VISION : Enlightenment Through Education, Strength Through Organization.



ACCREDITED BY NAAC WITH 'A' GRADE (AFFILIATED TO KANNUR UNIVERSITY) Sree Narayana College Kannur, P.O. Thottada, Kannur,Kerala , India - 670 007 sncollegekannur@gmail.com (© 0497 - 2731085 () www.sncollegekannur.ac.in



7.1.3 DVV CLARIFICATIONS

1. **Quality Audits on Environment and Energy:** Attached the Green Audit / Environment Audit certificates and report highlighting the content of Carbon dioxide (Co2), Sulphur dioxide (So2) etc. present within the campus. Energy Audit Certificate and report submitted by Auditing agency , highlighting the payload, load distribution, Energy consumption by the electrical appliances etc. and the auditing from the government / government recognized organization. Audit conducted by Department of Environmental Science, Kannur University.

2. Action Taken Report and Achievement Report: Submitted action taken reports and achievement reports for clean and green campus initiatives along with Geo-Tagged Photos with caption and dates.

3. Submitted ample evidences such circular, report, attendance sheet Geo-tagged photos with date and caption, newspaper clipping (if any) for beyond the campus environmental promotion activities.

SN COLLEGE KANNUR 2024



SREE NARAYANA COLLEGE, KANNUR



Environment Audit Report

(Green audit, Energy audit & Water audit) (Assessment Year 2021-2022)

Prepared & submitted by



Department of Environmental Studies Kannur University Mangattuparamba campus, Kannur - 670567

MARCH 2022



SREE NARAYANA COLLEGE, KANNUR

Environment Audit Report

(Green Audit, Energy Audit & Water Audit)



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MARCH 2022

(NAAC Accredited with B grade) DEPARTMENT OF ENVIRONMENTAL STUDIES Mangattuparamba Campus Kannur University (PO); Mangattuparamba, Kannur, Kerala - 670567 Tel: 0497 2781043; E-mail : hodevs@kannuruniv.ac.in

CERTIFICATE

This is certified that this Environment Audit Report (Green audit, Energy audit and Water audit) submitted to the Sree Narayana College, Kannur is an authentic report of Environmental audit done by the Audit Team of the Department of Environmental Studies of Kannur University at Sree Narayana College, Kannur during the period from 22nd to 27th March 2022.

Dr. Pradeepan Periyat

HEAD DEPT. OF ENVIRONMENTAL STUDIES KANNUR UNIVERSITY MANGATTUPARAMBA, KANNUR KERALA-670567

Place: Mangattuparamba Date: 30/03/2022





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> Dr. MANOJ. K Coordinator Consultancy Division Department of Environmental Studies Kannur University

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CONTENTS

Chapter No.	Title	Page No.
Ι	INTRODUCTION	1
II	ENVIRONMENT AUDIT	14
III	GREEN AUDIT	20
IV	ENERGY AUDIT	34
V	WATER AND WASTE AUDIT	45
VI	CONSOLIDATED STATEMENT OF AUDIT FINDINGS	51
VII	CONCLUSION AND RECOMMENDATIONS	53

Chapter I INTRODUCTION

I.1. Sree Narayana College, Kannur – at a glance:

Sree Narayana College, Kannur is one of the biggest institutions of higher education in Kannur District. The Sree Narayana Trusts, Kollam, established the college in honor of His Holiness Sree Narayana Guru, the great saint and social reformer of Kerala. The late Sri. R. Sankar, the founder manager, took the lead in establishing a group of establishments under the name Sree Narayana Guru. On July 6, 1960, the late R. Sankar, the then Kerala chief minister, formally inaugrated this college. From being a junior college, it has developed into a fully functional post-graduate institution with research centers connected to its graduate programs in chemistry, commerce, and zoology. Nearly two thousand students receive education at the undergraduate and graduate levels in a variety of arts, science, and commerce streams from this Kannur University affiliated college.

This college is located near Thottada, on a tranquil twenty-acre campus named "Govardhan Giri," approximately six kilometers south of Kannur town. The late Haridas Govardhandas Khimji gave Govardan Giri for this purpose. To handle its immediate requirements, the college has a Regional Development Council (R.D.C.) led by a president. Successive R.D.Cs. have contributed significantly to the enhancement of the college's numerous infrastructure facilities. Over the course of its many years of functioning, the institution has been able to significantly contribute to the social, cultural, and educational advancement of the home district. Owing to the efforts of its students, faculty, and patrons, the college has established a reputation for exceptional achievement in both its extracurricular and academic programs.

