



UNITED WAY
Mumbai



Samarth Bharat Vyaspeeth

**May
2025
Report**

MAHIM RETI BUNDER & MAHIM CAUSEWAY BEACH



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 under 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.

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



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: Pooja Bansi Kale | Age: 22 | Education: None

Pooja, a resident of Osmanabad village, was engaged in farming. Being the eldest among her siblings, she bore the financial responsibility of the household. Due to her father's kidney failure (both kidneys), she couldn't continue her education. She used to work at a brick kiln, making bricks, and used the money earned to fund her father's medical treatment. Since her father required dialysis twice a week, a significant amount of money was spent on his healthcare. Pooja and her mother together managed the household.

Pooja has two brothers and two sisters. She is the one who supports their education financially. She got married a year ago. After getting a job at United Way Mumbai, she also began helping her mother financially and continues to support her siblings' education.



Although Pooja had a strong desire to study, her family's financial condition didn't allow her to do so. Now, she fulfills that dream through her siblings. She has expressed deep gratitude to United Way Mumbai and Samarth Bharat Vyaspeeth for enabling her to work in Mumbai. Despite lacking formal education, she couldn't find employment in the city earlier, but thanks to this opportunity, she is now able to sustain her household.

Special Activity Done

Started new project Community waste collection



**2 Bins provided
(Green & Blue Bin)**



Community Awareness Session

Yogita Gaikwad Coordinator conducted an awareness session for safai sathis on dry waste and wet waste management.



**RAINCOAT
DISTRIBUTION
FOR SAFAI SATHIS
AT MAHIM
KOLIWADA
BEACH PROJECT**

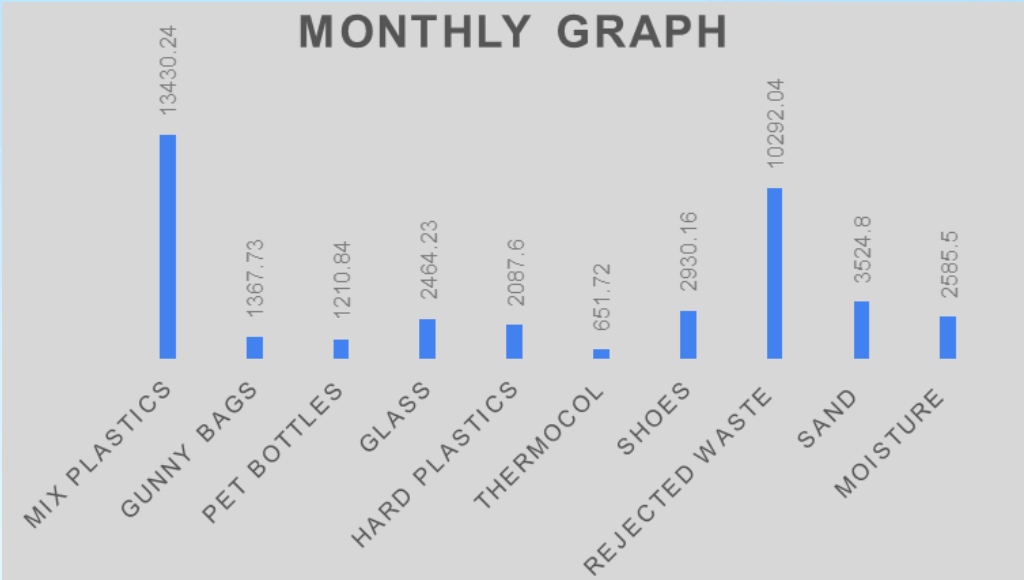
United way Mumbai & Samarth Bharat Vyaspeeth Beach cleanup drive Month of May 2025 Data

