

United Way Mumbai



Samarth Bharat Vyaspeeth

MAHIM RETI BUNDER & MAHIM CAUSEWAY BEACH

MARCH 2025



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

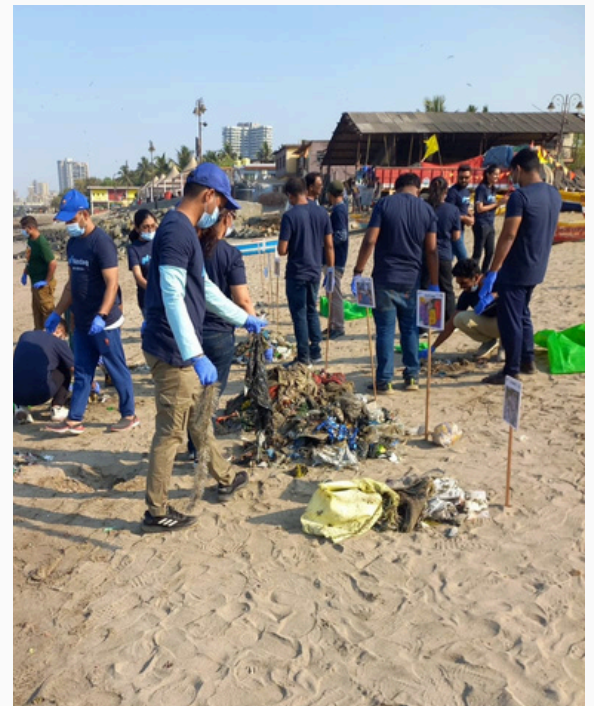
UNITED WAY MUMBAI, a non-government organization which is a society registered under the Society Registration Act, 1860 and a trust registered the Maharashtra Public Trusts Act, 1950

Samarth Bharat Vyaspeeth, Samarth Bharat Vyaspeeth is section 8 company Non-Profit Organization working in field of waste management and education for underprivileged 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.



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.



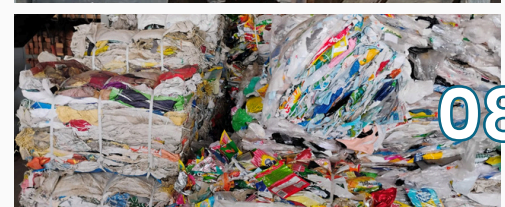
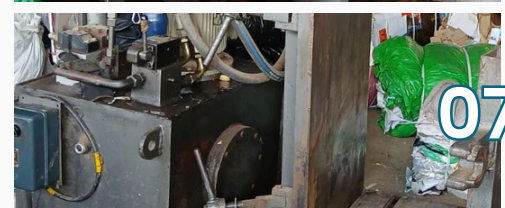


PROCESS

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.

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.

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: Asha Bansi Pawar

Age: 22

Education: no

Family Members – 6

Village: Parbhani

Language: Pardhi

She was doing this work for the last 10 years. She was working as a drain cleaner. She was also doing soil work. Now she has been working to Mahim beach cleaning project from last 6 months with united way Mumbai and Samarth Bharat vyaspeeth .

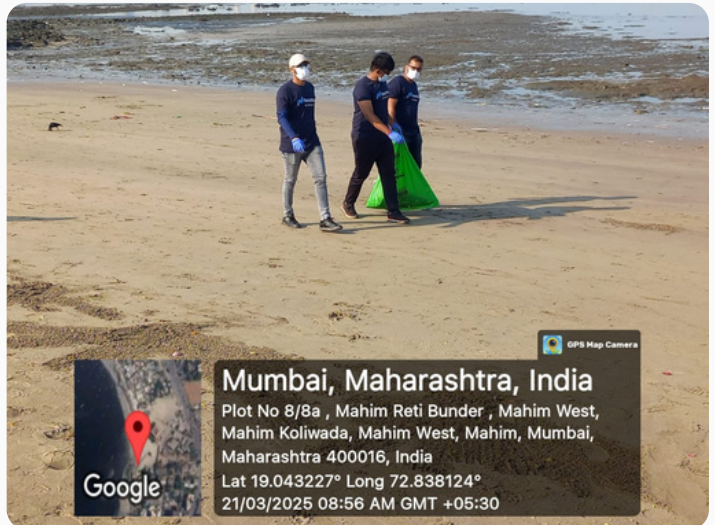
This work is done from 8 am to 4 pm. Her husband goes to work on a "chicken cart". Earlier, both the husband and wife was doing the work of cleaning drains. She has to do this work due to lack of education. After understanding the importance of education, she decided to educate her children

