SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

Ref. : 1290-A / Dean(SoI)/1025 **Date: 30.09.2025**

REPORT ON GUEST LECTURE

Date & Time	Speaker	Title	Venue
26.09.2025, 2:30 PM to 3:40 PM	Ms.Krishnapriya A., Co-founder Spreco Recycling Pvt. Ltd, Chennai	Off-site waste processing techniques	Seminar Hall, Dept. of Civil Engineering, BSACIST

I. PREAMBLE:

The Department of Civil Engineering organized a guest lecture titled "Off-site processing techniques" on September 26, 2025 under the student chapter of Institution of Engineers and Indian Plumbing Association, supported by Institutions Innovation Council IIC as part of value addition to the course CEDX 42 - Solid Waste Management. The session took place from 2:30 PM to 3:40 PM in the Seminar Hall, Department of the Civil Engineering, BSACIST.

II. ABOUT THE SPEAKER:

Ms. Krishnapriya A. is an environmental engineer and co-founder of Spreco Recycling Pvt. Ltd., a social enterprise focused on creating a formal waste management ecosystem. With over eight years of experience, she is a certified TRUE Advisor who works to implement global standards in waste management to help communities and businesses achieve zero-waste goals. Her work includes developing waste management strategies, promoting recycling and reduction technologies, and fostering education and community engagement.

III. EVENT HIGHLIGHTS

The session commenced with a warm welcome by Dr. P. Vasanthi, Professor, Department of Civil Engineering. Dr. M. S. Haji Sheik Mohammed, Dean, School of Infrastructure, extended his felicitations and honored the guest speaker.

The program began with a Qirath recitation by Mr. Shaad Syed, a Third-year B. Tech student in civil Engineering. The guest speaker was introduced by Mr. Muhamadu Sulthan S, Third-year B. Tech., Civil Engineering student.

IV. LECTURE OVERVIEW

Off-site waste processing techniques involve the treatment, recovery, and disposal of waste materials at facilities located away from the point of waste generation. These methods are essential when on-site treatment is not feasible due to space, cost, or safety limitations.

The main objective of off-site waste processing is to manage waste in an environmentally sound and economically efficient manner while maximizing material and energy recovery. Waste transported to off-site facilities is typically classified based on its type—such as municipal solid waste, industrial waste, hazardous waste, biomedical waste, or construction and demolition debris—and treated using appropriate technologies.

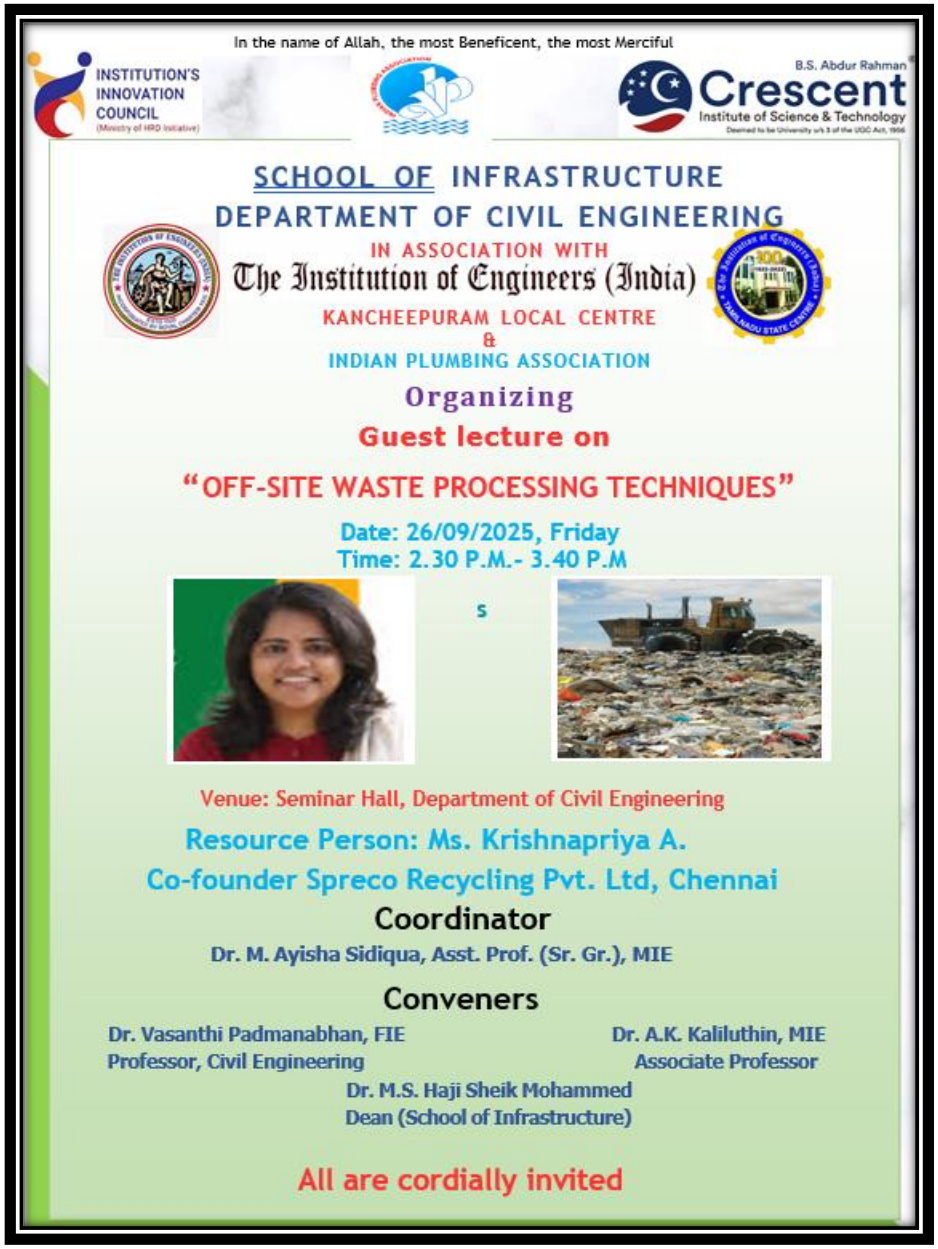
Several major off-site processing techniques are commonly used. Material Recovery Facilities (MRFs) are designed to sort and separate recyclable materials like paper, plastics, metals, and glass for reuse in manufacturing industries.

