BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
Rohilkhand Medical College & Hospital Campus, Pilibhit by Pass Road, Bareilly.
(U.P) – 243006 INDIA
E-mail: biucollegeofpharmacy@gmail.com

Waste Management Policy at BIU College of Pharmacy

Degradable, Biodegradable, and Laboratory Waste Disposal Guidelines

1. Introduction

The **BIU College of Pharmacy** is committed to sustainable waste management practices that ensure environmental safety and regulatory compliance. Proper segregation, handling, and disposal of **degradable, biodegradable, and laboratory waste** are crucial for maintaining a safe and eco-friendly research and learning environment.

2. Classification of Waste

1. **Degradable Waste**
   - Waste that takes longer to break down naturally and may not be fully environmentally friendly.
   - **Examples**: Plastics, synthetic materials, non-biodegradable chemical waste, broken glassware, polythene bags.
2. **Biodegradable Waste**
   - Organic waste that decomposes naturally through microbial activity.
   - **Examples**: Paper, food waste, plant materials, biodegradable solvents, and organic waste.
3. **Laboratory Waste**
   - Includes hazardous and non-hazardous waste generated in research and academic laboratories.
   - **Subcategories:**
     - **Chemical Waste** – Expired chemicals, acids, alkalis, solvents.
     - **Pharmaceutical Waste** – Expired drugs, reagents, samples.
     - **Glassware & Plastic Waste** – Used pipettes, test tubes, Petri dishes.
     - **Biomedical Waste** – Contaminated materials, biological samples.
     - **Electronic Waste** – Used batteries, lab sensors, outdated lab instruments.

3. Waste Collection & Segregation

- **Separate Color-Coded Bins for Different Waste Types:**
  - **Green Bin** – Biodegradable waste (food waste, paper, plant material).
  - **Blue Bin** – Recyclable degradable waste (plastic, metal, glass).
  - **Red Bin** – Hazardous chemical and pharmaceutical waste.
  - **Yellow Bin** – Biomedical waste (contaminated lab materials, expired drugs).
  - **Black Bin** – Electronic and e-waste disposal.
- **Labeling and Storage:**
  - All waste must be labeled with appropriate hazard symbols.
  - Chemicals and solvents must be stored in designated waste disposal containers.

4. Disposal Methods

4.1. Biodegradable Waste Disposal

- **Composting**: Organic waste (food, paper, plant material) is processed in compost pits for natural fertilizer.
- **Microbial Treatment**: Biodegradable chemicals are neutralized using microbial digestion methods.
- **Effluent Treatment Plant (ETP)**: Liquid waste from labs is treated before disposal.

4.2. Degradable Waste Disposal

- **Recycling**: Plastics, glass, and metal waste are sent to authorized recycling units.
- **Incineration**: Non-recyclable synthetic materials and pharmaceutical waste are burned at controlled temperatures.
- **Landfill Disposal**: Minimal non-recyclable waste is safely disposed of in government-approved landfills.

4.3. Laboratory Waste Disposal

1. **Chemical Waste**
   - Neutralization of acids and alkalis before disposal.
   - Organic solvents are collected separately for **solvent recovery or incineration.**
   - Heavy metal waste (e.g., mercury, lead) is stored in secure containers and sent for safe disposal.
2. **Pharmaceutical Waste**
   - Expired drugs and reagents are disposed of as per **CPCB (Central Pollution Control Board) and FDA guidelines.**
   - No pharmaceuticals should be disposed of in regular waste bins or drains.

3. **Glassware & Plastic Waste**
    - Broken glassware is collected separately and sent for recycling.
    - Disposable plastics (pipette tips, syringes) are sterilized before disposal.
4. **Biomedical Waste**
    - Collected in **yellow biohazard bins** and incinerated at authorized biomedical waste disposal centers.
    - Blood samples, culture plates, and biological materials are autoclaved before disposal.
5. **Electronic Waste (E-Waste)**
    - Batteries, lab sensors, and old instruments are collected separately and sent to **certified e-waste recyclers**.

