Railways (SBB) starts operating 29 SMILE trainsets, under the name Giruno, through the new Gotthard Base Tunnel that links Basel and Zürich in Switzerland with Milan in Italy.

Wesley Gilbert, TE Connectivity's head of strategy and business development for rail said: "This latest contract with Stadler highlights TE's capabilities in electrified railways, which are central to the future of transportation, with green energy powering fast links between cities and states."

High-voltage electrical transmission is particularly challenging on board high-speed trains as components must be able to withstand mechanical shock and vibration, rapid air flow and fluctuating environmental conditions on the roof of the train. TE's high-voltage engineering team in the UK custom-design and test high-voltage components for each application to ensure that they will perform reliably in the unique climatic and air quality conditions of each railway line.

The contract builds on TE's success in providing high-voltage roofline equipment for Stadler's FLIRT 3 EMUs. TE will manufacture the components in Poland and India. www.te.com

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Sundaram Polymers showcases new products at PlastIndia 2018

Ahmedabad, 7th February 2018: Sundaram Polymers, a division of Brakes India Pvt. Ltd., is showcasing new products – compounded grades based on carbon fibre and complex coloured products at the PlastIndia 2018 show held between 7th – 12th February at Ahmedabad, Gujarat.

These products are customized to meet customer specifications and cater to various market segments like automotive, appliances, electrical & electronics, telecommunications and other engineering sectors. Key benefits of these products include high mechanical strength, exceptional toughness, high temperature resistance, self-lubricity, high flame-retardancy, see-through clarity and low specific gravity. The complex coloured products have been developed to strengthen the aesthetics of the product, and it also meets the RoHS standards.

Among its other product display, Sundaram Polymers is also showcasing the compounded engineering thermoplastics and injection moulded parts that include polyamide – 6 & 66, polycarbonate, polyesters (PET / PBT), polyacetal (POM), polypropylene, ABS, PPS & PES. Through this display, Sundaram Polymers also reinforces its commitment to provide end-to-end solutions to customers by supporting from design to parts supply and in providing solutions for metal to plastic conversions.

As part of the future plans, Sundaram Polymers aims to focus on long fibre reinforced plastics based on engineering polymers such as polypropylene, nylons, etc. and speciality compounded grades based on PEEK, PES/PS, PPS.

“Over the past 3 years, Sundaram Polymers has focused on building its R&D capability as well as developing its product portfolio. We have had some very exciting developments with high temperature and high strength compounds, that include PPS and carbon short fibre compounds. Our team has also developed a wide range of aesthetic and colour matched parts for the automotive interiors and household goods segments. With this technical strength and our good reputation for quality and reliability in the market, we are a preferred supplier to many OEMs and moulders. We will take these capabilities to new customers and new applications in the coming years”, says Sriram Viji, Deputy Managing Director – Brakes India.

Sundaram Polymers is showcasing its products in hall no 2, stall no. 14.

About Sundaram Polymers

Sundaram Polymers, a division of Brakes India Pvt. Ltd., manufactures a comprehensive range of high quality engineering thermoplastics, developed specifically for the production of high performance injection moulded parts used in automotive, electrical, electronic, mechanical and high precision engineering industries.

Visit www.brakesindia.com for more information.

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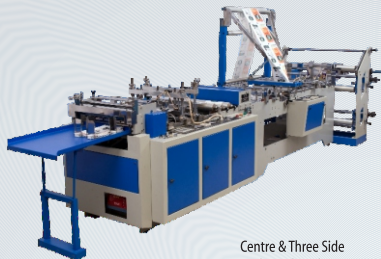


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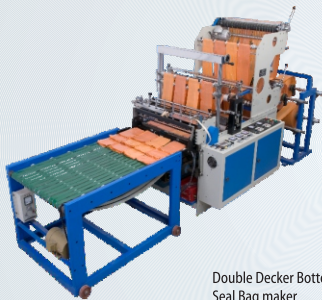
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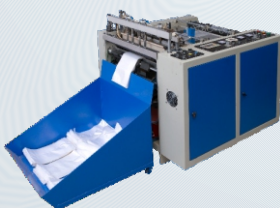
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Smithers Rapra Publishing has announced the release of Rubber Analysis: Characterisation, Failure Diagnosis and Reverse Engineering

Smithers Rapra Publishing has announced the release of Rubber Analysis: Characterisation, Failure Diagnosis and Reverse Engineering

Rubber analysis plays a vital role in assuring that the many products that are manufactured from the material are fit for purpose, as well as contributing to many other important investigative activities within the rubber industry and in other industrial sectors.

This comprehensive, application-based review, with extensive up-to-date referencing, covers all the important applications and subject areas associated with the analysis of rubber compounds and rubber products.

The characterisation of rubber polymers is described, as is the identification and quantification of specific additives within rubber samples. The approaches and methodologies that can be used to carry out partial or complete reverse engineering work on fully compounded products are also included.

The many ways that rubber analysis can contribute to failure diagnosis studies are featured throughout the book and its use in the identification of contaminants in final products and the characterisation of surface blooms are highlighted.