Sr. No	Date	Day	Safai Sathi & Supervisor name	Designation	In time	Out time	Total Segregation Waste	Mix Plastics	Gunny Bags	Pet Bottles	Glass	Hard Plastics	Thermocol	Shoes	Rejected Waste	Sand	Moisture
1	1 May 2025	Thursday	Maharashtra Day				0										
2	1 May 2025	Thursday					0										
3	2 May 2025	Friday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	163.4										
4	2 May 2025	Friday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1394.18										
5	3 May 2025	Saturday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	164.1										
6	3 May 2025	Saturday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1396.08										
7	4 May 2025	Sunday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	155.03										
8	4 May 2025	Sunday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1384.16										
9	5 May 2025	Monday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	157.2										
10	5 May 2025	Monday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1389.08										
11	6 May 2025	Tuesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	154.03										
12	6 May 2025	Tuesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1395.7										
14	7 May 2025	Wednesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	155.5										
15	7 May 2025	Wednesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1392.18										
16	8 May 2025	Thursday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	147.6										
17	8 May 2025	Thursday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1386.2										
18	9 May 2025	Friday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	157.3										
19	9 May 2025	Friday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1379.1										
20	10 May 2025	Saturday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	148.9										
21	10 May 2025	Saturday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1382.9										
22	11 May 2025	Sunday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	138.3										
23	11 May 2025	Sunday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1383.63										
	1 May to 11 May Total						15424.53	5398.5	462.7	616.4	925.47	771.2	308.49	1079.72	3779	1233.9	849.15
24	12 May 2025	Monday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	134.4										
25	12 May 2025	Monday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1372.8										
26	13 May 2025	Tuesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	139.6										
27	13 May 2025	Tuesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1379.1										
28	14 May 2025	Wednesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	131.2										
29	14 May 2025	Wednesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1381.6										
30	15 May 2025	Thursday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	76.2										
31	15 May 2025	Thursday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	467.1										
32	16 May 2025	Friday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	135.8										
33	16 May 2025	Friday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1378.01										
34	17 May 2025	Saturday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	123.5										
35	17 May 2025	Saturday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	964.02										
36	18 May 2025	Sunday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	137.3										
37	18 May 2025	Sunday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1383.1										
	12 May to 18 May Total						9203.73	3037.23	367.14	276.11	644.26	460.18	184.07	736.29	2116.8	828.3	553.35

