



**LISSAH**  
LITTLE FLOWER INSTITUTE OF  
SOCIAL SCIENCES AND HEALTH

# Best Practice 2

**The Road to A Sustainable Campus:  
Strategies for Going Green**



**LISSAH**  
LITTLE FLOWER INSTITUTE OF  
SOCIAL SCIENCES AND HEALTH

The institution is committed to preserving a green campus where environmental practices and education combine to produce sustainable and eco-friendly initiatives.





## **A Harmonious Blend of Infrastructure with Abundant Greenery**



### **Lush Greenery**

The campus is beautifully landscaped with lawns and bushy trees in all the vacant areas.





## **A Harmonious Blend of Infrastructure with Abundant Greenery**



### **Green Canvas**

The LISSAH campus is a green canvas and is truly a temple for the young students to worship ecological practices, and learn how to keep one's environment aesthetically pleasant - green, clean, and waste-free.

# FLORAL DIVERSITY



## LISSAH boasts diverse flora, including Plants, Herbs, Climbers, Bamboos and Trees



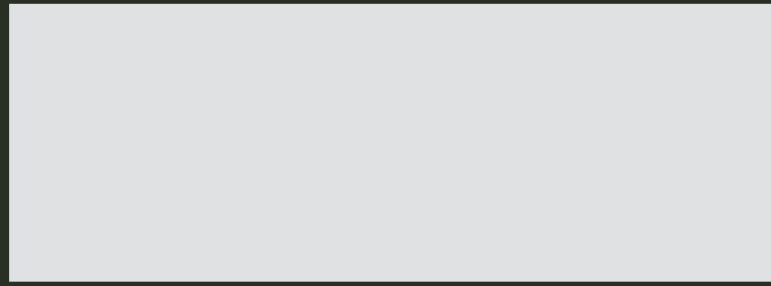
# FRUIT GARDEN



Campus trees offers fruits. shades and nourishments to students and birds



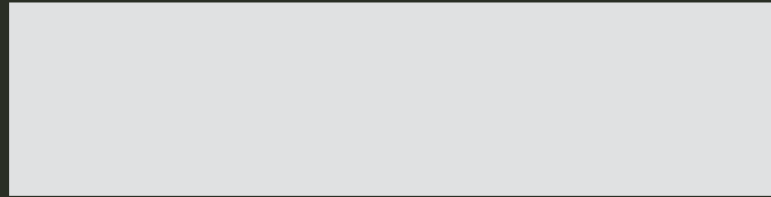
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26th Mile, Kaithapoyil, Kerala 673023, India  
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## Green Audit assess resources used and suggests changes for Eco-Initiatives

**NGFm**  
Nature's Green Guardians Foundation  
Trivandrum 695 043 India

**Biodiversity - Green Audit Certificate**  
LISSAH College, Kaithapoyil, Kozhikode, Kerala for AY 2020 - '21

This Green Audit including evaluation of Biodiversity conservation has been conducted for Little Flower Institute of Social Sciences and Health (LISSAH College), Kaithapoyil, Kozhikode, 673 586 Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its sub-committees, and Biological Diversity Act, 2002 (Act No. 18 of 2003) of Government of India and other relevant mandates for promotion of sustainable living and education in a healthy environment.

In our opinion, the Institution has presented true and up-to-date data on the various aspects of working of this higher education institution before the audit team, and appropriate audit procedures have been completed for preparing this report. The assessments and recommendations are based on data presented before the team at the time of audit.

The audit methodology did combine physical inspection of the campus on several work days and holidays, with analytical reviews of relevant documents and activities, as well as interviews with the designated members of Staff and Students of the College.

This audit is conducted to ensure that a Green Lifestyle is followed and implemented in the campus across all academic and non-academic departments, as well as the body of students undergoing studies in the College.

Green Audit 2020-'21 of LISSAH College, Kaithapoyil, Kozhikode, 673586 has found that the institution's per capita carbon footprint for the year is only 0.196 ton of CO<sub>2</sub> equivalent, a level well below the current national per capita average of 1.84 t CO<sub>2</sub> (2021 level), with potential to develop into a carbon neutral campus. All efforts are taken to conserve, protect, and enrich the existing biodiversity and also to extend efforts even beyond the college boundary through outreach, and further by implementing the Green Protocol, and having a commitment to continue its green practices to positively impact the society at large.

