



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)



**United Nations**  
Academic Impact



On the occasion of **World Clean Up Day – 20.09.2024**  
**Environmental Management System** in association with  
the **Unnat Bharat Abhiyan 2.0** and **Directorate of Learning and Development**  
Organizes a programme on

## **“Experiential learning of solid waste management facilities at the SRMIST, Kattankulathur Campus”**

Convener

**Dr. V. Thirumurugan**

Associate Director – Campus Life  
EMS - Coordinator

Co-convener

**Dr. S. Gopinath**

Management Representative –  
ISO 14001:2015

**Date: 20.09.2024**

**Time: 09:30 AM to 12:30 PM**

**Participants: Students and faculties**

### **About the programme**

The objective of this programme is to enable the participants understanding about the environmental aspects of solid waste management, importance of source segregation, solid waste management practices, and circular economy.

**Registration: 30 Participants**



**Last Date: 19.09.2024**

## **Programme schedule**

Session 1	Session 2	Session 3
<b>09:30 AM to 10:30 AM</b> – Visit to the Solid Waste Management Yard  <b>Topics:</b> Environmental aspects of solid waste management practices and Bio-mining.	<b>10:30 AM to 11:30 AM</b> – Visit to the Resource Recovery Centre  <b>Topics:</b> Solid waste generation and segregation rate, challenges involved, and circular economy.	<b>11:30 AM to 12:30 PM</b> – Visit to Vermi-compost facility  <b>Topics:</b> Horticulture waste management and production of manure.





## **Programme Report**

### **Experiential Learning of Solid Waste Management Facilities**

On the occasion of World Clean Up Day (20.09.2024), the Environmental Management System, in association with the Unnat Bharat Abhiyan 2.0 and Directorate of Learning and Development, organized a program on “Experiential learning of solid waste management facilities” from 9.30 am to 12.30 pm with 3 sessions at the SRMIST, Kattankulathur Campus. There were 22 participants, including students, research scholars, and teaching and non-teaching staff, and they have taken the bus for the field visit (Figure 1).



**Figure 1: World Clean Up Day Programme Participants**

#### **Programme Objective:**

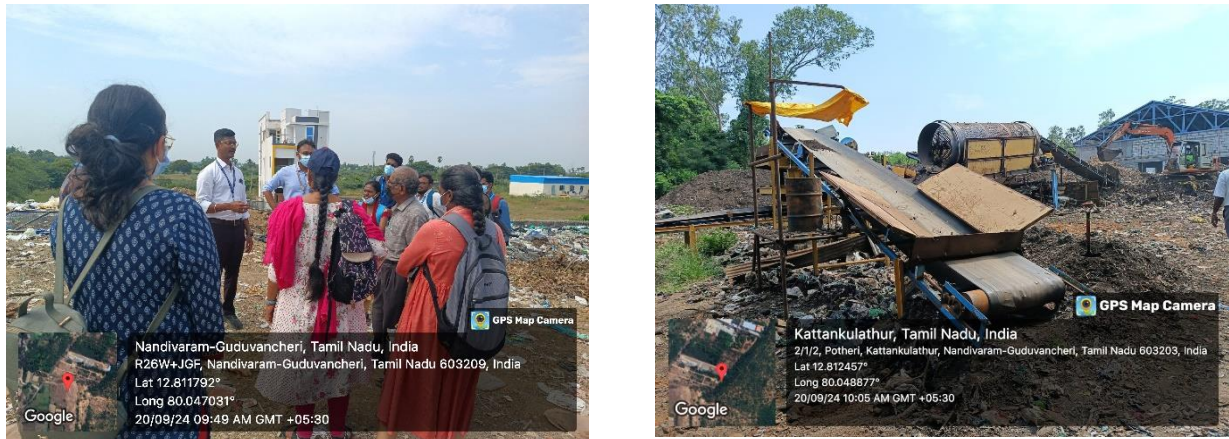
To enable the stakeholders understanding about the environmental aspects of solid waste management, importance of source segregation, challenges involved in solid waste management, bio-mining of legacy solid waste, solid waste management practices, and circular economy.

#### **Session 1: Visit to the Solid Waste Management Yard (09:30 AM to 10:30 AM)**

This session was about environmental aspects of solid waste management practices and biomining. The environmental pollution caused by the ineffective solid waste management was discussed. The quantity and types of waste generated on campus were explained to the participants. The process involved in the biomining was briefed. The trommel machine (Figure 2) was placed in the yard to separate the solid waste materials (40 mm sieve size). The trash below 40 mm was once again separated using a 10-mm sieve, and to make the horticultural

waste smaller in size, it was being shredded using a shredder. The participants had a look around the machines and understood their operations. There was also an ongoing shed construction to segregate the daily waste to avoid dumping (Figure 3).

Organic waste management for the left-over vegetables and dry leaves was explained. The vermi compost pit to produce manure was showcased to the participants, in which the American earthworm is the type of vermi used (Figure 4).



