



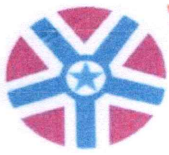
# VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

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## **Best Practice-II**

# **An Eco-Friendly Green Campus**



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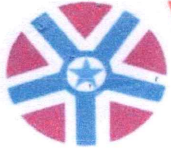
## BEST PRACTICE – II An Eco-Friendly Green Campus

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## The Green Campus, Energy and Environment Policy

### Objectives of the Policy:

- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To make the campus plastic free.
- To conduct environmental and energy audits from time to time.
- To minimize the use of paper in administration through having policy for E-governance.



  
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## Policy on Green Campus

### Objectives:

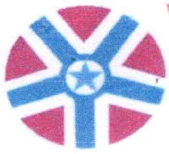
Vignan's institute of management and Technology for Women (VMTW) accept the moral responsibility in addressing the challenges of environmental sustainability and climate change. The institute incorporated planning and budgeting procedures into its strategy stand adopted best environmental friendly practices in the campus.

### Green Campus Initiatives:

- To improve practices to climate protection and adaptation of natural resources.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To make the campus free from plastic.
- To conduct Environment, Green and Energy audits at regular intervals.
- To conserve and protect ecological systems and resource
- To ensure judicious use of ecological resources to meet the needs and upcoming generations.
- To reduce CO<sub>2</sub> emissions and make pollution free campus all the staff and students are advised to use bicycles and battery powered vehicles.
- To integrate environmental concerns into policies, plans and programmes for social economic development and outreach activities.
- To work with various organizations and communities to raise awareness and seek the Adoption of environmental best practice and the minimization of any adverse effects on the environment.



*V. Asha*  
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## Photographs for Green Campus Initiatives:

### Landscaping with trees & plants:

Landscaping is a key component of an ecosystem and involved in the regulation of various biogeochemical cycles, e.g., water, carbon, nitrogen. Landscaping converts solar energy into the biomass and forms the base of all food chains. It largely influences the energy balance at the earth's surface and within the atmospheric boundary layer.

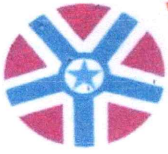
The campus has 3200 square feet of lawn more than **400 trees**, due to these more than 1800 students and staff benefit from the clean, cool air produced from trees. The landscape manages runoffs, recharging ground water and creating smooth environment in the campus.



**Vinayaka Temple in the Campus**

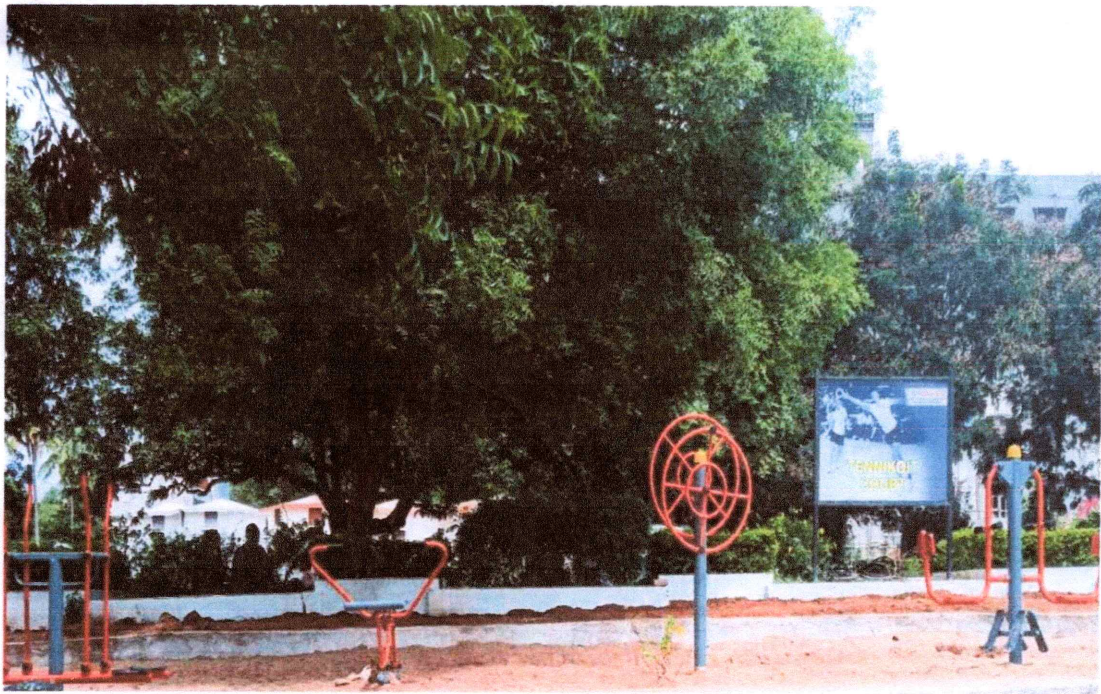


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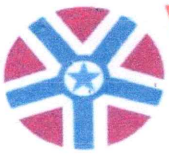
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Open Gym



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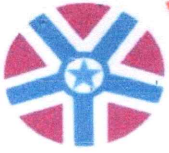
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Sapling plants by guests and students



*RAM*  
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Preparation of PAPER BAG by the students' part of Awareness program on "GO ECO"

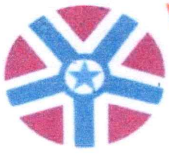


Usage of E-Scooter in the campus for environment friendly and prevents pollution free



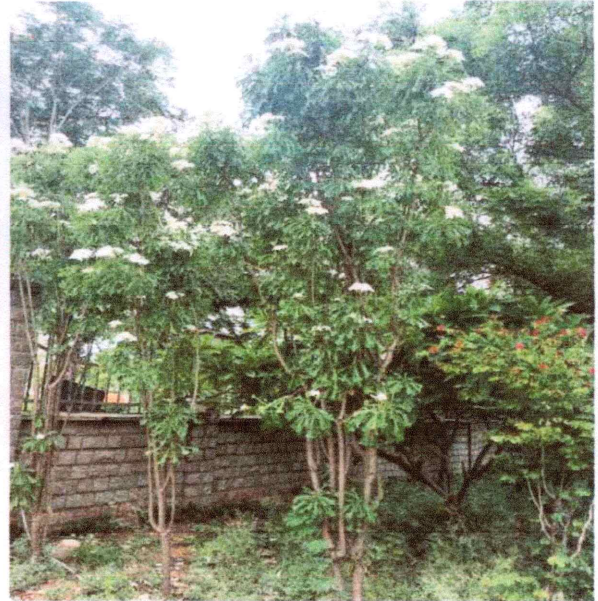
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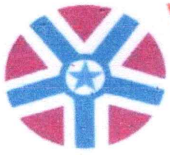
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**Flower Gardening in the Campus**

