

## Promotion of Counter measures against marine plastic litter in Southeast Asia and India

A storyline is created in the form of photo-documentation to effectively depict the importance of the cleanup activity that was carried out at the mentioned place.

**Clean Up Site Name:** Charkop, Sector 7, Kandivali (W), Mumbai.

**State:** Maharashtra

**Country:** India

**Landmark:** Near Gorai Bridge

### 1. Location of the Clean Up:

- a. Location of the cleanup was selected as per the local hotspot consideration of site low lying area near creek surrounded by residential area on two sides and mangroves of two sides.
- b. An area of 22.7 X 13.9 feet was considered for the cleanup.
- c. The low lying area was made into a solid waste dumping place by the local residents.
- d. Latitude and Longitude – 19° 13' 21.2" N, 72° 49' 42.9" E

### 2. Time and Date:

- a. **Time** : 07.00 AM-9.30 AM
- b. **Date** : 2<sup>nd</sup> March 2020

Before organizing the cleanup activity, preliminary site surveys were conducted on 2-3 sites to understand the ground level scenario with respect to the waste especially plastic waste, feasibility of the cleanup activity. At this selected site for the cleanup, the residents were disposing their waste in the low lying area. During the high tides in monsoon season, the waste reaches the sea through the nearby Gorai creek. Under these current circumstances, this site was a potential waste leakage hotspot for plastic waste into the sea. Before starting the cleanup activity, an area of 22.7 X 13.9 feet was demarcated and around **59.00 Kg** of mixed waste (*excluding weight of gunny bags*) was collected from this area, with the help of volunteers.

## Flow of Photo-documentation

1. Site Photos with description
2. Introductory session
3. Volunteer group photos with Personal Protective equipment (PPE)
4. Marking and Measuring the Grid
5. Waste collection bag photos (numbered and labeled)
6. Waste Collection Activity by Volunteers
7. Weighing waste bags
8. Waste Segregation photos
9. Segregated Waste
10. Photos of weighing segregated waste bags
11. Before and After Scenario
12. Segregated waste disposal in MCGM's Waste collection vehicle
13. Group photo after activity

## Site Photos with Description



Picture No. 1: Low lying area in Charkop; the site for clean up

**Note:** *The low lying area in Charkop is situated near Gorai creek in North Mumbai. The most accessible area of the site was chosen for the clean-up activity.*

## Introductory session



Picture No. 2: Introductory session by Mr. Lalit Kamde, Assistant Director, Environment, NPC explaining the activities to the volunteers.

### Volunteer group photos with Personal Protective equipment (PPE)



Picture No. 3: Group photo of the volunteers wearing PPEs (pair of rubber gloves and mask).

### Grid measurement and demarcation

The grid was demarcated using bamboo sticks and white nylon string. The total grid area was **315.53 sq. ft.** (length: 22.7 ft and breadth: 13.9 ft)



Picture No. 4: Clean up area measurement and demarcation (top) and demarcated area (bottom)

**Waste collection bag photos (numbered and labeled)**

Total 8 bags (7 bags of mixed waste + 1 bag of woven bag waste) numbered for the activity.



Picture No. 5: Indexing and numbering of the gunny bags before the collection activity.

## Waste Collection Activity by Volunteers



Picture No. 6: The volunteers collecting the waste inside the grid; a group of 4-5 members collected waste in one gunny bag.



### Weighing of Waste bags

After waste collection from the grid, the gunny bags were weighed and the observations were documented. A total of **59 kg** (excluding weight of gunny bags) of waste was collected from the grid area.



Picture No. 7: Weighing of mixed waste collection bag

### Waste Segregation Photos (1 bag at a time)



Picture No. 8: Participants segregating mixed waste on blue sheet as per UNEP guidelines. In all, four bags full of waste were segregated due to time constraints.

### Segregated Waste in different Categories

The waste for each bag was first segregated into plastic and non-plastic waste. Later the plastic waste was further segregated in 16 categories of plastic and non-plastic waste.



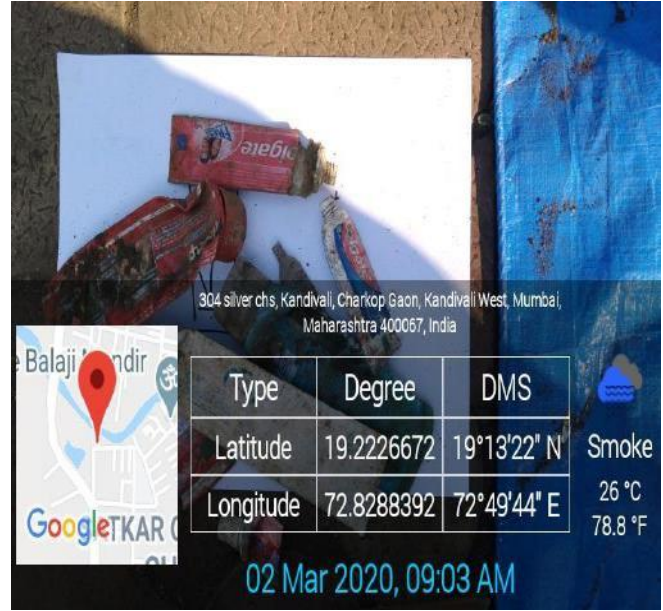
Picture No. 9: Waste is segregated in the categories given under the UNEP Guidelines



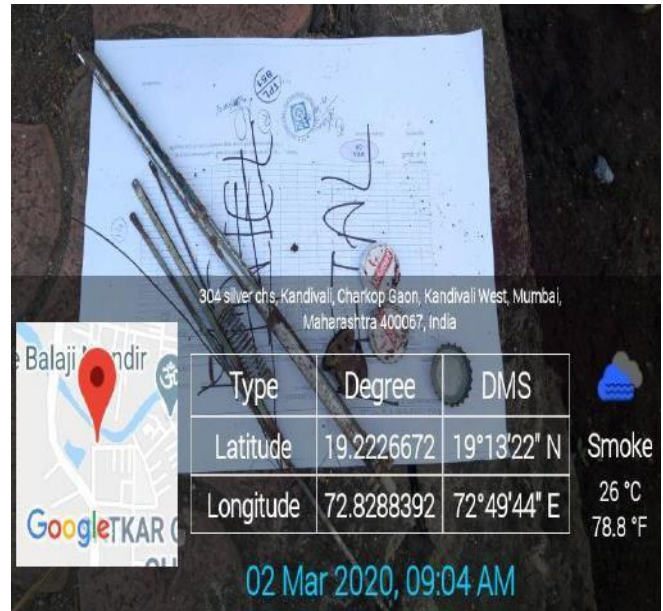
Picture No. 10: Milk and Water pouch waste (left) and Multilayer packaging (right)



Picture No. 11: Waste Grocery bags (left) and cigarette butts (right)



Picture No. 12: Waste medicine strips (left) and used toothpaste (right)



Picture No. 13: Woven bags (left) and metal waste (right)

### Weighing of segregated waste



Picture No. 14: The segregated waste in different categories was weighed on the digital scale for the study.

### Before and After Scenario



Picture No. 15: Before and after scenario at Cleanup site.

### Segregated waste disposal in MCGM's Waste collection vehicle



Picture No. 16: Waste disposal in MCGM's Ghanta gadi (waste collection vehicle)

### Group Photo after completion of activity



Picture No. 17: The final group photo of volunteers and staff after the completion of activity.





**Thank You**