

St. Ann's College for Women

(Autonomous), Affiliated to Osmania University
Accredited by NAAC with A⁺ Grade (3rd cycle), CPE by UGC

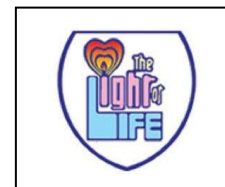
Mehdipatnam, Hyderabad.



CRITERION – VII

Institutional Values and Best Practices

7.1.3 Facilities in the Institution for the management of the degradable and non-degradable waste



Waste Management Report

The waste management practices at St. Ann's College are designed to ensure proper segregation of waste at the source and are segregated into biodegradable & non-biodegradable waste to facilitate recycling and resource recovery.

Biodegradable Waste Management

1. Solid Waste

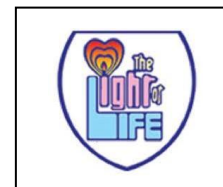
Twin Bin system on campus enables the segregation of waste into wet waste and dry waste.

- **Organic waste** generated from the garden is collected in an **organic manure pit** maintained by Department of Botany
- the Department of Zoology oversees vermicomposting where organic waste from the canteen is converted into **compost** using worms. Additionally, the vermicompost is packaged and sold on campus as part of the Zoology department's **green initiative called LIVOM.**
- The kitchen waste from the Nutrition lab is composted in a Khambha, and the resulting manure is used in the garden .
- Biogas Plant-Food waste on the campus is converted to **biogas in the biogas plant.**
- Lab- staff are trained by Eco club volunteers to compost the kitchen waste effectively.

Non- Biodegradable Waste Management

- Plastic Chemical bottles and waste handed over to ITC paperboard who provide us stationary in return.
- Sanitary pad incinerator is installed

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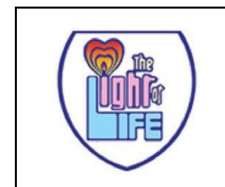


Solid Waste Management

Organic manure pit: Organic waste from Nutrition labs & garden waste is collected in a pit and the manure is used for the garden and nursery. The pit is maintained by Department of Botany.



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VERMICOMPOSTING

Department of Zoology maintains the vermicompost unit in the campus.

Vermicomposting is a process by which organic waste is converted to biofertilizer using earth worms. Vermicompost contains major and minor nutrients it also contains growth hormones, antibiotics and vitamins which are beneficial for the growth of crops, flowering and fruits settling and resistance to pest and diseases. Compost also contains calcium, humus which improves soil structure and moisture holding capacity.

Vermicompost Preparation

All vegetables and other fruits scraps or wet waste is dumped in to the vermicompost pit. Vermicompost by using earthworms are subjected to composting, worms eat organic waste and excrete the materials as the nutrient rich fertilizer contains high level of humus, so produced vermicompost is mixed into the soil

Place of Establishment of Vermicompost Pit

In the garden of St. Ann's college for women Mehdipatnam.

Reasons for Establishment

- To provide hands on training in vermicomposting.
- To minimize the organic waste in the campus.
- To prevent environmental pollution.
- To improve the quality of soil.
- To enhance germination, growth and yield.
- Biowastes conversion reduces waste flow to landfills.

Benefits of Using Vermicompost

- Produces higher quality crops and better yield than chemical fertilizer.

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- 100% recyclable and green- no pollution.
- Makes the plants healthy, resistance to diseases.
- Produces bigger and stronger plants and make flowering plants bear more blooms.
- Contains high level of humus.

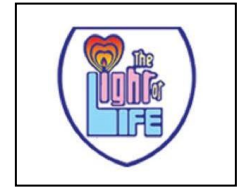
Coordinators: lecturers in charge: - Dr.K. Tabassum and Dr. Tasneem Jahan

Target group: Our UG students and school students of Neighbouring area Bojagutta.

This is an awareness and training programme in organic farming using vermicompost. It is aimed at providing an awareness and hands on experience to the students to take up organic farming in their premises. The stall was also put in the college campus in the first week of August by the student volunteers to sell the packets of vermicompost at a very reasonable price and volunteers motivate the people to know the importance of vermicomposting.



