



# Plastic Waste Management (Amendment) Rules, 2022

---

Ashish Jain  
Founder-Director  
Indian Pollution Control Association

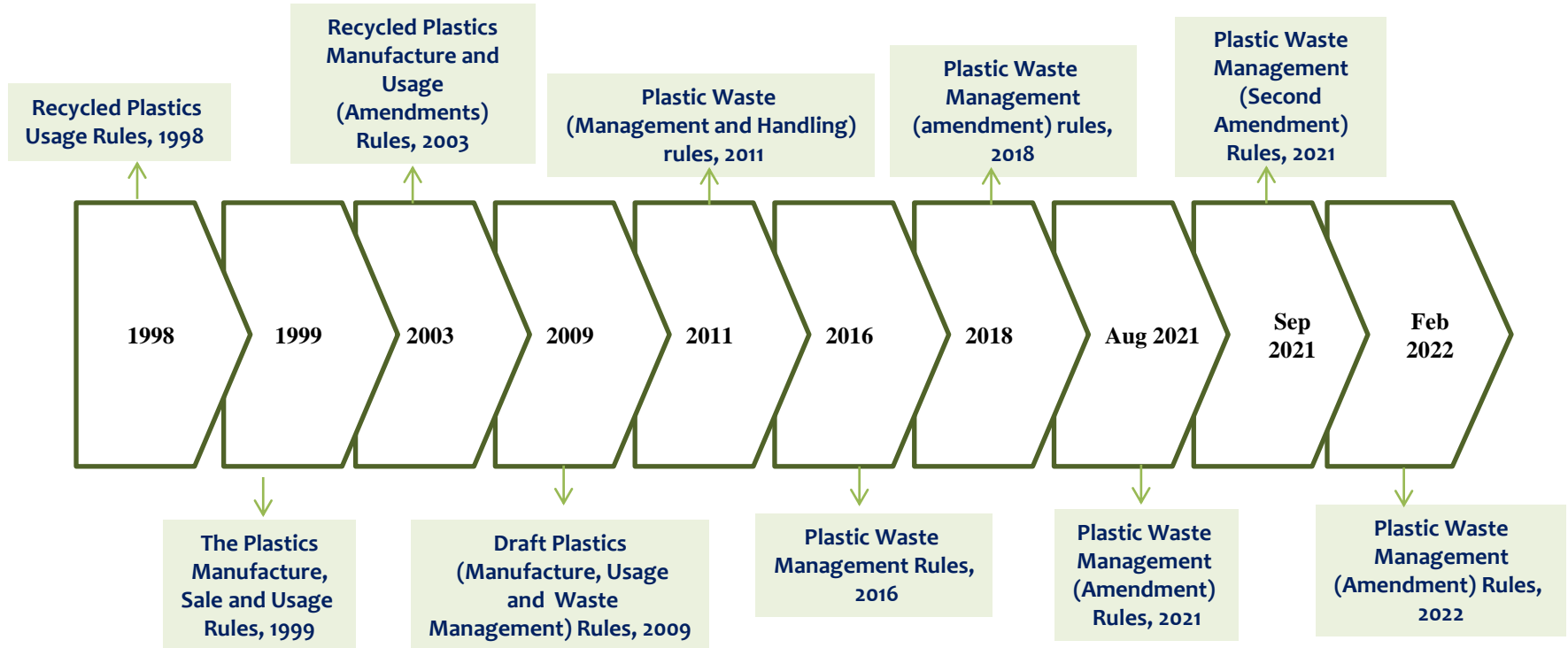
## What does the rule say?

The Plastic Waste Management Rules, 2016, mandate the generators of plastic waste to take steps to minimize generation of plastic waste, not to litter the plastic waste, ensure segregated storage of waste at source & hand over segregated waste in accordance with rules.

## The rule mandates the responsibilities of:

The rules mandate the responsibilities of local bodies, gram panchayats, waste generators, retailers and street vendors to manage plastic waste. The PWM Rules, 2016 cast Extended Producer Responsibility (EPR) on Producer, Importer, and Brand Owner and EPR shall be applicable to both pre-consumer and post-consumer plastic packaging waste.

