

United  
Way



United Way Mumbai



Samarth Bharat Vyaspeeth

# MAHIM RETI BUNDER & MAHIM CAUSEWAY BEACH

FEBRUARY **2025**

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# PRESENT STATUS

The growing urbanization in Mumbai, which is the economic capital of India, has had adverse effects on the sea, creeks, forests, rivers, and other forms of biodiversity. Due to the massive increase in population along the coastline and creeks of Mumbai, both of these elements have started to become polluted

Several non-biodegradable substances have primarily contributed to this water pollution. Against this backdrop, it has become crucial to responsibly use such non-biodegradable materials and ensure their proper disposal. And hence there is a priority need to collect, classify and scientifically dispose of the non-degradable materials floating on the shores of Mahim Retibandar and causeway.

# MEASURES

UNITED WAY MUMBAI, a non-government organization which is a society registered under the Society Registration Act, 1860

and a trust registered the Maharashtra Public Trusts Act, 1950

Samarth Bharat Vyaspeeth, Samarth Bharat Vyaspeeth is section 8 company Non-Profit Organization working in field of waste management and education for under privileged street children, and SBV is engaged in the collection and disposal/recycling of plastic waste.

To prevent water pollution, both the social organizations United Way Mumbai and Samarth Bharat Vyaspeeth, have come together and formulated an action program to implement the Beach Cleanliness Mission. Under this initiative, every day, through 13 safai sathis, a minimum of 7 hours is dedicated to collecting non-biodegradable materials from the coastline. Afterward, these materials are sorted at the waste management center under Samarth Bharat Vyaspeeth Project Revitalisation, where they are disposed of in a scientifically appropriate manner



# ACTION

Mahim Retibandar and Causeway are adjacent to each other and connected, covering a total area of approximately 4 kilometers.

Based on the timing of the tides, it has been observed that collection activities take place at different times of the day at both locations.

Accordingly, the collection campaign is carried out at Mahim Sandbar from 8 AM to 1 PM, and at Causeway from 2 PM to 4:30 PM.



Collection is done every day of the week. During the collection process, different types of waste are gathered and sorted. Items like plastic bags, packaging plastics, cartons, glass, hard plastics, cloth, and other materials are collected. Afterward, the collected waste is sent daily to the waste management center under Samarth Bharat Vyaspeeth's Project on Revitalisation.



# PROCESS



01

Once the waste reaches the waste management center under Samarth Bharat Vyaspeeth project

Revitalisation, it is first spread out in the designated area for sundrying. This process typically lasts for about three to four days to allow the moisture to evaporate. Every morning and afternoon, the waste is turned over to ensure that the moisture in every part of the waste is effectively removed during sundrying.

02

After the waste has dried, it is sorted into different categories, such as single-use plastics, multilayer plastics, hard plastics, glass, and non-recyclable waste. The single-use plastics and multilayer plastics are processed in a dust remover machine to remove any sand or other debris. The cleaned plastics are then sent to the baling machine, where they are compacted into bales and sent for recycling.

03

Hard plastics and glass are manually cleaned by staff using cleaning brushes to remove any attached sand, and then they are placed in separate bags and sent for recycling. Non-recyclable waste is sent to the municipal processing center for appropriate disposal.



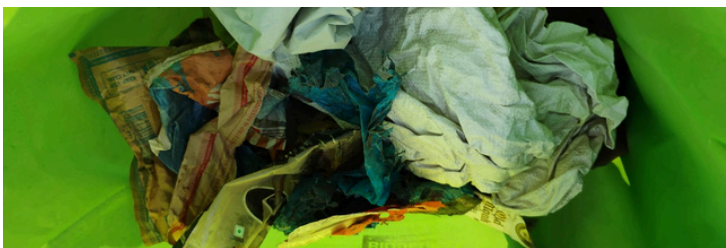
# SAFAI DOOT STORY

- Name: Pooja Ramu Pawar
- Age: 22
- Education: Fourth Grade
- Village: Parbhani
- Language: Pardhi

Our village has agriculture, but we do not get much yield from the farm. It has been eight years since we abandoned farming, and we moved to Mumbai. Since coming to Mumbai, we have been thinking about what work to do. Just like everyone else was doing the work of cleaning drains, we too used to accompany my dad and mom for work. My father works in drain cleaning, and that work is mostly seasonal, meaning it primarily happens before the monsoon and such. However, my father works only for that; after that, he stays home. Then, my mother and I do cleaning work here in United and also clean the beach.

