

Industry Initiatives towards Food Systems Transformation

*Reducing the
plastic footprint*

**A journey towards
sustainable solutions
in the food industry**



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Executive Summary

EXECUTIVE SUMMARY

With rapid growth and urbanization there is a sharp increase in usage of plastic as a result of which plastic waste management is today emerging as a complex global issue requiring collaborative action. Sustainable management of plastic is crucial to tackle the increasing plastic pollution, ensuring green growth and moving to a circular economy. Towards the same collaborative efforts are needed in product designing, minimizing usage, and promoting recycling.

Within the food systems transformation framework efficient plastic waste management is emerging as the central theme towards meeting the Sustainable Development Goals (SDGs) related to health and sustainability namely, **SDG 3: Good health and well-being; SDG 6: Clean water and sanitation; SDG 11: Sustainable cities and communities; SDG 12: Responsible consumption and production; SDG 13: Climate action; SDG 14: Protection of seas and oceans; as well as SDG 15: Repair ecosystems and retain biodiversity.**

Keeping in view the adverse impacts of littered plastic, The Ministry of Environment, Forest and Climate Change has notified the Plastic Waste Management (Amendment) Rules 2018 under which Extended Producer responsibility (EPR) guidelines have been announced. These guidelines mandate the responsibility of recovering, recycling, reusing, and proper plastic waste disposal to those who produce and release it into the markets.

To streamline the proper and timely collection of waste, recycle, and correct disposal, the Government has approved waste collection agencies, recycling organizations, or recyclers called Producer Responsibility Organizations (PROs).

Further in line with the clarion call given by Prime Minister Shri Narendra Modi to phase out single use plastic by 2022, the Ministry of Environment, Forest and Climate Change, Government of India, has notified the Plastic Waste Management Amendment Rules, 2022, to provide a framework for strengthening the circular economy of plastic packaging waste and promoting alternatives to plastic.

More recently Food Safety and Standards Authority of India (FSSAI) has issued a draft notification that enables the use of rPET for packaging, storing, carrying or dispensing of food products.

The food industry, a major consumer of plastic for packaging and logistics, is also committed to the agenda of efficient plastic waste management and has taken several initiatives on 3R strategy with focus on Reducing, Reusing and Recycling plastic waste. Some of the key initiatives under taken by companies are around the below themes.



ENSURING EXTENDED PRODUCER RESPONSIBILITY (EPR) COMPLIANCE

The food companies based on product portfolio are using various forms of plastic viz multi-layered plastic (MLP), High-density polyethylene (HDPE), Low-density polyethylene (LDPE), Polyethylene terephthalate (PET), Polypropylene (PP), Polyethylene (PE) etc. Since this relates to direct food contact packaging there are several restrictions in place for ensuring safety and quality of food as well.

However, the food companies are ensuring that they meet the EPR obligations and in most cases are ensuring they surpass the target set and emerge as 100% plastic neutral.

Efforts are being made to collect, segregate and process post-consumer plastic waste leveraging the waste management agencies (WMAs) enrolled with the concerned Urban Local Body (ULBs)/ designated state authority.

The WMAs are allocated targets based on the plastic consumption of the concerned food companies and the entire process of undertaking EPR is supported with the required documents right from collection/segregation till processing. The results are audited by external agencies as well to ensure the commitments are met.



REDUCING PLASTIC USAGE

In addition to meeting EPR obligations, food companies are also vigilant and are working towards reducing plastic footprint. Models like branded loose milk offering is helping save huge quantities of plastic that would otherwise be added into the environment every year.

We are also seeing large scale replacement of plastic serving material/straws/spoons with wooden, ecofriendly, bio-degradable alternatives which is a small but effective step in the journey of plastic waste management.

Companies are also looking at alternative measures to reduce plastic usage like reducing thickness of the packaging material used; reducing pack dimensions as well as introduction of large pack SKU's. Companies are also looking at eliminating single use plastic from their packaging portfolio to the extent possible.

Another important solution towards reducing plastic usage is emerging in transportation wherein more and more companies are today looking at reducing plastic wrapping and transportation on a large scale has shifted to cardboard boxes.



ALTERNATIVE PACKAGING MATERIAL

Food companies are also making a lot of investment in research & development towards developing alternative sustainable packaging material and techniques with focus on reducing overall plastic consumption. For example, with focus on recycled plastics, ASSP Plasma coating technology is being leveraged which provides shelf life similar to glass with more than 30% less plastic weight thus helping reduce the plastic footprint.

For non-food & secondary packaging companies are already using recycled plastics. With the recent, initial go-ahead for using rPET for direct food contact packaging more alternative are expected to be available to companies once the regulations are in place.

A key suggestion from food companies towards enhancing the opportunities for reducing plastic usage in packaging is to provide similar enablement for using food grade recycled HDPE /PP resin for food contact packaging applications.



FOCUS ON CONSUMER AWARENESS

Apart from company specific efforts to reduce, reuse and recycle plastic a lot of effort by companies is also being made to create consumer awareness towards reducing the usage of plastic and enhancing its recycling. Several community awareness programs, plastic collection drives, arrangements for collection of used product packaging material from consumers to ensure proper disposal are being organized in partnership with multilateral bodies, NGOs etc.

Focus is also on creating mass awareness on importance of source segregation of the domestic waste so that the plastic content of this waste can get channelized to the stream of plastic recycling or processing without requiring intensive and cost incurring segregation at the collection centers as well as subsequent cleaning before its recycling.

Companies are also focusing on livelihood as well as health and wellbeing of Ragpickers and waste collectors as they are critical stakeholders in management of the post-consumer plastic waste.

These collective efforts are helping India in its journey on plastic waste management.

This compendium covers plastic waste management journey of companies who are consistently meeting the EPR obligation with many of them also surpassing the obligation to become 100% plastic neutral. The profiles provide insight on the EPR journey, initiatives taken towards reducing plastic usage, some policy enablers as well as the long-term vision towards efficient plastic waste management. The compendium highlights industry commitment towards sustainability and will also serve as a reference document for others as they embark on their EPR journey.

Company Profiles



Abbott



COMPANY BACKGROUND

Created in 1903, Abbott's nutrition business is a division of Abbott, the global healthcare company.

As a leader in nutrition science, research and development, our goal is to deliver nutrition products and education that meet the changing needs of families across the world. Abbott make products to help babies and children grow, that work to keep bodies strong, and that support the unique nutritional and therapeutic needs of adults.

The company's goal is to deliver nutrition products and education that meet the changing needs of families across the world.



MANAGING PLASTIC WASTE

The company is committed to plastic waste management and recycles 100% of the plastic that it generated through their products. Abbott uses multilayer flexible packaging (Foil based Laminate, PVC / PET films and LDPE films), Rigid plastics majorly PP Jars, lids and scoop for Packaging and serving purposes.

For the company, the first step towards becoming Plastic Neutral was to calculate the total plastic packaging consumed. For that, Abbott collected data of the plastic packaging procured by their units as well as the plastic packaging procured by the third-party units manufacturing products on their behalf. Data was also collected on the plastic waste getting generated inside the unit.

Based on the data, the total plastic packaging consumption was calculated. Thereafter, Abbott appointed waste management agencies (WMAs) to collect back 100% of the quantity of the plastic packaging consumed in order to achieve plastic neutrality.

The WMAs work with ULBs, waste aggregators, waste pickers etc. They also have their own collection centers/MRFs. The plastic waste is segregated into different types and then sent for sustainable disposal to different authorized recyclers or for co-processing.

In addition, Abbott is the founding members for WeCare Consortium which is an Industry Body focusing on Waste Management/Waste Disposal and Recycling Efforts.



**COMMITTED TO PLASTIC WASTE MANAGEMENT
AND RECYCLES 100% OF THE PLASTIC**



REDUCING PLASTIC USAGE

- Towards reducing the usage of virgin plastic, the company has managed to **reduce the weight of jars by 18%** through identifying and completing value engineering projects.
- Further, Abbott's supply chain and commercial teams have worked together towards a pack format that **increases mono-carton pack** share considerably.
- In additional, the company is also currently undertaking several initiatives which are expected to **reduce the virgin plastic use further by 15 %**.
- The company is also working towards the development of the **Recyclable laminates** for their Primary packaging purposes.

FUTURE PLANS

Safeguarding the environment is one of the company's sustainability goals. Sustainable packaging and minimizing the impact of packaging on the environment fall into that realm.

Abbott's 2030 Sustainability Plan is focused on designing access and affordability into life-changing technologies and products. The company is working across their Operations & with Key suppliers to sustainably manage their water use and address the climate change by reducing carbon emissions and expanding renewable energy.



EXPECTED TO REDUCE THE VIRGIN PLASTIC USE FURTHER BY 15 %.

The Amway logo is centered within a white circle. The word "Amway" is written in a bold, dark blue, sans-serif font. A thin, red, curved line underlines the text, starting from the left and ending to the right of the word. The white circle is set against a dark teal background. Two gold-colored, angular shapes are positioned on the right and bottom-left sides of the circle, partially overlapping it.