**Figure 2: Solid waste management yard and the trommel machine setup**



**Figure 3: Segregation shed construction**



**Figure 4: Vermi compost pit**

**Session 2: Visit to the Resource Recovery Centre (10:30 AM to 11:30 AM)**

This session was about solid waste generation and segregation rate, challenges involved, and circular economy. Participants learned about the amount of waste that was separated every day on campus; it was about 4% of the waste that was separated (Figure 5). The difficulties associated with segregation included theft, odor generation, and health concerns for the employees.





**Figure 5: Resource recovery center and segregated waste**

**Session 3: Visit to the Vermi-compost Facility** (11:30 AM to 12:30 PM)

This session was about horticulture waste management and production of manure. The participants acquired knowledge regarding the manure-producing process. The Vermi used was the African night crawler earthworm (figure 6). Vermicomposting is an eco-friendly process that can be used in farms to grow vegetables, flowers, fruits, and other crops.



**Figure 6: Vermi compost pit**

Overall, the 3 sessions made the participants more informative about the solid waste management practices. The visit enhanced their understanding of the program objective clearly. After the program, we have collected the feedback from the participants. The outcomes of the program is mentioned below.



### **Programme outcomes**

- The understanding of the importance of solid waste source segregation was improved by **80%** for **23%** of participants and by **100%** for the remaining **77%** of participants.
- The understanding of the practical challenges in solid waste management was improved by **80%** for **23%** of participants and by **100%** for the remaining **77%** of participants.
- All the participants have understood (**100%**) the environmental, economic, and societal benefits of effective solid waste management.

### ***Feedback of the Participants:***

“I believe that managing the disposal of solid waste is a major challenge that faced by all of us. I truly understand the steps involved in the solid waste management system now. I appreciate you putting on this kind of beneficial programme.”

– Dr. Senthamari R (Associate Professor)

“It was very useful session, everyone need this knowledge on the solid waste management and better to have Hands-on training session understand the practical knowledge.”

– Rohit H (M.Tech Student)

“In my opinion, the program was very informative. I would suggest including liquid waste management as an additional course.”

– Muskaan Sethi (B.Tech Student)

“I am deeply concerned about the environment, particularly after witnessing the extent of man-made pollution. The session on waste management was incredibly enlightening, offering valuable insights into the scale of waste generation within our educational institution and the broader challenges related to waste segregation and disposal. I was particularly impressed by the initiative to convert horticulture waste into vermicompost on campus, which presents a practical and sustainable solution. Overall, the session was extremely useful for me. I gained valuable knowledge and made strong connections with experts in the solid waste management field.”

– Karmuhil Mathimozhiyazh V (Research Scholar)

**Overall rating of the programme – 4.85.**



World Clean Up Day Programme - 2024

Attendance Sheet

20.09.2024

On the occasion of World Clean Up Day – 20.09.2024, Environmental Management System in association with the Unnat Bharat Abhiyan 2.0 and Directorate of Learning and Development organizes a programme on “**Experiential learning of solid waste management facilities**” from 9.30 am to 12.30 pm at the SRMIST, Kattankulathur Campus. The following are the participants attended the programme.

S.No.	Name	Registration Number	Designation	Signature
✓ 1.	Rohit . H	RA2312005010006	M.Tech Student	Rohit H
✓ 2.	Muskaan Sethi	RA2111009010147	B.Tech Student	Muskaan
✓ 3.	KALIND KUMAR	RA2111039010002	B.Tech Civil Stud.	Kalind
✓ 4)	PIYUSH NARAYAN	RA2911005010107	B.Tech Student	Piyush
5)	M.L.EASHWAR	RA241201800002	M.Tech Student	M.L. Eashwar
6.	LOKESH.D.T	RA24120180100051	M.Tech .S	Lokesh
7.)	DEEPAK.K	RA2412018010004	M. TECH	Deepak K.
✓ 8.	YOGESH KANNAN	RA2412018010001	M.TECH	Yogesh K.
✓ 9.	MASEED UDDIN	RC2113010011006	Ph.D.	Maseed
✓ 10.	V.KARMUHL MATHIMOTHU SATHI	RC2413010011004	phd.	V.Karmuhl
✓ 11.	P. Jyotsna Reddy		Faculty - Asst Prof	P. Jyotsna
✓ 12.	A. MANIMARAN	101346	ASSISTANT PROFESSOR/CIVIL	A. Manimaran
✓ 13.	Dr. R. SENTHAMARAI	101380	Associate Professor/Maths	Dr. R. Senthamarai
✓ 14.	Dr. G. Vanthana Sree	5000162	Scientist REACH	Dr. G. Vanthana Sree
✓ 15.	Dr. M. Kamalanandhini	101733	Asst. Prof./civil	Dr. M. Kamalanandhini
16.	Parv Luria	RA2211003011658	C.Tech-student	Parv
✓ 17	P. KARTHIKEYAN	RA1813002010004	Ph.D. RS	P. Karthikeyan



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