

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)



7.1.1

Link for Additional Information



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FOR WOMEN
GUNTUR-522 001., A.P.

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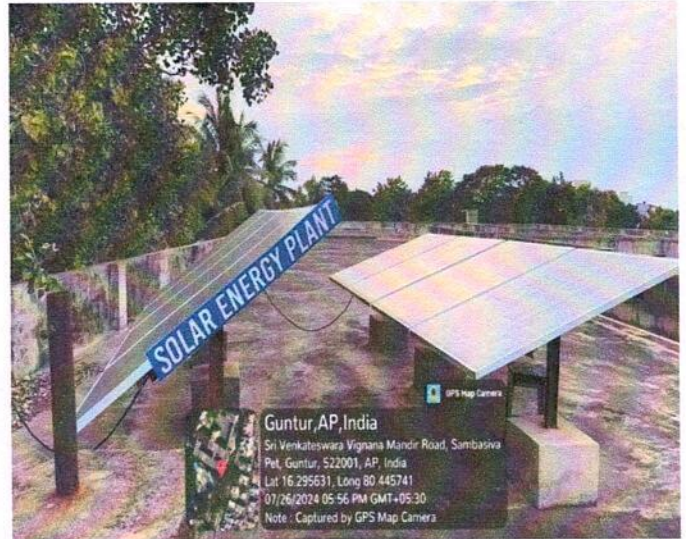
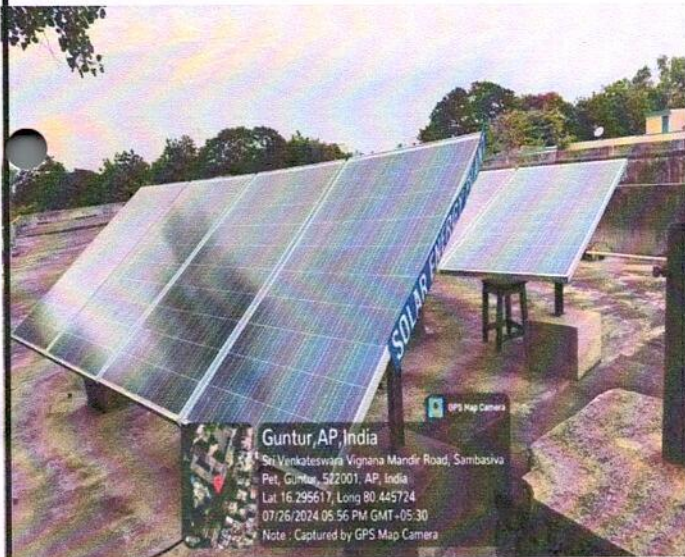
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Solar Energy Plant

The integration of a solar plant in our campus marks a significant stride towards sustainability and energy independence. The solar plant was installed on the rooftops of key buildings in open areas with ample sunlight exposure. By harnessing solar energy, the campus significantly reduces its carbon footprint. The solar plant provides considerable financial benefits through reduced energy bills. The solar plant offers numerous educational opportunities for students and faculty. It serves as a living laboratory for studying renewable energy technologies, energy management, and sustainability practices.