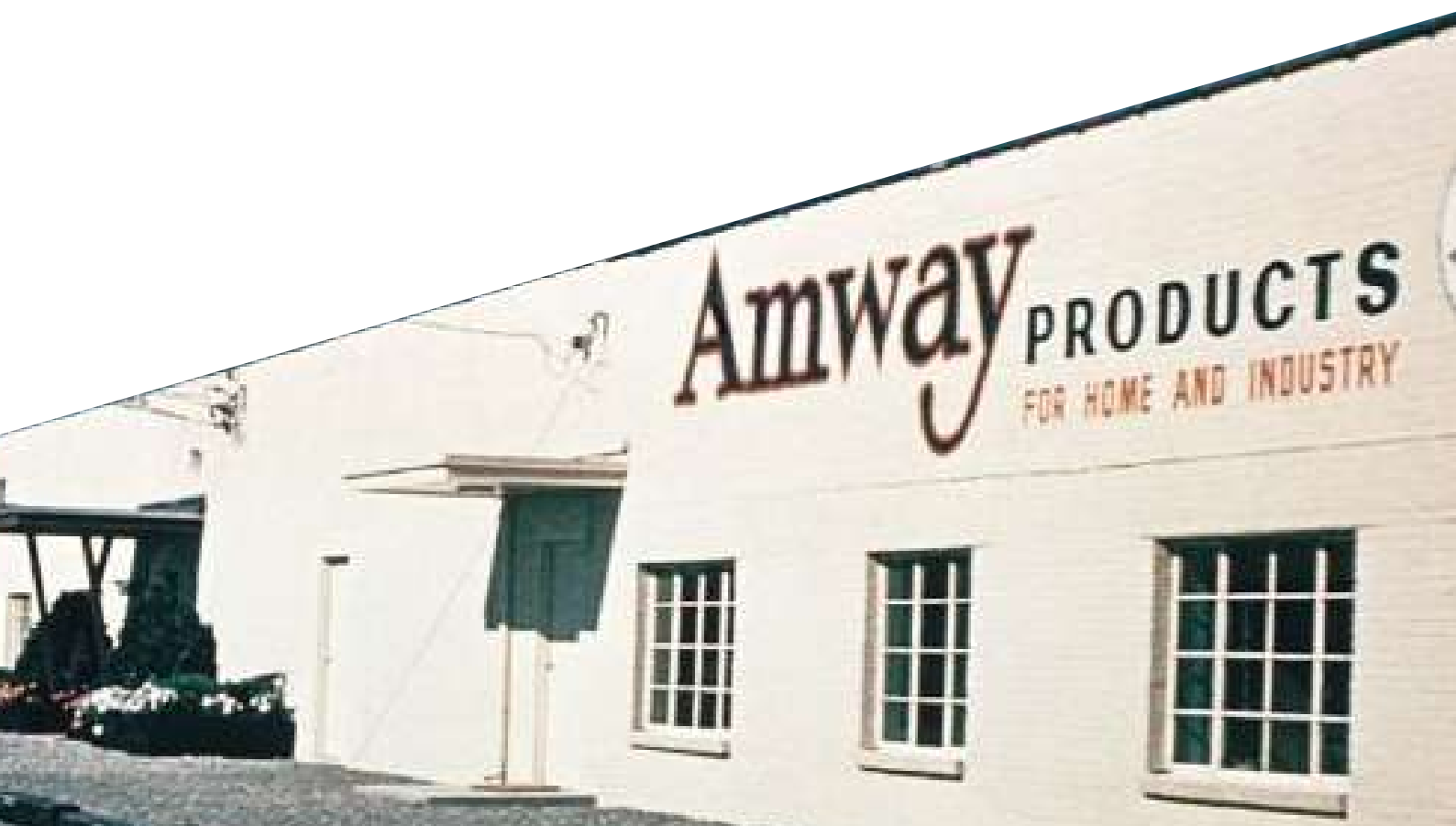
Amway



COMPANY BACKGROUND

Amway India Enterprises Private Limited is a FMCG Company, with a presence across 100 countries.

The company's FMCG portfolio today includes five flagship brands with distinct brand identities, including Nutrilite as the master brand for natural healthcare products, Artistry, Attitude and Glister for personal care, and Amway Home for home care products.



MANAGING PLASTIC WASTE

Amway is committed in its journey towards sustainability. The company became 100% plastic waste neutral in 2020-21, which means that the company collects, processes and recycles the same amount of plastic waste that it generates in a year. In 2021-22, the company recycled around 800 MT of post-consumer plastic waste from all over India. This included all types of plastic waste, from PET and HDPE bottles, PP caps and labels to multi-layered plastics and beverage cartons.

The company has been working towards plastics neutrality under its Extended Producer Responsibility (EPR) model, since 2016.

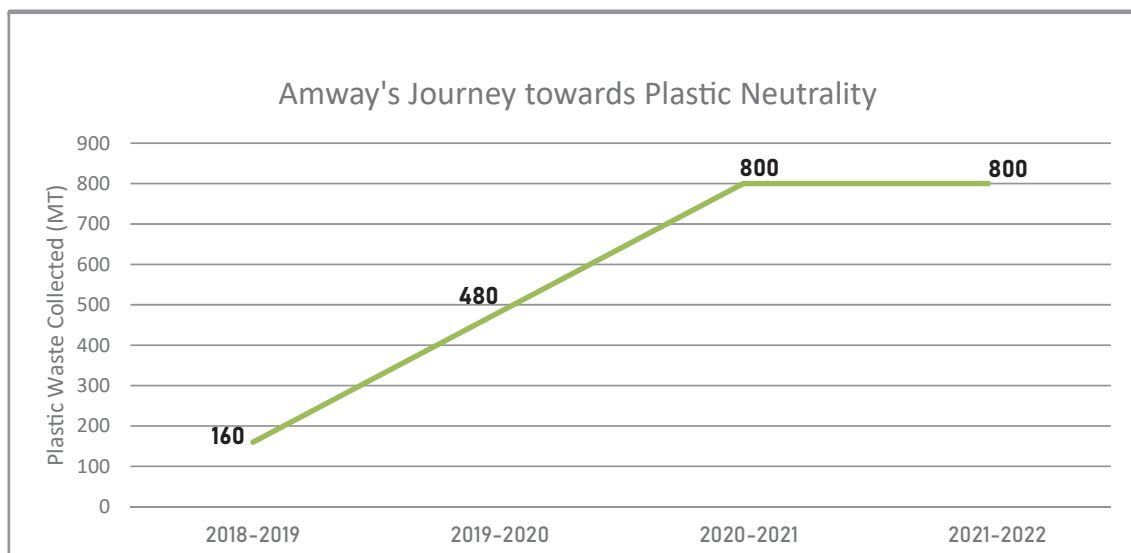
Towards recycling initiatives, the company worked with Indian Pollution Control Association (IPCA), a waste management agency (WMA), for assessing the quality and quantity of plastic waste generated. This way, an entire inventory of plastic packaging was developed, plastic consumption for wrapping of each product was considered, and the quantum of each category of plastic put in the market was identified.

Thereafter, the company undertook a collaborative model by engaging with Urban Local Bodies through Waste Management Agencies, towards EPR.

Since 2017-18, Amway has till date collected a total of over 2211.13 MT of plastic waste (Recyclable and Non-Recyclable) direct from the end-users across 32 states and Union territories in India.



SINCE 2017-18 COLLECTED OVER 2211.13 MT OF PLASTIC WASTE (RECYCLABLE AND NON-RECYCLABLE) DIRECT FROM THE END-USERS ACROSS 32 STATES AND UNION TERRITORIES IN INDIA.



The company is working with one WMA to implement EPR across 32 states, with direct engagement with more than 100 urban local bodies (ULBs); 10,000 waste workers for collection of rigid, flexible and MLP plastic waste; and registered recyclers and co-processing facilities for sustainable disposal. The collected plastic waste is sent to different Recyclers, Waste-to-Energy Plants and Cement Kilns.

In order to achieve traceability, IPCA has also put in place a robust audit mechanism to ensure complete transparency and compliance to the state and central regulations and guidelines on Plastic Waste Management.

REDUCING PLASTIC USAGE

Towards reducing the usage of plastics, the company has been focusing on sustainable packaging materials and techniques and is continuously conducting trials for using recycled or biodegradable plastic for its products.

Amway has been undertaking several pilots in this regard leveraging value engineering in structure for packaging.

Amway remains committed to reducing plastics across its foods portfolio and towards the same, harmonisation of BIS standards on RPET plastic in line with MoEF notification and FSSAI packaging standards, would be a great enabler.

RAISING CONSUMING AWARENESS

Realising the significance of the role of consumers in the journey towards sustainability, Amway works towards raising awareness about plastic waste management within the communities.

Amway was one of the Campaign supporters for “Curtain raiser ceremony” organized by Ghaziabad Nagar Nigam in association with IPCA for recycling and reduction of plastic waste in Ghaziabad.

Amway also participated in Green Cochin Mission as part of its Awareness campaign.



FUTURE PLANS

Sustainability being a core philosophy, Amway remains committed to reducing the company's impact on the environment through responsible environmental management, conservation, and protection across all of aspects of operations.



BECAME 100% PLASTIC WASTE NEUTRAL IN 2020-21, WHICH MEANS THAT THE COMPANY COLLECTS, PROCESSES AND RECYCLES THE SAME AMOUNT OF PLASTIC WASTE THAT IT GENERATES IN A YEAR.





COMPANY BACKGROUND

Coca-Cola India Private Ltd (CC IPL) has grown to become one of the leading beverage companies in the country.

CC IPL manufactures and sells concentrates, beverage bases, and powdered beverage mixes, that go into several beverages across multiple plants in India.

The company is connected to consumers through 2.6 million retail outlets at the rate of 500 servings per second even to the remotest locations in India. CC IPL has a network of 54 plants, 150+ warehouses, 240+ suppliers, and over 5,000 distributors.



MANAGING PLASTIC WASTE

CCIPL is committed towards sustainability and is compliant as per latest Plastic Waste Management (PWM) Rules, 2016 and is meeting EPR obligation for year 2021-22.

With various collection initiatives planned including reverse logistics, partnerships with Waste Management Agencies, Reverse Vending Machines and setting up of own collection infrastructure the company is on track to meet the targets for coming years as per requirements in PWM rules.

One such initiative is CCIPL's "World Without Waste", where materials are reused and recycled as part of a circular economy, lowers carbon emissions and climate impacts, which is why the companies packaging and climate strategies are intertwined. Because packaging accounts for up to 30% of CCIPL's overall carbon footprint, the "World Without Waste" efforts are essential to meeting the vision to be net zero carbon. Built on the framework of Design, Collect, Partner, CCIPL targets to use at least 50% recycled material across primary packaging and collect/recycle a package for every bottle that is sold by 2030.

In terms of an enabler to help more and more companies meet the EPR norms, Govt, may consider accelerating the process of amending the BIS standards. While Ministry of environment, Forests and Climate Change as well as Food Safety Standards Authority of India have already amended their regulations which were prohibiting the use of recycled plastics in Food Packaging, thus enabling the use of recycled PET, two of the standards from Bureau of Indian Standards still prohibit the use of PET in Food Packaging, which needs to be amended on priority to enable Industry meet the requirement of EPR regulations of mandatory use of recycled plastics in packaging.

Further to maintain plastic circularity within country Govt may consider ways to maximize local usage of recycled plastics versus export.



REDUCING PLASTIC USAGE

CCIPL has attained virgin plastic reduction due to innovations and light weighting. For the year 2021 the company reduced approx. 10 K MT+ plastic usage as against 2015 baseline weights.

This has been attained leveraging alternative packaging materials viz wood, biodegradable plastics, etc. Also building consumer awareness around the need for reducing plastic usage has contributed to the reduction. Last but not the least focus on recycled plastics and innovation has played a major role in helping attain the goal of reducing plastic usage.

For example, ASSP Plasma coating technology used for small PET packs (250 ml) is an advanced plasma coating technology which provides shelf life similar to glass with more than 30% less plastic weight in small bottles (250 ml). Similarly, there are various innovations for right weighting



CCIPL HAS ATTAINED VIRGIN PLASTIC REDUCTION DUE TO INNOVATIONS AND LIGHT WEIGHTING. FOR THE YEAR 2021 THE COMPANY REDUCED APPROX. 10 K MT+ PLASTIC USAGE AS AGAINST 2015 BASELINE WEIGHTS.

RAISING CONSUMING AWARENESS

Realising the significance of the role of consumers in the journey towards sustainability, CCIPL works towards raising awareness about plastic waste management within the communities.

A key initiative of CCIPL is "Project Prithvi" a Plastic Circular Economy Program to develop sustainable community-led efforts for integrated plastic waste management. The project has successfully redirected 1,46, 346 MT of plastic waste from landfills over the past five years; notched up savings 5,78,067 MT tons of CO2 emissions; recovered 62,825 MT of post-consumer packaging; and improved standards of living of women waste recyclers. The project also has women empowerment at its core.

