

St. Joseph's College of Education for Women

Opp. Sambasivapet 2nd Lane, Naaz Center, GUNTUR, A.P., INDIA.
(Under the Management of Society of Jesus Mary & Joseph)



7.1.4

Documentary Evidence in Support of the Claim

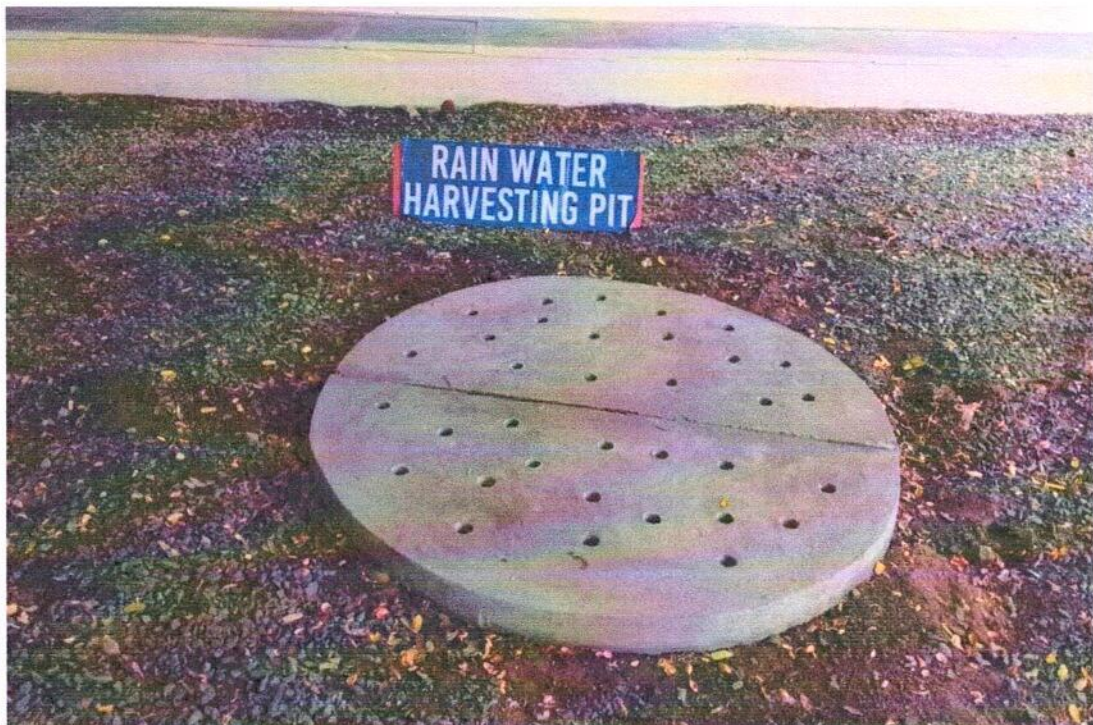
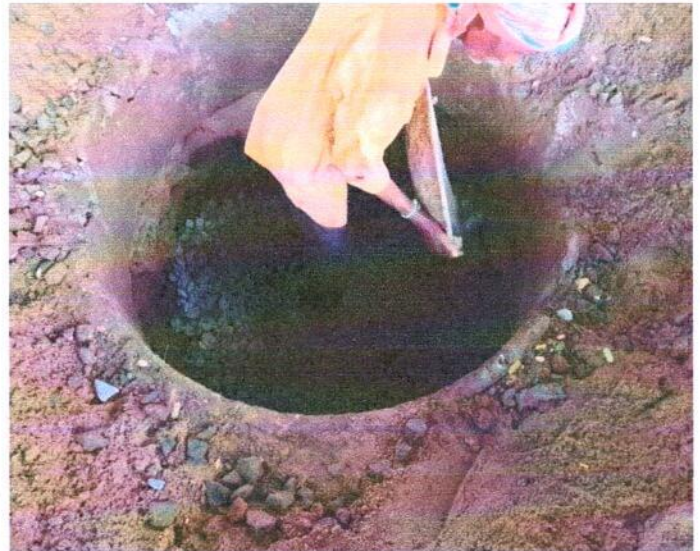
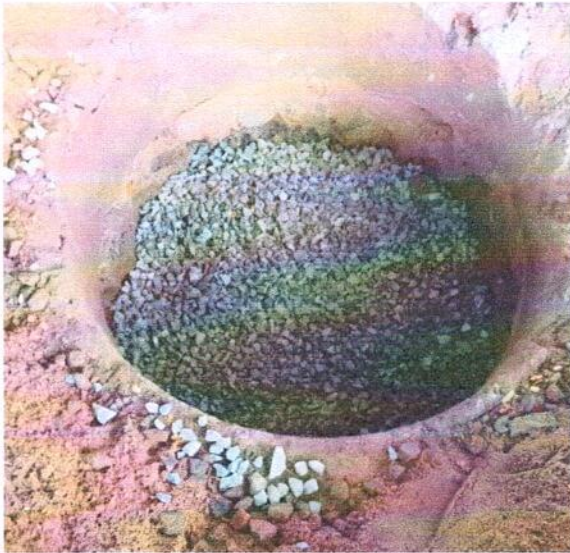


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**Water
Management
and
Conservation
Initiatives**

Rain water Harvesting Pit

Rain water harvesting is an important environment friendly approach. Due to rapid increase in day –to-day demand for water among fast growing human population there lies a great opportunity of harvesting rain water to meet the scarcity of water and avoid destruction of the normal ground water level.



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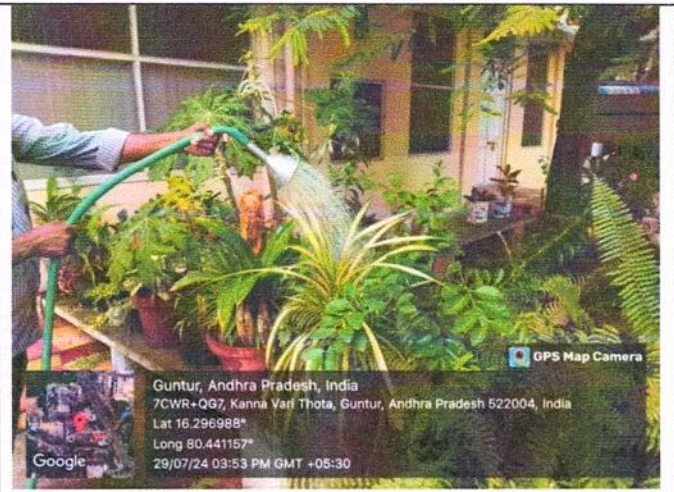
Wastewater Recycling

Wastewater recycling is the process of treating and reusing water that has been used in households, industries, or agriculture. By removing contaminants and impurities through various treatment methods, recycled wastewater is safely repurposed for non-potable uses like irrigation, industrial processes, and even replenishing groundwater. Wastewater recycling reduces the demand for fresh water, conserves natural resources, and minimizes the environmental impact of wastewater disposal. It is a sustainable practice that helps address water scarcity and supports long-term water management strategies. Having this as a base, at SJCE we have a system to recycle the waste water and to use them for our gardening and greenery maintenance of the campus.

Using of recycled water for Plants



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Utilizing reclaimed water for Plant irrigation



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Water sensor Alarm

A water sensor alarm is a device designed to detect the presence of water in areas where it shouldn't be, such as basements, bathrooms, or near water pipes. When the sensor detects water, it triggers an alarm, alerting users to potential leaks or flooding.