The roles that rubber analysis plays in quality control work, curing studies, and the characterisation of latex and latex products are described. Also included, are its application to the characterisation of rubber fume, the identification of extractables and leachables from rubber

products used in medical devices and pharmaceutical packaging, and the identification of potential and actual migrants from food contact rubbers.

The author has drawn on 40 years of experience within the rubber industry to ensure that this book is essential reading for anyone requiring up-to-date information on how a wide range of analytical techniques can be applied to obtain industrially relevant information on many different rubber products at all stages in their manufacture and life cycle.

Rubber Analysis: Characterisation, Failure Diagnosis and Reverse Engineering is available from www.polymer-books.com, or from Publications Sales, Smithers Rapra, Shawbury, Shrewsbury, Shropshire, SY4 4NR, United Kingdom, Tel: +44 (0)1939 250383, Email : PSales@smithers.com.

Note to Editors For further information or your complimentary copy for editorial review please get in touch with Claire Griffiths.

About Smithers Rapra...
Smithers Rapra is a global leader in rubber, plastics and polymer testing, consulting services, and conferences, training, publications and market reports, focused mainly on the tire, industrial, automotive, consumer and medical industries.

Smithers Rapra encompasses what was previously Rapra Technology Ltd, established in the United Kingdom in 1919 and Smithers Scientific Services, established in the United States in 1925.

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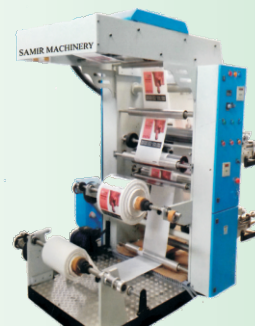
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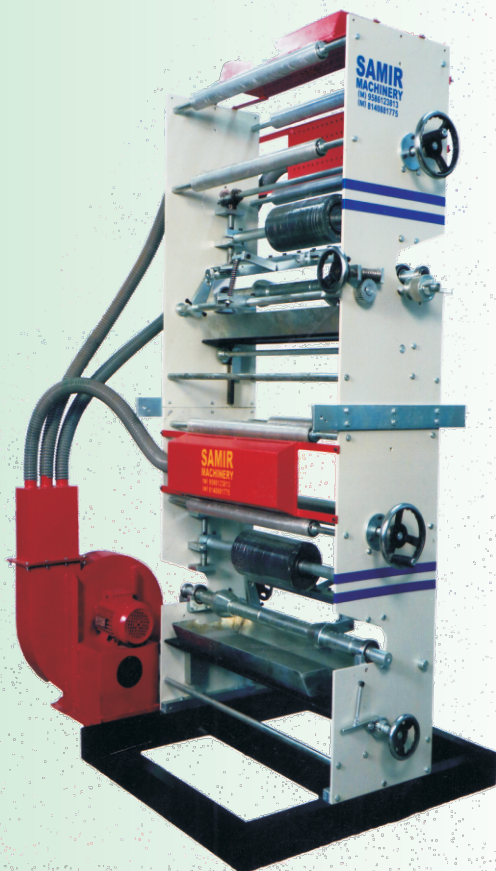
2 colour Rotogravure



6 colour Flexo Machine



2 colour Flexo Machine



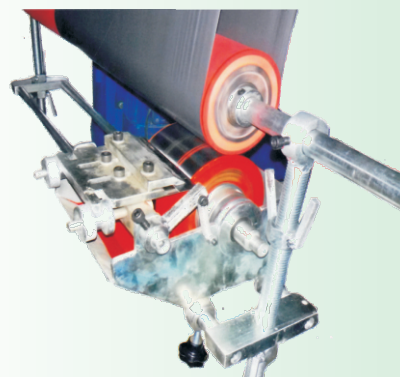
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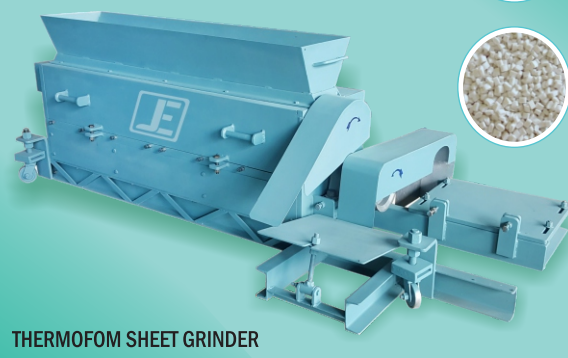
402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India
Contact Person :
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WHAT IS E-WASTE?

E-Waste or WEEE (Waste electrical and electronic equipment) or e-scrap comprises of all equipment using electrical or electronic parts. Any equipment with electrical or electronic components becomes 'e-waste' after its usable life. Such end of life may happen due to many reasons such as technology obsolescence, functional damage, higher repair costs or unneeded.



ABOUT E-WASTE RECYCLERS INDIA

EWRI is a women entrepreneurship and professionally managed organisation which has pan India presence and based in New Delhi.

