SUMMARY REPORT

GREEN AUDIT

OF

GMLP SCHOOL, KUMMINIPARAMBA

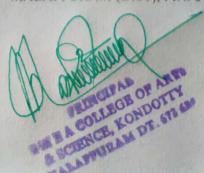
An Extension Programme of



DEPARTMENT OF BIOTECHNOLOGY EMEA COLLEGE OF ARTS AND SCIENCE

Re-accredited with 'A' grade by NAAC (Aided, affiliated to University of Calicut) KONDOTTY, P.O. KUMMINIPARAMBA MALAPPURAM (DIST), PIN. 673 638







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GMLP SCHOOL, KUMMINIPARAMBA



ON - 29.03.2022

An extension programme of

DEPARTMENT OF BIOTECHNOLOGY EMEA COLLEGE OF ARTS AND SCIENCE

(Reaccredited with 'A' grade by NAAC)
Kondotti, Malappuram (Dt) Kerala, Pin-673638

In Collaboration With

PALLIKKAL GRAMA PANCHAYATH

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MANCHESTER ARTS AND SPORTS CLUB
KUMMINIPARAMBA





EMEA COLLEGE OF ARTS AND SCIENCE



MANCHESTER ARTS AND SPORTS CLUB



PALLIKKAL GRAMA PANCHAYATH







MARCH 2022 29

AN EXTENSION PROGRAMME OF

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MANCHESTER ARTS AND SPORTS CLUB
KUMMINIPARAMBA

In association with IQAC

Ms. Naseera Kannanari

Ward Member Pallikkal Grama Panchayath CO-ORDINATORS

Dr. Mashhoor K

Head, Dept. of Biotechnology EMEA College of Arts and Science Mr. Mansoor

President, Manchester Arts & Sports Club

Flyer of the Program

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1. Background and Need Assessment

The process of Green Auditing aims at accessing the present environmental settings and to inculcate the habit of environment-friendly living among the students. With the above objective the Pallikkal Gramapanchayath, Ward 7 Member has requested to the Biotechnology Department of EMEA College of Arts and Science, Kondotty to conduct a green audit in GMLP School, Kumminiparamba. The Biotechnology department decided to involve students in the process, in order to give them a sense of eco-friendly living. The term "Green" means eco-friendly or not damaging the environment. This is called as "Global Readiness in Ensuring Ecological Neutrality" (GREEN).

"Green Auditing", an umbrella term, is known by another name "Environmental Auditing". Green auditing is the systematic identification, quantification, recording, reporting, and analysis of various establishments' environmental diversity components. Its goal is to examine environmental practises both inside and outside of the concerned sites that have an impact on the environment.

A green audit can help an institution to figure out how and where they're wasting the most energy, water, and resources, so they can figure out how to make adjustments and save money. It can also be used to determine the type and volume of garbage, which can be helpful in planning a recycling project or improving a waste minimization strategy. It has the potential to raise health awareness while also promoting environmental awareness, morals, and ethics. It gives staff and students a greater knowledge of the campus's environmental impact. If self-inquiry is a natural and necessary part of a good education. Institutional self-inquiry may be said to be a natural and necessary part of a good educational institution. As a result, it is critical that the institution assess its own contributions to a long-term future. The function of educational institutions in connection to environmental sustainability is growing more widespread as environmental sustainability becomes an increasingly crucial issue for the nation.

That is the only way to keep the planet safe. It is vital to conduct a green audit on college campuses because students are aware of green audits, their benefits in saving the environment, and their potential to become good citizens of our country. Green

auditing and the 16-development process assist to reduce waste and associated costs while also improves the product quality. Obviously, there is a link between a green audit and a company's long-term success. Determine the Green Audit policy, Green Audit Framework, Accurate execution, and Result analysis are the most important requirements for ensuring the business's long-term success. A robust Green Audit process can aid in achieving long-term sustainability. The Green Audit Framework helps organizations achieve their goals. Green audits relate to the process of sustainable development. Green audits and sustainable development processes help reduce waste and associated costs and improve product quality.

In recent years, a Green Audit of an institution has become increasingly crucial for self-assessment of the institution's involvement in alleviating current environmental challenges. Many organisations take several positive steps to address these issues, but these efforts are not documented due to a lack of green documentation awareness. All of the administration's non-academic activities go a long way towards ensuring the campus's green quotient, remains intact.

2. Audit Team

The audit was conducted with the active involvement of teachers and students of the Department of Biotechnology, EMEA College of Arts and Science, Kondotty. For the identification of species, the service of a taxonomist was availed.

Details of faculty members are given in the following table.