Implementing water sensor alarms in our institution helps to protect the infrastructure by providing timely alerts about leaks or floods. This proactive approach prevents damage to buildings, equipment, and valuable records, ensuring the safety and continuity of operations. Regular maintenance and testing is conducted to ensure the sensors are functioning correctly. By integrating water sensor alarms into the institution's safety protocols, administrators are effectively managing and mitigating the risks associated with water damage.



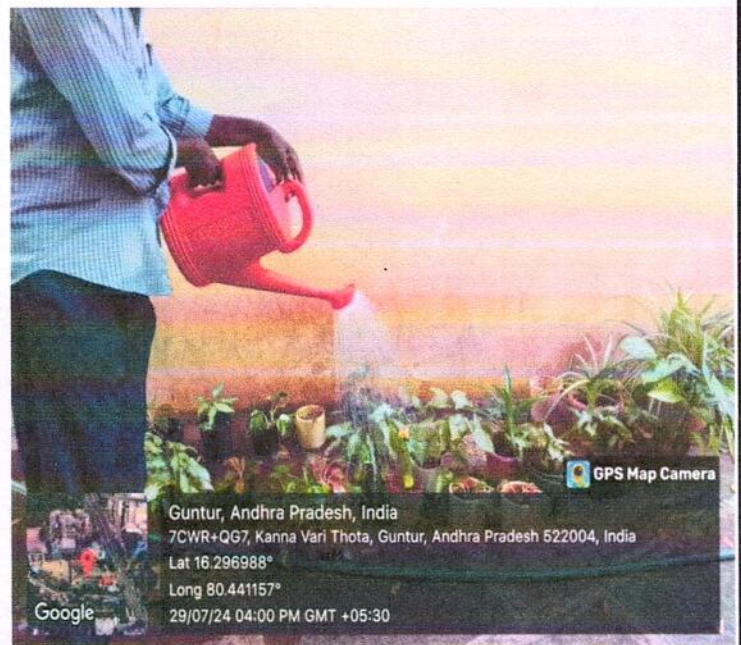
Water sensor alarm helps to take action promptly



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Implementing Smart Irrigation in a Small Scale

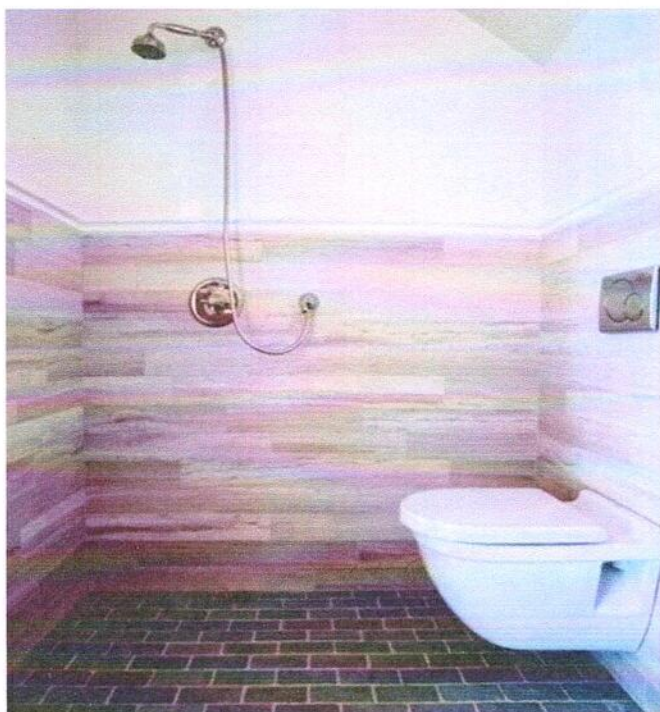
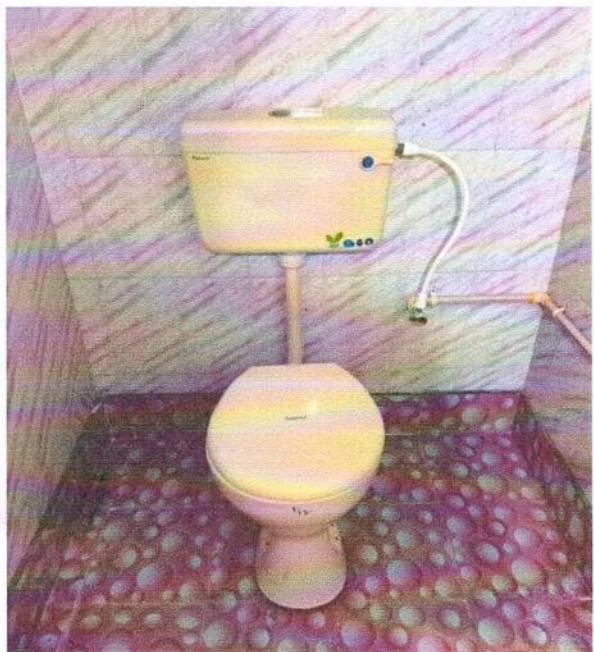
Smart irrigation is an advanced method of watering the landscapes that uses optimized water usage. It is used to moisture the soil and to monitor them to the precise amount of water needed for the plants. So follow this method and try to overwater or underwater, in real-time to environmental conditions, ensuring that plants receive the right amount of water at the right time. This not only conserves water but also improves crop yield and promotes sustainable growth. This is encouraged among the students to have wherever possible and motivate their neighborhoods specially in the rural for agricultural and other cultivation. It is an essential tool for efficient water management, especially in regions facing water scarcity.



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Water Efficient Fixtures

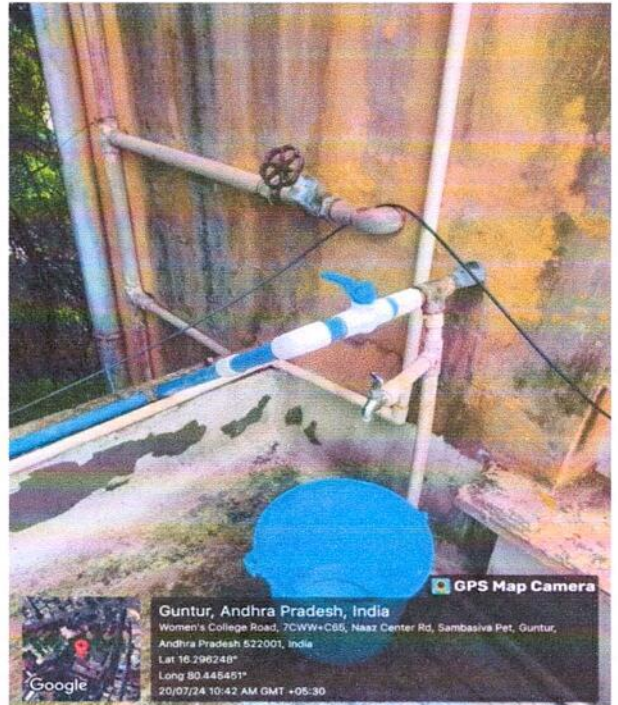
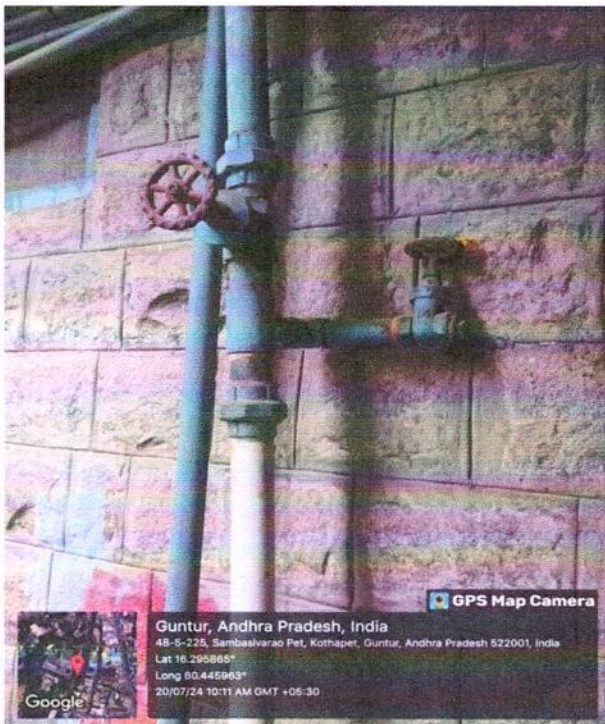
Water-efficient fixtures are devices designed to reduce water consumption in homes, offices, and other buildings without compromising performance. These include low-flow faucets, showerheads, dual-flush toilets, and water-saving appliances. By using these advanced equipment in our college we limit water flow or optimize usage and these fixtures help us to conserve water, lower utility bills, and contribute to environmental sustainability. Implementing water-efficient fixtures is a simple yet effective way to promote responsible water use and support long-term water conservation efforts.



