RAJAGIRI VISWAJYOTHI
COLLEGE OF ARTS AND APPLIED SCIENCES
VENGOOR , PERUMBAVOOR KERALA- 683546
An ISO 9001 : 2015 Certified Institution
Affiliated to Mahatma Gandhi University, Kottayam | Approved by AICTE

CRITERION 7
INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 Institutional Values and Social Responsibilities

2019-2024 Submitted to NAAC

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7.1.2 Reports on Waste Management Facilities

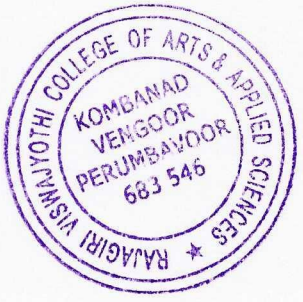
Waste Management Facilities

Implementing an effective waste management system at Rajagiri Viswajyothi College of Arts & Applied Sciences in Vengoor, Perumbavoor, is crucial for addressing environmental concerns, promoting sustainability, and enhancing the well-being of our college community. With an effective waste management system already in place, the college is well-positioned to significantly reduce its environmental footprint by minimizing pollution, conserving resources, and preventing the release of harmful substances into the air, soil, and waterways.

1. Incinerator

An **Incinerator** is a facility designed to burn waste materials at extremely high temperatures, reducing them to ash. It operates by subjecting waste to controlled flame combustion, typically reaching temperatures of around 800-1000 degrees Celsius or higher. This process effectively destroys organic substances and significantly reduces the volume of waste. Three incinerators of this type were installed at the college in 2019. They are primarily used for the disposal of sanitary napkins.

Name of the Facility	Number	Year of Installation
Incinerator	**3**	**2019**



Incinerators Inside the Girls' Washrooms

2. Sanitary Napkin Dispenser Machines

At Rajagiri Viswajyothi College of Arts & Applied Sciences, Vengoor, **Sanitary Napkin Dispenser Machines** have been installed in the women's toilet areas. This initiative is part of our commitment to ensuring the comfort and hygiene of our female students and staff. The dispenser machines provide easy access to sanitary products, enhancing personal convenience and promoting menstrual health. This installation reflects our ongoing efforts to maintain a supportive and well-equipped campus environment.

Name of the Facility	Number	Year of Installation
Sanitary Napkin Dispenser Machines	**2**	**2020**

Sanitary Napkin Dispenser Machines Installed in the Girls' Toilet Area

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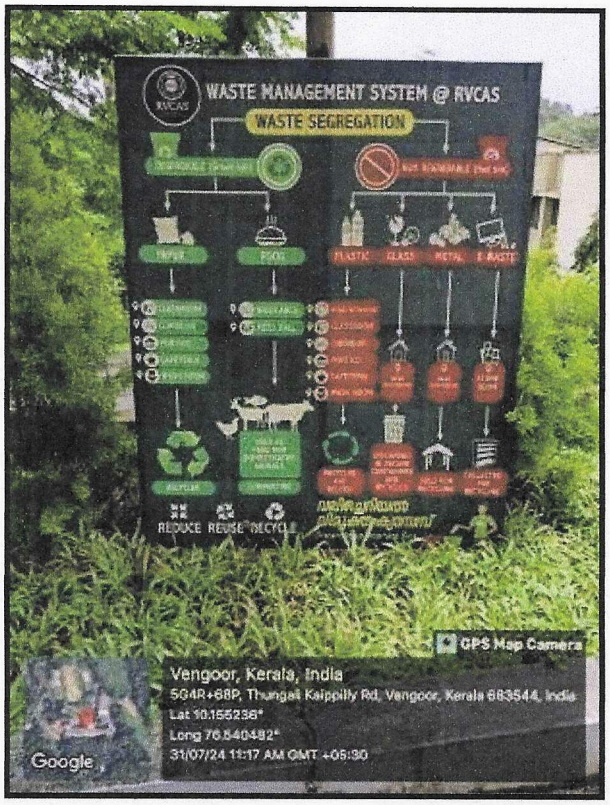
3. Waste Segregation Flowchart for Management



Waste Segregation Flowchart Displayed on the Campus

Rajagiri Viswajyothi College of Arts & Applied Sciences, Vengoor, has established an effective Waste Management System that prioritizes waste segregation, recycling, and sustainability. This system is meticulously designed to handle both degradable and non-degradable waste, encouraging environmentally conscious practices among its students and staff.

