



**‘Promotion Of Countermeasures Against Marine Plastic Litter
In
Southeast Asia And India’
Campaign
“Rethink Plastic”**

Round Table Discussion
Plastic Pollution and Role of Stakeholders

December 23rd , 2019, Mumbai
Venue: 1st Floor, Management Council, University of Mumbai, Fort

Content

- Present Scenario
- Impacts of plastic pollution
- Plastic ban policies in India and other countries
- Segregation and Characterization of Marine Plastic litter – TERI , National Productivity Council (NPC) & United Nation Environment Programme (UNEP)
- Significance of Stakeholder Discussion

Current Scenario.....

Estimates by
CPCB - plastic
waste
generated in
India in the
year 2017-18
was

**660,787.85
Tonnes.**



About **60%** of that plastic ends up in either a landfill or the ecosystem

Globally only about **9 %** plastic gets Recycled.



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Impacts on Marine Life



- ~ **800** marine species have had damaging interactions with marine litter-
entanglement and ingestion
- ~ **17%** species impacted by marine plastic debris: **Near Threatened** species as per the IUCN Red List.

1. <https://www.google.com/url?sa=i&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwi0otLg8JmAhWRgAKHV5nBFoQjRx6BAgBEAQ&url=https%3A%2F%2Fscienceworld.scholastic.com%2Fissues%2F2016-17%2F041717%2Fan-ocean-of-plastic.html&psig=AOvVaw3fwn98d12hBe6Mn8tFrCfD&ust=1575441266915303>
2. [https://www.thenational.ae/image/policy/1.838894:1552991629/07430364.jpg?f=16x9&w=1200&Sp\\$w=6f82040](https://www.thenational.ae/image/policy/1.838894:1552991629/07430364.jpg?f=16x9&w=1200&Sp$w=6f82040)
3. <https://www.google.com/imgres?imgurl=https%3A%2F%2Fp.inimg.com%2Foriginals%2F8e%2F5d%2F21%2F8e5d213b095857b30d8e0da29397db97.jpg&imgrefurl=https%3A%2F%2Fwww.pinterest.com%2Fpin%2F343329171577877182%2F&docid=3TjVz1958mCk7M&tbnid=N0mh3suXgWzdbM%3A&vet=10ahUKEwjShdaZ7pjmAhXBShUIHc53AIMQMwHnKAwwDA..i&w=1600&h=1016&bih=757&biw=1600&q=marine%20animals%20and%20plastics&ved=0ahUKEwjShdaZ7pjmAhXBShUIHc53AIMQMwHnKAwwDA&iact=src&uact=8>
4. https://www.tropicalconservationfund.com/uploads/8/5/2/9/85297444/plastics-pollution_orig.jpg