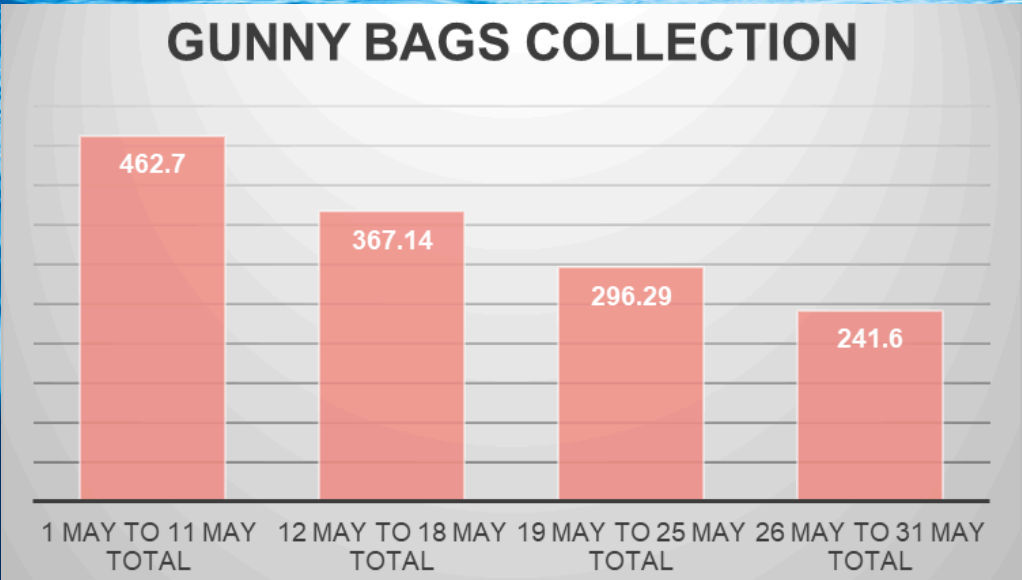
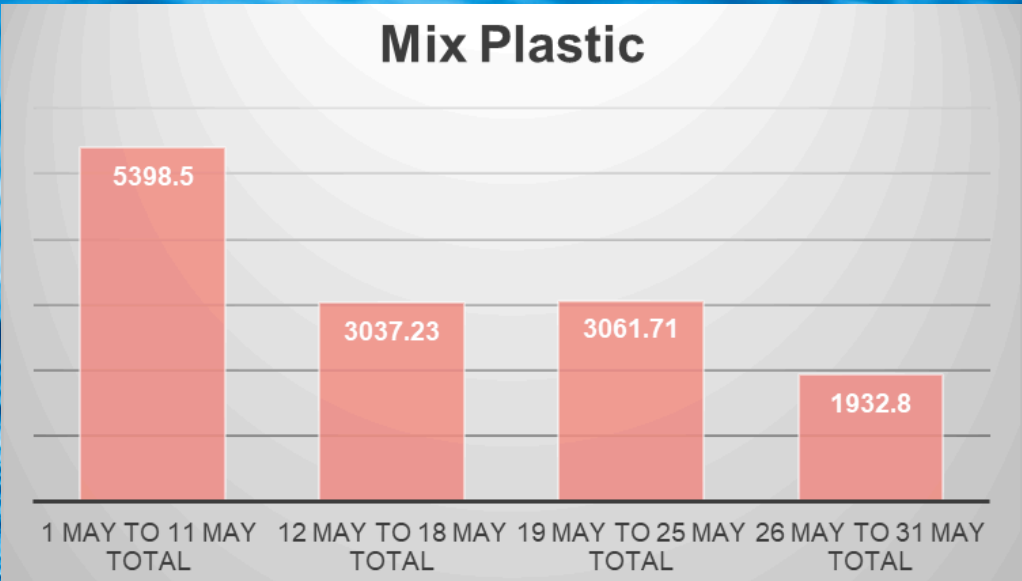
United way Mumbai & Samarth Bharat Vyaspeeth Beach cleanup drive Month of May 2025 Data

			12 May to 18 May Total				9203.73	3037.23	367.14	276.11	644.26	460.18	184.07	736.29	2116.8	828.3	553.35
38	19 May 2025	Monday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	132.6										
39	19 May 2025	Monday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	890.21										
40	20 May 2025	Tuesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	134.01										
41	20 May 2025	Tuesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1026.7										
42	21 May 2025	Wednesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	148.07										
43	21 May 2025	Wednesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1393.1										
44	22 May 2025	Thrusday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	141.1										
45	22 May 2025	Thrusday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1395.05										
46	23 May 2025	Friday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	144.2										
47	23 May 2025	Friday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1391.12										
48	24 May 2025	Saturday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	143.5										
49	24 May 2025	Saturday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1396.02										
50	25 May 2025	Sunday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	146.03										
51	25 May 2025	Sunday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	1394.8										
			19 May to 25 May Total				9876.51	3061.71	296.29	197.53	592.5	493.82	98.76	691.35	2765.42	888.8	790.33
52	26 May 2025	Monday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	78.1										
53	26 May 2025	Monday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	920										
54	27 May 2025	Tuesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	81.6										
55	27 May 2025	Tuesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	946.02										
56	28 May 2025	Wednesday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	96.32										
57	28 May 2025	Wednesday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	850.1										
58	29 May 2025	Thrusday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	145.89										
59	29 May 2025	Thrusday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	855.09										
60	30 May 2025	Friday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	153.02										
61	30 May 2025	Friday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	885.77										
60	31 May 2025	Saturday	Mr. Nagesh + 5 Safai D	Supervisor + 5 Safai Doot	8:00 AM	4:00 PM	151.4										
61	31 May 2025	Saturday	Mr. Nagesh + 10 Safai	Supervisor + 10 Safai Doot	8:00 AM	4:00 PM	896.78										
			26 May to 31 May Total				6040.09	1932.8	241.6	120.8	302	362.4	60.4	422.8	1630.82	573.8	392.67