## Timeline of the PWM Rules in India



## Significant terms used in the rule



- Biodegradable plastics
- Brand owner
- Carry bag
- Consent
- End of Life disposal
- Extended producer's responsibility
- Importer
- Multilayered packaging
- Plastic Packaging
- Plastic Sheet
- Plastic Waste Processors

- Pre-consumer plastic packaging waste
- Post-consumer plastic packaging waste
- Producer
- Registration
- Recycling
- Reuse
- Single Use Plastic (SUP)
- Virgin plastic generator
- Use of recycled plastic
- Waste to Energy

## Salient Features of the Rule (1 of 2)

- Carry bag made of virgin or recycled plastic, shall not be less than 75 microns in thickness till 31st December 2022 and after that 120 micron
- Carry bags or plastic packaging made of recycled plastics may be used for Packaging food stuff as per the FSSAI Standard and Guideline
- Sachets using plastic material shall not be used for storing, packing or selling guthka, tobacco, pan masala.
- Plastic sheet or like, which is not an integral part of multilayered packaging and cover made of plastic sheet used for packaging, wrapping the commodity shall not be less than fifty microns in thickness except where the thickness of such plastic sheets impair the functionality of the product
- **Producer, Brand Owner and Importers** need to work out collection back mechanism for the equivalent quantity of plastic waste introduced by them in Indian market to meet their EPR obligation.
- **Producer, brand owners, importer and PWPs** need to get registered with State Pollution Control Board/committee or Central Pollution Control Board through CPCB's online portal (if operating in more than 2 states) unless, their consent to operate will not get renew.

## Salient Features of the Rule (2 of 2)

- Single use plastic (plastic sticks of ice cream, balloon, flags, ear buds, decorative items, spoon, forks, cup, glass, cutlery) will be phased out by July 2022.
- Any plastic packaging which can not be recycled or used as alternate source of energy will be phased out.
- Multi-layered plastic packaging can be co-processed and used as alternate source of energy in waste to energy, cement kiln, road construction, pyrolysis, and gasification
- **Manufacturers** of plastic shall **not sell** or provide raw materials **to any unregistered producer/processor - rule 4 (e)**
- Recycling of Plastic Waste shall be only as per the IS14534:1998 - rule 5 (b)
- Local Body would be responsible for establishing the infrastructure.

## Obligated Entities to EPR

- **Producer (P)** of plastic packaging;
- **Importer (I)** of all imported plastic packaging and / or plastic packaging of imported products;
- **Brand Owners (BO)** including online platforms/marketplaces and supermarkets/retail chains other than those, which are micro and small enterprises as per the criteria of Ministry of Micro, Small and Medium Enterprises, Government of India
- **Plastic Waste Processors (PWPs)** except cement kilns & road construction

## Plastic packaging categories covered under EPR

<b>Category I</b>	Rigid plastic packaging
<b>Category II</b>	Flexible plastic packaging of single layer or multilayer (more than one layer with different types of plastic), plastic sheets or like and covers made of plastic sheet, carry bags, plastic sachet or pouches;
<b>Category III</b>	Multi-layered plastic packaging (at least one layer of plastic and at least one layer of material other than plastic);
<b>Category IV</b>	Plastic sheet or like used for packaging as well as carry bags made of compostable plastics

