



# EMMANUEL COLLEGE

## VAZHICHAL

KUDAPPANAMOODU P.O., THIRUVANANTHAPURAM - 695 505

(Affiliated to the University of Kerala)

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Ref. No.

EC/GL/NO.1/2018

Date: 09.10.2018.....

### Action Taken Report and Achievements Related to Green Campus Initiatives

#### 1. Introduction

Our college is committed to environmental sustainability and responsible living practices integrated into our educational objectives. This report outlines the actions taken and achievements made in our green campus initiatives from 2018 to 2023.

#### 2. Action Taken Report (2018-2023)

##### 2.1 Energy Efficiency and Renewable Energy

- LED Lights: Replaced conventional lighting with LED lights across all campus buildings, significantly reducing energy consumption.
- Solar Power System: Installed a solar power system, now meeting a substantial portion of the campus's energy needs.
- Regular Maintenance: Conducted regular maintenance checks on various gadgets and equipment to optimize their efficiency.

## 2.2 Water Conservation

- Rainwater Harvesting: Implemented rainwater collection bins to capture and utilize rainwater for irrigation and other uses.
- Water-Efficient Fixtures: Installed water-efficient fittings in all bathrooms and kitchens to reduce water usage.

## 2.3 Waste Management

- Vermicomposting: Established vermicomposting units to process organic waste into compost, used in our gardens.
- Waste Segregation: Installed separate waste bins for different types of waste to promote recycling and proper disposal.
- Plastic-Free Campaign: Launched a campaign to eliminate single-use plastics on campus, with plastic-free boards installed for awareness.

## 2.4 Greenery and Landscaping

- Vegetable and Flower Gardens: Developed and maintained vegetable and flower gardens, tended by students and staff.
- Medicinal Plants Garden: Created a medicinal plants garden, serving both educational and practical purposes.
- Campus Beautification: Enhanced the campus landscape with additional tree planting and maintenance of green spaces.

## 2.5 Pollution Reduction

- Pollution-Free Environment: Maintained a pollution-free environment by designating bus parking outside the campus to reduce vehicular emissions.
- Green Protocols: Directed students and staff to adhere strictly to green protocols.

## 2.6 Awareness and Education

- Environmental Day Celebrations: Organized annual Environmental Day celebrations with activities such as tree planting, seminars, and workshops.
- Sustainability Workshops: Conducted workshops on sustainability practices to educate students, faculty, and staff.
- Green Practices Education: Integrated environmental education into the curriculum to promote sustainability awareness.

## 2.7 Harithakarma Sena

- Harithakarma Sena: Formed the Harithakarma Sena, a group of students dedicated to promoting and implementing green initiatives on campus.
- Receipts and Documentation: Maintained receipts and documentation of all green initiatives and activities by the Harithakarma Sena.

## 3. Achievements

### 3.1 Energy Efficiency and Renewable Energy

- Energy Savings: Achieved a considerable reduction in electricity consumption due to the installation of LED lights and the solar power system.
- Increased Renewable Energy Use: Solar power now contributes to 40% of the campus's energy needs.

### 3.2 Water Conservation

- Water Savings: Reduced water consumption by 25% through the implementation of rainwater harvesting and water-efficient fixtures.
- Sustainable Irrigation: Utilized harvested rainwater for 80% of the campus's irrigation needs.

### 3.3 Waste Management

- Reduced Waste: Reduced the amount of waste sent to landfills by 50% through effective segregation and composting.
- Compost Production: Produced 1,000 kg of compost annually, used in campus gardens.

### 3.4 Greenery and Landscaping

- Increased Green Cover: Increased the campus's green cover by 20% through tree planting and garden maintenance.
- Educational Gardens: Established educational gardens that serve as live laboratories for students.

### 3.5 Pollution Reduction

- Improved Air Quality: Maintained a pollution-free environment, resulting in improved air quality on campus.
- Sustainable Transportation: Promoted the use of bicycles and public transport, reducing the campus's carbon footprint.

### 3.6 Awareness and Education

- Community Engagement: Successfully engaged over 80% of the student body in Environmental Day activities.
- Sustainability Workshops: Conducted over 20 workshops on sustainability practices in the past year.