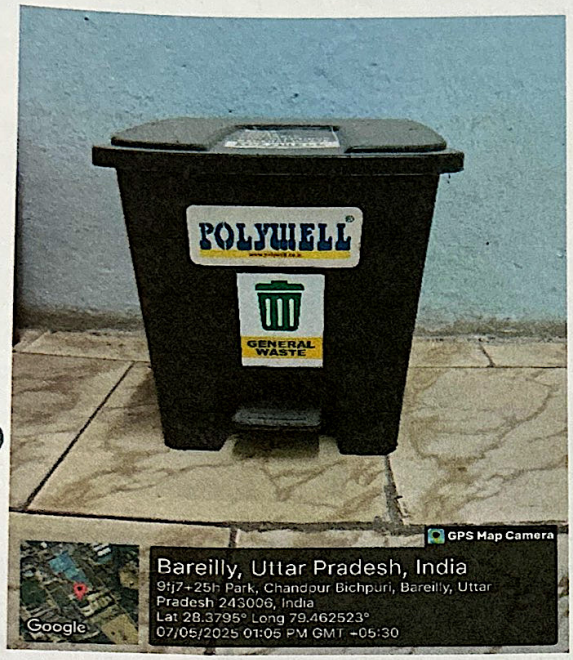
5. Waste Management in Laboratories

- **Implementation of Standard Operating Procedures (SOPs)** for waste handling.
- **Training and awareness programs** for faculty and students on lab waste disposal.
- **Regular audits and monitoring** to ensure compliance with waste disposal policies.
- **Safe storage** of hazardous materials in designated areas before disposal.

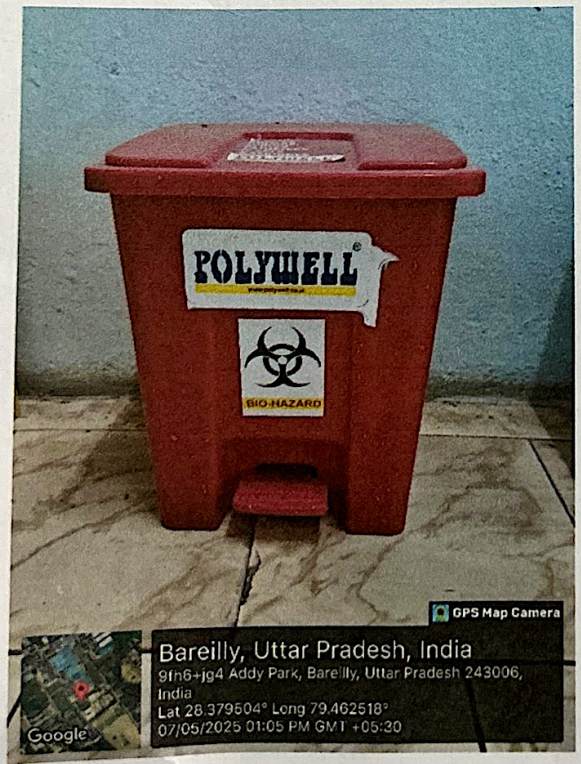
6. Monitoring & Compliance

- The **Waste Management Committee** at **BIU College of Pharmacy** will oversee waste segregation, collection, and disposal.
- Periodic **waste audits and compliance checks** will be conducted.
- Collaboration with **municipal waste disposal agencies** for hazardous and non-hazardous waste management.
- Implementation of a **Waste Tracking System** to document disposal procedures.

