



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email:principal.avanathi@gmail.com

7.1.2: The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and non-degradable Waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

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2. Management of the various types of degradable and non-degradable waste

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1. SOLID WASTE MANAGEMENT:

Data for Solid Waste Management

S.NO	PARAMETER	REMARKS
1	Climate	Climatic Features South West Monsoon Temperature: Max:36°C, Min: 24°C Temperature over the plains: Max: 42°C, Min: 26 C
2	Population	2086
3	Solid Waste Management	16KM from L.B Nagar
4	Liquid Waste Management	2.5 Acres
5	E-Waste Management	Own Transport, Nearby bus stop and NH-65
6	Solid Waste MOU	2 Composing bins, each one 5 feet height

CURREW WASTE ASSESSMENT AND EXISTING SOLID WASTE MANAGEMENT SYSTEM IN THE AVANTHI CAMPUS

- Classrooms
- Office rooms
- Examination cell
- Laboratories
- Canteen
- Stores/stationary section
- Play Ground
- Washrooms



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- i) Construction works
- j) Dining Section
- k) Seminar halls/Auditoriums
- l) Workshop section

Collection:

- a. Dust bins placed at various places like class rooms , corridors, office rooms, laboratories, canteen, stores etc.,
- b. Dry waste and wet waste separation containers at canteen and entire campus.
- c. Providing Push carts/dust bins to collect different types of solid and others types of waste.
- d. Collected waste dumped at composting unit.

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 the wastes on daily basis. On an average per day, we are getting 20kg solid wastes from different sources.



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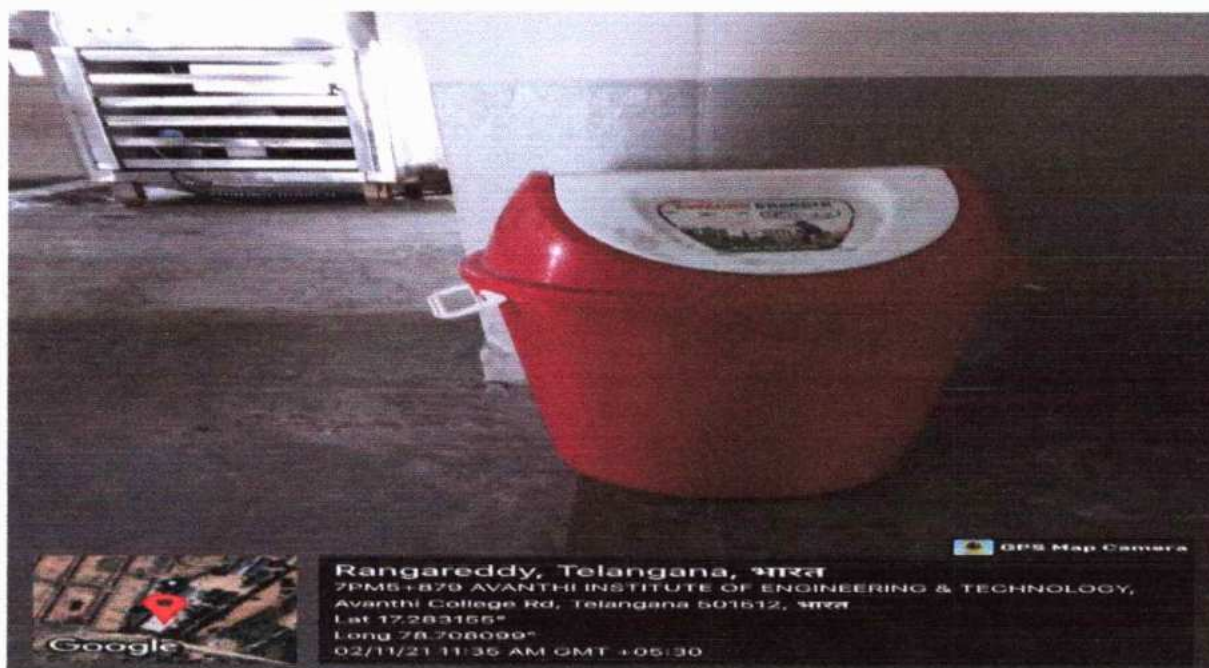
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Dry waste and wet waste two garbage disposal bins in the campus

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Separating Dry Waste & Wet Waste:

We maintain two garbage disposal bins in the campus, one is for dry waste and another is for wet waste. The wasted items like Aluminum foils, tetra packs, glass, paper, plastics, metals, etc. thrown under the dry waste category, whereas kitchen waste such as stale food, fruits and vegetables come under wet waste.

