



7.1.3 The Institution has facilities for the Management of the various types of degradable and non-degradable waste

- 1. Solid waste management**
- 2. Biomedical waste management**
- 3. E-waste management**





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Management of various types of Degradable and Non-Degradable Waste

For the management of various types of waste that is generated in the campus, following facilities are available in the campus

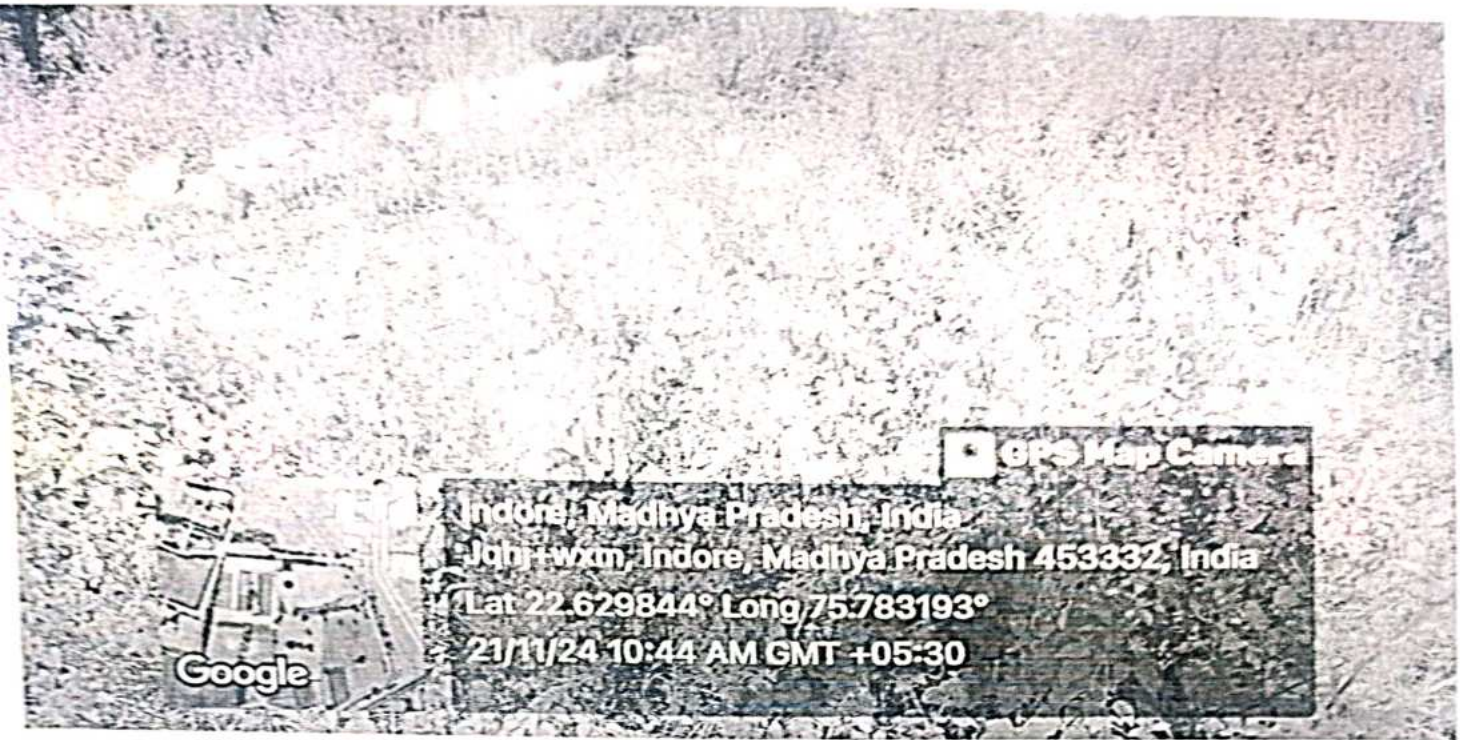
1. Solid Waste Management
2. Biomedical Waste Management
3. E-waste Management

Solid Waste Management

In the institute huge amount of organic waste is produced in routine and it is managed properly. Most of these wastes are biodegradable and can be converted into valuable resources that reduce their negative impacts. As a output of this composting process organic fertilizer is produced which is used in organic farming of the institute. The garden waste and kitchen waste of the Institute is converted into organic fertilizer. Organic fertilizer is being produced in a specific area where we have four composting pits.

