

**COLLEGE OF APPLIED SCIENCE MAVELIKARA**  
**AFFILIATED TO UNIVERSITY OF KERALA**  
**MANAGED BY IHRD**  
**A GOVERNMENT OF KERALA UNDERTAKING**



**GREEN AUDIT REPORT**

## **INTRODUCTION**

The green audit is a systematic process of identifying, quantifying, recording, reporting, and analysing the environmental practices within and around campuses to foster an eco-friendly atmosphere. Initiated to assess the efforts of institutions whose activities may pose risks to the environment and inhabitants health, the green audit provides guidance on improving environmental conditions and includes various factors that influence its implementation and growth.

## **OVERVIEW OF THE COLLEGE**

The College of Applied Science, Mavelikara was established in 1994. The institution is affiliated to the University of Kerala and is managed by the Institute of Human Resources Development, Thiruvananthapuram, a Government of Kerala undertaking popularly known as the IHRD in the Kerala higher education sector. The College is spread across two campuses one at Govt BHSS compound mavelikara and the other at Thazhakara.CAS Mavelikara offers a diverse range of Undergraduate and Postgraduate programs across various discipline. The college provides undergraduate programmes such as:

- 1.B.Sc. Computer Science
- 2.B.Sc. Electronics
- 3.Bachelor of Computer Applications (BCA)
- 4.Bachelor of Business Administration (BBA)
- 5.B.Com. with Computer Applications
- 6.B.Com. in Tax Procedure and Practice
- 7.B.Com. in Finance

The college also provides Post Graduate Programmes such as:

- 1.M.Sc. Computer Science
- 2.MCom
- 3.MSc Electronics
- 4.MBA



## **GREEN AUDIT COMMITTEE**

College of Applied science Mavelikara along with staffs and students formed a committee for the proper functioning of green audit. The committee consisted of:

- Abhijith Chandran (Assistant Professor in Management)
- Saviour Francis (Assistant Professor in Commerce)
- Rakhi S Nair (Assistant Professor in Computer Science)
- Ambadi S (Second Year BBA)
- Devan Viswakumar (Second Year BBA)
- Farhan (Second Year BBA)
- Akshaya Pradeep (Second Year BBA)
- Sithara (Second Year BBA)
- Vishnupriya (Second Year BBA)
- Anishka Shanker (Second Year BBA)
- Abhirami Viswanath (Second Year BBA)
- Vishnu Narayanan (Second Year BBA)
- Mabishnamol M (Second Year BBA)

## **NEED FOR GREEN AUDITING**

Green auditing involves assessing whether an institution's practices are environmentally friendly and sustainable. Historically, humans have used natural resources efficiently, but over time, excessive consumption of resources like energy and water, particularly in shared spaces, has become common. A green audit helps regulate these practices, promoting efficient resource use. In the context of climate change and resource scarcity, it's essential to evaluate and transform processes to be more sustainable. Green audits foster environmentally conscious practices and enhance awareness among individuals within the institution.

## **GOALS OF GREEN AUDIT**

1. Recognize and record the eco-friendly practices implemented by the university.
2. Evaluate the strengths and shortcomings of the university's green initiatives.
3. Examine identified issues and propose effective solutions.
4. Review the infrastructure for managing various types of waste.
5. Promote greater environmental consciousness across the campus community.
6. Detect and evaluate potential environmental risks.
7. Encourage staff to use resources sustainably and efficiently.

8.The long-term objective of the environmental audit program is to gather baseline environmental data and address issues proactively to prevent future problems.

## **OBJECTIVES OF GREEN AUDIT**

- 1.Assess current practices, including resource use and waste management, that may affect the environment.
- 2.Identify and evaluate key environmental concerns.
- 3.Define goals, vision, and mission for sustainable green practices on campus.
- 4.Develop and apply an Environmental Management System across various departments.
- 5.Conduct ongoing evaluations to improve performance in green initiatives.