Storage of solid waste:

The aim of waste management is to reduce the dangerous effects of such waste on the environment and human health. A maximum part of waste management deals with municipal solid waste, which is created by industrial, commercial, and household activity. Proper management of waste is important for building sustainable and populated cities, but it remains a challenge for many developing countries and cities. A report found that effective waste management is relatively expensive, usually comprising 20% 50% of municipal budgets. Operating this essential municipal service requires integrated systems that are efficient, sustainable, and socially supported. A large portion of waste management practices deal with Municipal Solid Waste (MSW) which is the bulk of the waste that is created by household, industrial, and commercial activity.

BURNING THE WASTE:

We are getting very less bulk quantity of solid wastes from different places in the campus so that,

Burning the waste at 05:00PM on daily basis and exporting that burned ash to dumping yard by weekly twice.




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Dumping Yard for the Burning Waste



Burning Waste

2. LIQUID WASTE MANAGEMENT:

The waste water generated from the sanitary facilities is disposed off into septic tanks located at different places in the campus and their effluents combined with canteen waste. A pit is dug

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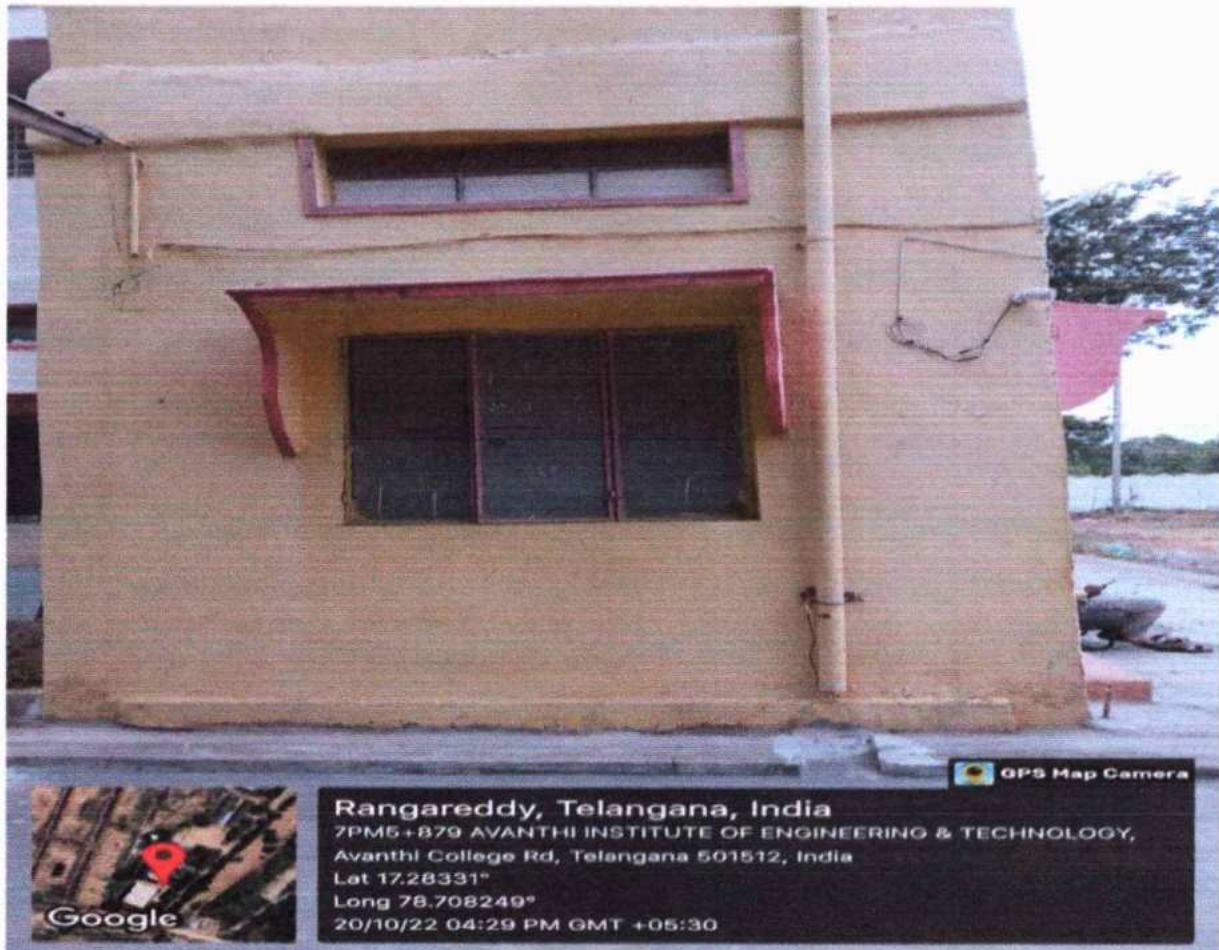
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into the ground to store waste water for plant maintenance. Proper drainage system is arranged for all buildings of the campus. The excess wastewater will be directed into the drainage system. RO plant waste water is diluted with canteen waste water and used for gardening, watering trees etc.



