

1. HEI is requested to provide report on environment promotional activities conducted beyond the campus with geo tagged photographs with date and captions.

Introducing solar cooker to the surrounding school children



## Introducing Liquid Nitrogen as an agent to manage garbage



## Swatch Bharath campaign from college to the village



## Plantation in the village by NSS volunteers



**Fencing the plants 15-8-2019 on the occasion of 150 birth anniversary of Mahatma**



**World environmental day 2022**

**2. Please provide Action taken reports and achievement report as clean and Green campus initiatives**

**ACTION TAKEN REPORTS**

**CLEAN AND GREEN INITIATIVES**

**ENERGY CONSERVATION**

**ACTION TAKEN REPORT:**

▪ Installation of Energy-Efficient Lighting:

Upgraded lighting fixtures across the campus to energy-efficient LED bulbs and tubes.

Replaced outdated lighting systems with LED technology in classrooms, offices, and common areas.

Implemented a phased approach to ensure smooth transition and minimal disruption to daily activities.

▪ Solar Power Integration:

Installed solar panels to harness renewable energy for powering specific campus facilities.

Implemented solar street lights in outdoor areas to reduce reliance on conventional grid electricity.

Conducted feasibility studies and assessments to determine optimal locations for solar panel installation and maximize energy generation.

▪ Energy Conservation Awareness Campaigns:

Launched educational campaigns to raise awareness about energy conservation practices among students, faculty, and staff.

Distributed informational materials and conducted workshops to promote energy-saving behaviors and habits.

Collaborated with local energy experts to provide insights and guidance on reducing energy consumption and improving efficiency.

▪ HVAC System Optimization:

Optimized heating, ventilation, and air conditioning (HVAC) systems for improved energy efficiency.

Implemented temperature control measures and scheduling protocols to minimize energy wastage while maintaining comfort levels.

Conducted regular maintenance and performance evaluations to ensure HVAC systems operate at peak efficiency.

- **Building Automation Systems:**

Implemented building automation systems (BAS) to monitor and control energy usage in campus buildings.

Utilized BAS for real-time monitoring of energy consumption, identifying areas of inefficiency, and implementing corrective measures.

Integrated BAS with lighting, HVAC, and other building systems to streamline operations and optimize energy performance.

- **Data Monitoring and Analysis:**

Established a centralized energy monitoring system to track and analyze energy consumption patterns.

Collected and analyzed data on energy usage, demand peaks, and consumption trends to identify opportunities for improvement.

Generated regular reports and performance metrics to inform decision-making and gauge progress towards energy management goals.

- **Collaboration with Energy Service Providers:**

Partnered with energy service providers to explore opportunities for energy efficiency upgrades and retrofits.

Leveraged external expertise and resources to implement cost-effective energy-saving measures and technologies.

Engaged in ongoing dialogue and collaboration with energy stakeholders to exchange best practices and stay abreast of industry developments.

- **Continuous Improvement and Evaluation:**

Committed to ongoing evaluation and refinement of energy management strategies based on feedback and performance metrics.

Conducted periodic energy audits and assessments to identify areas for further optimization and resource allocation.

Encouraged active participation and feedback from stakeholders to foster a culture of continuous improvement in energy management practices.

### **ACHIEVEMENT REPORT:**

- **Solar Energy Utilization:**

Installed solar street lights near strategic areas within the college campus, including the stage, science block, and arts block.

Implemented solar lights in specific areas to reduce dependence on conventional electricity sources.

Ensured proper maintenance and functionality of solar lighting systems to maximize efficiency.

- LED Lighting Implementation:

Replaced traditional lighting fixtures with energy-efficient LED tube lights and bulbs.

LED tubes installed in classrooms, principal's room, office room, and staff room to minimize energy consumption.

Conducted awareness campaigns to educate staff and students about the benefits of LED lighting and energy conservation.

- Promotion of Energy Conservation:

Regularly posted instructions on energy conservation near all switchboards across the college campus.

Encouraged faculty, staff, and students to adopt energy-saving practices, such as turning off lights when not in use and unplugging electronic devices.

Organized seminars and workshops to raise awareness about the importance of energy conservation and its impact on sustainability.

- Monitoring and Evaluation:

Implemented a monitoring system to track energy usage and identify areas for improvement.

Conducted periodic audits to assess the effectiveness of alternative energy sources and energy conservation measures.

Analyzed data to make informed decisions regarding future initiatives and investments in sustainable energy solutions.

### **MANAGEMENT OF VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE**

#### **ACTION TAKEN REPORT:**

- Implementation of Two-Colored Dust Bins:

Procured and deployed two-colored dust bins across the campus to facilitate segregation of degradable and non-degradable waste.

Conducted awareness campaigns to educate students, faculty, and staff about the importance of proper waste segregation.

Established designated collection points for segregated waste to ensure effective waste management practices.

- Introduction of Liquid Nitrogen for Solid Waste Management:

Organized educational sessions and demonstrations to introduce liquid nitrogen as a novel solution for solid waste management.