## **BENEFITS OF GREEN AUDIT TO EDUCATIONAL INSTITUTIONS**

- 1.Contribute to safeguarding the environment within and surrounding the campus.
- 2.Identify cost-saving opportunities through reducing waste and conserving energy.
- 3.Enable the institution to enhance its environmental performance.
- 4.Project a positive image of the institution with a clean and sustainable campus.

## **RECOMMENDATIONS**

- 1.The college should implement a water audit to track water usage and minimize wastage.
- 2.The college should construct a solar plant to make use of solar energy and conserve energy
- 3.Install water meters in every campus building to monitor per capita water consumption.
- 4.Set up an e-waste collection centre on campus to manage electronic waste responsibly.
- 5.Organize training programs on environmental management and nature conservation for schools and local communities.
- 6.Set up a biogas plant on campus to make use of organic waste.
- 7.Renovate the toilets and use nets to prevent bird droppings to keep interiors clean
- 8.Follow green building guidelines for all future campus expansion projects to ensure sustainability.

## **OBSERVATIONS**

The study found that the institute primarily sources its water from primarily underground water i.e. well. This water is utilized for drinking, sanitation, and gardening purposes. Wastewater is repurposed for gardening. During the survey, no water loss was observed due to leakages or overflow from overhead tanks. Data gathered from all departments was analysed and validated. There is a total of 6 tanks,3 in each campus.

## **LIST OF TREES AND PLANTS IN THE CAMPUS**

- 1.Peepal Tree
- 2.Banyan Tree
- 3.Coconut Tree
- 4.Acacia
- 5.Rambutan
- 6.Pepper
- 7.Golden Shower
- 8.Plantain
- 9.Mangosteen
- 10.Pea plant
- 11.Allamanda
- 12.Polypodies
- 13.Balsam
- 14.Adiantum
- 15.Silver vase plant
- 16.Bauhinia
- 17.Mango tree
- 18.Cats claw creeper

