

# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY



## An Autonomous Institute

Approved by AICTE & Permanently affiliated to JNTU GV  
Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: [www.diet.edu.in](http://www.diet.edu.in), 9963993229 E-mail: [principal@diet.edu.in](mailto:principal@diet.edu.in)

## Criterion-7 Institutional Values And Best Practices

### 7.1.3 Institutional Infrastructure for Degradable and Non-Degradable Solid Waste Management

#### Instinctive nature of the Institute

| S. No | Parameter                             | Remarks   |
|-------|---------------------------------------|---|
| 1     | Climate                               | Climatic Features South West Monsoon Temperature: Max:34°C, Min:22°C Temperature over the plains: Max41°C Min20°C |
| 2     | Population                            | 2000+   |
| 3     | Distance from major cities            | 48 km from Vizag<br>80 km from Vizianagaram   |
| 4     | Total campus area                     | 10.50 acres   |
| 5     | Transportation                        | 10km from campus  |
| 6     | Normal Rainfall                       | 1071mm 42.2inch.  |
| 7     | Disposal/Composting bin               | 600 Cubic feet  |
| 8     | No of dustbins provided in the campus | 70No's  |

## **CURRENT WASTE ASSESSMENT AND EXISTING SOLID WASTE MANAGEMENT SYSTEM IN THE DIET CAMPUS**

### **Sources of solid wastes:**

- a. Classrooms
- b. Office rooms
- c. Examination cell
- d. Laboratories
- e. Canteen
- f. Stores/stationary section
- g. Play Ground
- h. Washrooms
- i. Construction works
- j. Dining section
- k. Seminar halls/Auditoriums
- l. Workshop section



### **Dust bin for dry and wet waste in the campus Segregation of Dry and Wet Waste**

#### **1. Waste Separation:**

To promote effective waste management, two garbage disposal bins are placed throughout the campus — one for dry waste and another for wet waste.

- Dry Waste: Includes items such as aluminium foils, tetra packs, glass, paper, plastics, and metals.
- Wet Waste: Includes kitchen waste such as stale food, fruit and vegetable remains.

#### **2. Drying of Wet Waste:**

Wet waste cannot be burned in its moist state. Therefore, it is first spread and left to dry in the open atmosphere for a few days. Once dried, it can be safely burned or processed further.

#### **3. Collection and Handling:**

- a. Dustbins are placed in various locations such as classrooms, corridors, office rooms, laboratories, canteen, and stores.
- b. Separate containers for dry and wet waste are provided in the canteen and throughout the campus.
- c. Pushcarts and additional bins are provided to collect and transport different types of solid and other wastes.

d. All collected waste is dumped at the composting unit for further processing and disposal.



**Canteen waste-Dry and wet waste**

### **Storage of solid wastes:**

Storage of waste at its source is the **first and most crucial step** in solid waste management.

Every educational institution, household, shop, establishment, and market yard generates solid waste on a daily basis. This waste should be **stored at the point of generation** until it is collected for disposal.

**Source segregation** — the separation of **recyclable (dry)** and **biodegradable (organic)** waste — plays a vital role in promoting effective resource recovery. It also significantly reduces the burden on landfill sites and minimizes environmental pollution.

Implementing such segregation practices requires **time, awareness, and active cooperation** from all stakeholders, including students, staff, and the public. However, gradual and consistent efforts towards source segregation lead to a **sustainable and efficient waste management system** within the campus.

Composting unit Area: 650 Sq.ft Composting unit Volume: 600 Cu.ft

### **Quantity of Solid Waste Generated**

The institution generates solid waste from various functional areas such as classrooms, laboratories, office rooms, examination cell, stores, seminar halls, and the canteen. The types of solid waste include waste paper, plastic wrappers, old records, debris, organic, and inorganic wastes. The collected waste is properly segregated at the source and disposed of daily through an organized collection mechanism.

### **Burning the wastes:**

On average, the campus generates approximately **20 kilograms of solid waste per day** from different sources within the premises. Since the quantity of solid waste is relatively low, **the waste is burnt daily**

at around 5:00 PM, and the resulting ash is transported to the dumping yard twice a week for final disposal

**Manpower:**

Adequate manpower is deployed by the DIET management to effectively carry out the waste collection, segregation, and disposal processes. Additionally, the institution has a Memorandum of Understanding (MoU) with Green Waves Environmental Solutions for the management and disposal of solid waste and e-waste (electrical and electronic waste) in an environmentally responsible manner.

Solid wastes like Waste papers, old records, old note books etc for Rs.10/-per kg.

**2. E-waste management**

| S. No | Parameter              | Availability        |
|-------|------------------------|---------------------|
| 1     | No of Computer labs    | 10                  |
| 2     | No of computer systems | 450                 |
| 3     | No of AC's             | 20                  |
| 4     | RAM                    | 16 GB&8GB           |
| 5     | ROM                    | 80 GB, 500 GB & 1TB |
| 6     | Graphic card           | 1TB                 |
| 7     | No. of Projectors      | 20                  |
| 8     | No. of Tube lights     | 150                 |
| 9     | No. of LED's           | 100                 |
| 10    | No. of FAN's           | 300                 |
| 11    | No. of TV's            | 04                  |
| 12    | No. of CC cameras      | 67                  |
| 13    | UPS                    | 20                  |
| 14    | Printers               | 20                  |
| 15    | Xerox machines         | 07                  |

Sources of E-Waste (Electrical, Electronics, Equipment & other sources of wastes):

1. Computer labs
2. Office section
3. Examination cell
4. Electrical Labs
5. Electronics Labs
6. Power grid/powerhouse
7. Classrooms
8. Rest rooms
9. Printers

10. Records



# Certificate of Recycling

GreenWaves Environmental Solutions

Reference:GWES0216045  
Authorisation:Z/APPCB/E-Waste/2016

Organisation Name DADI INSTITUTE OF ENG & TECHNOLOGY

GreenWaves Environmental Solutions Would like to thank and present this certificate for recycling obsolete electronic waste.

All The Material has been collected and handled in an environment friendly manner, in accordance with the guidelines set by the Central Pollution Control Board. We encourage you to continue the support for E-Waste management in environmentally friendly manner.

Weight: 1090 KG

Date: 08/06/2019

  
**Potluri Anil Chowdary**  
Managing Director  
GreenWaves Environmental Solutions

**E-waste from computer labs**  
**Certificate of Recycling from Green waves**  
Environmental Solution

  
**PRINCIPAL**  
**Dadi Institute of**  
**Engineering & Technology**  
**ANAKAPALLE - 531 002**