



ACHIEVEMENT REPORT

1. Awareness to the students and staff regarding the importance of conservation of water.

Save water posters have been inserted in the canteen and campus to impart a sense of awareness regarding the wastage of water. By prominently displaying these posters, we aim to foster a culture of responsibility and mindfulness towards our planet's precious water resources among staffs and students as indicated in figure 1. Through visual reinforcement, we hope to inspire everyone to adopt simple yet impactful water-saving habits in their daily routines.



Figure No. 1. Poster - Conservation of Water

2. Extend the rainwater harvesting facility to academic blocks one and two which helps to increase the water quality, especially to reduce the iron content.

By integrating rainwater harvesting systems into these academic blocks, we not only enhance water quality but also contribute to the sustainable management of our campus water resources. Expanding the rainwater harvesting facility, boons a proactive approach to addressing water quality concerns, particularly in reducing the iron content. By leveraging rainwater as a supplementary water source, we take significant strides towards achieving water sustainability goals while simultaneously reducing our dependence on external water supplies. Figure 2 indicates the process of



Joshi



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

water from roof tops and is directly connected and collected into water tank as displayed in figures 3 & 4.



Figure no.2 Collection of rain water from roof tops



Figure no.3 Connected to water tank



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset



Figure No.4 – Rain water stored in water tanks

3. Harvesting Sustainability: Flush with Grey, Nurture with Rain - Transforming Waste into Green Solutions.

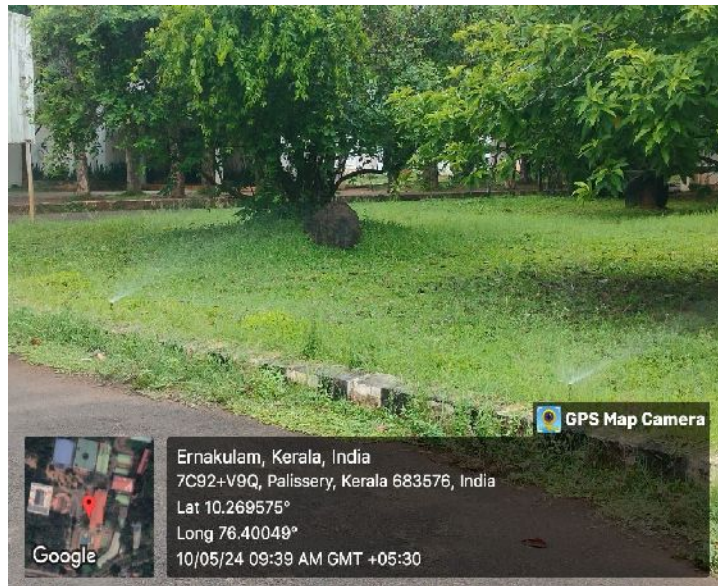


Figure No. 5 - Transforming Waste into Green Solutions



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

Grey water after water treatment process through ETP, is used for watering of plants and trees and for flushing purpose. Incorporating the use of grey water for flushing purposes and utilizing treated runoff water for watering plants and trees exemplifies our commitment to sustainable water management practices. By repurposing these resources, we not only reduce strain on our freshwater sources but also minimize waste and promote environmental stewardship within our community. This initiative not only conserves water but also embodies our dedication to creating a more resilient and eco-friendly campus environment for generations to come as pictured in figure no. 5.

4. All air conditioned rooms can be provided with doors having automatic closing mechanism and windows with tinted glass to reduce load on the air conditioning system.

To enhance energy efficiency and comfort within our facilities, doors are equipped with automatic closing mechanisms (figure no.6), curtains are installed in air-conditioned rooms (figure no.7), and air conditioning is restricted to lab or class hours only. Additionally, the air-conditioning units will be switched off at 3:00 PM daily.