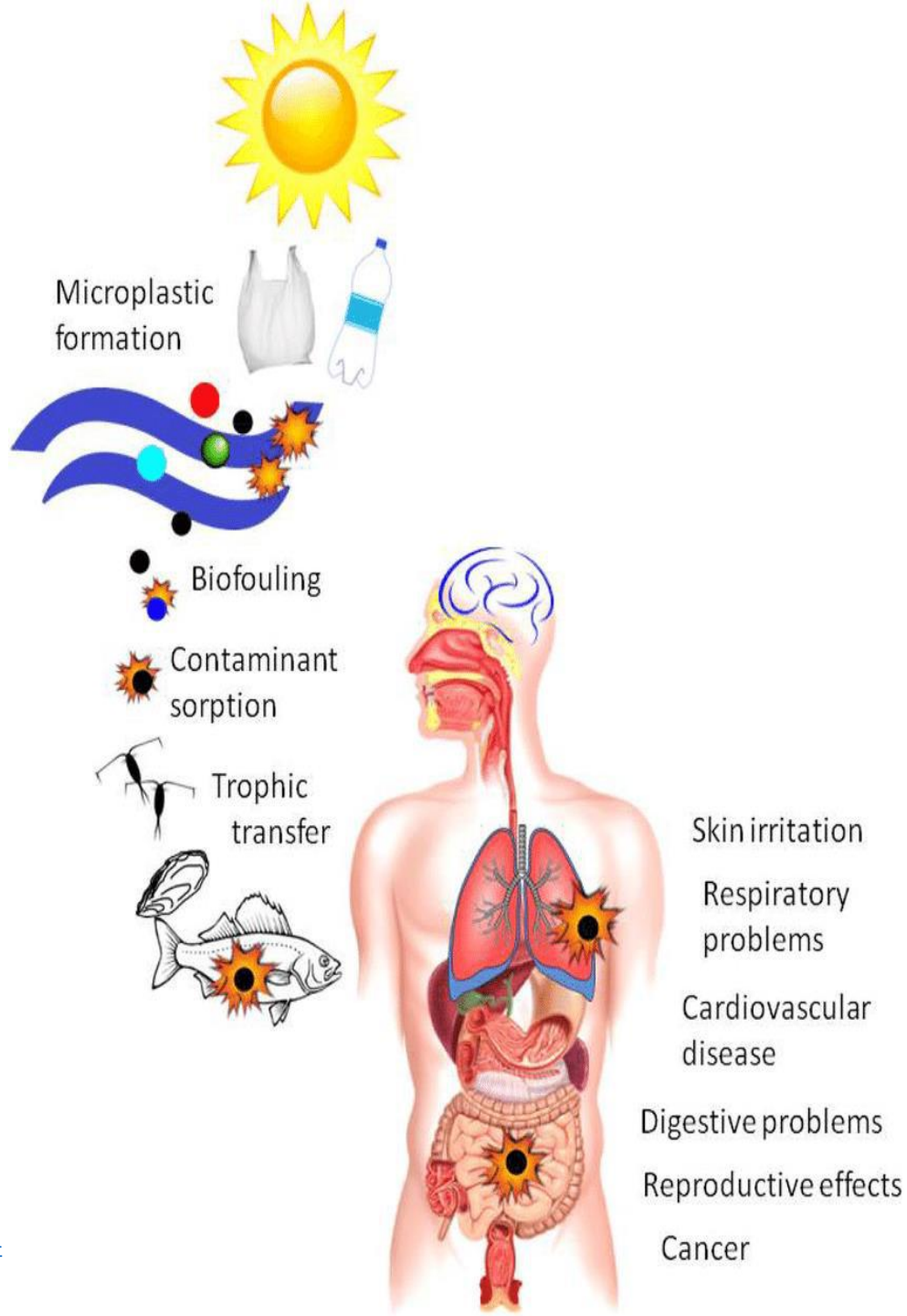
Humans may be consuming around **50,000** Micro plastic particles a year



<https://www.nationalgeographic.com/environment/2019/06/you-eat-thousands-of-bits-of-plastic-every-year/>

https://www.washingtonpost.com/health/youre-literally-eating-microplastics-how-you-can-cut-down-exposure-to-them/2019/10/04/22ebdfb6-e17a-11e9-8dc8-498eabc129a0_story.html

