





National Policy Workshop Webinar Series

Countermeasures for Riverine and Marine Plastic Litter in India

12 -22 May 2020

Session 2: Community Perceptions and behavioral aspects for plastic management and promotion of countermeasures to address

Perception And Behaviour Towards Use Of Plastic And Its

Management

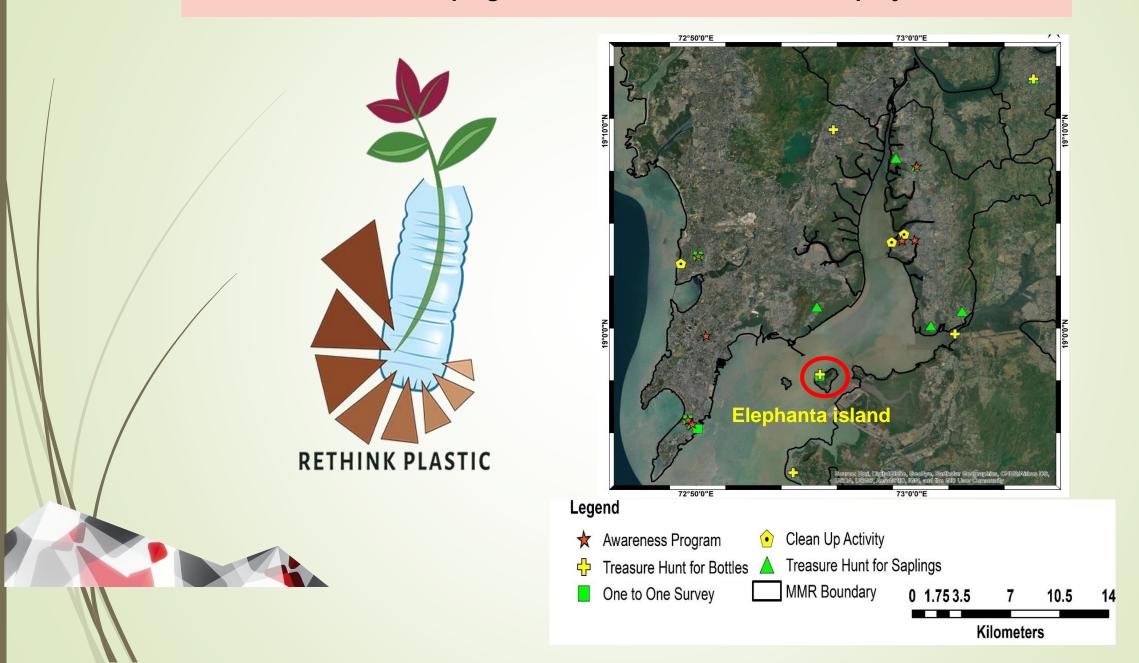
Mumbai Story



Project Time trame : October 2019- March 2020 Implemented by

Presented by:
Mr. Manish B. Asodekar,
Research Associate, TERI
Date: 14th May 2020

TERI's Campaign under the Counter measures project



Summary Part 1



Awareness and Training of Trainers

>75 Trainers through these programs

35 Trainers conducted **17** awareness programmes



Treasure Hunt for Bottles and Saplings



>700 saplings
collected through
Treasure Hunts
and planted in
waste plastic
bottles



Commitment for >250 saplings through 'Rethink Plastic' App



in Mangrove, Beach, Island and Creek Ecosystems

- > 100 Volunteers
- >500 kg Mixed Waste collected



Round Table Discussion
30 experts from diverse domains

- > 2000 Pledge > 860 Perception
- > 860 Percopa





> 300 participants

Read full report at:

https://www.worldwetlandsday.org/displ

ay-

event?p_p_id=eventDisplay&eventEntryId =660400&redirect=https%3A%2F%2Fwwww.worldwetlandsday.org%2Fevents%23event660400