Asha's family has a total of 6 people. She, her husband and 4 children are her family. 2 daughters and 2 sons. 1 daughter is in 7th standard, 1 daughter is in 4th standard, 1 son is in 2nd standard and 2nd son is in 1st standard. She wants her children to get educated and work in a good place.

RECYCLE

SPECIAL ACTIVITY DONE

MAHIM CAUSEWAY & RETIBUNDER CLEANUP DRIVE





UNITED WAY MUMBAI &
SAMARTH BHARAT VYASPEETH
BEACH CLEANUP DRIVE
MONTH OF MARCH 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 March 2025	144.01										
2	1 March 2025	999.15										
3	2 March 2025	146.7										
4	2 March 2025	1003.21										
5	3 March 2025	148.02										
6	3 March 2025	1009.5										
7	4 March 2025	151.4										
8	4 March 2025	1017.23										
9	5 March 2025	153.5										
10	5 March 2025	1026.08										
11	6 March 2025	152.12										
12	6 March 2025	1035.9										
13	7 March 2025	154.3										
14	7 March 2025	1046.16										
15	8 March 2025	156.1										
16	8 March 2025	1059.01										
17	9 March 2025	152.7										
18	9 March 2025	1066.12										
		10621.16										
19	10 March 2025	154.21	3823.61	743.4	424.8	637.27	318.6	212.4	159.3	3398.7	796.58	106.5
20	10 March 2025	1074.08										
22	11 March 2025	155.0										
23	11 March 2025	1086.7										
24	12 March 2025	153.15										
25	12 March 2025	1089.2										
26	13 March 2025	154.06										
27	13 March 2025	1092.13										
28	14 March 2025	0										
29	14 March 2025	0										
30	15 March 2025	156.2										
31	15 March 2025	1104.7										
32	16 March 2025	153.1										
33	16 March 2025	1113.4										
	10 March to 16 March 2025 Total	7485.94										
34	17 March 2025	155.2										
35	17 March 2025	1120.12										
36	18 March 2025	152.06										
37	18 March 2025	1126.7										
38	19 March 2025	153.26										
39	19 March 2025	1134.5										
40	20 March 2025	154.01										
41	20 March 2025	1141.18										
42	21 March 2025	147.3										



