



GOVERNMENT DEGREE COLLEGE

AVANIGADDA

(Affiliated to Krishna University, Machilipatnam)

7.1.3 Institutional Environment and Energy Initiatives

ACTION TAKEN REPORT

AND

ACHIEVEMENT REPORT

2021-22



Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121.



GOVT. DEGREE COLLEGE

AVANIGADDA-521121. KRISHNA DT. (A.P).

NAAC – B



gdcjkc.avanigadda@gmail.com
www.gdcavanigadda.ac.in

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☎ 08671-272261
📞 94-94-299418

Dr. D. Uma Rani,
M.A., Ph.D.
PRINCIPAL




Govt. Degree College, Avanigadda is ever conscious about being a good steward of the environment along with pursuing its higher educational goals. The institution tries to engrave the green movement into its regular pattern. Hence, the institution has included Green, Energy and Environment Audit in its policy documents ensuring its focus on applying it in the course of action.

With a motive to ensure green movement, the institution conducts a green and energy audit once in every year. The department of Aquaculture, Physics and Chemistry are in charge of the audit in which the faculty and the students form the committee who take active strides in strictly analysing the green practices of the institution. The report along with the recommendations and proposals for corrections and further improvements are submitted by the auditing committee to the Head of the Institution which is communicated to the staff and students and displayed in the college website.

The institution has conducted an audit in 2021-22 in collaboration with Vijayawada Thermal Power Station (VTPS), Kondapalli also called as Dr. TataRao Thermal Power Station. The personnel of ADE cadre from the external agency visited and stayed in the campus to study the campus ecosystem and to analyse the practices of the institution in terms its utilization of energy and water resources and its green practices. The detailed report submitted by the external agency was studied by the institutional authorities and corrective measures are taken and appropriate interventions are done to improve the sustainable practices of the institution.




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**ACTION TAKEN
REPORT**

2021-2022

Green and Energy Audit is conducted by Sri M. Uma Vijay Chand, ADE, Vijayawada Thermal Power Station(VTPS), Kondapalli in the academic year 2021-2022. As per the report of the Green and Energy Audit, the following actions are taken:

- ❖ **Planning to tie up with e waste collection centres nearby for sending the waste which cannot be managed by us.**
- ❖ **CFLs are replaced by LED lamps in phases**
- ❖ **Strict instructions are given to faculty, staff and students to unplug and turn off electrical appliances when not in use or after use.**
- ❖ **Regular check-up on the gadgets are done to improve their efficiency**
- ❖ **The college takes measures to use efficient electrical appliances to reduce the power consumption.**
- ❖ **Time to time maintenance works of the electrical appliances like air conditioners etc., are taken up for optimum usage of power.**
- ❖ **Keep vigil at electricity consumption and minimize it.**
- ❖ **Energy audits are made mandatory.**
- ❖ **Lights for illumination in the classrooms are avoided when there is sufficient day light.**
- ❖ **Measures are taken to re-strengthen the existing water management practices**
- ❖ **Waste management spearheaded by the Science departments for the proper monitoring of waste management activities in the campus**
- ❖ **Initiatives are taken effectively to configure e-waste management. E-waste collection drives are conducted and disposed periodically**




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ACHIEVEMENT REPORT

2021-2022

Major Achievements as a result of Sensitization Programmes

- ❖ **It empowered the organization to frame a better environmental protection policy**
- ❖ **Environment Consciousness awakened among staff and students**
- ❖ **Green projects and eco-friendly initiatives are undertaken by students with enthusiasm**
- ❖ **Green protocol is strictly maintained by dumping wastes in the bins, regular plantation drives and watering etc**
- ❖ **Facilitated more efficient resource management and becomes basis for improved sustainability – RO plant waste water diverted to trees, Regular maintenance and plumbing works to avoid water leakage etc.**
- ❖ **Brought out health consciousness among the stakeholders**
- ❖ **Recognized the cost saving methods through waste minimizing & enhancing the alertness for environmental guidelines and duties**
- ❖ **Imparted environmental education through systematic environmental management approach and improving environmental standards**
- ❖ **Created a green campus that enhances college profile**
- ❖ **Enhanced biodiversity resources – prepared bird feeders.**
- ❖ **Reduction in carbon dioxide emission making the campus climate friendly.**
- ❖ **Created a good image to the institution through its clean and green campus.**

This audit is helpful to the college for the identifying, evaluating and managing environmental risks and improvement in waste management, energy, water management etc. It has spawn new activities and innovative practices. College has taken good initiatives for environment protection and conservation in college campus area after the audit that it has undergone.