Sl. No.	Name of Members	Department
Faculty	Members	
1.	Dr. Mashhoor K	Biotechnology
2.	Ms. Shilly Das A	Biotechnology
3.	Dr. Somy Soman	Biotechnology
4.	Ms. Rameesa K	Biotechnology

3. Objective of Auditing

Since this green audit is conducted by educational institutions, the main purpose of this audit is to create a community with a sense of environmental protection for sustainable living and enable them to make better deliveries. To evaluate the school systems and facilities and also it is acts as road to the environment for the next generation. Therefore, the main objectives of the Green Auditing are

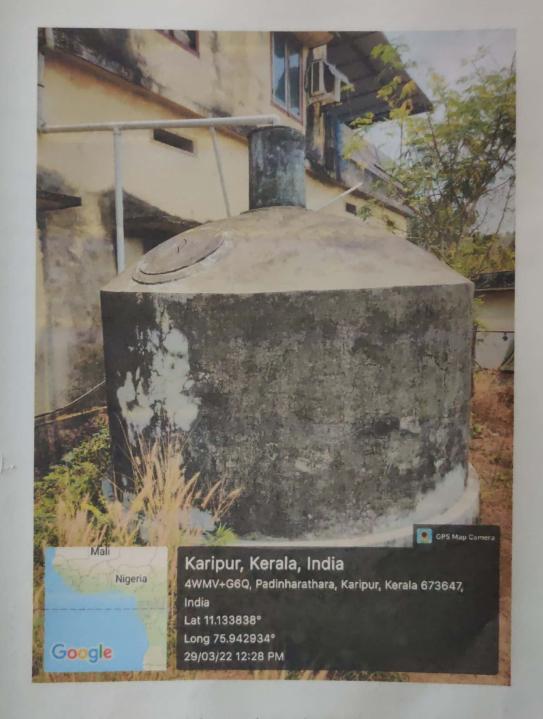
- 1. Protection activities within the campus.
- 2. To assess the status of solid and liquid waste management activities in the campus.
- 3. To evaluate preliminary status of water, air and natural environment
- 4. To create a sense of eco-friendly living among the students in order to guide them to live in an eco-friendly manner.
- 5. To assess level of energy conservation activities in the Campus.
- 6. To assess the social activities undertaken by the students related to environmental protection.
- 7. To make Campus a more environmentally sustainable and eco-friendly institution in the future.

4. ECO-FRIENDLY ACTIVITIES UNDERTAKEN IN THE SCHOOL

Rain Water Harvesting Activities

Rain water harvesting is a well-known system for water conservation. GMLP School, Kumminiparambu is situated in the Pallikkal village of the Kondotty taluk in Malappuram district, the area needs proper rainwater storage during summer seasons. The school has purposefully maintained a water storage tank which having 20,000 litre water holding capacity. Due to this activity, the school has succeeded in keeping the

ground water table at higher levels during summer season. Thereby there is no need of bringing drinking water from outside sources using tanker Lorries. Another effort taken by the school is the establishment of water purifier in the campus for meeting drinking water needs of the students.



Rain water harvesting Tank



Water purifier

Solid Waste Management Activities in the Campus:

The school has given importance for proper management of Solid and liquid waste generated in the campus. In the case of solid waste, especially easily biodegradable waste (Food Waste), there is a system of storage of waste at the source of generation. Biodegradable type of solid waste is also being collected from different part of the school Campus and Buildings and transported in to a biogas plant installed inside the campus. Here the campus is imparting natural way of composting.



Biogas plant setup for solid waste (food waste) management

To deal with disposal, collection and removal of waste, school have installed bins for organic, plastic and general wastes. Source level segregation and storage facility is made available in the Campus. The school has also maintained a paper incinerator for the elimination of waste paper without any hazardous residue.



Waste bin



Facility for the disposal of papers

Liquid Waste Management Activities in the Campus

Liquid wastes are mainly generated from toilets and bathrooms in the school. There is a proper system for segregated collection of Black Water from Toilets and Kitchens. Black water from toilets of being collected, treated and disposed of utilizing proper Septic Tank and Soak Pit system constructed in the Campus



Environmental Beautification

Even though the school has less campus, which is maintained with various plants. Local trees like Coconut, Jackfruit and Mango trees are planted within the campus for giving shade and greenery environment in the Campus.









Transportation

The majority of students and staff use school buses and public transport to minimize the use of private vehicles to travel. To collect students, there are school buses that efficiently cover almost all areas of the school. The rest use public transportation for their travel needs. This shows that we are meeting our goal of reducing the carbon footprint of students in the transportation sector.



BIODIVERSITY IN THE CAMPUS

Analysed the flora and fauna of the campus and analysed data as tabulated below.