UNITED WAY MUMBAI & SAMARTH BHARAT VYASPEETH BEACH CLEANUP DRIVE

MONTH OF MARCH 2025 DATA

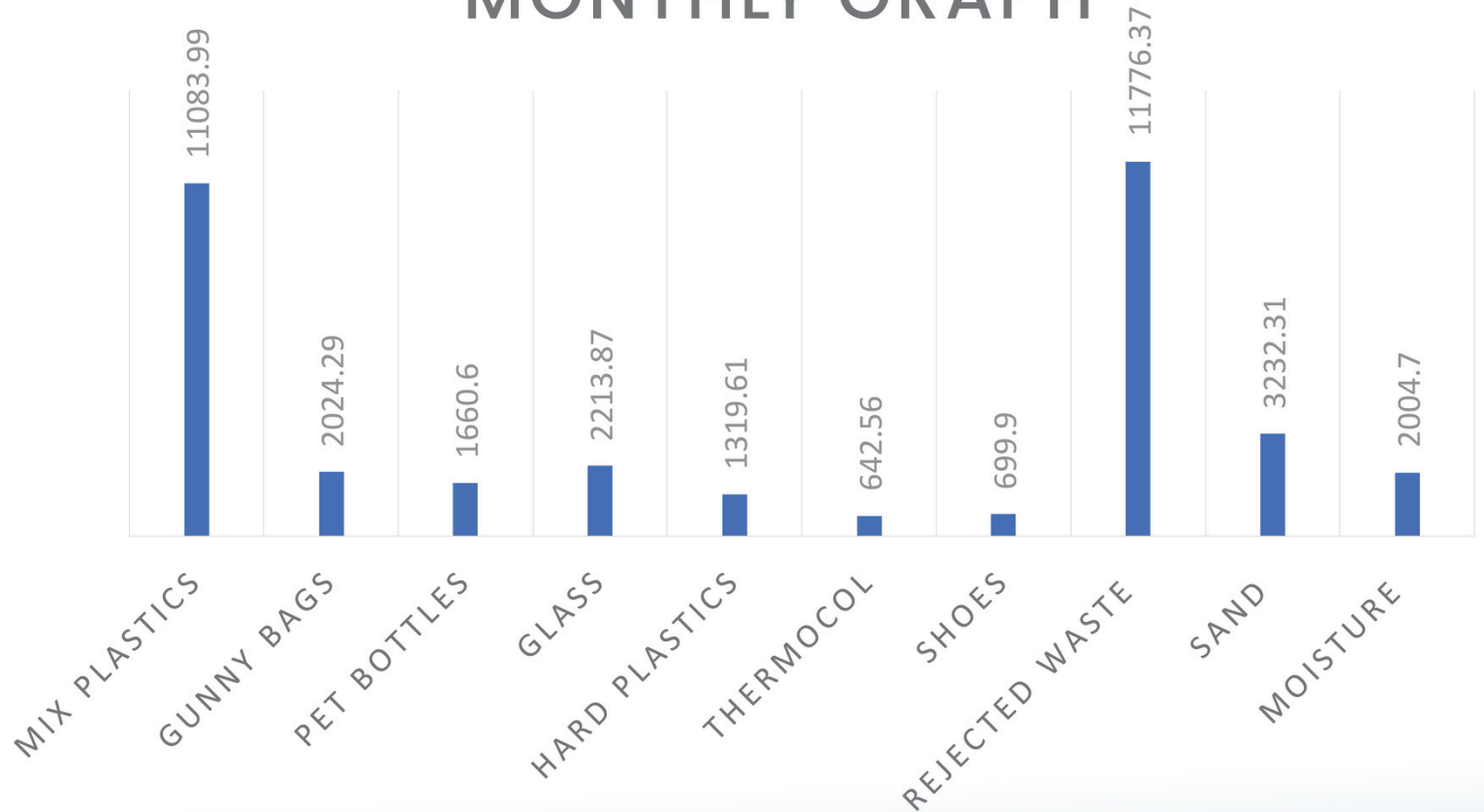
43	21 March 2025	1146.16										
44	22 March 2025	145.2										
45	22 March 2025	1151.08										
46	23 March 2025	144.12										
47	23 March 2025	1156.1										
17 March to 23 March 2025 Total		9026.99	2256.7	451.34	460.9	631.8	406.21	90.26	180.5	3069.17	812.4	667.71
48	24 March 2025	146.09										
49	24 March 2025	1171.2										
50	25 March 2025	151.3										
51	25 March 2025	1183.15										
52	26 March 2025	154.1										
53	26 March 2025	1196.08										
54	27 March 2025	156.04										
55	27 March 2025	1206.3										
56	28 March 2025	159.9										
57	28 March 2025	1218.01										
58	29 March 2025	158.5										
59	29 March 2025	1224.08										
60	30 March 2025	0										
61	30 March 2025	0										
62	31 March 2025	156.13										
63	31 March 2025	1229.2										
24 March to 31 March 2025 Total		9524.11	2757.9	380.4	475.5	570.6	332.8	190.2	285.3	3138.2	774.83	618.38
		36658.2	11083.99	2024.29	1660.6	2213.9	1319.61	642.56	699.9	11776.37	3232.3	2004.7