**Prof. V K Damodaran**  
Ex-UNEP Expert  
For NGGFm Audit Team, dated 22 January 2022

I agree with the data presented in this report as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.

**Dr. Benny Joseph, Principal**  
LISSAH College, Kaithapoyil, Kozhikode 673586, Kerala

Date: 22 January 2022

**NGFm**  
Nature's Green Guardians Foundation  
Trivandrum 695 043 India

**Energy Audit Certificate**  
LISSAH College, Kaithapoyil, Kozhikode, Kerala for AY 2020 - '21

Energy Audit for the period of academic year 2020-'21 has been conducted for Little Flower Institute of Social Sciences and Health (LISSAH College), Kaithapoyil, Kozhikode, 673 586 Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Sub-committees, Bureau of Energy Efficiency Standards, and stipulations under the Energy Conservation Act 2021 of Government of India, and other relevant mandates for maintenance of sustainable and healthy environment for education in the campus.

In our opinion, the Institution has presented true and up-to-date data on relevant activities to the audit team, and appropriate audit procedures have been completed for issuing this Audit Certificate and the Compliance Statement. The recommendations are based on verified data presented as they existed at the time of audit.

The inspection methodology did combine physical inspection of the campus, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, and selected members of Staff and Students of the College.

Audit findings indicate that, of the 191.3 T CO<sub>2</sub> of carbon footprint of the institution for the year, the contribution from direct use of electricity and firewood was limited to 57.7 T CO<sub>2</sub>. Transportation including public transport use outside the campus is at 63.3 T CO<sub>2</sub> for 33% of the total. Wastes contributed 46.3 T CO<sub>2</sub>, and 'wastes to energy' thro biogas returned only 5.5 T CO<sub>2</sub> (remedial measures). Effective awareness and training programs were conducted during the year and are planned for the future as well, to make all stakeholders aware of the need for individual efforts.

**Prof. V K Damodaran**  
Ex-UNEP International Energy Expert  
For NGGFm Audit Team, dated 22 January 2022

I agree with the data presented in this report, as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.

**Dr. Benny Joseph, Principal**  
LISSAH College, Kaithapoyil, Kozhikode 673586, Kerala

Date: 22 January 2022

**NGFm**  
Nature's Green Guardians Foundation  
Trivandrum 695 043 India

**Green Audit - Environment Quality Certificate**  
LISSAH College, Kaithapoyil, Kozhikode, Kerala for AY 2020 - '21

Environment Audit for the academic year 2020 - '21 has been conducted for Little Flower Institute of Social Sciences and Health (LISSAH College), Kaithapoyil, Kozhikode, 673 586 Kerala, in accordance with the International Standards for ISO 14000 family of standards set by ISO TC 207 and its Sub-committees, Biological Diversity Act 2002, Environmental Protection Act 1986 (and amendment) of Government of India, and other relevant mandates for maintaining sustainable and healthy environment for education in the campus.

In our opinion, the Institution has presented true and up-to-date data on the various aspects of working of this education institution, and appropriate audit procedures have been completed by the audit team for issuing this Audit Certificate and Compliance Statement. The recommendations are based on verified data presented on the situation as they existed at the time of audit.

The audit methodology did combine physical inspection of the campus on several occasions, with analytical reviews of relevant documents and activities, as well as interviews with the Principal, selected Staff members and Students of the College.

Audit findings indicate that, of the 191.3 T CO<sub>2</sub> of carbon footprint of the institution for the year, the contribution from Transportation and mobility including public transport use is at 63.3 T CO<sub>2</sub> - with 20.7 T CO<sub>2</sub> coming from the use of personal vehicles by staff and students, and that out of Wastes is at 46.3 T CO<sub>2</sub>. But, the remedial activities contributed a relief of 40.5 T CO<sub>2</sub>. The campus is maintained litter free, clean, and green. Environmental Quality in the campus is seen to be 'superior' to many other institutions of the same size.