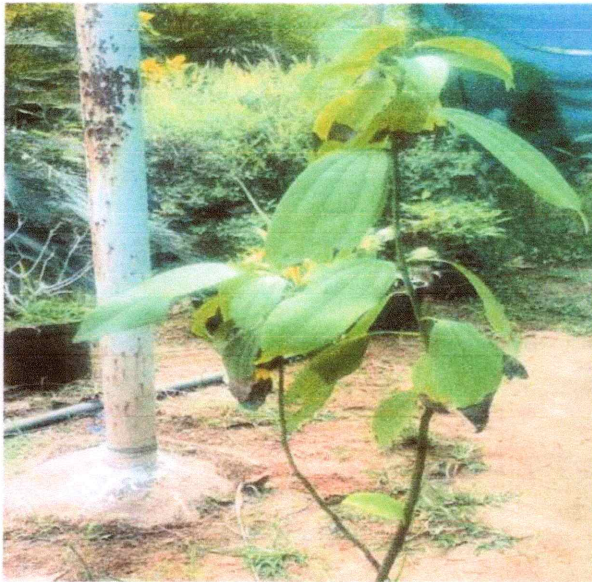


*Rashmi*  
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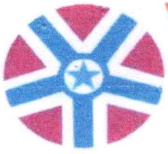


**Medicinal (Herbal) Plants**



*Radu.*  
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**Tamarind Tree**

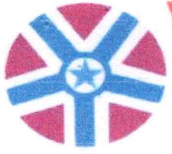


**Mango Tree**



*Adh*  
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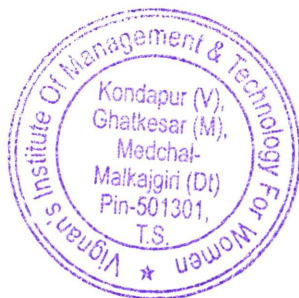
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Peepal Tree

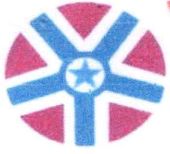


Banyan Tree



*ASU*  
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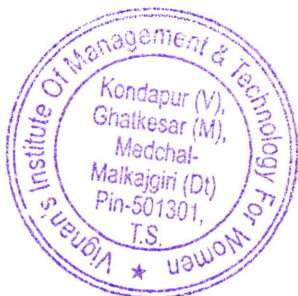
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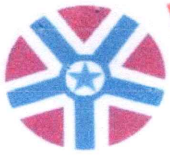
**Neem Tree**