CCIPL is working on similar projects with partners across the country to generate awareness and promote circular economy initiatives. For example, the My School Mission Recycling initiative has reached out to over 1000 schools spread across 17 states and UTs, connected with 1.8 million students and 500,000 teachers to spread awareness towards recycling and reusing PET containers and plastic waste.

FUTURE PLANS

As part of its World Without Waste initiative, the Coca-Cola Company is committed to making 100% of its packaging recyclable globally by 2025 and using at least 50% of recycled material in its packaging by 2030. Further the aim is to collect/recycle a package for every bottle that is sold by 2030.

Aimed at bringing organizations and people together to support a debris-free environment. The initiative lays emphasis on entire packaging lifecycle—from how bottles and cans are designed and produced to how they're recycled and repurposed — through focus on three fundamental goals: design, collect, and partner.



100% Recyclable

**Affordable Small
Sparkling Package (ASSP)
World's lightest-weight
best-performing bottle**



**CCIPL TARGETS TO USE AT LEAST 50% RECYCLED MATERIAL
ACROSS PRIMARY PACKAGING AND COLLECT/RECYCLE
A PACKAGE FOR EVERY BOTTLE THAT IS SOLD BY 2030.**





COMPANY BACKGROUND

Dabur India Limited a FMCG Company, with a presence across 100 countries.

The company's FMCG portfolio today includes five flagship brands with distinct brand identities -- Dabur as the master brand for natural healthcare products, Vatika for premium personal care, Hajmola for digestives, Réal for fruit juices and beverages and Fem for skin care products.



MANAGING PLASTIC WASTE

Dabur is committed in its journey towards sustainability. In 2021-22, Dabur became the first Indian consumer goods company to reach a 100% 'Plastic Waste Neutral company' status, which means that the company collects, processes and recycles the same amount of plastic waste that Dabur sells in its product packaging in a year.

In 2021-22, the company collected, processed and recycled around 27,000 MT of post-consumer plastic waste from all over India. This included all types of plastic waste, from PET and HDPE bottles, PP caps and labels to multi-layered plastics and beverage cartons.

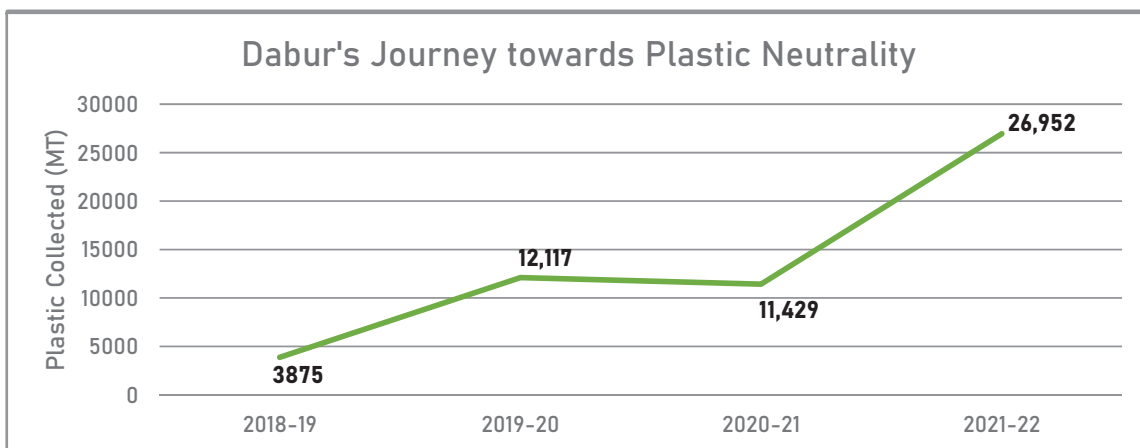
Dabur worked towards plastics neutrality under its Extended Producer Responsibility (EPR) model, since 2016. The company worked with Nepra Environmental Services Limited, a waste management company, for assessing the quality and quantity of plastic waste generated. This way, an entire inventory of plastic packaging was developed, plastic consumption for wrapping of each product was considered, and the quantum of each category of plastic put in the market was identified.

Thereafter, the company undertook a collaborative model by engaging with Urban Local Bodies through Waste Management Agencies, towards EPR.

Dabur's Plastic Waste Management initiative was rolled out in the year 2017-18 as part of the Plastic Waste Management (PWM) Rule 2016, 2018 (amended). Under this initiative, Dabur has till date collected a total of over 54,000 MT of plastic waste (Recyclable and Non-Recyclable) direct from the end-users with the help of around 2500+ local ragpickers across 150 cities in India.



IN 2021-22, THE COMPANY COLLECTED, PROCESSED AND RECYCLED AROUND 27,000 MT OF POST-CONSUMER PLASTIC WASTE FROM ALL OVER INDIA.



The company is working with 12 WMAs to implement EPR across 36 states, with direct engagement with 80+ ULBs; 3000+ ragpickers for collection of rigid, flexible and MLP plastic waste; 35+ registered recyclers and 15+ co-processing facilities for sustainable disposal. The collected plastic waste is sent to different Recyclers, Waste-to-Energy Plants and Cement Kilns.

In order to achieve traceability, Dabur has also put in place a robust audit mechanism to ensure complete transparency and compliance to the state and central regulations and guidelines on Plastic Waste Management. Dabur works with Binder Dijker Otte (BDO), a global audit agency, to review the documents submitted by various WMAs against a standard audit checklist. Additionally, on-site audits are also undertaken to examine the collection and disposal processes.

The environmental impact of these efforts has been significant, with Dabur having avoided 6871.39 MT of CO₂ emissions through recycling; saving 784 MT of CO₂ emissions through co-processing and waste-to-energy disposals; and avoiding 10356 MT of CO₂ emissions through beverage carton recycling. Overall, a total of 18011.39 MT of CO₂ emissions were avoided.

The efforts of the company have also translated into significant social benefits. Through EPR, Dabur has created more than 1000 new green by engagement of Waste management agencies, Cement plants, Recycling facilities, NGO, Rag pickers association, RWA Societies Inclusion and upliftment of marginalized community of waste pickers, providing them with fixed income.



DABUR BECAME THE FIRST INDIAN CONSUMER GOODS COMPANY TO REACH A 100% 'PLASTIC WASTE NEUTRAL COMPANY STATUS



DABUR AVOIDED 6871.39 MT OF CO₂ EMISSIONS THROUGH RECYCLING

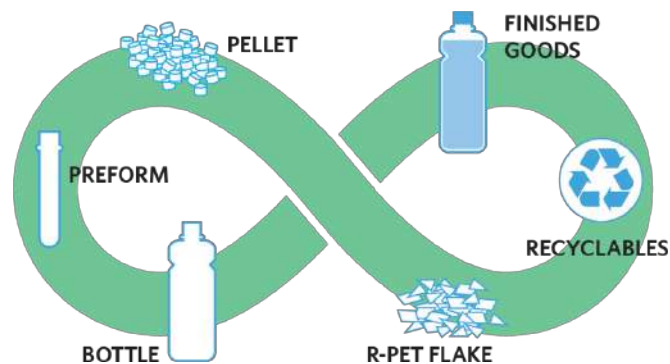
REDUCING PLASTIC USAGE

Towards reducing the usage of plastics, the company has been focussing on sustainable packaging materials and techniques. Dabur has been undertaking several pilots in this regard leveraging value engineering in structure for packaging.

One of the key products where packaging has been innovated is Hajmola Anardana, where Dabur implemented recycled jars using 30% RPET. Further, packaging for Hajmola sachets have also been changed towards annualised plastic reduction of 200 MT.

Dabur remains committed to reducing plastics across its foods portfolio and towards the same, harmonisation of BIS standards on RPET plastic in line with MoEF notification and FSSAI packaging standards, would be a great enabler.

Dabur's First & Responsible Step Towards Environment Sustainability



Implemented Recycled Jars using 30% RPET in Hajmola Anardana variant.

RAISING CONSUMING AWARENESS

Realising the significance of the role of consumers in the journey towards sustainability, Dabur works towards raising awareness about plastic waste management within the communities.

Moving forward on its mission to protect the environment and roll out special initiatives for ecologically sensitive areas, Dabur announced the launch of a new 'Save the Environment' campaign in Himachal Pradesh to create awareness within communities on managing plastic waste within their household. The Company will be distributing Cotton Carry Bags to replace the Plastic Bags that are currently being used in households

As part of this commitment, Dabur has also been working with school children across small town and villages, educating them about various types of waste and the benefits of segregating them at source.

To increase the involvement of Dabur employees, their families and the larger community in our plastic waste management initiatives, Dabur rolled a unique incentive scheme christened My 10 Kg Plastic. According to Central Pollution Control Board (CPCB), the Per Capita plastic waste generation in India today stands at around 10 Kg, which means every individual generates around 10 Kg of plastic waste every year. Through this programme, Dabur invited individual households to collect and send 10 Kg of plastic waste generated in their homes and become Plastic Waste Neutral Citizens.

A special Mobile App and a microsite was created for employees and their families and a mobile number activated for communities, where they could place requests for plastic waste collection at their doorstep. A special waste collection vehicle then reached their homes at a scheduled time to weigh and collect the plastic waste. The depositor won reward points for every Kg of plastic waste submitted and could accumulate these points and redeem them at the microsite for a variety of gifts and products. In 2020-21, Dabur collected 12,946 Kgs of plastic waste under the My 10 Kg Plastic programme.



MY 10 KG - IN 2020-21, DABUR COLLECTED 12,946 KGS OF PLASTIC WASTE UNDER THE MY 10 KG PLASTIC PROGRAMME.

FUTURE PLANS

Sustainability being a core philosophy, Dabur remains committed to reducing the company's impact on the environment through responsible environmental management, conservation and protection across all of aspects of operations.





COMPANY BACKGROUND

DFM Foods is a leading player in the business of manufacturing packaged snacks.

DFM Foods has a strong brand connect with brands such as CRAX and NATKHAT in its portfolio. Starting with CRAX Corn Rings, the company has expanded its product portfolio to more than 15 products in the snack segment. Further, in the “namkeen” segment, DFM Foods offer a range of 12 distinct product variants.

All products are manufactured in modern, hygienic, and automated processing facilities in Ghaziabad, Greater Noida, and Kashipur (Uttarakhand).



MANAGING PLASTIC WASTE

Reinforcing its commitment to sustainability, over the last 3 years DFM Foods has attained the status of being a 100% 'Plastic Waste Neutral company' and has done 100% EPR for FY 19-20, FY 20-21, and FY 21-22).

DFM Foods only uses Multi-Layer Plastic (MLP) for packaging purposes, while and all transportation is undertaken in cartons or other sustainable materials. The quantity of the plastic used by the company for packing purposes is around 3500 to 4500 MT per year. This means that over the last 3 years the company has consistently collected, processed, and recycled 3500 to 4500 MT of plastic waste.



A unique feature for DFM Foods is that is EPR compliant across all states/UTs where it has a market share and plastic waste recycled is equivalent to the waste generated through the packaging material of its product in that state/UT.