GOVERNING BODY OF THE COLLEGE

- 1. DR. M.N. SOMAN (Chairman)
- 2. MR. VELLAPPALLY NATESAN (Gen. Secretary)
- 3. MR. V.N. THUSHAR
- 4. DR. G. JAYADEVAN
- 5. MR. AJI. S.R.M
- 6. MR. MOHAN SANKAR M.
- 7. MR. N. RAJENDRAN
- 8. MR. K. PADMAKUMAR
- 9. MR. A. SOMARAJAN
- 10. MR. K.R. GOPINATHAN
- 11. MR. P.M. RAVEENDRAN
- 12. MR. SANTHOSH ARAYAKKANDI
- 13. MR. MELAMKODU SUDHAKARAN

Sree Narayana College, Kannur

COLLEGE EMBLEM



The emblem of Sree Narayana College, Kannur, reflects the institution's dedication to the teachings and philosophy of Sree Narayana Guru. It typically includes symbols that represent purity, enlightenment, knowledge, and wisdom. These elements are designed to inspire students and staff to pursue education and personal growth, in line with the Guru's vision of social equality and progress through education.

I.2. Vision and Mission of the College

Vision

To attain the noble notion of equality based on human dignity and practice the ideal of "Enlightenment through Education" as advocated by Sree Narayana Guru.

Mission

- Promote Education: To provide quality education to all sections of society, especially the underprivileged, and empower them to achieve their full potential.
- Foster Equality: To uphold the values of equality and social justice, ensuring that education serves as a tool for social transformation.
- Encourage Research: To foster a spirit of inquiry and innovation through research and development activities.
- Holistic Development: To focus on the overall development of students, including their intellectual, moral, and physical growth.

I.3. Specific Objectives of the College

- To attain the noble notion of equality based on human dignity and thus practice the ideal "Enlightenment through Education", of the great sage, seer and philosopher, Sree Narayana Guru, on, whose name the college is founded.
- To continuously involve in the process of removing the disparities based on race, religion and caste through greater participation of the minorities and the backward communities in the mainstream of formal education as propounded by Sree Narayana Guru.
- To act as the nucleus center for higher education in the district of Kannur and thus share the efforts of the State towards removing the social, economic and cultural backwardness of the home district.
- To remove the social inequalities among people and to uplift the economically and socially downtrodden, by providing them the facility of higher education.
- To transform the students into knowledgeable, competent, socially committed and honest citizens of the motherland by inculcating the spirit of scientific temper and analytical thinking which enable them to take up the challenges of life.
- To provide competitive and quality education and to inspire scholastic and aesthetic talents of the students for empowering them to seek gainful employment.
- To realize and honour human values, justice and universal brotherhood and thus provide value-based education for the mental advancement of the students.
- To provide a healthy and peaceful atmosphere for the maximum output in the fields of learning, teaching, research and extension.

Motto

The motto of Sree Narayana College, Kannur, is inspired by the teachings of Sree Narayana Guru. It embodies the principle of **"One Caste, One Religion, and One God for man"**. This motto reflects the college's commitment to promoting social equality, unity, and the pursuit of knowledge for all.

Programmes offered by the College

Programmes	Sanctioned Strength
A) UNDERGRADUATE COURSES (6 SEMESTERS)	
1. B. A. English (Cultural History of England & Intellectual History of	
Modern World- Complementary)	156
2. B. A. Economics (Indian History & Political Science -	
Complementary)	186
3. B. A. Malayalam (Sanskrit –Complementary)	171
4. B. A. History (Tourism & Political Science – Complementary)	194
5. B. B. A. (Economics, Statistics and Information Technology –	
Complementary)	273
6. B. Sc. Physics (Chemistry & Mathematics – Complementary)	142
7. B. Sc. Zoology (Botany & Chemistry - Complementary)	97
8. B. Sc. Microbiology (Zoology & Chemistry – Complementary)	117
9. B. Sc. Mathematics (Statistics & Physics – Complementary)	157
10. B. Sc. Botany (Zoology & Chemistry – Complementary)	111
11. B. Sc. Chemistry (Zoology & Chemistry – Complementary)	144
12. B. Com (Statistics & Law – Complementary)	179
B) POST GRADUATE COURSES (4 SEMESTERS)	
1. M. A. English	31
2. M. A. Economics	44
3. M. Sc. Chemistry	24
4. M. Sc. Physics	33
5. M. Sc. Zoology	34
6. M.Sc. Mathematics	34
7. M. Com. Accountancy and Finance	38

I.4. Total Campus Area and Built-up Area:

Sree Narayana College, Kannur				
Location	Total campus area in acres	Built up area and others in square meters		
		Total Built up Area	12632.57	
Urban	20.35	Total Green Area	7508.30	
		Library	962.28	
		Canteen	163.14	
		Hostel	11695.41	

I.5. Infrastructure facilities of the college:

1. Library and Reading Room: Library and reading room are the heart of Sree Narayana College, Kannur, slated to serve the educational, informational and research requirements of the faculty, students and researchers of the college. The computerized Central Library caters to the needs of the entire student community, research scholars and staff (both Teaching and Non-Teaching) of the college. The General library is housed in a separate block with an approximate build up area of 3840 sq. ft spread over two floors of the Jubilee Building of the college. The ground floor houses the general library section and reference and reading room are accommodated in the first floor. The library functions from 9 am to 5 pm on all including Saturdays and also during vacations. working days, The library possesses a rich collection of 48063 books, 30 journals and 20 periodicals/dailies, kept in an organized manner and displayed in the library. It also has a video library of NPTEL courses having a total capacity of 8 TB. The library also stores bound columns of Journals and CDs. In addition, the library also has a separate collection of books for competitive examinations.

Since 2011, all of the library's operations have been automated with Grandha Soft, developed by Grandha Associates, Pathanamthitta. The library is now using the upgraded version. The software includes modules such as Acquisition, Data Entry (in Malayalam and English), Circulation, DDC 23rd Edition English and Malayalam categorization, Dues Calculation, Stock Verification, and OPAC (Online Public Access Catalogue). Bibliographical information on the materials and their availability in the library is provided by the Computerized Catalogue Service, which makes searching and obtaining books and journals quick and simple. There are five terminals available for this facility. The web OPAC will help the users to search books available in the library without coming to the library.



Fig 1. General Library of Sree Narayana College, Kannur

2. Hostel: Sree Narayana College, Kannur offers a well-equipped hostel for girls close to the campus to ensure that they live in a healthy atmosphere free from barriers to learning and growth. There are two hostels for girls that can accommodate a combined total of 120 students. A chief matron is in charge of running the hostel. Every room is equipped with plenty of amenities, giving students a comfortable and cozy atmosphere. First -come, first-served policy governs the assignment of hostel rooms. Breakfast, lunch, supper, and evening drinks are served at the hostel mess. The mess committee regularly checks the food served in the mess for quality and cleanliness.



Fig 2. Ladies Hostel of Sree Narayana College, Kannur

3. Computer Centre: The college offers four computer centers with 110 computers, the majority of which have LAN capabilities and fiber optic 10MBPS internet connectivity. To fulfill the needs of the entire campus community, computer laboratories also provide printer and scanner facilities. The staff and students are assisted in using these services by the computer assistant. Five well-equipped PCs with internet access are part of the computerized central library. Additionally, computers with internet access, printers, and scanners are available in every departmental staff area. The school offers computer facilities, LCD projectors, over-head projectors, and smart boards for ICT-enabled teaching. Moreover, audiovisual tools are employed in teaching. Furthermore, seminar halls are frequently used for educational purposes.



Fig 3. Computer lab of Sree Narayana College, Kannur

4. Student Gymnasium: The aim of the gymnasium is to promote sports activities and the general health of the students participating in sports and games. It is connected to the physical education department and furnished with body building equipments.



Fig 4. Gymnasium present in the campus

5. Seminar Halls & Auditorium: A well-arranged auditorium is situated in the college in a separate block with a seating capacity of 1000. Audio Visual facility is available in the auditorium. Acoustics are properly maintained and balcony seating is arranged in the room. Auditorium stage is equipped with light and sound arrangements.

Three seminar halls are present in the campus. Seminar Hall-I is air conditioned, accommodating 120 seats with audio visual and LCD projection facilities with toilets at a nearby point. Seminar Hall-II accommodates 60 seats with Audio visual and LCD projection facilities. Seminar Hall – III involves 80 seats with Audio visual and LCD projection facilities in Economics Department.



Fig 5. Auditorium and Seminar Hall in the campus

6. IQAC: Sree Narayana College Kannur has established an Internal Quality Assurance Cell (IQAC) as a continuous post-accreditation quality sustenance measure for the enhancement and sustenance of quality in higher education. The IQAC is integrated into the institution's system and embodies commitment to performance evaluation, assessment, and accreditation. An IQAC room is present in the college to organise and schedule matters related to IQAC.