Solar Energy Panels in Block-1



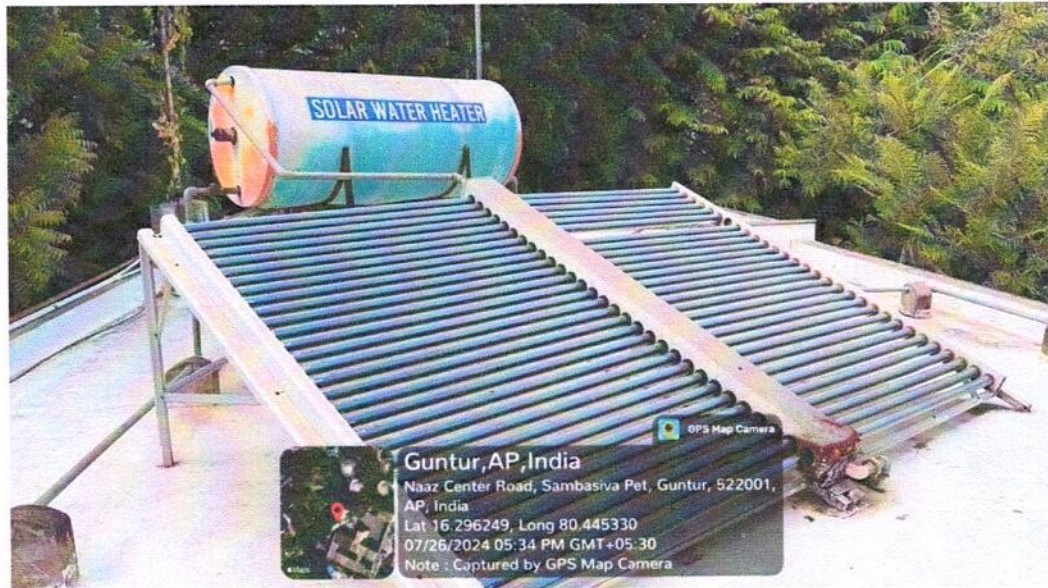
Solar Energy Panels in Block-2



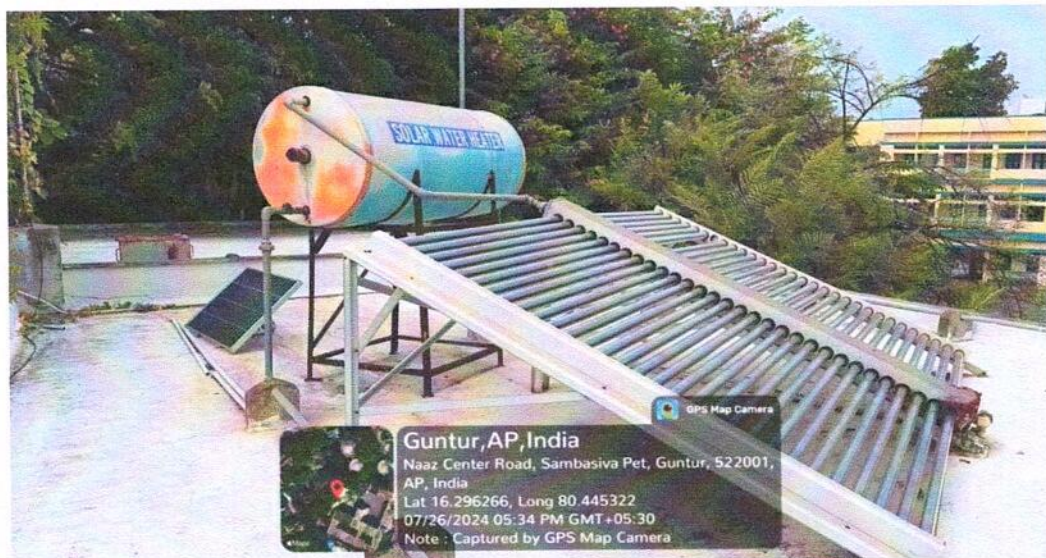
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Solar water heater

We in SJCE have installed the solar water heaters in our campus which is part of our ongoing efforts to promote sustainability and reduce our environmental footprint. By utilizing solar energy to heat water, the campus significantly reduces its reliance on fossil fuels. This transition helps decrease greenhouse gas emissions and lowers our carbon footprint. This initiative not only supports our green goals but also serves as a model for other institutions looking to adopt renewable energy solutions reducing the use of electricity.



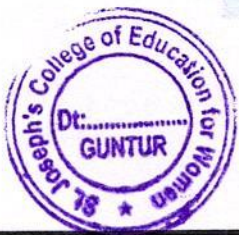
Solar water heater in Block - 1



Solar water heater in Block - 2

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L.E.D (Light Emitting Diode) Lights

The transition to LED lighting across our campus underscores our commitment to sustainability and energy efficiency. It reduces energy consumption, lower maintenance costs, and enhanced lighting quality. It not only lowers our electricity bills but also reduces the demand on power plants. This initiative aligns with our goals of minimizing our environmental impact and promoting sustainable practices. The reduced energy consumption of LEDs results in lower carbon dioxide emissions, helping to combat climate change.