Engaged MP Elementary school children to demonstrate the applications and benefits of liquid nitrogen in waste treatment.

Created awareness about the potential of liquid nitrogen in reducing waste volume and mitigating environmental impact.

- **Solid Biodegradable Waste Management:**

Implemented vermicompost beds for the decomposition of solid biodegradable waste using earthworms.

Provided training to students and staff on vermicomposting techniques and maintenance of composting beds.

Monitored the progress of vermicomposting activities and utilized the produced compost for campus landscaping and gardening purposes.

- **Establishment of Bio-Compost Pit:**

Constructed bio-compost pits to accommodate all biodegradable waste generated within the college premises.

Encouraged participation from students and staff in depositing organic waste materials into the compost pits.

Managed and maintained the bio-compost pits to facilitate the natural decomposition of organic waste into nutrient-rich compost.

- **Management of Liquid Waste:**

Installed water purifiers across the college campus to ensure access to clean and safe drinking water.

Implemented a system to channelize waste water from water purifiers into the college garden for irrigation purposes.

Opted for eco-friendly methods of waste water channelization, utilizing manual labor instead of plastic pipes to minimize environmental impact.

### **ACHIEVEMENT REPORT:**

- **Effective Waste Segregation:**

Achieved successful implementation of two-colored dust bins, resulting in improved waste segregation practices among students and staff.

Witnessed increased participation and compliance with waste segregation guidelines, leading to a reduction in mixed waste disposal.

### **Innovative Waste Management Solutions:**

Received positive feedback from MP Elementary school children regarding the demonstration of liquid nitrogen for solid waste management.

Noted heightened interest and curiosity among students about sustainable waste treatment methods, fostering a culture of environmental consciousness.

- **Vermicomposting Success:**

Celebrated the successful operation of vermicompost beds, producing high-quality compost from organic waste materials.

Utilized vermicompost in campus landscaping projects, contributing to soil health improvement and sustainable gardening practices.

- **Bio-Composting Excellence:**

Managed bio-compost pits efficiently, ensuring the proper decomposition of biodegradable waste materials into nutrient-rich compost.

Demonstrated the potential of bio-composting as a sustainable waste management solution, garnering appreciation from stakeholders.

- **Environmentally-Friendly Liquid Waste Management:**

Implemented a sustainable approach to liquid waste management by channelizing waste water from purifiers into the college garden.

Reduced reliance on plastic pipes and machinery for waste water channelization, promoting eco-friendly practices and resource conservation.

## **WATER CONSERVATION**

### **ACTION TAKEN REPORT:**

- **Rainwater Harvesting Pits:**

Constructed rainwater harvesting pits near the Arts block and Science block to capture and store rainwater.

Installed informative posters near the water harvesting pits to educate the college community about the importance of rainwater harvesting.

Ensured regular maintenance and cleaning of the pits to optimize rainwater collection efficiency.

- **Bore Well/Open Recharge System:**

Installed a bore well with an open recharge system to replenish groundwater levels and enhance water availability on campus.

Created an open chamber to hold water and installed a gravel layer to facilitate water percolation around the bore well.

Implemented measures to monitor and regulate water usage from the bore well to prevent overextraction and depletion of groundwater resources.

- **Construction of Water Tanks:**

Upgraded water storage facilities by replacing the old tank and installing a new tank on the Science building.

Conducted structural assessments and maintenance checks to ensure the integrity and functionality of the water tanks.

Implemented water conservation measures to optimize water usage and minimize wastage in the storage and distribution process.

- **Wastewater Recycling:**

Implemented wastewater recycling initiatives to utilize treated wastewater for irrigation purposes.

Diverted wastewater to trees and green areas on campus to promote vegetation growth and reduce water consumption.

Monitored the quality of recycled wastewater to ensure compliance with environmental regulations and safety standards.

#### **ACHIEVEMENT REPORT:**

- **Successful Rainwater Harvesting:**

Achieved successful implementation of rainwater harvesting pits near the Arts block and Science block, resulting in increased water availability during the rainy season.

Noted significant improvements in groundwater recharge and water conservation efforts due to effective rainwater harvesting practices.

- **Enhanced Groundwater Recharge:**

Implemented a bore well with an open recharge system, contributing to the replenishment of groundwater resources on campus.

Observed improvements in groundwater levels and water quality as a result of the open recharge system, benefiting the local ecosystem.

- **Improved Water Storage and Distribution:**

Upgraded water storage facilities with the installation of a new tank on the Science building, ensuring sufficient water supply for campus operations.

Experienced enhanced water distribution efficiency and reliability, leading to improved accessibility and convenience for students, faculty, and staff.

- **Sustainable Wastewater Management:**

Successfully implemented wastewater recycling initiatives, reducing water consumption and promoting sustainable irrigation practices.

Utilized recycled wastewater to nourish trees and green areas, contributing to campus beautification and environmental sustainability.