There are six members in our family: my mom, dad, two brothers, me, and one sister. My two brothers are pursuing education; one is in the tenth grade and the other in the seventh grade. They are interested in education, but due to financial circumstances, their education has not been sufficient. That is why I started this work to help with their education. Even though I could not complete my education, I am determined to ensure my brothers study and succeed. Through this work, I am trying to change my lifestyle and help my brothers pursue higher education.

# SPECIAL ACTIVITY DONE – COMMUNITY DRIVE & CALENDAR DISTRIBUTION



# United way Mumbai & Samarth Bharat Vyaspeeth Beach cleanup drive Month of February 2025 Data

## Data

### United way Mumbai & Samarth Bharat Vyaspeeth Beach cleanup drive Month of February 2025 Data

Sr. No	Date	Total Segregation Waste	Mix Plastics	Gunny Bags	Pet Bottles	Glass	Hard Plastics	Thermocol	Shoes	Rejected Waste	Sand	Moisture
1	1-Feb-25	134.8										
2	1-Feb-25	758.01										
3	2-Feb-25	126										
4	2-Feb-25	822.5										
5	3-Feb-25	118.56										
6	3-Feb-25	834.6										
7	4-Feb-25	114.21										
8	4-Feb-25	848.03										
9	5-Feb-25	150.6										
10	5-Feb-25	855.14										
11	6-Feb-25	126.04										
12	6-Feb-25	876.96										
13	7-Feb-25	131.8										
14	7-Feb-25	894.1										
15	8-Feb-25	130.6										
16	8-Feb-25	902.12										
17	9-Feb-25	132.2										
18	9-Feb-25	908.03										
	1 February to 9 February 2025 Total	8864.3	2659.29	620.5	354.5	531.8	487.5	132.9	265.9	2482	797.7	532.21
19	10-Feb-25	135.15										



# United way Mumbai & Samarth Bharat Vyaspeeth Beach cleanup drive Month of February 2025 Data

20	10-Feb-25	916.04										
22	11-Feb-25	128.3										
23	11-Feb-25	921.1										
24	12-Feb-25	131.23										
25	12-Feb-25	928.6										
26	13-Feb-25	134.02										
27	13-Feb-25	937.13										
28	14-Feb-25	130.4										
29	14-Feb-25	923.13										
30	15-Feb-25	133.15										
31	15-Feb-25	928.06										
32	16-Feb-25	135.1										
33	16-Feb-25	931.12										
	10 February to 16 February 2025 Total	7412.49	2371.9	444.74	296.4	370.6	518.7	111.18	222.3	2186.6	592.9	297.17
34	17-Feb-25	132.5										
35	17-Feb-25	937.08										
36	18-Feb-25	136.12										
37	18-Feb-25	948.26										
38	19-Feb-25	134.4										
39	19-Feb-25	951.12										
40	20-Feb-25	137.1										
41	20-Feb-25	953.07										
42	21-Feb-25	139.18										
43	21-Feb-25	961.2										