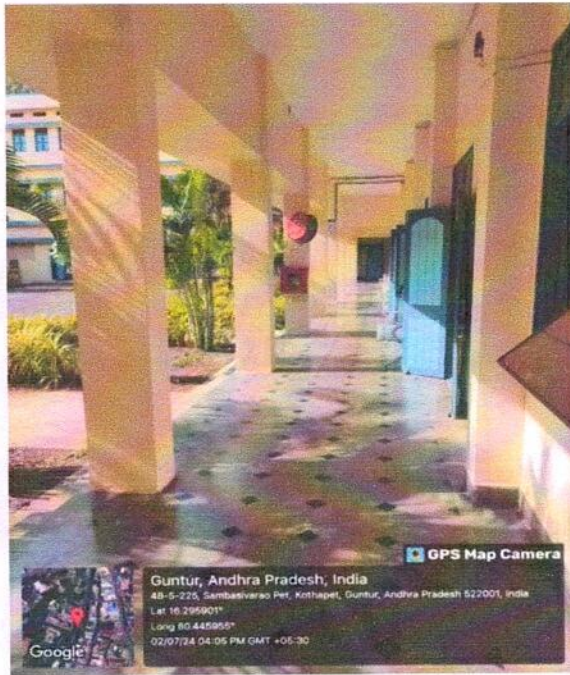
Installation of LED Lights in the Rooms



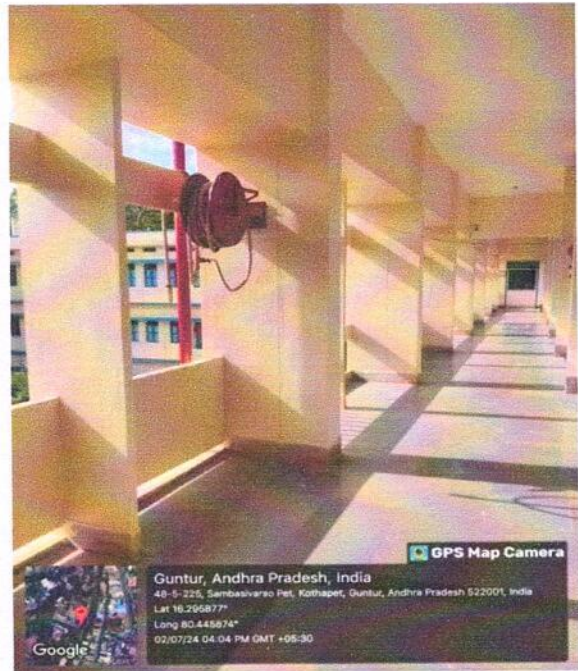
P. Suresh Babu
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Natural Ventilation

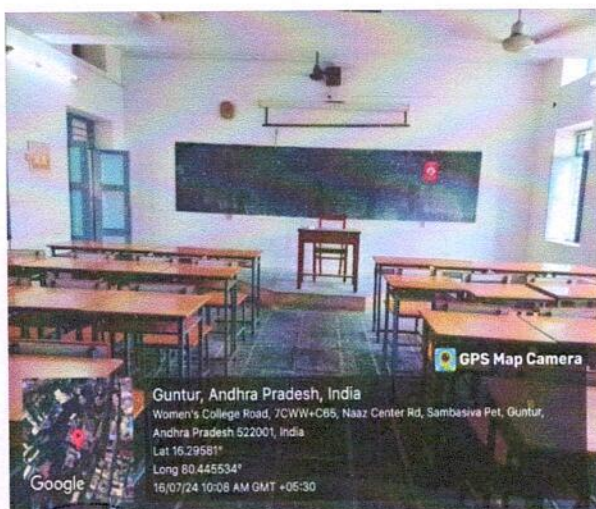
The integration of natural ventilation systems in our campus is a key component of our sustainability and wellness initiatives. It not only minimizes energy consumption but also creates a healthier and more comfortable environment for students, faculty, and staff. By purposefully placing windows, vents, and openings, buildings maximize these natural forces to ensure a continuous supply of fresh air. It also encourages the adoption of eco-friendly design principles beyond the campus.



