



Dr. C.S.N. DEGREE & P.G. COLLEGE

BHIMAVARAM - 534 203, W.G.Dt., A.P., INDIA

Recognised by APSCHE, Approved by AICTE, AISCHE Code- C-23946

Affiliated to Adikavi Nannaya University, Rajamahendravaram

7.1.2

ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

- 1. Use LED bulbs/ Power efficient Equipment**
- 2. Sensor based Energy Conservation**



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Alternate sources of energy and energy conservation measures

Report

This report outlines the proactive measures our institution has adopted in the matrix of alternative energy sources and energy conservation measures, in alignment with the NAAC's sustainability directives. We have systematically replaced conventional lighting with LED bulbs across the campus, resulting in a significant reduction in energy consumption. The installation of power-efficient equipment has further augmented our energy-saving efforts.

Moreover, we have integrated sensor-based systems to optimize energy usage. These systems ensure that lights and equipment are operational only when needed, thereby minimizing wastage. Our approach not only aligns with environmental sustainability goals but also demonstrates our commitment to cost-effective campus management.



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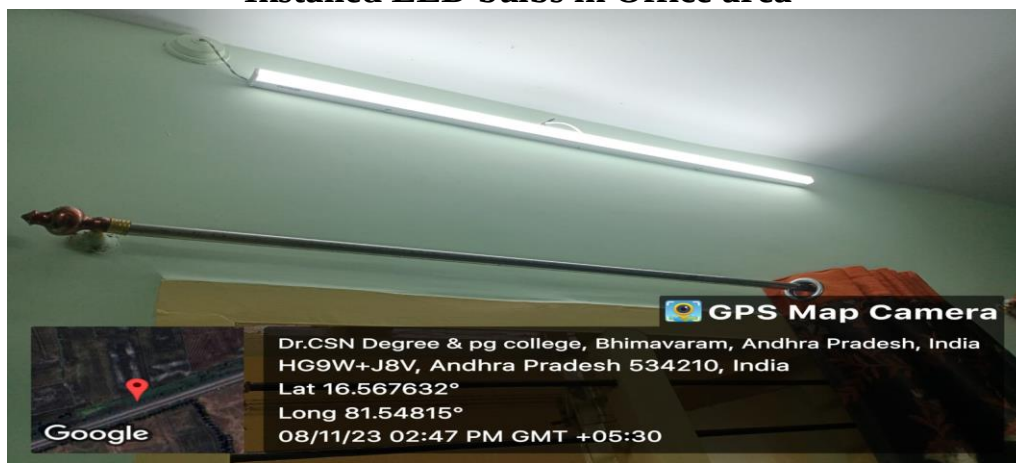
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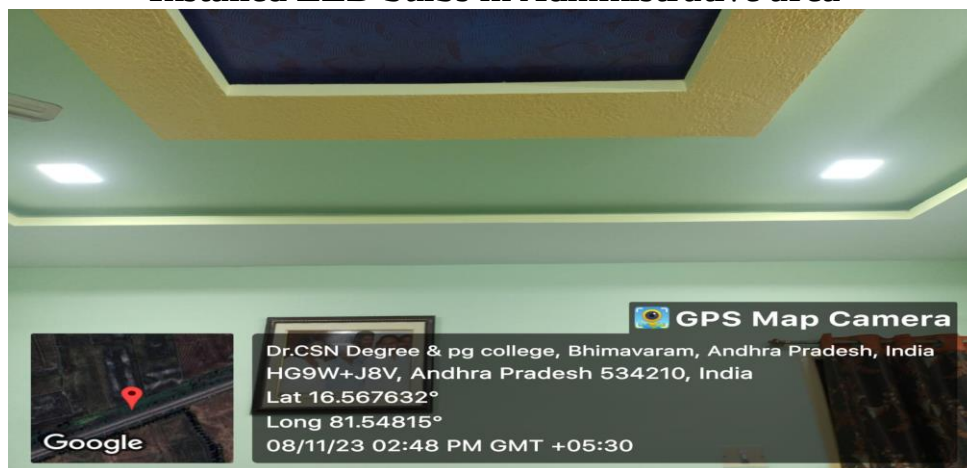
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As a Green initiative LED bulbs are installed in the campus to save electrical energy