RO plant waste water is diluted with canteen waste water and used for gardening



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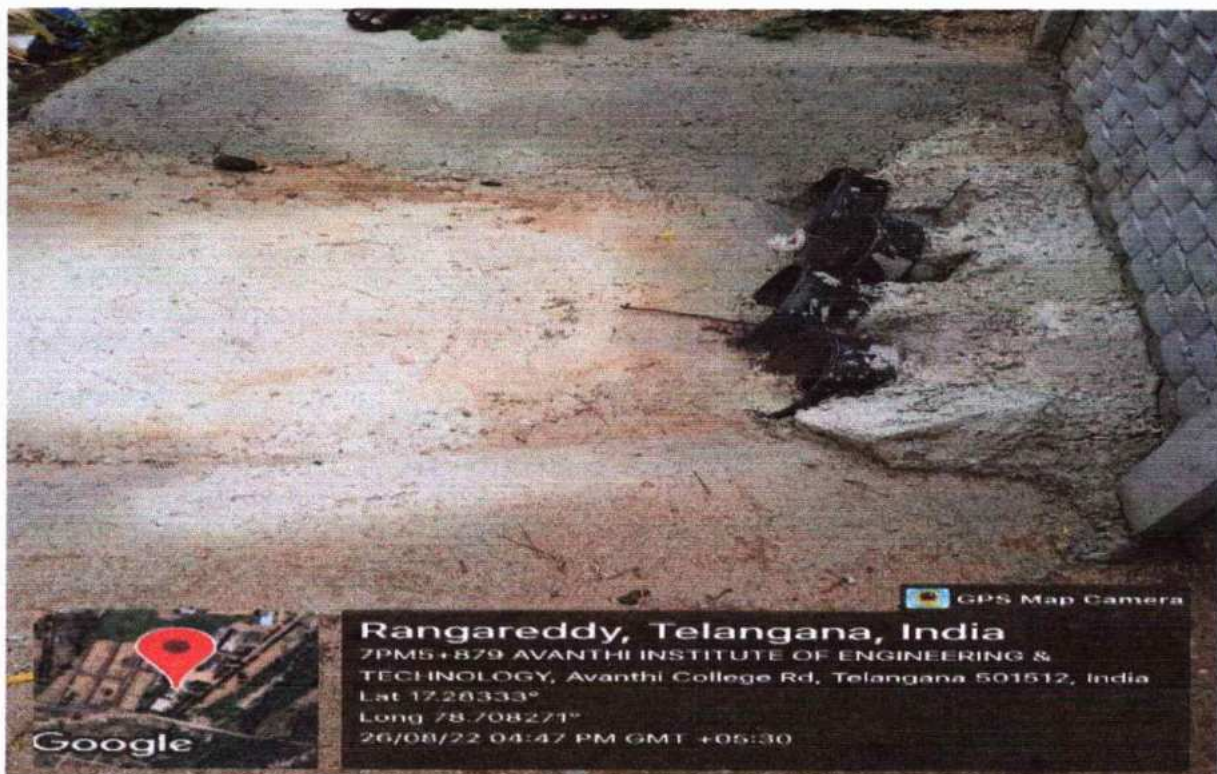
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Proper drainage system



