



2022-2023  
**ENVIRONMENT**  
**AUDIT REPORT**



MES PONNANI COLLEGE

# ENVIRONMENT AUDIT

2022-2023



## MES PONNANI COLLEGE

MALAPPURAM

KERALA

**C O N T E N T S**

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## ACKNOWLEDGMENT

We express our sincere gratitude to the management of MES College Ponnani for giving us an opportunity to carry out the project of Environment Audit. We are extremely thankful to the MES College for their support in carrying out the studies and for input data, and measurements related to the project of Environmental audit.

College Team Members

1. Dr. Riyas A
2. Dr. Sreejalakshmi S

Also, congratulate our environment audit team members for successfully completing the assignment in time and making their best efforts to add value.

Environment Audit Team

## GENERAL DETAILS

The general details of the MES College Ponnani are given below in a table based on the data availed from the college, between the Jan 2022 to March 2023. The data is based on the electricity bill, solar and diesel generated units, human resources, and finance department of the college.

**Table 1. General Details**

SL. NO	PARTICULARS	DETAILS
1	<b>Name &amp; Address</b>	MES College, Ponnani South, Malappuram—679586  0494-2666077  principal.mesponnani@gmail.com
2	<b>Contact person</b>	Dr. Ameera V.U
3	<b>No. of Employees</b>	110
4	<b>Building area (m<sup>2</sup>)</b>	
5	<b>Number of students (Nos)</b>	1700
	<b>No: of electrical Connections</b>	05
	<b>Annual energy consumption</b>	
	<b>Annual amount for electricity paid</b>	
7	<b>Annual Diesel Consumption (Litres) (Transport + DG)</b>	32293.71
8	<b>Annual Diesel generated units (kWh) (DG)</b>	6559

## DESCRIPTION OF SITE

The last five decades have witnessed a remarkable transformation in the educational status of Muslims in Kerala, supposedly the most backward in education. The driving force behind this effort has been M.E.S., the largest educational agency of the Muslim community in India having thousands of life members and hundreds of institutions. The movement started under the great leadership of late Dr. P.K. Abdul Gafoor in 1964 at Calicut, was supported by a large number of professionals and businessmen, and in a short span of time, it spread to all Districts, Taluks, and even to the Panchayaths in Kerala and other parts of India and abroad. As of today, it is the largest Muslim service organization in the country. It has also well-established units in Middle-East countries like Saudi Arabia, Qatar, Oman, Dubai, Abu Dhabi, Kuwait, etc. and still the organization is growing fast, extending its services further to reach every nook and corner of the world. MES is the largest corporate educational agency of Muslims in India, with more than 150 institutions including Medical College, Dental College, Engineering Colleges, College of Nursing, Arts and Science colleges, Training Colleges, CBSE schools, State syllabus Higher Secondary Schools and Industrial Training Centres with more than 60,000 students and around 15,000 employees. Hospitals, Orphanages, Old age homes, Special Schools for Mentally Challenged, Cultural complexes and various hostels draw up the broad canvas of the services offered and activities undertaken by the society. The idea of a college at Ponnani actually emanated from the brain of late Dr. P.K. Abdul Gafoor Sahib, while addressing a public meeting organized by M.E.S. Ponnani unit in 1967. In the keynote address, he unequivocally stated that M.E.S. was ready to start a College here at Ponnani, provided the Ponnani M.E.S. units mobilize the required land and 1 lakh rupees. It was a great source of inspiration for the energetic members of the Ponnani unit. They took it up as a challenge and managed to accomplish all the requirements within a short duration. A sprawling 32 acres of land was obtained from the government and they also raised an amount of 1.25 lakhs rupees by means of public contribution. The long-cherished dream thus became a reality when the college came into existence in 1968 under the patronage of M.E.S. President late Dr. P.K. Abdul Gafoor, Sri. E.K. Imbichi Bava and Sri. C.H. Mohammed Koya, being then the Ministers of Kerala. The college enjoys 2(f) and 12(B) status of UGC and is affiliated to University of Calicut. At present it provides higher education to more than 1400 students in five Post Graduate courses and nine Under Graduate courses. Among five Post Graduate departments, three departments are