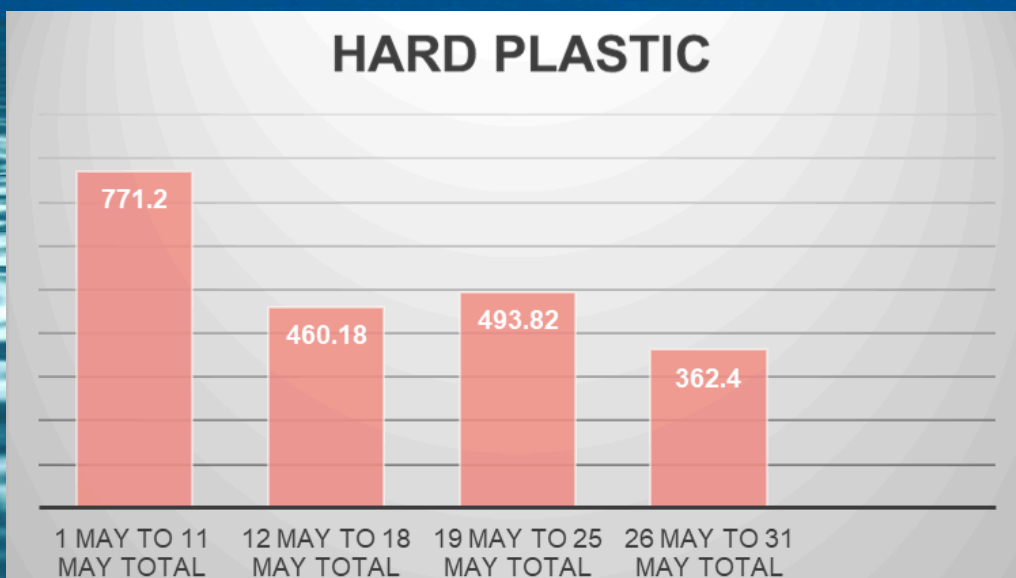
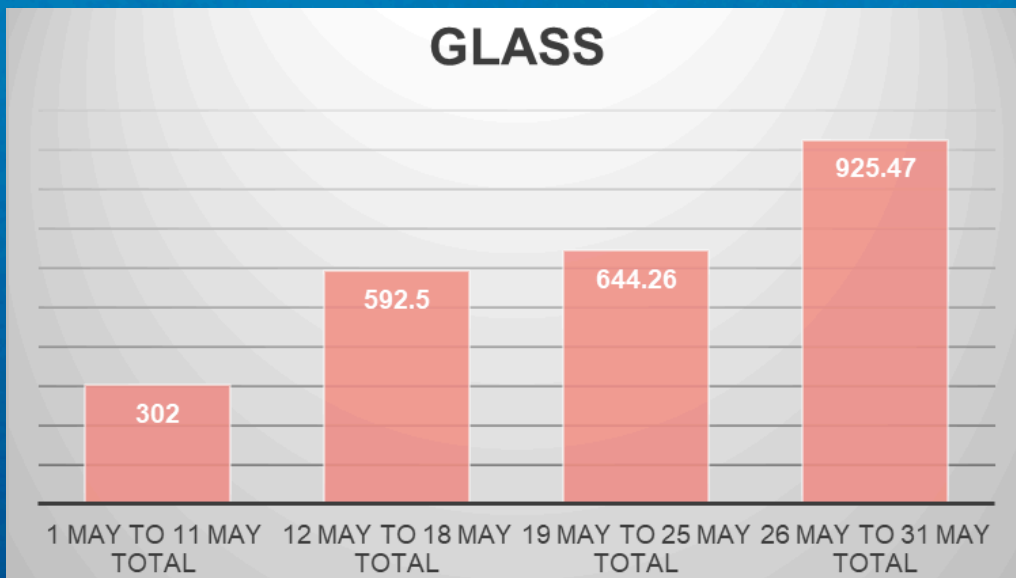
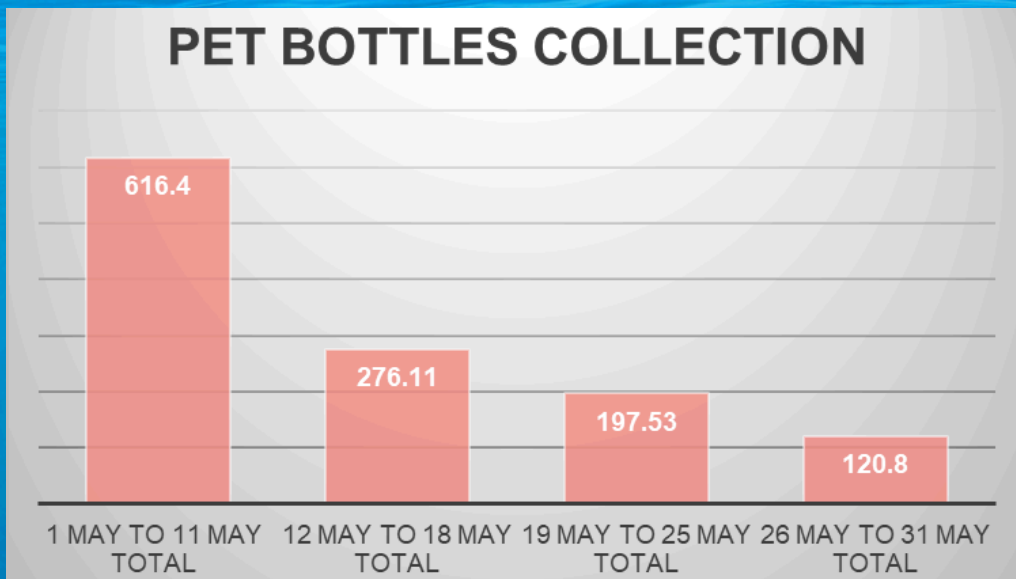
Data Analysis