EWRI puts equal emphasis on customer satisfaction as well as taking care of the environment, health and safety standards. Following this philosophy has turned 2010 founded organisation as one of the leading player in India offering services from collection, recycling to safe disposal of electrical & electronics scraps. The motivated team of expert professionals along with highly advanced technological recycling processing tools and infrastructure that provide cost effective and timely services to its customers.

Our services are availed by the clients in IT & Telecommunications, hospitals, schools & universities, banks & financial institutions, government, electronics retailers, small businesses and others.

IS E-WASTE HAZARDOUS?

If E-Waste is dumped and exposed to soil and moisture, a slow process of degeneration starts. In this process, ionic cells are formed between the metal and soil molecules leading to a slow leaching. This gradually poisons the soil and makes it completely infertile and hazardous to health. Also, many unorganized sector recyclers use crude methods for recovering precious metals. Due to such methods, there is a significant amount of land, air and water pollution that can lead to several health problems.

WHY SHOULD YOU RECYCLE E-WASTE?

Why should you recycle electronic devices instead of just throwing these away? Here are some reasons to recycle e-waste:

- It helps to preserve our natural resources.
- It keeps toxins out of landfills, including toxins like mercury and lead.
- It frees up space in your office and home.
- Recycling e-waste is the socially responsible thing to do!

E-Waste also contains valuable materials such as gold, silver, copper, steel, and plastic and it makes good sense to recover these materials instead of throwing these away.



WHERE DOES IT ALL GO?

Interstate Waste Services has conscientiously subscribed to the "Three R's":

- Reduction of waste through advanced, proprietary sorting, processing, and tracking systems.
- Reuse of equipment whenever possible.
- Recycling practices from start to finish.

Clean the Environment Protect the Environment

IF E-WASTE THINK EWRI.in

E-WASTE DISPOSAL – WHAT CAN YOU GET RID OF?

EWRI takes care of your e-waste recycling. Businesses and households have varying needs for e-waste recycling, but in general, these are the types of products, which we collect and recycle:

- IT & Telecommunications, Mobile, pager etc.
- Photocopier, printer, fax, landline phone etc.
- UPS, Inverter, battery, stabilizer etc.
- Electrical panel, motor, fitting & misc etc.
- Electronic appliances, TV, LCD, Washing machine, AC, Refrigerator etc.
- CFL / Tube light, Toner / Cartridge / Dry cell etc.



“E-Waste Bins on Request”

SAVINGS BY RECYCLING

A) Every ton of Aluminum recycle makes the following savings:-

- 6 tonnes of bauxite.
- 4 tonnes of chemical products.
- 14 MWH of electricity.

i) It saves 70% of energy to recycle plastic.

ii) It saves 40% less energy to recycle glass.

B) Every ton of steel recycle makes the following savings:-

- 40% of water required in production.
- 75% of the energy needed to make steel from virgin material.
- 1.28 tonnes of solid waste.
- Reduction of air emissions by 86%.
- Reduction of water pollution by 76%.

BENEFITS OF RECYCLING

- Recycling reduces the need for land filling and incineration.
- Recycling prevents pollution.
- Recycling saves energy.
- Recycling decreases emissions of greenhouse gases that contribute to global climate change.
- Recycling conserve natural resources.
- Recycling helps sustain the environment for future generations.



OUR SERVICES

We offer end to end solutions for collection, recycling and safe disposal of electrical and electronic scraps. **Our services includes:-**

- **Recycling of E-Waste**
- **Recycling of Toner Cartridge**
- **Onsite Hard Disk Shredding / Scraping**
- **100% Data Destruction / Wiping**

PAN INDIA LOGISTICS

- We have efficient logistics team to transport E-waste in secure and environment friendly way from across India to our facility.
- Materials are unloaded in our facility in secure manner with complete safety precautions.