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Reuse of wastewater

Reusing the wastewater, also known as water recycling, which involves treating used water so it is reused for various purposes, even potable water in some cases. This practice in our campus helps conserve fresh water resources by reducing the demand for new water supplies. It also minimizes the environmental impact of wastewater discharge, as treated water is returned to the cycle instead of being released into the environment. It is an essential strategy for sustainable water management, especially in while facing water scarcity, and it supports efficient, circular approach to water use.

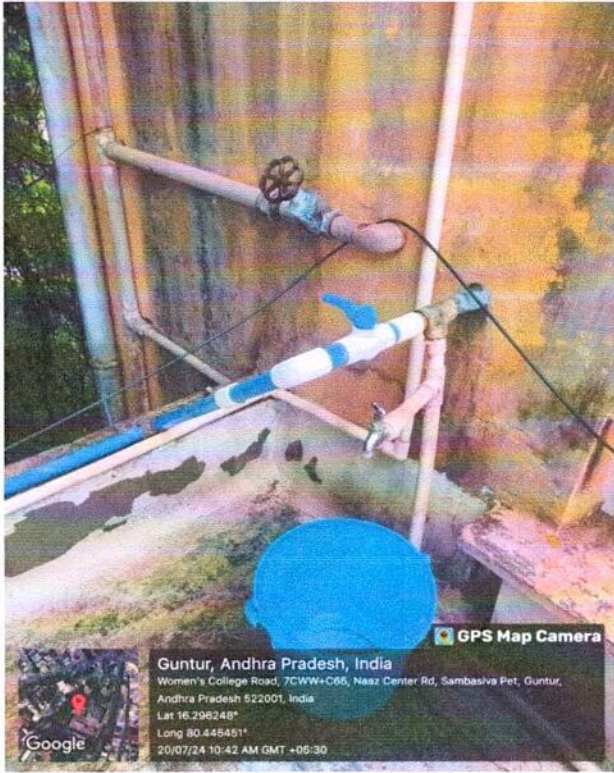


The water dropped from the pipes are collected for the reuse



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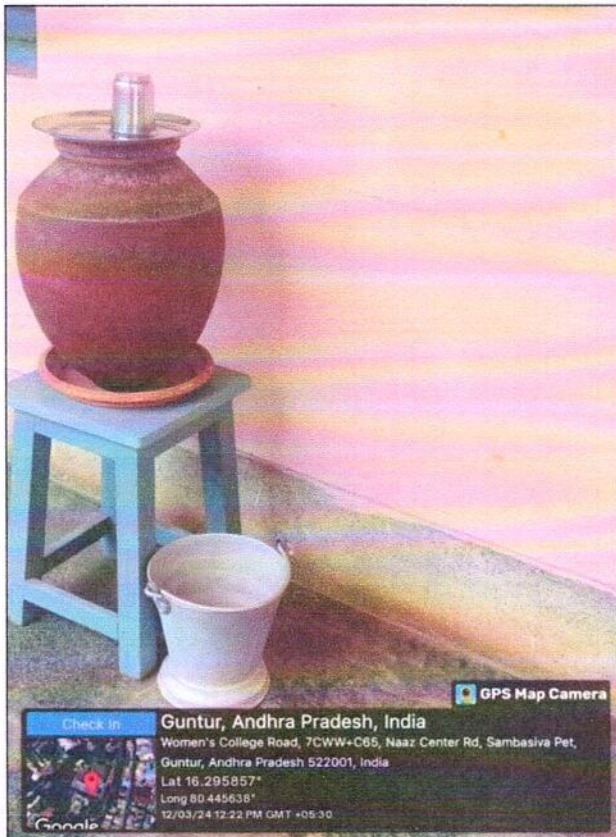
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 Andhra Pradesh 522001, India
 Lat 16.296248°
 Long 80.445451°
 20/07/24 10:42 AM GMT +05:30



Guntur, Andhra Pradesh, India
 48-5-225, Sambasivarao Pet, Kothapet, Guntur, Andhra Pradesh 522001, India
 Lat 16.295911°
 Long 80.445784°
 20/07/24 10:13 AM GMT +05:30



Check In: Guntur, Andhra Pradesh, India
 Women's College Road, 7CWW+C65, Naaz Center Rd, Sambasiva Pet,
 Guntur, Andhra Pradesh 522001, India
 Lat 16.295857°
 Long 80.445638°
 12/03/24 12:22 PM GMT +05:30



