



**UNNAMALAI INSTITUTE OF TECHNOLOGY**

Suba Nagar, Kovilpatti-628502

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

An ISO 9001:2015 Certified Institution

# **Alternate sources of energy and Energy Conservation Measures**



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## Energy Conservation Measures

The objective of Energy Management is to achieve and maintain optimum energy procurement and utilization, throughout the organization and:

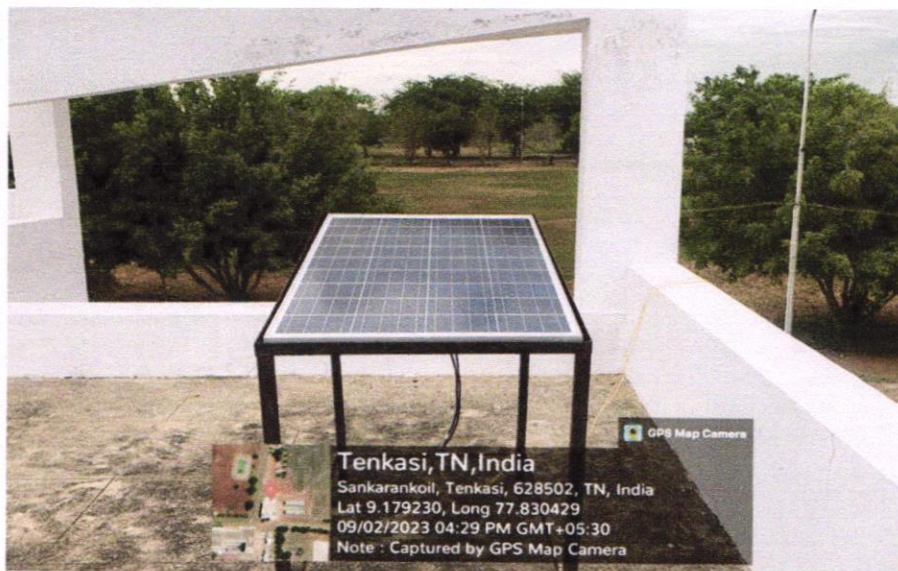
- To minimize energy costs / waste without affecting production & quality
- To minimize environmental effects.

### Energy Audit:

Our college follows the systematic approach for decision-making in the area of energy management. It quantifies energy usage according to its discrete functions. It is an effective tool in defining and pursuing comprehensive energy management programme.

### Solar Panel- Solar Powered Street Light

Solar lighting systems consist of street light with 40 WATT PV PANEL responsible for converting sunlight into electrical energy. This energy is then stored in the batteries and eventually used by the set of LEDs and fans in the canteen.