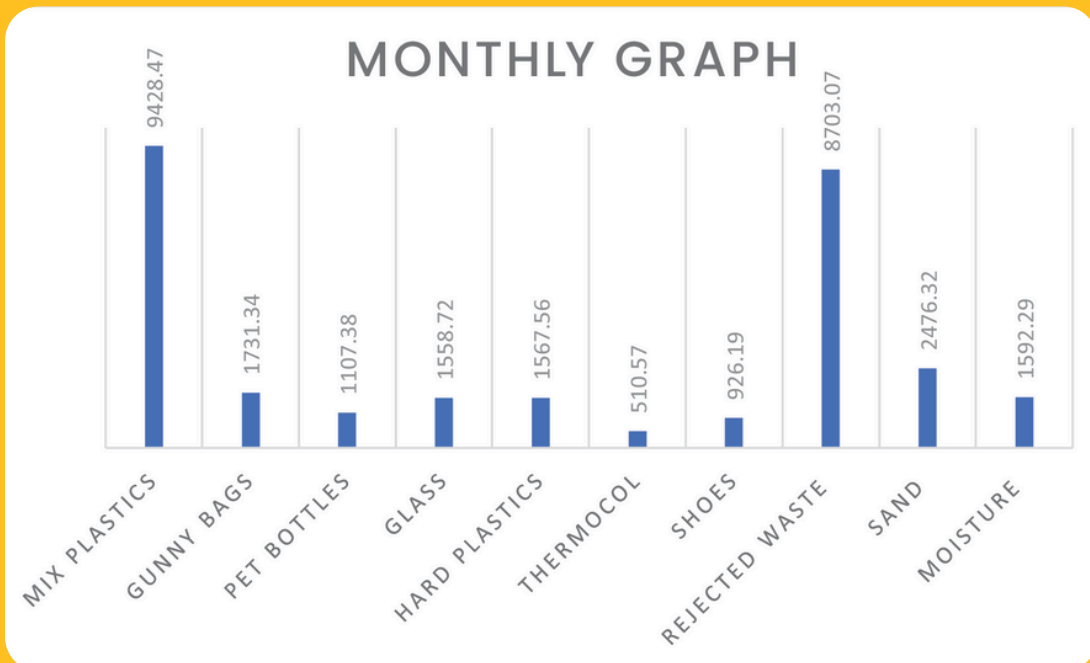


# United way Mumbai & Samarth Bharat Vyaspeeth Beach cleanup drive Month of February 2025 Data

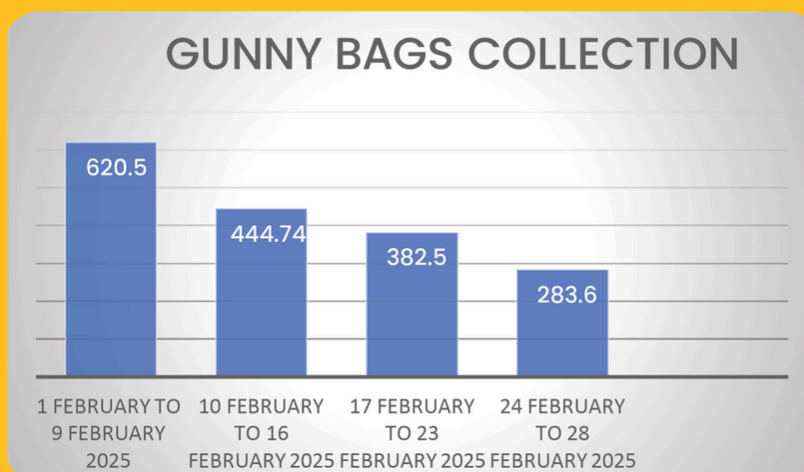
44	22-Feb-25	140.03										
45	22-Feb-25	968.16										
46	23-Feb-25	137.6										
47	23-Feb-25	976.04										
	17 February to 23 February 2025 Total	7651.86	2525.11	382.5	229.55	344.3	306.07	153.03	267.8	2219.03	688.6	535.87
48	24-Feb-25	141.12										
49	24-Feb-25	984.9										
50	25-Feb-25	143.01										
51	25-Feb-25	989.23										
52	26-Feb-25	140.3										
53	26-Feb-25	994.8										
54	27-Feb-25	143.5										
55	27-Feb-25	998.12										
56	28-Feb-25	141.2										
57	28-Feb-25	997.08										
58	24 February to 28 February 2025 Total	5673.26	1872.17	283.6	226.93	312.02	255.29	113.46	170.19	1815.44	397.12	227.04