Fig 6. IQAC Room of Sree Narayana College, Kannur

7. Faculty: Teachers are qualified and knowledgeable so that the students can catch up easily. College has 87 faculty members and 10 non-teaching staff. Among the full-time faculty members, 27 have obtained their Ph.D. Apart from Ph.D. holders, 16 faculty members possess M.Phil. Degree. Some of the teachers have recognized as research supervisors by the Kannur University.

8. College Canteen: The College runs a canteen inside the campus. Students and staff are provided food at concessional rates.

9. Reprographic Centre: Reprographic centre is functioning in the college. It is equipped with photostat machines. Printing facility is available in the Reprographic Centre.

10. Student Co-operative Store: A student's co-operative store is functioning in the college to help the students to procure their text books, note books, record books, stationery etc. at a comparatively low price.

11. Staff Co-operative Society: A staff Co-operative Society is functioning in the college to offer ordinary banking facilities to the members.

12. Sports: The record of achievements of the Department of Physical Education forms one of the biggest strengths of the college through the last five decades. The college has been

consistently and progressively maintaining and bettering its track record in the field of sports and games at both intercollegiate and interuniversity levels by producing a number of achievers at state and national events.

Facility	No	Description
Facilities for Sp	oorts,]	Indoor and Outdoor games
Football Field	1	100m X 70m outdoor Football and Hockey Field, established in 1970
Basketball Court	1	Well-furnished 32m X 18m outdoor Basketball court near the college main gate, established in 2013
Shuttle badminton Court	1	18m X 10m indoor shuttle badminton court inside college auditorium, established in 2001
Ball badminton Court	1	28m X 12m Ball badminton court near the college main gate, established in 2013
Table Tennis Arena	2	One Table tennis arena in college auditorium and the other is near to Physical education department established in 2000
Wrestling Arena	1	Indoor Wrestling arena of area 64m 2, with 40 numbers of wrestling mattresses, established in 2000
Gymnasium	1	Gymnasium of area 64m 2 with all kinds of weight training equipments, established in 2014
Rest room for girls	1	Rest room for girls with attached toilet of area 28m 2 near Physical education department
Indoor Stadium	1	UGC funded indoor stadium of size 36m X 24m X 12.5m

I.6. DETAILS OF BUILDINGS

	No. of rooms	Dimensions
Particulars	available	
	available	(Sq. meter)
	30	70
	50	/0
1. Classrooms		
	21	60
	21	00
2. Lecture/Seminar Halls		
Conference Hall	3	140
Auditorium	1	800
	1	000
3. Staff/Department Rooms		
Botany	2	40
◆ BBA	1	50
Commerce	2	50
Chemistry	2	50
◆ Economics	2	50
◆ English	2	50
♦ History	1	40
◆ Malayalam	2	40
♦ Mathematics	2	40
♦ Microbiology	1	50
♦ Physics	2	50
◆ Zoology	1	800
4. Principal's Room	1	75
I		
5. Office Room	1	220
6. Lab facilities		
♦ Zoology Lab	4	225
 Botany Lab 	1	200
 Physics Lab 	2	200
 Chemistry Lab 	3	220
Microbiology Lab	1	220
 Research Lab 	5	
▼ Research Lau	3	200
7 Librowy	1	250
7. Library	1	350
0 Commuter Leb	2	- 200
8. Computer Lab	3	200
◆ Computer Lab		
9. Other Room Facilities		
♦ Research Room	5	200
◆ Lecture Hall		

♦ Reprographic Centre		
 Photostat Centre 	1	60
◆ NCC Room	1	25
♦ NSS Room	1	25
◆ IQAC	1	150
10. Toiletries		
 Student's Washroom (Boys) 		
(Department)	3	60
 ♦ Girls Toilet 	3	60
♦ Girls Room	1	60
♦ Department Toilets	12	50
♦ For Disabled	1	50
♦ For Staff	3	50
♦ Girls Room Wash Area	1	50

I.7. College rules

- Attendance will be taken at the beginning of each class. Absence during one period in the FN will be counted as absence in the FN session and absence in one period in the AN will be counted as absence in AN session.
- No student will be allowed to leave the class during class hours without the permission of the Head of the Institution.
- Students are expected to be cleanly and suitably dressed in their class as well as at any gathering within the college premises. Students should observe strict modesty in dress.
- Students shall always behave, with dignity and courtesy.
- As discipline is highly essential for the smooth working of the college, each and every student shall maintain it at any cost.
- Loitering through the corridors, hooting in the class rooms and other undesirable activities which disturb the calm atmosphere of the college are strictly forbidden.
- Absolute obedience is expected from every student. If any one tries to defy the authority of the principal or any teacher, he/she will be punished.
- Smoking is strictly prohibited in the college campus
- Students are forbidden to participate in any meeting or agitation directed against the authority of the Government or the college.
- No meeting or entertainments shall be organised or any fund collected in the college or hostel without the permission of the Principal.
- No student shall join or work for any organisation outside the college without the permission of the Principal.