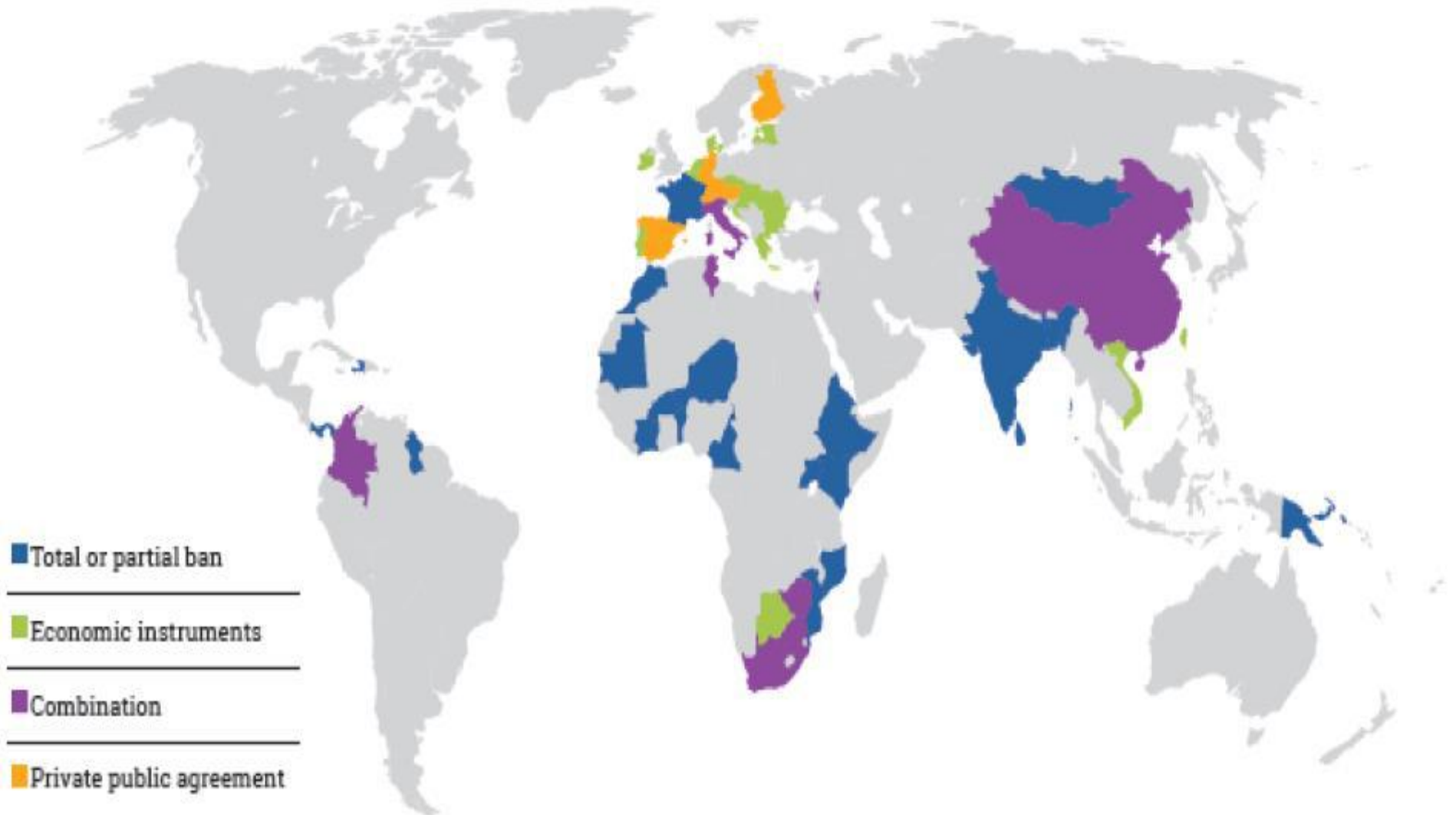
Impacts on Human Health



Content

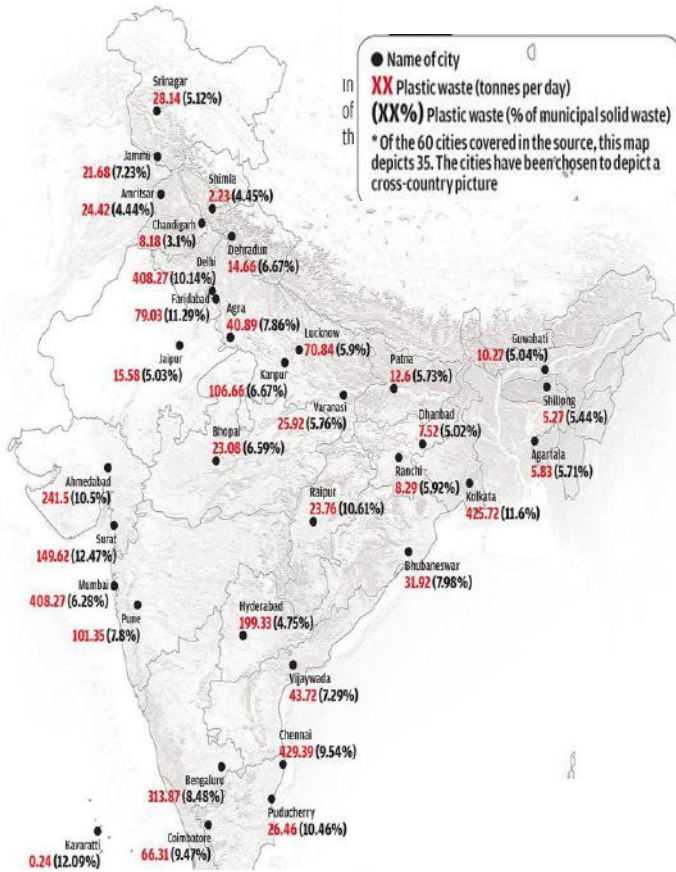
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Global Policies



Ban and its Impacts – India

“India would phase out Single-Use plastics by **2022**” ...Prime Minister Narendra Modi .



| City | Ban on Plastic Products | Impact |
|------------------|--|--|
| Himachal Pradesh | Non-biodegradable plastics Bags and Disposable plastic products | Significant decrease in plastic pollution |
| Karnataka | Plastic bags | Plastic bags continue to be both available and commonly used |
| Punjab | Single-use plastic carry bags and containers | |
| Haryana | Plastic Carry bags | Limited because of poor enforcement |
| Kerala | Plastic bags <50µ | |
| West Bengal | Plastic bags <40µ and blanket ban in certain areas | Plastic bags are still commonly used. Implementation is limited |
| Sikkim | Plastic wrappers, plastic bags and disposable Styrofoam | Although plastic bags are still common (used by 34% of shops) the majority switched to paper bags or newspaper (66%) |
| Delhi | Ban on all kinds of disposable plastics | Limited because of poor enforcement. |
| Maharashtra | Plastic carry bags, PET bottle (less than 200 ml), Disposable items, Decoration Item | |

Source : Industry Perspective on Single use plastic ..The All India Plastic Manufacturer Association

Average plastic waste generation in India (tonnes per day)

4,059.18

Average plastic waste share in municipal solid waste in India

