

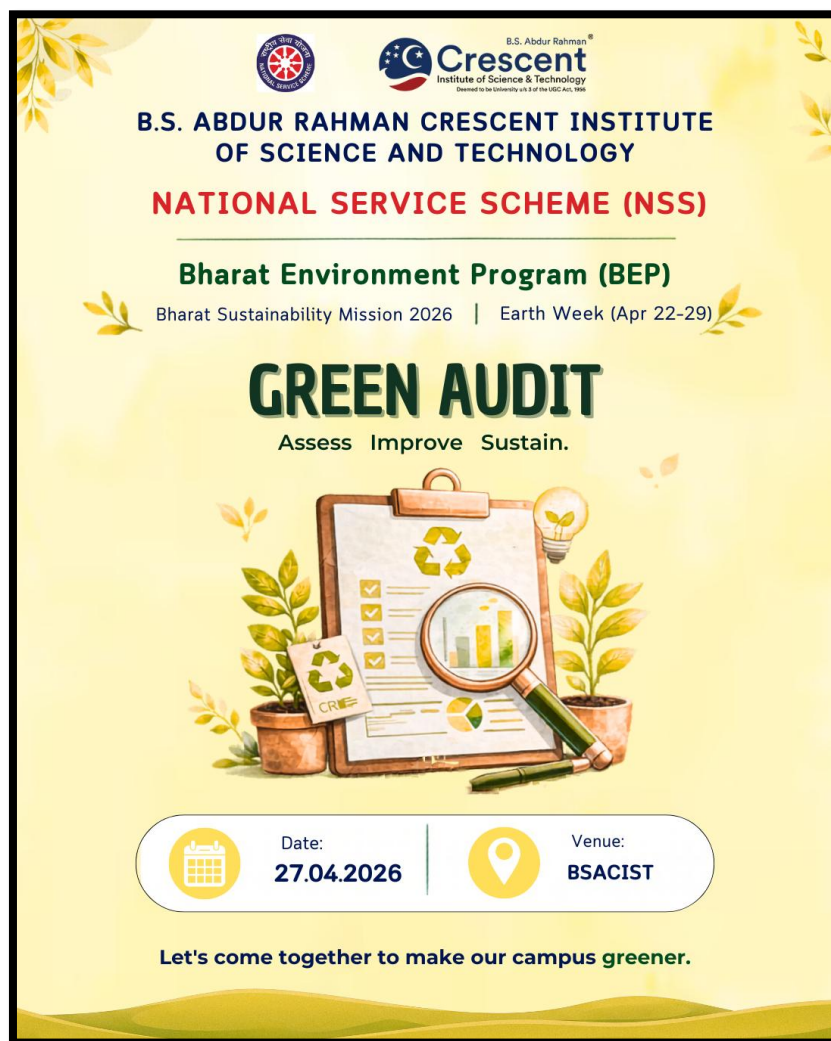


B S Abdur Rahman Crescent Institute of Science and Technology

National Service Scheme

Report on Campus Green Audit

National Service Scheme (NSS) of B.S. Abdur Rahman Crescent Institute of Science and Technology under Bharat Environment Program (BEP) organised Campus Green Audit on 27.04.2026 at BSACIST Campus



As part of the Green Audit initiative under the Bharat Environment Program, students actively participated in an on-campus field visit to understand sustainable waste



management and environmental protection practices. The program aimed to promote awareness about resource conservation and eco-friendly technologies.

Objectives

- To understand sustainable waste management systems
- To study renewable energy generation from waste
- To analyze environmental protection methods in real-time applications
- To encourage students to adopt eco-friendly practices

Activities Conducted

1. Visit to Biogas Generation Unit

Students visited the biogas plant where organic waste such as:

- Food waste
- Vegetable waste
- Fruit peels

are processed to produce biogas.



