



**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE (GIRLS) KOTHAGUDEM**

Bhadradri kothagudem district, Telangana state-507101

(Affiliated to Kakatiya university, Warangal, Telangana)

Website: <https://ttwrdds.ac.in/>. kothagudem

**Criterion 7
Institutional values &
Best practices**

7.1.2 facilities and initiatives

- **Alternate sources of energy and energy conservation measures**
- **Management of various types degradable and non-degradable waste**
- **Degradable and Non-degradable waste**
- **Water conservation**
- **Green campus initiatives**

Biomaterials waste management

The Government of Telangana has established TGTWRDC with the motto of providing higher education and to give lifelong learning skills to students from the beginning of the establishment. As part of maintaining the hygiene at Gurukulam, Biomaterials waste management is done at the campus premises.

Objectives:

- To protect groundwater sources
- To Ensure sustainability
- To minimize the production of waste

It involves the proper handling treatment, and disposal of the waste generated by healthcare facilities. This waste includes items such as blood- soaked bandages and other potentially infections materials.

- **Yellow bags**

- Infectious waste Bandages
- Gauze
- Cotton or any other objects in contact with body fluids

- **Red bags**

- Plastic
- Gloves

- **Blue bags**

- All types of glass, bottles
- Broken glass articles
- Out dated and discarded medicines

- **Black bags**

- General waste



Management of the degradable and non- degradable waste

Solid waste management

Objectives:

- To ensure safe disposal and reduce the adverse effects of waste on human health, environment, planetary, resources.
- To collect the samples that can be analyzed to determine chemical composition.
- To reduce the quantity of potentially toxic or hazardous materials discharged to the environment.

As a part of it, the college, maintains solid waste management procedure to manage the waste to protect and create a clean and pleasant environment. Regularly the solid waste is collected from the dust bins placed at both the academic campus and hostel. The whole waste is segregated as Non-Degradable and Degradable waste in different bins. Degradable waste is used for composting which is dumped for vermicompost preparation.

- **Degradable components:** Vegetables waste, Plant leaves, Food waste, Sewage waste etc.

Non-Degradable components: Papers, Plastics, Metals, Water bottles, Glasses, Grocery bags etc.

Collection of Non-Degradable waste in separate bins



Blue for papers



green for glass



Dry and Wet waste



Red for Metal



The non-degradable waste is handed over to Municipality



Bio degradable waste for preparation of vermicompost

RAIN WATER HARVESTING (RWH)

The essential component that is playing vital role for the protecting the natural resources is water conservation. This was done through rain water harvesting system. It is an ideal solution for water requirement especially during the summers when the people face water scarcity. The rain water harvesting system increases ground water level and quality, while reducing the run-off.

Objectives:

- To make the students to practice the simplest method of conservation .
- To increase the availability of water during summer season.
- To commit to longer term storage or ground water recharge



Liquid waste management (RO Plant)

The college gives priority to the student's health and hygiene. As part of it, T.W.R.D.C(G) Kothagudem provides pure drinking water to students through RO plant.

Objectives:

- To make the students aware of the collection of the R.O water
- To utilize the collected water for daily human activities
- To make sure that the discarded water is reused.





Water tank facilities



E-Waste Management

As technology continues to advance, so does the production of electronic devices, leading to a growing amount of electronic waste or e-waste. E-waste is any electronic equipment that is no longer in use or has become obsolete, including computers, cell phones, televisions, and other electronic devices. Proper disposal of e-waste is important as it can have harmful effects on the environment and human health.

E-waste is an important issue that requires careful consideration and responsible disposal

Objectives:

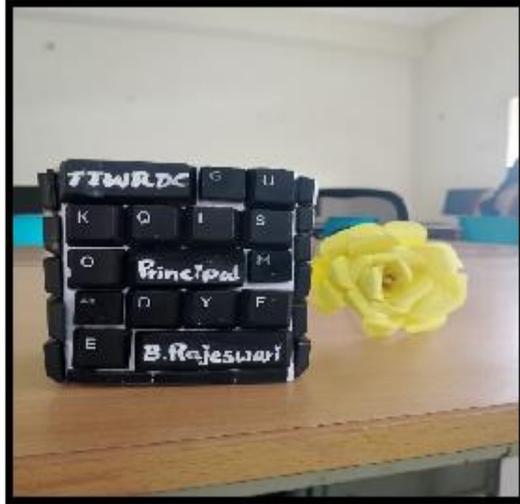
- The major objective of e-waste management is to reduce, reuse, and recycle.
- Managing e-waste in and around college campuses is crucial due to the rapid turnover of electronic devices like computers, laptops, smartphones, and peripheral
- Partnerships with Recycling Companies:
- Reuse Programs



E Waste Materials in Campus



Source Separation





Recycling the e-waste and preparation of various articles

WASTE RECYCLING MANAGEMENT

Preparation of Vermicompost

Objectives:

- To reduce the waste material in academic as well as in the hostel campus.
- To reduce pollution in environment by decomposing the waste material
- To provide nutritive manure to the plants and trees in the campus for healthy growth.