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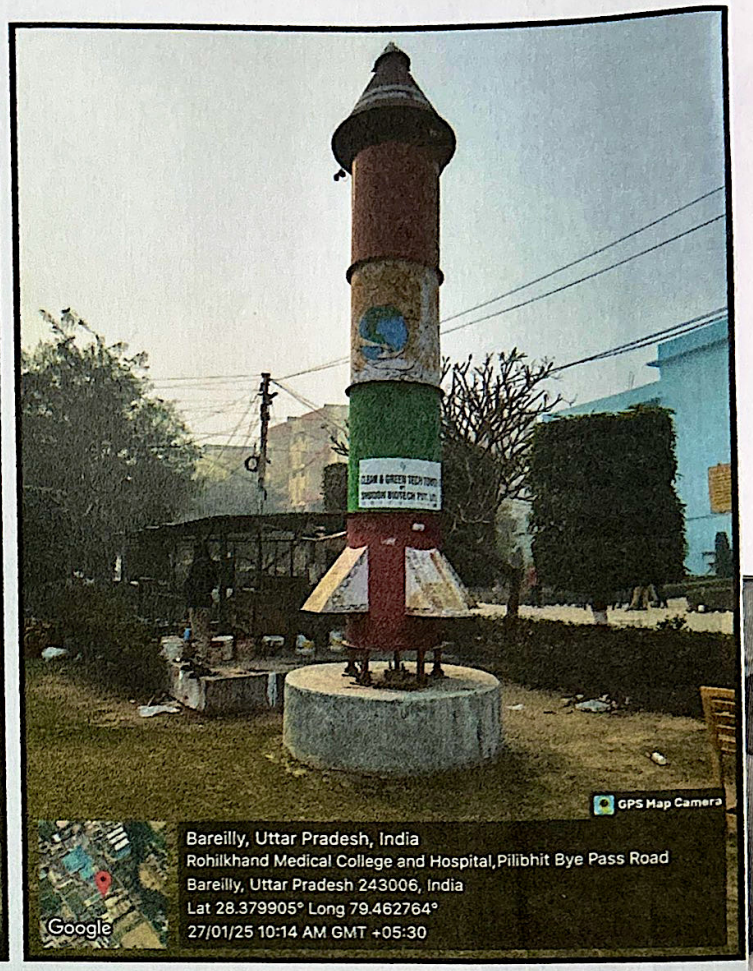
WATER SEWAGE PLANT





AIR PURIFIER





7.1.4

Water conservation facilities available in the Institution

7.1.4 Water conservation facilities available in the Institution (4)									
Rain water harvesting		**Borewell / Open well recharge**		**Construction of tanks and bunds**		**Waste water recycling**		**Maintenance of water bodies and distribution system in the campus**	
Yes	**~~No~~**	**Yes**	**~~No~~**	**Yes**	**~~No~~**	**Yes**	**~~No~~**	**Yes**	**~~No~~**
Upload Geo-tagged photographs of the facilities Any other relevant information									