### The EPR Guidelines covers the following wrt to plastic packaging

- Reuse
- Recycling
- Use of recycled plastic content
- End of life disposal

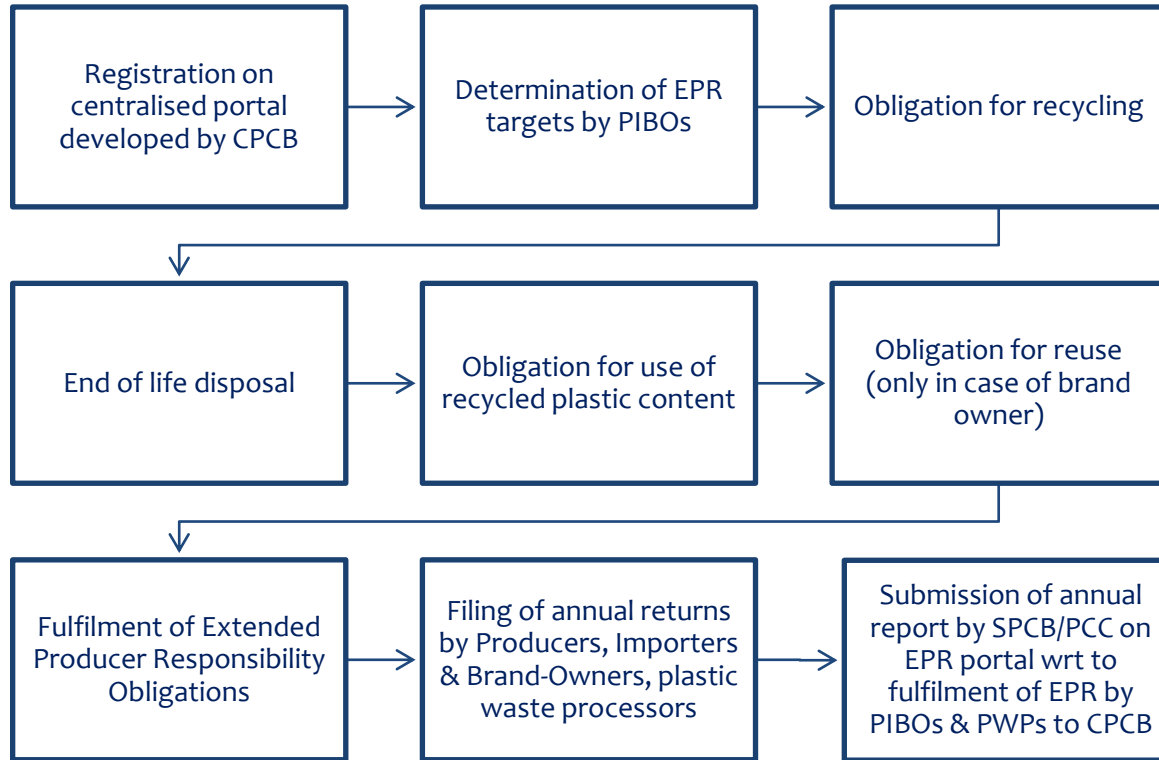


## Role of Producer, Importer & Brand Owners



- The PIBOs shall have to register through the online centralized portal developed by Central Pollution Control Board. The certificate of registration shall be issued using the portal.
- PIBOs shall provide Action Plan containing information on the EPR Target, category-wise, where applicable, through the online centralized portal developed by CPCB, along with application for registration or renewal of registration under PWM Rules, 2016.
- Brand Owner shall provide details of plastic packaging purchased from Producers and/or Importers separately. The quantities attributed to each Producer and Importer covered obligated upon Brand Owner shall be deducted from the obligation of Producers and Importers.
- The Producers and Importers will maintain the record of the quantity of plastic packaging material made available to Brand.
- The Producers, Importers & Brand-Owners shall file annual returns on the plastic packaging waste collected and processed towards fulfilling obligations under Extended Producer Responsibility with the Central Pollution Control Board or concerned State Pollution Control Board or Pollution Control Committee as per pro forma prescribed by Central Pollution Control Board by the 30th June of the next financial year.

## Steps to be followed by EPR obligated entities



## Formulas for calculating EPR liability

Q: Eligible Quantity in MT

A: The average weight of plastic packaging material sold in the last two FYs

B: The average quantity of pre consumer plastic waste generated in last two FYs

C: Quantity of plastic sold to Brand Owners in last financial year

D: The average weight of plastic waste purchased/introduced in the last two FYs

For Producer	For Importer	For Brand Owner
$Q = (A + B) - C$	$Q = (A + B) - C$	$Q = (D + B)$

## Plastic packaging waste collection system by PIBOs

While fulfilling EPR obligations, PIBOs may develop collection & segregation infrastructure of plastic packaging waste based on the category of plastics. It may include the following:



# Compliance related Rules (1 of 3)

## 1. Categories of Plastic:

Different types of plastics possess different characteristics. According to Plastic Waste Management Rules, 2016, there are 7 categories of plastics on the basis of its recyclability:

Category	1	2	3	4	5	6	7
	Polyethylene Terephthalate (PET)	High Density Polyethylene (HDPE)	Poly Vinyl Chloride (PVC)	Low density polyethylene (LDPE)	Polypropylene (PP)	Polystyrene resins (PS)	Multi-materials like Acrylonitrile butadiene styrene, poly-phenylene oxide, polycarbonate, Poly-butylene terephthalate

Examples:



## Compliance related Rules (2 of 3)

2. Each plastic packaging and multi-layered packaging shall have the following information printed in **English** namely-

- **Name, registration number** of the manufacturer, Producer or Brand Owner and thickness in case of carry bag and plastic packaging used by the brand owner;
- **Name and registration number** of the manufacturer in case of multi-layered packaging, excluding MLP packaging used for imported goods; and
- **Name and certificate number** of producer [Rule 4(h)] in case of carry bags made from compostable plastic

## Compliance related Rules (3 of 3)

**3.** In order to stop littering due to light weight plastic carry bags, with effect from 30th September, 2021, the thickness of plastic carry bags has been increased from fifty microns to seventy-five microns and to one hundred and twenty microns with effect from the 31st December, 2022. This will also allow reuse of plastic carry due to increase in thickness.