Geotagged photo for Solid and Wet Waste Composting Pits

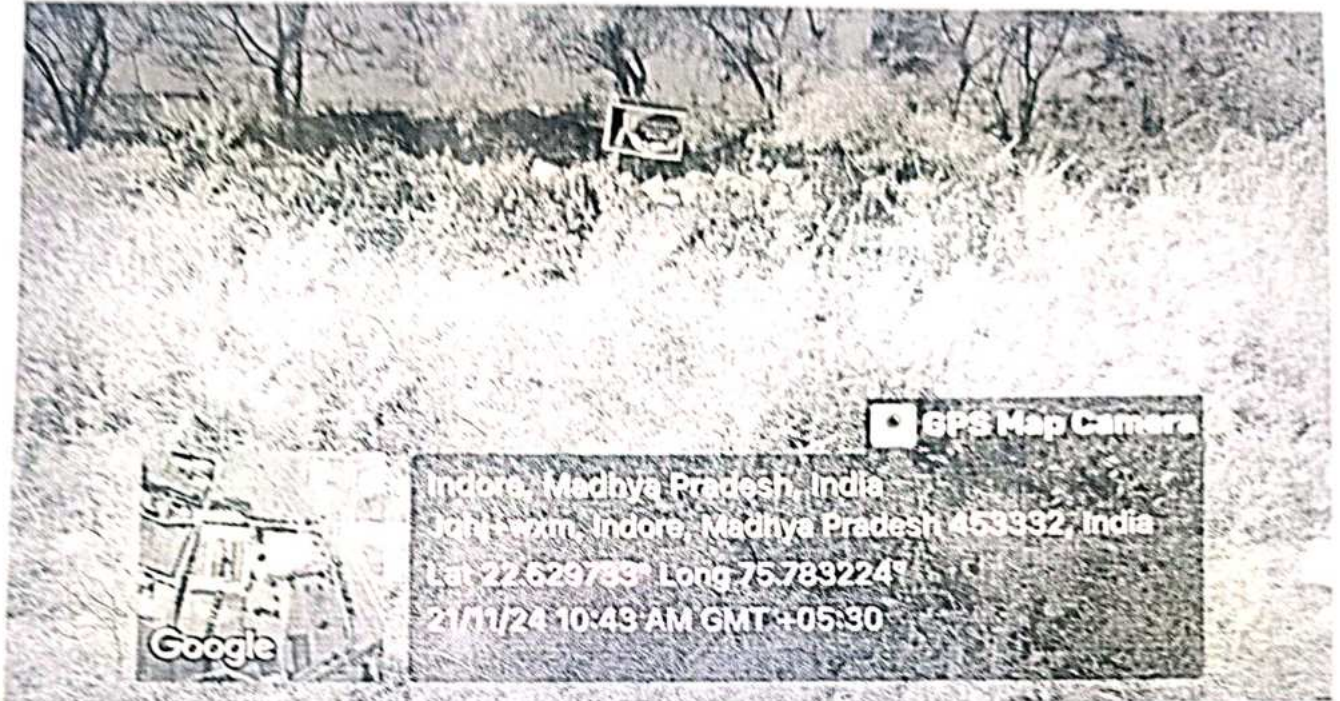




Solid Waste Management

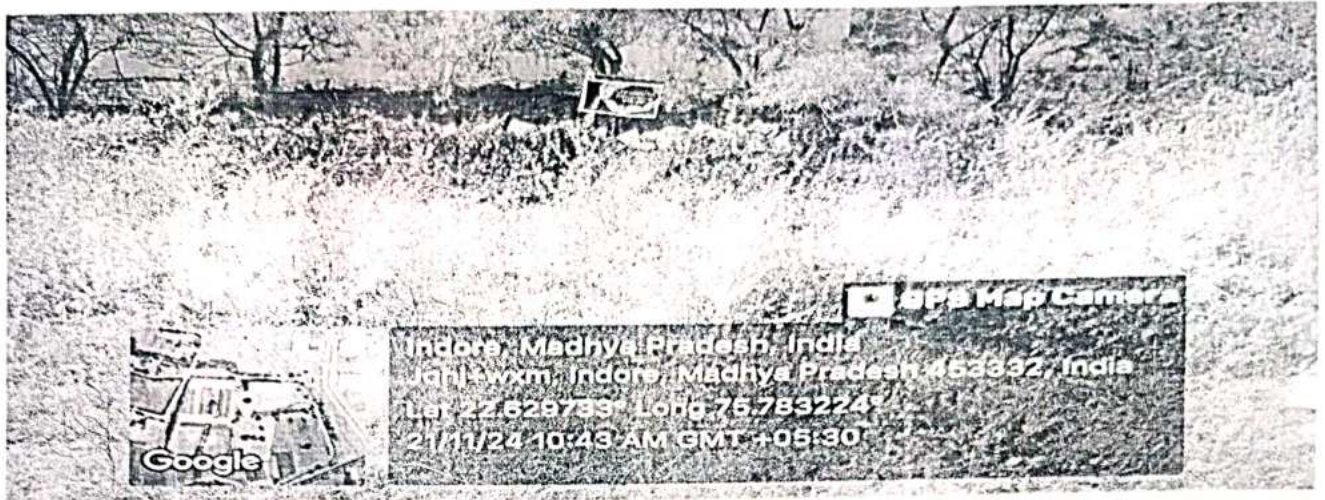


Organic Manure Preparation at Institute Campus

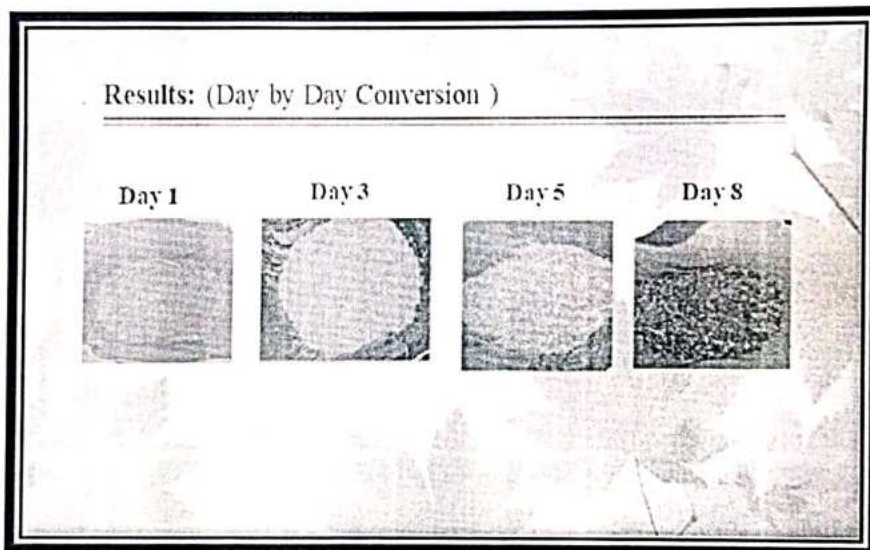




Sample of Organic Manure prepared in the Campus

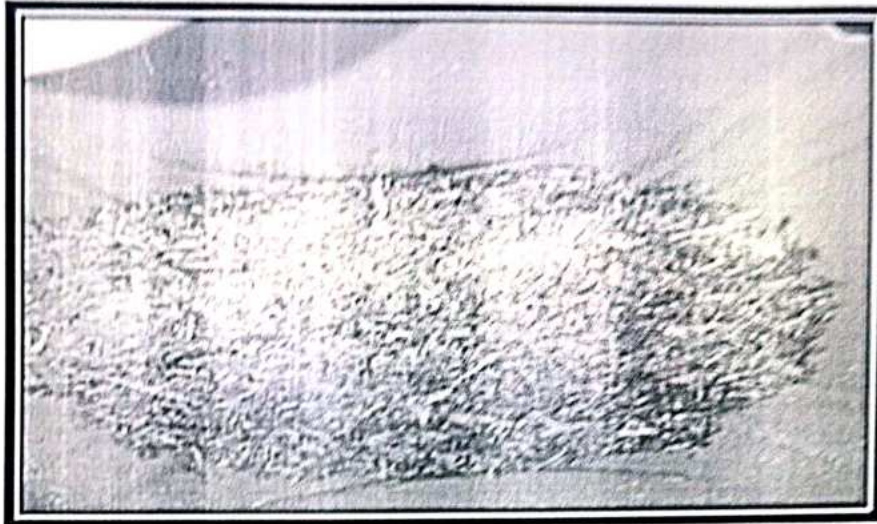