19.Ixora

20.Jack Fruit

21.Gooseberry

22.Green Chilli

23.Rose

24.Hibiscus

25.Colocasia

## **FRUITS AND VEGETABLE GARDEN**

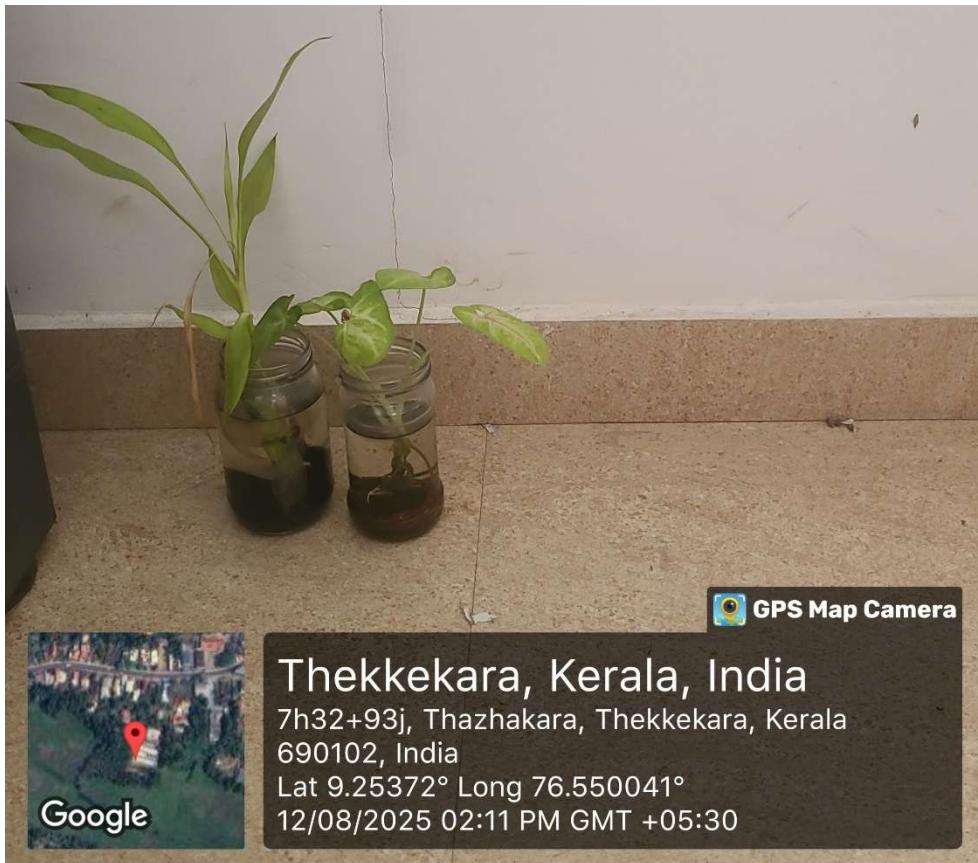




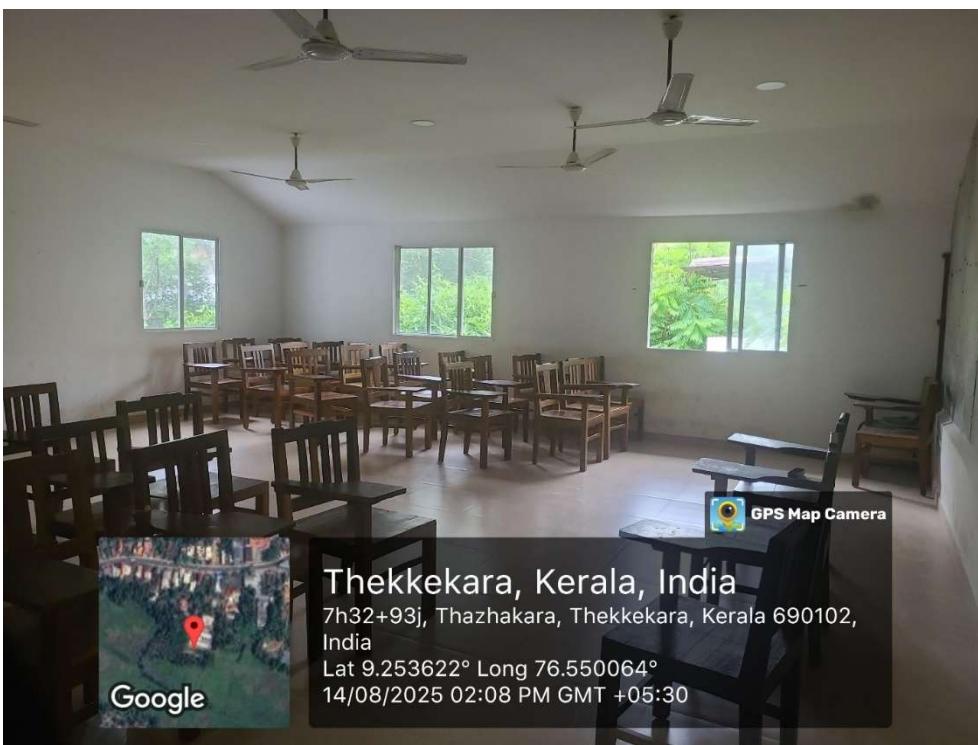
## ORNAMENTAL PLANTS



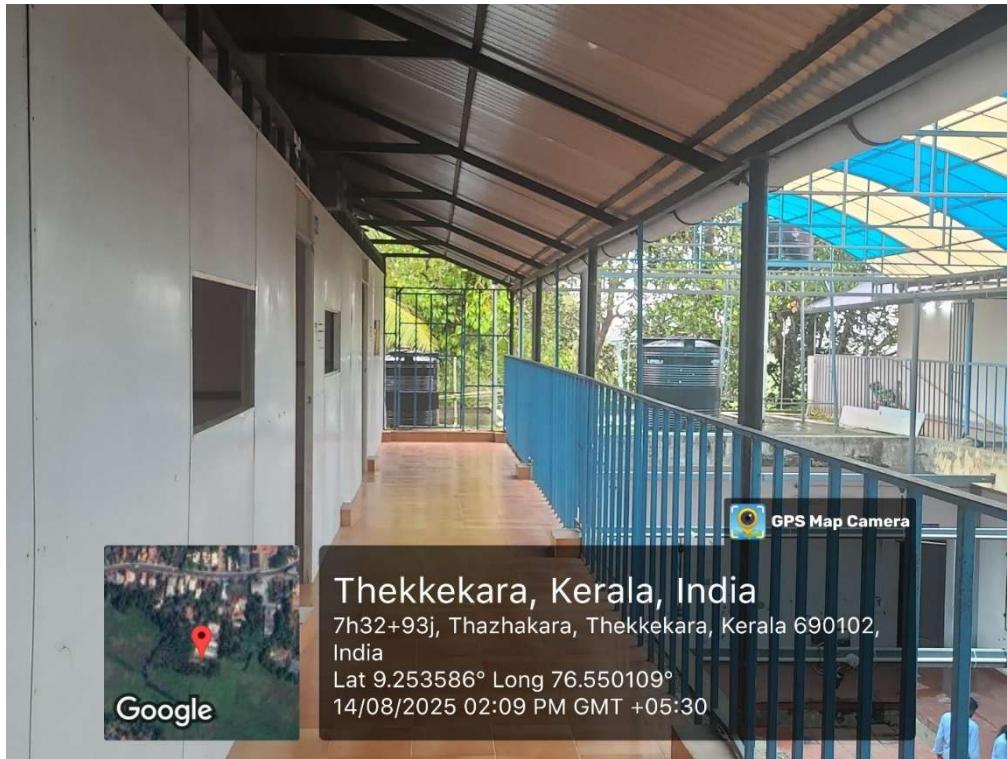
## INDOOR PLANTS



## WELL VENTILATED CLASSROOMS



## TOILET AND WATER TANK AREA



## PLANTING TREES BY NSS

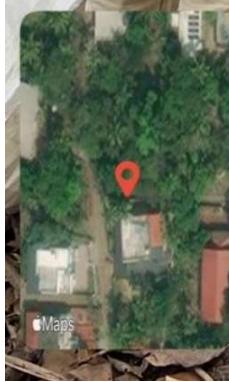


## CLEANLINESS DRIVE





GPS Map Camera



## Kannamangalam Alappuzha, Kerala, India

Chettikulangara, Kannamangalam Alappuzha,  
690103, Kerala, India

Lat 9.231860, Long 76.514938

12/26/2024 12:23 PM GMT+05:30

Note : Captured by GPS Map Camera

## HARITHAKARMASENA PROTOCOL



College of Applied science is advised to follow some protocols designed by HARITHA OFFICE

Managed by Government of Kerala, Haritha Keralam mission, Suchithva mission

DOs:

Usage of steel plate and cups

Cotton bags

Cotton banners

Steel or glass water bottles

Composting

Seed and sapling promotion

DONTs

Disposable cups, plates, straw, plastic glass and straw

Flex banners

Plastic plants for ornamental purpose

Plastic pens, Plastic cover parcelling of foods

Tissue paper

Plastic burning

## AWARDS & RECOGNITION



## PROTOCOLS BY OUR COLLEGE

- SNEHARAMAM Project by government of Kerala which is managed by NSS Students unit Number 48 and 62. They planted various small ornamental plants Infront of our campus and besides that students also made a seating area for leisure times
- Paper and wooden pen stands instead of plastic
- Made small cardboard box for putting used pens and unwanted paper
- College is now a Green Campus with near zero plastic usage
- We minimize the use of plastic and paper cups and promote steel cups and earthen pot cup