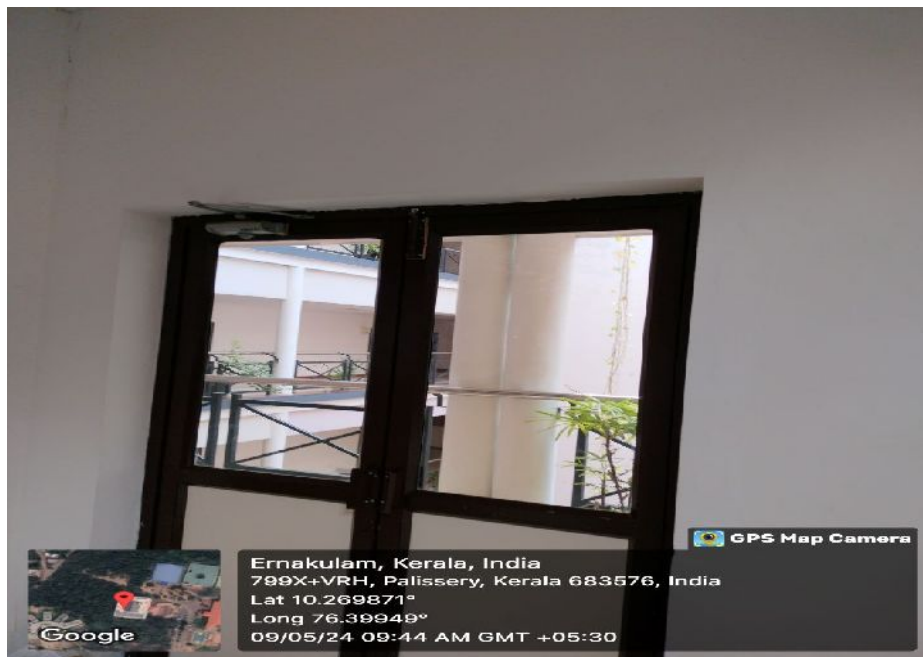


Figure No.6 - Automatic closing mechanisms



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset



Figure No. 7 - Curtains are installed in air-conditioned rooms

5. Good light and Air ventilation to classrooms without air conditioning system to avoid the use of tube lights and minimize the use of ceiling fans at high speed.

To promote sustainable and comfortable learning environments, classrooms without air conditioning systems are designed with ample natural light and ventilation. Movable windows, tinted glass, and curtains are provided to regulate heat and light effectively. In summer months, curtains are utilized to reduce heat, while tinted glass aids in minimizing heat for east and west-facing classrooms, thereby reducing reliance on tube lights and ceiling fans at high speeds as displayed in figure no. 8.



Figure No.8 - Good light and Air ventilation to classrooms with curtains



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

6. Illuminate and Innovate: Transition to Energy-Efficient LED Lighting



Figure no.9 - Transition to Energy-Efficient LED Lighting

It is recommended that fluorescent lamps in corridors and toilets may be replaced with CFL or LED light at the end of utility period of currently installed fluorescent lamps as it consumes much less energy compared to fluorescent lamps. As part of our ongoing sustainability initiatives, the replacement of fluorescent lamps with CFL or LED lights demonstrates our dedication to resource conservation and green building practices. Staff rooms have been upgraded with LED lamps, marking a significant step towards energy efficiency and improved lighting quality as in figure no.9. This transition not only reduces energy consumption but also enhances the overall work environment for staff members.

7. Enhancing Comfort, Conserving Energy: Installing Ceiling Fans in Faculty Rooms for Seasonal Air Conditioning Optimization.

In our pursuit of sustainability and comfort, we're installing ceiling fans in faculty rooms equipped solely with air conditioning systems. This strategic measure allows us to optimize energy usage by using air conditioners only during summer months. By combining the efficiency of ceiling fans with seasonal air conditioning, we aim to enhance comfort for faculty while reducing our environmental impact and energy costs. By availing the use of air conditioners in summer we optimize the use of energy conservation in campus.



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset



Figure no.10 - Installing Ceiling Fans in Faculty Rooms

8. Green Transition: Replacing CRT Monitors with LED Monitors



Figure no.11 - Replacing CRT Monitors with LED Monitors



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

The ongoing practice of replacing CRT monitors with LED monitors is a testament to our commitment to energy efficiency and sustainability as displayed in figure no.11. LED monitors not only consume significantly less power—about 20% of that required by CRT monitors with the same screen area—but also generate less heat, thereby reducing the strain on air conditioning systems. By exclusively purchasing LED monitors and eliminating the use of CRT monitors campus-wide, we not only lower energy costs but also contribute to a cooler and more environmentally friendly campus environment.