Process of Organic Manure Preparation





Sewage Treatment Plant Process



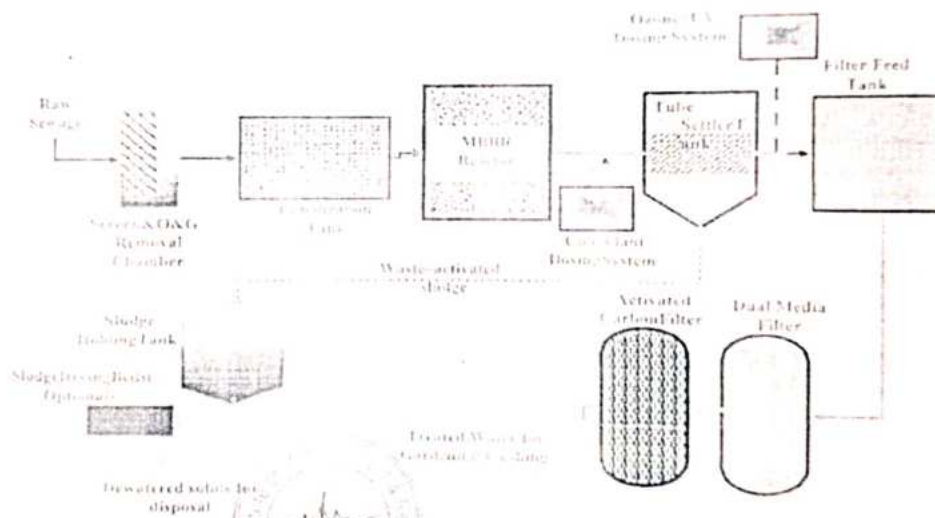
1. Secondary Treatment:

Secondary treatment is the process of removing organic matter from wastewater. It is more advanced than primary treatment and will be followed by tertiary treatment.

- > **Primary Treatment:**
Primary treatment consists of screening, grit & floating material removal, and sedimentation.
- > **Secondary Biological Treatment:**
Secondary treatment processes are based on the growth of microorganisms and biological degradation.
- > **Tertiary Treatment:**
Tertiary treatment processes include sand & carbon filters, UV & ozonation.
- > **Sludge Treatment:**
Sludge treatment process will involve sludge drying beds.