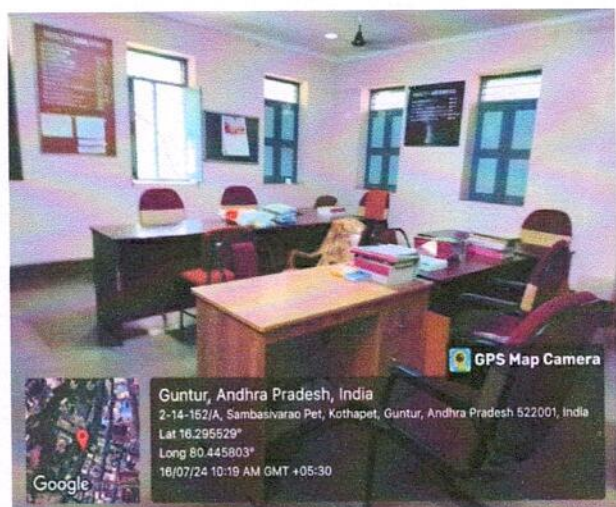
Ventilated Corridor - Ground Floor



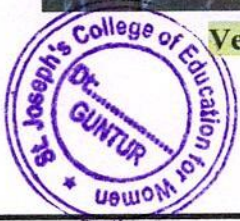
Ventilated Corridor - First Floor



Ventilated Classrooms



Ventilated staff room



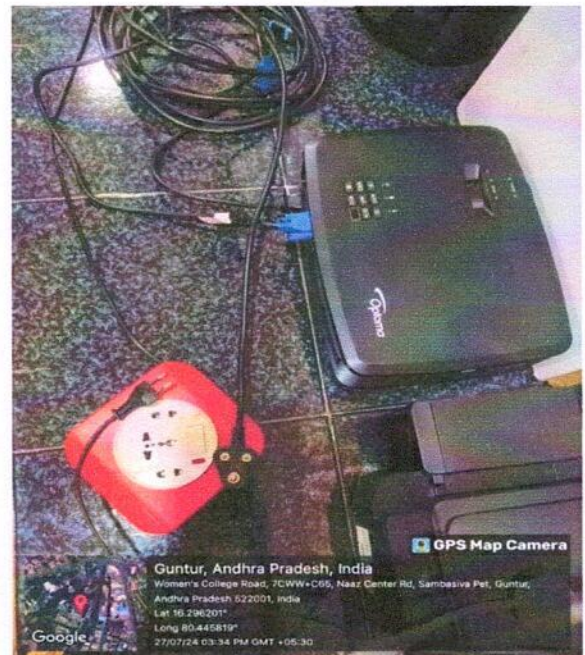
S. Sivarajalaxmi
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Unplug the Device When not in Use

Unplugging devices when not in use is a simple yet effective strategy to save energy and reduce electricity bills. Many electronic devices and appliances continue to draw power even when they are turned off but remain plugged in, a phenomenon known as "phantom" or "standby" power. By conscientiously unplugging devices, we are minimizing the unnecessary energy consumption in the campus and contribute to a more sustainable environment.



Practice of unplugging the devices after the use



Practice of unplugging device from the Socket after the use

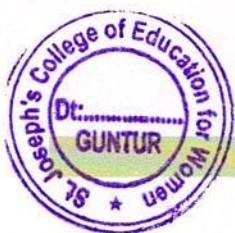
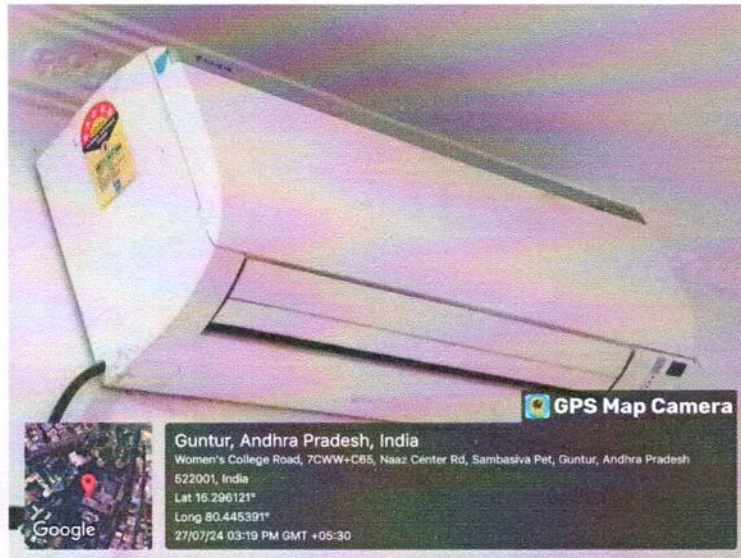


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Use of Certified Devices

Using certified devices is a crucial step towards ensuring energy efficiency, safety, and environmental responsibility. As they have undergone rigorous testing to meet the specific standards set by reputable organizations we use these devices which perform efficiently, safely, and sustainably, benefiting both consumers and the environment. Five star devices are certified by organizations as energy star, which are designed to be highly energy –efficient and it helps to lower energy consumption.