At RVCAS, waste is segregated into two main categories: degradable (green bin) and non-degradable (red bin). **Degradable** waste includes paper and food. Paper waste is collected from various campus locations, including classrooms, corridors, porticos,

cafeterias, and washrooms. Food waste is collected from wash areas and mess halls and is then utilized as feed for domesticated animals and for composting purposes. **Non-degradable** waste encompasses plastic, glass, metal, and e-waste. Plastic waste is collected from near outhouses, classrooms, corridors, porticos, cafeterias, and washrooms. Glass, metal, and e-waste are gathered from near outhouses and a designated storeroom, respectively. The non-degradable waste is collected by Haritha Karma Sena, an organization committed to sustainable waste management practices. The college employs various methods to effectively treat and manage the collected waste. Degradable waste is recycled, reused, used as animal feed, and composted. Non-degradable waste is recycled, reused, discarded in secure containers, and sold for recycling. The waste management system at RVCAS highlights the importance of reducing waste generation and maximizing recycling and reuse. The college promotes proper disposal practices to ensure waste is segregated and managed efficiently. This system aligns with the institution's dedication to sustainability and environmental consciousness.

4. Color-Coded Dustbins

Rajagiri Viswajyothi College of Arts & Applied Sciences, Vengoor, employs a system of **Color-Coded Dustbins** to facilitate effective waste segregation. This visual aid consists of two distinct colors: green for paper waste, red for plastic waste. These dustbins are strategically placed throughout the campus and within departments, promoting easy identification and disposal of different types of waste. This initiative not only encourages proper waste management among students but also fosters recycling practices by providing a convenient disposal method based on waste type.

Name of the Facility	Number	Year of Installation
Colour-Coded Waste Bins	**40**	**2019**

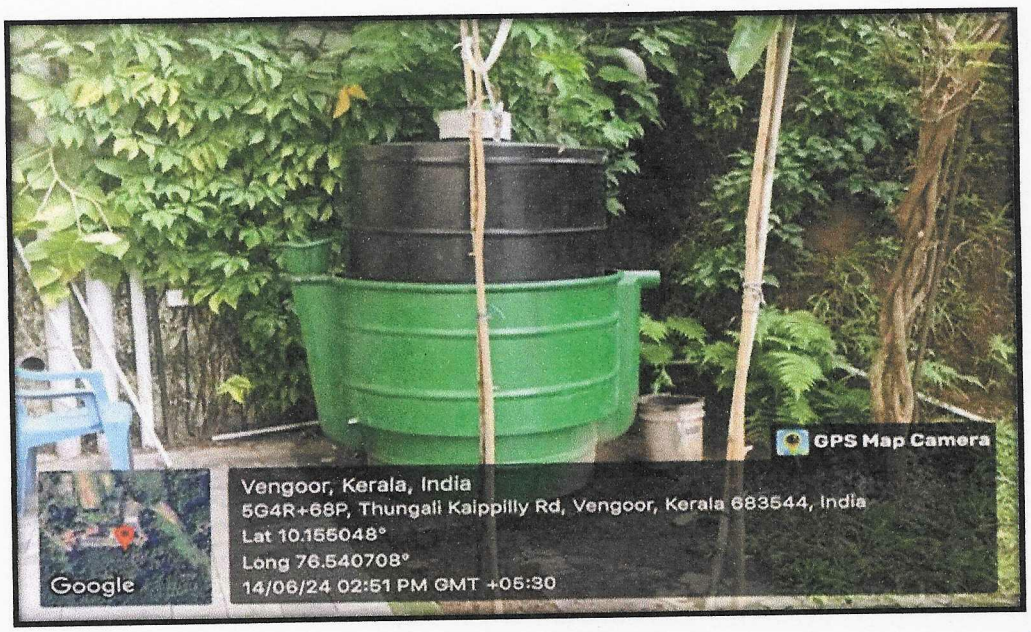
Waste Bins on Campus

Segregation of Bio-Degradable Waste

5. Biogas

At Rajagiri Viswajyothi College of Arts & Applied Sciences, Vengoor, a **Biogas** facility near the college canteen efficiently transforms kitchen waste into clean fuel, which is used for cooking and significantly reduces dependence on traditional energy sources. This versatile biogas unit serves both as an effective tool for energy conservation and a solution for waste management.