CORPORATE SOCIAL ACTIVITIES

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COLLECTION CENTRES

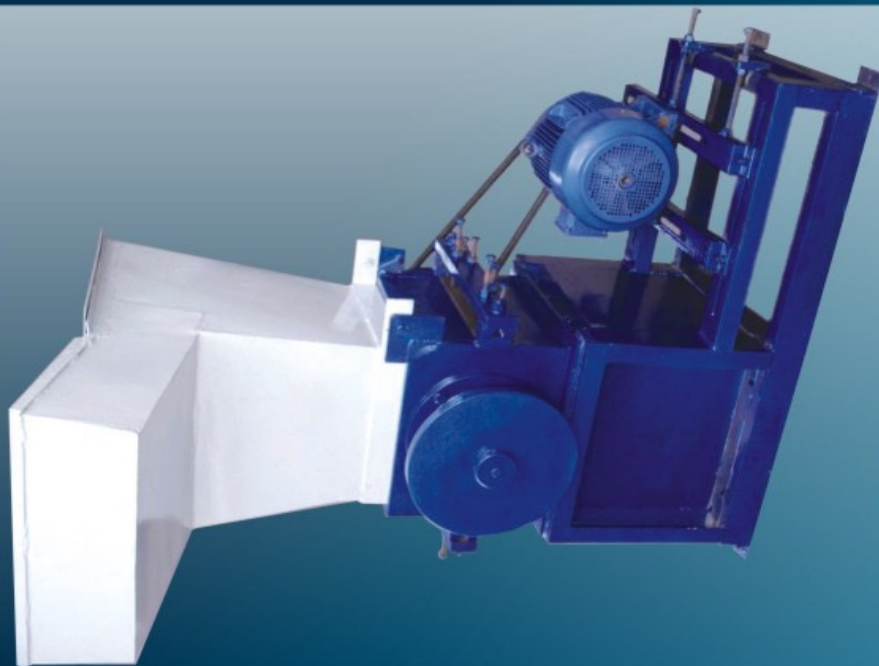
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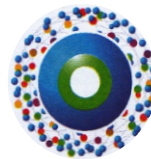
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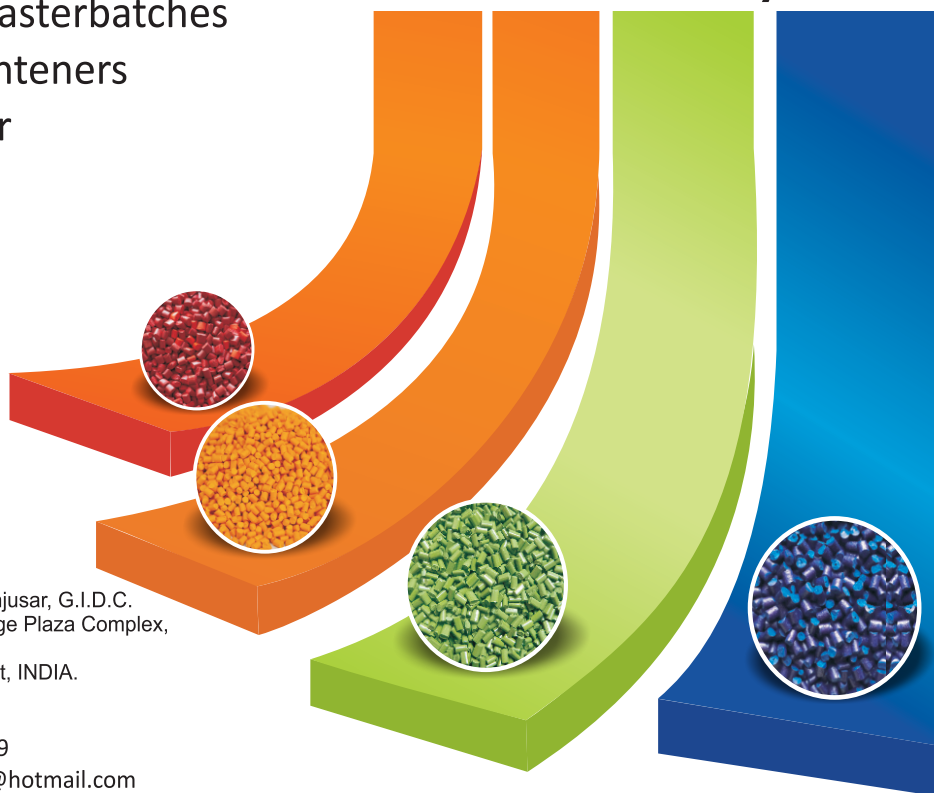
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PLAST BENGAL	13-15 JULY-2018	KALKATA (WEST BENGAL)
KENYA	13-15 JULY-2018	NAIROBI
IPLEX	3-6 AUGUST-2018	HYDERABAD
SRI LANKA	12-Aug-18	COLOMBO
SOUTH AFRICA	13-15 NOV-2018	JOHANNESBURG
IND PLAST'18	30-3DEC-2018	KOLKATA
PLAST SHOW	16-19 DEC-2018	RAJKOT
PLEXPO INIDA	17-20 JANUARY-2019	GOREGAON (MUMBAI)
INDIAPLAST	28 -4 MARCH-2019	NOIDA
PLASTIWORLD	5-8 MARCH-2019	DELHI
VIETNAM	20-22 FEB-2020	HO CHI MINH CITY



KAMAL SHAH

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kamal@positiveaggression.in

પી.વી.સી. કોર્મ્ડ બોર્ડ મેકીંગ — પ્લાસ્ટિકનું પ્લાયવુડ

લાકડું પ્રતિદિન ઘટતું જાય છે, પર્યાવરણવિદો ની નજરમાં આવતી વસ્તુઓ ના ધંધા કરવા માટે તકલીફો વધતી જવાની છે. આવી વસ્તુઓ નો પર્યાય શોધવો જરૂરી હોય છે. પ્લાયવુડના વિકલ્પ તરીકે બનતું અને વધારે સારા ગુણધર્મો ધરાવતું પ્લાસ્ટિકનું પ્લાયવુડ એક ઇત્તમ વિકલ્પ છે.