The waste collection is done from market through waste management agencies, registered Producer Responsibility Organisation (PROs) under Central Pollution Control Board (CPCB) and is properly disposed as per the CPCB guidelines, Plastic Management Rules 2016.



REDUCING PLASTIC USAGE

DFM Foods remains committed to reducing plastic usage across its product portfolio.

Towards reducing the usage of plastics, the company has been focussing on sustainable packaging materials and techniques. Several initiatives have been undertaken viz, reducing thickness of the packaging material; reducing pack dimensions as well as introduction of large pack SKU's. These initiatives have resulted in overall reduction of plastic consumption per kg of the product.

Also, towards reducing plastic usage, the company avoids all kinds of plastic wrapping and all transportation is done in cardboard boxes. Further, the companies R&D team is engaged in development of alternative packaging material with focus on reducing overall plastic consumption.

From an overarching perspective towards reducing virgin plastic consumption there is a need to invest in technology and R&D so that recycled plastic can be used for food packaging. As per DFM the food business operators should be encouraged for using recycled plastics through various incentives, schemes etc. including lowering GST for use of recycled plastic.



**PLASTIC
THICKNESS
REDUCTION**



**PLASTIC
PACK SIZE
REDUCTION**



RAISING CONSUMING AWARENESS

DFM Foods believes in creating social value through continual engagement with society for sustainable development and environment protection. Reducing plastic consumption and raising awareness about plastic recycling is critical if we are to overcome the problem of plastic waste and pollution on our Earth.

DFM Foods continuously drives plastic waste awareness among school, college students and citizens in collaboration with our waste management agency at various places in India



FUTURE PLANS

DFM Foods supports the nation's ambition of being carbon neutral by 2070. The company intends to undertake CSR projects for improving the socio-economy of rag pickers, aggregators and support the circular economy of plastic waste management.



HERBALLIFE
NUTRITION



COMPANY BACKGROUND

Herbalife Nutrition is a global company that has been changing people's lives with nutrition products and a business opportunity for its independent distributors since 1980.

The Company offers science-backed products to consumers in 95 markets through entrepreneurial distributors who provide one-on-one coaching and a supportive community that inspires their customers to embrace a healthier, more active lifestyle.

Through the Company's commitment to nourish people, communities and the planet, Herbalife Nutrition pledges to achieve 50 million positive impacts – tangible acts of good – by 2030, its 50th anniversary.



MANAGING PLASTIC WASTE

Herbalife is working towards ensuring it is plastic neutral and EPR compliant and has engaged with waste management agency to ensure that equivalent amount of plastic waste as per the projected sales are collected and recycled.

The company is using approximately 2700 Mt of High-density polyethylene (HDPE) & Polypropylene plastic (PP) for packaging & serving of its product offering.



**TOWARDS MAINTAINING PLASTIC NEUTRALITY,
IN THE YEAR 2021 HERBALIFE RECYCLED 2600 MT OF PLASTIC.**

As FSSAI has recently enabled the usage of rPET for food contact packaging, similar enablement for using food grade recycled HDPE /PP resin for food contact packaging applications would further enhance the opportunities for reducing plastic usage.

REDUCING PLASTIC USAGE

While the packaging material in direct contact with the consumable has to be high grade plastic, Herbalife has been making efforts towards reducing plastic usage. The company has replaced PE coated paper with PLA paper cups which is bio compostable and is also using bio compostable courier pouch replacing plastic pouches. Also, the company has introduced many articles of promotions made out of sustainable materials.



RAISING CONSUMING AWARENESS

As an effort towards reducing plastic waste at consumer end, the company is arranging for collection of used product canisters to ensure proper disposal. This primarily helps address the disposal of plastic packaging material which is often improperly disposed due to lack of awareness.

FUTURE PLANS

Herbalife is keen to explore new waste reduction opportunities in product packaging and the regulation on use food grade HDPE/PP resin will be a key enabler towards the same.



ITC Limited



COMPANY BACKGROUND

ITC is one of India's foremost private sector companies with a diversified presence in FMCG, Hotels, Packaging, Paperboards & Specialty Papers and Agri-Business.

ITC's vibrant portfolio of over 25 world-class Indian brands, largely built through an organic growth strategy.

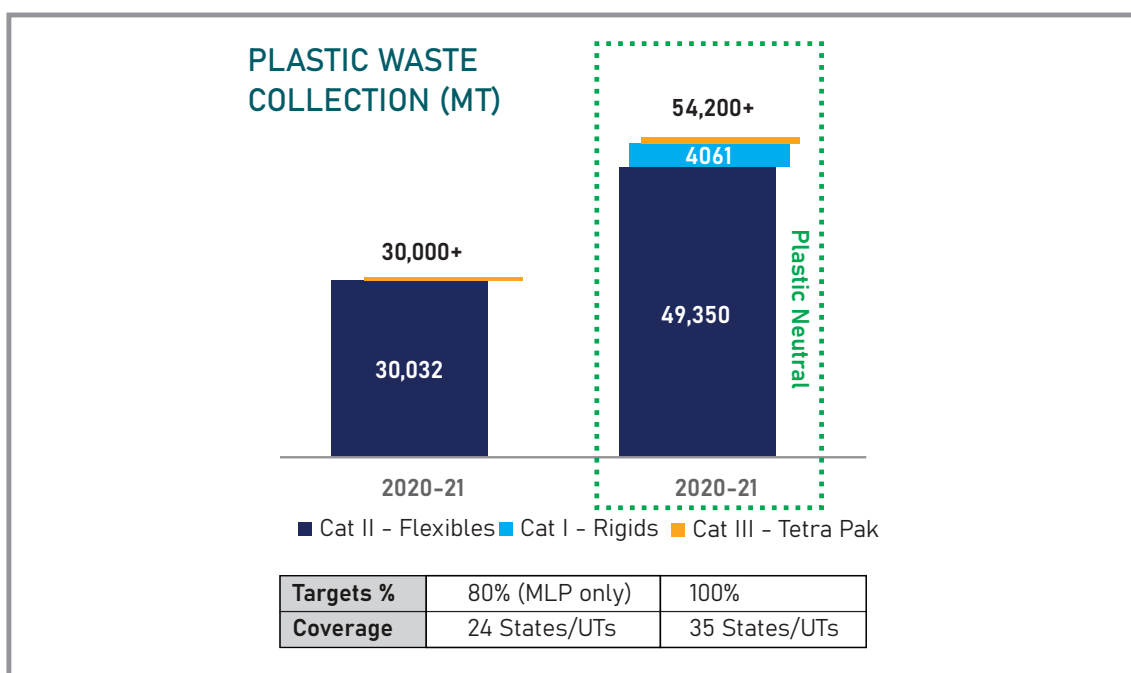


MANAGING PLASTIC WASTE

ITC has achieved Plastic Neutrality in FY 2021-22 by implementing an integrated solid waste management programme that incorporates unique and multidimensional initiatives.

ITC's annual packaging footprint, from its FMCG businesses, across primary, secondary and tertiary packaging formats is around 180,000 MT and is primarily composed of paper/paperboard-based packaging (77%), followed by plastic packaging (22%). Glass and metal form a small portion of the overall packaging footprint, contributing to less than 1%. For plastic packaging used by ITC, around 85% is in the form of multi layered/thin film plastic packaging and the rest is composed of PET and other rigid plastics.

In 2021-22, ITC collected and sustainably managed more than 54,000 tonnes of plastic waste across 35 states and union territories. The amount of plastic waste managed exceeded the amount of plastic packaging utilised by ITC during the year, enabling the Company to achieve the milestone of Plastic Neutrality.



IN 2021-22, ITC COLLECTED AND SUSTAINABLY MANAGED MORE THAN 54,000 TONNES OF PLASTIC WASTE ACROSS 35 STATES AND UNION TERRITORIES.

ITC has been running a holistic 360-degree solid waste management programme that is based on the principles of a circular economy and encompasses the entire waste value chain for more than a decade now.

A Clean, certified and graded recycled plastic supply chain is critical for user industries to increased usage of recycled plastics in food contact packaging. Base polymer producing companies will have significant role to play here with their domain technical knowledge and capability. Some policy initiative will help in this direction and polymer producing industries will also be an important enabler to this cause.

REDUCING PLASTIC USAGE

ITC has adopted a multi-pronged approach to reduce plastic in the Company's operations. This includes creating robust next generation environment friendly packaging solutions, mega-scale waste collection programmes under its flagship waste management initiative 'ITC WOW – Well Being Out of Waste' as well as focussed interventions in rural areas; and innovative models for sustainability which have plastic reduction and management at their core. Within its operations, ITC has been recycling more than 99% of the solid waste for more than a decade.

For non-food & secondary packaging ITC is already using recycled plastics and will comply with the recycled plastic mandate given in the Plastic Waste Management Rules (PWMR). The majority of virgin plastic usage is in food products and primary packaging with direct food contact. Recently, an initial go-ahead has been given for PET subjected to the suitable standards that will come in the future. ITC has initiated projects for using recycled PET in direct contact food packaging. The supply chain for clean recycled PET is getting developed.

Paper-based packaging for some of ITC's products is also under trial and expected to be commercialized shortly.



RAISING CONSUMING AWARENESS

In India, the collection and recycling for multi-layered laminates/ plastic packaging have always been challenging. In line with the strategies outlined earlier, ITC is actively working on behavioural change programmes to ensure source segregation and implementing replicable, scalable and sustainable models of solid waste management. This ensures higher collection and recycling of solid wastes including multi-layered laminates/plastic packaging.



**ITC'S PROGRAMMES HAVE REACHED OUT TO MORE THAN
MILLION HOUSEHOLDS TILL DATE**

Additionally, ITC also leverages its brands to raise consumers awareness on responsible waste management.

ITC's LSTC, with its research capability in material sciences and recycling, has been working with multiple recycling partners to provide knowledge and technical support to recycle MLP packaging and enable multiple end uses. These include conversion into granules through extrusion and using compression moulding techniques for developing other articles of utility like recycled plastic lumber for boards, benches etc., plastic rods, stationery items among others.

FUTURE PLANS

ITC will continue on its journey of sustainable packaging under its multi-pronged approach to reduce plastic in the Company's operations.





JUBILANT
FoodWorks



COMPANY BACKGROUND

Jubilant FoodWorks Limited (JFL) is part of the Jubilant Bhartia Group and is India's largest food service Company. The company holds the master franchise rights for three international brands, Domino's Pizza, Dunkin' Donuts and Popeyes, addressing three different food market segments.

At present, the company functions with a capacity of more than 1,500 outlets for Domino's Pizza, Dunkin' Donuts and Hong's Kitchen and is a market leader in QSR segment.

With more than 30,000 brand ambassadors, the company is actively engaged in delivering high quality food products to its consumers.



MANAGING PLASTIC WASTE

Jubilant FoodWorks Ltd. gets the waste collected, processed and recycled the same amount of plastic waste that it generates each year post consumer usage. Each year 18-20 MT of virgin plastic is recycled by the company with the services of The Shakti Plastic Industries, a CPCB approved Urban Local Body.