**Mango Tree used for open classes**

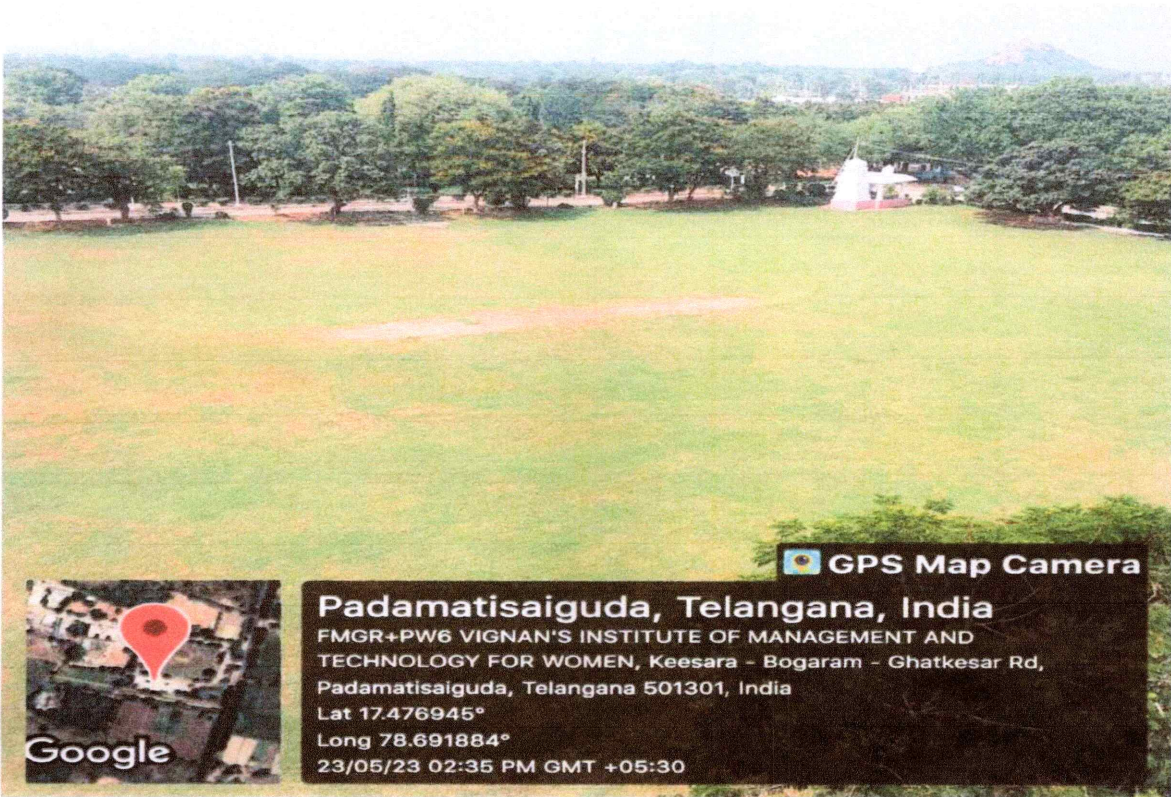


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GPS Map Camera



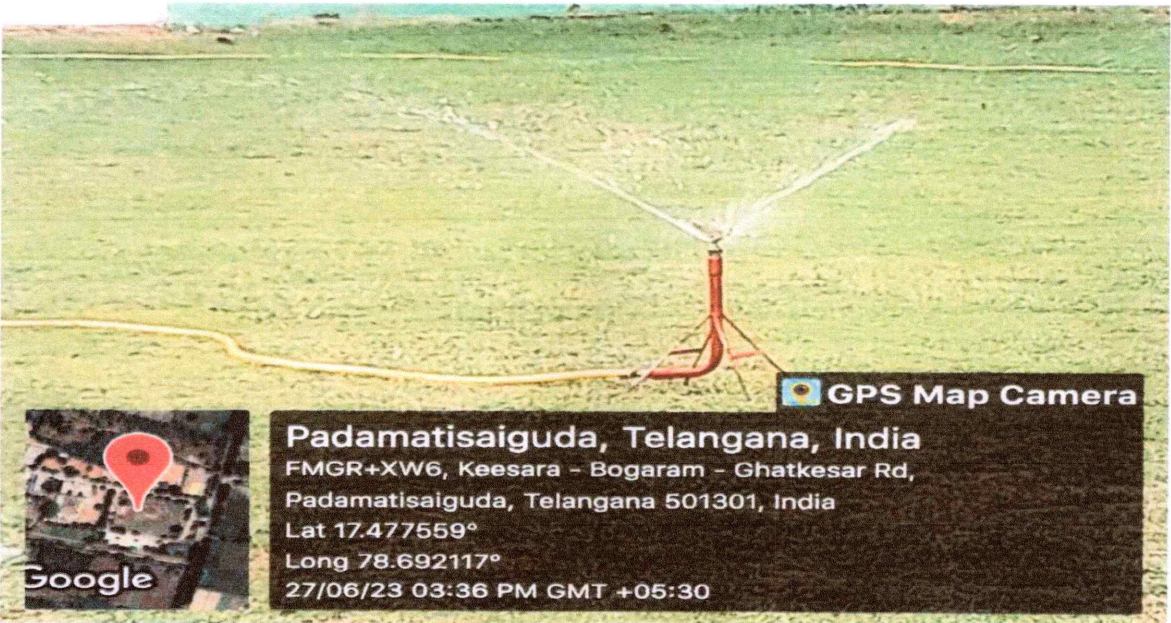
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FMGR+PW6 VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN, Keesara - Bogaram - Ghatkesar Rd, Padamatisaiguda, Telangana 501301, India

Lat 17.476945°

Long 78.691884°

23/05/23 02:35 PM GMT +05:30



GPS Map Camera



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Lat 17.477559°

Long 78.692117°

27/06/23 03:36 PM GMT +05:30

## Play ground and its maintenance with Sprinklers



*RASH*  
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## Policy on Waste Management

### Objectives:

- Ensure that waste management in campus is in accordance with all waste legislative requirements.
- Minimize waste generation and facilitate repair, reuse and recycling of wastes in a cost effective manner.
- Provide clearly defined roles and responsibilities to identify and co-ordinate activity of the waste management.
- Invest into the expansion of recycling opportunities in the College campus.
- Ensure safe handling and storage of wastes in campus.

### Degradable and Non-degradable waste management

- Degradable wastes are defined as any waste that can be broken down into organic Compounds like carbon dioxide, water, methane or simple organic molecules by Microorganisms or any other living organisms by composting, aerobic digestion or any other process.
- **Examples:** Include, green waste, food waste, paper waste, human waste, Manure, sewage, sewage sludge and slaughterhouse waste.
- Non-degradable wastes are never broken by environmental factors naturally.
- Non-biodegradable things consist of plastics, polystyrene, metals, plastic and aluminum Cans, toxic chemicals, paints, tyres, etc.

### The following specific procedures have been implemented to reduce Degradable and Non-Degradable waste:

- Reduce the paper consumption by supporting the digitalization of attendance records.
- Reduce the need for printed books by updating e-books and e-journals.
- Minimize the use of packaged foods.
- Systematically apply RRR of being green (reduce, reuse, recycle).
- Encourage the students and Teachers to use maximum online platforms.
- Develop technology centric management models from the waste.



  
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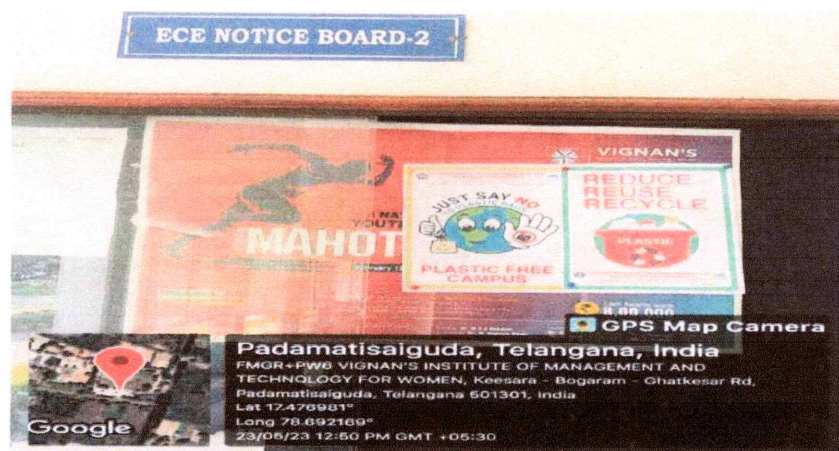


## E-waste Management:

- The e-waste includes a wide range of electronic and electrical items such as computers, printers, keyboards etc.
- The institute takes efforts to minimize e-waste by repairing the computer peripheral and electronic components.
- E-waste generated from various departments which cannot be reused or recycled is being disposed of centrally through certified eco-friendly vendors.
- In addition, the Institution emphasizes on paperless office.

## Objectives:

- To minimize generation of e-waste at source and facilitate repair, reuse and recycling Where ever possible, over the disposal of wastes in a cost effective manner.
- To mobilize and sensitize stakeholders on the proper management and handling of E-waste on a sustainable basis.
- To ensure the safe handling and storage of wastes in College campus.
- To provide guidance on the standards of electronic equipment that is implemented in the college.
- To provide appropriate training for staff, students and other Stakeholders on waste management issues.
- To encourage use of environmentally sound e-waste recycling methods



RRR and NO Plastic on Notice Board



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## Photographs for Waste Management:

### *Wood Residue Converted into Pen Stand and Paper Weight Through students*



*Wood Residue Converted into Pen Stand and Paper Weight*



GPS Map Camera



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Lat 17.478518°  
Long 78.690676°

*Pen Stand*



GPS M



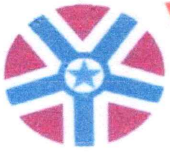
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Lat 17.478376°  
Long 78.690696°  
26/05/23 11:06 AM GMT +05:30