#### **GREEN CAMPUS INITIATIVE**

#### **ACTION TAKEN REPORT:**

- **Cleanliness Drives:**

Organized regular cleanliness drives involving students, faculty, and staff to maintain a clean and hygienic campus environment.

Conducted thorough cleaning of common areas, including classrooms, corridors, and outdoor spaces, to ensure a litter-free campus.

- **Poster Presentations:**

Facilitated poster presentations on the importance of environmental conservation and waste management.

Engaged students in creating visually appealing posters to raise awareness about the significance of keeping the campus clean and green.

- **Eco-Art Competitions:**

Hosted eco-art competitions such as coffee painting and vegetable painting to promote creativity and sustainability among students.

Showcased artworks depicting environmental themes and encouraged participants to use eco-friendly materials in their creations.

- **Plantation Programs:**

Implemented plantation programs in collaboration with NSS volunteers and local communities to enhance greenery on campus.

Organized tree planting events and distributed saplings to students, faculty, and neighboring residents to encourage active participation in greening efforts.

- **Organic Kitchen Gardening:**

Initiated organic kitchen gardening projects to cultivate herbs, vegetables, and fruits within the college premises.

Educated students about sustainable farming practices and the benefits of consuming locally grown, chemical-free produce.

- **Plastic Management Activities:**

Implemented measures to reduce plastic usage and promote eco-friendly alternatives on campus.

Conducted campaigns to raise awareness about the adverse effects of plastic pollution and encouraged the use of reusable bags and containers.

- **Wildlife Conservation Efforts:**

Undertook initiatives to support wildlife conservation, including providing feeding stations for birds and creating habitats for local fauna.

Educated students about the importance of biodiversity and the role of ecosystems in maintaining ecological balance.

- **Pedestrian-Friendly Pathways:**

Improved pedestrian infrastructure by creating designated walkways and pathways to promote walking and cycling on campus.

Installed signage and markings to enhance safety and accessibility for pedestrians and cyclists.

- **No Vehicle Day Observance:**

Designated every 4th Saturday as "No Vehicle Day" to promote sustainable transportation practices and reduce carbon emissions.

Encouraged students and staff to commute by public transport, bicycle, or on foot on designated days.

### **ACHIEVEMENT REPORT:**

- **Successful Clean and Green Campaign:**

The "Warriors Against Garbage" initiative has made remarkable strides in maintaining a clean and green campus environment.

Conducted numerous cleanup drives resulting in a visibly cleaner campus and heightened awareness about waste management among students and staff.

- **Impactful Poster Presentation Campaign:**

The poster presentation events have been highly effective in conveying messages of environmental conservation and sustainability.

Students' creative and informative posters have garnered attention and sparked discussions, contributing to a culture of environmental consciousness on campus.

- **Inspiring Eco Art Competitions:**

The eco art competitions, including coffee painting and vegetable painting contests, have showcased students' creativity and commitment to environmental themes.

Participants have produced stunning artworks that not only beautify the campus but also convey powerful messages about the importance of protecting the environment.

- **Tri-Color Handcraft and Vegetable Carving Competitions:**

The tri-color handcraft and vegetable carving competitions have been immensely successful in engaging students in sustainable practices while celebrating patriotism.

Students' handcrafts and vegetable carvings have received admiration for their artistic merit and alignment with environmental values.

- **Promoting Eco-Friendly Celebrations:**

The initiative to promote plantable seeded Raksha Bandhan has received positive feedback for encouraging eco-friendly celebrations and fostering a deeper connection with nature.

Distribution of saplings along with rakhi bands has been well-received, contributing to a greener and more sustainable festive season.

- **Encouraging Plant Distribution and Organic Gardening:**

The distribution of plants and saplings has encouraged students and staff to actively participate in greening initiatives both on campus and in their communities.

Organic kitchen gardening workshops have empowered individuals to grow their own food using sustainable practices, promoting self-sufficiency and environmental stewardship.

- **Successful Plantation Programs and Landscaping Efforts:**

Collaborative plantation programs with NSS volunteers have resulted in the planting of numerous trees across the campus and surrounding villages.

Landscaping projects have transformed the campus environment, creating aesthetically pleasing green spaces for relaxation and recreation.

- **Effective Plastic Management and No Vehicle Day Activities:**

Initiatives such as hand-made no plastic badges and plastic-free day activities have raised awareness about the harmful effects of plastic pollution and promoted sustainable alternatives.

"No Vehicle Day" events have encouraged sustainable transportation practices, reducing carbon emissions and promoting a healthier environment.

- **Promoting Biodiversity and Sustainable Infrastructure:**

Installation of bird feeders and pedestrian-friendly pathways has contributed to the promotion of biodiversity and the creation of a more sustainable campus environment.

Improvements in infrastructure have made the campus more accessible and environmentally friendly, fostering a sense of community and well-being.

Through these achievements, S.A.S. Government Degree College has demonstrated its commitment to sustainability and environmental stewardship, inspiring students and staff to become active agents of positive change in their communities.

**3. Please provide Reports of all audits**

**4. Please provide any other relevant proof for the selected options**