**Prof. V K Damodaran**  
Ex-UNEP International Energy Expert  
For NGGFm Audit Team, dated 22 January 2022

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**Dr. Benny Joseph, Principal**  
LISSAH College, Kaithapoyil, Kozhikode 673586, Kerala

Date: 22 January 2022

**NGFm**  
Nature's Green Guardians Foundation  
Trivandrum 695 043 India

**Green Audit - Biodiversity Audit**  
Compliance Statement for AY 2020 - '21  
LISSAH College, Kaithapoyil, Kozhikode, Kerala

Overall Objective	Main Objectives	Compliance Status
Ensure that an effective biodiversity protection plan is followed in the campus with the maintenance of all plants and animals living in and around the campus, and expanding the same even to the communities outside the campus in addition to working for capacity building to withstand Climate Change impacts.	1. Ensure that there is a competent Biodiversity Expert from an external agency, who will provide guidance on Biodiversity and Resource conservation, and improve the ecology.	Ensured continuous guidance of experts from NGGFm
	2. Ensure that an Environment Protocol is adopted and followed in the campus community, adherence of which is reviewed, monitored, and targets reset annually.	Ensured [ Vide P 13 of 2020-21 Green Audit Report on Green Protocol]
	3. Ensure that frequent training and awareness programs are planned and carried out focusing on climate change resiliency.	Done. 3 during the Audit year. Committed to Continue.
	4. Ensure that every student and staff member commit to the lowering of carbon footprint of the institution through sustained greening measures.	Commitment Ensured.
	5. Ensure that Environment Audit is conducted annually, with participation of staff and students, and that recommendations are followed up.	Annual Green Audit Committed in Green protocol.

**Prof. V K Damodaran**  
Ex-UNEP Expert  
For NGGFm Audit Team, dated 22 January 2022

**NGFm**  
Nature's Green Guardians Foundation  
Trivandrum 695 043 India

**Green Audit - Energy Audit**  
Compliance Statement for AY 2020 - '21  
LISSAH College, Kaithapoyil, Kozhikode, 673 586 Kerala

Overall Objective	Main Objectives	Compliance Status
Ensure that an effective energy management plan is followed in the campus with high degree of energy efficiency and increasing rate of utilization of renewable energy, as also help raise the Climate Change resiliency, which is periodically reviewed and implemented incessantly.	1. Ensure that there is a competent Energy Management Expert from an external agency, who will provide guidance on Energy conservation and energy transition initiatives.	Ensured continuous support and guidance from NGGFm headed by an International Energy Expert and with multidisciplinary expertise.
	2. Ensure that the Energy Conservation Strategy is reviewed annually, progress monitored, and achievable and measurable targets set for the future course.	[Ensured. Vide Section on Energy Efficiency and on Renewable Energy Use in the Green Audit Report for 2020-21.]
	3. Ensure that a Policy on embracing Green energy, energy efficiency, and wastes to energy is evolved, enforced, and reviewed regardless of it exceeding legal mandates.	Ensured. Vide P 13 of Green Protocol in Green Audit Report 20-21.
	4. Ensure that every student and member of staff commits to the lowering of carbon footprint of the institution from all facets of energy use.	Ensured. Current year 3 Training programs organised.
	5. Ensure that Energy Audit is conducted annually, with involvement of staff and students and action taken on all the viable recommendations of the linked external expert & energy agency.	Energy Audit conducted and actions for 2022-23 in planning stage.

**Prof. V K Damodaran**  
Ex-UNEP International Energy Consultant  
For NGGFm Audit Team, dated 22 January 2022

**NGFm**  
Nature's Green Guardians Foundation  
Trivandrum 695 043 India

**Green Audit - Environment Quality Audit**  
Compliance Statement for AY 2020 - '21  
LISSAH College, Kaithapoyil, Kozhikode, 673 586 Kerala