- No student shall disfigure the walls and windows or furniture by writing on them. If any student damages or destroys any college property he/she will have to pay the cost of repair.
- Students who have no class to attend at any particular hour should remain in the reading room.
- Women students in particular, should not remain in class room when they have no class. They may proceed to the girls room or the library.
- Every student is expected to take part in one or more of the games for which facilities are provided by the college.
- Identity Cards:- All students admitted to the college shall keep with them their identity cards, with recent passport size photograph, duly attested by the Principal. All payments, issue of certificates etc. will be made to the students only on production of their identity card.
- Any tampering or disfiguring made on identity cards will be considered as a serious offence. Such identity cards will be cancelled and no new cards will be issued. The identity card shall be surrendered in the office at the time of issue of transfer certificate or on the completion of the course whichever is earlier.
- Hostel: No student will be allowed to stay out of the hostel after 6.30 p.m. except with the special permission of the resident tutor.
- If any student violates the rules and regulation stated above the Principal has absolute authority to expell him/her from the college.
- Use of mobile phones on college campus is strictly prohibited. It is a punishable offence as per court orders.
- All students shall wear the identity tag provided by the college in the college campus.

Chapter II

ENVIRONMENT AUDIT

II.1. Environment audit:

Environment audit is a method of assessing an organization's activities that is systematic, recorded, repeated, and objective and services in relation to:

- Assessing compliance with relevant statutory and internal requirements
- Controlling environmental activities under management is simplified.
- Promoting good environmental management
- Maintaining credibility with the public
- Raising staff awareness and enforcing commitment to departmental environmental policy
- Exploring improvement opportunities
- Establishing the performance baseline for developing an Environmental Management System

Conducting a green audit is no longer an option but a sound precaution and a proactive measure in today's heavily regulated environment. Indeed, evidence suggests that Environmental Audit has a valuable role to play, encouraging systematic incorporation of environmental perspectives into many aspects of an organization's overall operation, helping to trigger new awareness and new priorities in policies and practices.

The Green Auditing completed at Sree Narayana College is an innovative approach towards empowering the students and teachers in order to improve the existing environmental conditions in and around their campus. The main intention of the programme was to assess the existing biodiversity and natural resource (energy & water) management of the campus through active participation of the institutional community. The conservation of Natural resource through a participatory approach is the main agenda of Environment Auditing, which will make the community more aware about the nature and natural resources. Environment auditing involved the assessment of different components of the campus like Energy, Water, Biodiversity and Waste. The college which has undergone the proposed Environment auditing requires the assistance of any of the experts for biodiversity studies, natural resource management, energy conservation activities, etc.

Scope and Goals of Environment Auditing:

Green audit serves as a means to identify opportunities to sustainable development practices, enhance environmental quality, improve health, hygiene and safety, reduce liabilities and save money and achieve values of virtue. Environmental audits can be a highly valuable tool for colleges in a wide range of ways to improve their environmental and economic performance and reputation while reducing wastage and operating costs. Once baseline data is prepared after the auditing process, the data can serve as a point of departure for further action in campus greening.

Aim:

To conduct Environment Audit (Green audit, Energy audit and Water audit) of Sree Narayana College, Kannur so as to assess the environmental consciousness of college community.

II.2. General and Specific Objectives of Green Auditing

The general objective of green audit is to prepare a baseline report on biodiversity and other resources, measures to mitigate resource wastage and improve resource quality and sustainable practices.

The specific objectives are:

- To prepare a checklist of flora and fauna diversity in and around the College campus.
- To suggest measures to improve biodiversity within the campus.
- To monitor the energy consumption pattern of the College
- To assess the quantity of water usage within the College campuses.
- To suggest sustainable energy usage and water conservation practices.
- To find out various sources of organic and solid waste generation and mitigation possibilities.
- To inculcate values of sustainable development practices through green audit process.
- To assess the water usage, energy consumption, and waste management of the campus.
- To assess the selected flora and fauna of the campus.
- To create awareness among the University community.

- Verification of legislative and regulatory compliance.
- Assessment of internal policy and procedural conformance.
- Establishment of current practice status.