- ઉધઈ ના લાગે.
- પાણીની અસર ના થાય. માઈકા લગાવવાની જરૂર નહિ.
- વળી ના જાય, વાતાવરણની અસર થતાં વર્ષો લાગે.
- રંગરોગાનની જરૂર નહિ, / વાર્નિશ ની જરૂર નહિ (તે છતાં પણ કરવું હોય તો કરી શકાય)
- સુથારી કામ માં સમય અને પૈસાની મોટી બચત.
- ઇચ્છિત રંગ, સાઈઝ, જાડાઈ, વજન (ધનતા) માં બનાવી શકાય, જેથી ખર્ચો બચે.

એકજ મોડ (ડાઈ) માંથી પાંચ થી વીસ એમ. એમ. ની જાડાઈ વાળાં, બોર્ડ નીકળી શકે, પહોળાઈ, ઓન લાઈન કાપી શકાય, બોર્ડ બન્યા પછી પણ જરૂર પ્રમાણે પહોળાઈ લઈ શકાય. બાવીસ થી પાંત્રીસ એમ. એમ. જાડાઈ માટે બીજા મોડની જરૂર પડે.

ઉપરના કોટામાં જોઈ શકાતું ટેબલ, કબાટ વગેરે પ્લાસ્ટિક પ્લાયવુડ માંથી બનાવેલ છે.

મહત્વની વાત: આવું મટીરીયલ બનાવવા માટે જરૂર પડશે:

મૂડી રોકાણ: રુપિયા ત્રણ કરોડ નેવું લાખ. [જમીન, બિલ્ડીંગ, મશીનરી, પાવર, કેબલ, પેનલ, ઇન્સ્ટોલેશન વગેરે તમામ ખર્ચ. એક ડોલર ના રુપિયા સાઈઠ ધારવા પ્રમાણે. સારી ક્વોલિટી ના પ્રોજેક્ટ માટે.]

અતિ મહત્વની વાતો હવે શરૂ થાય છે.

આવું મટીરીયલ બનાવવા માટે: કાચો માલ અને લાગતની કુલ કિંમત વહેંચતા પ્રતિ કિલોગ્રામ કિંમત બેસે લગભગ રુપિયા સો { પ્રતિ કિલોગ્રામ } [લગભગ ચાર કરોડ રુપિયાના ઇન્વેસ્ટમેન્ટ પર].. ..

બજારભાવ રુપિયા એકસો છપ્પન પ્રતિ કિલોગ્રામ. ગણતરી માટે ધારવામાં આવ્યું પંદર એમ. એમ. નું 0.55 ધનતા વાળું બોર્ડ. આ પ્રમાણે બજારભાવ બેસે: રુપિયા એકસો વીસ પ્રતિ સ્કેવર ફૂટ.. ..

આ હિસાબે ઉપરોક્ત રોકાણથી કરવામાં આવેલ પ્રોજેક્ટનું વળતર લગભગ રુપિયા 6,50,00,000/- સુધી થવા જાય છે.

ઉપરોક્ત સેટ અપ (જો ઉત્તમ ક્વોલિટી ની મશીનરી હોય) માંથી જ બનાવી શકાય: લાકડું અને પ્લાસ્ટિક ભેગાં કરીને (વુડ + પ્લાસ્ટિક) બોર્ડ.

આપણે ત્યાં અત્યારે મરીન પ્લાયવુડ વપરાશમાં છે. ઉપરોક્ત ચિત્રો માં વુડ પ્લાસ્ટિક બોર્ડ છે.

શ્રવણાઓ :

- વજનમાં હલકું જેથી હેરફેર માટે ઓછી કિંમત લાગે,
- પાણીની અસર ના થાય. ઉધઈ ના લાગે.
- લાંબી આવરદા
- ધાબું ભરી ત્યારે સરકેસ ઉત્તમ બને.
- સમયની બચત થાય.

The Author, based at Ahmedabad, is a Professional consultant assisting to set up Lucrative / new projects.

Energy Conservation Opportunities in Plastics Processing Industries

Energy management is potentially one of the most cost-effective actions that a company can take to reduce both carbon emissions and costs. Energy costs are rising and there is no reason to believe that they will decrease in the future. The returns from energy management are much better than the returns from increasing sales. Energy management requires both measurements and an understanding of the process.

This section presents the most common recommendations of electrical energy conservations that can be applied in a typical plastic facility.

Improvement of the Electrical Power Factor of the Facility:

The average power factor in this sector has been estimated as 0.89 – 0.95, which is considered low in terms of industry standards. Power factor can be an important aspect to consider in an AC circuit; because any power factor less than unity means that the circuit's wiring has to carry more current than what would be necessary with zero reactance in the circuit to deliver the same amount of (true) power to the resistive load. Hence, the power factor of the generator can be improved by addition of capacitors parallel to the line. The penalty due to power factor has been estimated as 8-12% of total billing. By adding the appropriate capacitor, the charged amount will be reduced to zero. The payback period will be approximately 5-7 months.

Replacement of Energy-Inefficient Motors:

It has been found that the average current operating efficiency of a typical motor is 78%. This low efficiency is due to the common practice by many facilities to simply rewind an existing motor when it burns out rather than purchasing a high efficiency replacement motor. However, a rewind motor is typically less efficient than a new one. The loss of efficiency is due to the age of the failed motor and degradation of its stator core during failure, or as a result of the rewind process. The typical efficiency loss ranges from 1% to 5% for each rewinding process.