**Solar Panel**

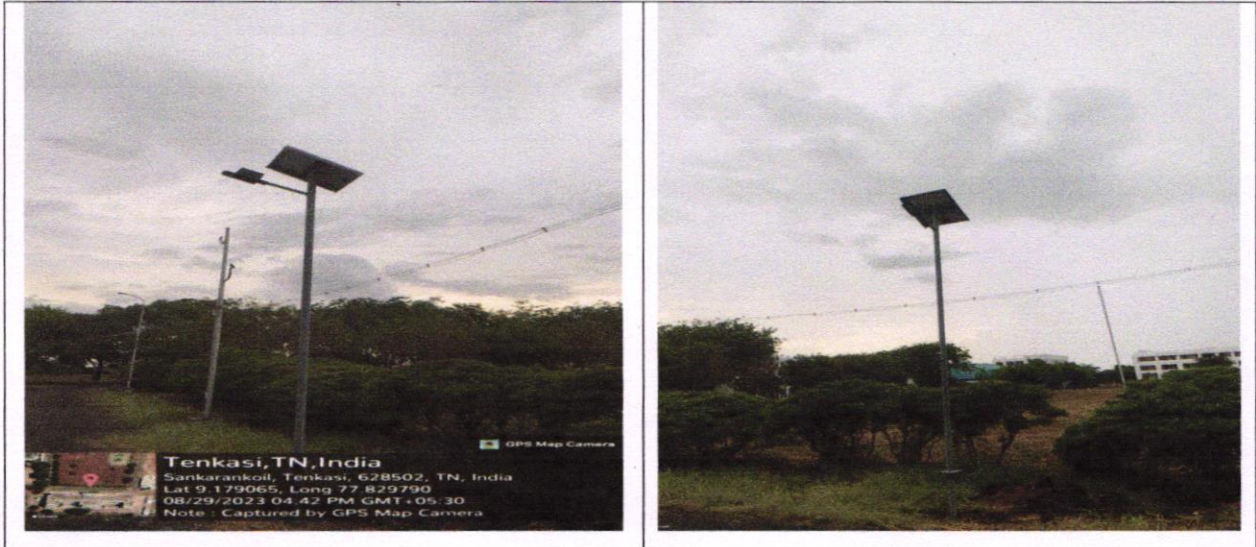


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**Solar Powered Street Light**

**sensor Bulb Used in Main Block**



**Sensor Bulb Used in Main Block**



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## Use of LED Bulbs in Conference Hall

It is very important for the lighting to function properly during the entire meeting. The LED lights for conference hall work well at any meetings.



**LED bulbs in conference hall**



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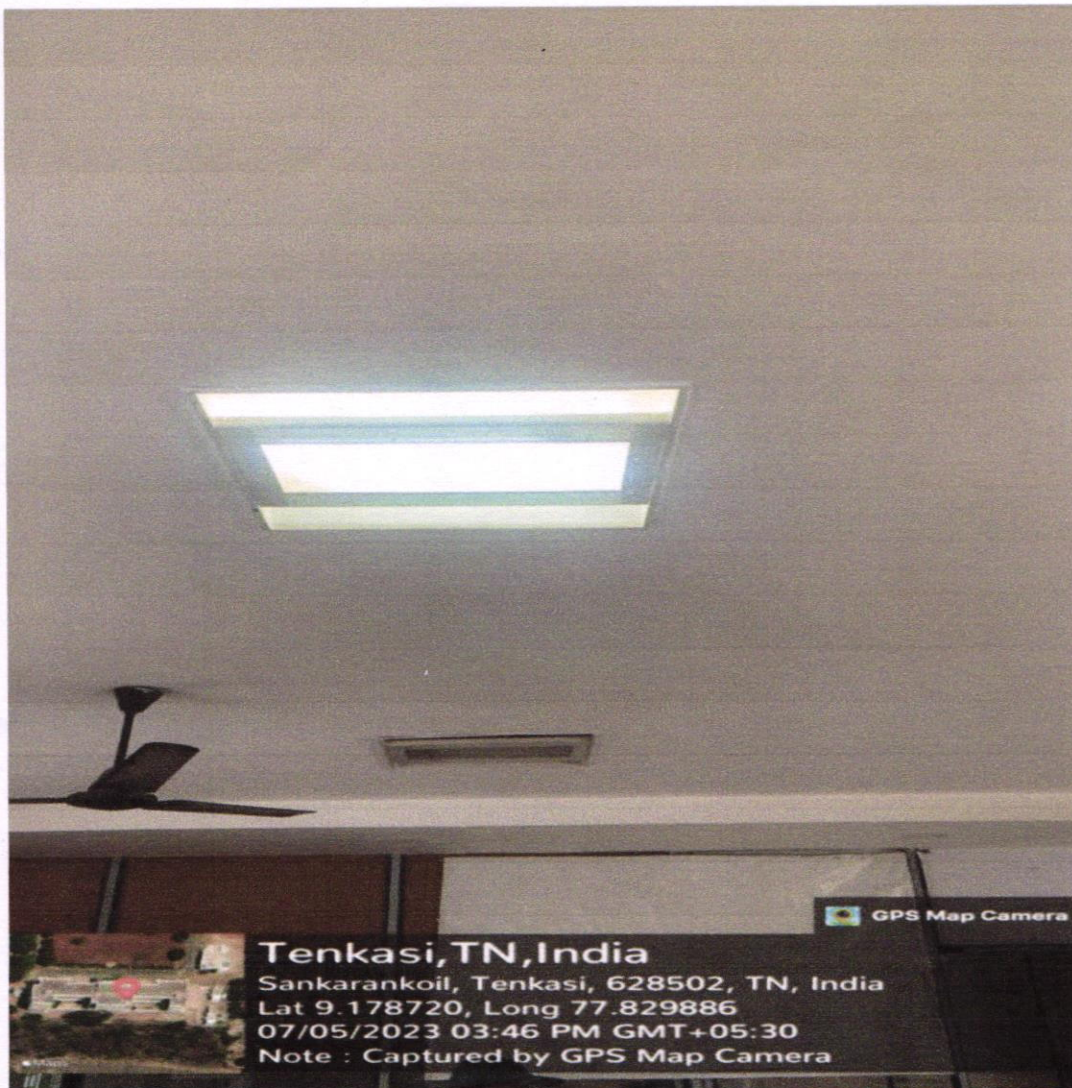
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## Use of LED Bulbs-Computer Centre