Overall Objective	Main Objectives	Compliance Status
Ensure that an effective environmental protection plan is followed in the campus with the maintenance of highest level of air quality, and 3 R policy on waste management focusing on mitigation, adaptation and capacity building for Climate Change impacts resiliency, which is periodically reviewed and got implemented by all stakeholders.	1. Ensure that there is a competent Environment Expert from an external agency, who will provide guidance on Resource conservation, Waste management and Air and Water quality assurance.	Ensured guidance from NGGFm and CED - having international environment, transportation, and energy management experts
	2. Ensure that an Environment Protocol is adopted and followed by the campus community, adherence of which is reviewed annually.	Ensured. Green Protocol included in the Green Audit Report for 2020-21. (p. 13).
	3. Ensure that frequent training and awareness programs are chalked out and implemented, focusing on climate change resiliency, maintenance of air quality in the campus and students' living environment.	Ensured. Training given. Regular work experience also ensured.
	4. Ensure that every student and member of staff commits to the lowering of carbon footprint of the institution from all facets of energy use, including for transportation and mobility needs.	Commitment Ensured. [Vide p 13 - Green Protocol]
	5. Ensure that Environment Audit is conducted annually, necessarily with involvement of staff and students, and action taken on all recommendations arising out of it.	Infrastructure for environment quality assurance to be installed. Ensured. Environmental Audit conducted and actions initiated for the next year. [Vide GA Report Ch. 5]

**Prof. V K Damodaran**  
Ex-UNEP Expert  
For NGGFm Audit Team, dated 22 January 2022

Conducting green audits in the college area serves as a valuable tool. It helps the institution understand energy, water, and resource usage levels, facilitating necessary changes and ensuring effective green initiatives.

# ORGANIC FARMING MIYAWAKI FOREST



## Actions implemented to grow seasonal vegetables and establish a Miyawaki Forest





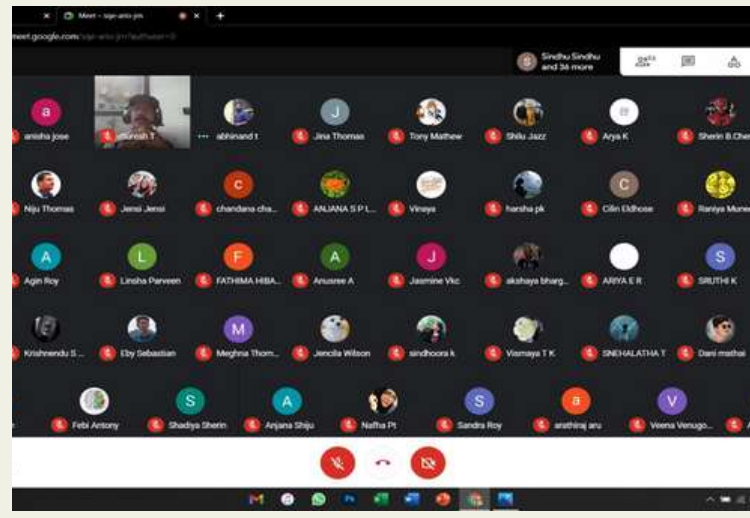


## **Herbal Garden and Environment Day Observation**





# Bio-Diversity Day Observation and sessions on the importance of environment



**LISSAH**  
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SOCIAL SCIENCES AND HEALTH

**22** MAY 2021

**A TALK ON THE  
OCCASION OF WORLD  
BIODIVERSITY DAY**

**ORGANIZED BY**  
**ALELA**  
(A Lissah Environment Lovers Association)

**IN ASSOCIATION WITH**  
**KERALA FOREST AND WILDLIFE  
SOCIAL FORESTRY EXTENSION  
DIVISION, KOZHIKODE**

**TIME: 10.00 AM**

**Platform-**

**Session Handled by**  
**Mr. T. SURESH**  
**SECTION FOREST OFFICER  
SOCIAL FORESTRY EXTENSION  
DIVISION, KOZHIKODE**