# Monthly Graph

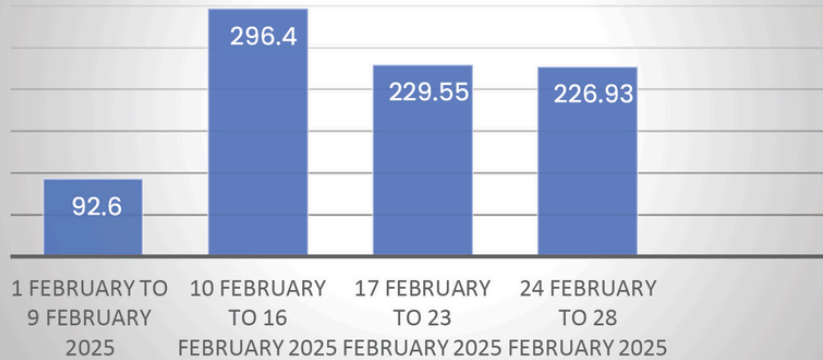


Data  
Analysis

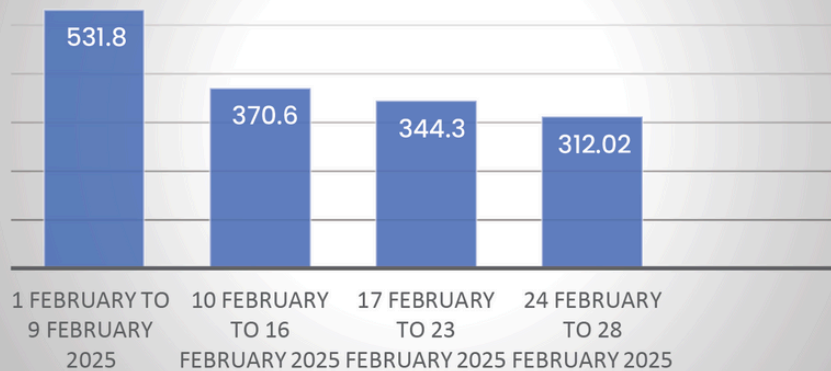


# Data Analysis

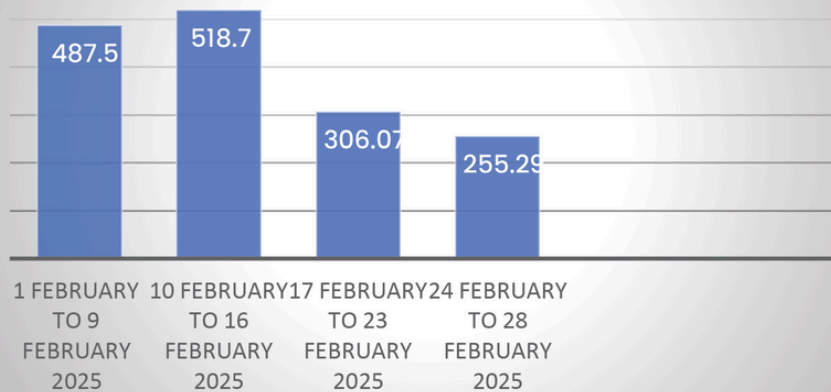
## PET BOTTLES COLLECTION



## GLASS

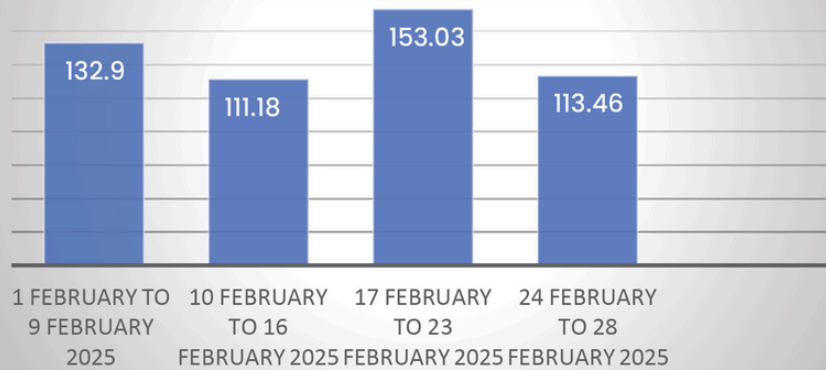


## HARD PLASTIC

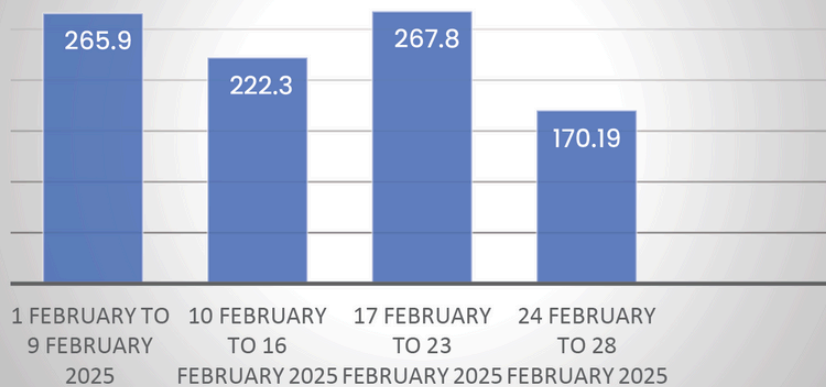


# Data Analysis

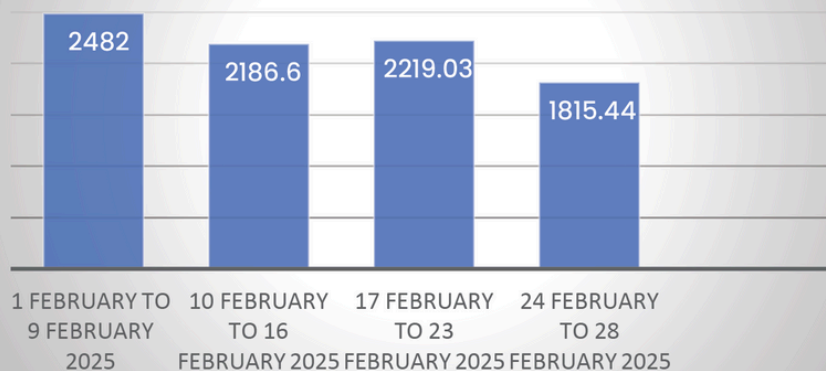
## THERMOCOL



## SHOES

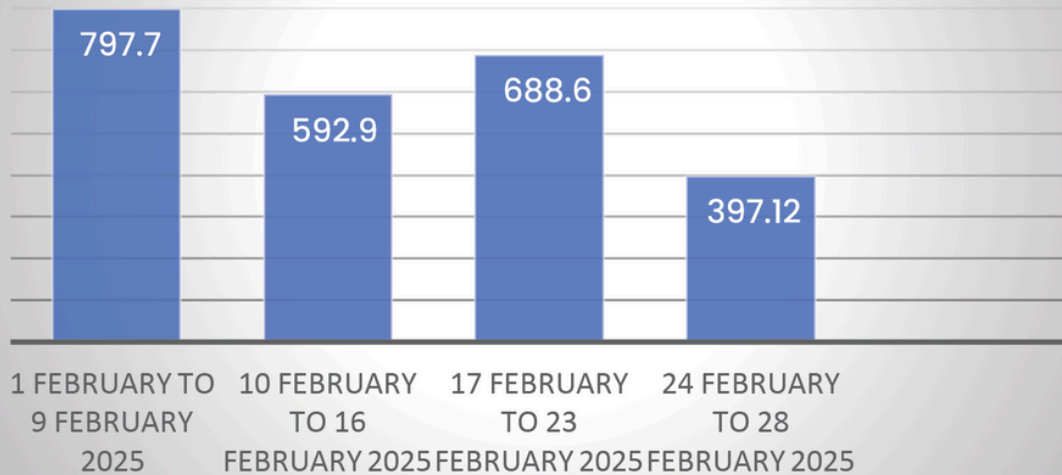


## REJECTED WASTE

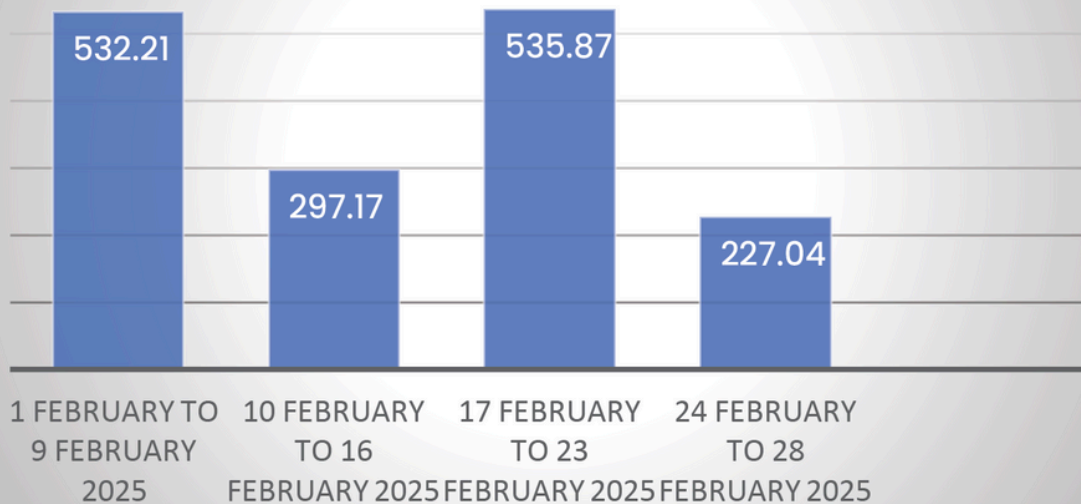


# Data Analysis

## SAND



## MOISTURE



# FINDINGS

Collection Span – 1ST February 2025 to 28th February 2025

Total Working Days – 28

Total Safai Sathis - 13

Total Holidays – 0

Total Working Hours -  $28 \times 7 = 196$  Hrs.

Total waste collected – 29601.91 KG

Waste collection per hour – 151.03 KG