Key Learnings:

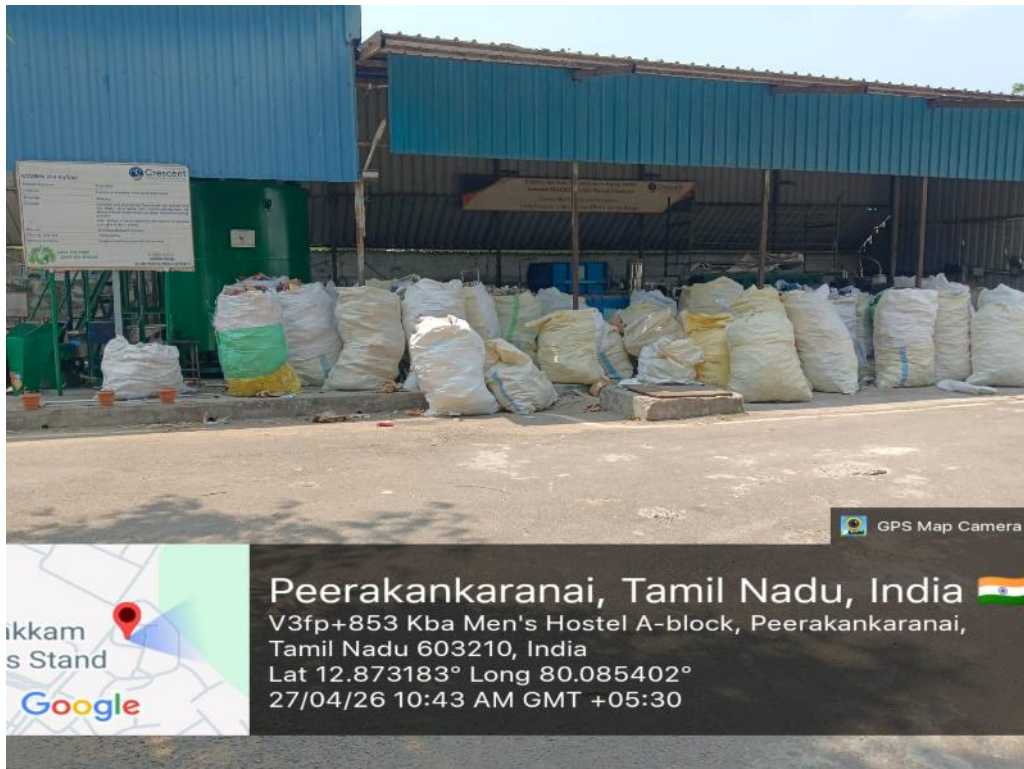
- Anaerobic digestion converts organic waste into methane-rich gas



- Biogas can be used as a renewable energy source
- Reduces landfill waste and greenhouse gas emissions

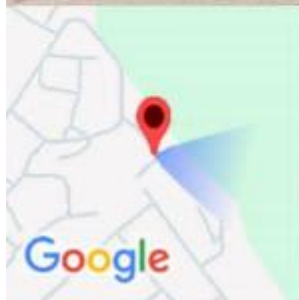
2. Manure Processing from Food Waste

The students observed how leftover organic waste is converted into manure through composting techniques.



Key Learnings:

- Organic waste is decomposed into nutrient-rich compost
- Supports sustainable agriculture practices
- Reduces dependency on chemical fertilizers



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3. Sewage Treatment Plant (STP) Visit

Students explored the functioning of the campus sewage treatment plant.

Key Learnings:

- Wastewater undergoes physical, biological, and chemical treatment
- Treated water is reused for gardening and other non-potable purposes
- Helps in water conservation and pollution control



Hence, Students gained practical exposure to environmental sustainability systems, Improved understanding of waste-to-energy and waste-to-resource concepts and developed awareness about responsible waste disposal and water management

The Green Audit visit provided valuable insights into sustainable campus practices. The exposure to biogas production, composting, and sewage treatment reinforced the



importance of environmental responsibility. Such initiatives play a crucial role in shaping environmentally conscious individuals and promoting a greener future.

Observation:

Energy Consumption (kWh): 433869

Power generation through solar and wind: 1013

Diesel consumed for generator: 233 litres

Water consumption (litres): 600000

Water recycled (litres): 550000

Sewage Treatment Available: yes

Sewage treatment Capacity (litres/day): 550000

Rainwater harvesting/water pits available : yes

Waste generated (kg): 800

Waste recycled (kg) :100

Waste Segregation available: yes

Bio gas generated from food waste: yes

Biogas Quantity : 500 kg

Number of trees on Campus : 2615

Green cover area: 25822 sq.meters