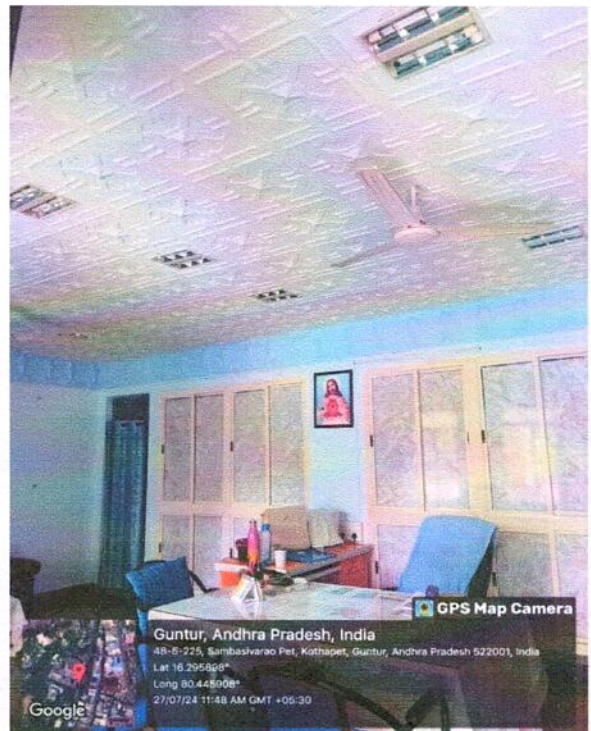
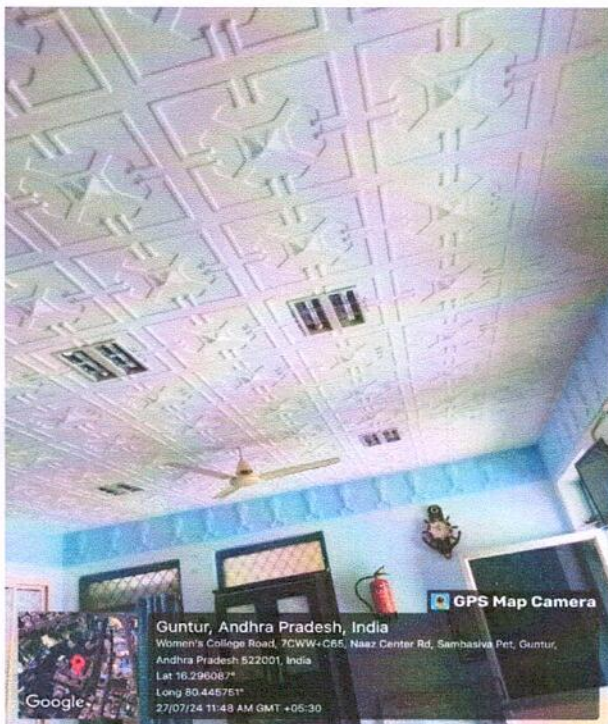


Five star certified devices

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Turning off the lights and fans

Turning off lights and fans when they are not in use is a simple yet highly effective way to conserve energy, reduce electricity bills, and minimize environmental impact. This practice, is adopted widely, that leads to significant energy savings and contribute to a culture of sustainability, by decreasing energy demand. It prolongs the life span of bulbs and fans and helping to reduce greenhouse gas emissions.



Turning off the lights and fans when no one in the rooms



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Generator & Inverters

Generator (30 KV) and Inverters (9.5 KV) are installed in our institution to play a crucial role in maintaining uninterrupted power supply, ensuring that essential operations continue smoothly during power outages or fluctuations. Generator provides a reliable source of backup power during electricity outages by converting mechanical energy into electrical energy while inverters convert direct current (DC) from batteries or solar panels into alternating current (AC) used by most electrical devices.