6.92%

Policy Highlights – Maharashtra

| Document | Title/ Name of policy | Issuing agency | Date/ year |
|--------------|--|--|-----------------------------|
| Ordinance | Maharashtra Non Biodegradable Garbage (Control) Ordinance | Governor of Maharashtra | 27th February 2006 |
| Act | Maharashtra Non Biodegradable Garbage (Control) Act | Government of Maharashtra | 21st April 2006 |
| Circular | Implementation of Maharashtra Plastic carry bags (Manufacture and Usage Rules) 2011- 50 Microns | Maharashtra pollution Control Board | 14 th March 2011 |
| Notification | Maharashtra Plastic and Thermocol Products (Manufacture, Usage, Sale, Transport, Handling and Storage) Notification, 2018 | Environment Department, State of Maharashtra | 23rd March 2018 |
| Notification | Notification for Amendment to Maharashtra Plastic and Thermocol Products (Manufacture, Usage, Sale, Transport, Handling and Storage) Notification, 2018 | Environment Department, State of Maharashtra | 11th April 2018 |
| Notification | Notification for Ammendment to Maharashtra Plastic and Thermocol Products (Manufacture, Usage, Sale, Transport, Handling and Storage) Notification, 2018 | Environment Department, State of Maharashtra | 14th June 2019 |
| Notification | Notification for Ammendment to Maharashtra Plastic and Thermocol Products (Manufacture, Usage, Sale, Transport, Handling and Storage) Notification, 2018 | Environment Department, State of Maharashtra | 30th June 2018 |