Guntur, Andhra Pradesh, India
 RAJA'S GARDEN, 12-10, Sambasiva Pet, Guntur, Andhra Pradesh 522001, India
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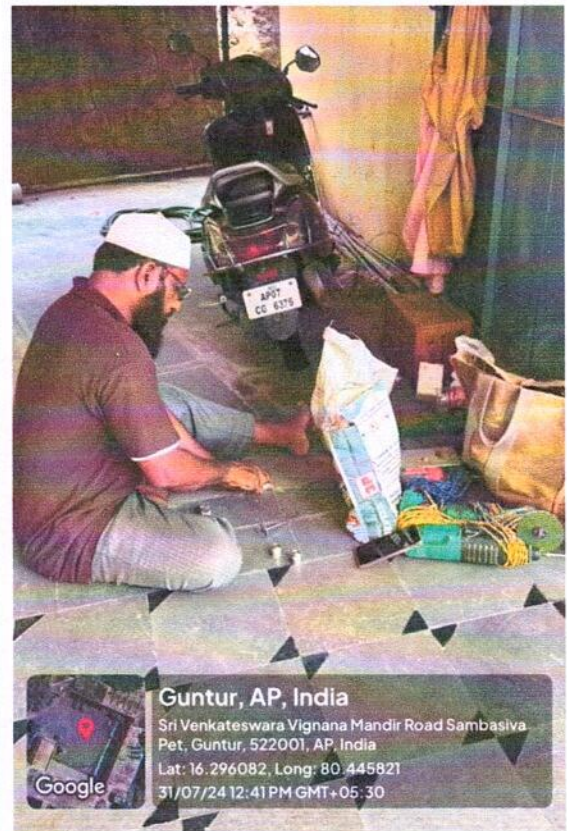
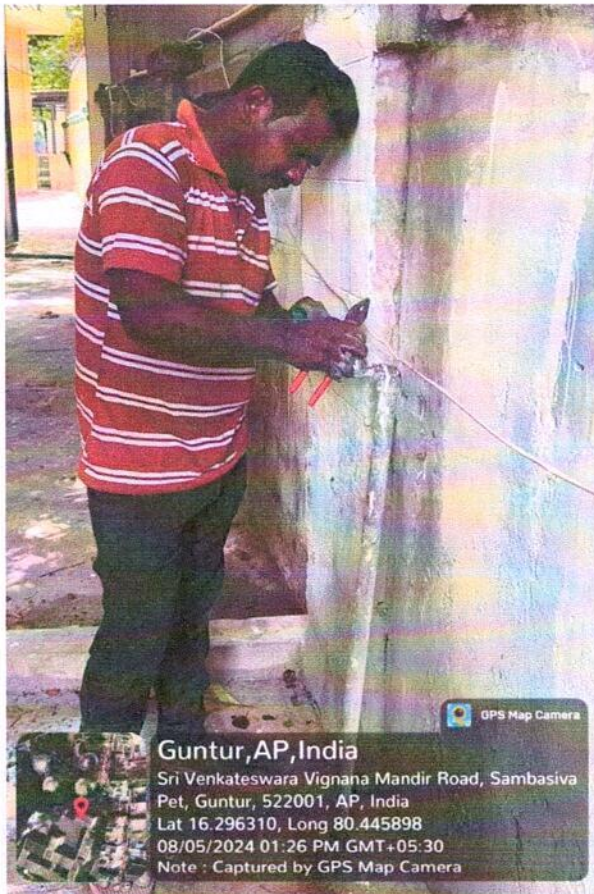
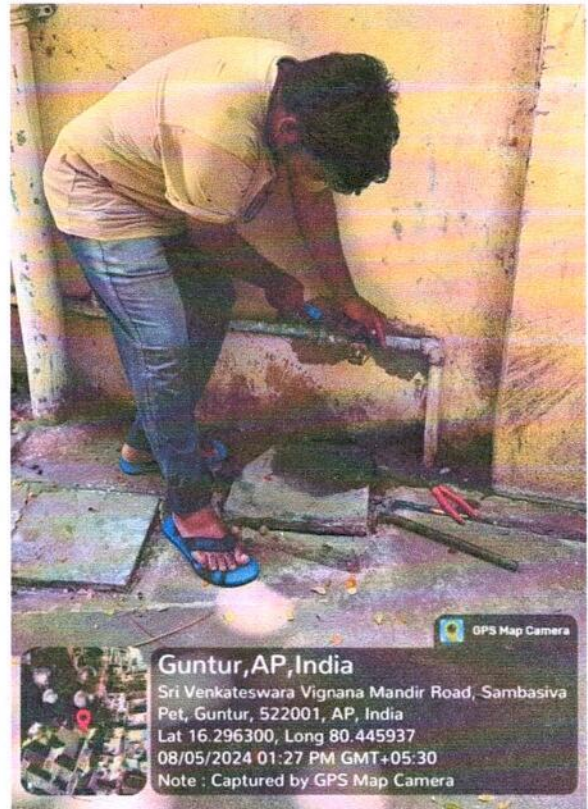
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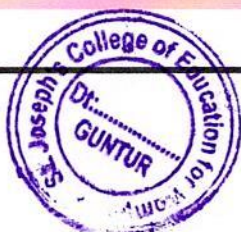


Periodical Maintenance

When any leakage or repair is found, immediately SJCE management takes the action to repair and maintain the system.



Repair was done by our Technicians



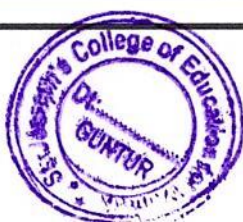
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Overhead

Tanks

Bore well

& Sump



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Over Head Tanks

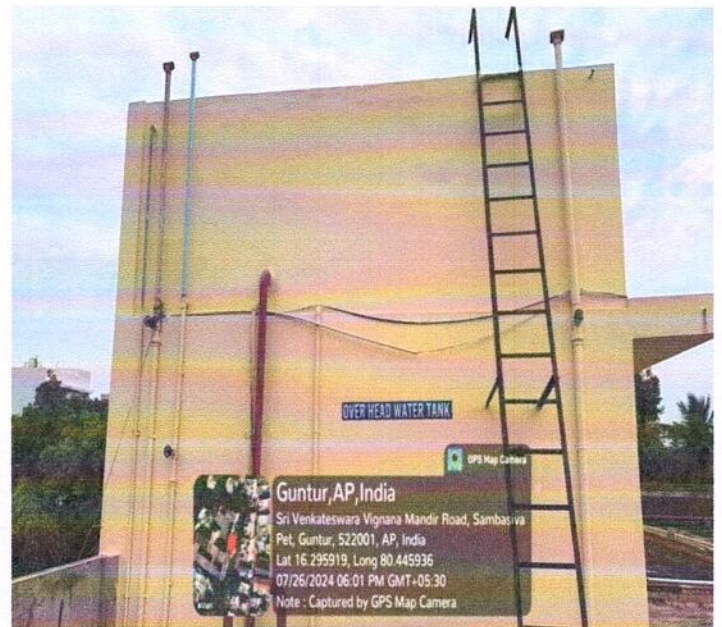
Overhead tanks and bore wells are essential components of water storage and supply systems in our institution particularly when water supply is limited or inconsistent.

We have large overhead tanks installed on rooftops in an elevated structures to store water. They serve as a reliable source of water for our institutions use ensuring a steady supply even during water shortages. Water is pumped into these tanks from various sources, such as bore wells and municipal supplies, and then gravity allows it to flow through the plumbing system when needed. Overhead tanks are widely used for all water needs, including drinking, cooking, bathing, and cleaning. They provide a dependable solution for managing our water needs, supporting both daily consumption and emergency water requirements.