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Hyderabad, Telangana, India

G Pullareddy College, Ambedkar Colony, Mehdipatnam,

Hyderabad, Telangana 500028, India

Lat 17.39241°

Long 78.436738°

12/07/23 09:24 AM GMT +05:30

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Dry waste Management

Paper and Plastic recycling: Dry Waste is given for recycling

Eco club has trained students to segregate waste as dry and wet waste. Many campaigns, awareness programmes, invited talks, guest lectures are organised to create awareness on the importance of Waste segregation. Twin bin system is being implemented in the college.

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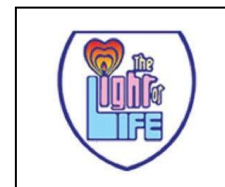
Regular Dry waste collection drives are organised and collected waste is given to Green Waves Environmental solutions for recycling. Eco club maintains a Dry waste centre where all the collected waste is stored and handed of on regular basis The college also has MOU with Earth Box for recycling paper and plastic waste collected from all Departments of the college..

Kitchen Waste Composting

Demonstration sessions are organised for environment education students on how to compost kitchen waste like vegetable and fruit peels . Also kitchen waste generated in Nutrition lab is composted in Khambha by the laboratory staff .



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Liquid waste management-

A laboratory liquid waste management system is planned which utilizes two soak pits for non-hazardous waste, facilitating groundwater recharge.

Hazardous chemical waste is contained separately and transferred to a disposal unit. Both types of waste are percolated through different systems, with percolation pits filled with gravel and river sand, doubling as rainwater harvesting systems, ensuring environmental safety and resource conservation.

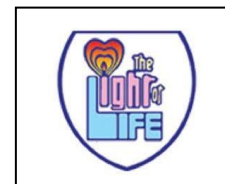
Liquid waste like acids and bases are diluted appropriately before disposal

In order to recycle and utilise 80% of the organic solvents, a distillation machine has been installed in science departments.

Utilising an inventory management system, staying away from long-term storage, and getting rid of outdated chemicals are all ways to avoid chemical stockpiling.

Green chemistry and microscale experimentation techniques are employed to reduce the production of hazardous wastes.

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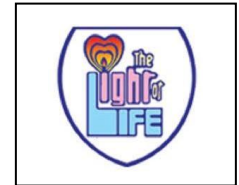
Micro-scale experiment In Chemistry Lab



Biomedical waste disposal in Science Labs

The collection of biodegradable waste necessitates the use of various types of containers and bins. For instance, all sharp metals, such as used finger-pricking needles, syringes and student disposable gloves are disposed of in red bins, pathological waste is disposed of in yellow bins, Biohazard and microbial cultures in blue bins. Sharp needles are housed in puncture-proof receptacles to protect attendees from harm and infection while also making handling them easier for staff. Each container has a clear label indicating what should be placed within it. Daily waste disposal takes place, and the trash cans are cleaned and used.

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9CVP+5WH, Street No. 2, opposite st Ann's college, Santosh Nagar,
Mehdipatnam, Hyderabad, Telangana 500028, India

Latitude
17.3929448°

Local 01:54:15 PM
GMT 08:24:15 AM

Longitude
78.4373585°

Altitude 531 meters
Thursday, 14.09.2023



12-2-823/A/33, St Ann's Rd, Santosh Nagar, Mehdiapatnam,
Hyderabad, Telangana 500264, India

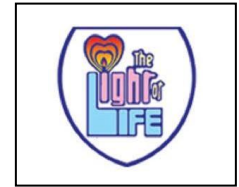
Latitude
17.3922169°

Local 12:10:13 PM
GMT 06:40:13 AM

Longitude
78.4373585°

Altitude 0 meters
Friday, 03-12-2021

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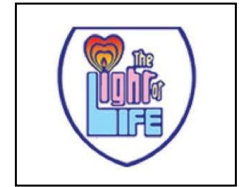