Plant Data Details:

1. Process Flow Diagrams (1)



Arnav 19

Arnav



2. Process Description Sewage Treatment Plant

The sewage treatment plant will be designed to handle a maximum flow of 1000 m³ per day. The plant will be located at the IIMR campus. The sewage will be collected from the hostel, library, and other buildings. The sewage will be treated in a two-stage process. The first stage is primary treatment, which involves screening and sedimentation. The second stage is secondary treatment, which involves biological treatment. The treated effluent will be discharged into the Indore Canal.

In the secondary treatment, the wastewater is aerated in aeration tank. The activated sludge is then separated from the treated effluent in a secondary clarifier. The sludge is recycled back to the aeration tank. The treated effluent is then passed through a sand filter and a carbon filter. The treated effluent is then discharged into the Indore Canal.

3. Equipment List

| Electro-Mechanical Equipments | | Quantity |
|-------------------------------|--------------------------------|----------|
| No. | Description | |
| 1 | Manual Bar Screen | 1No. |
| 2 | Raw Sewage Lifting Pump | 2No. |
| 3 | Blower | 2No. |
| 4 | Aeration Tank (with diffusers) | 1Set |
| 5 | Secondary Clarifier | 1Set |
| 6 | MHRP Sludge | 1Lot |
| 7 | Fine Settler Media | 1No. |
| 8 | Sand Filter Media | 2No. |
| 9 | Carbon Filter Media | 1No. |
| 10 | Effluent Pump | 2No. |
| 11 | Disinfection Chlorinator | 1No. |
| 12 | Effluent Discharge Pipe | 1No. |

Approved by

[Signature]

Indore Institute of Management & Research
 Indore



| S.No. | Description | Unit | Specification |
|-------|-------------|----------------|---------------|
| 1 | Water | m ³ | 1000 |
| 2 | Electricity | HP | 1000 |
| 3 | Water | m ³ | 1000 |
| 4 | Electricity | HP | 1000 |
| 5 | Water | m ³ | 1000 |
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| 97 | Water | m ³ | 1000 |
| 98 | Electricity | HP | 1000 |
| 99 | Water | m ³ | 1000 |
| 100 | Electricity | HP | 1000 |

Amnawing

[Handwritten signatures and stamps]



| Sl. No. | Name of the Plant | Family | Local Name | Medicinal Use |
|---------|--------------------------------|---------------|------------|---------------|
| 1 | 11. <i>Adiantum species</i> | Polypodiaceae | | |
| 2 | 12. <i>Asplenium species</i> | Polypodiaceae | | |
| 3 | 13. <i>Polypodium species</i> | Polypodiaceae | | |
| 4 | 14. <i>Trichomanes species</i> | Polypodiaceae | | |
| 5 | 15. <i>Phanerogam species</i> | | | |
| 6 | 16. <i>Angiosperm species</i> | | | |
| 7 | 17. <i>Gymnosperm species</i> | | | |
| 8 | 18. <i>Monocot species</i> | | | |
| 9 | 19. <i>Dicot species</i> | | | |
| 10 | 20. <i>Plant species</i> | | | |
| 11 | 21. <i>Plant species</i> | | | |
| 12 | 22. <i>Plant species</i> | | | |
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| 28 | 38. <i>Plant species</i> | | | |
| 29 | 39. <i>Plant species</i> | | | |
| 30 | 40. <i>Plant species</i> | | | |