90.977 kg CO2 eq emissions avoided¹



By saving **7050** sheets of paper² by using Google Forms

Summary Part 2





Involving the differently abled

- 1 Braille Book
- 2 Touch and Feel Kits
 Adoption of 100 saplings by Helen
 Keller Institute of Deaf and Deaf blind, Navi Mumbai
- Participation in World Wetlands Day 2020





A Webpage for the campaign

https://www.teriin.org/project/rethinkplastic-unep-teri-joint-initiative-mumbairegion



4 Google forms – Perception Survey, Pledge, Feedback form Registration Sheet for World Wetland Day





1 Google links for survey , pledge, registration sheet and feedback form

For more details visit: https://www.teriin.org/project/rethink-plastic-unep-teri-joint-initiative-mumbai-region



Stakeholder Mapping

Academia



 Colleges affiliated to the University of Mumbai and NSS unit

Government



- **Local Municipal Corporations**
- Environment
- Department, Mantralaya Maharashtra Pollution Control **Board**

Research Institutes



- Indian Institute of Technology – Bombay
- Central Institute of Fisheries Education



Industries/Corporates

- Thane Belapur Industrial Association,
- IndusInd Bank,
- Hindustan Unilever.
- All India Plastic Manufacturers Association

Grass root Organizations



- Ferry Boat Owner's Association,
- Rag pickers,
- Islanders (locals of Elephants islands)

NGOs / Foundations



- Sagar Mitra Abhiyan
- **Jyoti Care Foundation**

Media



- Times of India
- **Hindustan Times**
- Sakal
- Maharashtra Times
- Loksatta
- E-papers

Differently abled



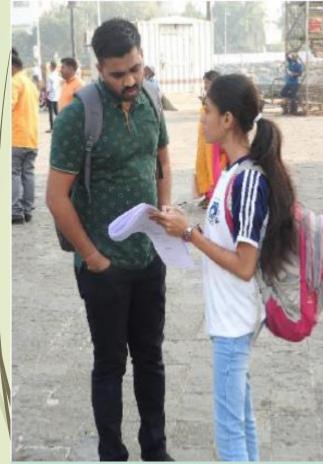
Helen Keller Institute of Deaf and Deaf blind



A. Overall Strategy And **Approach For** Understanding **Perception Towards** Plastic Use And Its Management

A1.Strategies and Tools of Engagement

1. Face to Face Interaction



- >200 respondents surveyed @
 - 1. Elephanta Islands
 - 2. Gateway of India
 - 3. Workshops and Events

2. Extensive use of social and electronic media

A. Mobile Videography (10 Nos.)

B. Google form and QR code (Perception Survey)
https://drive.google.com/open?id=1A-VksO-GT6tZGDOF2cBr90GrTp83wohCPfyAiWyNDbM