Nature of Facility	Portable Biogas Plant with Water Jacket
Year of Implementation	2023
Capacity	15 kg per day
Diameter	2.5 meter
Output Gas Per day	2 m^3



Biogas Plant at the College Canteen

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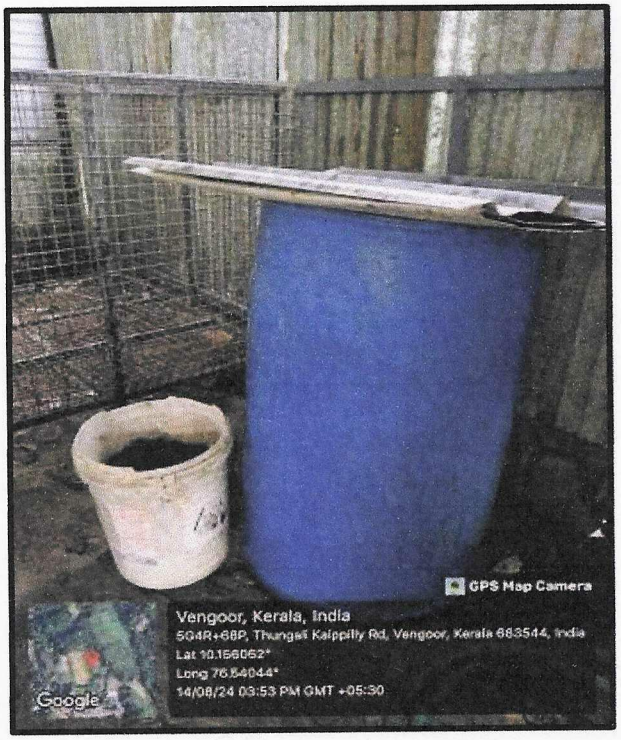
6. Food Waste Pipe Composting

At Rajagiri Viswajyothi College of Arts & Applied Sciences, Vengoor, an innovative **Food Waste Pipe Composting** initiative has been established by the Nature Club, with the support of student volunteers and the College Housekeeping Committee. This sustainable approach utilizes repurposed five-foot eight-inch PVC pipes to compost food waste generated on campus. This hands-on project not only addresses waste management effectively but also fosters environmental stewardship among students. The resulting bio-fertilizer enriches the college's vegetable garden, exemplifying a closed-loop system that promotes sustainable practices within educational institutions.

Food Waste Pipe Composting System near the Canteen

7. Aerobic Inoculum

Rajagiri Viswajyothi College integrates aerobic inoculum into its sustainability practices, showcasing its commitment to environmental health and innovative agricultural techniques. **Aerobic Inoculum**, which consists of beneficial aerobic microorganisms, plays a crucial role in improving soil health, enhancing composting processes, and supporting effective waste management. In the college's composting programs, aerobic inoculum accelerates the breakdown of organic waste. These microorganisms facilitate faster decomposition, leading to high-quality compost that enriches campus gardens and landscapes. This approach not only enhances the quality of compost but also reduces waste and supports sustainable waste management. Through the strategic use of aerobic inoculum, Rajagiri Viswajyothi College reinforces its dedication to environmental sustainability while providing practical benefits that support the health and productivity of its campus ecosystem.



Aerobic Inoculum on Campus

8. Animal Husbandry

Rajagiri Viswajyothi College is dedicated to advancing sustainable practices through its comprehensive **Animal Husbandry** programme. This green initiative focuses on rearing cows, goats, and rabbits, reflecting the college's commitment to environmental stewardship and responsible agriculture. The college's dairy cows play a crucial role in its sustainability efforts by providing a local source of milk, which reduces reliance on external dairy products and supports food security. Their manure is utilized as organic fertilizer for campus gardens, improving soil health and minimizing the use of chemical fertilizers. The rabbitry supports the college's green initiative by producing nutrient-rich manure, ideal for composting and enhancing soil fertility. Additionally, rabbits are integrated into educational programs, offering students hands-on experience in small-scale animal husbandry and sustainable practices. Organic waste from the college, such as vegetable scraps, is repurposed as feed for the animals, promoting effective waste management and contributing to a circular approach to resources.