Checklist for Biodiversity Study conducted

Checklist of Flora observed in the campus:

SI NO.	COMMON NAME	SCIENTIFIC NAME
1.	4 'o'clock plant	Mirabilis jalapa
2.	Papaya	Carica papaya
3.	Chandada	Macranga peltata
4.	Mission grass	Pennisetum polystachion
5.	Devil tree	Alstonias cholaris
6.	Banana tree	Musa paradisiaca
7.	Mountain knotgrass	Aerva lanata
8.	Common wireweed	Sida acuta
9.	chilli	Capsicum annuum
10.	Drumstick tree	Moringa oleifera
11.	Tapioca	Manihot esculenta
12.	Node weed	Synedrellan odiflora
13.	Pancoli	Phyllanthus reticulatus
14.	Curved flower woody chassalia	Chassalia curviflora
15.	Wild hibiscus	Hibiscus hispidissimus
16.	Gulmohar	Delonix regia
17.	West indian lantana	Lantana camara
18.	Mango tree	Mangifera indicaL
19.	Brinjal	Solanum melongena

Checklist study of Invertebrate Fauna observed

SI NO	COMMON NAME	SCIENTIFIC NAME	
Order :	Lepidoptera (Butterflies)		
1	Common Tiger	Danaus Chrysippus	
2	Common Rose	Pachliopta Aristolochiae	
3	Common crow	Euploea core	
4	Common Jezibel	Delias eucharis	
5	Common bush brown	Mycalesis perseus	
7	Common mime	Papilio clytia	
8	Common Indian Crow	Danmini tribe	
9	Crimson jose	Pachliopta hector	
10	Blue tiger	Tirumala limniace	
Order :	Hemiptera (Bugs)		
THE RESERVE	Mealybug	Planococcus citri	

	Common grass hopper	Omogod
2	Cockroach	Omocestus viridulus
		Periplanata americana
Ord	ler: Hymenoptera (Bees, was)	p and ants)
1	Honey bee	Apis cerana
2	Carpenter bee	Xylocopa violacea
3	Oriental hornet	Vespa orientalis
Oro	House fly	Musea
1	Yellow fever mosquito	Musca domestica
2	Fruit fly	A edes aegypti Drosophila melanogaster
1	Rhinocerose beetle	Oryctes rhinoceros
Phy	dum Arthropoda; Class: Arac	
Dhy	hum · Arthropoda	
Phy	dum: Arthropoda	
	Red headed centipede	Scolopendra morsitans
1		
1 2	Red headed centipede	e Harpaphe haydeniana
1 2 3	Red headed centipede Yellow spotted milliped	Harpaphe haydeniana Archanura angora
1 2 3	Red headed centipede Yellow spotted milliped Oral web browser spide	Harpaphe haydeniana Archanura angora
1 2 3 Phy	Red headed centipede Yellow spotted milliped Oral web browser spide Vlum : Annelida; Class: Oligoo	Harpaphe haydeniana Archanura angora chetae Megascolex mauritii

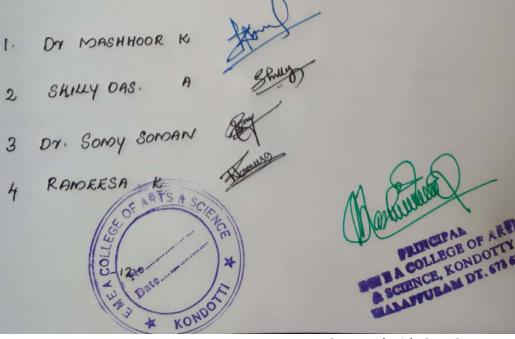
Checklist study of Vertebrates fauna Observed

Class	:Amphibia (Frog and toads)	David tampowania
1	Common frog	Rana temporaria
2	Common toad	Bufo bufo
Class	D 491	
	Reptilia	Calotes versicolor
1.	Garden Lizard	
Class	:Aves (Birds)	
		Corvus splendens
1	House crow	Acridotheres tristis
-		

	Pigeon	Columba livia	
t	Common kingfisher	Alcedo atthis	
	Indian pond heron	Ardeola grayii	
12	nmmalia		
18	ammalia Five striped palm squirrel	Funambulus pennantii	
12		Funambulus pennantii Mus musculus	

Study findings

The institute adopts good practices in environmental protection and waste management. A wide variety of plant species were found within the campus, including herbs, shrubs, trees, and medicinal plants. We also classified all fauna into invertebrates and vertebrates. As usual, invertebrates predominated the most. Insect fauna and avian fauna deserve much attention in studies as they are the most dominant. The invertebrate fauna is in the order Lepidoptera, Dragonflies, Orthoptera, Hemiptera, Pterae, Diptera, Coleoptera, Hymenoptera and Annelida, Mollusca and Arthropoda. vertebrates were represented by amphibians, reptiles, birds and mammals. Long-term sustainability is sorely needed, as research reports show that this campus appears to be the ultimate tribute to a wide variety of species.