We have Sump where the municipality water is stored and taken to the overhead tank through motor in order to ensure that water scarcity is not experienced by the staff and students. We have 4 over heads tanks on the top of the college. These are used to store water for our daily usage. It helps to reserve water in any case of interruptions in the main water supply. It is used to save water to use throughout the day



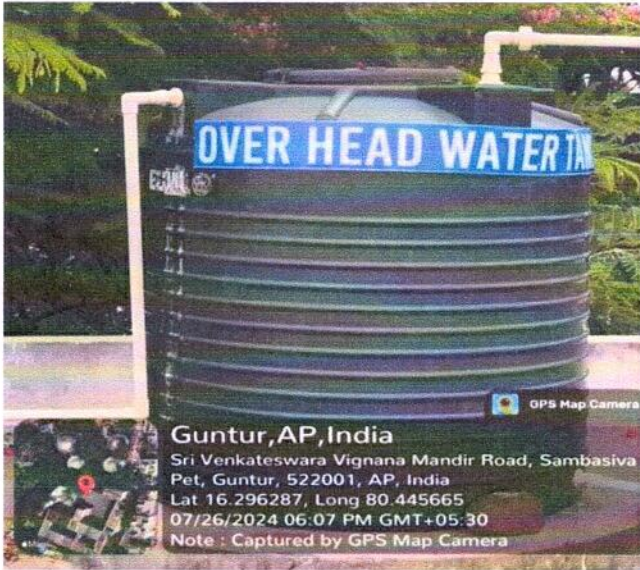
Hostel Block Water Tank



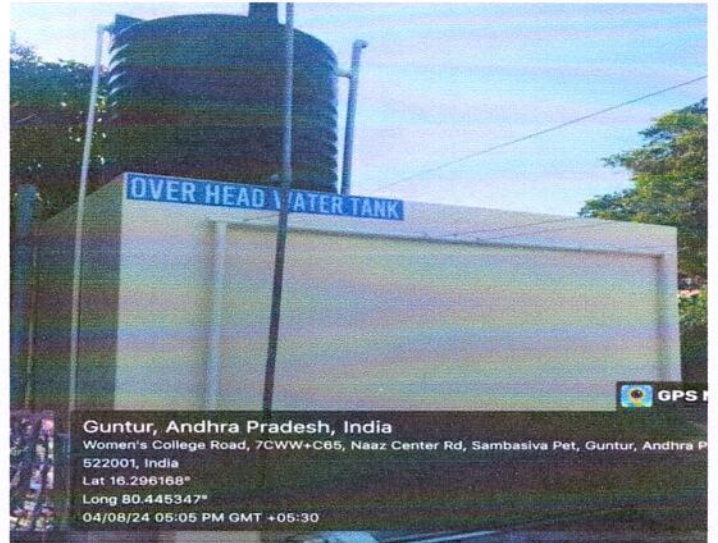
College Block Water Tank - I



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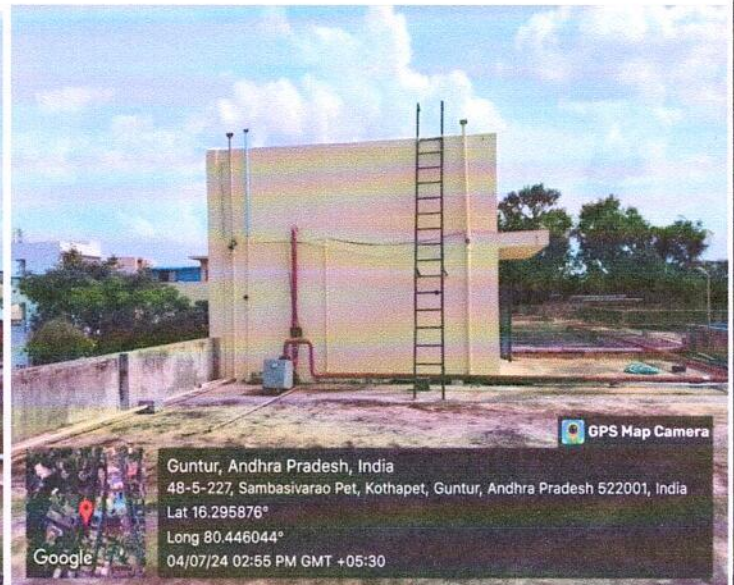
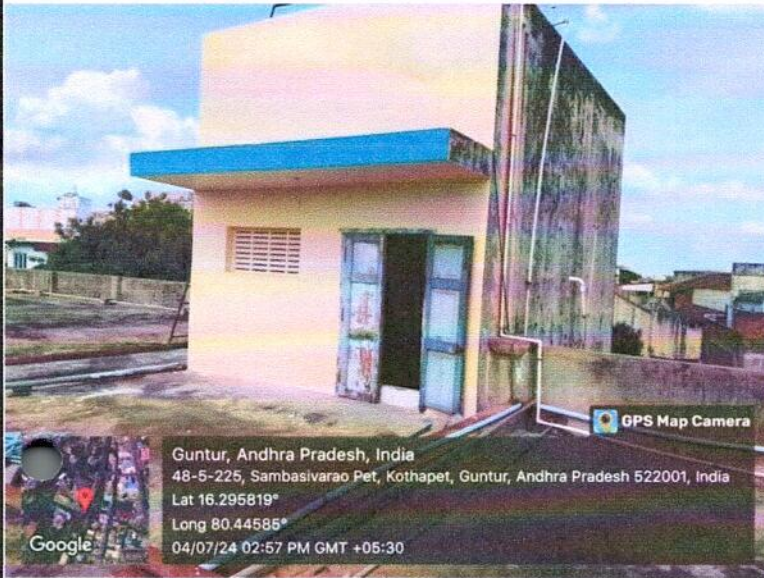


New Building Block Water Tank



Holy Rosary Convent Water Tank

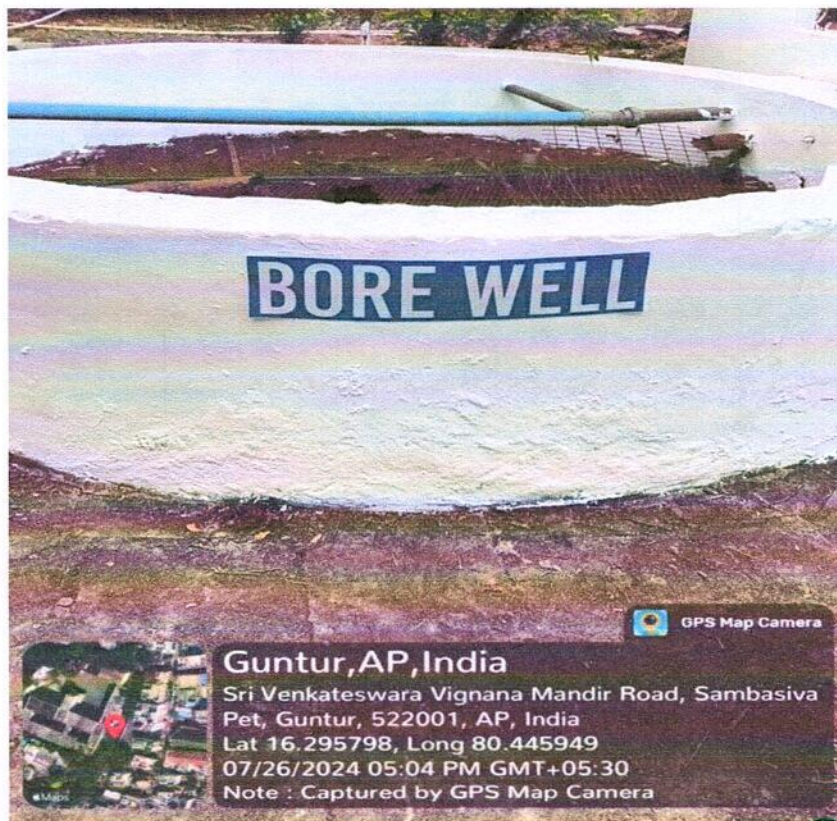
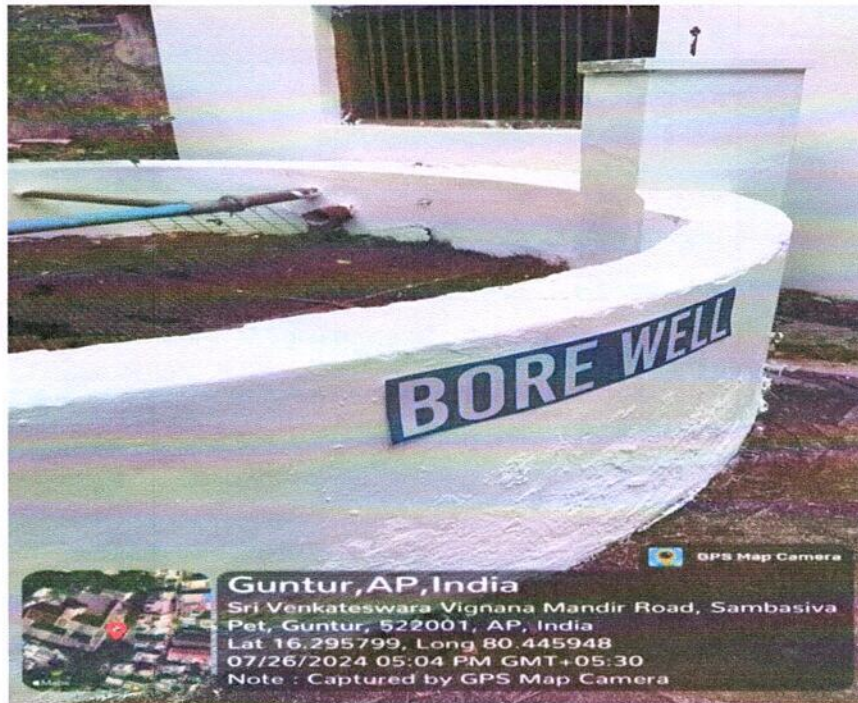
Water tank distribution system