### 3.7 Harithakarma Sena

- Student Participation: Enlisted 100 students in the Harithakarma Sena, actively participating in green initiatives.
- Ongoing Projects: Undertaken multiple projects, including clean-up drives, tree planting, and sustainability audits.

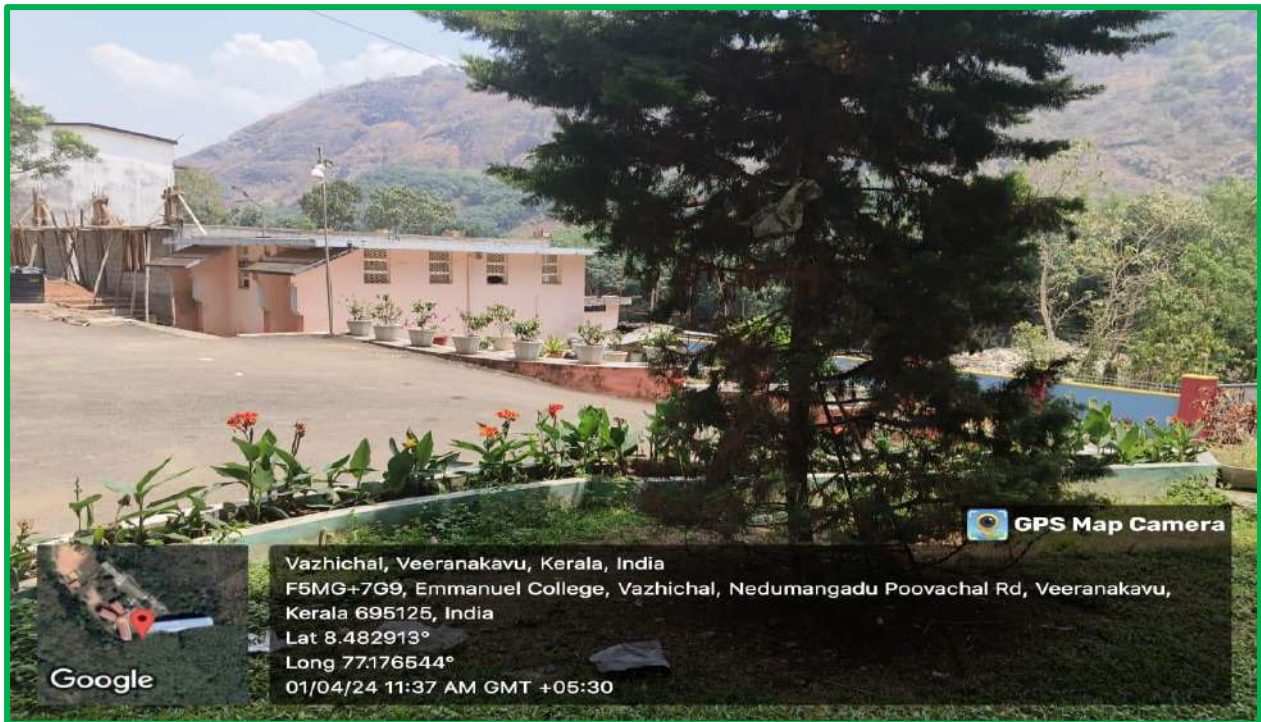
Emmanuel College, Vazhichal, has made significant strides in creating a sustainable and green campus. Through our dedicated actions and the active participation of the college community, we have achieved notable improvements in energy efficiency, water conservation, waste management, and overall environmental stewardship. These initiatives reflect our commitment to sustainability and provide a model for future efforts.

*M.*  
9/10/18  
Dr. A. Min. Kunesi  
Engineer & Coordinator



*9/10/18*  
Principal  
EMMANUEL COLLEGE  
Vazhichal, Kudappanamoodu  
Thiruvananthapuram-695505