By replacing traditional lighting with LED bulbs, we not only contribute to environmental sustainability but also reduce electricity costs. Join us in embracing the use of LED bulbs and let's create a well-lit and energy-efficient campus that aligns with our commitment to a greener future.



LED bulbs in computer labs



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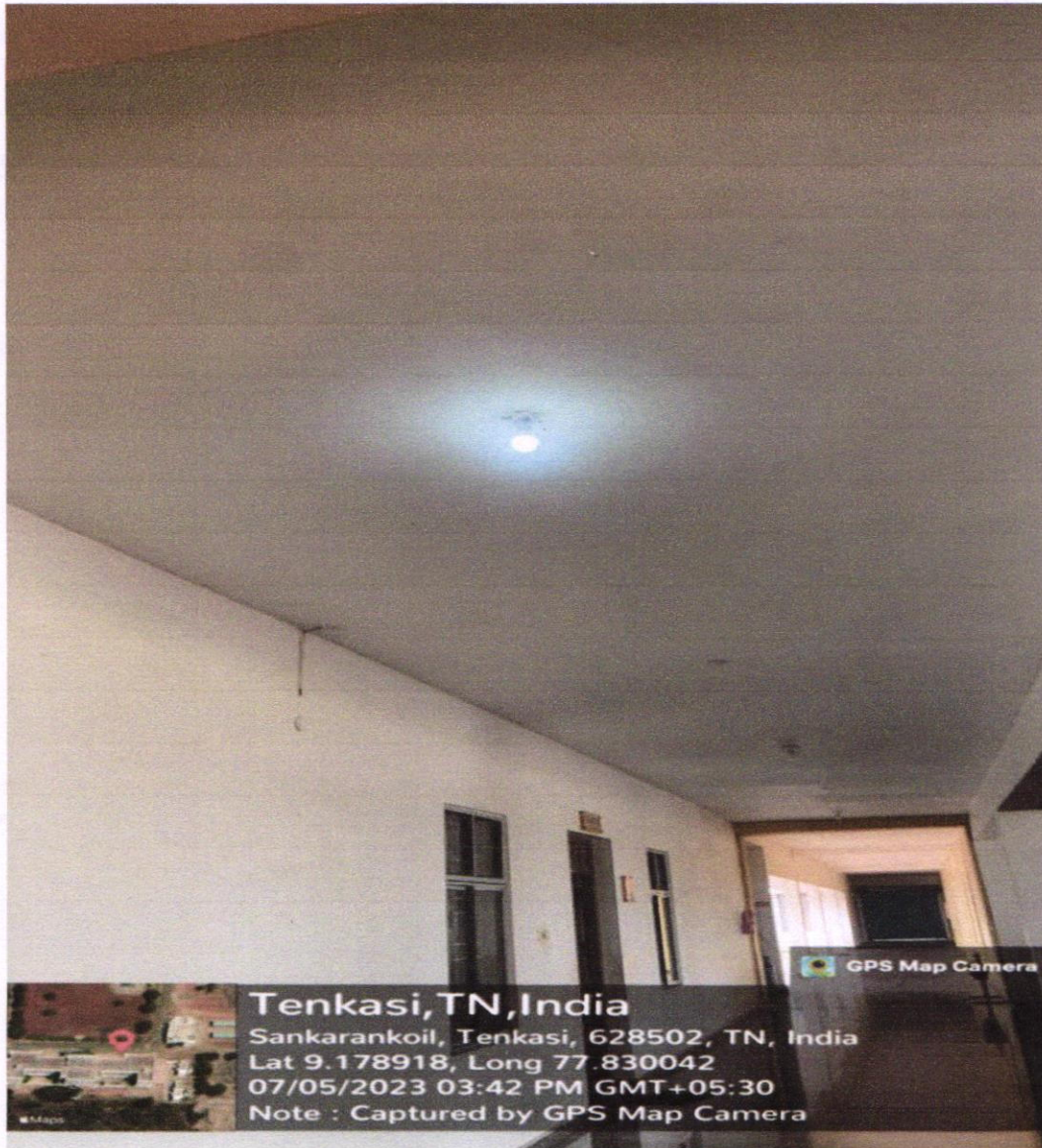
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## Use of LED Bulbs -Ground floor-corridor