*Paper Weight*



*[Signature]*  
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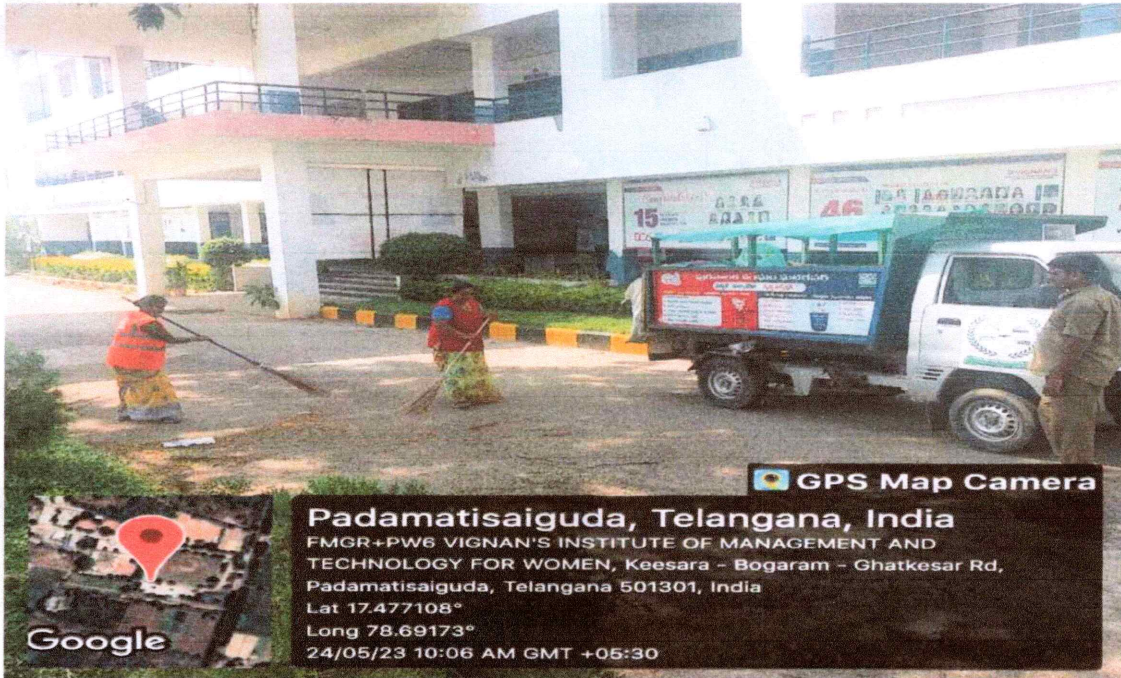
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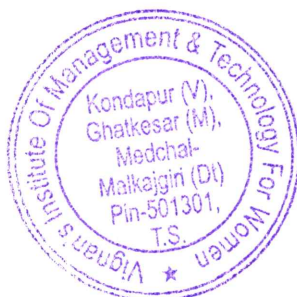
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Long 78.692816°  
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*Dustbin Placed At Play area*

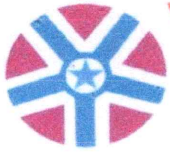


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Long 78.69173°  
24/05/23 10:06 AM GMT +05:30

*Collection of Waste by Ghatkesar Municipal Workers*



*Radhika*  
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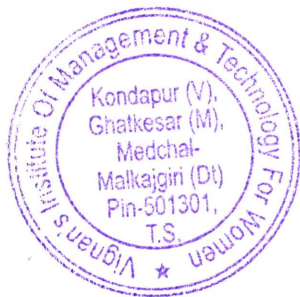


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E-waste collection from the computer labs



*[Signature]*  
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## Policy on Environment and Energy usage

The environment and Energy usage policy of Vignan's Institute of Management and Technology for women is to supervise energy in such an organized way so as to minimize its impact on the environment. The policy implies to explore the renewable energy resources to reduce the burden of the government and to find out substitute natural resources as solutions to the energy crisis.

This environment and energy policy is binding for all the components of the institution and applies to all its stakeholders and to the various activities undertaken by the institution. It will help us to embed effectiveness and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to conservation of natural resources and to limit its usage.

### Policies:

- To reduce local air pollution emissions using environment – friendly vehicles, including bicycles, public transportation and use of pedestrian-friendly roads.
  - To install photovoltaic solar planes for the generation of alternate energy.
  - To develop systematic waste management mechanism.
  - To assess our energy usage and measure its impact on the environment.
  - To count CO<sub>2</sub> emissions generated by our means of transportations-vehicles.
  - To develop rain water harvesting unit.
  - To install LED bulbs in the complete campus to save energy.
  - To undertake tree plantation drive.
  - To take additional measures to continuously improve our energy consumption.
  - To develop and maintain an Environmental Management System which is **ISO:14001:2015** and an Energy Management System based on **ISO:50001:2018**
  - To ensure the availability of necessary resources to achieve our objectives.
  - To encourage use of advanced technology to minimize energy consumption.
- Atmospheric emissions and noise, particularly from our vehicle fleets.



  
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- To engage in dialogue with the government agencies, municipal corporation and the affiliating university and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To monitor and respond to emerging environmental and energy issues. To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To offer opportunities for employees and students to engage in initiatives those contribute to environmental protection.

This policy will be communicated to the students and employees via internal communication channels, and will be made available to all the stakeholders on the institutional website. The Environment and Energy policy, objectives and targets will be reviewed on a regular basis by the members under the guidance of the Principal of the college.

## Photographs for Environment and Energy usage:

### Renewable Sources of Energy:

#### • Solar Power Plant

Solar Power for Educational Institution is very important. The institution believes in self sustainability and energy conservation. We have switched to cleaner sources of energy like solar energy to minimize the usage of electricity in the institution produced from non renewable resources:

1. A 50 KW Solar Power Plant has been installed on the rooftop.
2. 6000 liters produced Solar water heaters are provided

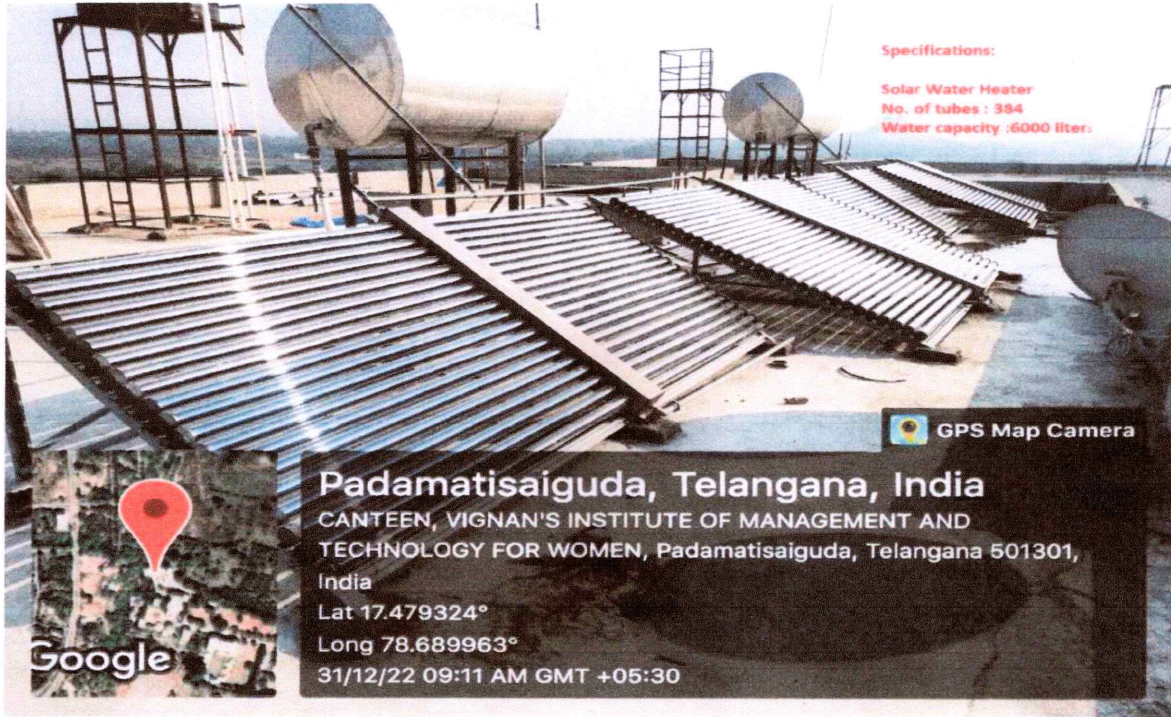


  
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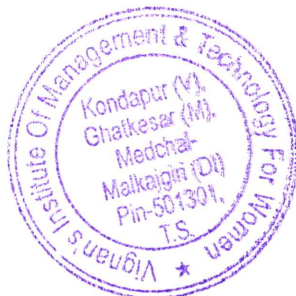
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Solar water heater tubes producing 6000 litters of hot water

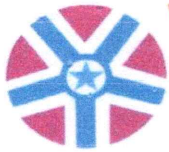


Solar Power Panel on the rooftop with a capacity of 50kW



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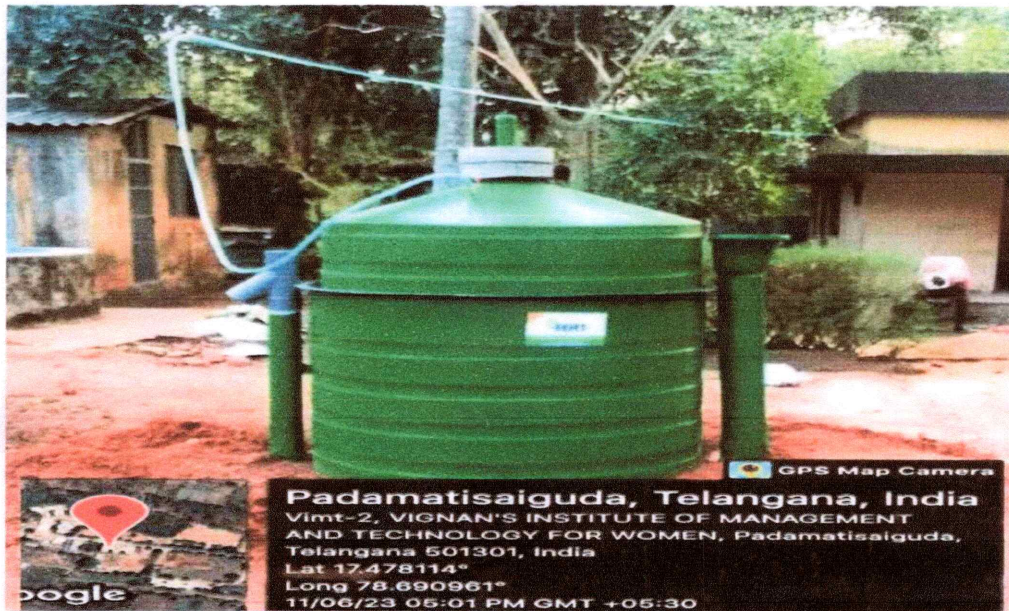
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## Biogas Plant :

Biogas is considered to be a renewable resource because its production-and-use cycle is continuous, and it is perfectly possible for it to be used without generating net carbon dioxide emissions to the atmosphere. To reuse the wastage from the canteen and tree litter, two 500 Litres Fisting Type Biogas Plant has been installed. The gas produced from the Big Plant is used for cooking purpose in the canteen.



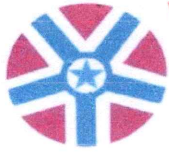
Biogas Plant

## Technical Specifications of Bio-Plant:

Description/Type	Quantity/modal
Type of Model	KVIC Modal
Capacity	500 Liters
Application	Cooking
Installed Year	2023
Capacity of the biogas digester	2M <sup>3</sup> /day
Daily required food/cattle dung waste	25kg/day
Daily replacement of LPG	0.5- Kg/day
Bio-manure production per day in dry matter	6Kg.



  
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## Energy Saving and Energy Efficient Equipments:

- **Use of LEDs**

To minimize the use of utilization of electricity and sing cleaner sources of energy the institution is committed to install energy saving and user friendly alternatives like LED lights. of 15W, 18W, 20W and motion sensor based lights.

- The Institution uses Energy star rated appliances and sensor based equipment for the efficient use of power.