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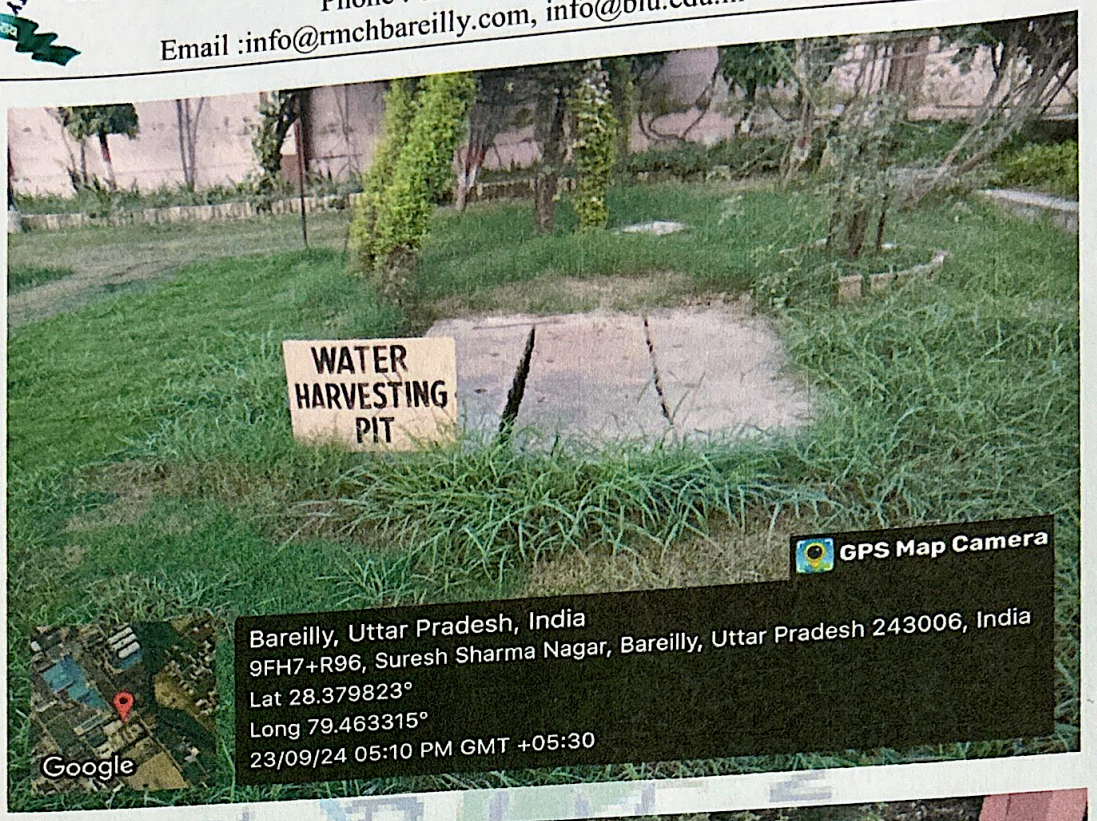
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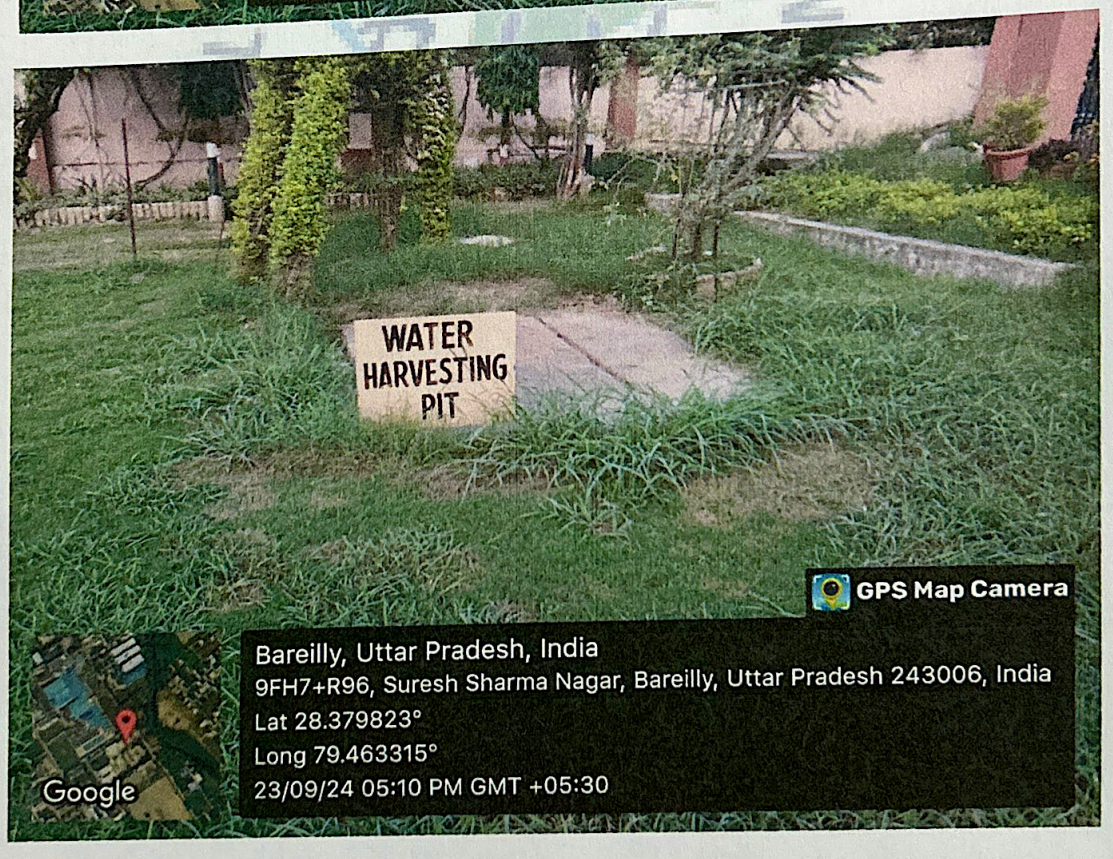
Geo-tagged photographs / videos of the facilities