Areas of audit:

Areas of audit encompassed of:

- ✤ Material management, savings and alternatives.
- Energy management and savings.
- ✤ Water management and economy of use.
- ✤ Waste generation, management and disposal.
- Noise reduction, evaluation and control (internal and external).
- ✤ Air emissions and indoor air quality.
- Environmental emergency prevention and preparedness.
- ✤ Transportation and travelling practices.
- Staff awareness, participation and training in environmental issues.
- Environmental information publicity.
- Public enquiry and complaints response.

Procedure:

An environmental audit is typically undertaken in three phases:

- Pre-audit
- On-site audit and
- Post-audit

Each of these phases comprises a number of clearly defined objectives, with each objective to be achieved through specific actions, and these actions yield results in the form of outputs at the end of each phase. During the initial stage of the programme, training was conducted for the college, which included teaching and non-teaching staff, representatives of the syndicate, and students.

II.3. Target Areas of Environment Auditing

Green Audit

All plant and animal species including humans are linked together in a complex web of life; we depend upon biodiversity for our survival. Biodiversity is the key to healthy ecosystems and ultimately a healthy planet. It keeps the air and water clean, regulates our climate and provides us with food, shelter, clothing, medicine and other useful products. Each part within this complex web diminishes a little when one part weakens or disappears.

The trees work hard to keep the air we breathe clean and healthy. Their leaves take in much of the poisonous unwanted carbon dioxide in the air and replace it with the oxygen we need for healthy living. In this process, the plants with the help of sunlight, water, minerals and the green material called Chlorophyll within the leaves change the carbon-dioxide into food for themselves. When doing this they release oxygen into the air which is vital for all life on earth. The roots of trees dig deep into the earth and hold it together so that the rain and wind cannot wash or blow it away. This is very important as the earth has only a very thin layer of fertile soil covering it.

The audit was focused to survey for biodiversity of flora and fauna within the campus. This was helped to quantify the area covered by vegetation and to assess the amount and diversity of habitats. Through the survey the students and faculties get encouraged to device strategies to increase the level of biodiversity in their campus.

Energy Audit

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

Energy audit was carried out by the audit team in order to assess the energy usage pattern in the college. The purpose of an energy audit is to account for consumption and recommend where savings are possible. The audit typically involved data collection and review, in that equipment survey and system measurements are also collected. Equipment survey helped to understand the system functioning, efficiency can be estimated. During the auditing, the meter readings were recorded and along with that the hours of usage were also noted. The data collected includes total monthly use in units, total cost per month, number of students and other staff on each campus, etc. which was helped to determine the daily usage of energy per person, daily cost, etc.

Water Audit

This indicator addresses water consumption, water sources, irrigation, stormwater, appliances and fixtures. Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices.

A water audit was conducted in order to assess the daily water usage pattern in the college. Through this we have also measured the water wastage in the campus; this can be used for improving the equipment and its maintenance.

Biodegradable and hazardous Waste Audit

This indicator addresses biodegradable waste from campus and hostel canteen, paper waste, hazardous waste of laboratories and worn-out electric & electronic goods, and plastic wastes. Hazardous materials represent significant risks to human health and ecological integrity. Hazardous wastes are also leached out through the e-waste generated on the campus. They often persist in the environment leaving a legacy of land and water contamination for generations. They also accumulate in the tissues of organisms and become concentrated within food chains, leading to cancer, endocrine disruption, birth defects, and other tragedies. The minimization, safe handling, and ultimate elimination of these materials are essential for the safety of the environment.

A waste audit was conducted to assess the amount of waste generated, types of waste generated and disposal methods on the campus. The amount of waste generated on the campus was assessed through a survey, which provided baseline data. It helped to identify the waste generation on the campus. The survey quantified the waste streams, the effectiveness of the existing waste management systems on the campus, etc. This helped to identify the ways to reduce waste, the need for implementing new waste management strategies. Waste audits helped in waste diversion and waste reduction, and this provided a healthy environment.

Audit Forms used for Data Collection: The various forms used for the data collection is given in the appendix -1



Chapter III

GREEN AUDIT

III.1. Green Audit Statement

Sl. No.	Name of Campus	Total vegetation cover (Acres)	Number of plant species identified
1.	Sree Narayana College, Kannur	4.16	213

III.2. Biodiversity status of Sree Narayana College, Kannur

III.2.i. Floral diversity

List of plants seen in Sree Narayana College, Kannur

The biodiversity status of Sree Narayana College, Kannur is given below:

Sl. No	Scientific name	Family	Habitat
1	Abrus precatorius	Fabaceae	Herb
2	Acacia auriculiformis	Fabaceae	Tree
3	Achyranthus aspera	Amaranthaceae	Herb
4	Adathoda vasica	Acanthaceae	Herb
5	Adenanthera pavonine	Fabaceae	Tree
6	Aegle marmelos	Rutaceae	Tree
7	Aerva lanata	Amaranthaceae	Herb
8	Aeschynomene americana	Mimosaceae	Herb
9	Ageratum conyzoides	Asteraceae	Herb
10	Allamanda cathartica	Apocynaceae	Shrub
11	Allophylus serratus	Sapindaceae	Shrub
12	Aloe vera	Liliaceae	Herb
13	Alstonia scholaris	Apocynaceae	Tree
14	Alternanthera sessilis	Amaranthaceae	Herb
15	Alternanthera tenella	Amaranthaceae	Herb

16	Alysicarpus ovalifoloius	Fabaceae	Herb
17	Alysicarpus vaginalis	Fabaceae	Herb
18	Andrographis paniculata	Acanthaceae	Herb
19	Annona reticulata	Annoaceae	Tree
20	Aristolochia indica	Aristolochiaceae	Climber
21	Arundinella sps.	Poaceae	Herb
22	Asystasia gangetica	Acanthaceae	Herb
23	Averrhoa bilimbi	Oxalidaceae	Tree
24	Axonopus compressus	Poaceae	Herb
25	Azadirachta indica	Meliaceae	Tree
26	Bacopa monnieri	Scrophulariaceae	Herb
27	Bauhinia accuminata	Caesalpinaceae	Shrub
28	Bauhinia purpurea	Caesalpinaceae	Tree
29	Bignonia grandiflora	Bignoniaceae	Creeper
30	Biophytum sensitivum	Oxalidaceae	Herb
31	Blumea oxyodonta	Compositae (Asteraceae)	Herb
32	Boerhaavia diffusa	Nyctaginaceae	Herb
33	Bougainvillea spectabili	Nyctaginaceae	Climber
34	Brachiaria ramose	Poaceae	Herb
35	Brachiaria remota	Poaceae	Herb
36	Breynia vitisidaea	Phyllanthaceae (Euphorbiaceae)	Shrub
37	Bridelia retusa	Phyllanthaceae (Euphorbiaceae)	Tree
38	Bridelia scandens	Euphorbiaceae	Tree
39	Calotropis gigantea	Asclepiadaceae	Shrub
40	Capsicum frutescens	Solanaceae	Shrub
41	Carallia brachiate	Rhizophoraceae	Tree
42	Cardiospermum helicacabum	Sapindaceae	Climber
43	Carica papaya	Caricaceae	Tree
44	Carallia intergersima	Rhizophoraceae	Tree
45	Caryota urens	Arecaceae	Tree
46	Cassia alata	Caesalpinaceae	Shrub
47	Cassia fistula	Caesalpinaceae	Tree

48	Casuarina equisetifolia	Casuarinaceae	Tree
49	Catharanthus roseus	Apocynaceae	Herb
50	Centella asiatica	Apiaceae	Herb
51	Centratherum punctatum	Asteraceae	Herb
52	Centrosema molle	Papilionaceae	Climber
53	Chamaecristaem imosoides	Mimosaceae	Shrub
54	Chassalia curviflora	Rubiaceae	Shrub
55	Cinnamomum zeylanicum	Lauraceae	Tree
56	Cissus latifolia	Vitaceae	Climber
57	Cissus quadrangularis	Vitaceae	Climber
58	Citrus limon	Rutaceae	Tree
59	Cleome viscosa	Capparidaceae	Herb
60	Clerodendrum infortunatum	Lamiaceae	Shrub
61	Clitoria ternate	Papilionaceae	Climber
62	Coleus aromaticus	Lamiaceae	Herb
63	Commelina kurzii	Commelinaceae	Herb
64	Corchorus aestuans	Malvaceae	Herb
65	Costus spicatus	Zingiberaceae	Herb
66	Crotalaria pallida	Papilionaceae	Herb
67	Cryptostegia grandiflora	Apocynaceae	Climber
68	Curculigo orchioides	Hypoxidaceae	Herb
69	Curcuma longa	Zingiberaceae	Herb
70	Curcuma zedoaria	Zingiberaceae	Herb
71	Cyanotis cristata	Commelinaceae	Herb
72	Cyathula prostrata	Amaranthaceae	Herb
73	Cycas revoluta	Cycadaceae	shrub
74	Cyclea peltate	Menispermaceae	Climber
75	Cynodon dactylon	Poaceae	Herb
76	Cyperus rotundus	Cyperaceae	Herb
77	Dactyloctenium aegiptium	Poaceae	Herb
78	Datura stramonium	Solanaceae	Herb
79	Delonix regia	Caesalpinaceae	Tree