recognized as Research Centres by Calicut University. There are 69 Teaching faculties and 25 Non-teaching staff in our college. The college was re-accredited by the NAAC at A+ level in November 2021. Ponnani lies on the western outskirts of Malappuram district. The college is situated in Ponnani municipal area and its campus stretches to the west side of Tippu Sultan road. This is the only higher education centre between Tirur and Guruvayoor in the coastal belt of Malappuram district. The National Highway 66, the K.S.R.T.C. bus depot and the private bus stand make commuting very easy for the students. Kuttipuram railway station is 18 kms towards northeast and Guruvayoor railway station in 29 kms towards south.

### **Vision**

To immortalize the legendary Ponnani wisdom and tradition, whilst assimilating the ever altering spirit and ingenuity of the academic firmament.

### **Mission**

To ensure the scholastic, social, and cultural emancipation and empowerment of people of the environs, especially of the fisher folk whose rights and privileges have been suppressed and trampled upon for centuries owing to historical, political, and social reasons.

### **Objectives**

We endeavor to fulfill the fair aspirations of all stakeholders and to disseminate the fame of institution as an epitome of excellence in all walks by setting the following objectives: -

- Developing a culture of equality, secular outlook, all-inclusiveness, and impartiality.
- Embracing innovative curricular, co-curricular, and extracurricular activities from the globalized world.
- Setting an exceptional academic ambiance ensuring the collaboration and contribution of all stakeholders.
- Promoting scientific temperament and rational thinking as envisioned in the Constitution of India.
- Empowering the vulnerable sections of the society through committed and unswerving program.

- Providing a life-oriented education to students, making them agents of transformation for the wellbeing of the Nation.

### **Core Values**

- Social Equity
- Ethical Justice
- Civic Responsibility
- Accountability and Transparency
- Intellectual Integrity
- Inclusive Employment



## Environment Audit

### Objectives

An environment audit is a systematic examination of an organization's activities, processes, and facilities to assess their impact on the environment and ensure compliance with environmental regulations. The goal is to identify areas where the organization can improve its environmental performance, comply with regulations, and implement sustainable practices. A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance. This innovative scheme is user-friendly and totally voluntary. Environmental awareness helps the institution to set environmental examples for the community and to educate young learners.

Waste management is the prime program of the institution. Students, faculties, and non-teaching staff are actively engaged in the proper clearance of waste in a scientific and eco-friendly manner.

### 1. Waste Management

Waste management in colleges is crucial for promoting environmental sustainability and ensuring a clean and healthy campus. Here are some key aspects to consider when implementing waste management practices in colleges:

#### **Waste Audits:**

Our college Conducted regular waste audits to understand the types and quantities of waste generated on campus. This helps in identifying areas for improvement and developing targeted waste reduction strategies.

#### **Source Separation:**

We encouraged source separation of waste at its origin. Provide clearly labeled bins for different types of waste, such as recyclables, organic waste, and non-recyclables. Raise awareness about the importance of proper waste disposal. Mainly we are categorized the wastes into biodegradable waste and biodegradable waste.

**Biodegradable wastes**

Biodegradable waste includes any organic matter in waste that can be broken down into carbon dioxide, water, methane, or simple organic molecules by micro-organisms and other living things by composting, aerobic digestion, anaerobic digestion, or similar processes. In waste management, it also includes some inorganic materials which can be decomposed by bacteria.

These materials are non-toxic to the environment and mainly include the natural substances only Plants and animals waste, even the dead plants and animals, fruits, paper, vegetables, etc. get convert into the simpler units, which further get into the soil and are used as manures, biogas, fertilizers, compost, etc.

The biodegradable wastes are mainly from the college canteen. The bio-slurry is used as manure to the plantation.