Further, the company ensures that all its suppliers are also taking equal responsibility to ensure that they also recycle the same amount of plastic that they're supplying to JFL.

So far, the company recycled the entire amount of plastic waste it generated PAN-India, in the state of Maharashtra. However, from 2022-23 onwards, the company will undertake city-level recycling across 8 cities - Greater Noida, Bangalore, Hyderabad, Mumbai, Mohali, Guwahati, Kolkata and Nagpur-based on the waste generated in each city. Currently, organisation holds its supply chain centres in these cities.



EACH YEAR 18-20 MT OF VIRGIN PLASTIC IS RECYCLED BY THE COMPANY



REDUCING PLASTIC USAGE

Towards reducing the usage of plastics, the company has been focussing on sustainable serving materials. The company has completely replaced all single use plastics by leveraging alternative materials leading to an annual reduction of 31 MT of virgin plastic annually.

All plastic cutleries have been replaced with wooden alternatives. Meanwhile plastics used for pizza stools, dip bowls, beverage lids, etc. have been replaced with poly lactic acid (PLA) which have the same characteristics of plastic in terms of durability and strength while being sustainable.

The company has also replaced all carry bags with paper bags.

The company is currently focused on replacing plastic in integrated packing materials and are undertaking focused R&D towards finding appropriate alternates.



FUTURE PLANS

Going forward, the company will continue its efforts towards reducing plastic usage. While the company has already completely eliminated all single use plastic, they are committed to reduce usage of plastic for secondary packaging needs.





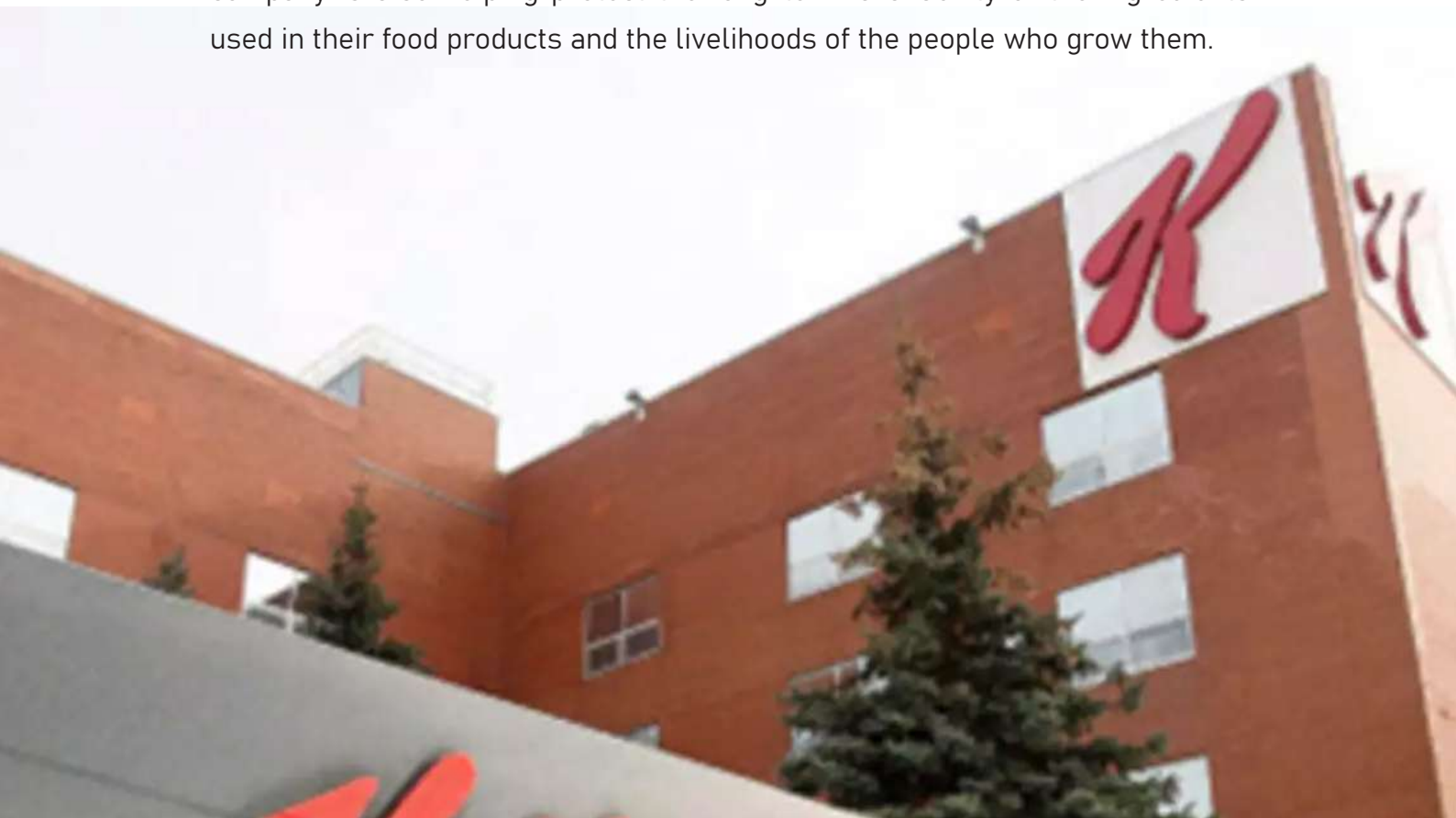
Kellogg's



COMPANY BACKGROUND

Kellogg's is a leading global food company, seeking to drive transformational change in addressing the worldwide issue of food security through integrated commitments to nutrition, hunger relief and sustainability.

Kellogg's is working on multiple fronts to further reduce greenhouse gas (GHG) emissions and waste, as well as the energy and water use. In doing so, the company is also helping protect the long-term availability of the ingredients used in their food products and the livelihoods of the people who grow them.



MANAGING PLASTIC WASTE

Kellogg India is 100% EPR compliant. In 2018, Kellogg India initiated a pilot in the state of Maharashtra where 75 MT of Multi-Layer plastic waste was collected and was repurposed for fuel for the local cement kilns rather going to the landfill, where often it is burned, resulting in the emissions of harmful GHG into the atmosphere. Between 2019 to 2021 the initiative was scaled to 18 states collecting 3380 MT through reputed waste management agencies.

The initiative promotes a circular economy model and encourages adoption of eco-friendly methods to manage the waste as well as meet sustainability goals.



76% OF THE COMPANY'S PACKAGING IS RECYCLABLE GLOBALLY.

REDUCING PLASTIC USAGE

Kellogg's is also committed to using resource-efficient packaging and has one of the smallest plastic packaging footprints among peer food companies and 76% of the company's packaging is recyclable globally.

Most of the other packaging uses either recycled-content paperboard cartons or corrugate cardboard. Kellogg also uses composite cans, and flexible plastic packaging.

The company is also aggressively driving cutting-edge innovation, looking at how packaging can protect and enhance foods while having an even smaller environmental impact.



FUTURE PLANS

Kellogg sets a sustainable packaging goal to work toward 100 percent reusable, recyclable or compostable packaging by the end of 2025.

The company is committed to following circular economy principles and excluding, reducing, and replacing plastic. Kellogg is also aggressively collaborating with partners to drive cutting-edge innovation that will impact how packaging protects and enhances our foods with an even smaller environmental impact.





COMPANY BACKGROUND

Marico Limited is one of India's leading consumer goods companies. With a primary presence in India, Marico have operational footprint in 6 other countries- Bangladesh, Vietnam, Myanmar, South Africa, Egypt, Middle East that caters to consumers in more than 40 countries. In India Marico has 6 manufacturing units- Perundurai, Puducherry, Jalgaon, Sanand, Northeast region 1 and 2 and 25 depots.

Marico portfolio of brands include Parachute, Saffola, Saffola FITTIFY Gourmet, Saffola ImmuniVeda, Saffola Arogyam, Saffola Mealmaker, amongst others.

Circular economy is an integral part of Marico's material sustainability goals by virtue of which the company adopts principles of recyclability, biodegradability, dematerialization, use of recycled content and design innovation into its packaging configuration.



MANAGING PLASTIC WASTE

In alignment with Extended Producers Responsibility (EPR) under Plastic Waste Management (PWM) Rules, 2016 and its subsequent amendment, Marico carries out extensive activity of collecting and co processing post-consumer non-recyclable multi-layered plastic (MLP) waste. The company also carries out similar activities for recycling post-consumer rigid and flexible plastic (HDPE, LDPE, PET, PP, PE). Marico is 100% EPR compliant and has recycled 100% post-consumer MLP waste.

The company uses HDPE, PP, PET, LDPE and Multilayer plastic packaging, serving, logistics and other operations. In FY 2021-22 approx. 25000+ MT of plastic was used.

EPR activity is carried out across all Indian states and union territories where the company has presence. For the same authorized third part agencies are appointed to collect, process, recycle and safely dispose plastic waste.

The company also ensures timely completion of EPR activity through external verification process by an auditing agency to review waste handling, recycling, disposing and documentation processes of the waste management agencies (WMAs).

REDUCING PLASTIC USAGE



MARICO HAS REDUCED AROUND 230 MT OF VIRGIN MATERIAL BY INTRODUCING RECYCLED PLASTIC IN LAST 2 YEARS.



THE COMPANY INTENDS TO INCREASE USE OF RECYCLED PLASTIC TO AROUND 500 MT IN FY 22-23.

RAISING CONSUMING AWARENESS

In FY 2020, Marico partnered with several agencies, multilateral bodies and NGOs with an aim to build awareness amongst consumers about plastic waste handling and encourage them to take an active role. Several community awareness programs, plastic collection drives, beach clean-up activity and medical tests for waste aggregators were undertaken during the year.





FUTURE PLANS

Marico aims to constantly improve and promote sustainability in its' packaging portfolio. Towards the same, an 'UpCycle' program has been launched. The program aims to establish and enhance value of packaging material at every stage of its life, with primary focus on plastic.



AS PART OF ITS ESG 2.0 FRAMEWORK (DECADE OF ACTION GOALS), MARICO ASPIRES TO ACHIEVE 100% RECYCLABILITY IN PACKAGING BY 2025 AND USE 30% POST-CONSUMER RECYCLED PLASTIC IN ITS PACKAGING PORTFOLIO BY 2030.



As a founding member of the collaborative initiative, India Plastic Pact, Marico has taken certain targets to curtail wastage of plastic and transition to recyclable, reusable, and compostable plastic packaging material by 2030. Options of including recycled plastic content in packaging is also being explored.



Mondelēz
International
SNACKING MADE RIGHT



COMPANY BACKGROUND

Mondelez India Foods Private Limited (formerly Cadbury India Ltd.) has been present in India for over 70 years. The company introduced Cadbury Dairy Milk and Bournvita in India in 1948 and since then has been a leader in the chocolate category in the country. Part of Mondelēz International, the company operates in the chocolate, beverages, biscuits, and candy categories in India.