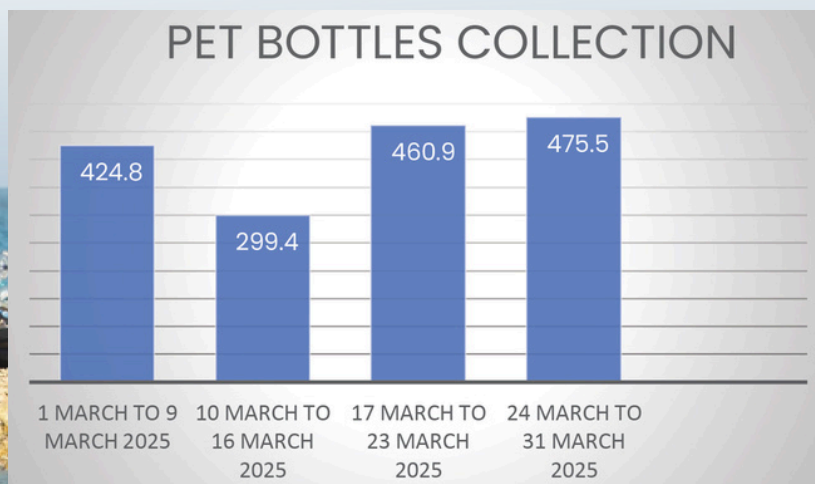
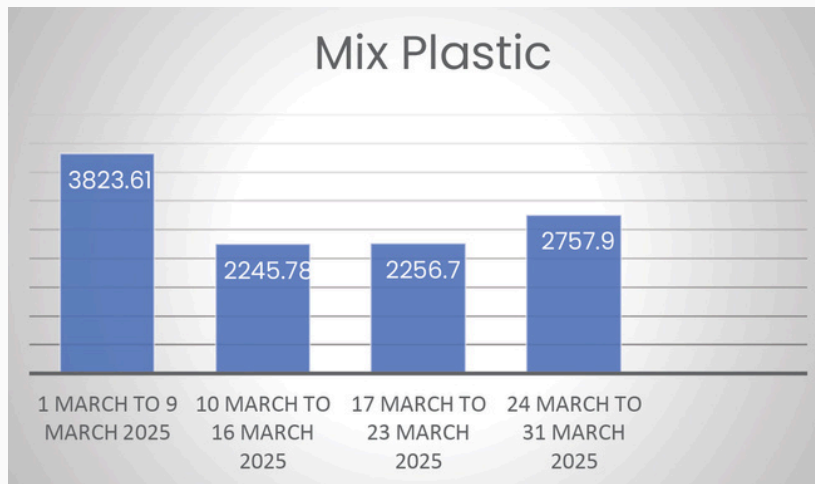
MONTHLY GRAPH