Installed LED bulbs in Office area



Installed LED bulbs in Administrative area





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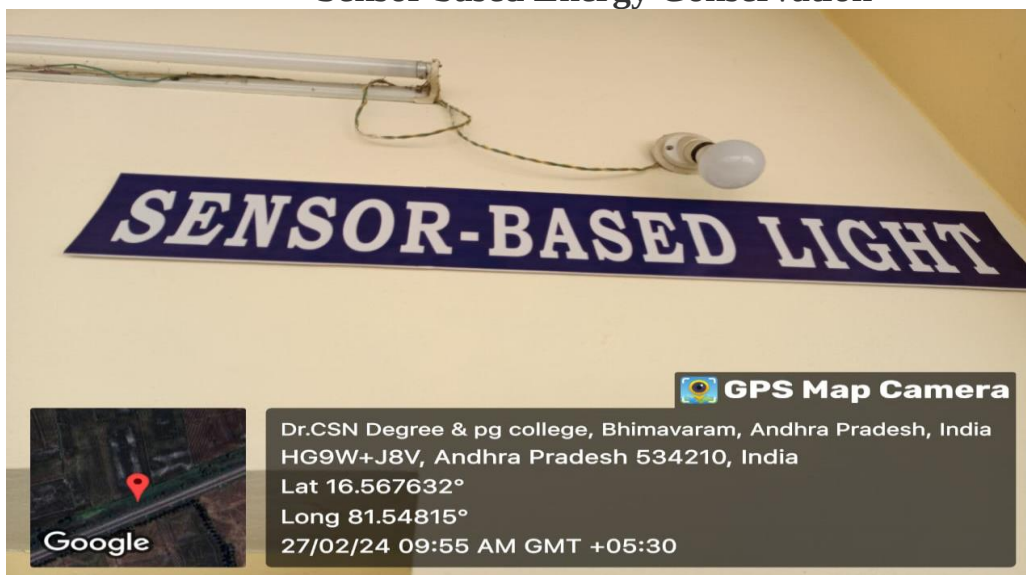
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It is real time based timer which is used to control the college street lights. The implementation of this automation circuit has discarded in the need for the separate man power for the street light operation at college campus with ON/OFF timings precisely set depends upon climatic seasons and automatic circuit is found to be operating satisfactory unnecessarily

Sensor based Energy Conservation





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Management of the various types of degradable and non-degradable waste

- 1. Twin Dust Bins for collecting Wet waste and Dry Waste**
- 2. Vermicomposting Unit**



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Management of the various types of degradable and non-degradable waste

Report

Our institution has established a dual-bin system for the segregation of dry and wet waste, ensuring that the waste collection process is streamlined and environmentally responsible. The twin dustbins are strategically placed across the campus, including the hostel areas, to encourage the separation of waste at the source.

In addition to waste segregation, we have implemented a vermicomposting unit that utilizes vegetable waste collected from the hostel. This practice not only promotes the recycling of organic waste but also contributes to the production of nutrient-rich compost, which is used for landscaping and gardening within the campus premises. The maintenance of the vermicomposting unit is carried out with diligence, ensuring optimal conditions for the composting process and adhering to the best practices in waste management.



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Solid waste generated in the form of garbage through regular maintenance and food waste from hostels is collected and dumped in a separate large pit and converted as compost and used as manure for lawn maintained in campus and non-degradable waste is picked up by local Municipal Corporation.

Installation of Dual bins on college premises



Installation of Dual bins on college premises





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Established Vermicomposting Unit on college premises





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E-waste management

Computers department of the College collects all E-Waste and unused electronic equipment for repairing and re-using and unusable electronic equipment are sent for recycling/disposal as per standard protocols.

E-waste management at our computer department





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Water conservation

1. Rain Water Harvesting
2. Bore well/ open well
3. RO Plant



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Water conservations Report

This report is presented as a comprehensive account of the water conservation initiatives undertaken by our institution, focusing on rainwater harvesting, maintenance of bore wells and open wells, and the operation of the Reverse Osmosis (RO) water plant. Our commitment to sustainable practices is aligned with the NAAC's mandate for environmental stewardship as part of the accreditation process.

1. Rainwater Harvesting: Our campus has implemented an extensive rainwater harvesting system designed to augment our water supply and reduce dependence on external sources. The system includes catchment areas, filtration units, and storage tanks, ensuring that the harvested water meets the quality standards for non-potable uses.

2. Bore Well and Open Well Maintenance: Regular maintenance schedules are in place for our bore wells and open wells, which are vital components of our groundwater management strategy. These measures prevent contamination, ensure the longevity of the wells, and enhance the recharge rate of our aquifers.

3. RO Water Plant: The RO plant on campus plays a crucial role in providing safe, potable water. It operates efficiently, with regular monitoring to ensure the quality of the treated water. Additionally, we have implemented waste minimization strategies to manage the reject water from the RO process, further contributing to our conservation efforts.



