

# BHAGALPUR NATIONAL COLLEGE

(A Constituent Unit of Tilka Manjhi Bhagalpur University)

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## Waste Management at B.N. College, Bhagalpur

The Institute has created a suitable scientific system to ensure efficient trash disposal and management, in response to the growing amount of waste generated by its normal activities. Defined broadly, waste is everything that is not required or desired. Disregarding garbage, both liquid and solid, carelessly damages the environment and puts people's health at danger in the process. Reducing waste therefore requires the use of suitable corrective and remedial methods, such as lectures, notice board advertisements, slogan boards, and other means of raising public awareness of good waste management techniques. This management aims to convert the Waste to Organic Compost.

To ensure our institution's contribution to environmental protection, the following specific processes was implemented.

1. Dedicated attention is paid by the college to ensuring that waste generation on campus is kept to a minimum.
2. Materials to be separated in two categories such as bio degradable and non biodegradable waste and then only biodegradable materials will be thrown in the bio pit.
3. To keep the campus clean, garbage is separated into dry and moist categories and placed in uniquely designated dustbins at key areas.
4. Using reduce, reuse, and recycle (3R) as the foundation for sustainable resource management techniques.



5. Refuse, Reduce, Reuse, Repurpose, and Recycle are the five pillars of the college's zero waste philosophy.

### **BIO-WASTE ZONE**

A pit was created beside the second building of the college campus. The length, breadth and height of the pit is 6Ft × 4Ft × 8Ft respectively. It is fully covered with Green Net and in the rainy day preventive measures is always be taken.

The pit served as the dumping zone for the biodegradable materials, and on the daily basis the waste materials from the green dustbin and the institutions is thrown in the bio pits by the staffs . The gardner is appointed to take care the pit regularly. And Botany Dept. of the College is charged to observe the progress of waste degradation and Hence it results in efficient amount of organic compost which we used in various types of works in our college.

### **Various Uses of Bio Compost in Institutions: -**

1. Our Gardener only use organic compost for plants and flowers which promotes growth of greenery .
2. As we are using Organic compost , Our institution is free from chemical fertilizers which is harmful for the environment.
3. Improves plant growth and health. Increases plant rooting depth.
4. Provides plant nutrients in a stable organic form.
5. Improves physical, biological, and chemical soil properties.
6. Reduces soil erosion.
7. Provide a scientific approach for learning by setting this in the campus

**E-waste & Non-biodegradable Disposal:-** Institutions have a scarp committee to regularly monitor the process of e-waste, it also sells the scrap collected from the institutions and the money is submitted to the college fund.

### **Implementation of Waste Management in College.**

#### **1. Dustbins – Blue, Green and Red**

**Green Bin:-** It is used for wet and biodegradable wastes. It is also referred to as an organic bin. This waste is turned to zero waste through composting.

**Blue Bin:-** It is used for dry biodegradable wastes. Dry waste means literally dry, i.e., if the paper is dry, it is thrown in a blue dustbin and thrown in a green dustbin if it is wet.

**Red Bin:-** It is used for non-biodegradable (E-Waste, Plastic and others) wastes. Non-biodegradable waste is handed over to the municipality's solid waste management team.



**Fig1:- Green, Blue And Red Bin**

2. **Posters & Slogans to promote waste management efficiently. :-** We placed posters and pictures with slogans to promote “ Swachha Bharat Abhiyan” and maintain cleanliness in the college campus.
3. **Fine Charges for not following the waste management rules.:-** We strictly impose fines for the student or any other who does not follow the rules of Cleanliness in the college campus, this is governed by NAAC P.O of the college.
4. **Bio Waste Pit:-** A Biowaste pit was created near the second building of the college as it served as the dumping zone for biodegradable substances which have lately been converted into organic compost.
5. **Eco-Friendly Day:-** To create awareness regarding environmental policy amongst the students and management, We celebrate environment day on 5<sup>th</sup> June. As on day We plant as much plants, trees in our campus to make it clean and green.

## Functional Elements of Solid Waste Management System of B. N. College, Bhagalpur