# GREEN ACTIVITIES



## Exhibition on Wild Life and Forest and Ozone Day Collage making Competition





# Choose To Reuse Campaign, Flash Mob at Public Bus Station & Public Pond Cleaning



## #CHOOSE TO REUSE

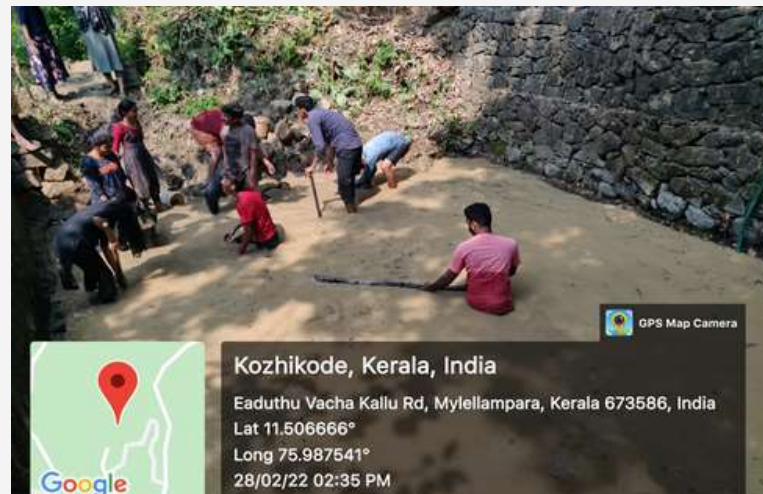


**NATIONAL SERVICE SCHEME  
LISSAH COLLEGE**

## #CHOOSE TO REUSE



**NATIONAL SERVICE SCHEME  
LISSAH COLLEGE**





# Eco-Restoration Drive at Kottooli

**പാരിസ്ഥിതികം 2021-22**

Technical and Financial Support by



**കേരള സർക്കാർ**  
പരിസ്ഥിതി ക്ലോബ്ബ് വൃത്തിയാക്കൽ വകുപ്പ്  
(Directorate of Environment and Climate Change, O&EC, Government of Kerala)

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**തണ്ണീർത്തടങ്ങളും നഗര ആവാസ വ്യവസ്ഥയും :  
തണ്ണീർത്തടങ്ങൾ - ആവാസ വ്യവസ്ഥയുടെ ഹൃദയ സരസ്സ്**

ഒരു വർഷക്കാലം നീണ്ടു നിൽക്കുന്ന കർമ്മ - ബോധവൽക്കരണ പരിപാടികൾ



**ഉദ്ഘാടനം**  
**ശ്രീ. തോട്ടത്തിൽ രവീന്ദ്രൻ എം.എൽ.എ**  
2022 ഏപ്രിൽ 20 ബുധൻ രാവിലെ 10 മണിക്ക്  
സരോവരം ബയോ പാർക്ക് (പ്രധാന കവാടം)



Centre for Water Resources,  
Development & Management  
(KSCSTE-CWRDM)



Malabar Botanical Garden and  
Institute for Plant Sciences  
(KSCSTE-MBGIPS)



Kerala Forests and  
Wildlife Department  
Social Forestry Division Kozhikode

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Volunteers Support  
NSS Unit No. 223 & STEPS  
LISSAH College, Kaithappoyil



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**മേഖല**

**ദർശനം സാംസ്കാരികവേദി**  
(www.darshanamsamskarika.org | 0465-2731010, 3581938 | www.darshanam.org)

**ഏവർക്കും സ്വാഗതം**

## Ecosystem restoration drive from tomorrow

### Programmes under 'Paristhithikam'

**STAFF REPORTER  
KOZHIKODE**

Darshanam Samskarika VEDI will partner with the Directorate of Environment and Climate Change of Government of Kerala to carry out various programmes under the title "Paristhithikam". The year-long programme is being held as the United Nations Environment Programme has declared the decade from 2021 to 2030 as the "Decade for restoration of the ecosystem".

The first event under Paristhithikam will be held on Wednesday by removing plastic waste from the Kottooly wetlands under the aegis of National Service Scheme volunteers of LISSAH College, Kaithappoyil. Thottathil Raveendran, MLA, will inaugurate the event at 10 a.m. at Sarovaram Bio Park, where a nursery of mangrove saplings will also be set up as part of the event. The planting will

ri in Kannur to compensate for the mangroves lost from Kottooly.

Secretary of Darshanam and coordinator of Paristhithikam in the district, M.A. Johnson said that only a small portion of the Kottooly wetlands is in the possession of the government while a majority is owned by private individuals. The ecologically sensitive area in the middle of the city is a liability for the owners, and hence, the land mafia was trying to get hold of it. There have been several incidents recently in which parts of the wetlands were filled using garbage and construction waste in an effort to convert it into normal land. "The only way to prevent this encroachment of the wetland is for the State government to acquire it completely", he said.