Headquartered in Mumbai, the company has a pan Indian distribution and sales network with manufacturing facilities at Maharashtra, Madhya Pradesh, Himachal Pradesh, and Andhra Pradesh, in addition to a global Research & Development Technical Centre and Global Business Hub in Maharashtra.



MANAGING PLASTIC WASTE

Mondelez has surpassed EPR norms in 2021-22 to achieve 100% plastic waste neutrality and is aiming to be plastics neutral as per EPR norms for the current year 2022- 23.

The company is largely using Multi-layered plastic (MLP) for packaging. In 2021-22, Mondelez recycled 64% of its total plastics waste and an end-of-life disposal was done for the remaining 36% by co-processing in cement kiln or waste to energy.

Two key enablers that will help food companies reduce plastic footprint include amendment of BIS standards related to use of recycled plastics for food contact purposes and finality on the draft of the Food Safety and Standards (Packaging) Regulations.

REDUCING PLASTIC USAGE

Mondelez is also focussed on reducing plastic usage. So far, about 600 MT of the company's virgin plastics use is replaced by post-consumer recycled (PCR) content.

This is largely a result of focus on recycled plastics and adopting R-PET (recycled polyethylene terephthalate) for the leading SKUs; reducing pack size and use of PCR (Post-consumer resin) wherever possible and removing single use plastics in some of the SKUs.



ABOUT 600 MT OF THE COMPANY'S VIRGIN PLASTICS USE IS REPLACED BY POST-CONSUMER RECYCLED (PCR) CONTENT.



Black HIPS tray

Rpet Tray



R-PET spoons for Lickables

RAISING CONSUMING AWARENESS

As an effort towards reducing plastic waste at consumer end, the company is arranging for collection of used product canisters to ensure proper disposal. This primarily helps address the disposal of plastic packaging material which is often improperly disposed due to lack of awareness.



In July 2021, Mondelez India made a seed investment into Hasiru Dala, an NGO, to create a social enterprise to sort, clean, and recycle flexible plastic waste into more sustainable everyday products and targets to recycle 600 tons of multi layered plastics every year. The project implements recycling technology purchased from a local start-up and, together, these women-led local businesses positively impact the local economy through job creation.

Mondelez International has also invested in the Circulate Capital Ocean Fund (CCOF) that is focused on advancing efforts in Plastic Waste Collection and Recycling in India. The company is also part of the India Plastics Pact.

FUTURE PLANS

Mondelez is committed to sustainable packaging and has made significant progress toward packaging recyclability targets. The company has removed 65,000 tons of packaging from its portfolio since 2013 and aims to achieve the following major goals by 2025:



100% OF PACKAGING TO BE DESIGNED FOR RECYCLABILITY BY 2025



UTILIZE 5% RECYCLED PLASTIC CONTENT ACROSS PLASTIC PORTFOLIO BY 2025



REDUCE VIRGIN PLASTIC BY 25% IN RIGID PLASTIC PORTFOLIO AND 5% FOR ALL PLASTIC PACKAGING





COMPANY BACKGROUND

Mother Dairy, commissioned in 1974, is a wholly owned subsidiary of the National Dairy Development Board (NDDB). It was established under the initiative of 'Operation Flood', world's biggest dairy development program launched to make India a milk sufficient nation.

Today, Mother Dairy is a leading dairy player that manufactures markets & sells milk and milk products including cultured products, ice creams, paneer and ghee under the 'Mother Dairy' brand. The Company also has a diversified portfolio with products in edible oils under the 'Dhara' brand and fresh fruits & vegetables, frozen vegetables & snacks, unpolished pulses, pulps & concentrates, etc. under the 'Safal' brand.

Mother Dairy through its brands has a national footprint across all major cities in India, offering a delectable range of products to its consumers.



MANAGING PLASTIC WASTE

Mother Dairy is committed to meeting the EPR compliance requirements. Mother Dairy holds the distinction of being 1st dairy co-operatives to obtain Central Pollution Control Board (CPCB) Registration in Nov 2018 as per PWM Rules for implementation of EPR.

Mother Dairy is using both Multi-Layer Plastic (MLP) well as Single Layer Plastic (SLP) in primary packaging of its products like ice cream, milk, dahi, yoghurt, edible oil etc as well as for logistics.

The companies EPR journey started in Maharashtra from June 2018 with 100% EPR compliance, and slowly the initiative was implemented pan India over the last 3 years period.

Towards meeting the EPR requirements the company has collected & recycled/co-processed 5,318 MT of Single Layered Plastic Waste and 2,846 MT of Multi-Layered Plastic Waste, post-consumer use, from June 2018 to March 2022.

A key enabler towards reducing virgin plastic would be developing a strong coordinated working mechanism with all the stakeholders, which include but are not limited to MoEFCC, BIS, FSSAI, the Central Pollution Control Board, all the State Pollution Control Boards and the Pollution Control Committees, the Urban Local Bodies, representatives of the plastic industry, including the plastic recycling industry as well as consumers.



TOWARDS MEETING THE EPR REQUIREMENTS THE COMPANY HAS COLLECTED & RECYCLED/CO-PROCESSED 5,318 MT OF SINGLE LAYERED PLASTIC WASTE AND 2,846 MT OF MULTI-LAYERED PLASTIC WASTE, POST-CONSUMER USE, FROM JUNE 2018 TO MARCH 2022.



REDUCING PLASTIC USAGE

Mother Dairy has a strong stand towards contributing to a safer and cleaner environment for a better tomorrow. Towards the same, Mother Dairy is also focussed on reducing plastic usage. The Token Milk (branded loose milk) offering since 1984, has been helping save approx. 7 lakh kgs of plastic coming into the environment every year.

The company has been able to reduce its usage of plastic by approx. 86 MT annually in the milk pouches by working on the pouch thickness.

The company has also initiated research program on eco-friendly packaging paper trays for curd cups as replacement of plastic trays, which is expected to eliminate usage of approx. 100 MT of plastic.

Specifically for its ice cream and dairy products range, Mother dairy has replaced all plastic spoons with wooden spoons and loose plastic straws provided along with its dairy products since 2018.

THE COMPANY HAS
BEEN ABLE TO REDUCE
ITS USAGE OF PLASTIC
BY APPROX.

86 MT
ANNUALLY
IN THE MILK POUCHES
BY WORKING ON THE
POUCH THICKNESS.



RAISING CONSUMING AWARENESS

Mother Dairy as a responsible company has taken several initiatives towards creating awareness on Plastic Waste Management and its responsibility towards recycling.

On the 150th birth anniversary of Mahatma Gandhi, Mother Dairy today undertook a major awareness drive urging its consumers to reduce use of plastic. To drive home the point, the company commissioned a 25-foot effigy of Ravan using waste plastic collected from households of Delhi-NCR. The Ravan effigy was not burnt but was dismantled and sent for recycling by IPCA, a Producer Responsibility Organisation certified by Central Pollution Control Board. The collection drive was carried in areas across Delhi, Gurugram, Noida, Faridabad and Ghaziabad; along with consumers depositing plastic waste at select milk booths in these regions. The drive was supported by leading NGOs for door-to-door plastic collection. As part of the campaign, Mother Dairy also promotes the concept of buying token milk (Bulk Vended Milk) to contribute to saving the society of the evils of plastic.

On this occasion, Mother Dairy also undertook an awareness-march at Buddha Jayanti Park, in New Delhi, that was joined by over 2000 residents from Delhi NCR comprising of its consumers, employees, ex-servicemen booth-operators and other stakeholders, who also took a pledge to reduce plastic usage.



FUTURE PLANS

Sustainability being a core philosophy, Mother Dairy remains committed to reducing the company's impact on the environment through responsible environmental management, conservation, and protection across all of aspects of operations.

In the current fiscal Mother Dairy aims to recycle/ co-process more than 7,000 MT of post-consumer used Plastic Waste.

It is also committed to innovate and focus more on sustainable and eco-friendly packaging

IN THE CURRENT
FISCAL MOTHER DAIRY
AIMS TO RECYCLE/
CO-PROCESS
MORE THAN
7,000 MT
OF POST-CONSUMER
USED PLASTIC WASTE.





Nestlé

Good food, Good life



COMPANY BACKGROUND

Nestlé is one of the world's largest food and beverage company having more than 2000 brands ranging from global icons to local favourites and are present in 186 countries worldwide. Nestlé India is a subsidiary of Nestle S.A. of Switzerland.

The company has presence across India with nine manufacturing facilities and four branch offices spread across the region. The Company is primarily involved in Food business which incorporates product groups viz. Milk Products and Nutrition, Prepared dishes and Cooking aids, Powdered and Liquid Beverages and Confectionery.



Moga (1961)



Nanjangud (1989)



Ponda (1995)



Pantnagar (2006)



Chooladi (1967)



Samalkha (1992)



Bicholim (1997)



Tahiwal (2012)



Sanand (2021)

MANAGING PLASTIC WASTE

Nestlé India is committed to sustainability and is focused on reducing waste generation through packaging.

The company continues to be plastic neutral since 2020. In 2020, the company achieved Extended Producers' Responsibility (EPR) target of 20,000 MT and in 2021 the target of 23,600 MT of post-consumer plastic packaging waste.

Nestlé India is plastic neutral across their key brands, such as MAGGI, Milkmaid, Everyday, Polo, Munch, Milkybar, KitKat, Munch, and others. They have managed to achieve this through co-processing of Multi-Layered Plastic, Flexible Plastic and Tetra packs and recycling of rigid and monolayer packaging.

The company works with several waste agencies, for end-to-end management of plastic waste, towards plastic neutrality.



REDUCING PLASTIC USAGE

Nestlé is committed to reduce their virgin plastic usage by 1/3rd by 2025 and towards the same the company has intensified their efforts to develop innovative new materials that can deliver the desired protection and functionality of incumbent packaging materials with better environmental performance.

In 2021, the company reduced approximately 590 MT of virgin plastic through various initiatives. In 2022, the company expects that the initiatives undertaken will lead to around 200 MT annual reduction of virgin plastic. Additionally, Nestlé India has taken a conscious decision of moving to non-plastic promotional items (approx. 300 MT) and eventually cutting down the use of virgin plastic.

Nestlé India is committed to shift to 100% recyclable or reusable packaging by 2025. As part of the commitment, the company has initiated the following actions:



IN 2021, THE COMPANY REDUCED APPROXIMATELY 590 MT OF VIRGIN PLASTIC

- The company has replaced Polypropylene straws with paper straws in ready to drink segment. Through this initiative the company has eliminated 30 million plastic straws annually. The paper straws are responsibly sourced from renewable sources and are certified by the Forest Stewardship Council (FSC). To generate awareness on the same, the company has conducted consumer campaign on Paper Straws through plastic identification logos on pack.
- The company has replaced secondary poly bags with Paper bands for chain packs.
- The company is currently in the process of developing packaging which are designed to be recyclable.
- The company is currently operating with mono material packaging, which is a better form of recycling.

To achieve the targets, Nestlé is also ensuring continuous optimization of packaging by source reduction, eco-design and value engineering. Additionally, they are in research stages and will be moving some material to compostable in 2022.