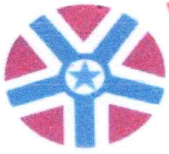
Solar Powered Led Street Light



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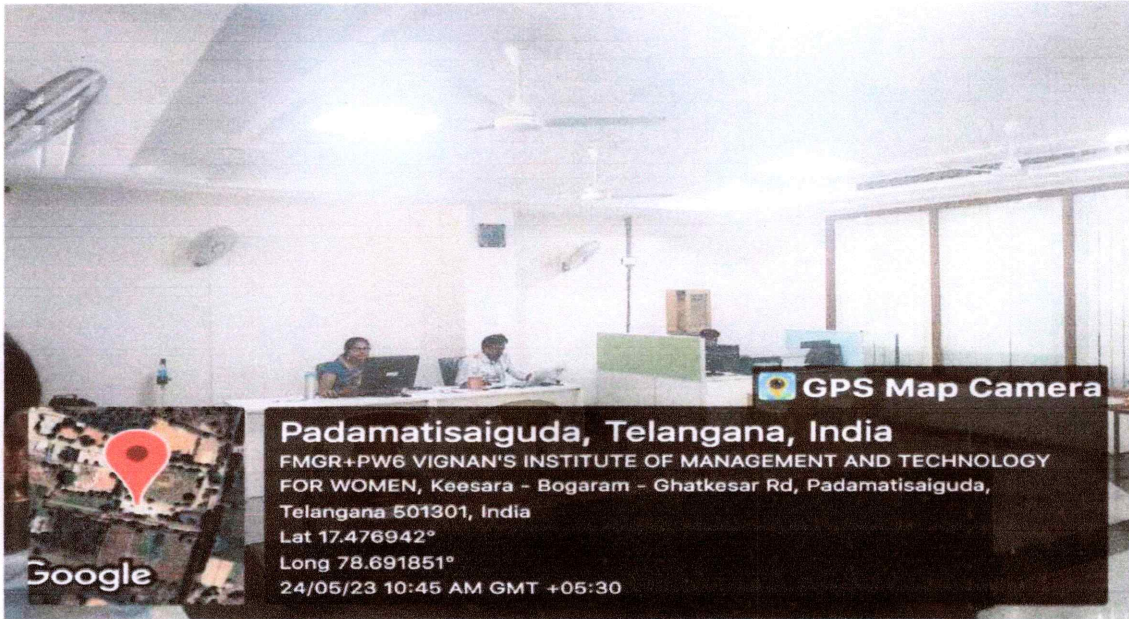
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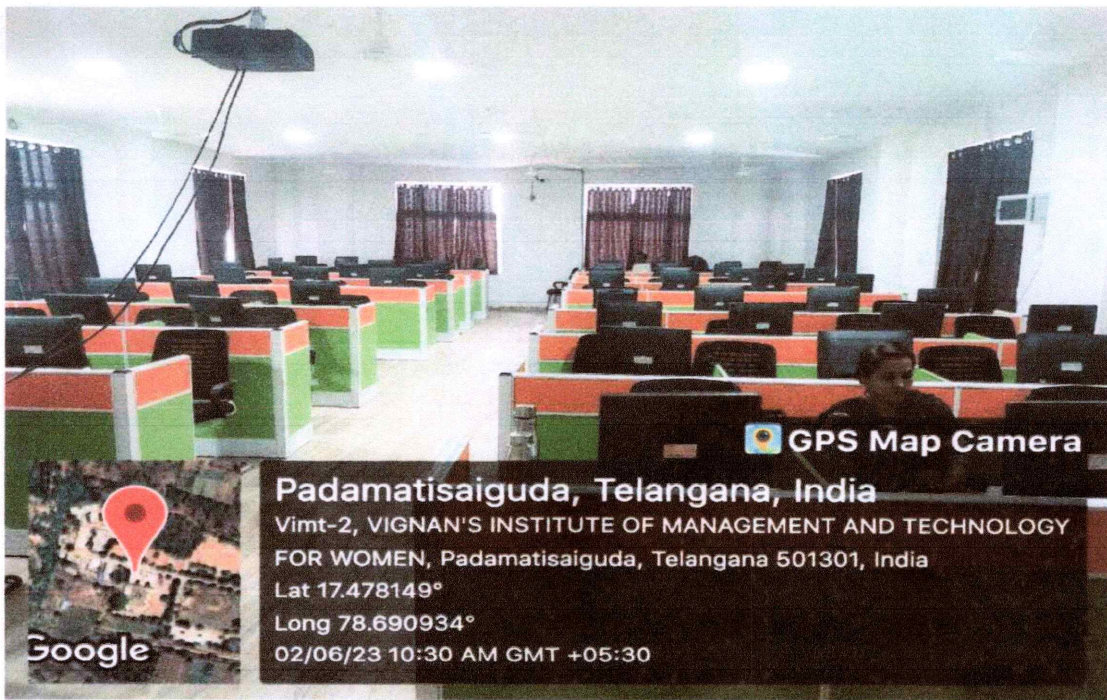


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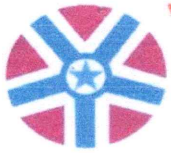
Use of LEDs in Principal Front office



Use of LEDs in Laboratory

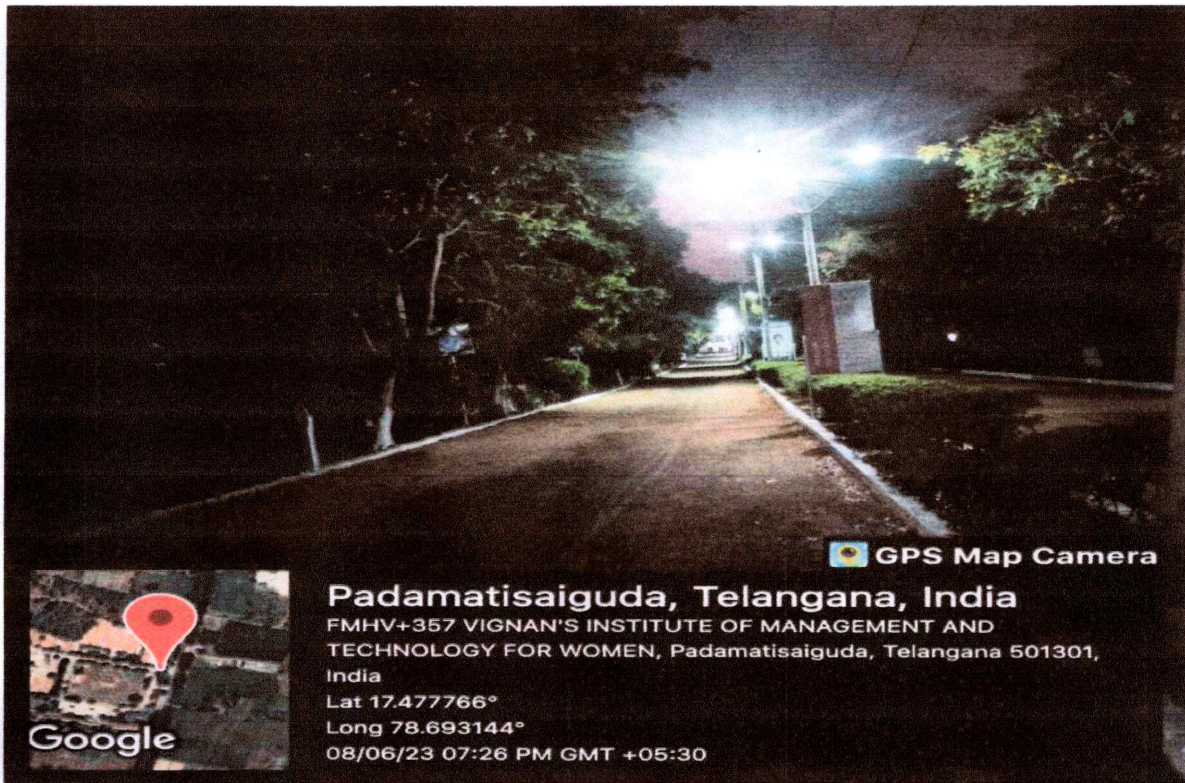


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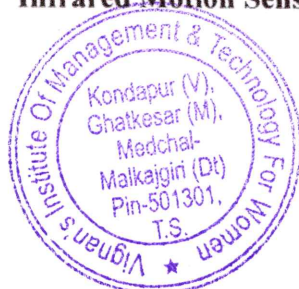
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Use of LEDs in Street lights



