



Dadi Institute of Engineering & Technology

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC Accredited Institute and Inclusion of section 2(f) & 12 (B) of UGC Act

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution

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

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Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste

1. Solid waste management

S. No	Parameter	Remarks
1	Climate	Climatic Features Southwest Monsoon Temperature: Max: 34°C, Min :22° C Temperature over the plains: Max 41° C Min 20° C
2	Population	2000 +
3	Distance from major cities	48 km from Vizag 80 km from Vizianagaram
4	Total campus area	10.5 acres
5	Transportation	10 km from campus
6	Normal Rainfall	1071 mm 42.2 inch.
7	Disposal / Composing bin	600 Cubic feet
8	No of dustbins provided in the campus	70 No's

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

Sources of solid wastes:

- Class rooms
- Office rooms
- Examination cell
- Laboratories
- Canteen
- Stores / stationary section
- Play Ground
- Washrooms
- Construction works
- Dining section
- Seminar halls/Auditoriums
- Workshop section



Separating Dry waste & Wet waste:

Firstly, have two garbage disposal bins in the campus, one for dry waste and one for wet waste. Items like aluminum foils, tetra packs, glass, paper, plastics, metals, etc. fall under the dry waste category, whereas kitchen waste such as stale food, fruits and vegetables come under wet waste.

Drying wet waste:

We cannot burn wet waste as wet state, we should place the wet waste in open atmosphere to dry for few days after that, we can burn the waste.

Collection:

- Dustbins placed at various places like classrooms, corridors, office rooms, laboratories, canteen, stores etc.,
- Dry waste and wet waste separation containers at canteen and entire campus
- Providing Push carts/ dustbins to collect different types of solid and others types of wastes.
- Collected waste dumped at composting unit.



Storage of solid wastes:

Storage of waste at the source is the first important step of solid waste management. Every educational institutes, household, shops establishments, market yards etc., generate solid waste on day-to-day basis. The waste should normally be stored at the source of waste generation till collected for disposal.

Source segregation of recyclables and biodegradables (organic waste) will not only provide an efficient way for resource recovery, but will also substantially reduce the pressure and pollution at Landfill sites. It is understood that implementation of such practices takes time and requires significant cooperation from the public. However, initiation should be made and efforts should be diverted to progressively increase the segregation practices.



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

Quantity of Solid Waste:

In the campus we are having so many Classrooms, Labs, office room, exam cell, stores, seminar halls, canteen etc., so that solid wastes like waste papers, wrappers, records, debris, organic wastes, inorganic wastes etc., collecting these wastes on daily basis.

On an average per day we are getting 20 kg solid wastes from different sources.

Burning the wastes:

We are getting very less bulk quantity of solid wastes from different places in the campus so that, burning the waste at 05:00 PM on daily basis.

And exporting that burned ash to dumping yard by weekly twice.

Man power:

Better no of staff maintaining by DIET management for this scope of work to meet objectives. We have a MoU with Green waves environmental solutions for solid wastes along with e-

wastes(Electrical, Electronics wastes).

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

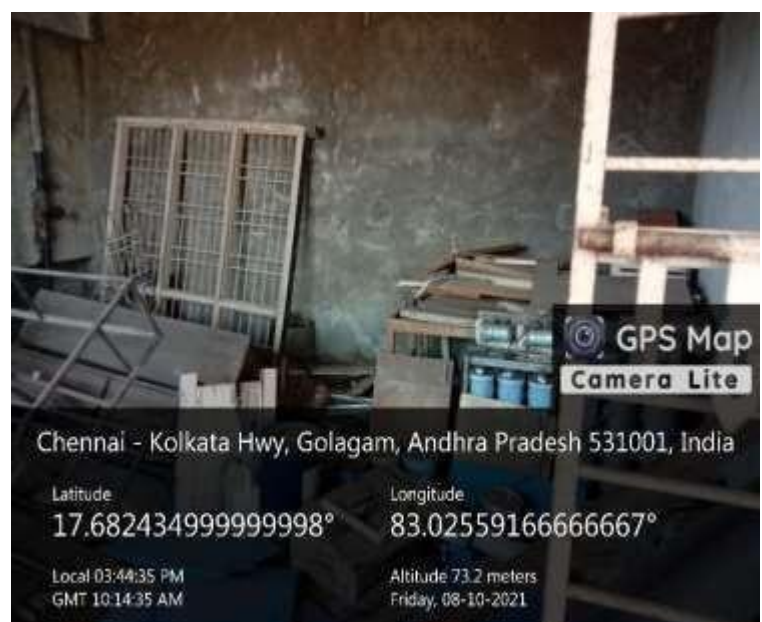
2. E - waste management

Salient Features of DIET

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 & 8 GB
5	RoM	80 GB, 500 GB & 1 TB
6	Graphic card	1 TB
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/ power house
7. Class rooms
8. Rest rooms
9. Printers
10. Records



Certificate of Recycling from Green waves Environmental Solutions



Certificate of Recycling

GreenWaves Environmental Solutions

Reference: GWES0216045

Authorisation: 2/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.

Weight: 1090 KG

Date: 08/06/2019

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.

P. Anil Chowdary
Potluri Anil Chowdary

Managing Director
GreenWaves Environmental Solutions

3. Liquid waste management

Proposed tank for purification waste water from laboratory and hostels.

4. Waste recycling system

Tests on RO rejected water

Name of test	Result
Temperature	29.1°c
PH	9.94ppm
Conductivity	7.395ms
Turbidity	137Ntu
Dissolved solids	1094ppm
Hardness	306.25ppm
Acidity(methyl orange indicator)	605ppm
Acidity (phenophthalein indicator)	27.5ppm
Alkalinity (methyl orange)	352.5ppm
Alkalinity(phenophthaleinindicator)	27.5ppm
Chlorides	744.56ppm
Dissolved oxygen	9.5 mg/lit
Total solids	60000mg/lit

