

## **SOLID WASTE MANAGEMENT**

The aim of this research is to promote the concept of “Zero waste” with an objective to reduce the environmental impact of solid waste. Waste collection and scientific management play an extremely important role in the global cleanliness and sustainability drive along with people’s health and the conservation of resources. As a university, we feel utmost responsible to encourage the students to understand the model of solid waste management considering the present scenario. Thus, initiation of solid waste management strategies was undertaken in Assam Don Bosco University. Planning the waste management and recycling for all of the kinds of waste generated in a region is an enormous task. To manage these wastes via scientific approach, proper understanding and logistic planning are the two essential keys to develop an effective end product out of waste.

### **Measures undertaken to implement the technology:**

1. Preparation of compost peat: A bio-compost peat was prepared inside the ADBU campus. The size of the peat prepared for the waste recycling process is (22×9×2.5) ft.
2. Collection and processing of waste: All kinds of organic wastes were collected from the ADBU campus. The collected waste was mixed with cowdung and earthworms to enhance the quality of composted product. Proper physiological conditions were maintained for a continuous period of two months.
3. Procreation of end product: A nutrient rich product is formed after the incubation of two months. The bio-composted product acted as a very good soil conditioner and facilitated crop growth. These organic nutrients were used as bi-fertilizers for the production of tea crop which covered an area of 120 acres in the University campus.

### **Benefits achieved after the completion of process:**

Amount of waste collected from the campus = 50 kg

Amount of bio-fertilizer generated from the collected waste= 35kg

Percentage of waste recycled= 100%

## Photographs:

### 1. Compost peat



### 2. Waste management activities:







### 3. Bio-organic fertilizer