Infrared Motion Sensor based Light at corridor



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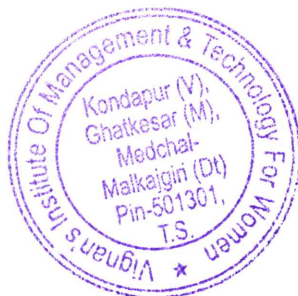
## Policy on Water Conservation

### Objectives:

- Water conservation includes all the policies, strategies and activities to sustainably manage the natural resource of fresh water, to protect the hydrosphere, and to meet the current and future human demand (thus avoiding water scarcity).
- These objectives relate to the volume and quality of water to remain in rivers for the protection of a natural water body and its aquatic environment.
- They are flow targets under the first-in-time, first-in-right priority water allocation system and will apply to all new licences and existing licences with a retrofit provision.
- The effective manage waste water.

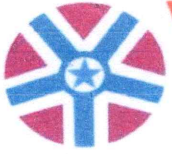
### The institution has sought to implement water conservation measures at the campus.

- Implementation of rain water harvesting methods such as harvesting pits
- Awareness programs on water conservation at the campus.
- Environmental practices for water conservations.
- Use water flow restrictors on Bathroom faucets and Showers and low water flow toilets and automated urinal flushers
- Waste management at the student's hostel and campus.



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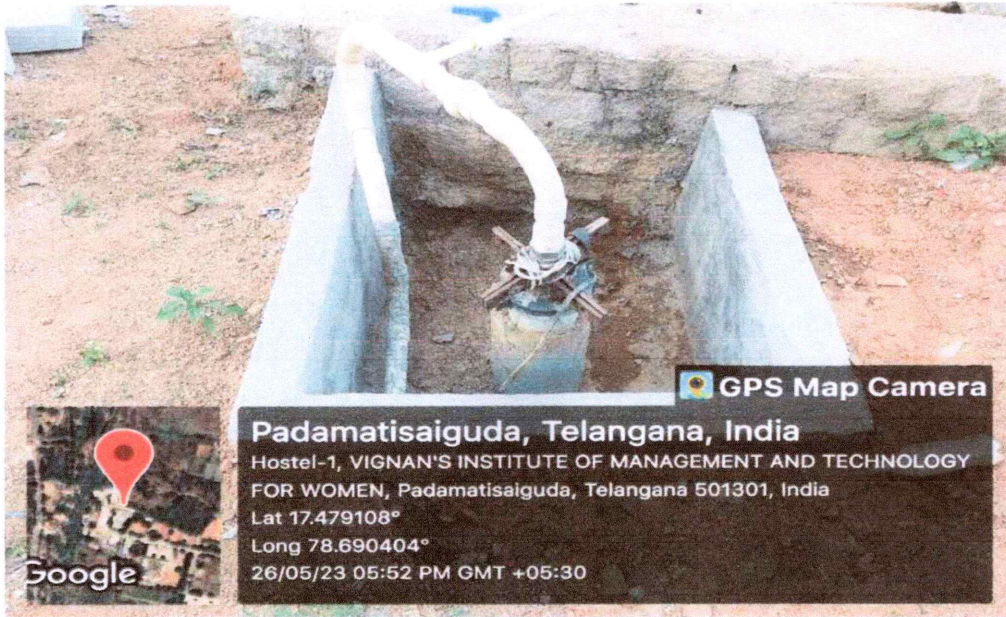


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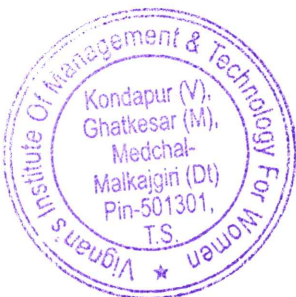
## Photographs for Water Conservation



## Bore well Recharge



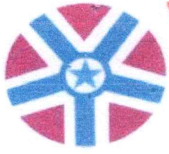
## Rain Water Harvesting Facility



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## Plastic-free campus:



Canteen uses Steel crockery



*Radhika*  
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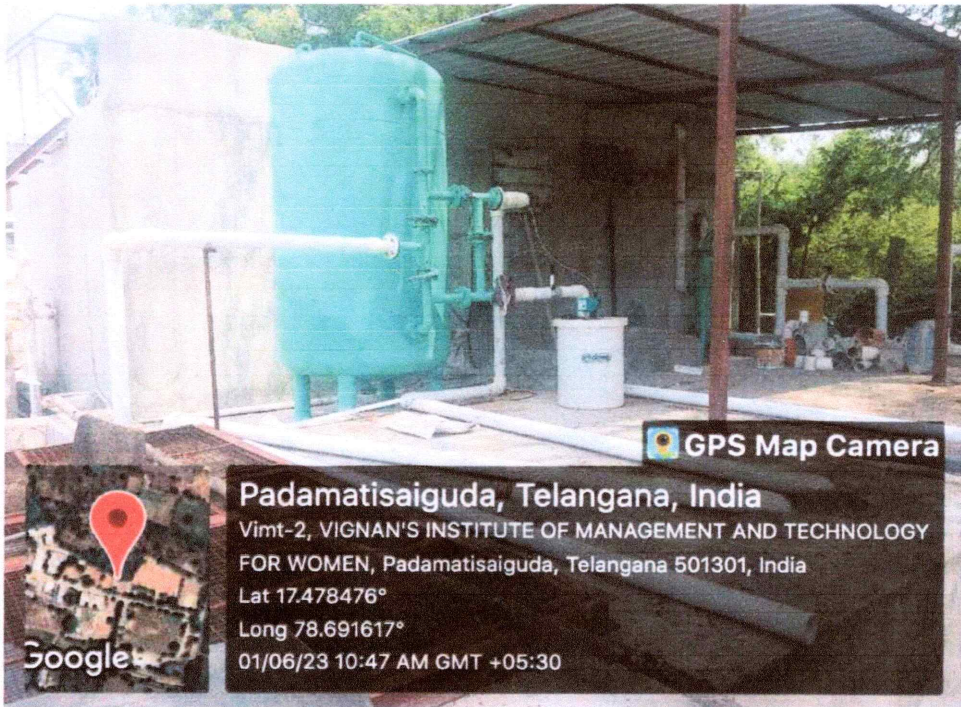