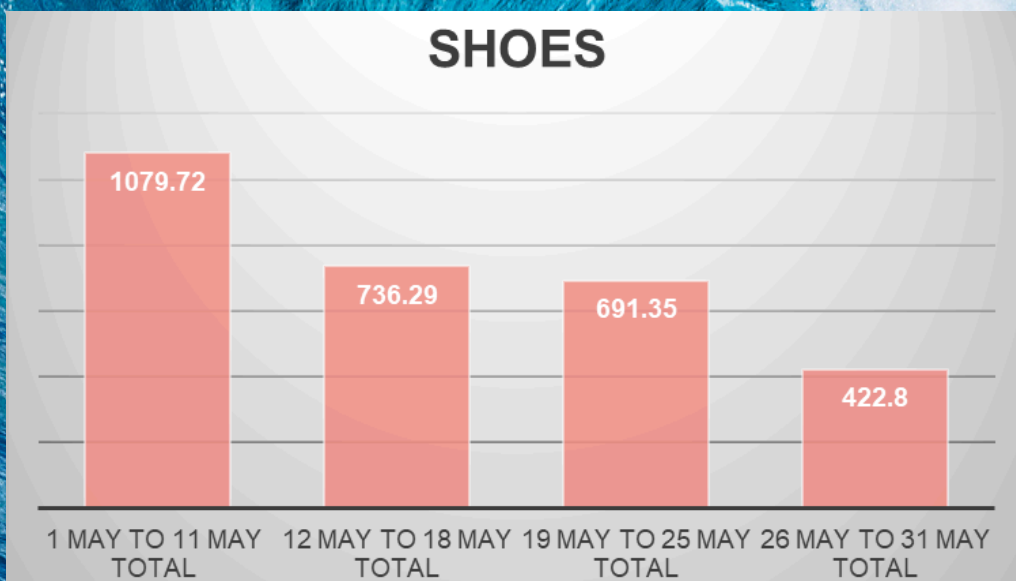
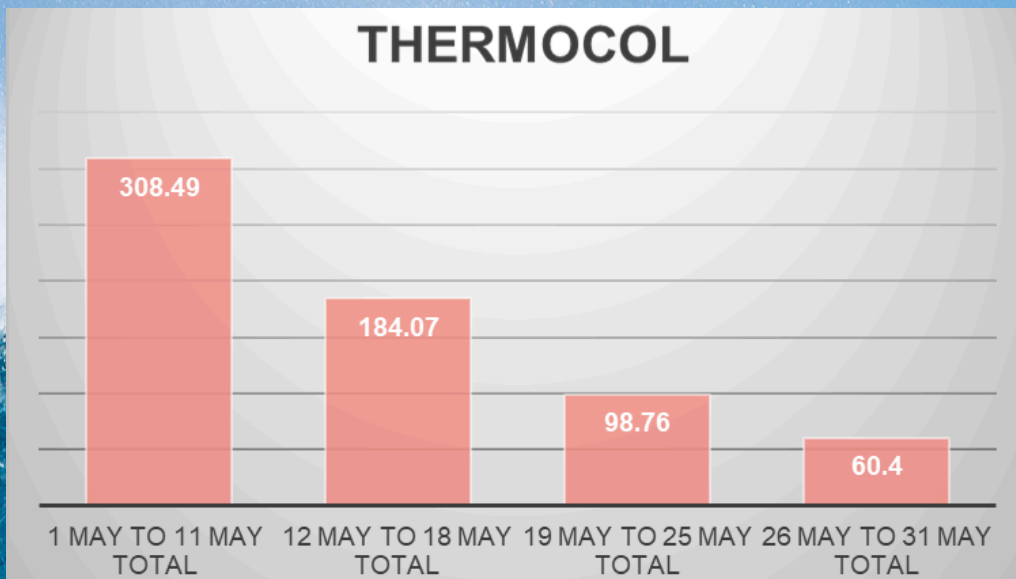
Data Analysis