Segregation of Garbage

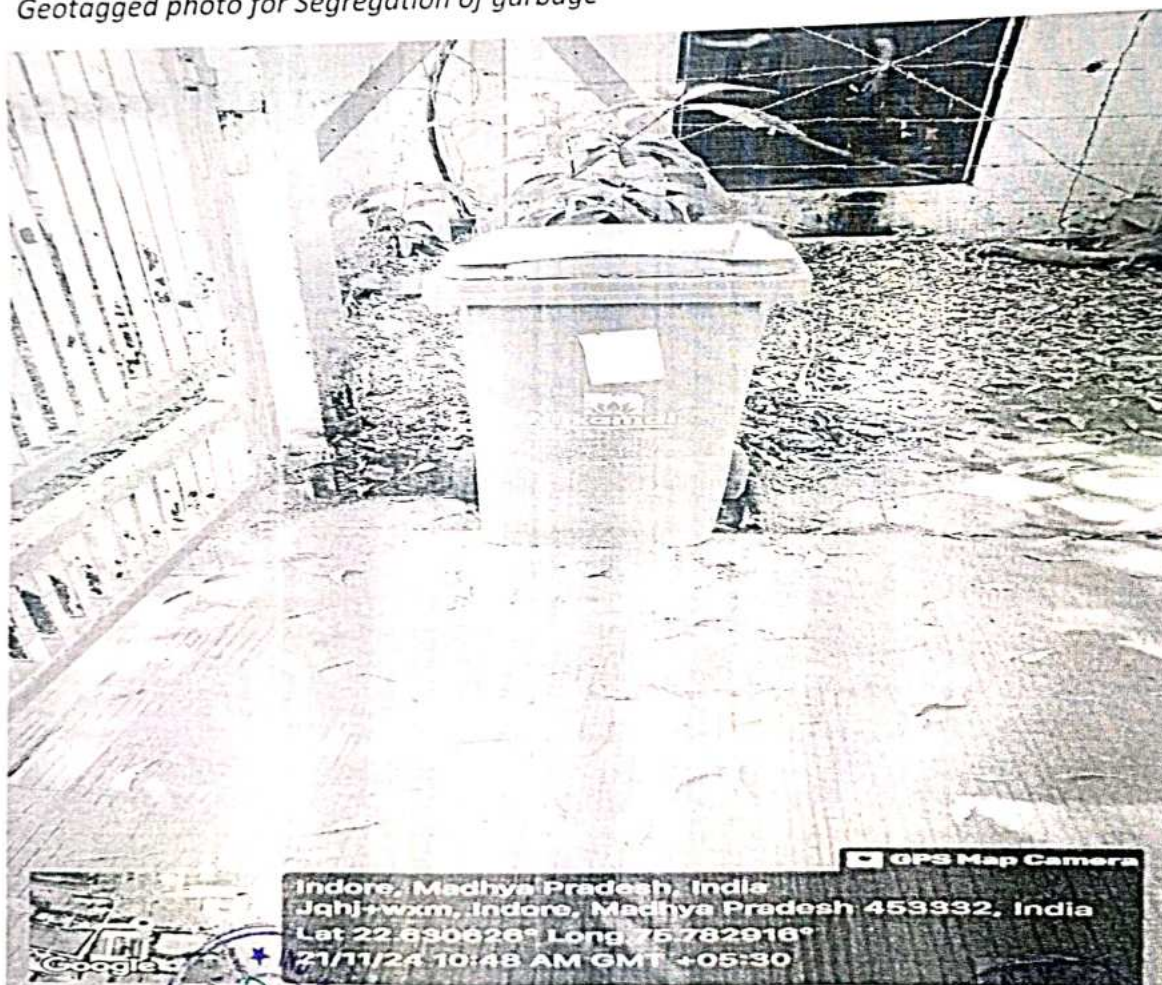
IIMR is part of Indore District (Indore City) which has been awarded as “Cleanest City in India” for fifth time in a row.

Although institute is located in rural area, but we follow all guidelines and norms defined by Municipal Corporation of Indore.

As a practice, we collect the “Gila Kachra” and “Shukha Kachra” generated in the campus into the separate green colored and blue-colored dustbins, and then the “Sukha Kachra” is sent to the Nagar Palika for further processing, and “Gila kachra” is composed in the campus itself for generating organic manure as described above.

A total of 25 dustbins are placed at different locations. (16 Outside and 14 In Main building).