Biological processing methods, such as composting and anaerobic digestion, are employed for organic wastes; composting converts biodegradable waste into nutrient-rich compost, while anaerobic digestion produces biogas and digestate.

Thermal treatment methods, including incineration, pyrolysis, and gasification, use controlled heating processes to reduce waste volume and recover energy in the form of electricity or synthetic fuels. Chemical treatments are mainly applied to hazardous and industrial wastes to neutralize toxins or stabilize harmful compounds, whereas engineered landfills serve as the final disposal sites for residual waste, equipped with liners, leachate collection, and gas recovery systems to minimize environmental impact.

The lecture aligns with the syllabus of the course CEDX42 – Solid Waste Management, particularly under the topic of various waste process techniques. It provided relevant insights that complement the academic framework of the subject.

The event concluded with a vote of thanks delivered by Dr. M. Ayisha Sidiqua, Assistant Professor (Sr. Gr.), Department of Civil Engineering, marking the end of a thought- provoking and enriching session.



Guest Lecture Brochure

Felicitation by Dr. M.S. Haji Sheik Mohammed, Dean, SoI

Presentation by Ms. Krishnapriya A.

III. DETAILS OF PARTICIPANTS:

The following third year Civil Engineering students participated in the lecture:

S.No	NAME	RRN
1.	Abdul Aadhil M	230011601001
2.	Abdul Rahim	230011601002
3.	Akram Jaweeth A	230011601003
4.	Aravinthan Theivaraj	230011601004
5.	Arshath Ibrahim S	230011601005
6.	Imran Farid A	230011601007
7.	Jameel Ahamed M.	230011601008
8.	Mahalakshmi K	230011601009
9.	Mohamed Aslam S	230011601010
10.	Mohamed Shadiq M	230011601011
11.	Mohamed Yasin S	230011601012
12.	Mohammed Ajmal	230011601013
13.	Mohammed Faaiz k	230011601014
14.	Mohammed Mehran P	230011601015
15.	Mohammed Razeen T	230011601016
16.	Mohammed Siddiq S	230011601017
17.	Rameeza Yasmin PK	230011601018
18.	Roshan A sfaq	230011601019
19.	Saad Sayeed Shairkhan	230011601020
20.	Surya Moorthy M	230011601021
21.	Syed Ahamed K	230011601022
22.	Syed Masooth	230011601023
23.	Thokchom Wanglen Moilangc	230011601024
24.	Thycus Mario Valantine D	230011601025
25.	Yukesh G	230011601026
26.	Abdul Asif M	230011602001

27.	Esakki Rajesh R	230011602002
28.	Faslan Ahamed A	230011602003
29.	Mohamed Jasim H	230011602005
30.	Mohamed Yusuf Irfan M	230011602006
31.	Naufal Ahamed	230011602007
32.	Rithvik.K	230011602008
33.	Muhamadhu Sulthan S	230011602009
34.	Dilleep Kumar S	230011602010

IV. OUTCOME OF THE GUEST LECTURE:

The session empowered students with the knowledge to identify and utilize alternative source of waste collection, promoting a reduction in carbon emissions and minimizing environmental impact. Participants gained valuable insight related to current practices in offsite waste processing units which covers the course outcome 4 of the course CEDX 42 – Solid Waste Management. The lecture emphasized that achieving true sustainability in civil engineering requires a comprehensive and holistic approach. This initiative supports the advancement of Sustainable Development Goals encouraging the development of resilient infrastructure, promoting environmentally responsible industrial practices, and fostering innovation in solid waste.

Dr. M. Ayisha Sidiqua
Assistant Professor (Sr. Gr.)

Dr.M.S.Haji Sheik Mohammed
Dean, School of Infrastructure