Installation of Variable Frequency Drives (VFD):

In many industrial environments, the application of variable speed control is cost effective. Energy savings result from reduced power consumption by the motors. As the system power requirements are reduced, the power consumed by the equipment can be reduced by an amount significantly greater than can be achieved with the existing controls. For example, in the case of pumps, flow is often controlled (throttled) by valves, which increase the pump head and reduce the flow rate. In the Plastic industry, VFDs can be applied to injection and blow moulding motors, pumps, and compressors. It is estimated that a saving of 15-20% of the motor electrical energy can be achieved if such controllers are adopted. Assuming an average saving of 17.5%. In average, the payback period will be approximately 9-12 months.

Repair of Compressed Air Leaks

The cost of compressed air leaks is the energy cost to compress the volume of lost air from atmospheric pressure to the compressor operating pressure. The amount of lost air depends on the line pressure, the compressed air temperature at the point of the leak, the air temperature at the

compressor inlet, and the estimated area of the leak. The leak area is usually detected depending on the sound and feeling of air flow from the leak. An alternative method to determine total losses due to air leaks is to measure the time between compressor cycles when all air operated equipments are shut off. It is estimated that a saving of 15-20% of the compressor electrical energy can be achieved if air leaks are eliminated. Assuming an average saving of 17.5%. In general, implementation involves one or two of the following: replacement of couplings and/or hoses, replacement of seals around filters, shutting off air flow during lunch or break periods, and repairing breaks in lines, etc. The payback period will be approximately 10-20 days.

Avoiding Poor Practices of Compressed Air

Usages:

On site, several poor practices of compressed air usage have been noticed. For examples: Several companies use the compressed air to cool the extruded pipes or some devices such as motors, while others use it for cleaning purposes. Since the use of compressed air is either for cooling or cleaning purposes, air at sufficient flow rates can be adequate for these purposes. This can be done by blowers which use much less energy. It was estimated that a saving of 10-20% of the compressor electrical energy can be achieved by avoiding such poor practices. Implementation costs include purchasing blowers to replace the compressed air. The payback period will be approximately 1-2 month.

Insulation of the Extrusion, Injection, and Blow Moulding Machine Heaters:

On site, it was found that some areas of the extrusion, injection, and blow moulding machines are not well insulated. This results in heat losses and associated energy costs. These areas of heat losses have to be studied. The energy savings were estimated to be 10-14% of the total input controls such as sensors, timers and push switches can automatically reduce lighting costs without affecting product or lighting quality.

electricity to heaters. Implementation costs include purchasing of insulation material in addition to labour costs with a payback period of approximately 1-2 months.

Building

Building energy costs are not always a significant percentage of the total energy costs in plastics processing and at the typical site they are 7–8% of the total energy costs. Despite this, they are almost always the first area to be considered and improving building energy efficiency can reduce costs, improve staff comfort and improve work output.

Lighting

Lighting only represents around 5% of the energy use at a typical plastics processing. Lighting can be divided into 'ambient' and 'task' lighting - they are very different. Ambient lighting is to allow safe movement; task lighting is to allow completion of a specific task. The lighting levels are very different, recognizing this and taking action to separate them can reduce costs.

A 'lighting map' is vital in reducing lighting energy use. Map the lights, switches and controls on the site to identify areas for improvements.

Investments in replacing the LED lights & in

Conclusions

An analysis and estimation of the potential electrical energy saving opportunities in the plastic industry has to be carried out. The results will be - there is a large room of improving the efficiency of plastics processing unit electricity consumption in this industry with remarkable energy cost savings. The total electricity cost savings represent nearly 23% of the industry's total annual electricity bill. This can be considered as an effective option for increasing profit and competition within this sector. Having listed all the different remedies that can lead to electrical energy conservation, the implementation of these recommendations is very crucial for the plastic industry to reach the desired cost savings. Such study can be considered as the corner stone in achieving national energy savings among all plastics processing industries. Therefore, it is highly recommended to carry out such studies and analyses in industries.

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અનેક સમસ્યા વચ્ચે પીસાઈ રહેલે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝ

પ્લાસ્ટીક પ્રોડક્ટસ માટે ભારત વિશ્વમાં ઘણા ક્રમાંક ધરાવે છે. સમગ્ર દેશમાં આ ક્ષેત્ર માં ઘણા એકમો આવેલા છે. તદ્ ઉપરાંત પ્લાસ્ટીકનો ઉપયોગ આજે મોટા ભાગની ઈન્ડસ્ટ્રીઝ વિવિધ ક્ષેત્રે કાર્યરત છે. ગુજરાતની વાત કરીએ તો આ ક્ષેત્રમાં ગુજરાત રાજ્યનો સિંહ ફાળો છે. જેમ કે અણદાવાદ, વડોદરા, હાલોલ, વાપી, વલસાડ,, દમન, સીલ્વાસા, સારીગામ, રાજકોટ, સુરત જેવા વિસ્તારો પ્લાસ્ટીક ઉદ્યોગનાં મહત્વના કેન્દ્ર છે. એક અંદાજ મુજબ વડોદરા, અમદાવાદ, હાલોલ, વાપી, વલસાડ વગેરે માં મોટી સંખ્યામાં એકમો કાર્યરત છે. જેમ કે મશીનરીની બનાવટ, રો મટીરીયલ તેમજ મોલ્ડીંગ પ્રોડક્ટસ બનાવનારા ઉદ્યોગો ફેલાયેલા છે. સમગ્ર દેશમાં ફેલાયેલ પ્લાસ્ટીક ઉદ્યોગ હાલ કઠીન સંજોગોમાંથી પસાર થઈ રહ્યો છે. એકાદ બે નહીં બલ્કે અનેક સમસ્યાઓને કારણે આ ઉદ્યોગ મૂરઝાઈ રહ્યો છે. દેશમાં હાલમાં ઓદ્યોગીક ક્ષેત્રે લાભા સમયથી મંદીના કારણે મોટો માર સહન કરી રહ્યો છે. વધતા ઉત્પાદન ખર્ચ, વધતા કાચા માલનો ભાવ અને વપરાસ કરનાર ગ્રાહકો દ્વારા ભાવ વધારો નહીં આપવા વિરોધ વચ્ચે હાલમાં સમગ્ર દેશમાં કરોડોના પ્લાસ્ટીકના ઉદ્યોગની હાલત સુકા ઝાડ જેવી દુકાળગ્રસ્ત જેવી હાલતમાં પીસાઈ રહી છે.

પ્લાસ્ટીક ઉદ્યોગમાં ચાલી રહેલી મંદીના કારણે તેમજ સતત ભાવ વધારા વચ્ચે મોટા ભાગના કારખાના મરવાના વાકે જીવી રહ્યા છે. મશીનરી બનાવટના સેક્ટરની ઈન્ડસ્ટ્રીના અગ્રણીઓને ડર છે કે બજારમાં જ્યારે માંગમાં વધારો થશે ત્યારે કેટલી ઈન્ડસ્ટ્રીઓ કાર્યરત હશે. પ્લાસ્ટીક હાલમાં દરેક ક્ષેત્રોમાં જેમ કે ઓટોમોબાઈલ ક્ષેત્રે, ટેક્સ્ટાઈલ ક્ષેત્રે, ઓટો પાર્ટ્સ, મશીનરી, મત્સ્ય ઉદ્યોગ, ઇલેક્ટ્રીકલ

ઉપકરણો વગેરે જેવા ઉદ્યોગોમાં માંગ ઘટતા પ્લાસ્ટીકના માલના વેચાણને સીધો માર પડ્યો છે. આ ઓછું હોય તેમ ત્યાં ઉત્પાદન ખર્ચ વધતાં દુકાળમાં અધિક માસ જેવી પરીસ્થિતી સર્જાઈ છે. પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝના વેપારીઓના જણાવ્યા પ્રમાણે કાચા માલના ભાવમાં સતત વધારો રહ્યો છે. છેલ્લા અમુક સમયથી કાચામાલના ભાવમાં અદાજે ૯૫ % વધારો થયો છે. આ ઉપરાંત મોટા ભાગે મશીનરી મોઢી થઈ રહી છે. કારીગરોની અછત, વીજળી ખર્ચમાં ખાસ્સો વધારો થઈ રહ્યો છે. આ બધું ઓછું, હોય એમાં કેન્દ્ર સરકાર કે રાજ્ય સરકાર ના નિયમો ની ઘણી સમસ્યાઓનો સામનો કરવો પડે છે. ભારતમાં પ્લાસ્ટીક ઉત્પાદનમાં ૩૫% મોટા એકમોનો હિસ્સો રહેલો છે. જ્યારે મધ્યમ અને નાના એકમોનો ૬૫% હિસ્સો હોય છે.

ઈન્ડસ્ટ્રીઝ માં ટકી રહેવા માટે અને મંદીના મોહોલ વચ્ચે ઉત્પાદન જારી રાખવા માટે પ્લાસ્ટીક ઈન્ડસ્ટ્રીઝના વેપારીઓને સરકારના ટેકાની જરૂર હોય છે. ઓછી માંગ વધતા બાબતને કારણે એમનીના નાણાંકીય હાલત ઘણી નાજુક થઈ ગઈ છે. આ દરમિયાન મજૂરોના વધતા પગાર વધારાને કારણે કારીગરની અછત જોવા મળી રહી છે. આ ઉદ્યોગ માટે હાલનો સમય ખરેખર ઘણો કપરો સમયમાંથી પસાર થઈ રહ્યો છે. સરકારે ગ્લોબલી વિચારવાની જરૂર છે. તોજ આ ઈન્ડસ્ટ્રીઝ આગળ જતા બચીસકે. ૪૦ (ચાલીસ) માયક્રોન નો કાયદોશુ સમગ્ર વિશ્વના અન્ય દેશોમાં છે તેની ન્યાયીક તપાસ કરાવે તોજ સાચી હકીકત થી સરકાર માહીત ગાર થઈ શકે શે.