Collection and drying of vegetable waste from kitchen





Preparation of vermicompost



collecting of vermi wash



Compost utilization to the plants at campus



Selling of prepared vermicompost



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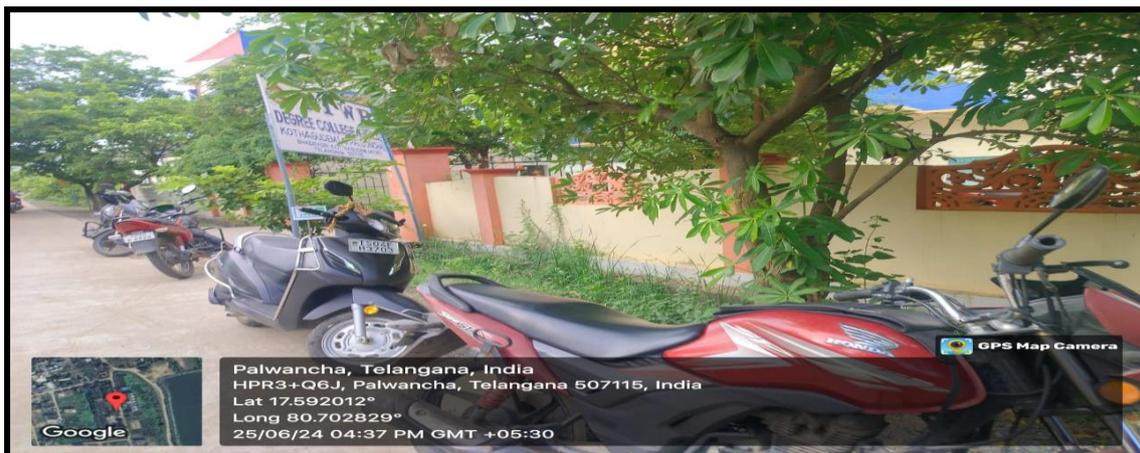


Green campus initiatives

1. Restricted entry of automobiles
2. Pedestrian friendly pathways
3. Ban on use of Plastic
4. Paperless PG weekend Tests
5. Landscaping with trees and plants
6. Use of Dustbins

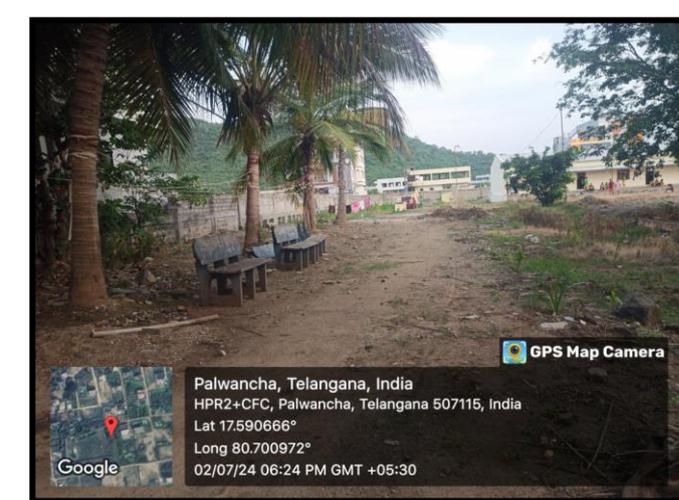
Restricted entry of automobiles:

The institution encourages the staff to use vehicles with pollution check stickers to reduce environmental pollution. Vendors are restricted to enter into the campus. The approach road from the main road and roads with in the campus are laid with tar 20 feet width. The path from the main gate to the academic building has pedestrian friendly foot paths



Pedestrian Friendly Pathways:

Vehicle parking space is provided at the main entrance of the college campus as well as in the hostel campus. As the campus is free of automobiles, the staff and students experience comfort walking through these ways. The internal roads are lined with trees and they are properly maintained by the concerned committee.



Ban on use of Plastic

Campus is well maintained and positive efforts are made to be Plastic free zone. Students are given awareness on the importance of maintaining the campus clean and green. Our students themselves volunteers and organizes the programs such Swachh Bharath through NSS in the campus.



Awareness programme conducted on “Reduce plastic use and single use plastic ban”

Paperless PG coaching weekend Tests: As per the instructions received from the TTWREIS, Hyderabad, PG coaching is provided to the final year students along with the academics. For this the faculty used to conduct the weekend test online without using papers.



Use of Dustbins:

Dustbins are placed at many of the places in the campus for easy access of solid waste throw. Plastic is avoided as far as possible.



Landscaping with trees and plants: Institution campus is maintained with greenery and trees. Green landscape is well maintained at all blocks. Trees are grown on either side of road in the campus




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