9. Empowering Energy Efficiency: Turning Off Photocopiers at Main Outlets for Power Conservation.

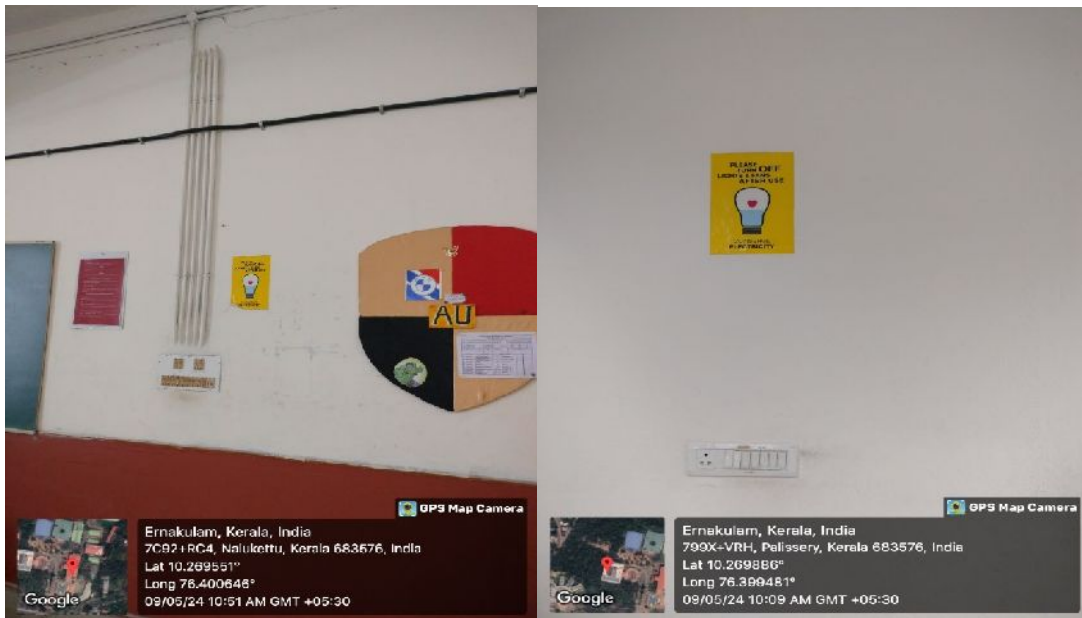


Figure no. 12 Empowering Energy Efficiency

In our pursuit of sustainability, we're implementing a proactive approach to conserve energy by switching off photocopier machines at the main outlet when not in use. This ensures that machines are not left in standby or sleep mode, which can consume unnecessary power. Additionally, energy-saving posters have been strategically placed in all classrooms and near electrical equipment to raise awareness and promote responsible energy usage. Together, these initiatives empower us to make a significant impact in reducing our carbon footprint and preserving valuable resources for future generations as in figure no.12.

10. Enhancing Waste Management: Implementing Color-Coded Dustbins for Effective Recycling



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

To streamline waste segregation at its source, we have inserted color-coded dustbins across our campus as displayed in figure no.13. These bins, distinguished by different colors, facilitate the separation of waste into various categories such as plastic, paper, food, and more. By empowering individuals to segregate their waste effectively, we promote recycling and minimize landfill waste.



Figure no.13 - Color-Coded Dustbins for Effective Recycling

11. Provide more dustbins in gardens, corridors, roadsides, and canteen and make students more aware of using it effectively.

This initiative not only fosters a culture of environmental responsibility but also contributes to a cleaner and more sustainable campus environment for all as in figure no. 14.



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset



Figure no.14 – Plastic waste segregation

12. Use covered dustbins instead of open dustbins in order to prevent breeding of infectious vectors.

Using covered dustbins instead of open ones is indeed a simple yet effective measure to prevent the breeding of infectious vectors like flies, mosquitoes, and rodents. Covered dustbins help contain waste properly, reducing the exposure of waste to these vectors. This, in turn, helps in minimizing the spread of diseases caused by these vectors, thus contributing to public health and sanitation efforts. Additionally, covered bins also prevent the scattering of waste by wind or animals, keeping the surroundings cleaner and more hygienic. So, switching to covered dustbins is a small but impactful step towards maintaining a healthier environment as in figure no. 15.



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset



Figure no.15 – Plastic waste segregation

13. Utilizing Closed Pits and Storage Rooms for Waste Collection

To enhance waste disposal practices across our campus, waste collected from various locations will be stored in closed pits or designated storage rooms. This ensures containment and prevents environmental contamination. Furthermore, paper waste and general garbage will be directed to the incinerator for proper disposal, adhering to our commitment to responsible waste management and environmental stewardship as evident in figure no. 16.



Figure no. 16 - Garbage burner at SSET, Karukutty



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: sset@scmsgroup.org Website: www.scmsgroup.org/sset

14. Awareness among students and staff to reduce wastage of food in the canteen

As part of our commitment to sustainability, we're launching a campaign to raise awareness among students and staff about the importance of reducing food waste in the canteen. Through educational initiatives and engaging activities, we aim to promote mindful consumption habits, such as taking only what can be consumed and avoiding food waste. By working together to minimize waste, we can not only save resources but also contribute to a more sustainable and environmentally conscious community as evident in figure no. 17.



Figure no. 17 – Posters in canteen

15. Promoting Paper Reuse in Offices and Faculty Rooms: Strategies for Sustainability and Cost Savings

Encourage reuse of one-side printed papers for less important documentation or for reuse as scratch pads in offices and faculty rooms. Encouraging the reuse of one-side printed papers for less important documentation or as scratch pads in offices and faculty rooms is a fantastic initiative with multiple benefits. Not only does it reduce waste and promote sustainability, but it also saves money on stationery costs. Here are some ways to promote this practice.