Plastic ban: Despite 3-month relief, 99% of manufacturers not following rules, says Maharashtra minister

Bhavika Jain & Chittrajan Tembkar | TNN | Updated: Oct 5, 2018, 10:59 IST

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Maharashtra environment minister Ramdas Kadam

MUMBAI: Environment minister Ramdas Kadam said during Monday's raids in the state, it was found that nearly 99% of manufacturers had not yet created a buyback mechanism nor found recycling solution despite getting a three-month relief (up to September 30)

As per the latest June 30 notification, the state government had asked companies to look for solutions to

to use of plastic. E-commerce platforms were told to find eco-friendly packaging for deliveries within the state in three months while manufacturers who use tetra and multi-layered packaging (for instance chips and snacks) were asked to put recycling and collection mechanism by September 30. "The deadline is up but got favourable response from any of the companies. So, we will initiate action," said a senior environment department official.

A spokesperson of PepsiCo India said that the company has taken adequate steps. They are setting up reverse vending machines, collection points and collection centres for

Times of India ,Oct 5, 2018

Home / Mumbai News / Nine months on, plastic bags still in use in Mumbai's markets

Nine months on, plastic bags still in use in Mumbai's markets

A member of the civic body's blue squad stated that despite initiating action, vendors and consumers continue to use plastic bags

MUMBAI Updated: Mar 25, 2019 00:41 IST
ht Steffy Thevar Hindustan Times



Hindustan Times ,Mar 25, 2019

South & Central Asia

Mumbai Scrambles to Cope with Ban on Single-Use Plastic

By Anjana Pasricha June 27, 2018 12:09 PM



Plastic bottles are dumped on the wayside in the northern state of Himachal Pradesh, India. The menace of plastic pollution has spread to the countryside and remote hills.

The state-wide plastic ban in Maharashtra came into effect from [unclear]
Nine months after the state-wide plastic ban, vendors and consumers continue to be in circulation at markets in Mumbai, says a member of the Brihanmumbai Municipal Corporation.

CHILD MARRIAGE



The World

NEW DELHI, INDIA - Supermarkets, food delivery outlets and street vendors in Mumbai are scrambling to replace plastic bags, containers and bottles as authorities impose a sweeping ban on single use plastic items in India's biggest city.