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Bore well

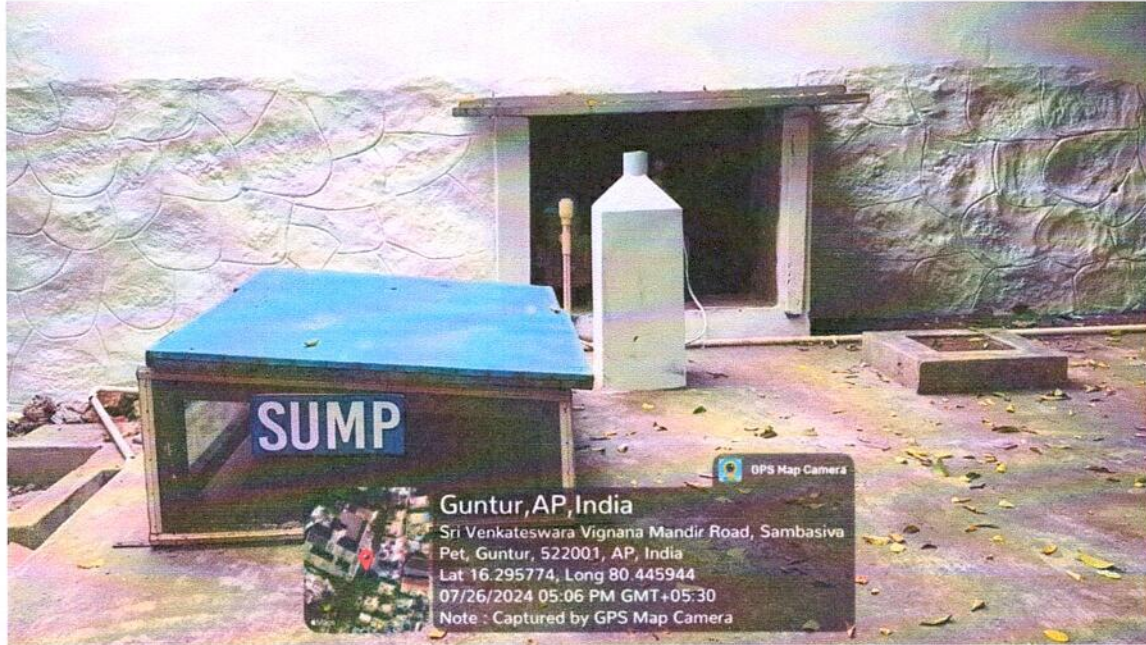
In SJCE campus we have one bore well whenever scarcity of water arises, then we use ground water for domestic use.



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Sump

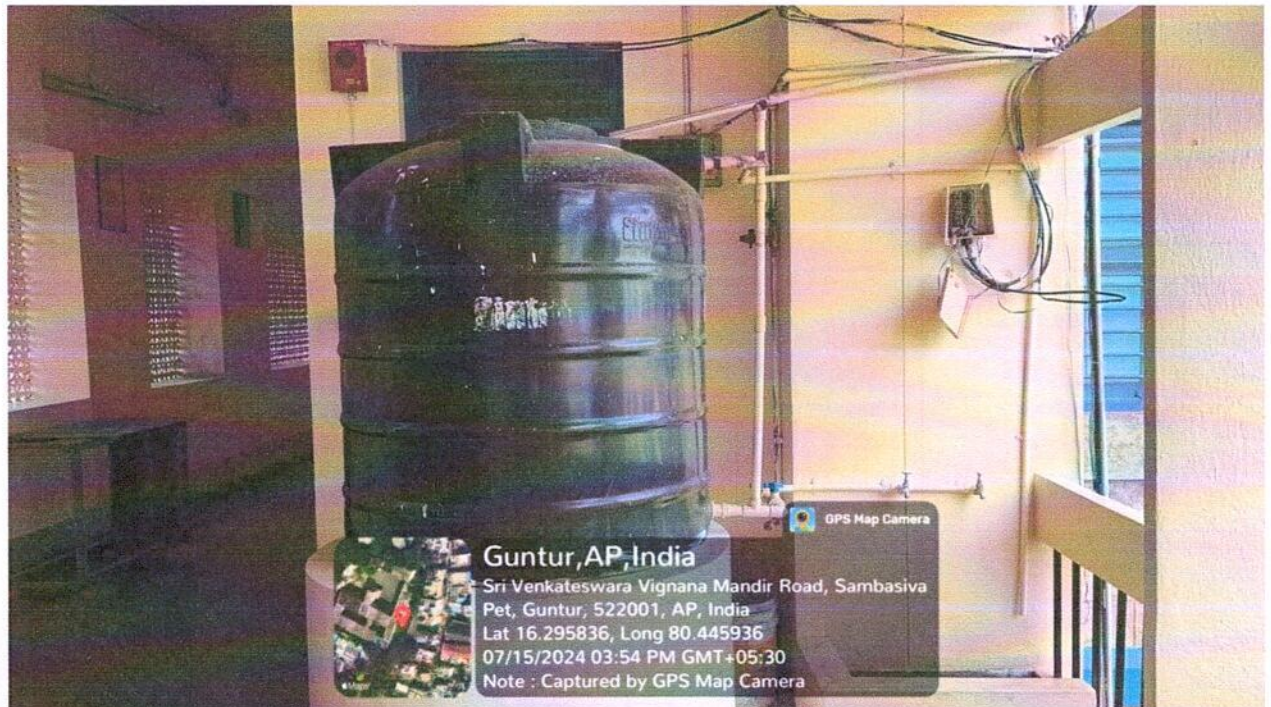
We have sump and reservoirs used to storage to hold and manage water .These are essential for managing water resources, providing stability and support for water usage.