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3. E-WASTE MANAGEMENT:

Salient Features of AIET

S.NO	Parameter	Availability
1	No of Computer labs	16
2	No of Computer systems	610
3	No of AC's	10
4	RAM	8GB
5	ROM	256GB,512GB&1TB
6	Graphic card	1TB
7	No of Projectors	40
8	No of Tube light	320
9	No of LED's	506
10	No of FAN's	450
11	No of TV's	02
12	No of CC Cameras	84
13	UPS	10
14	Printers	52
15	Xerox Machines	05

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

- Computer labs, Printers
- Office section .Records
- Examination cell
- Electrical Labs
- Electronics Labs
- Power grid/powerhouse
- Class rooms
- Rest rooms
- Printers
- Records

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By innovative technology, the Other E-Waste materials are properly recycled and reused for construction purpose. Awareness programmes are initiated on E-Waste management to dispose through vendors.



E-Waste Computer materials



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4. RO PLANT PURIFIED WATER PLANT:

AIET has Reverse Osmosis facility for recycling water. Reverse Osmosis is a means of pulling clean water out of polluted water or salt water by pushing water through a membrane under pressure. The water which originates from the bore wells is treated through the reverse osmosis process at the RO plant. The clean water is used for drinking and waste water from the RO process is used for gardening. RO plant purified water stored in SYNTEX tank with a capacity of 2500 Lts.



RO plant purified water stored in SYNTEX tank with a capacity of 2500 Lts.