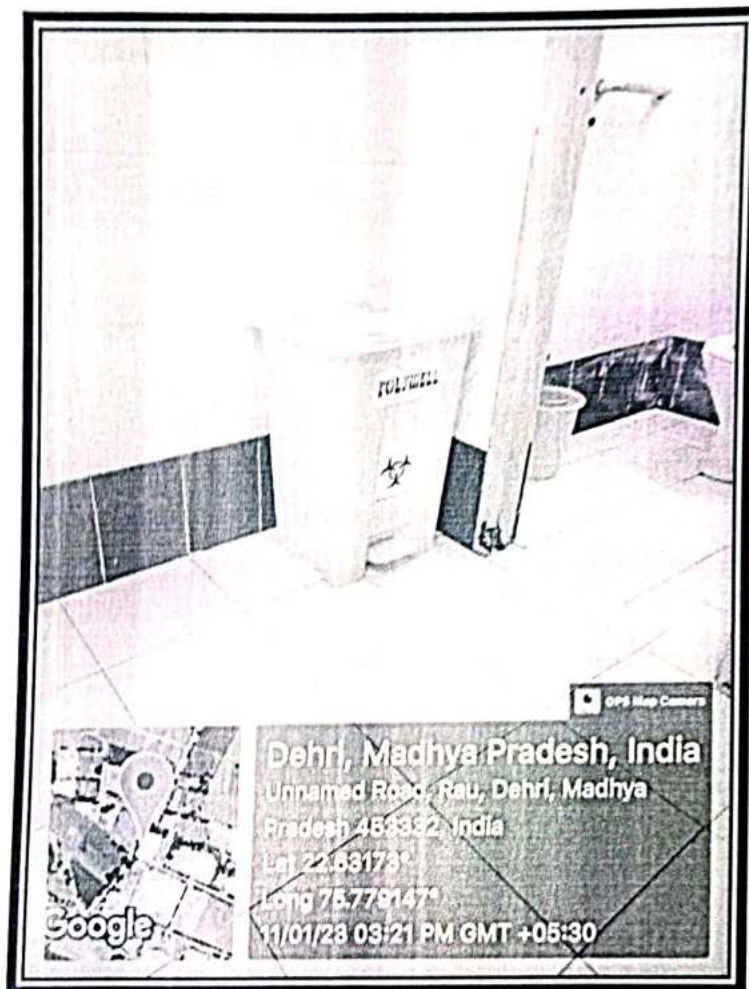
Geotagged photo for Segregation of garbage



Bio-Medical Waste Management

Biomedical waste like sanitary pads and other medical waste are incinerated in incinerators. For the disposal of sanitary pads we have a separate sanitary pad disposal garbage bins placed in the female's washrooms

