



KASIREDDY NARAYANREDDY COLLEGE OF ENGINEERING & RESEARCH.

(Approved by AICTE & Affiliated to JNTUH)

Abdullapur (V), Abdullapurmet (M), R.R Dist, 501505, Telangana, INDIA.

Email : principal@knrcer.ac.in ; website: www.knrcer.ac.in

Solid Waste Management

Collection of Degradable and Non-Degradable Waste:

Degradable waste includes organic materials that can be broken down naturally by micro organisms. Sources in College:

- Food Waste: Leftovers from dining halls, cafes, and snack bars.
- Yard Waste: Land scaping debris, grass clippings, and leaves from college grounds.
- Paper Products: Unused paper, cardboard boxes, and non-coated paper from classrooms and offices.

Collection Strategies:

1. Separate Bins: Implement clearly labeled bins for composting food scraps and other organic materials in dining areas and common spaces.
2. Education Campaigns: Organize awareness programs to inform students and staff about composting and its benefits.

Non-Degradable Waste in College

Non-degradable waste consists of materials that do not breakdown naturally or take a very long time to decompose.

Sources in Colleges:

- Plastics: Bottles, containers, and wrappers from campus stores.
- Metals: Aluminum cans from beverages and food packaging.
- Electronic Waste: Old computers, batteries, and other technical equipment.

Collection Strategies:

1. Recycling Programs: Establish separate recycling bins for plastics, metals throughout the campus. Make sure they are easily accessible and clearly marked.
2. Awareness Initiatives: Run campaigns to educate the campus community about the importance of recycling and the proper disposal of non-degradable waste.

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Dry and Wet Wastage Separation during the Collection

Transportation of Solid Waste for Decomposition:

Transportation of solid waste for decomposition, often through processes like composting or anaerobic digestion, is a crucial part of effective waste management.

Here some aspects of this process:

Steps in Transportation

Collection: Solid waste is typically collected from various sources, including residential, commercial, and industrial areas. This is often done through scheduled pickups by waste management services.

Segregation: Before transportation, waste is often sorted into different categories (e.g.,

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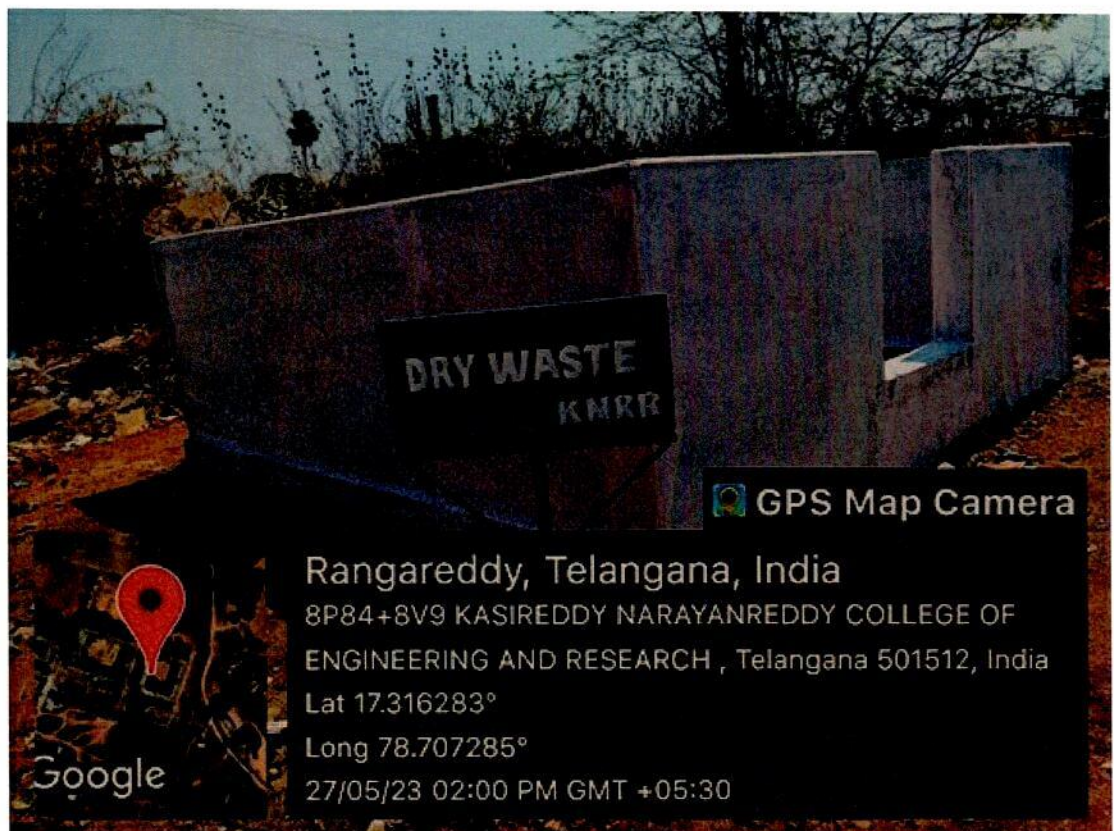
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organic, recyclable, hazardous) to facilitate appropriate processing later on.

Transportation Vehicles: Specialized vehicles designed for solid waste transport are used. These can vary in size and type, from compactors to open-top trucks, depending on the waste type and destination.

Destination: The waste is transported to facilities equipped for decomposition, such as composting sites or anaerobic digestion plants.