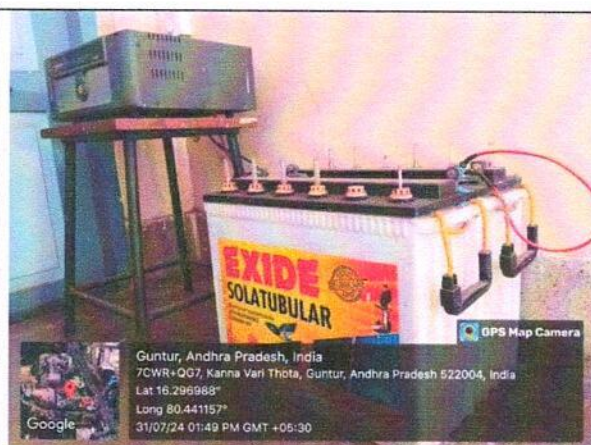
30 KV KIRLOSKAR Generator



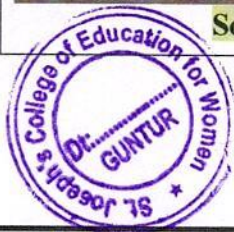
Invertor



Solar Invertor



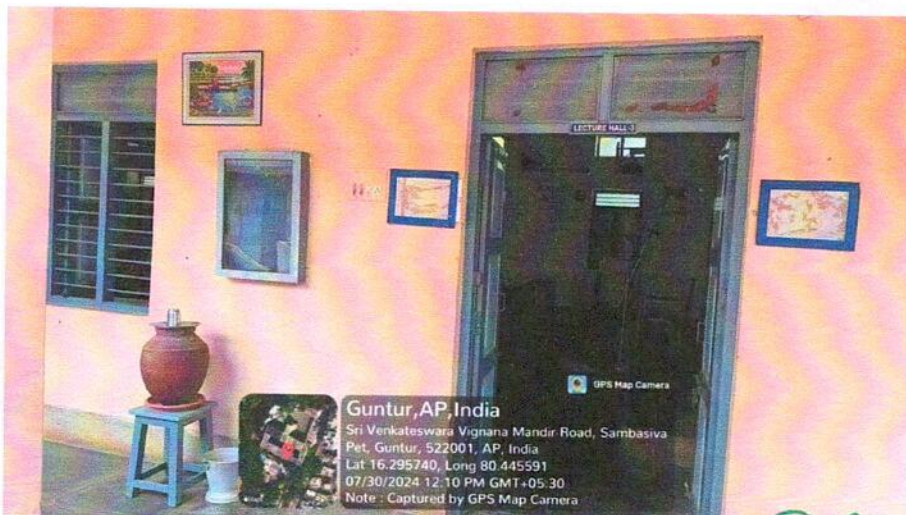
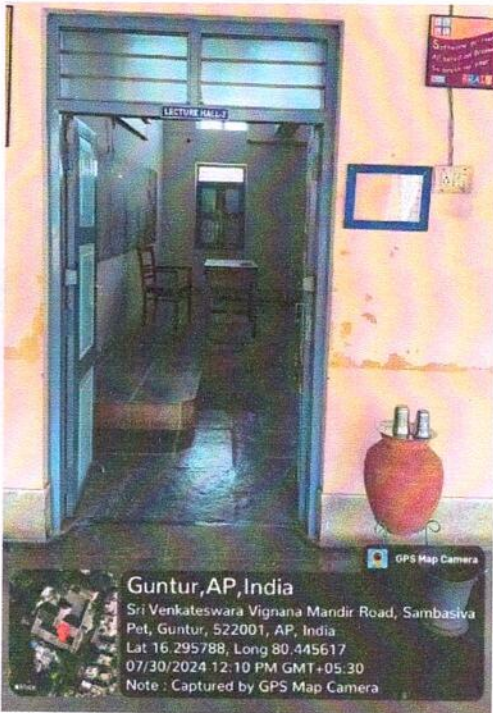
Solar Invertor



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Use of Matka /Clay Pots

The use of matka or clay pots is a traditional practice with numerous benefits that span cultural, environmental, and health aspects. These unglazed earthenware vessels are known for their natural cooling properties and have been used for centuries to store and cool water, cook food. In modern times, the use of matka is being revitalized as a sustainable and health-conscious alternative to plastic and metal containers. So we use this to provide water to the staff and students at classrooms, Corridors, office rooms, especially during summer, the natural way of cooling oneself, and the best way to minimize usage of electricity



Use of Matka/Clay pots in the classroom, Varandha

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