**College Canteen:** It is found that around 7 to 8 kg of biodegradable food waste is available per day and is fed in to compost pit and made into composted for gardening and for feeding into agriculture and trees.

Other wastes like those from the toilets are disposed through septic tank at locations situated away from water sources.

Here college is using portable Fiber Reinforced Plant for treating bio waste. The slurry coming from the plant is collected drums and reused after diluting with water for agriculture and for gardens. The methane gas is used by using separate biogas stove in the canteen for heating cold water to hot water which is used drinking and tea making.

**Non-biodegradable waste**

Non-recyclable wastes are collected and burned once in a month using incinerator places inside the campus itself. The recyclable wastes are sorted out into categories and supplied it to the collecting units.

Materials that remain for a long time in the environment, without getting decompose by any natural agents, also causing harm to the environment are called non-biodegradable substances. These materials are metals, plastics, bottles, glass, poly bags, chemicals,

batteries, etc. But as these are readily available, convenient to use, and are of low cost, the non- biodegradable substances are more often used. But instead of returning to the environment, they become solid waste which cannot be broken down and become hazardous to the health and the environment. Hence are regarded as toxic, pollution causing and are not considered as eco- friendly

. Many measures are taken these days, concerning the use of non-biodegradable materials. The three 'R' concept which says Reduce-Recycle -Reuse is in trend, which explains the use of the non-biodegradable materials. As we already discuss that these substances do not decompose, or dissolve easily so can be recycled and reuse. And one can help in reducing this waste by instead of throwing the plastics and poly bags in the garbage; it can be put in the recycling bags to use again.



Figure 1. Incineration for Waste Management

**Composting:**

Implement composting programs for organic waste generated in campus cafeterias, gardens, and other relevant areas. The resulting compost can be used for landscaping or other sustainable purposes.

**Electronic Waste Management:**

Develop a system for the proper disposal of electronic waste (e-waste), such as old computers, printers, and other electronic devices. Ensure that e-waste is recycled or disposed of in an environmentally responsible manner. Electronic waste or e-waste describes discarded electrical or electronic devices. E-waste or electronic waste is created when an electronic product is discarded after the end of its useful life. The rapid expansion of technology and the consumption-driven society results in the creation of a very large amount of e-waste in every minute used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. Informal processing of e-waste in developing countries can lead to adverse human health effects and environment pollution certain components of some electronic products contain materials that render them hazardous, depending on their condition and density.

**Reduce** your generation of e-waste through smart procurement and good maintenance.

**Reuse** still functioning electronic equipment by donating or selling it to someone who can still use it.

**Recycle** those products that cannot be repaired. Computer monitors, televisions and other electronic equipment should NOT be disposed of with regular garbage, as this is illegal in California. To find an organization that will manage your electronics for recycling.

**Educational Initiatives:**

We have conducted awareness campaigns and educational programs to inform students and staff about the importance of waste reduction, recycling, and proper waste disposal. Engage the campus community in sustainability efforts.

**Waste Reduction Policies:**

Implement policies that promote waste reduction, such as minimizing paper usage through digital communication, encouraging double-sided printing, and reducing unnecessary packaging in campus facilities.

**Partnerships with Local Communities:**

Collaborate with the Ponnani Municipality we have managing the wastes effectively.

**Monitoring and Evaluation:**

Regularly monitor and evaluate the effectiveness of waste management initiatives on campus. Use feedback and data to make improvements and adjustments to the waste management system.

**Laboratory Wastes:** Laboratory wastes generated by conducting experiments especially in chemistry is neutralized then and their itself and after final checking of PH values feeding into common drain with sufficient water for dilution.

**Dustbins on the premises**

In our college campus all the laboratories, cabin and corridor are having dustbins. Laboratories are having separate dustbins for dry and wet wastage. The use of dustbins maintains garbage free campus.