DRY Waste Pit at KNRCER

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Collection of Dry and wet waste by Gram Panchayth Vehicle

Liquid Waste Management:

Waste Liquid Flow Connected to Natural Drain:

Connecting waste liquid flow to a natural drain, such as a river, creek, or wetland, involves various considerations related to environmental impact, legal regulations, and proper management practices. Here are some points to understand about this practice:

Types of Waste Liquids:

- o Industrial Effluents: Waste water from manufacturing processes that may contain pollutants.
- o Domestic Sewage: Wastewater from households, including grey water (from sinks, showers) and black water (from toilets).

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RO Plant in KNRCER

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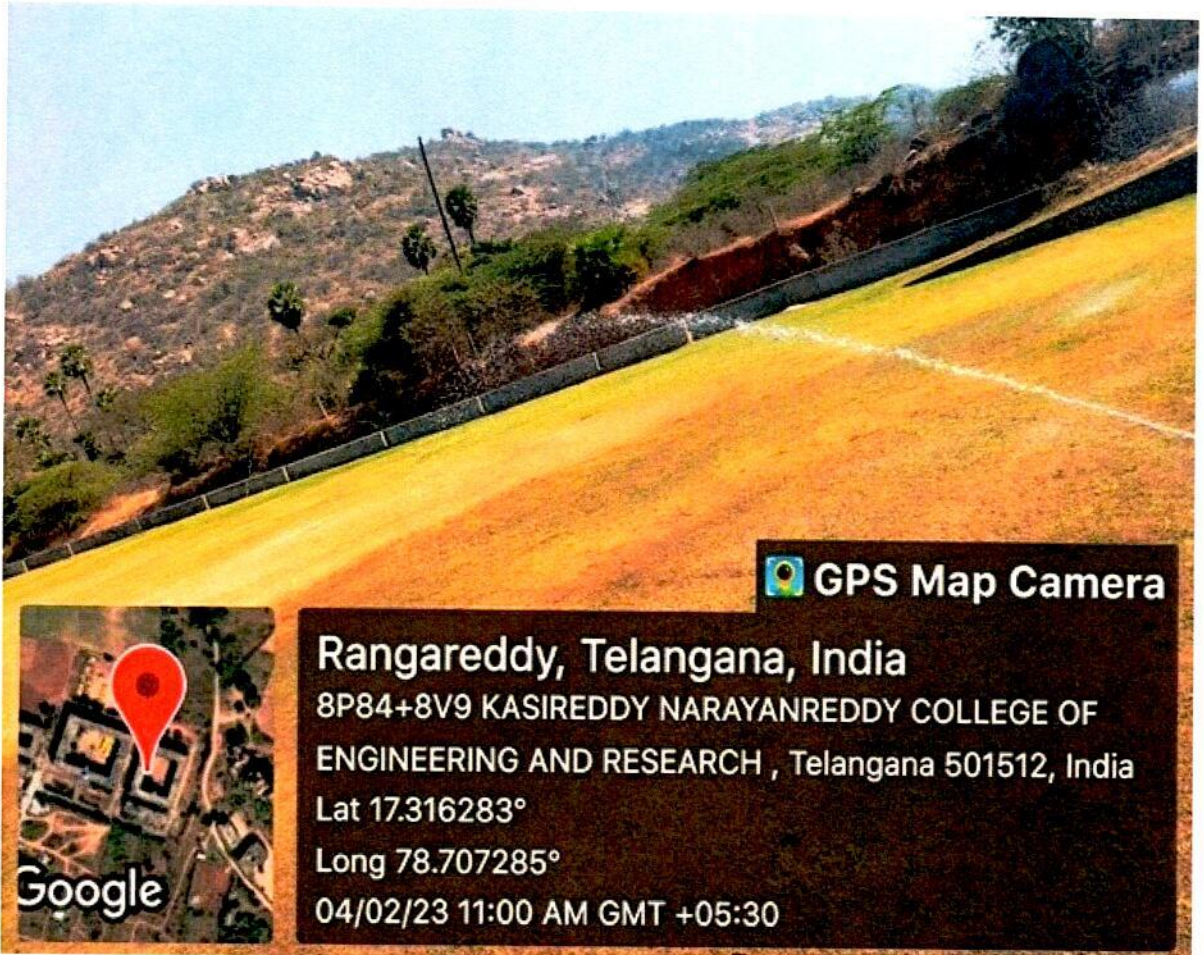


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 **GPS Map Camera**

Rangareddy, Telangana, India

8P84+8V9 KASIREDDY NARAYANREDDY COLLEGE OF
ENGINEERING AND RESEARCH , Telangana 501512, India

Lat 17.316283°

Long 78.707285°

04/02/23 11:00 AM GMT +05:30

RO Waste Water is used in Sprinklers at KNRCER Ground

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Bio-Medical Waste Management:



Geo-Tagging Camera

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Rangareddy, Telangana, India
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501512, India
Lat 17.315627 Long 78.706697

Principal
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E-waste Management:

E-waste includes discarded electrical and electronic devices, such as computers, laptops, printers, smart phones, and laboratory equipment such as battery cells and useless electronic devices, are given away to scrap dealers twice a year. Periodic checking is done to ensure the proper disposal of non-working electronic items. Kasireddy Narayanreddy College of Engineering & Research encourages all the departments and specific student NSS and others to organize events and training sessions that will bring about positive environmental changes.

Collection and Transportation:

- E-waste is gathered from various sources, including households, businesses, recycling centers, and manufacturers. It's crucial to have designated collection points or events to properly gather discarded electronics.

Sorting and Dismantling:

- Once collected, e-waste is sorted by type, often based on its components (e.g., TVs, mobile phones, computers). Devices are dismantled to separate valuable metals (such as gold, silver, copper) and hazardous materials (such as batteries, cathode ray tubes, or circuit boards).

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Disposal of E-Waste of KNR CER

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Hazardous Chemical Waste Management:



Hazardous Chemicals of Chemistry Lab

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