### Thickness of plastic carry bags

Before  
30.09.21



After  
30.09.21



After  
31.12.22



# Single Use Plastic (SUP)

As per Plastic Waste Management Amendment Rules, 2021, Single-use plastic item “is a plastic commodity intended to be used once for the same purpose before being disposed of or recycled”.

## Single Use Plastic items



## Impacts of Single Use Plastics

- On one hand affordability, durability, weightlessness & hygiene is what makes SUP used widely and on the other hand it is challenging to recycle them.
- Takes thousands of years to decompose, posing hazards to land, water and wildlife.
- The majority of single use plastics do not biodegrade but rather photo degrade, which means they gradually disintegrate into minute bits



## Ban on Single Use Plastic items

The **Plastic Waste Management Rules 2016, 2018 and the amendment in 2021** focus on single-use plastics. It prohibits identified single use plastic items which have low utility and high littering potential by 2022. It notifies that the manufacture, import, stocking, distribution, sale and use of following single-use plastic, including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st July, 2022

- Ear buds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice-cream sticks, polystyrene [Thermocol] for decoration
- Plates, cups, glasses, cutlery such as forks, spoons, knives, straw, trays, wrapping or packaging films around sweet boxes, invitation cards, and cigarette packets, plastic or PVC banners less than 100 micron, stirrers.

## Single Use Plastic Items to be banned



**Ear buds and  
plastic stick**



**Balloon  
plastic stick**



**Plastic flags**



**Candy stick, ice-cream stick  
and Plastic straws**



**Polystyrene  
(thermocol) for  
decoration**



**Plastic utensils such  
as plates, cups,  
glasses, spoons,  
knives and trays**



**The plastic sheet used  
around sweets boxes,  
invitation cards and  
cigarette packets**



**Plastic or PVC banners  
less than 100 microns**

## Penalty on use (and littering) of banned SUP items

- Spot fine on waste generators Rs.500/-
- Spot fine on institutional waste generators Rs.5000/-



## Who impose the Fine?

- 1) The State Pollution Control Board and Pollution Control Committee impose fine on defaulter producer of Single Use Plastic.
- 2) Local Bodies imposes fine on Retailer, Seller & User of Single Use Plastic.
- 3) Fines imposed in accordance with Guidelines for EC assessment prepared by CPCB.


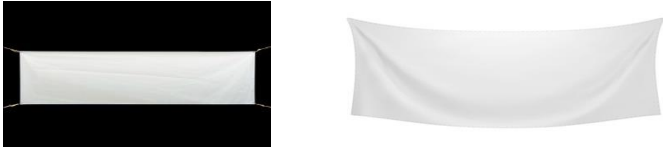
## Some alternatives to SUP items

Plastic item	Alternatives
<p>Plastic sticks used in balloons, flags, candy, ice-cream and ear buds</p>	<p>Bamboo &amp; other wooden sticks for ear buds, flags as per the guidelines of concerned authority.</p> 
<p>Thermacol that is used in decorations</p>	<p>Decorations with flowers, cloth, papers, &amp; other biodegradable material.</p> 

## Some alternatives to SUP items

Plastic item	Alternatives
<p>Items such as plates, cups, glasses</p>	<p>Glass, ceramic ware, earthenware, stainless-steel tableware for restaurants, dhabas hotels &amp; other dining places as per the guidelines of concerned authority</p> 
<p>Cutlery such as forks, spoons, knives, straws, trays</p>	<p>Paper, bamboo, wooden, stainless steel straws as per the guidelines of concerned authority.</p> 

## Some alternatives to SUP items

Plastic item	Alternatives
Non-woven bags below 240 microns	<ul style="list-style-type: none"> <li>• Paper bags for light weight products</li> <li>• Cloth bag for heavy products</li> <li>• Jute bag for heavy products</li> <li>• Reusable cotton bags or waste fabric bags</li> </ul> <div data-bbox="1039 453 1450 623">  </div>
Plastic banners less than 100 microns in thickness	<ul style="list-style-type: none"> <li>• Cloth/fabric banner, canvas banner, paper banner</li> <li>• Eco banners that are PVC free and 100% recyclable as an alternative to traditional PVC Banners.</li> </ul> <div data-bbox="1022 788 1688 935">  </div>



**Let's join our hands together to make our  
environment CLEAN and GREEN**

**Thank You!**