Darshanam is planning a variety of programmes during the year as part of Paristhithikam, including an



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# Solar Energy and LED Bulb Campaign



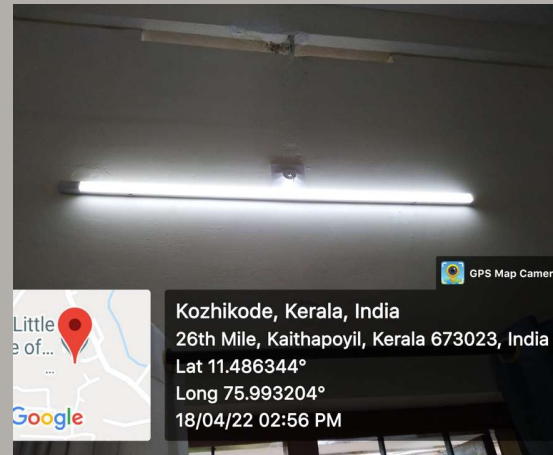
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Kozhikode, Kerala, India  
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Long 75.993078°  
18/04/22 02:42 PM

26th Mile, Kaithapoyil, Kerala 673023, India  
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LISSAH



## Incandescent Bulbs replaced with LED Bulbs and Tubes

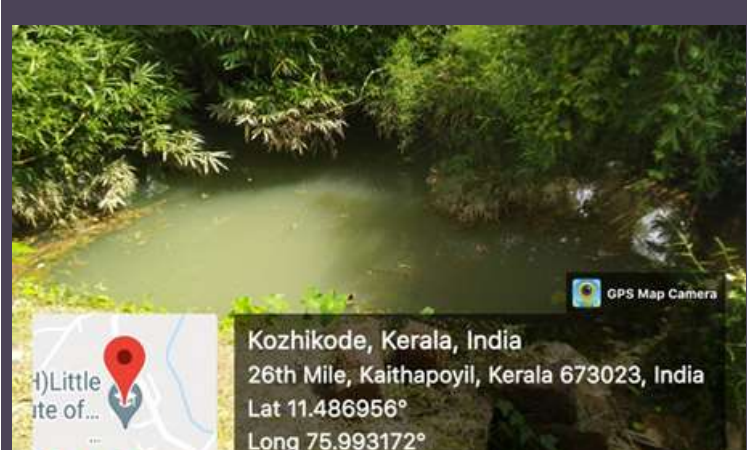


The institution has implemented a plan to transition from incandescent bulbs and fluorescent tubes to energy-efficient LED bulbs and tubes. Additionally, measures have been taken to utilize low-power-consuming appliances, aligning with the institution's commitment to energy conservation and sustainability.