Rabbitry on Campus

9. Poultry Farm

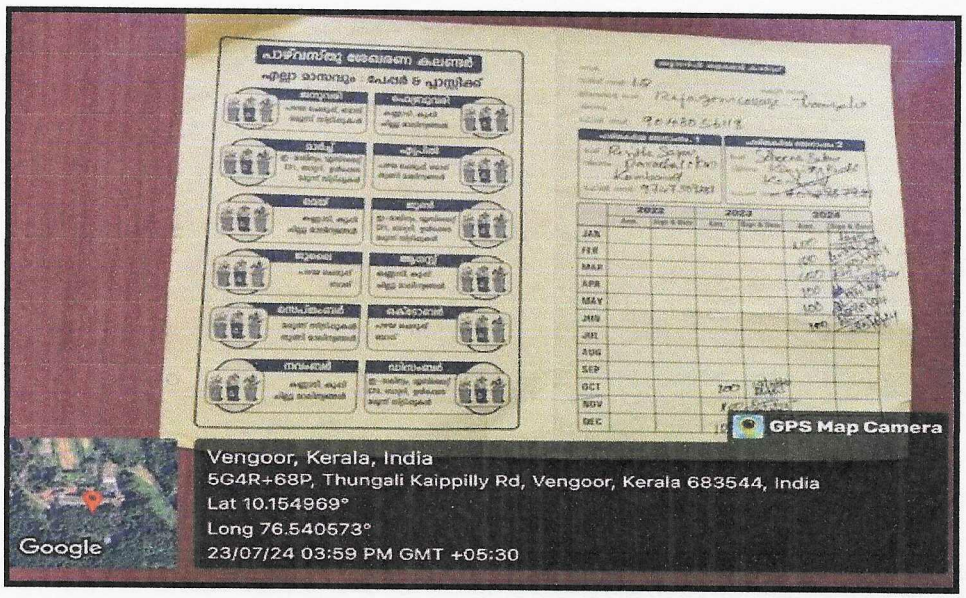
The **Poultry Farm** at Rajagiri Viswajyothi College is a testament to the institution's commitment to environmentally conscious practices. By incorporating this farm into its operations, the college not only supports sustainable food production but also provides valuable education on responsible farming techniques. Organic waste from the campus, such as vegetable scraps, is efficiently repurposed as feed for the poultry, contributing to effective waste management. The farm utilizes natural resources wisely and employs methods that minimize waste and reduce the overall carbon footprint. This integration of green practices reflects the college's dedication to sustainability and its role in fostering an environmentally responsible community.

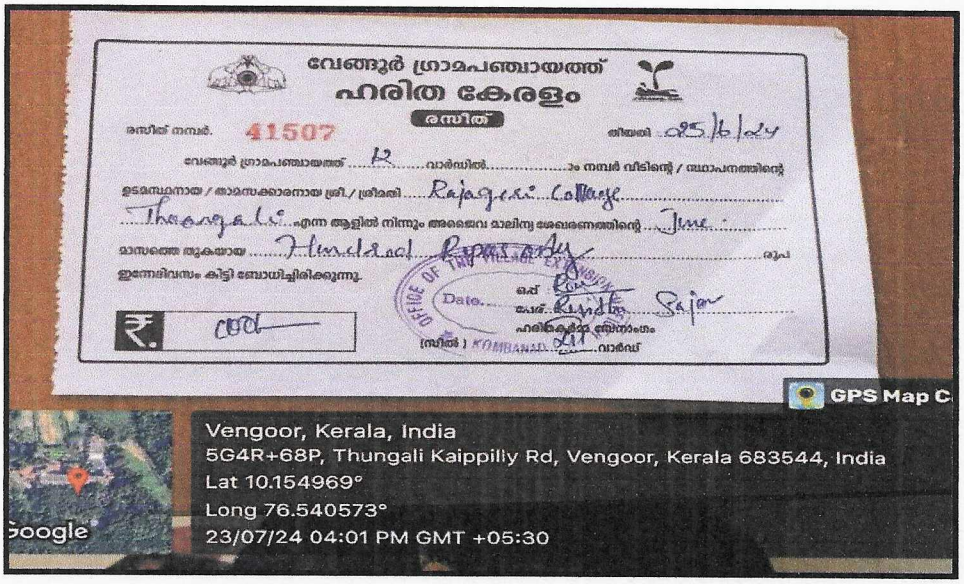
Poultry Farm on Campus

10. E-Waste Handling and Management

In Rajagiri Viswajyothi College of Arts & Applied Sciences, Vengoor, e-waste management is conducted in collaboration with the local **Panchayat and Haritha Karma Sena.** The Haritha Karma Sena oversees the collection of all non-biodegradable

and electronic waste from the college premises. They charge a subscription fee of Rs. 100 for their services. This partnership ensures that electronic waste is properly collected and managed, promoting environmentally responsible practices within the college community.





Collection Card and Receipt from Haritha Karma Sena

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