MONTHLY GRAPH



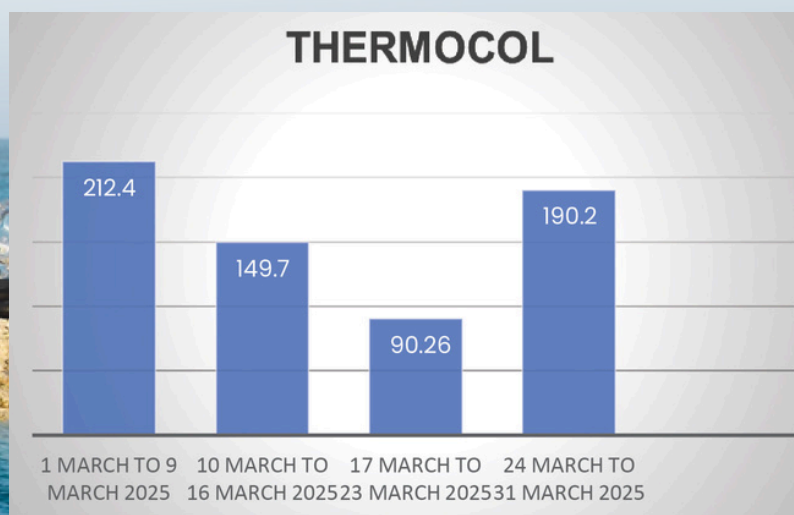
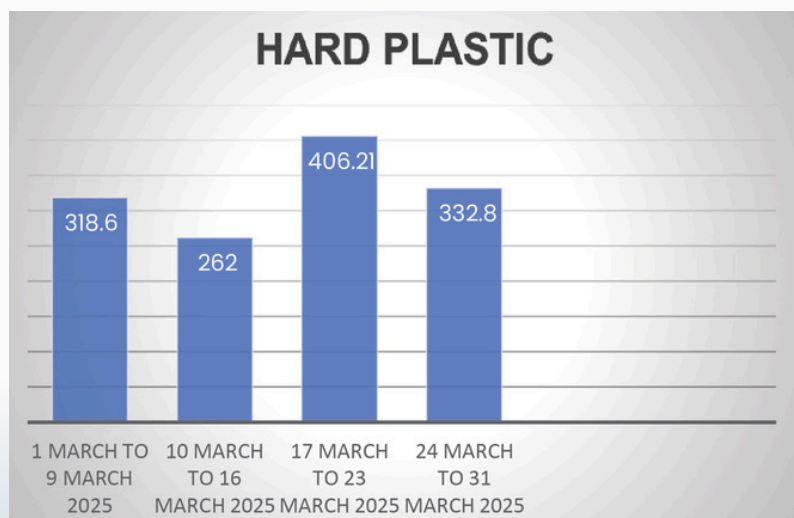
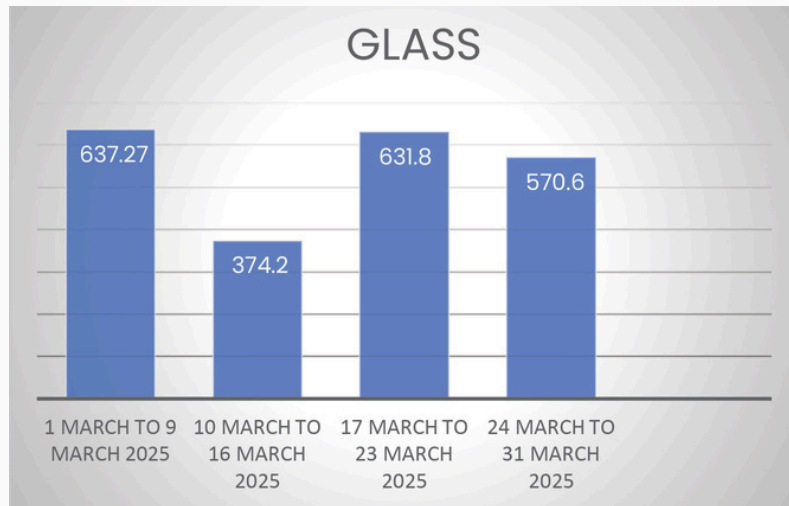