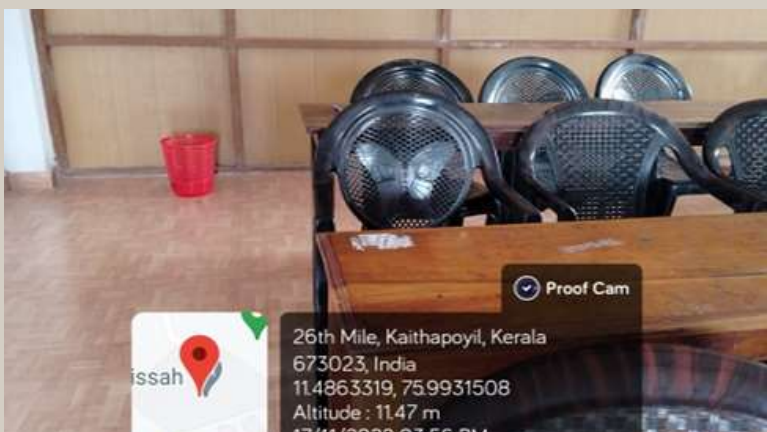
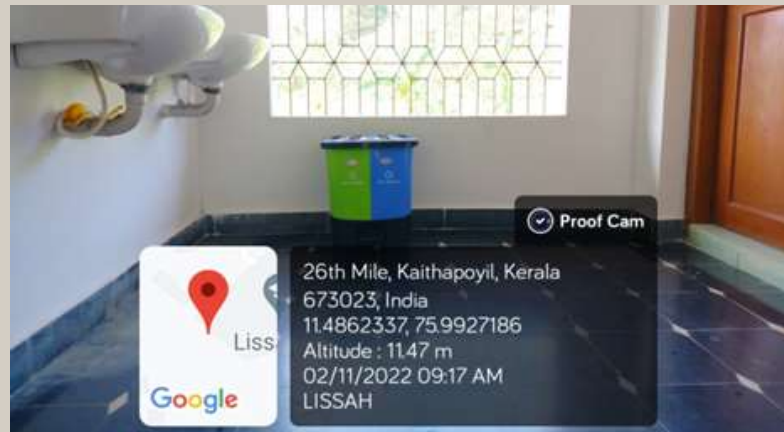
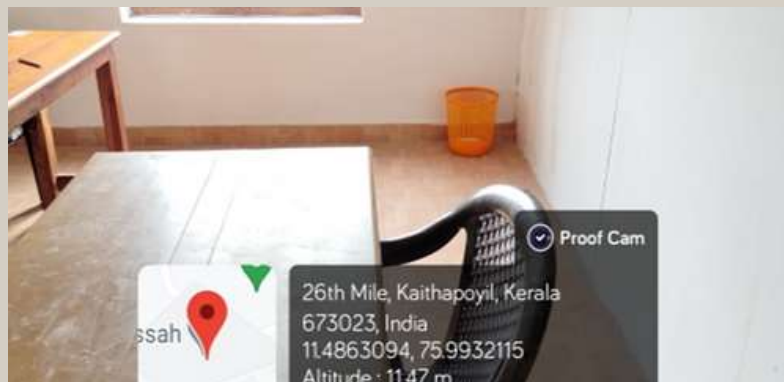
## Rain Water Harvesting Bunds, Ponds and Tanks







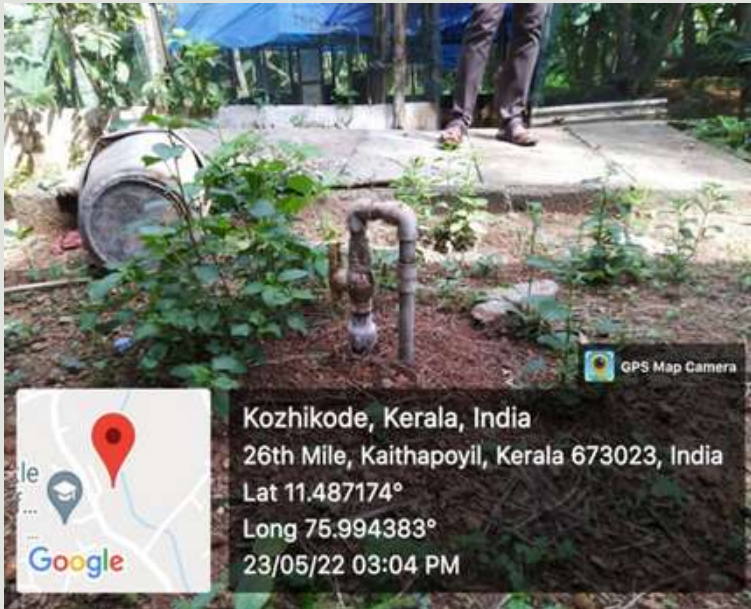
# Waste Management Solid Waste, Vermi Compost