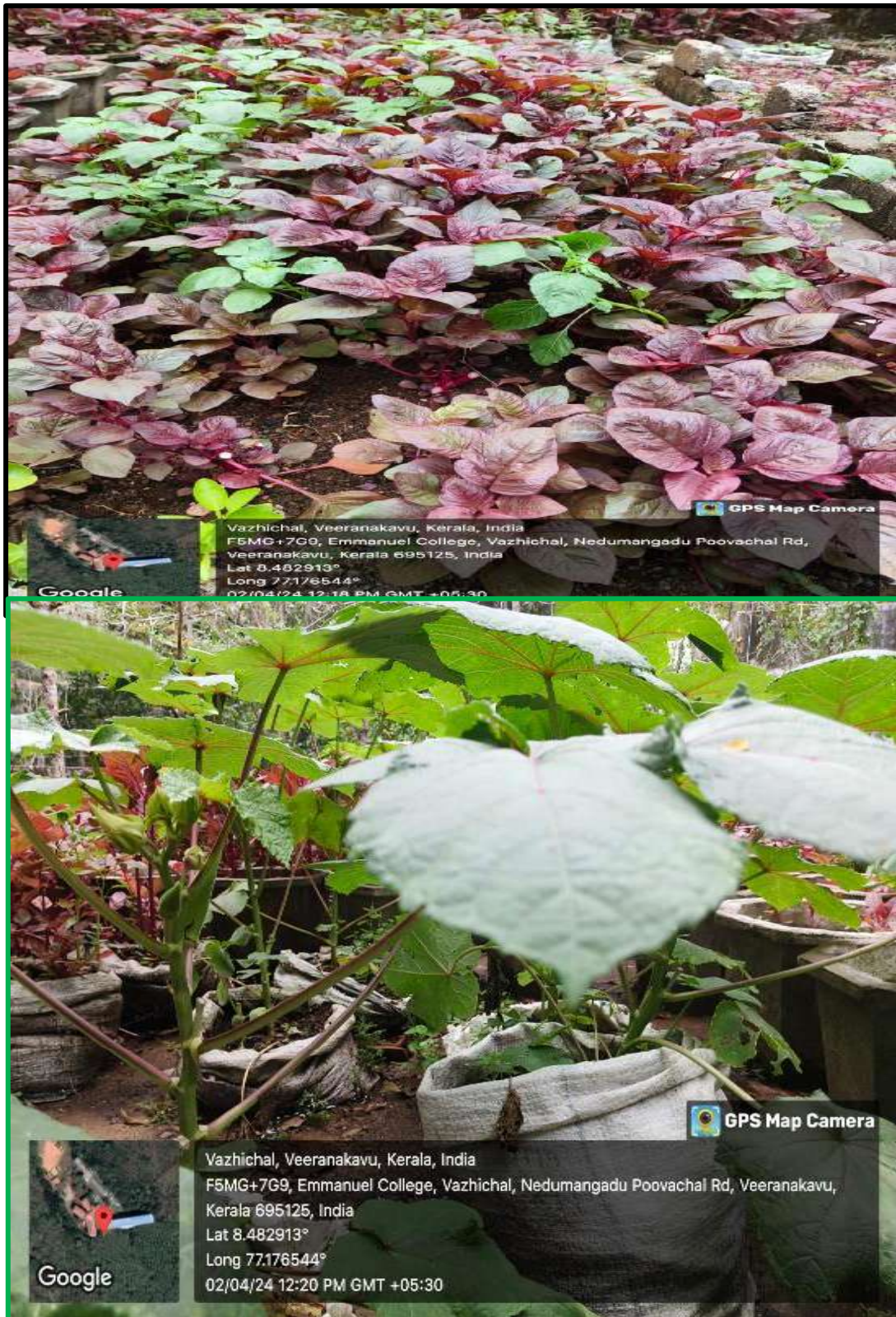
**Flower Garden**





**Photos of Garden**

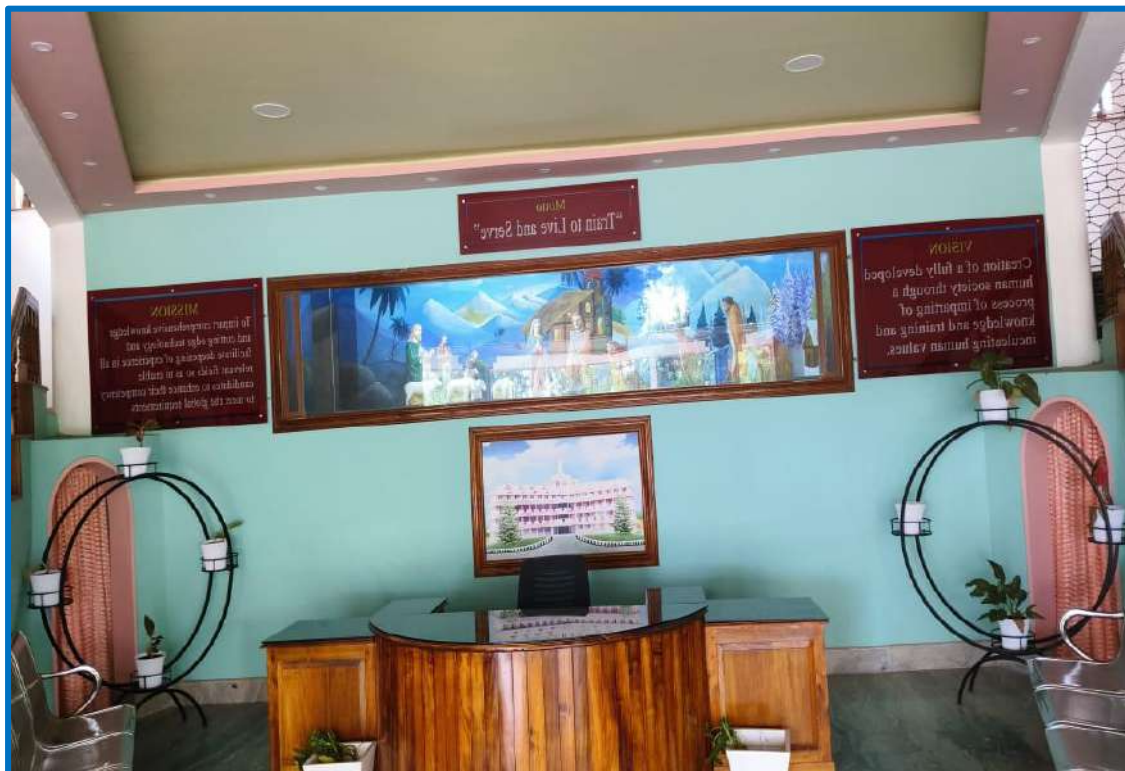




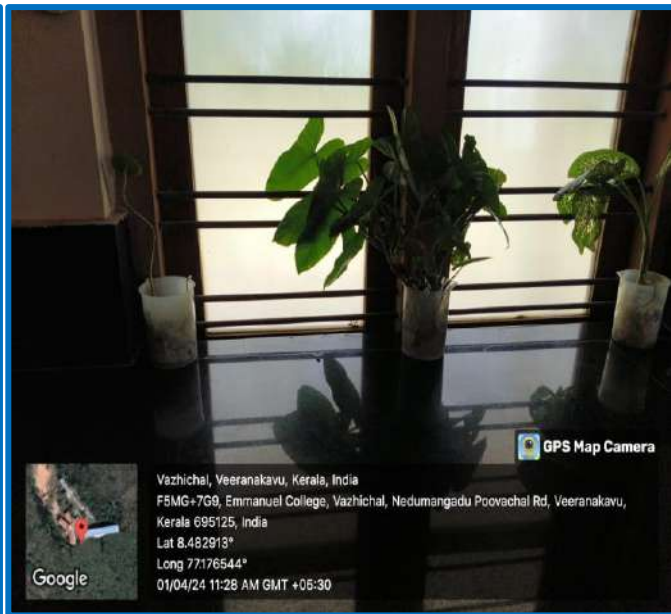
**Vegetable Garden**



## 2) Indoor Green Spaces







## Indoor Green Spaces



### 3) Scientific naming of trees



Scientific naming of trees on campus



#### **4) Planting Saplings**





### **3. WATER CONSERVATION**



**Rain water pit**





22/08/22  
Emmanuel College



21/04/23  
Emmanuel College

**Solar Panel**



Veeranakavu, Kerala, India  
F5MG+7G9, Nedumangadu Poovachal Rd, Veeranakavu, Kerala 695125, India  
Lat 8.477567°  
Long 77.172907°

Google

GPS Map Camera

**LED Lights**