DATA ANALYSIS



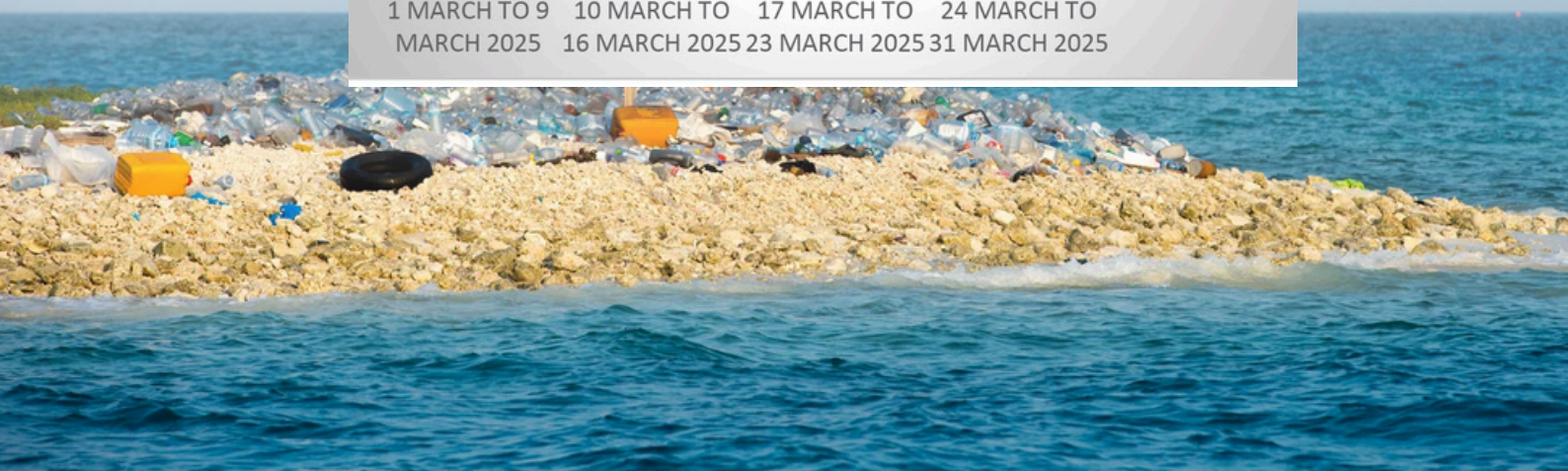
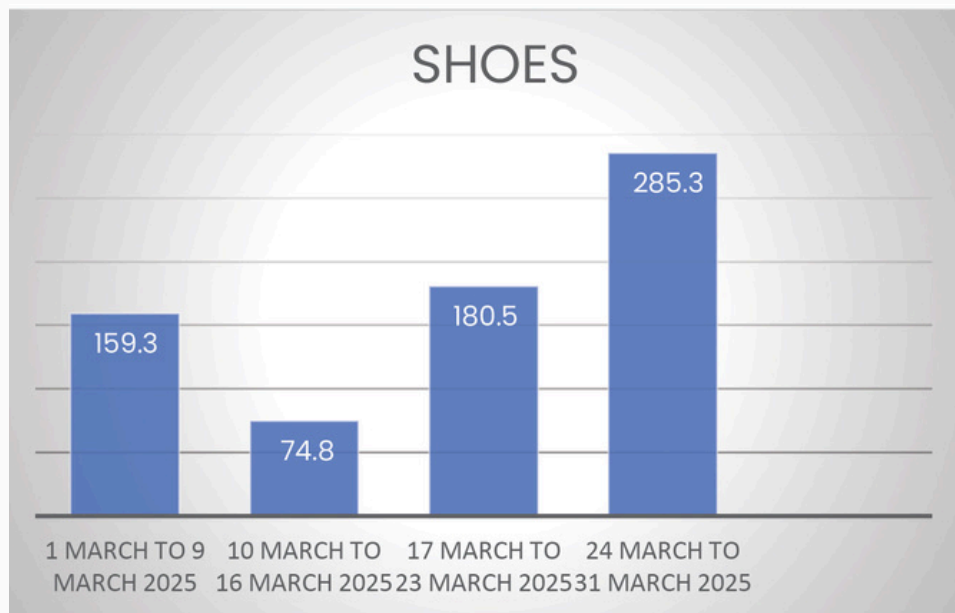