In order for light to reach all parts of a winding or angular **hallway**, you'll need to **use** more than one **hallway** light. Multiple **LED** spotlights are mounted for the corridor ground floor.



LED bulbs used in corridor



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**Management of the various  
types of Degradable  
And  
Non-degradable Waste**



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Our institution offers the following management of the various forms of biodegradable and non-biodegradable waste facilities:

- Sanitary Napkin Incinerator
- Napkin Dispenser
- Collection of plastic waste
- E- waste management
- Paper waste management

A Solid Waste Audit is our college thought process that is used to determine the amount and types of waste product by college. Notebooks and papers used for different purposes are sent for recycling. Moreover, every bit of paper is utilized to save trees by each and every department for academic and administrative work. Other non-degradable solid wastes are also collected that are disposed of to the municipal waste collection system.





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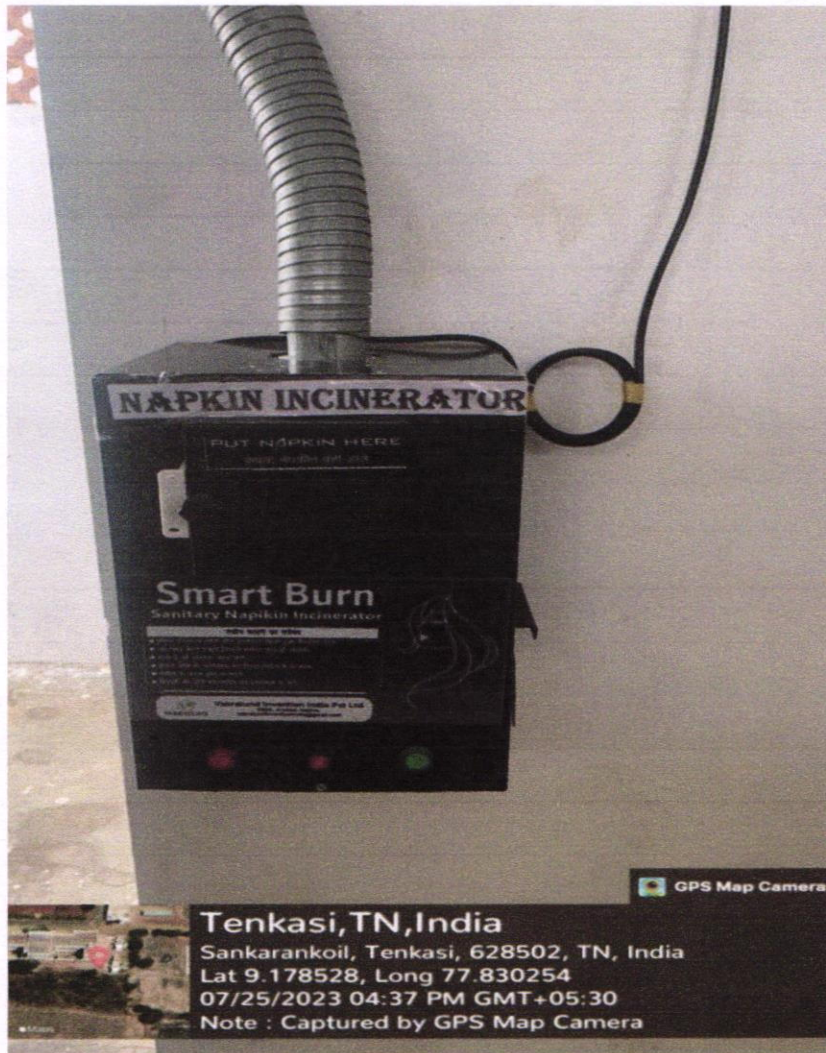
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## Sanitary Napkin Incinerator

The safest method of disposing the used sanitary napkins is through electric incinerators. In an effort to encourage proper disposal of menstrual hygiene napkins, the UGC had asked all universities to prompt women to use eco friendly.