Data Analysis

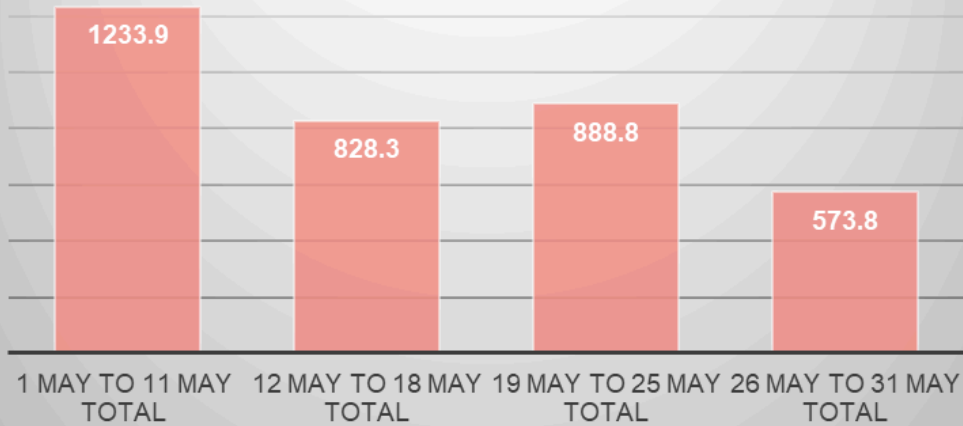


Data Analysis

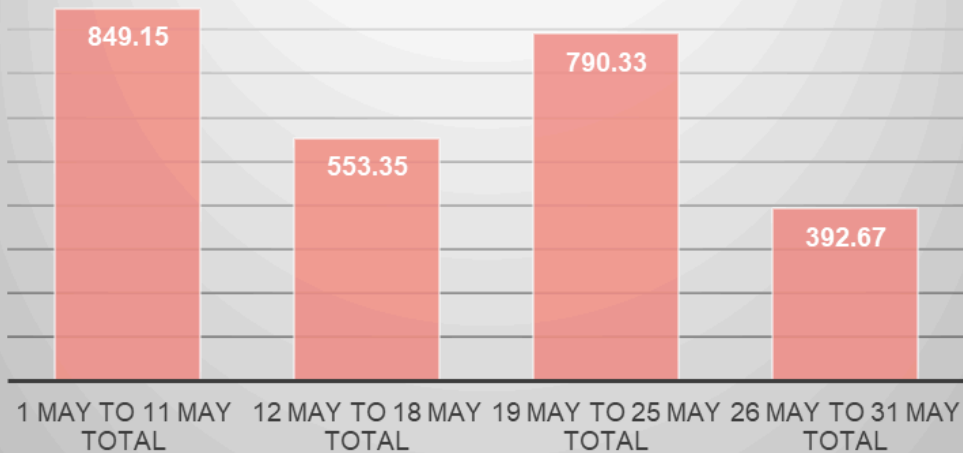


Data Analysis

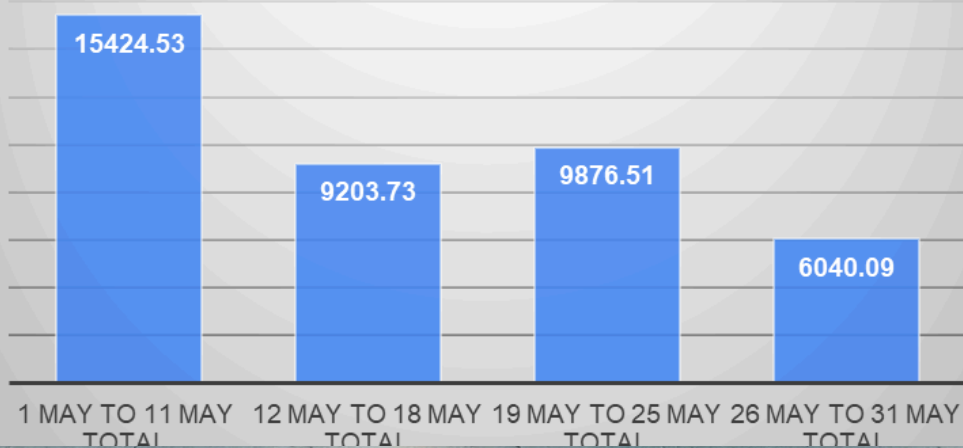
SAND



MOISTURE



Total Weight 40544.86



Findings

Collection Span – 1ST May 2025 to 31st May 2025

Total Working Days – 31

Total Safai Sathis - 13

Total Holidays – 0

Total Working Hours - 31 X 7 = 217 Hrs.

Total waste collected – 40544.86 KG

Waste collection per hour –186.84 KG

Waste collection per hour per Safai Sathis – 14.37 KG

Total Mix Plastics – 13430.24 KG

Total Gunny Bags – 1210.84 KG

Total Pet Bottles – 2464.23 KG

Total Glass- 2087.6 KG

Total Hard Plastics- 651.72 KG

Total Tharmocol- 2930.16 KG

Total Shoes- 1102.02 KG

Rejected Waste – 10292.04 KG

Sand – 3524.8 KG

Moisture- 2585.5 KG



Percentage Analyzing

Mix Plastics – 32 %

Gunny Bags - 3%

Pet Bottles -4 %

Glass – 7%

Hard Plastics - 4 %

Tharmocol – 1%

Shoes – 3 %

Rejected Waste -35 %

Sand - 6%

Moisture -5 %



Remarks

Of the total collected waste, 47% 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 6%.

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 46% 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 55% 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.