Autoclaving of used cultures before discarding @Microbiology Lab

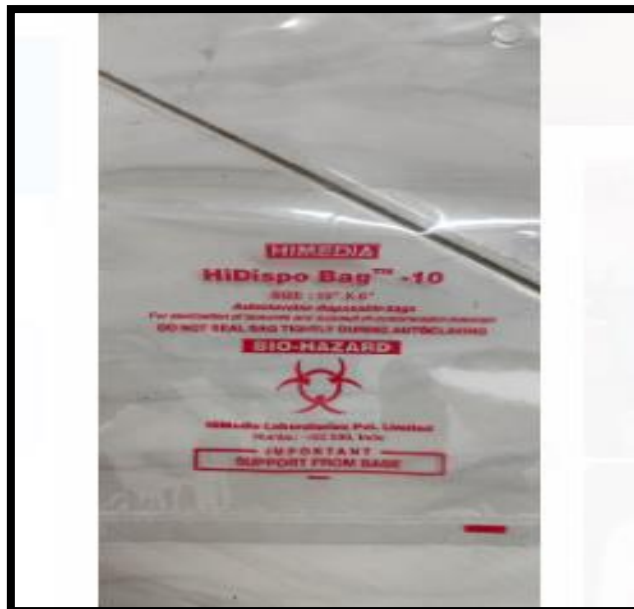


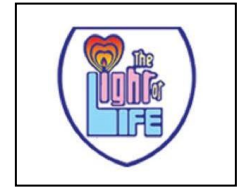
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Biohazard disposal @Microbiology lab





e-Waste Management at St. Ann's

ICT Center regularly takes up collection and safe disposal of e-Waste.

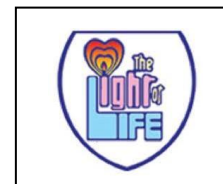
Students were advised to collect and store their e-Waste safely and deposit it at ICT Centre in e-waste bins provided.

Representatives from Cromax store visited the campus and collect e-Waste

Safe disposal or recycling was taken up by Cromax representatives

E-waste collection drives are organised on a regular basis.

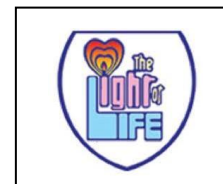




Details of Waste disposal and Recycling Strategy @St.Ann's

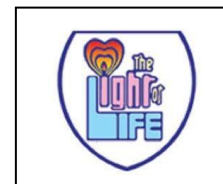
Types of Waste	Source	Disposal Strategy	Recycle Strategy
Liquid waste (Acids and Bases)	Chemistry /Biochemistry	Acids & Bases on site after lots of dilution into the sinks Percolation pits	--
Garden Waste	Garden	--	Garden waste composted in Organic Manure pit
Plastic Chemical bottles	Life Sciences & Chemistry labs	--	Empty plastic Chemical bottles handed over to ITC paperboard
Biomedical Waste	Very minimum in Zoology, Microbiology, Biochemistry labs	Incineration	Incinerated after collection in a Bio Hazard collecting bins & cover
Cloth Materials Waste	Old clothes	--	Green waves Environmental solutions
Electrical Waste (Wires, Switches, Fans, A/C, machines,	All departments	--	Croma

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Holder, Meters, Coils, etc.)			
Electronic Waste (Computer, Laptop, CD, Pen drive, Key boards, Mouse, Printers, UPS)	All Departments	--	Croma
Fluorescent Light Tubes	College campus	-	Municipal Waste
Food Waste/ Kitchen Waste	Nutrition lab and canteen		Composting in Khambha
Furniture Items	All classes, departments	Municipal waste	Municipal waste
Cardboards	Departments /Canteen	-	ITC Paperboard
Glass Bottles	Science labs	Municipal waste	Municipal waste/ITC Paper board
Broken Glassware	Chemistry /Science labs	Municipal waste	Reused as artifacts and sale(Initiated in 2022-23)
Hazardous Waste	Very minimum in Science labs	Autoclaving/Disinfection	Microbial cultures are autoclaved
Sanitary pads	Available	Incinerated	Municipal waste

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Lights and Bulbs	All departments		Municipal waste
Packaging Waste	All departments	--	ITC Paperboard
Paper Waste	All departments	--	ITC Paperboard
Plastic Waste	Very minimum in All departments	--	ITC Paper board
Salts used in Laboratories (Used & Expiry Chemicals)	Stockpiling of chemicals avoided	--	Stock registers maintained and monitored for order /purchase only required items
Trash Glass Metal General Trash	College campus	---	Municipal waste



Dr. Sr. P. Amrutha

Dr. Sr. P. Amrutha

Principal

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