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Rain water harvesting is the accumulation and storage of rain water for reuse purpose. Rain water harvesting pits are located at each block in our college. On the whole the rain water harvesting helped and accounted largely for raise of underground water level. As a result of this effort the institute ensures with sustainable water supply

Rain water collecting from the pipe lines



Rain water stored in Tanks





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Rain water stored in open ponds



The rain water stored in open ponds





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Bore well in our college premises



RO water plant in our college premises





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Green campus initiatives

- 1. Use of Bicycles/Battery powered Vehicles**
- 2. Ban of Use Plastics**
- 3. Landscaping**



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Green campus initiatives Report

We are pleased to present this report detailing the recent environmental initiatives undertaken by our institution to foster a sustainable and pollution-free campus environment. Recognizing the urgent need for environmental stewardship, we have introduced a comprehensive bicycle program, encouraging the use of bicycles as a primary mode of transportation within the campus. This initiative aligns with our commitment to reducing carbon emissions and promoting health and wellness among our students and staff.

In addition to this, we have successfully implemented a campus-wide ban on the use of plastic materials. This policy has significantly reduced our plastic waste and contributed to a cleaner, greener campus. We have also embarked on an extensive landscaping project, which includes the planting of native flora, creating green spaces that not only enhance the aesthetic appeal of our campus but also support local biodiversity.

These steps towards sustainability have been met with overwhelming support from the campus community, and we believe they set a precedent for environmental consciousness in educational institutions. We are committed to continuing these efforts and exploring further opportunities to integrate eco-friendly practices into our campus life.



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Restricted entry of auto mobiles

To prevent huge vehicles from accidentally entering the campus, our institution established a restriction on automobile admission. Our college has a group of buses to transport many students from different places .The initiative helps in reducing pollution and consumption of petrol.

Security guard monitoring the entry of Auto mobiles





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Use of bicycles

Some of the staff and students are utilizing bicycles those who are near to college for fuel reduction.

Bicycle Parking Area at our college Premises





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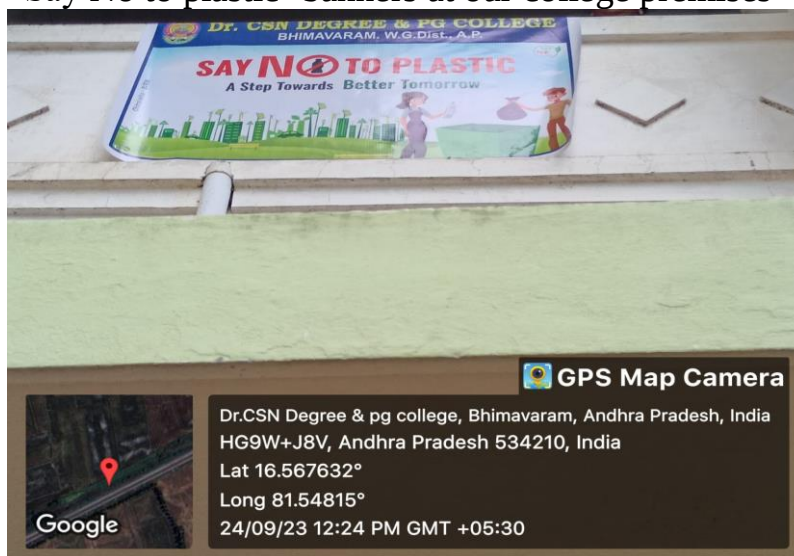
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Ban of use plastic

The main objective is to eliminate plastic in the campus. Dr CSN Degree & PG college energizes students and staff not to utilize plastic bags and plastic containers.

‘Say No to plastic’ banners at our college premises



‘Say No to Plastic’ Banner at college main gate





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Landscaping with trees and plants

The students are encouraged to maintain eco-friendly environment and participate in various programmes conducted by NSS unit.

Green Landscaping surrounded by our college



Green landscaping at our open area





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Flowering plant at our college open area



Maintenance Edge plants at our college





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Disabled-friendly, barrier free environment

1. Built Ramps for Disabled to easy access to class rooms
2. Disabled friendly Washrooms



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Disabled-friendly, barrier free environment Report

Our Institute is committed to creating a disabled-friendly, barrier-free environment, it is proposed that ramps be constructed to facilitate easy access to classrooms for individuals with disabilities. Additionally, the development of disabled-friendly washrooms is recommended to further enhance accessibility within the institution.

Adhering to the Government of India's standards for barrier-free built environments, the proposed ramps and washrooms will be designed to meet the necessary specifications for safety, convenience, and usability. This will ensure that the institution not only meets the legal requirements but also demonstrates a commitment to social responsibility and the well-being of all its stakeholders. The implementation of these facilities will be a step towards fulfilling the institution's obligations under the Persons with Disabilities Act and will contribute to the overall goal of an inclusive educational environment.



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Disabled-friendly wash rooms, wheel chair, Ramps

College provides disabled friendly facilities like wheel chair and construction of ramps in the campus

Built Ramps for Disabled to easy access to class rooms



Built Ramps for Disabled to easy access to Office





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Disabled friendly Washrooms

