

SOLID WASTE MANAGEMENT SYSTEM
S D WOMEN'S COLLEGE RAJGANGPUR
Team, EMS, Rajgangpur

INTRODUCTION:

Sarbati devi women's college is located on a beautiful campus of near about 2 acres of land area in the midst of the Rajgangpur town. The whole campus is divided into 6 blocks including Academic and Non-academic parts. There are two girls' hostel buildings inside the campus, namely SILVER JUBILEE HOSTEL AND U.G.C HOSTEL. The college has adopted the Green Audit System for environment conservation and sustainability. There are three main pillars, i.e. zero environmental footprint, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO₂ emissions, energy and water use, Biodiversity conservation while creating an atmosphere where students can learn and be healthy. The college administration works on several facets of Green Audit including waste management, paperless work, hazardous chemical management, solid waste management, tree plantation, biomedical waste management and E-waste management for encouragement of environmentally friendly behavior.

OBJECTIVES:

The main objectives of the solid waste management system in the campus are to promote the environment management and conservation in the college campus.

- 1) To identify and categorize waste for environment sustainability.
- 2) To introduce aware students to real concerns of environment and its sustainability.
- 3) To cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.

OBSERVATION:

Various methods are adopted for solid waste disposal:

- 1) Construction of two compost pits are made in the college campus (one Vermicomposting pit and one bio-degradable compost pit). Waste generation from tree dropping, lawn management and kitchen waste are major solid waste generated in the campus. The manure generated by red worm in Vermicomposting pit is used as fertilizer in the college and hostel garden.
- 2) Papers and bottles are segregated at the source by providing separate dustbins for bio-degradable and plastic waste.
- 3) Single-side used paper is reused for writing and printing in all departments. Important and confidential papers are sent for pulping and recycling after completion of their preservation period to municipality. Project assessment has been done for no use of plastic as a part of Teaching and learning curriculum.

4) Waste water discharge from hostel kitchen and toilets are drained into the Master Drain of Local Municipality.

5) Eight number of Sanitary Pad Incineration machines are installed in two Girls hostel buildings for incineration of sanitary pads.

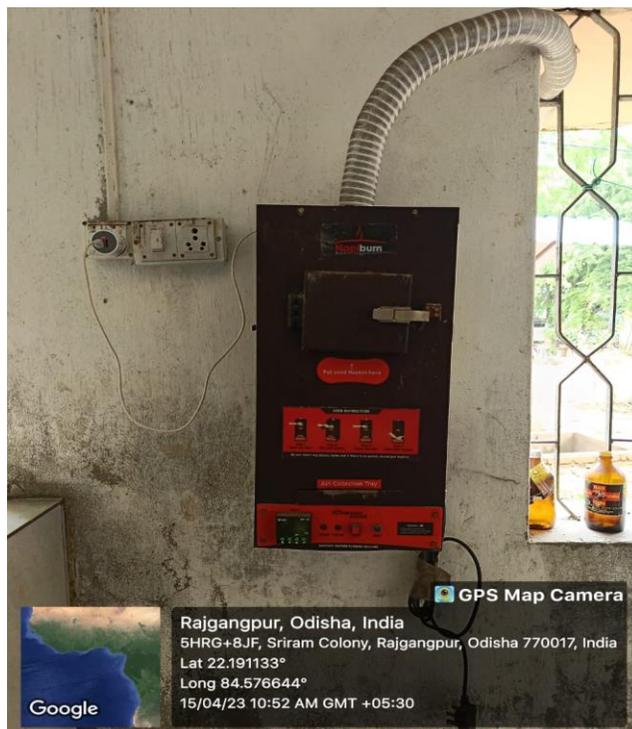
6) MOU has been signed with local municipality for non biodegradable solid waste and e waste management. In a regular weekend basis i.e. Saturday and Sunday municipality takes away e waste generated in the college.

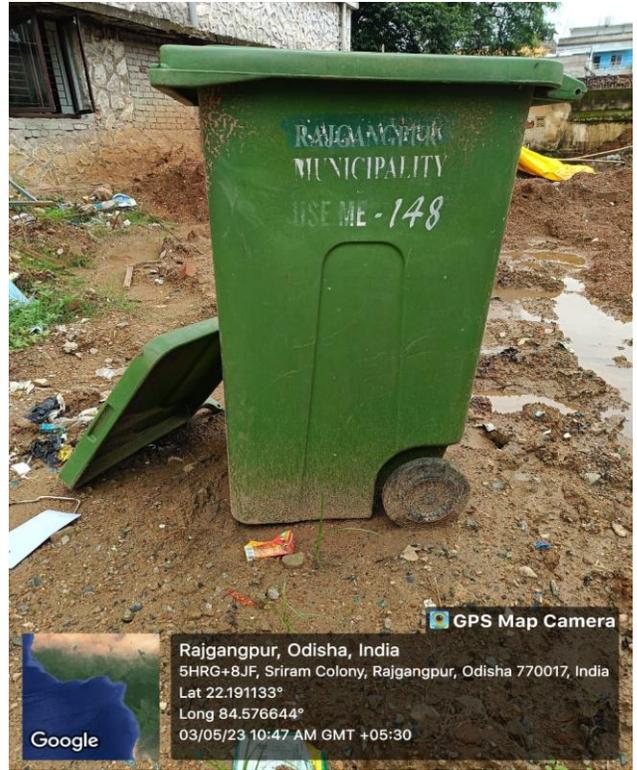
7) An agreement has been signed between MAA GOURI CHEMICALS, ROURKELA to take away the hazardous chemicals generated in laboratories.

8) Every Saturday is declared as NO VEHICLE DAY.

ACHIEVEMENTS:

- 1) Minimum plastic waste by no plastic policy.
 - 2) Minimum air pollution in the college campus.
 - 3) Zero solid waste generation through the method of composting.
 - 4) Green belt creation in campus.
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