Towards achieving the long-term vision on sustainable use of plastics the company is working on the following interventions

- **Design for recycling** – Through this, Nestlé India is constantly developing packaging material that can be easily recycled e.g. moving from multi-layered packaging to mono material.
- **Fit for purpose** – This intervention will help reduce the use of virgin plastic by optimizing the head space in product packaging.
- **Paperization** – Exploring opportunities for moving into paper-based packaging – paper being a renewable source e.g. converting plastic straws to paper straws.

RAISING CONSUMING AWARENESS

Towards raising consumer awareness, Nestlé a+ brand collaborated with Tetra Pak to launch Cartons to Classroom, an initiative to increase awareness about recycling in India by converting used beverage cartons to create classroom furniture for schools for less-privileged children.

Nestlé India has also initiated a project titled “HILLDAARI” in select tourist cities – Mussoorie, Nainital, Dalhousie, Mahabaleshwar, Munnar and Ponda. Through the project the company is working back with the Urban Local Bodies (ULBs) to empower waste workers and focus on working collectively with local stakeholders like urban local bodies, institutions, residents, households, waste generators and waste workers to raise awareness about anti-littering and segregation at source.

Through ‘HILLDAARI’ movement, Nestlé India develops model hill stations in the country by inspiring the feeling of responsibility towards the hills amongst local communities and tourists and by systemically remoulding the waste management process. This movement is inspiring the people to segregate their waste and not litter in the slopes and contributing to collectively transforming these hill towns to become the cleanest towns in the country. These projects focus on:

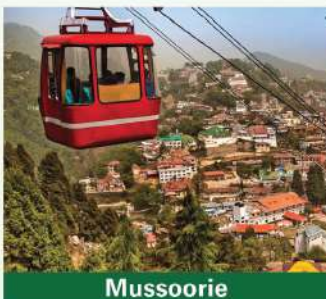
- Creating a participatory and inclusive Governance structure
- Integrate infrastructure and streamline segregated waste supply chain
- Conduct behavioural change activities across all waste generators and tourist locations
- Provide protective gear, capacity build and formalize the waste workers and the waste value chain
- Develop monitoring system for segregated waste collection, transportation, and disposal

Hilldaari - Collaboration and Awareness

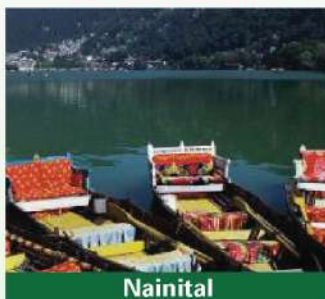


Establishing Waste Management Systems in Tourist Locations

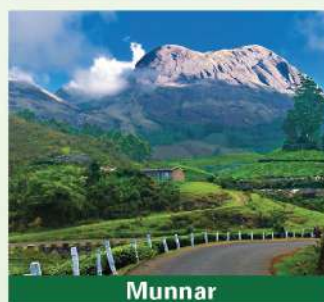
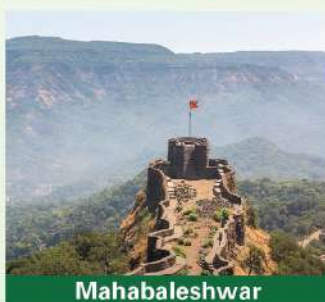
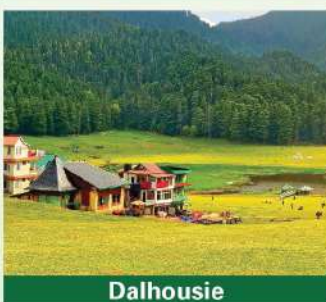
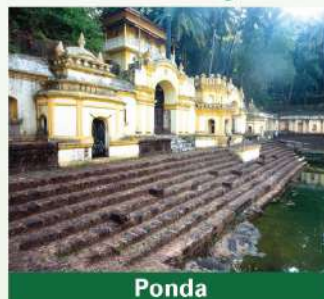
Divert Waste from Landfill



Waste Worker Professionalization



Enabling Digital Monitoring



Given the pandemic situation, as a part of Hilldaari, virtual training was organized for waste workers in Mussoorie, Nainital, Mahabaleshwar, Ponda and Dalhousie to help them adapt to the changes in the new normal, equipping them with safer working conditions.

They were provided with PPE kits and safety kits and trained how to use it. Training was also provided how to collect waste with minimum contact, ensure proper sanitation and safety before meeting other people at their respective homes.

News ways of collecting and disposing waste were introduced, such as establishing 4-part segregation (dry waste, wet waste, domestic bio-medical waste and hazardous waste) for collection and proper disposal of waste. Waste workers were trained to use smartphones and digital monitoring apps required for monitoring the collection and segregation of waste. The waste workers were also trained in availing relevant government scheme.

FUTURE PLANS

Nestlé India is committed to environmentally sustainable business practices across its value chain making the right choices to protect the future by integrating environmental considerations into its business planning. Preserving the planet is weaved into the Purpose of the Company - "We unlock the power of food to enhance quality of life for everyone, today and for generations to come".

Nestlé has accelerated the sustainability journey by working across 4 commitments related to climate, packaging, sourcing, and water. Its efforts encompass the entire value chain, where it actively engages with farmers, suppliers, employees, and consumers to increase awareness about the planet.



**COMMITTED TO REDUCE THEIR VIRGIN
PLASTIC USAGE BY 1/3 RD BY 2025**



PEPSICO



COMPANY BACKGROUND

PepsiCo is one of the world's leading convenient foods and beverages companies. The company's products are available in more than 200 countries and territories around the world, and its brands generate more than US \$1 billion each in estimated annual retail sales, leading to PepsiCo generating more than \$79 billion in net revenue in 2021.

Through pep+ (PepsiCo Positive), the company is charting a new course to drive positive action for the planet and people. pep+ is an end-to-end strategic business transformation with sustainability and human capital at the centre of how the company will create growth and value by operating within planetary boundaries and inspiring positive change.

Through the pep+ pillars, Positive Agriculture, Positive Value Chain and Positive Choices, PepsiCo is working to source ingredients and make their products in more sustainable ways, leveraging connections with consumers to take sustainability mainstream and help people make choices that are better for themselves and the planet.



MANAGING PLASTIC WASTE

PepsiCo recognizes the important role that they play in driving towards a circular economy and reducing plastic waste. The company aims to use their customer reach and influence to help change the way society makes, uses, and disposes off plastics.

Towards this, PepsiCo has taken on a three-pronged approach-

- **Reduce:** the amount of plastic used
- **Recycle:** more plastic to keep the material in the circular economy
- **Reinvent:** packaging materials and solutions

As part of their Extended Producer Responsibility (EPR) responsibility, the company has been actively working across all States and union territories with multiple waste management partners to collect, segregate & sustainably dispose 100 percent of equivalent of plastic packaging they generate every year, for realizing their plastic waste vision and establishing effective plastic waste management systems.

PepsiCo's collection tools for EPR includes a combination of dry waste collection centres, collection points, engaging with waste pickers, local aggregators, and scrap dealers, door to door collection, resident welfare associations, societies, and institutions.

The model also envisages sensitizing and incentivizing the waste pickers to collect the post-consumer plastic waste and ensure capacity building and training of waste collectors on better sorting, segregation & safety measures. The project involves liaison with urban local bodies, policy makers, NGOs, and government bodies to drive awareness on collection and segregation.

The company has been closely working with waste management partners to provide essential trainings and knowledge dissemination workshops to waste worker community. The collected waste is channelized for reprocessing leading to environmental benefits by preventing disposal of waste in landfill, mitigation of carbon dioxide equivalent emission and reducing dependence on non-renewable sources of energy. The projects have cascading impact on upliftment of marginalized community of waste pickers, providing them with fixed income by collection of low value plastics.

Lead Change Through Active Partnerships and Stakeholder Engagement

PepsiCo partnerships with trade associations, industry coalitions, producer responsibility organizations, policy makers, and community-based organizations range from consumer awareness and education programs to research partnerships around innovative technologies and materials.

- Circular Sustainability Solutions Private Limited- PepsiCo India along with other major FMCG players, established a producer led, Producer Responsibility Organization for a collective EPR- Extended Producers' Responsibility. The entity with brand owners has developed a framework for a Producers led and governed plastic waste management system, which is scalable, inclusive, fair, ethical, transparent, and auditable.

- In partnership with the PepsiCo Foundation, work is ongoing to increase recycling rates. The investments include, Circulate Capital, Alliance to End Plastic Waste etc.

REDUCING PLASTIC USAGE

PepsiCo is committed to making 100 per cent recyclable, compostable, or biodegradable packaging by 2025. Towards this, the company tested industrially compostable, thin film packaging for snack products that will biodegrade over time if disposed in well-managed composting facilities.

The company is also aiming for a 35% reduction in the use of virgin plastic across their beverage portfolio by 2025. PepsiCo is also working towards increasing food grade rPET in their packaging to ensure that at least 25% of recycled content is used in their packaging.

PepsiCo is working to reduce plastic usage by minimizing plastic used in their packaging and by exploring alternative low impact, environmentally friendly packaging materials and delivery mechanisms. The company is working to ensure 'right size' snack packages using an improved packaging technology and is working on light weighting of beverage PET bottles to use less plastic.



THE COMPANY IS WORKING TO ENSURE 'RIGHT SIZE' SNACK PACKAGES USING AN IMPROVED PACKAGING TECHNOLOGY AND IS WORKING ON LIGHT WEIGHTING OF BEVERAGE PET BOTTLES TO USE LESS PLASTIC.

RAISING CONSUMER AWARENESS

Towards raising community and consumer awareness regarding sustainable usage of plastics, PepsiCo is undertaking several initiatives as below-

Tidy Trails: PepsiCo India in association with United Way Delhi has launched a special initiative - 'TIDY TRAILS', aimed at effective management of post-consumer plastic waste. The initiative has been launched in Mathura and Vrindavan to encourage people to keep their local environment clean and foster 'tidy'ness, thereby setting good examples and inspiring other communities to follow. As part of the initiative, a mobile van will go to various shops across Mathura-Vrindavan



to collect plastic waste. The collected plastic will be recycled/ repurposed into tables and chairs, which will be installed at various public places, especially tourists' spots. Further, mass awareness drives will also be conducted through public events, online workshops, and competitions for communities.

Dry Waste Management Education Initiative across Darjeeling: The program was launched in partnership with NEPRA to create awareness about dry waste management, amongst students across schools in Darjeeling. Students donated multi-layered plastic (MLP) at dedicated collection points, which were then collected and sustainably disposed. Over 600 students from 10 schools were sensitised to the different types of plastics and how they can be recycled and recovered. The initiative garnered a reach of 2.8 million.



A similar initiative was also undertaken in Varanasi, aimed at creating awareness and urge students to donate plastic waste for repurposing into useful products like school tables and chairs.