C, Link on Rethink Plastic Webpage



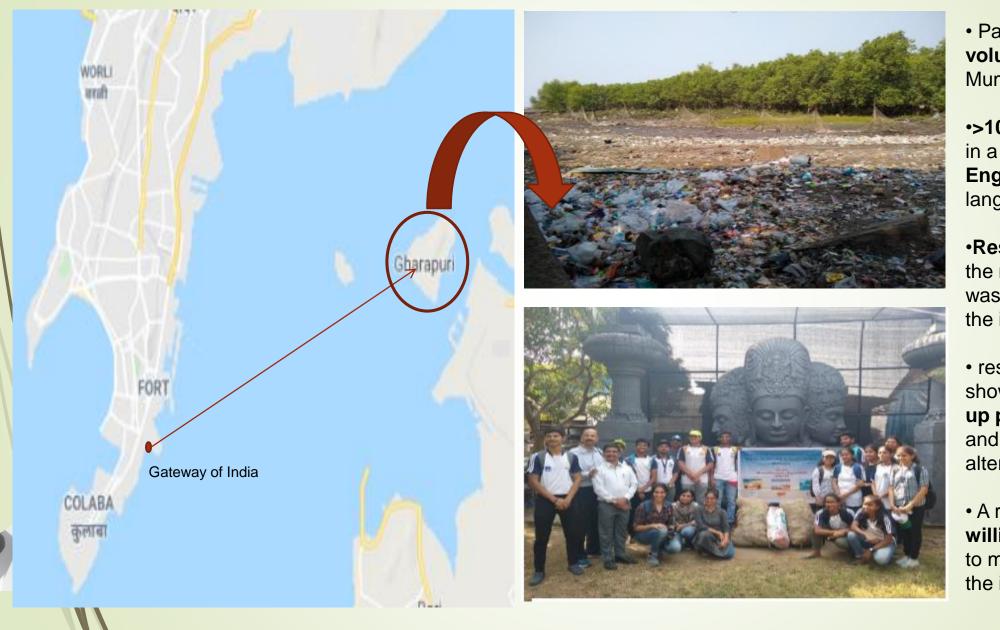
> 600 respondents surveyed

3.Reaching out to festivals



The standee was displayed at the **Kala Ghoda Festival** in Mumbai

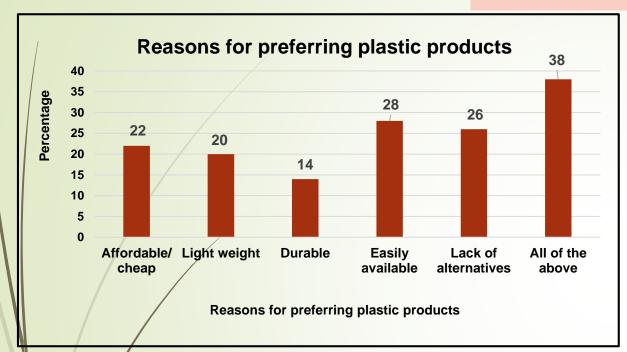
A2.Gateway of India and Elephanta Island: Case study



- Participants: 15 NSS
 volunteers from K.C. College,
 Mumbai
- •>100 respondents took part in a survey conducted in English and Marathi language.
- •Respondents stressed on the need for well established waste management system on the island
- restaurateur and shop owners showed a willingness to give up plastic items if suitable and easily available plastic alternative are available.
- A restaurateur even showed willingness to work with TERI to mitigate plastic problem on the island

A3.Perception towards Plastic

1. Use of Plastic



- Proper waste segregation and disposal is the main key to tackle waste problem including plastic waste
- It should be coupled with recycle and reuse and use of alternatives (an extent to which it would not become a burden on local resources)

As per the respondents

- Cannot completely avoid plastic use
- Even manufacturing of plastic alternatives would require huge resources such as wood, bamboo, metal





A3.Perception towards Plastic



- Need for housing societies to tie-up with plastic recyclers in the vicinity to promote proper segregation and management of plastic waste
- Collective efforts by the government, NGOs and citizens

A huge opportunity for making change in behavior.