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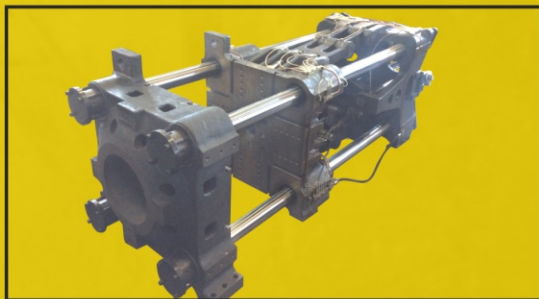
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પ્લાસ્ટીક એજ મિત્ર

પ્લાસ્ટીકની થેલી બ્લોઈંગ પ્રોસેસથી બનાવાય છે. જ્યારે પણ આપણે પ્લાસ્ટીક શબ્દ સાંભળીએ ત્યારે મગજમાં એક જ પ્રશ્ન ઉદ્ભવે કે શું પ્લાસ્ટીકથી પર્યાવરણને નુકશાન થાય છે ? પરંતુ દરેક વસ્તુના બે પાસા હોય છે. (૧) સારા (૨) ખરાબ. જેવી રીતે તમે ખરાબ પાસા એટલે કે પ્લાસ્ટીકથી નુકશાન થાય તે સાંભળો છો પણ એવું વિચાર્યું કે તેનાથી આપણે કેટલો બધો લાભ થાય છે. પ્લાસ્ટીકને શાપરૂપ માનશો નહીં એ તમારો મિત્ર પણ બની શકે છે. દુનિયામાં પ્લાસ્ટીકનો માથાદીઠ વપરાશ સૌથી ઓછો ભારતમાં છે. ભારત સરકાર હવે માથાદીઠ પ્લાસ્ટીકનું વપરાશનું પ્રમાણ વધારવા માંગે છે. હાલમાં પ્લાસ્ટીકનો વપરાશ માથાદીઠ ૧૨ કિલોનો છે. પરંતુ આગળના વર્ષમાં તેનું લક્ષ્યાંક વધારવા માંગે છે. ભારતમાં પેટ્રોકેમિકલ્સ ઈન્ડસ્ટ્રીઝનું ભાવિ ઉજ્જવળ છે અને હજી વિકાસની તકો રહેલી છે. દહેજમાં ભારતમાં સૌથી મોટું પેટ્રોકેમિકલ્સ કોમ્પ્લેક્સ ઉભું કરવાનું કામ અંતિમ તબક્કાઓમાં છે. અમુક જણે તો કે.કે. પોલીબ્લેન્ડ નામનું રી-સાઈકલ થઈ શકે તેવું પ્લાસ્ટીક બનાવ્યું. સંસ્થાનો પારંભ કર્યો જેમાં પ્લાસ્ટીક રી-સાઈકલ થાય. જ્યારે બૃહદ મહાનગરપાલીકાએ આ પ્લાસ્ટીકનો ઉપયોગથી રોડ તૈયાર કર્યો. ઉપયોગ : પ્લાસ્ટીકને રી-સાઈકલ કરીને ફરીથી પ્લાસ્ટીક બનાવતા ૮૦% ટકા જેટલી વીજળી ઓછી વપરાય છે. પ્રોસેસમાં પાણીનો ઉપયોગ બીલકુલ થતો નથી, વારવાર ત્રીસથી વધુવાર રીસાઈકલીંગ કરી ફરી વાપરી શકાય છે. પ્લાસ્ટીક પર પ્રતિબંધ મૂકવો કે ના મૂકવો ? પ્લાસ્ટીક પર પ્રતિબંધ મૂકવો એ જ માત્ર ઉપાય નથી કારણ કે એમ કરવા જતાં પ્લાસ્ટીકને બદલે કાગળો અને કપડા નો વપરાશ વધશે અને તેને પરિણામે વૃક્ષોનો નાશ થશે. વળી, આ પ્રકારના પ્લાસ્ટીકથી નુકશાન થવાની સંભાવના ઓછી છે. તેને રી-સાઈકલ કરીને એ પ્લાસ્ટીકની આવરદા લંભાવી શકાય છે. પ્રતિબંધ મૂકવા કરતાં તેને રિ-સાઈકલ કરીને તેનો ઉપયોગ વધારીને જંગલોનો નાશ અટકાવી શકાય છે. દુનિયા ભરના તમામ પ્રગતિશીલ દેશો એટલેજ પ્લાસ્ટીકનો માથાદીઠ વધુને વધુ વપરાશ કરી પર્યાવરણનું ખરા અર્થમાં જતન કરવું.

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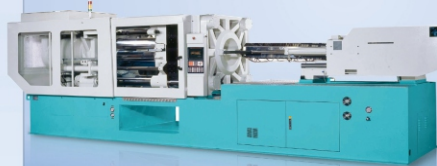
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