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Economical Usage/ Reduced wastage



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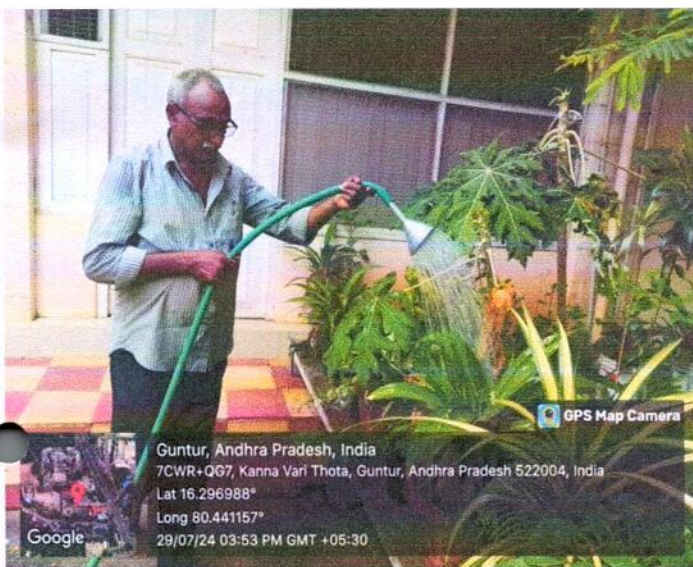
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Economical Usage /Reduced Wastage

Economical usage and reduced water wastage in our institution are precious efforts by both staff and students to conserve this vital resource. By adopting water-saving practices such as turning off taps when not in use, fixing leaks promptly, and using water-efficient fixtures, we significantly reduce water wastage. These measures not only help lower water bills but also promote environmental sustainability. Through awareness and responsible behavior, everyone in the institution contributes to efficient water management, ensuring that this precious resource is used wisely and preserved for future needs.

As A part of teacher training, we train our students to use of water resources efficiently, minimize wastage, reusing waste water for garden can reduce the demand for fresh water.

We conduct seminar on awareness of water usage /Importance of water throughout the campus and display sign boards like SAVE WATER, DON'T WASTE WATER etc.



Using sprayers for gardening can be very beneficial for reduce the water usage



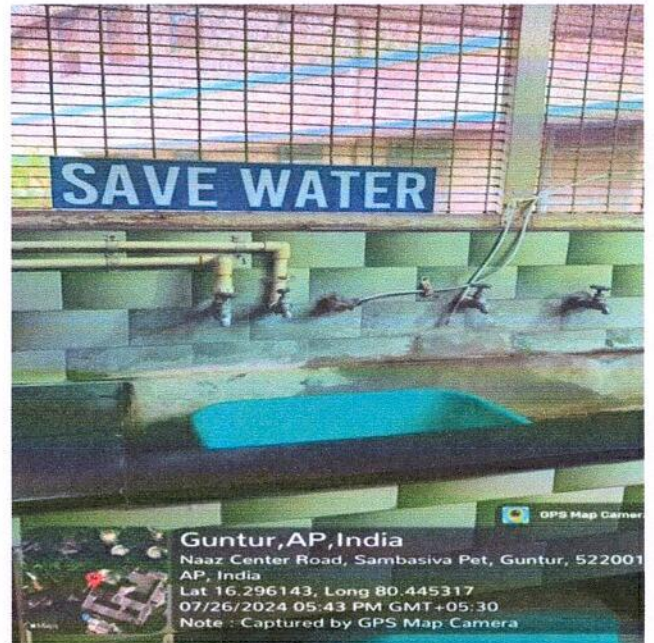
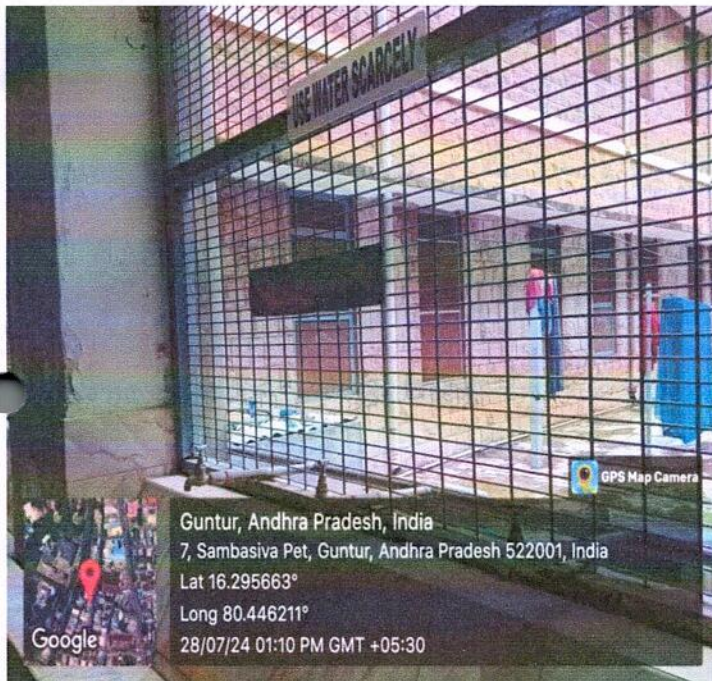
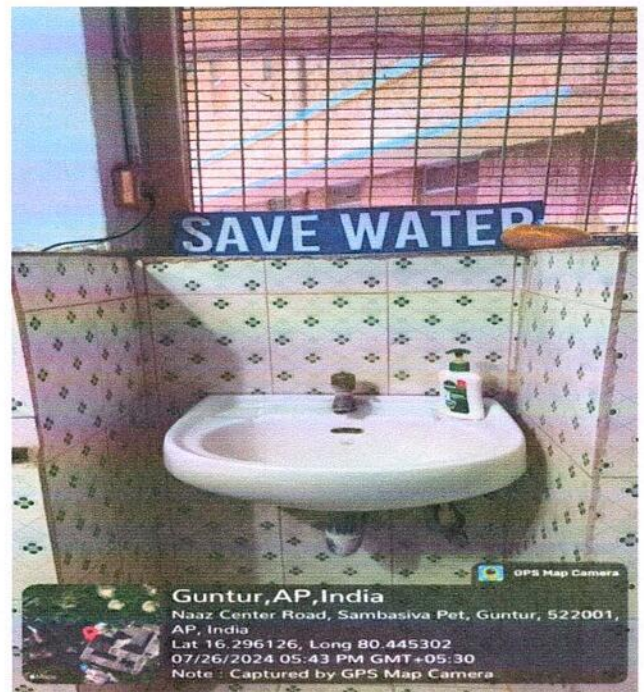
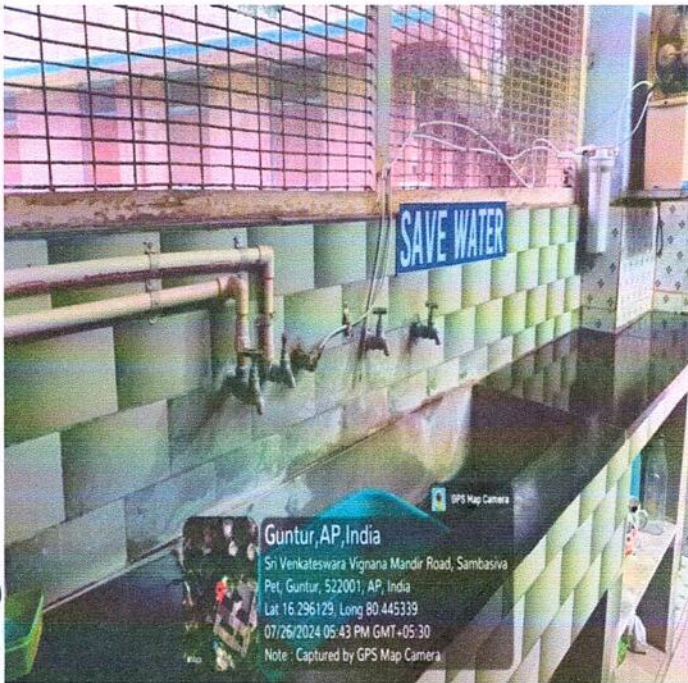
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Sign Boards to save Water