Cleanathon at Nagpur: PepsiCo achieved a 100% PET collection and recycling in Maharashtra, by collecting 6500 metric tons of post-consumer PET in the year 2018-2019. 100 Collection Points and Collection centres were set up across 36 districts of Maharashtra to collect used PET and engaged more than 10,000 waste-pickers ensuring them a higher income by incentivizing collection efforts



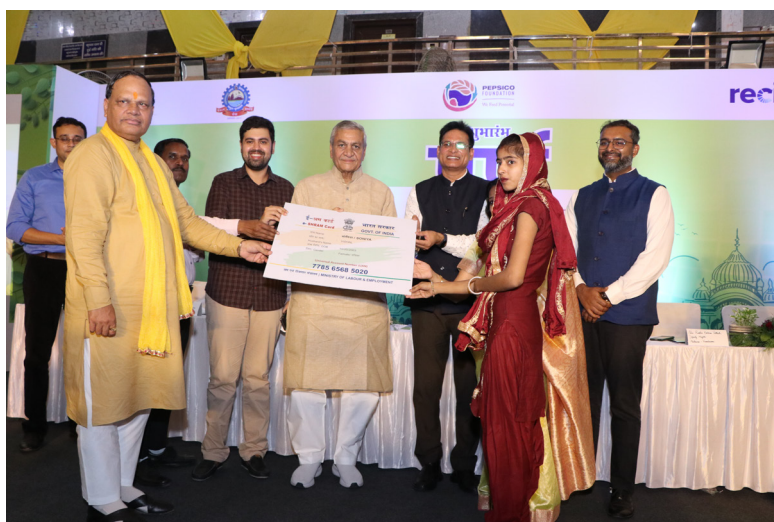
PEPSICO ACHIEVED A 100% PET COLLECTION AND RECYCLING IN MAHARASHTRA, BY COLLECTING 6500 METRIC TONS OF POST-CONSUMER PET IN THE YEAR 2018-2019.

“WhyWaste” initiative on Swachh Bharat Diwas: PepsiCo India and United Way launched a waste management initiative to reduce and reuse plastic and upcycle non-biodegradable waste generated at home and/or communities. The key purpose of this initiative was to mobilize the thoughtfulness of school and college students, RWAs, and individuals towards environmental sustainability through the means of conscious upcycling of plastic at home. The initiative saw participation from over 1 lakh people, involving 50 schools and 20 colleges, 15 RWAs and PepsiCo India employees.



PepsiCo India has partnered Smile Foundation to launch a special initiative on plastic waste management- ‘Waste no More’. Through this initiative, PepsiCo India is engaged with +200,000 students from + 200 schools across +50 cities in India. The initiative aimed to bring behavioural change, educate the community and students about the importance of preserving the environment and learn more about sustainability. A special microsite wastenomore.co.in was created to showcase innovative ideas submitted by children from participating schools.

PepsiCo Foundation in collaboration with Recity Network Private Limited and Mathura Vrindavan Nagar Nigam launches Purna, a project to improve the life chances of waste workers in the city of Mathura-Vrindavan and to create a circular waste ecosystem in the city. The project will be focused on diverting waste by setting up an integrated circular waste management system and will ensure 80% source segregation by organizing door to door awareness and monitoring to 4000 property units, clean-up drive & visible transformation activity to clear Garbage Vulnerable Points (GVP's), occupational health & hygiene trainings and support 100 waste workers them to become waste professionals.



THROUGH THIS INITIATIVE, PEPSICO INDIA IS ENGAGED WITH +200,000 STUDENTS FROM + 200 SCHOOLS ACROSS +50 CITIES IN INDIA.

FUTURE PLANS

PepsiCo is committed to focus on sustainability and shift towards sustainable packaging. Underpinning the strategic pillars of PepsiCo's sustainable packaging strategy is a broad engagement with partners and other stakeholders to collectively drive change by -

- Designing 100% of packaging to be recyclable, compostable, biodegradable, or reusable by 2025
- Continuing to invest to help increase recycling rates in key markets
- Globally, cutting virgin plastic from non-renewable sources per serving across PepsiCo's global beverages and convenient foods portfolio by 50% by 2030 through:
 - Scaling new business models that avoid or minimize packaging materials (e.g., models that reuse, refill, prepare at home, utilize concentrates like powders, drops, etc.)
 - Reducing the company's absolute tonnage of virgin plastic from non-renewable sources by 20%, including by:
 - Using market-leading bio-based and renewable materials
 - Using 50% recycled content in plastic packaging
- Developing and deploying disruptive sustainable packaging materials and new models for convenient foods and beverages (e.g. SodaStream, powders, bio-based materials, reusable or low/no package models)

PERFETTI

van Melle



COMPANY BACKGROUND

Perfetti Van Melle India Private Limited (PVMI) is a fully owned subsidiary of the global conglomerate Perfetti Van Melle, headquartered in Lainate, Italy and Breda, Netherlands.

PVMI has a diverse portfolio of brands across segments - sweets and confectionery, fruit jellies, fruit bars, and proprietary ayurvedic medicine - which it sells through various sales channels across the country. PVMI's flagship brands are Center Fruit, Alpenliebe, Mentos, Center Fresh, Happydent etc.

The Company also enjoys certain reputation and position in the market as a prominent player in this segment and for having provided consumers and customers with not only great product experience but also with unique creative memories over the past two and half decades.



MANAGING PLASTIC WASTE

Perfetti Van Melle India is Plastic Waste neutral by successfully undertaking EPR of entire post-consumer plastic waste generated due to marketing of its products as regards low value plastic such as flexible and multi-layered plastic (MLP). The company ensures that the equivalent amount of plastic waste which is generated due to marketing of PVMI products is collected and processed with support of the Waste Management Agencies(WMA).

Perfetti uses plastic for packaging the goods to maintain quality and food safety parameters in the products throughout their shelf life period.



THE COMPANY'S CONSOLIDATED POST CONSUMER PLASTIC WASTE QUANTITY IS APPROX. 8500 MT THAT INCLUDES RIGID, MULTI-LAYERED PLASTIC (MLP) AS WELL AS FLEXIBLE (AS PER THE CATEGORISATION UNDER EPR REGULATIONS BY MEFCC).

Perfetti is managing post-consumer plastic waste as brand owner to fulfil its EPR obligations. Towards the same the company has tied up with vendors and service providers (waste management agencies (WMAs)) who are helping PVMI collect, segregate and process post-consumer plastic waste from the market. The company ensures that WMAs are enrolled with the concerned Urban Local Body (ULBs)/ designated state authority for implementation of statutory requirements as stated under Plastic Waste Management Rules, 2018 (as amended).

As per the post-consumer plastic waste target assigned by PVMI, WMA collects the mixed waste with the help of waste collectors in different locations. The collected waste is being further sorted/segregated, bailed, and transported for processing to recycler/ cement plants/ waste to energy/ Pyrolysis etc. The entire process of undertaking EPR is supported with the required documents right from collection/segregation till processing.

Some of the key enablers which could further bring efficiency in the plastic waste management process include

- Creating mass awareness on importance of source segregation of the domestic waste so that the plastic content of this waste can get channelized to the stream of plastic recycling or processing without requiring intensive and cost incurring segregation at the collection centers as well as subsequent cleaning before its recycling.
- Ragpickers and waste collectors are part of the critical stakeholders in management of the post-consumer plastic waste and hence collective endeavours to improve their livelihood as well as health and wellbeing need to be continued and assessed time to time. The government and corporate sector together can play an important role on this aspect.
- Recycling of plastic is an alternative and sustainable way to plastic co-processing, which is yet to be developed and hence must be supported financially through the government initiatives.

From policy perspective, as per current regulation only recycled PET is allowed to be used as food contact material. It is recommended that guidelines be considered in respect of use of other type of recycled plastic packaging as food contact material such as PP, flexible, MLP etc.

REDUCING PLASTIC USAGE

Towards reducing plastic usage, PVMI is focusing on recycled plastics and has introduced recycle r-PET Jars which are being used for secondary packaging of some of the PVMI products.



USE OF R-PET JARS HAS ENABLED REDUCTION IN VIRGIN PLASTIC USAGE BY ALMOST 20% IN SUCH PACKAGING WHICH IN TURN IS HELPING AVOID USAGE OF VIRGIN PLASTIC BY ~ 76 TONS ANNUALLY.

RAISING CONSUMING AWARENESS

PVMI was amongst corporations which came forward and supported “Swatchta hi Seva” mission initiated by the Hon’ble Prime Minister in 2019. Employees and workers of the company turned out in large numbers across its three manufacturing units situated near Manesar, Rudrapur and Chennai and volunteered to collect large quantities of plastic waste littered in and around public places.



PVMI also undertook a special project of showcasing “**value to waste concept**” by inaugurating in Gurugram city’s first ‘**public park renovated with recycled plastic**’ in collaboration with the Municipal Corporation of Gurugram. This public park has been renovated with tiles, playground equipment, benches and other amenities using recycled & reprocessed post-consumption packaging material.

Under a CSR linked initiative “Parishram” PVMI has **partnered with Trash to Cash, an NGO** to run a project on churning-out gifting solutions out of the unutilized packing material and help augment earning & employment opportunities for differently abled individuals. PVMI has helped augment their earning capacity by converting boxes, bags, and office stationery and essential items of everyday use out of unused packaging material.

With the help of **Waste Management Agencies**, who work with government institutions, industries, households, hospitals and schools PVMI has organised training and awareness programs on source segregation of Plastic Waste; Health and hygiene of rag pickers and waste collectors and trainings of rag pickers to sort the plastics.

Door-to-Door Plastic Collection, Tezpur, Assam India



FUTURE PLANS

The company is working on different solutions to develop recyclable packaging structures which can support the infrastructure of circular economy for plastic waste collection.



PVMI AIMS AT LEVERAGING ALL 3 MAJOR DRIVERS OF 3R (REDUCE, RECYCLE & REUSE) TO ACHIEVE PLASTIC REDUCTION IN ITS' PACKAGING YEAR ON YEAR.



Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government, and civil society through working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for Industry.

For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. The premier business association has around 9000 members, from the private as well as public sectors, and an indirect membership of over 300,000 enterprises from around 286 national and regional sectoral industry bodies.

With 62 offices, including 10 Centres of Excellence in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with 350 counterpart organizations in 133 countries, CII serves as a reference point for Indian Industry and the international business community.

Confederation of Indian Industry

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FACE is CII's Centre of Excellence dedicated to building efficiencies across the agricultural value chain from farm to fork. FACE is charged with the mission of improving competitiveness of India's agriculture and food sector by catalyzing innovation, building capacity and enhancing productivity across the value chain. FACE works with farmers, companies, development institutions and the government to

- Improve on and off-farm productivity through the dissemination of best practices and technological innovation
- Invest in capacity building initiatives and skill development for supply chain participants across the value chain
- Strengthen linkages across the value chain through market access initiatives, thereby reducing losses and increasing farmer incomes

FACE's service portfolio comprises commodity specific value chain assessments and supply chain advisory services for food and agri businesses, training and consulting services in the area of food safety, and sectoral research across different market segments. FACE also works on projects in PPP mode, to develop business models that are scalable and replicable across geographies.