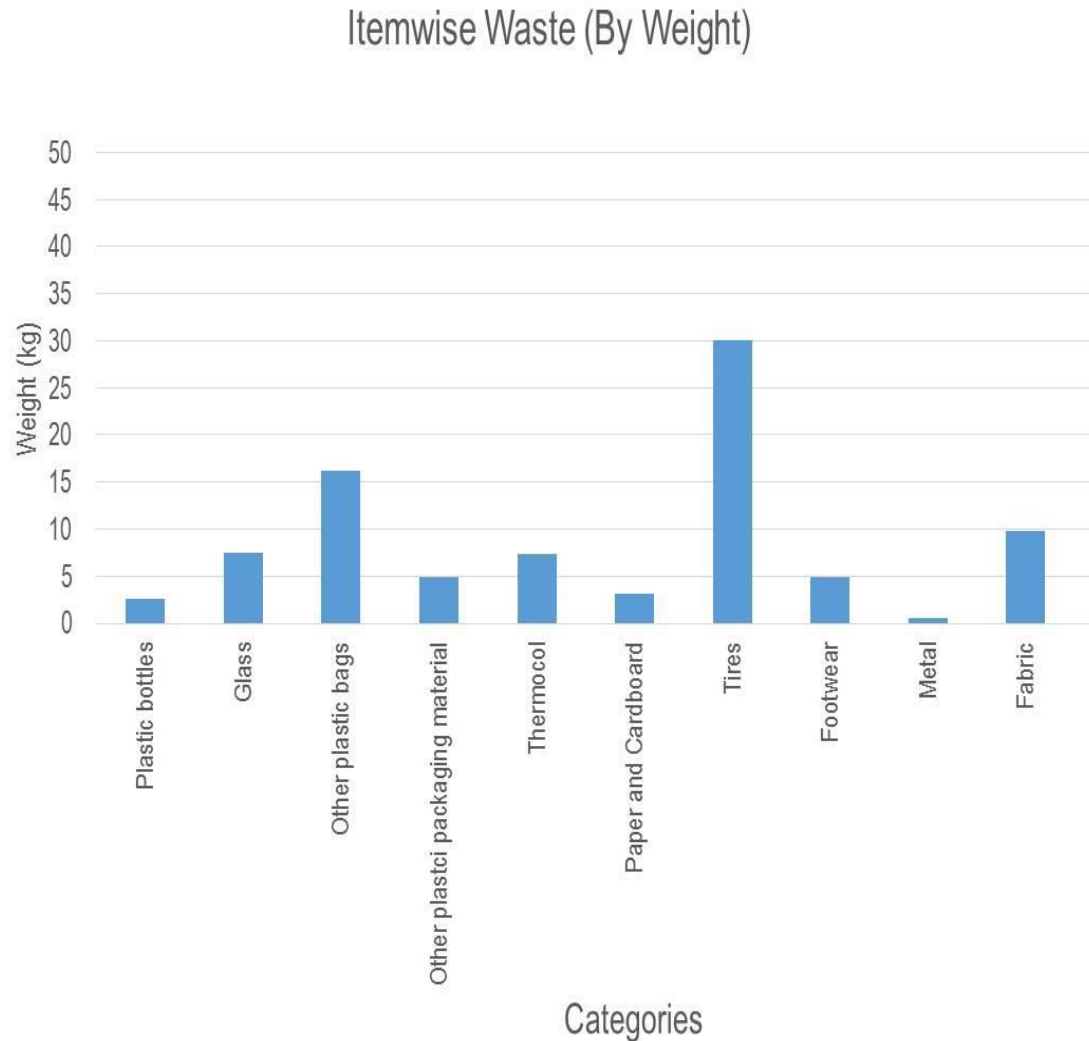
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Segregation And Characterization Of Plastic Waste From Mangrove area (Sagar Vihar , Navi Mumbai on 2nd November, 2019)



Total Waste collected : 281 kg waste / from 1000sq feet area



11 Different Types of waste was collected

Segregation And Characterization Of Plastic Waste From Chimbai Beach, Mumbai on 3rd December, 2019.