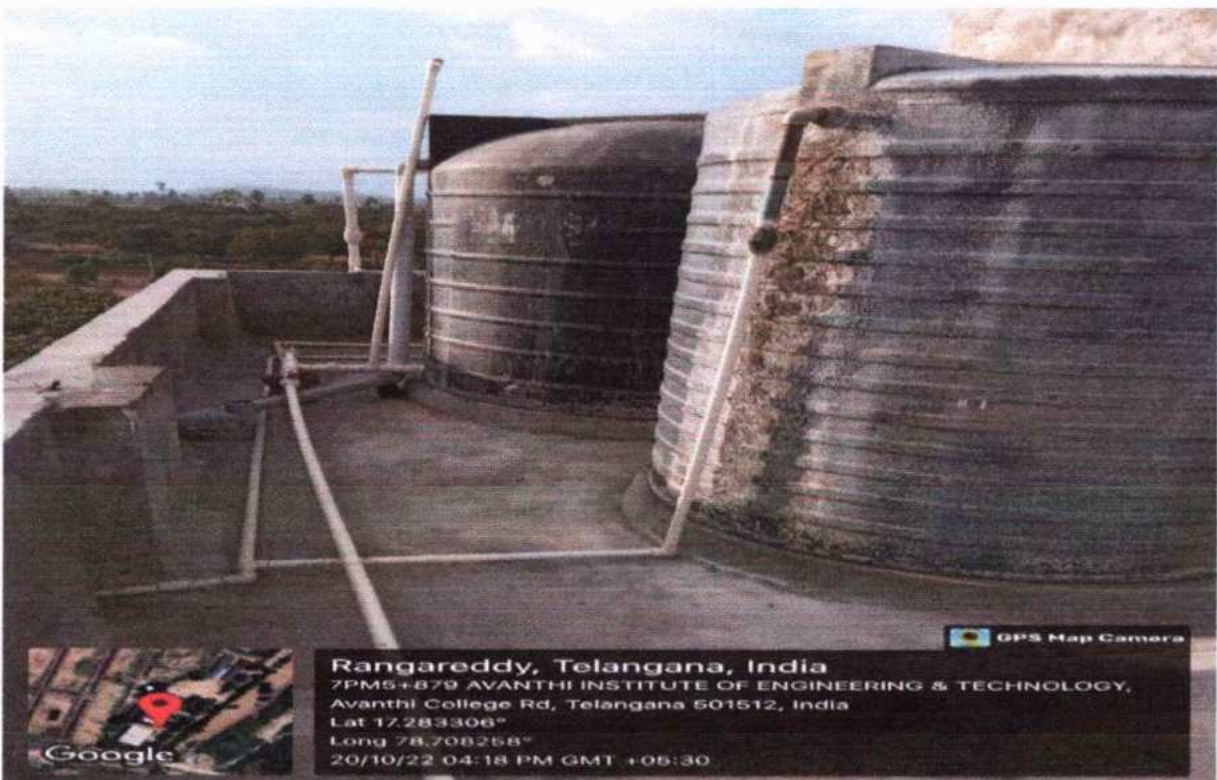
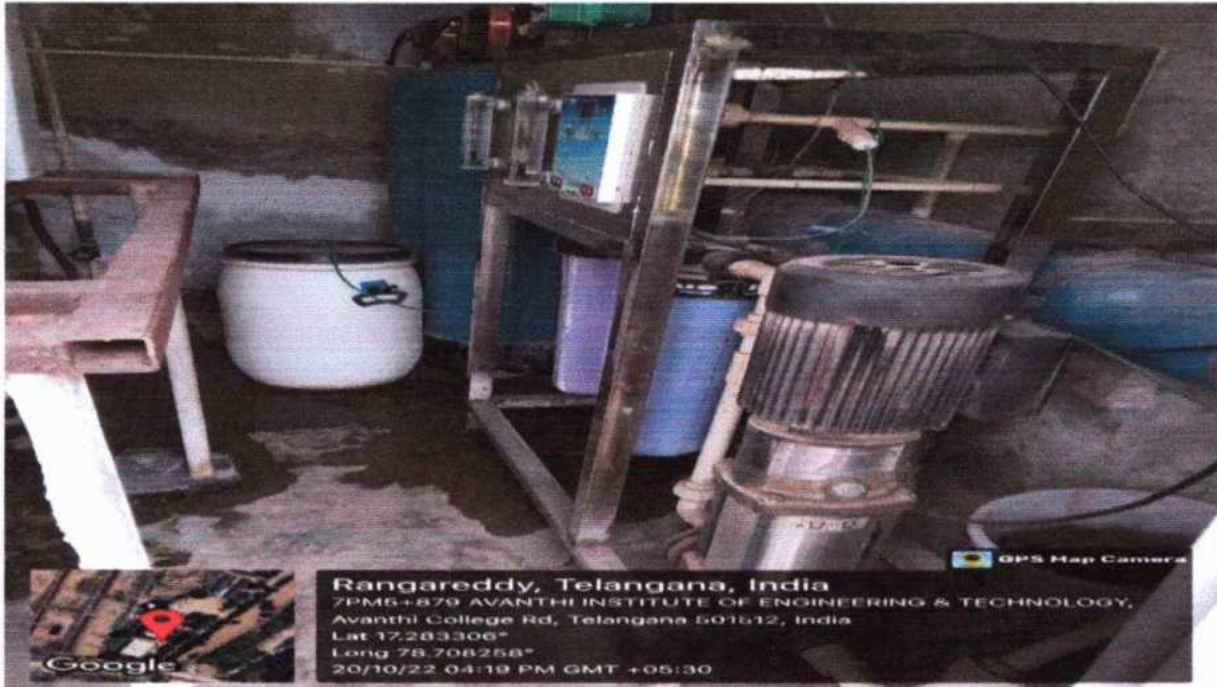
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RO plant purified water stored in SYNTEX tank 2500 Liters of Each

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