DATA ANALYSIS



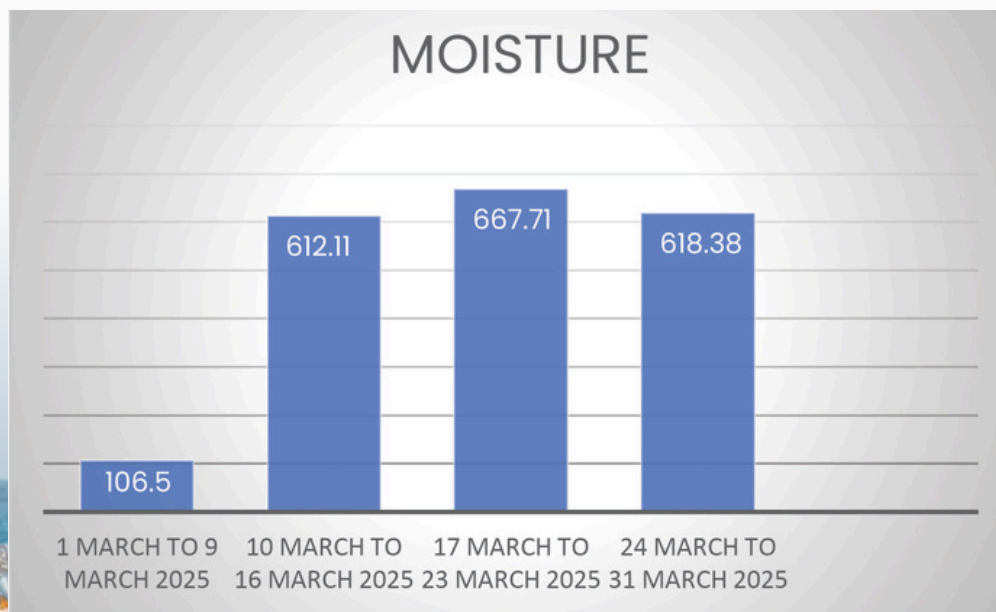
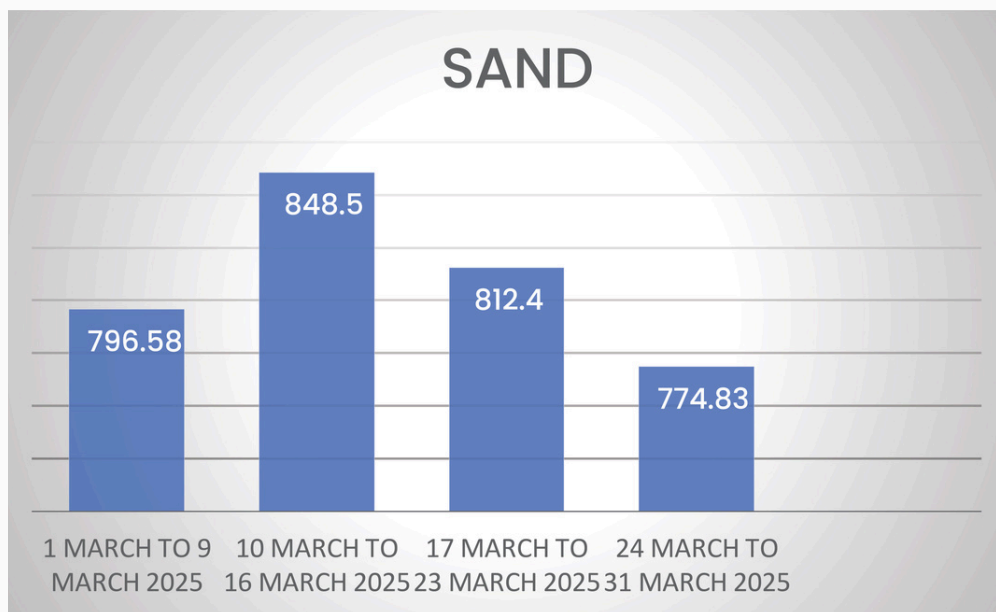


DATA ANALYSIS





DATA ANALYSIS



FINDINGS

Collection Span – 1ST March 2025 to 31ST March 2025
Total Working Days – 29
Total Safai Sathis – 13
Total Holidays – 2
Total Working Hours – $29 \times 7 = 203$ Hrs.
Total waste collected – 36658.2 KG
Waste collection per hour – 180.58 KG
Waste collection per hour per Safai Sathis – 13.88 KG
Total Mix Plastics – 11083.99 KG
Total Gunny Bags – 2024.29 KG
Total Pet Bottles – 1660.6 KG
Total Glass – 2213.87 KG
Total Hard Plastics – 1319.61 KG
Total Tharmocol – 642.56 KG
Total Shoes – 699.9 KG
Rejected Waste – 11776.37 KG
Sand – 3232.31 KG
Moisture – 2004.7 KG

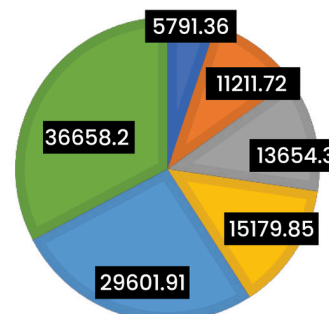


PERCENTAGE ANALYZING

Mix Plastics – 30 %
Gunny Bags – 5%
Pet Bottles – 4 %
Glass – 6%
Hard Plastics – 3 %
Tharmocol – 2%
Shoes – 3 %
Rejected Waste – 33 %
Sand – 8%
Moisture – 6 %

6 MONTH COLLECTION RECORD

■ October 2024 ■ November 2024 ■ December 2024
■ January 2025 ■ February 2025 ■ March 2025





REMARKS

Of the total collected waste, 53% 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%.

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 47% 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 65% 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.