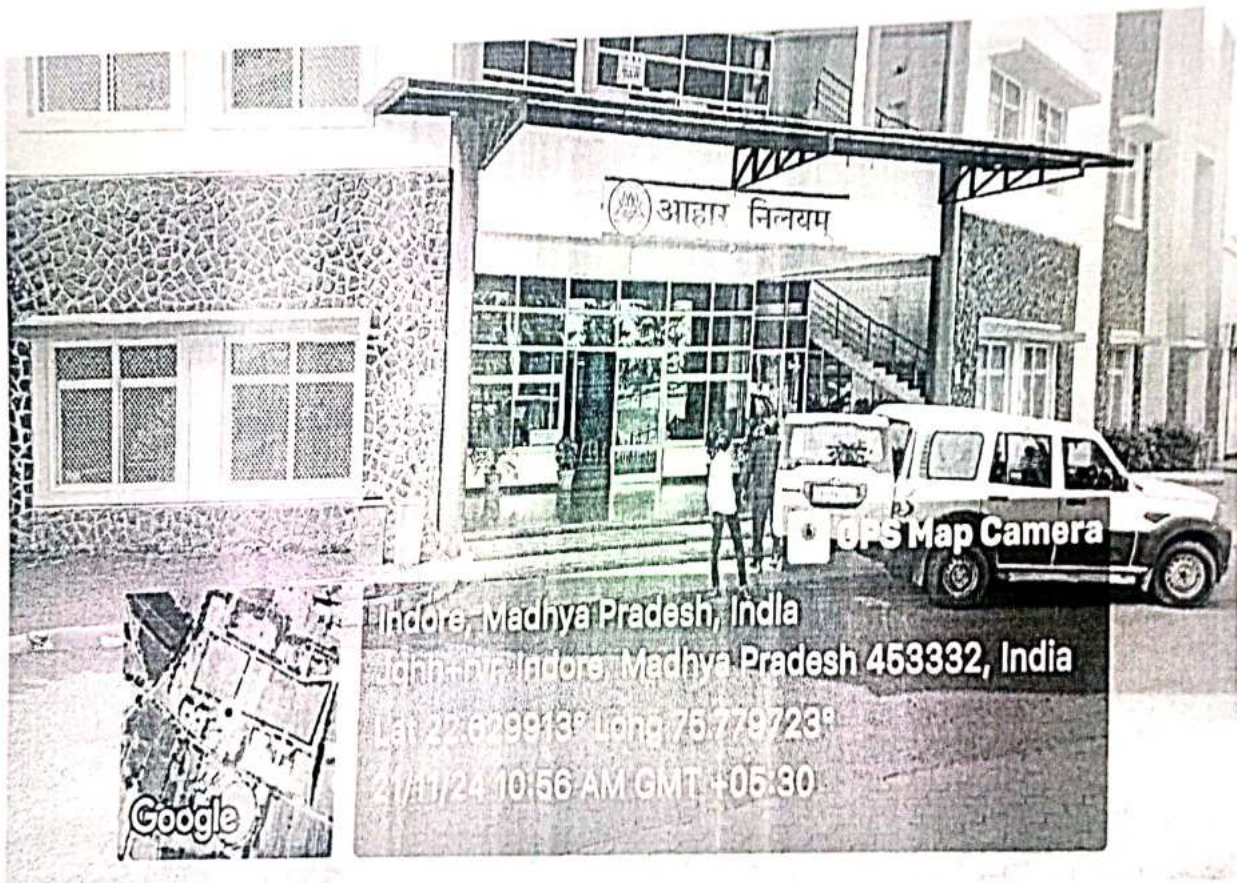
Geotagged photo for Bio-Medical Waste in girls washroom



E-Waste Management

IIMR has undertaken a number of E-waste Management initiatives with the objective of creating an eco-friendly environment in the campus. The institute has donated the old computers to the physically disabled students and peons. Apart from that the scrap parts of the machines has been resold to the computer servicing shops to reduce the amount of e waste. And there is a separate collecting dustbin for the small e waste like microchips wires etc.

Separate Dustbins for Collection of e-waste



Section 1
 GENERAL KNOWLEDGE QUESTIONS

| | |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1. The capital of Iraq is... | BAGHDAD |
| 2. The largest city in Iraq is... | BAGHDAD |
| 3. The official language of Iraq is... | ARABIC |
| 4. The national flag of Iraq consists of... | Three horizontal stripes of red, white, and black, with a green triangle at the top and a red triangle at the bottom. |
| 5. The largest river in Iraq is... | EUPHRATES |
| 6. The largest lake in Iraq is... | AL-HADITHA |
| 7. The largest city in the north of Iraq is... | ERBIL |
| 8. The largest city in the south of Iraq is... | AL-AMARA |
| 9. The largest city in the west of Iraq is... | MOBAKKAL |
| 10. The largest city in the east of Iraq is... | AL-ANDHAR |
| 11. The largest city in the north-west of Iraq is... | AL-ERBIL |
| 12. The largest city in the south-west of Iraq is... | AL-AMARA |
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| 99. The largest city in the west of Iraq is... | MOBAKKAL |
| 100. The largest city in the east of Iraq is... | AL-ANDHAR |

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