നസീറ കണ്ണനാരി

മെമ്പർ (വാർഡ് 7) പള്ളിക്കൽ ഗ്രാമപഞ്ചായത്ത് പള്ളിക്കൽ. പി.ഒ. മലപ്പുറം 673634 ഫോൺ: 0483 2790114 Email: pallikkalgp123@gmail.com



നമാസ് പി.ഒ. കുമ്മിണിപറമ്പ് മലപ്പുറം, 673638 ഫോൺ: 9846188040

Ref:

Date:....01:02:2022

To

Dr. Mashhoor K

Assistant Professor and Head,

Department of Biotechnology,

EMEA college of Arts and Science, Kondotty.

Respected sir,

I am writing this letter to seek your willingness to carry out a **Green Audit** of GMLP school, Kumminiparambu in my ward No.7, pallikkal panchayat. We believe a biodiversity study would definitely help us for further development of the school. Manchester Arts and sports club, Kumminiparambu have expressed their willingness to collaborate with this programme. Kindly consider this and do the needful.

Thanking you

കണ്ണനാരി നസീറ മെമ്പർ വാർഡ്–07 പള്ളിക്കൽ ഗ്രാമപഞ്ചായത്ത്

പള്ളിക്കൽ പി.ഒ. 673634

Copy to: President, Manchester Arts and Sports Club

LIST OF STUDENTS

ENROLMENT REGISTER

S.No.	Name	Gender	Class	Sign
1.	NEETHU.P	Female	III Year BSc BT	Medhy
2.	AFEEFA SHERIN MM	Female	III Year BSc BT	AFEITH
3.	MOHAMMED HASSANAIN	Male	III Year BSc BT	uddown
4.	FATHIMA NITHA	Female	III Year BSc BT	A
5.	SALVA BATHOOL.P	Female	III Year BSc BT	80
6.	FATHIMA SHABNA K	Female	III Year BSc BT	Poille
7.	HASLA P	Female	III Year BSc BT	Hall
8.	SUHARA SANIYA	Female	III Year BSc BT	XXX
9.	LIHANA RAFEEQUE. KK	Female	III Year BSc BT	Rate
10.	RIFA LATHEEF.C	Female	III Year BSc BT	80
11.	MUHAMMED RAYYAN P	Male	III Year BSc BT	Bayett
12.	SHABEEBA NASHARI	Female	III Year BSc BT	Machael
13.	FATHIMA FIDHA M	Female	III Year BSc BT	30
14.	MUHAMMED ASLAM	Male	III Year BSc BT	Adm
15.	ARSHAD MUHAMMED KP	Male	III Year BSc BT	1
16.	MUHAMMED FARIS M	Male	III Year BSc BT	pur
17.	AYISHA NIHALA E	Female	III Year BSc BT	Addito
18.	SANA M	Female	III Year BSc BT	Salar
19.	NAJWAH ANAPRA	Female	III Year BSc BT	1
20.	NIHALA SHIRIN PP	Female	III Year BSc BT	M
21.	AFNA C	Female	III Year BSc BT	- Ara
22.	NIDHA JASMIN PULLAT	Female	III Year BSc BT	Teens
23.	ANAGHA P	Female	III Year BSc BT	A
24.	HUSNA A	Female	III Year BSc BT	Husha
25.	ANJANA M K	Female	III Year BSc BT	Amanal.
26.	BIJOY K P	Male	III Year BSc BT	BARRE
27.	BINJU SARIYA T	Female	III Year BSc BT	3ht 1
28.	ADITH V	Male	III Year BSc BT	CAR
29.	DANISH FASIL P	Male	III Year BSc BT	Dans
30.	SHIFA SHERIN	Female	III Year BSc BT	Della



31.	NAJVA MOIDEEN	Female	III Year BSc BT	Manham
32.	AFEENA K	Female	III Year BSc BT	Am
33.	SHANIBA SHERIN P	Female	III Year BSc BT	Short .
34.	NADHA JASMIN N K	Female	III Year BSc BT	
35.	ANSHID P	Male	III Year BSc BT	arsto.
36.	SAFNA ABDUL GAFOOR	Female	III Year BSc BT	Sahrabdulgahog
37.	FATHIMA SURAYYA E	Female	III Year BSc BT	Surmyers
38.	ADITHYA P	Female	III Year BSc BT	
39.	SHAMEEMA THASNI PP	Female	III Year BSc BT	Barrena
40.	JUBILA P	Female	III Year BSc BT	dayson
41.	NIYALJITH K C	Male	III Year BSc BT	A
42.	JABSHIRA RISHIN	Female	III Year BSc BT	Carpanus