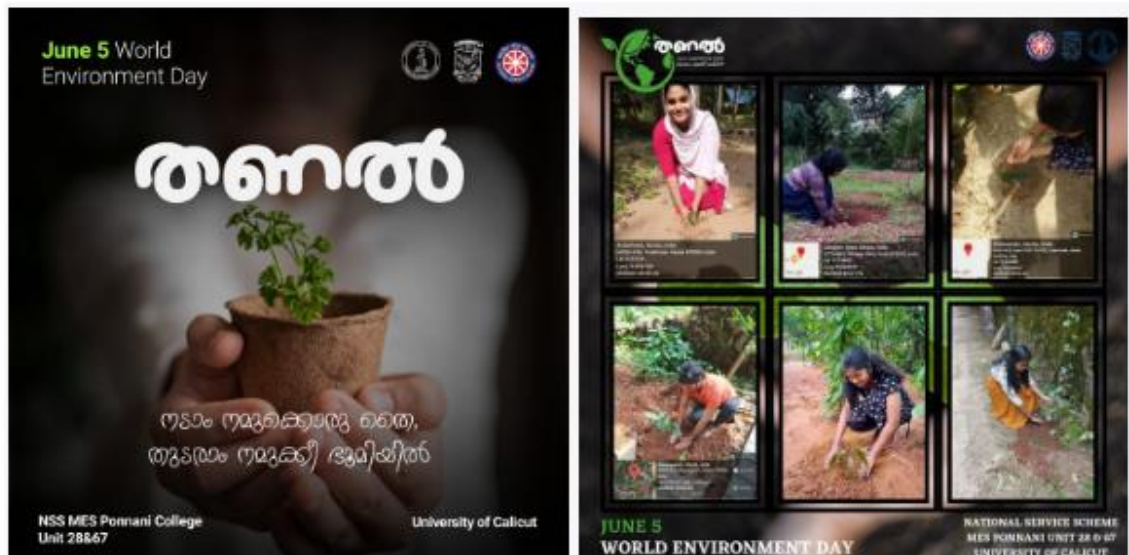
**No uses of plastic in canteen**

Our canteen uses paper plates, newspapers, utensils to control the use of plastic on the college campus. It has helped in keeping the campus plastic free.

## 2. Students Activities

### ❖ TREE PLANTATION ON WORLD ENVIRONMENT DAY

In Connection With World Environment Day National Service Scheme MES Ponnani College Unit 28 & 67 Conducted Various Programs. With the Motto " രണൻ - നടം നമുക്കൊരു തെ തുടരാം നമുക്കു ഭൂമിയിൽ" about 100 saplings were planted in the houses of NSS volunteers.



### ❖ ENVIRONMENTAL DAY OBSERVATION

NCC MES Ponnani College Unit organized a green campaign on the occasion of World Environment Day on 5<sup>th</sup> June 2022. They planted a few trees in the college and distributed trees to NCC cadets. NCC cadets planted saplings in different corners of the college and they took oath. NCC cadets participated in a cleaning drive on the college campus and conducted an awareness program on plastic waste and its impacts on the earth. All the cadets and faculty members have participated with full energy in this program.

MES\_ncc\_pni\_unit

Happy World  
**ENVIRONMENT DAY**

Inauguration : Dr AMEERA V U  
Environmental message : Dr THOUFEEQ RAHMAN  
**programs**  
\* college cleaning  
\* Tree plantation  
\* Article writing

**DEBATE CORNER**

"Only One earth Care & Share"

MES PONNANI COLLEGE  
4 COY NCC ARMY WING  
28(K)BN NCC

MES\_ncc\_pni\_unit

MES PONNANI COLLEGE  
4 COY NCC ARMY WING  
28(K)BN NCC





❖ **BEACH CLEANING ON WORLD OCEAN DAY**

In association with World Ocean Day, the college NSS group has cleaned the Ponnani beach and the nearby areas and did an awareness campaign to the coastal peoples about the importance waste management.



❖ **TREE PLANTATION DRIVE COCONUT TREE FARMING (18/7/22) –**

The club observed coconut plantation drive in the campus. The sandy soil of the campus is so congenial to the growth of coconut trees. In view of that the club in collaboration with the NSS unit procured 100 coconut saplings and planted in different parts of the campus.