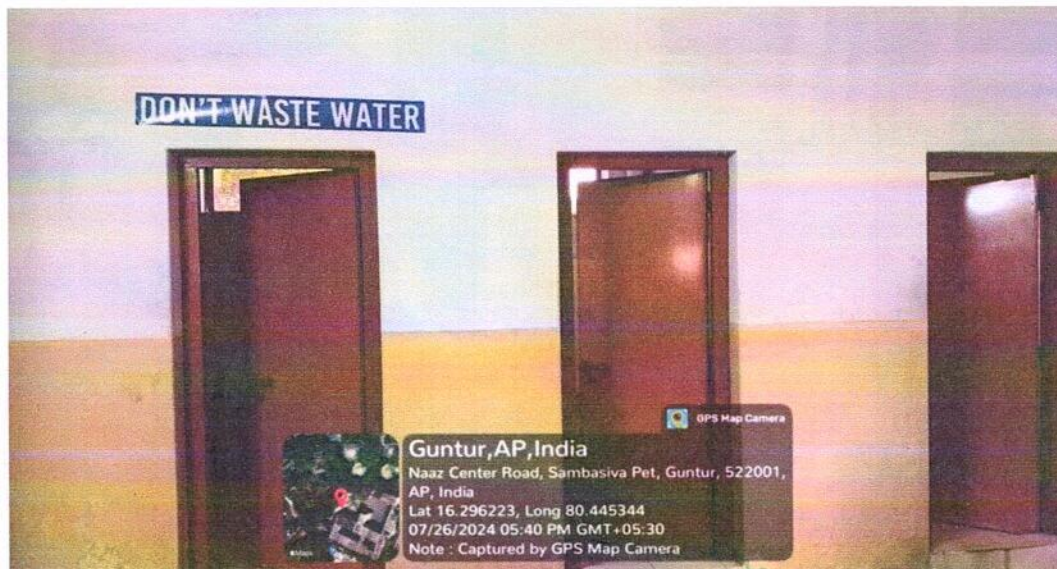
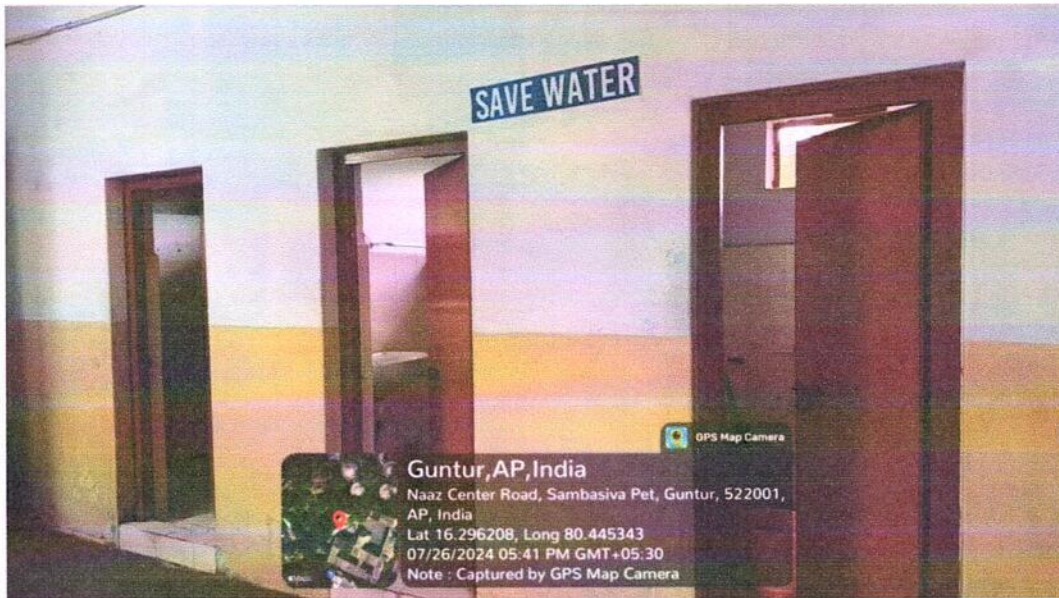


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Alerting students to use minimal water



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Sign boards to encourage efficient water use

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Awareness Programmes Conducted



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Awareness Programme on Save Water Save Life

An awareness program was conducted on "Save water Save life" on 09.09.2019 Dr. Shaik Aktharunnisa Begum, Assistant professor, St. Joseph's college of Education for women was the resource person. She explained that water is an essential resource for all forms of life on earth, 'Save water save life' is not just a slogan, it is a call to take action for ensuring the sustainability of our most precious resource i.e water. She explained about the regions around the world facing severe water shortage and encouraged the students to use water economically and save water because every drop of water counts. So 'Save water Save life' should be the slogan of everyone and everyone should put it into action.



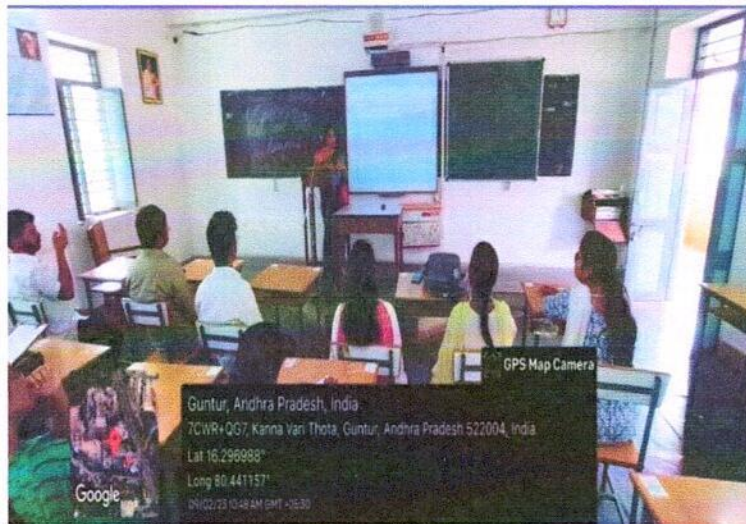
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Awareness Programme on Waste and Water Management

An Awareness programme was conducted on 9th February 2023 on waste and water management, we invited K. Sireesha, lecturer from R.V.R College of Education Guntur. She explained that waste and water management are critical components for sustainable development and environmental conservation. Proper management practices not only protect natural resources but also promote public health, economic stability and eco system integrity. She suggested some strategies for effective Waste and Water Management that include relation, recycling, efficient use and pollution control. It is a collective responsibility that requires the participation of everyone, communities, Government and industries.



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