# GREEN INITIATIVES

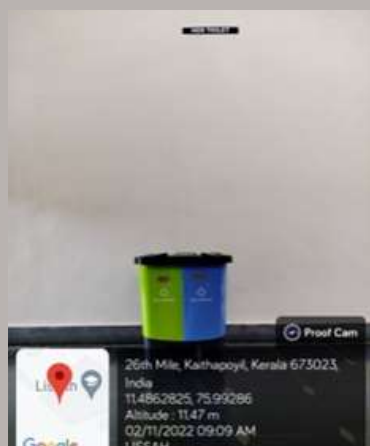
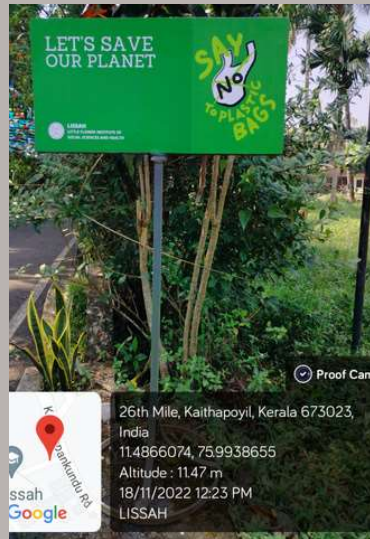
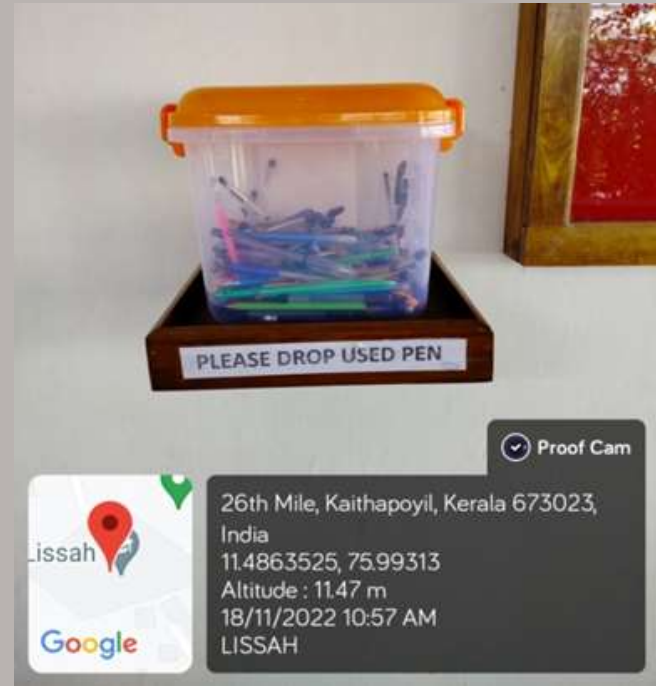
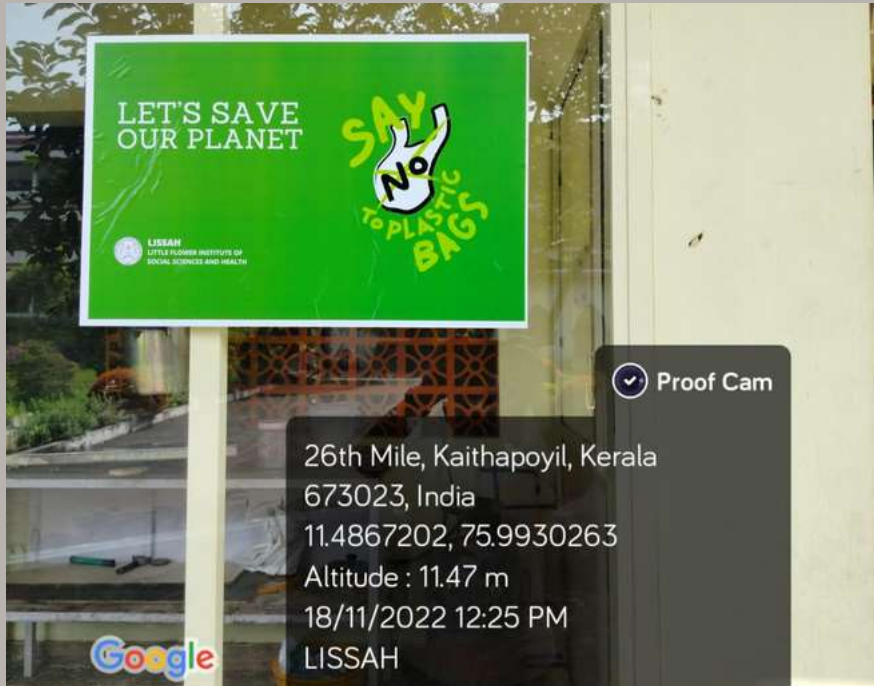


## Waste Management Drainages, Incinerator





## Posters in Visible Areas Non Bio Degradable Waste Collection



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