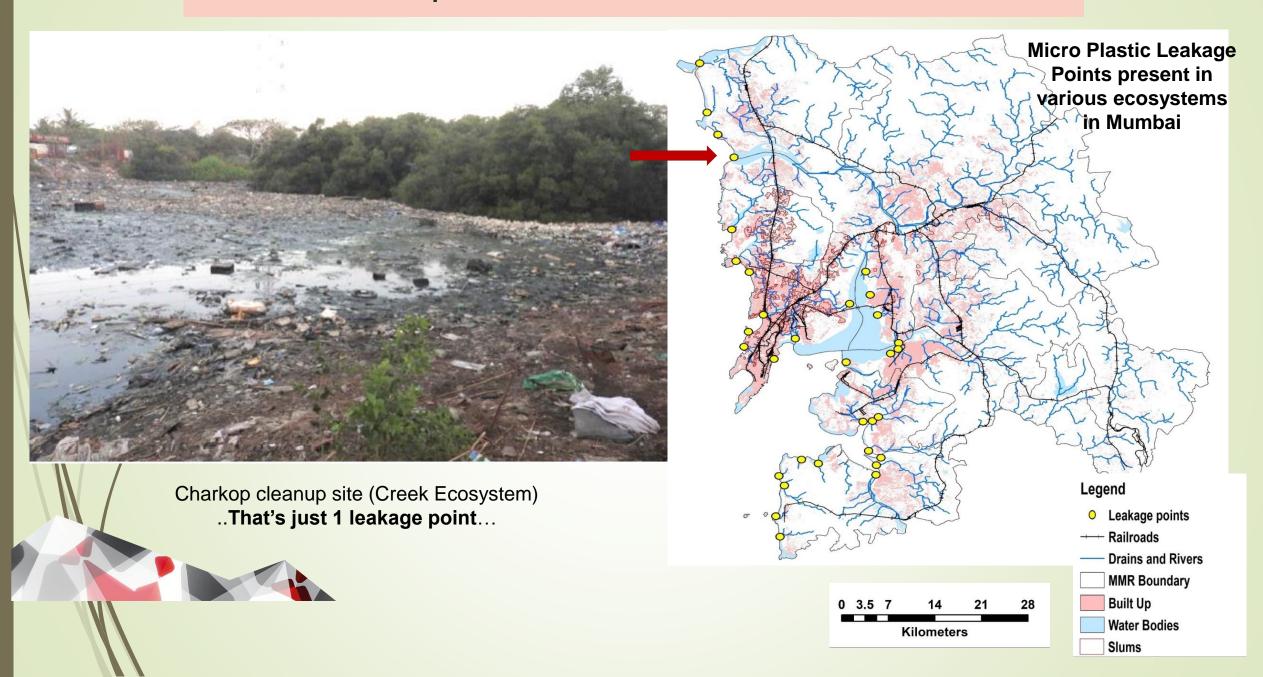
What can be done???

- Awareness through workshops/events
- Introduction and practicing waste segregation from school level
- Imposing heavy fines on plastic use especially single use plastic



B. TERI's approach to validate stakeholder behavior towards plastic pollution

B1.Cleanup drives to understand stakeholder behaviour





Volunteers during Chimbai beach cleanup at Bandra, Mumbai, 03.12.2019

NSS Volunteers during cleanup in mangroves during World Wetlands Day,2020 at Navi Mumbai

First hand reaction of Volunteers after participating in cleanup drives

- A sense of outrage seeing the Actual Ground Reality
- Took A Pledge To Not Use Single Use Plastic
- Committed Self To **Engage** In Such Activities Regularly (*A Group Of Students Actually Got Connected With A Group Of Mangrove Marshals Who Conducts Weekly Cleanup In Mangroves Of Vashi, Navi Mumbai).*
- Promised To **Share** their experience with other Stakeholders.



B2. Training and beyond...









TERI conducted

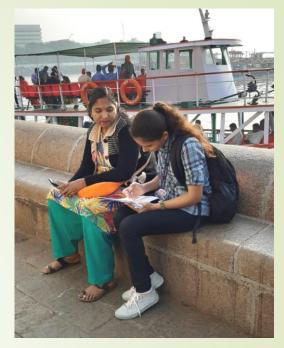
- **5** Awareness and sensitization workshops (520 participants)
- 3 TOTs created a batch of 78 trainers

Response received from stakeholders

- Out of 78, **35 trainers conducted 17 sessions** and trained other colleagues thereby created a chain of trained professionals and increased a scope of creating awareness among the youths.
- Same chain is to be continued further
- > 700 native saplings collected and planted in waste plastic bottles
- >300 participated in awareness activities during World Wetlands Day 2020 event
- >2000 waste plastic bottles were collected and given to the recyclers.
- Commitment towards avoiding single use plastic received from stakeholders from different fields