Major Practices based on Environment, Energy and Waste Audit:

Biodiversity :

- The major work that is taken up by the Eco club of the College is the protecting of Olive Ridley turtles that come and hatch in nearby beach, that is Palakaya Tippa, located 40 km. away from the college. The students gather baby turtles that come out of the eggs and leave them near the sea so that they can reach the water without any harm.
- Various native plants are planted inside the campus.
- The Eco club members and NCC and NSS volunteers of the college planted over 40 trees Contributing to the reforestation efforts and enhancing the areas biodiversity and greenery.
- Various competitions like poster presentation, essay writing and elocution are organized for the students to familiarize with the flora and fauna of the campus.

Energy Conservation

- Purchased energy-saving appliances to conserve energy in the science departments. Purchase of Led bulbs.
- Annual maintenance of the systems is done to improve their efficiency.
- CFL lamps and filament lamps are replaced with LED bulbs
- Awareness is given to staff and students to unplug and turn off electrical appliances when not in use or after use.

Water :

- For re-strengthening the existing water management practices, awareness programmes are given periodically.

- NCC cadets & NSS volunteers enthusiastically participate in Cleaning of beaches nearby and participate in Puneet Sagar Abhiyan campaign on water conservation.
- High quality pipes for collecting waste water from the labs are installed

Waste :

- Organic manure produced from vermicompost is used for farming and horticulture
- Sanitary napkin incinerators are installed in the campus.
- College is paying much attention to the effective implementation of green protocols in the campus.
- Color-coded waste bins are kept for the waste segregation
- Electronic wastes and hazardous wastes are collected by the Department of Physics
- In order to popularize Waste Management themes, days and years of importance are celebrated and various campaigns are undertaken by the College.

Constitution of a campus green policy:

- ★ The green policy is revitalized and strengthened by giving stress to emission reduction and the adoption of green substitutes.




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GREEN AUDIT

Action Taken Report of Green Audit 2019-20

Findings and Recommendations:

- Establish an energy management committee to oversee energy-saving measures and conduct regular audits.
- Introduce water-saving campaigns, install water-efficient fixtures, and explore rainwater harvesting.
- Implement waste segregation bins across the campus and establish a recycling program.
- Promote sustainable transportation options and develop a campus transportation plan.
- Adopt a sustainable procurement policy and support local eco-friendly vendors.
- Incorporate green design principles in future construction projects.
- Integrate sustainability topics into the curriculum and organize awareness events.
- Develop a biodiversity enhancement plan with native plantings

Actions Taken:

Energy Efficiency Measures:

- Installed energy-efficient LED lighting

Waste Management and Recycling:

- Established a segregated waste collection system with dedicated bins for paper, plastic, glass, and organic waste.

Water Conservation:

- Implemented rainwater harvesting system for landscape irrigation. The waste water from RO plant is diverted for watering the trees.
- Regular maintenance of water faucets to ensure no leakage of water

Ongoing Initiatives:

Biodiversity Enhancement:

- to develop a biodiversity enhancement plan including plantation programmes



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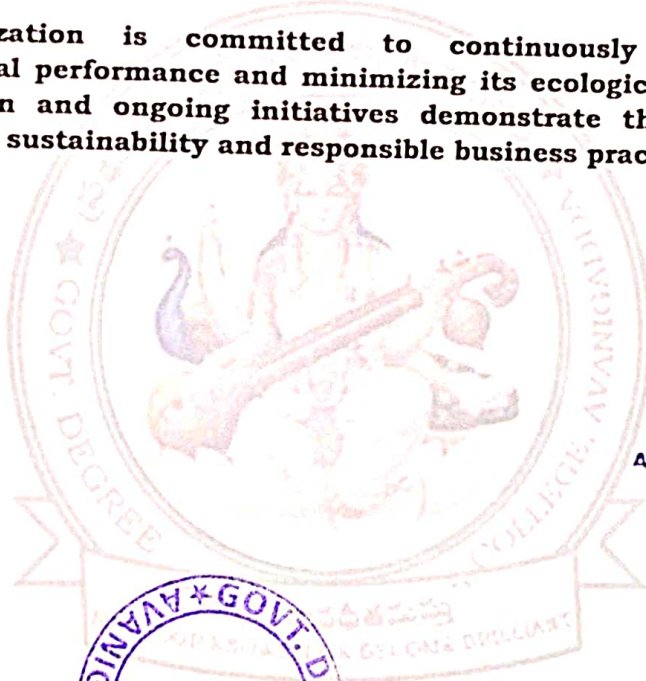
- Engaged students in Campus cleaning activities and encouraged the students to adopt plastic free practices.

Curricular involvement:

Environmental awareness is incorporated in the curriculum as prescribed by the affiliated university.

Conclusion:

The organization is committed to continuously improving its environmental performance and minimizing its ecological footprint. The actions taken and ongoing initiatives demonstrate the organization's dedication to sustainability and responsible business practices.



Rani
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121.



D. R. T.
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121.



GOVT. DEGREE COLLEGE

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M.A., Ph.D.
PRINCIPAL

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GREEN AUDIT

Action Taken Report of Green Audit 2018-19

Challenges and Recommendations:

While Government Degree College, Avanigadda has made commendable progress in its sustainability endeavors, there are areas that warrant further attention. These include:

Plastic Reduction: Implement strategies to reduce single-use plastic on campus, including the introduction of reusable alternatives and encouraging students and staff to adopt plastic-free practices.

Community Engagement: Strengthen engagement with the local community by organizing sustainability events, collaborating with local environmental groups, and initiating community clean-up drives.

Actions Taken:

Waste Management and Recycling:

Established a segregated waste collection system with dedicated bins for paper, plastic, glass, and organic waste. Vermicomposting was initiated.

Water Conservation:

Implemented rainwater harvesting system for landscape.

Green initiatives:

Engaged students in Campus cleaning activities and encouraged the students to adopt plastic free practices.

Curricular involvement:

Environmental awareness is incorporated in the curriculum as prescribed by the affiliated university.

Conclusion:

Government Degree College, Avanigadda acknowledges the importance of addressing the findings from the green audit to ensure a more sustainable future. Significant progress has been made in areas such as energy efficiency, waste management, and emissions control. These reflect the commitment to continuous improvement in environmental performance.



Rani
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 52112

D. Uma Rani
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121.



GOVT. DEGREE COLLEGE

AVANIGADDA-521121. KRISHNA DT. (A.P).

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📞 94-94-299418

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PRINCIPAL

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GREEN AUDIT

Action Taken Report of Green Audit 2017-18

Findings and Recommendations:

- Develop an energy-efficient lighting and HVAC upgrade plan.
- Install low-flow fixtures and rainwater harvesting systems.
- Expand waste segregation and recycling programs.
- Establish a sustainable transportation promotion campaign.
- Implement a sustainable procurement policy.
- Conduct energy audits and retrofit buildings.
- Launch environmental education workshops and awareness campaigns.
- Create biodiversity-rich areas and enhance green spaces.

Actions Taken:

Energy Efficiency Measures:

Installed energy-efficient LED lighting reducing energy consumption by an estimated 20%.

Waste Management and Recycling:

Established a segregated waste collection system with dedicated bins for paper, plastic, glass, and organic waste.

Water Conservation:

Implemented rainwater harvesting system for landscape.

Green initiatives:

Engaged students in Campus cleaning activities

Conclusion:

The organization is committed to continuously improving its environmental performance and minimizing its ecological footprint. The actions taken and ongoing initiatives demonstrate the organization's dedication to sustainability and responsible green practices.



Pani
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121.

D. R.
Principal
GOVT. DEGREE COLLEGE
AVANIGADDA, Krishna Dt. 521121