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Rain Water Harvesting Pit

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Rain Water Harvesting

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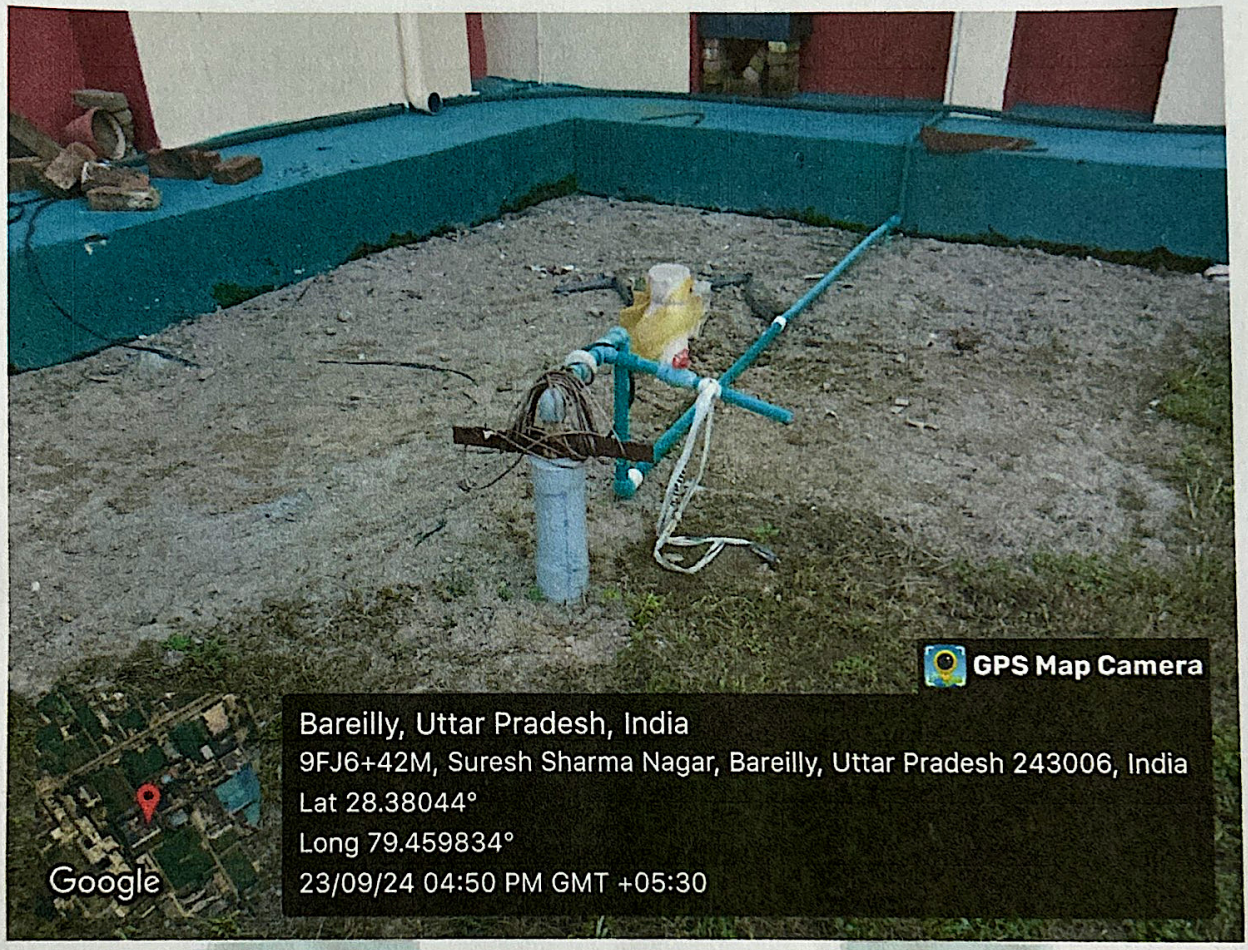
Borewell /Open well recharge