**Sanitary Napkin Incinerator**



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## Collection of plastic waste



## Degradable and non-degradable waste management



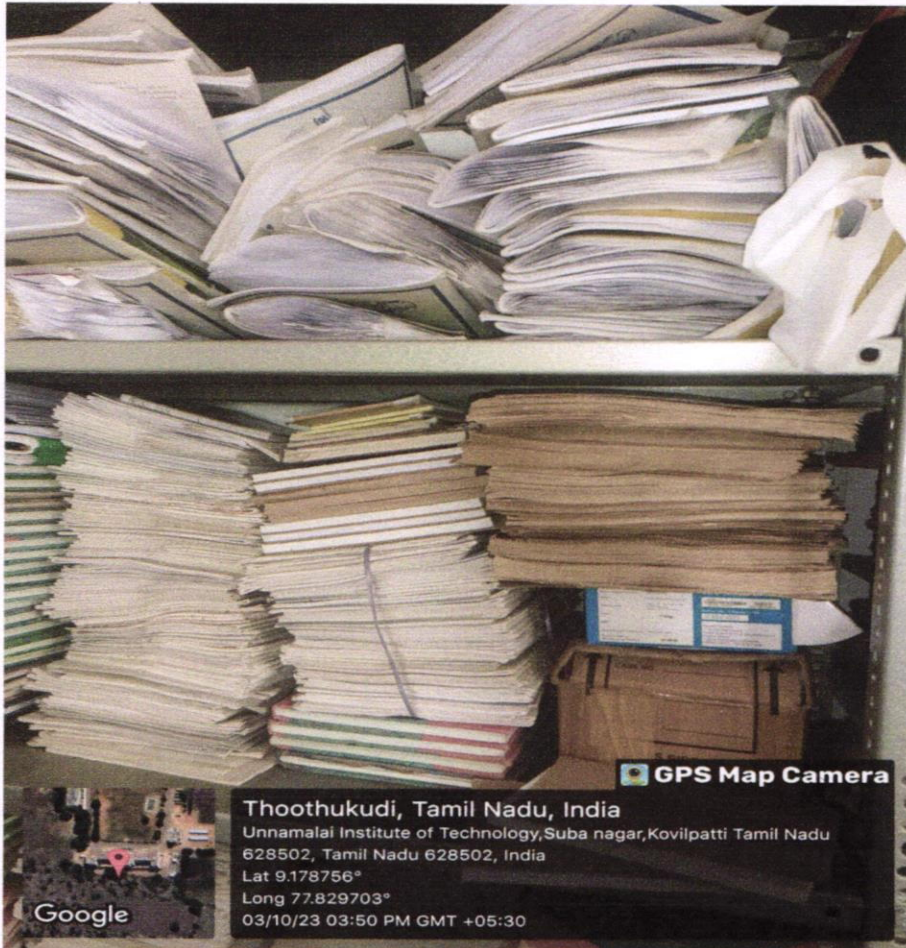
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## Paper waste



## Paper waste



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## E-waste management

E-Waste are stored for academic demonstration purpose and also sold out to entity with whom MOU was agreed upon for the disposal of obsolete e-materials every year.





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## MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

UNNAMALAI INSTITUTE OF TECHNOLOGY, KOVILPATTI

AND

AYYANERI PANCHAYAT, KOVILPATTI

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 25<sup>th</sup> day of January 2023 by and between **Unnamalai Institute of Technology, Kovilpatti** and **Ayyaneri Panchayat, Kovilpatti**.

**Unnamalai Institute of Technology**, the First party represented herein by its Head of Institution **Unnamalai Institute of Technology, Kovilpatti** and **Ayyaneri Panchayat, Kovilpatti**, the Second Party represented herein by President.