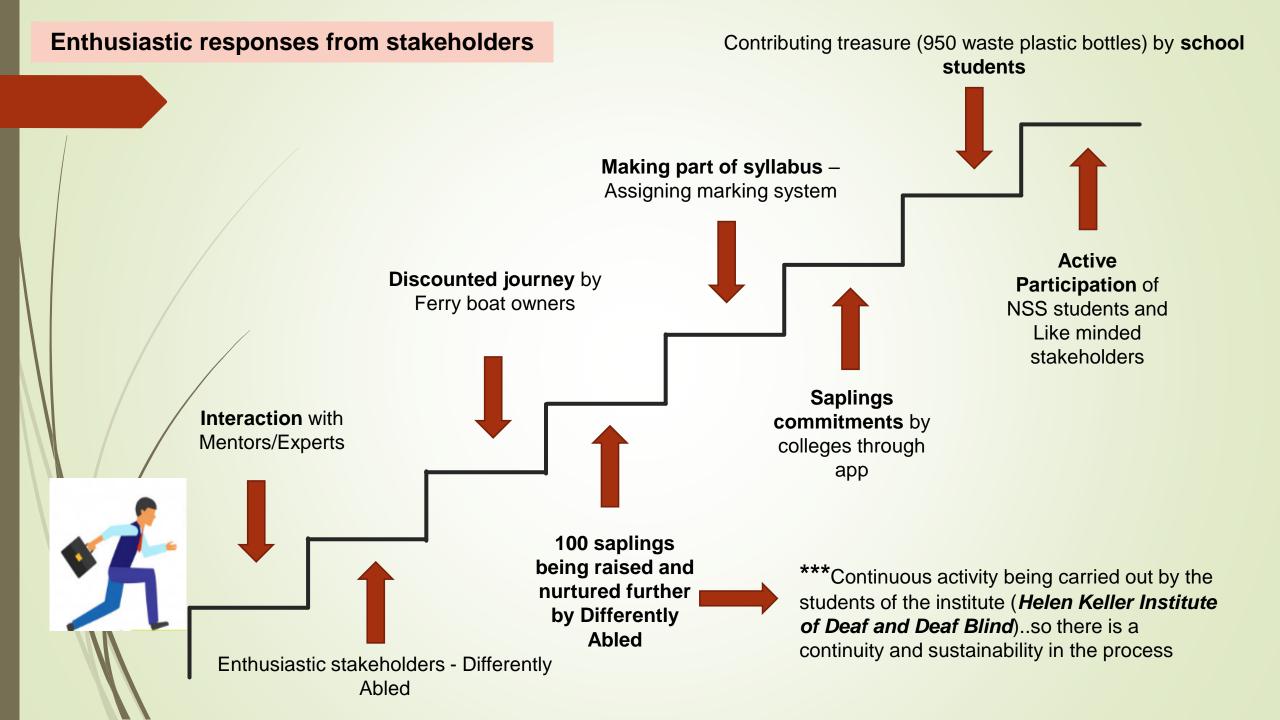












C. Towards making a concrete roadmap against plastic waste management

C1. Stakeholder Interaction



Stakeholders at the Round Table Discussion

Event: Round Table Discussion (23.12.2019)

Location: University of Mumbai campus, Fort, Mumbai

Theme: Plastic pollution and Role of Stakeholders

Chaired by: Hon'ble Vice Chancellor, University of Mumbai

Primary objectives:

- Initiate Policy dialogue
- understand the policy status in Maharashtra
- use inputs to develop roadmap

Around 30 stakeholders from different background discussed key points like

- Their Experiences/ Research Findings
- •Identification of Strengths And Loopholes in Existing Policies
- Suggesting Better Policy Interventions And Discussing Practical Action At The Individual/ Organizational Levels

C2. Discussion Highlights: Key Gaps/Improvements Needs To Be Addressed

Awareness and Data gaps

- Level of awareness
- Lack of Transparency in data availability

Research on Life Cycle Assessment of Plastics and Micro-plastic

- Innovation
- Focus on sustainability and environmental impact
- Lack of affordability and accessibility of the required technology

Policy dimensions

- Identifying hotspots
- Incentivize plastic recycling
- Prompt Implementation of bans and laws
- State wide Action Plan/Roadmap



Thank You

In case of queries/contact

m.asodekar@teri.res.in