Declared as Mumbai 's Dirtiest Beach

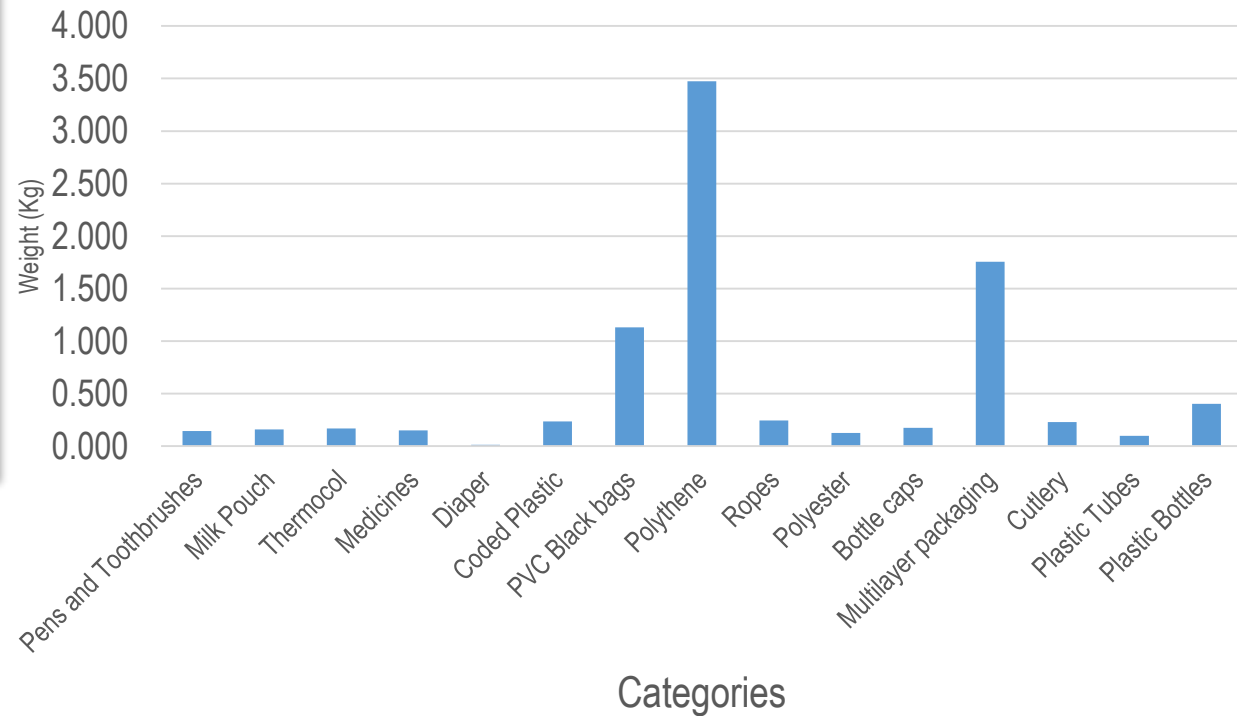
Located along the coastline of Bandra, this beach has become a
Dumping Ground for plastic and other city waste

Total Waste collected : 126.65 kg Waste /4000sq feet



15 Different Types of waste was collected

Item wise Plastic Waste (By Weight)



How can we work together??

1. Describe Your Experience With Plastic Pollution
2. Strengths, Limitations and Gaps Regarding Policies On Plastic.
3. How Would You Contribute To the Project and the Road Map to be developed.

Way Forward



Discussion
and White
paper

Request to
Develop
Road Map

*To be submitted to the
Hon'ble Chief Minister ,
Maharashtra*

Agenda

Round Table Discussion

Plastic Pollution and Role of Stakeholders

Date: 23 December, 2019, Time: 11:00 AM- 1 PM

Venue: Management Council, University of Mumbai, 1st Floor, Fort, Mumbai

Chaired by Prof. Suhas Pednekar, Vice Chancellor , University of Mumbai

and

Co-chaired by Mr. G. S. Gill (I.A.S.), Senior Advisor, TERI

| | |
|--|--|
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| and | |
| Co-chaired by Mr. G. S. Gill (I.A.S.), Senior Advisor, TERI | |
| | |
| 10.30am - 11.00 am | Registration |
| | |
| 11.00am -11.10am | Welcome, Project Introduction and Objectives. |
| 11.10am- 11.15am | Rolling out of Rethink Plastic App – Beta Version |
| 11.20am-12.40pm | Round Table discussion |
| | Topics to be discussed |
| | 1. Plastic Pollution and its Impacts |
| | 1. Plastic waste problem and Government Policies on Plastics in Maharashtra: Special emphasis on Mumbai |
| | 1. Ground realities of plastic pollution: experiences of stakeholders |
| | 1. Way Forward- |
| 12.40pm -12.55pm | Feedback and conclusion by the Chair |
| 12.55pm-1.00pm | Vote of thanks |
| 2 hours | Total time |
| Lunch | |

THANK - YOU

*“The earth has the plastic problem to solve,
To help her, today I resolve
To do my bit, small or large,
To keep plastic litter on land and oceans far
I pledge to practice the 8 R’s- Rethink, Refuse, Reduce,
Recycle, Repair, Re-gift, Recover, and Reuse.
And stop using plastic meant for single use”.....*

Vaishnavi Barthwal, TERI