



RCMAS

RAJAGIRI COLLEGE OF MANAGEMENT &
APPLIED SCIENCES
(Affiliated to Mahatma Gandhi University, Kottayam)

Rajagiri Valley P.O., Kakkanad
Cochin - 682 039, Kerala
E office@rajagiricollege.edu.in
www.rajagiricollege.edu.in

Energy Audit Action Taken Report 2023-24

This Action Taken Report outlines the specific measures implemented by Rajagiri College in response to the findings and recommendations of the Energy Audit conducted for the academic year 2023-24. The report details the steps taken to address identified energy inefficiencies, reduce consumption and optimize energy utilization across the campus.

Key Findings:

- The premises of the campus are lit by Solar lights.
- Electric charging points are installed in the campus.
- Separate Cycle parking area for promoting sustainable mobility.
- Has a solid Waste management programme.
- Has actively functioning social and environmental clubs.
- Use of renewable energy has to be encouraged.
- The staff and students need to be made more aware of the importance of energy saving and management.

Action Taken:

- Discussions to convert RCMAS into a 100 percent LED Campus is on.
- The plan to install an Energy Meter near the Charging Station at the parking lot is initiated.
- The establishment of an Integrated Energy Management System is in plan.
- Incorporation of more courses to promote sustainability into UG and PG programmes is encouraged.
- Proper documentation of the shared facilities of the college will be done.

SURESH BABU B V
Accredited Energy Auditor
Bureau of Energy Efficiency
Government of India



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Environment Audit Action Taken Report 2023-24

This Action Taken Report outlines the specific measures implemented by the College in response to the findings of the Environmental Audit conducted for the academic year 2023-24. The report details the steps taken to address the identified areas of improvement, particularly in waste management, rainwater harvesting and building maintenance.

Key Findings:

The campus demonstrates a commendable level of environmental upkeep. While no major environmental issues were identified, certain areas require immediate attention, particularly in relation to waste minimization and energy monitoring.

Action Taken:

- Plan for Zero Waste Campus Project is initiated.
- The establishment of a monthly inventory of hazardous waste will be done.
- The optimization of rainwater harvesting through recharge will be considered.
- A Water Meter will be installed for monitoring of water consumption per capita.

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Green Audit Action Taken Report 2023-24

A green audit was conducted to assess the environmental impact of the campus and identify areas for improvement. This Action Taken Report outlines the specific actions/plans undertaken by the College in response to the findings and recommendations of the green audit.

Key Findings:

The campus has successfully achieved **carbon negativity** through the strategic implementation of a solar power plant and a series of energy efficiency initiatives. While the current carbon footprint is negative, opportunities for further enhancing energy efficiency and conservation exist. By capitalizing on these areas, the campus can solidify its carbon-negative status and ensure long-term sustainability.

The facility operates 236 conventional ceiling fans for at least 8 hours daily, many of which are outdated. Six T8 (40W) lamps were identified with an average utilization rate of 30%.

Action Taken:

- An upgrade to energy-efficient five-star rated fans to reduce energy consumption and improve indoor air quality by replacing existing ceiling fans is initiated.
- Gradual replacement of the existing six T8 (40W) lamps with 18W LED tubes in plan. A 55% reduction in energy consumption after the complete replacement is anticipated.
- Action initiated to enhance the campus's carbon sequestration capacity and increase green cover by planting trees with high carbon sequestration index.
- It is decided to work towards a water neutral campus.
- Discussions to promote environmental consciousness and safety awareness among the campus community through active participation in structured events like Earth-day, Environment-day, Safety weeks are finalized.

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Green Audit Action Taken Report: 2020-2021

This report summarizes the actions taken in response to the green audit conducted for the academic year 2020-2021. The audit identified opportunities to reduce the carbon footprint of the campus and achieve carbon neutrality or even carbon negativity.

Key Findings:

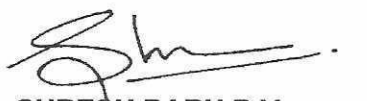
The per-student carbon dioxide emission for the campus was -105.22 kg CO₂e per year in 2020-2021, indicating a commendable effort towards reducing emissions.

Strategic emission reduction plans are formulated with the goal of achieving carbon neutrality or negativity. The ongoing efforts to minimize unnecessary waste production are appreciated. Nevertheless, further implementations are required for energy saving and waste management.

Action Taken:

- Resource optimization initiatives are planned for all waste streams to achieve a projected 50% reduction in total waste produced.
- A plan is in place to replace existing inefficient lighting fixtures with energy-saving LED lights.
- 55 T8 (40W) lamps will be replaced with 18W LED tubes.
- Additionally, 246 inefficient ceiling fans will be upgraded to energy-efficient fans.
- The installation of Solar panels as an opportunity for renewable energy generation for reducing dependency on electricity is initiated.
- The implementation of an increased number of green campus initiatives and beyond the campus practices is in plan.
- QR Coding of trees as a means for documenting campus flora is decided on.

Restricted use of plastic and promotion of eco-friendly alternatives will be encouraged more than before.


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