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Under Ground Water Tank

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Waste Water Treatment Plant

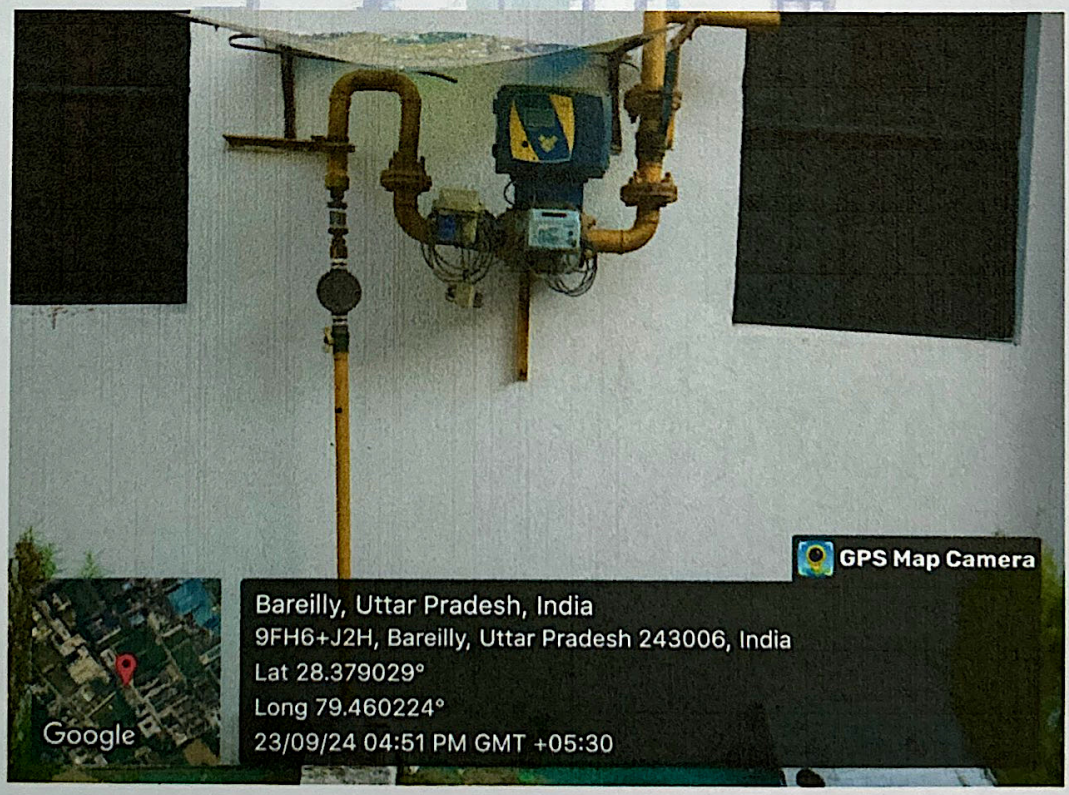
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Maintenance of water bodies and distribution system in the campus

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7.1.5

Green campus initiatives include

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Restricted entry of automobiles		**Battery-powered vehicles**		**Pedestrian-friendly pathways**		**Ban on the use of plastics**		**Landscaping with trees and plants**	
Yes	**~~No~~**	**Yes**	**~~No~~**	**Yes**	**~~No~~**	**Yes**	**~~No~~**	**Yes**	**~~No~~**
Documents: • Geo-tagged photographs of facilities • Any other relevant information									