Waste collection per hour per Safai Sathis – 11.61 KG

Total Mix Plastics – 9428.47 KG

Total Gunny Bags – 1734.31 KG

Total Pet Bottles – 1107.38 KG

Total Glass- 1558.72 KG

Total Hard Plastics- 1567.56 KG

Total Tharmocol- 510.57 KG

Total Shoes- 926.19 KG

Rejected Waste – 8703.07 KG

Sand – 2476.32 KG

Moisture- 1592.29 KG



## PERCENTAGE ANALYZING

Mix Plastics –	31 %
Gunny Bags -	5.8 %
Pet Bottles -	4.7%
Glass -	5.2%
Hard Plastics -	5.2%
Tharmocol –	1.7 %
Shoes –	3.1 %
Rejected Waste -	29.4%
Sand -	8.3%
Moisture -	5.3%

## REMARKS

Of the total collected waste, 51.5% was found to be plastic waste.

Due to the ebb tide, a large amount of sand enters the waste, and as a result, the proportion of sand in the collected waste was also significant, amounting to 8.3%.

A considerable amount of waste that cannot be recycled, such as waste thrown into the sea, creeks, and drainage systems, was found to make up nearly 29.4% of the total waste.

To reduce the sand content, measures have been implemented to shake off the sand while collecting the waste. Efforts will be made in the future to further reduce this percentage.

Among the plastic waste, nearly 60% was found to be packaging material.

Prior to the collection, this waste had been floating in the waters of the creek and sea for at least 3 to 4 months. The packaging date and expiry date found on the plastic bags indicated that these plastics had been polluting the water for around 2 to 4 months before washing up on the shore. This indicates that the plastic waste had been contributing to water pollution for a significant period of time.