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## Waste Water Recycling:

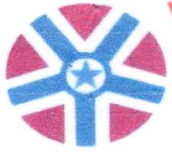


## Sewage Treatment Process



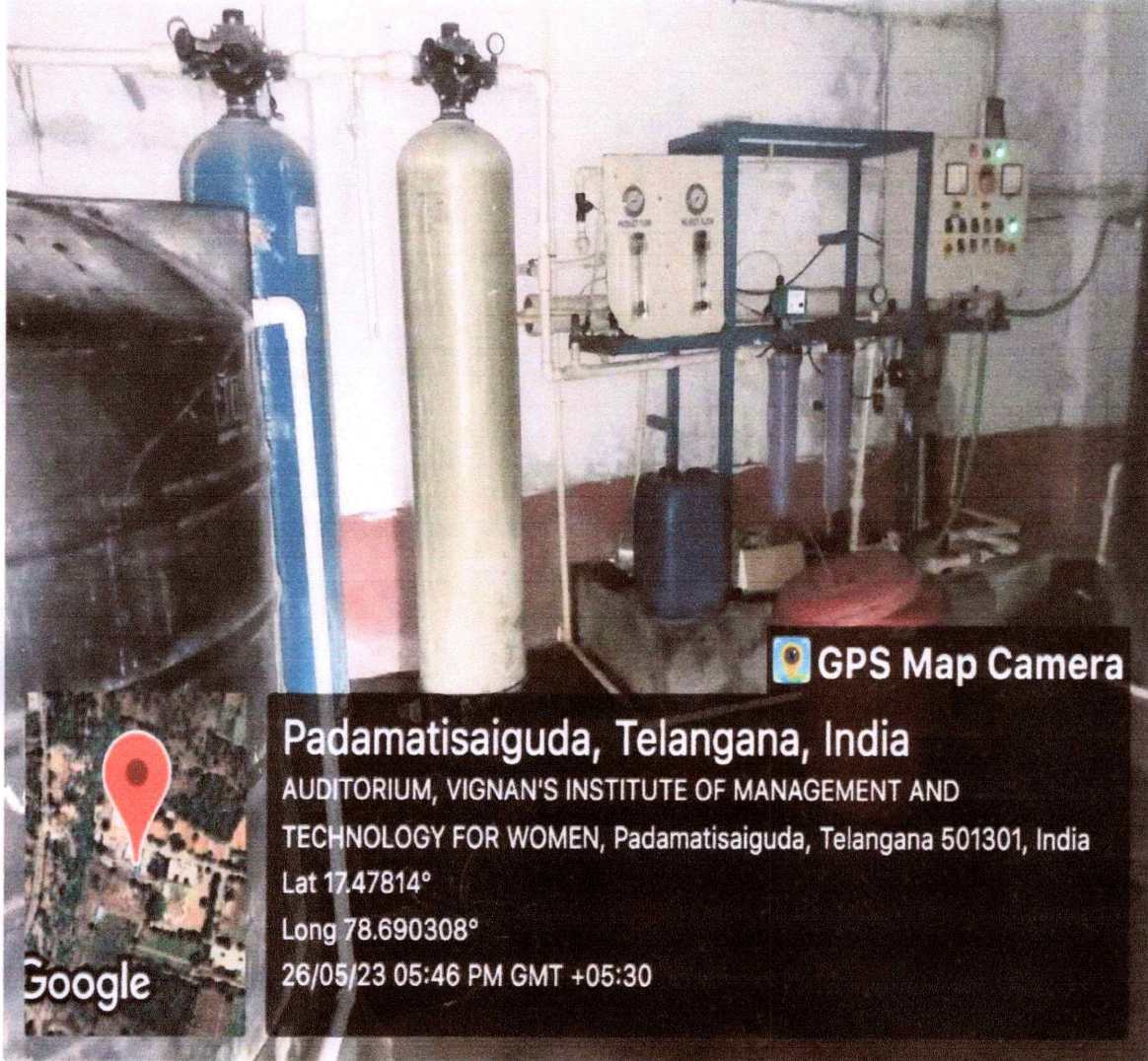
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**RO Water Plant**



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## Restricted entry of automobiles:



## Restricted entry for Vechiles

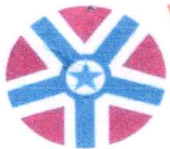


## Security at main gate and at principal office



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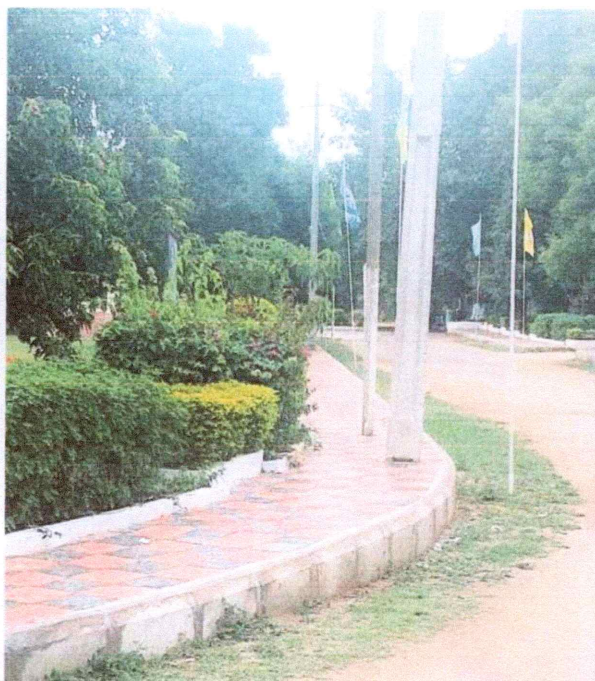


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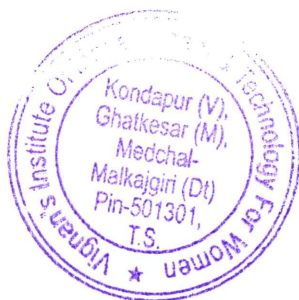
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## Pedestrian-friendly pathway:



## Pedestrian-friendly pathways



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