❖ **OBSERVANCE OF AZADI KA AMRIT MAHOLSAV (12/08/2022)**

Flamingo Nature Club, in connection with the National celebration of AZADI KA AMRIT MAHOLSAV, held a one week long CAMPUS TREE PLANTATION PROGRAMME. The programme was inaugurated by famous malayalam writer M S Madhavan. MES State President Prof Kadavanad Muhammed and college correspondent Prof. Sagir Khadri were present in the function. All dignitaries planted trees in the newly set campus park titled as “AZADI PARK”. All Nature club volunteers also took part in the programme and planted their own favorite trees in the stipulated area.

**OBSERVANCE OF AZADI KA AMRIT MAHOLSAV (12/08/2022)**



***Famous malayalam writer N S Madhavan, inaugurating the Campus park "AZADI PARK" by planting trees. Standing side– Prof Kadavanad Muhammed, MES State president, and Prof Saghri Kadri, MES correspondent***



***Flamingo Nature club volunteers gathered for tree plantation, Programme posture***

❖ **PLASTIC ERADICATION CAMPAIGN (29/11/22)**

Indiscriminate disposal of plastic waste is one of the menaces addressed by the campus. Under the initiative of Nature club volunteers, in collaboration with college union the club conducted a mass scale plastic waste disposal and awareness programme for the students. As a part of this, volunteers engaged in campus cleaning and awareness programme. Student Secretary Thanveer and Joint Secretary Fermisha supervised the programme.

 <p>Ponnani, Kerala, India QW7G+H58, Nibras, Ponnani, Kerala 679584, India Lat 10.764015° Long 75.925637° 29/11/22 04:01 PM GMT +05:30</p>	 <p>Ponnani, Kerala, India Amir Block, MES Ponnani College, National Highway 17, Nibras, Ponnani, Kerala 679584, India Lat 10.764139° Long 75.925679° 29/11/22 04:02 PM GMT +05:30</p>
<p><b>Initiatives of Flamingo Nature club – for plastic free campus (29/11/22)</b></p>	<p><b>Student volunteers in action</b></p>
 <p>Ponnani, Kerala, India QW7G+H58, Nibras, Ponnani, Kerala 679584, India Lat 10.764032° Long 75.925627° 29/11/22 04:12 PM GMT +05:30</p>	 <p>Collage Ponnani, Kerala, India Main Block, MES Ponnani College, Nibras, Ponnani, Kerala 679584, India Lat 10.764664° Long 75.926008° 14/09/22 02:20 PM GMT +05:30</p>
<p><b>Plastic threat awareness campaign</b></p>	<p><b>Class campaign on 14/9/22</b></p>

❖ **REDUCING, REUSING, AND RECYCLING PLASTIC**

Accumulation of plastic objects and particles in the Earth's environment adversely affects humans, wildlife, and their habitat. Reducing, reusing, and recycling plastic is the most sustainable way to reduce plastic waste. Aware of this, the cadets of the NCC MES Ponnani College Unit collected plastic bottles, covers, etc. from houses and premises on 15<sup>th</sup> December 2022. By using these used materials NCC cadets created many things using their own ideas. We were able to make about 20 items from this plastic. They mostly made home decor items and it was a good experience to them.



## CONCLUSIONS

Environment audit is a best practice to analyze and solve the critical issues of waste management. Environment audit can add value to the management approach being taken by the college for identifying, collecting, segregating, and processing waste generated on the college campus. Analyzing the waste generation in each segment such as biodegradable, non-degradable, waste, etc. indicated waste generation and thus put control for the same to reduce the environmental impacts in due course.

The findings in the report show that the college performs fairly well in waste management issues and has made considerable efforts responsibly. During the audit and the conversations with the college team, we observed that MES Ponnani has taken various approaches in the past few years to perform well in a sustainable environment. Even though there is space for further improvement that is mentioned in the executive summary.