WHEREAS:

- First Party is a Higher Educational Institution, **Unnamalai Institute of Technology, Kovilpatti**. Second Party is **Ayyaneri Panchayat, Kovilpatti**.
- The Parties intent to cooperate and focus their efforts on cooperation within area of health awareness, social awareness, Education awareness, Women Empowerment, ban Plastic usage and tree plantation.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:

### CLAUSE 1

### COOPERATION

- Both Parties are united by common interests and objectives, and they shall establish co-operation.
- First Party and Second Party co-operation will facilitate effective utilization of the Programs.
- The Parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.



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## CLAUSE 2

## SCOPE OF THE MoU

2.1 The Second Party to permit the Faculty and Students of the First Party to visit the villages for health awareness, social awareness and planting of trees through NSS and YRC Program.

2.2 First Party to extend the necessary support to organize program through NSS and YRC to the People of the Ayyaneri Panchayat.

2.3 First Party will actively engage to help the people of the Ayyaneri Panchayat through Blood Donation camp, AIDS Awareness program, Corona Awareness and Precaution Program and SWACHH Bharat Mission.

2.4 There is no financial commitment on the part of the **Unnamalai Institute of Technology, Kovilpatti** the First Party to take up any program mentioned in MoU.

2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

## CLAUSE 3

## VALIDITY

3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Part.

## CLAUSE 4

## RELATIONSHIP BETWEEN THE PARTIES

4.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership.

  
25/1/23  
First Party

PRINCIPAL  
Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502.  
Thoothukudi (Dt)

K.சிந்திரா  
25-1-2023  
Second Party  
தலைவர்  
அய்யனேரி உணராட்சி மன்றம்  
குருவிசுளம் ஒன்றியம்



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# Water Conservation



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The following water conservation facilities are available

at our Institution:

- Rain Water Harvesting
- Bore well
- Water storage tank
- Drinking Water Distribution System





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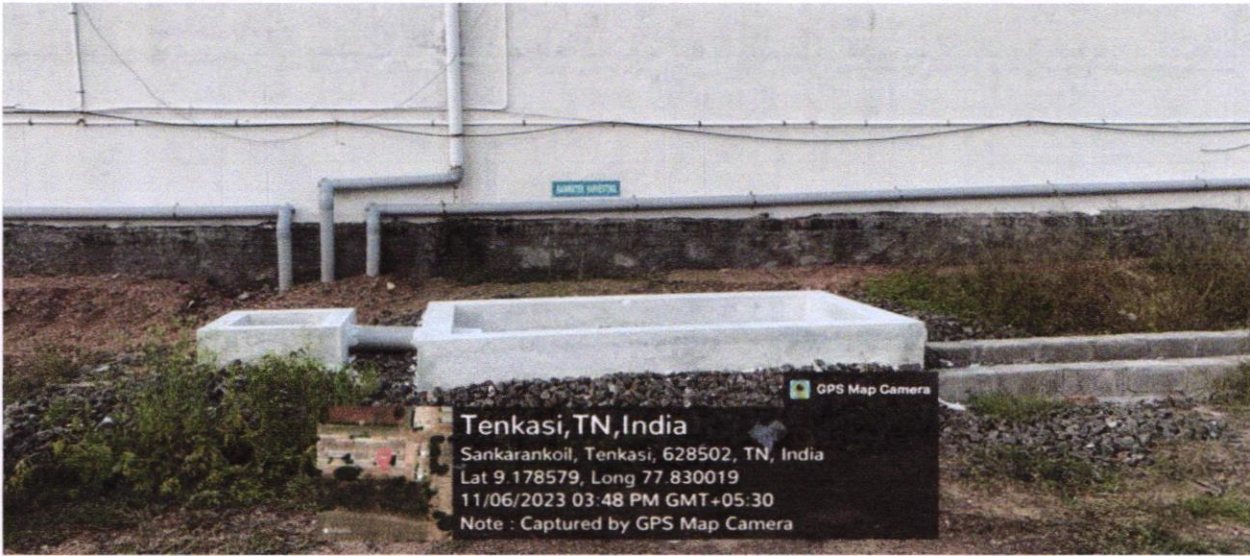
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## Rain Water Harvesting

Our college has very good water management plan to support all our water needs including canteen purposes. The water management is well supported with rain water harvesting and sump. The ground water is circulated to all overhead tanks using bore wells.



**Rain water harvesting tank 1 at college backside**



**Rain water harvesting tank 2 at college backside**