80	Dendrocalamus giganteus	Poaceae	Tree
81	Desmodium gyrans	Fabaceae	Shrub
82	Desmodiums corpiurus	Papilionaceae	Herb
83	Desmodium triflorum	Papilionaceae	Herb
84	Dipteracanthus prostrates	Acanthaceae	Herb
85	Durantha repens	Verbenaceae	Shrub
86	Elephantopus scaber	Asteraceae	Herb
87	Eleusine coracana	Poaceae	Herb
88	Eleusine indica	Poaceae	Herb
89	Eragrostis unioloides	Poaceae	Herb
90	Eragrostis viscosa	Poaceae	Herb
91	Eryngium caeruleum	Apiaceae	Herb
92	Eupatorium odoratum	Asteraceae	Shrub
93	Euphorbia heterophylla	Euphorbiaceae	Herb
94	Euphorbia hirta	Euphorbiaceae	Herb
95	Euphorbia thirucalli	Euphorbiaceae	Shrub
96	Evolvulus nummularis	Convolvulaceae	Herb
97	Ficus recemosa	Moraceae	Tree
98	Flueggea leucopyrus	Euphorbiaceae	Shrub
99	Flueggea virosa	Phyllanthaceae	Shrub
100	Garcinia cambogia	Fabaceae	Tree
101	Gardenia jasminoides	Rubiaceae	Shrub
102	Gmelina arborea	Lamiaceae	Tree
103	Gomphrena globosa	Amaranthaceae	Herb
104	Grevillea robusta	Proteaceae	Tree
105	Grewia nervosa	Malvaceae	Shrub
106	Gymnema sylvestre	Apocynaceae	Climber
107	Hedyotis brachypoda	Rubiaceae	Herb
108	Hemidesmus indicus	Apocynaceae	Shrub
109	Hemigraphis alternata	Acanthaceae	Herb
110	Hemigraphis colorata	Acanthaceae	Herb
111	Heteropogon contortus	Poaceae	Herb

112	Hibiscus rosasinensis	Malvaceae	Shrub
113	Holigarna arnottiana	Anacardiaceae	Tree
114	Hybanthus enneaspermus	Violaceae	Herb
115	Hyptis suaveolens	Lamiaceae	Herb
116	Ipomea maxima	Convolvulaceae	Creeper
117	<i>Ipomea</i> sps.	Convolvulaceae	Climber
118	Ipomoea hederifolia	Convolvulaceae	Climber
119	Ischaemum ciliare	Poaceae	Herb
120	Ixora coccinea	Rubiaceae	Shrub
121	Jasminum sambac	Oleaceae	Shrub
122	Kaemferia galanga	Zingiberaceae	Herb
123	Kyllinga nemoralis	Cyperaceae	Creeper
124	Lannea coromandelica	Anacardiaceae	Tree
125	Lantana camara	Verbenaceae	Shrub
126	Laportea interrupta	Urticaceae	Herb
127	Leucas aspera	Lamiaceae	Herb
128	Leucas linifolia	Lamiaceae	Herb
129	Lindernia ciliata	Linderniaceae	Herb
130	Lygodium flexuosum	Lygodiaceae	Climbing fern
131	Macaranga peltate	Euphorbiaceae	Tree
132	Magnolia champaca	Magnolinaceae	Tree
133	Mangifera indica	Anacardiaceae	Tree
134	Manikara zapota	Sapotaceae	Tree
135	Maranta arundinaceae	Marantaceae	Herb
136	Memecylon umbellatum	Melastomataceae	Tree
137	Merremia tridentata	Convolvulaceae	Climber
138	Microstachys chamaelea	Euphorbiaceae	Herb
139	Mikania micrantha	Asteraceae	Climber
140	Mimosa pudica	Mimosaceae	Herb
141	Mimusops elengi	Sapotaceae	Tree
142	Mitracarpus verticillatus	Rubiaceae	Herb
143	Mukia madraspatana	Cucurbitaceae	Climber

144	Murraya koenigii	Rutaceae	Tree
145	Ocimum basilicum	Lamiaceae	Herb
146	Ocimum sanctum	Lamiaceae	Shrub
147	Oplismenus burmannii	Poaceae	Herb
148	Oxalis corniculate	Oxalidaceae	Creeper
149	Panicum paludosum	Poaceae	Herb
150	Passiflora edulis	Passifloraceae	Climber
151	Passiflora foetida	Passifloraceae	Climber
152	Peltophorum pterocarpum	Caesalpinaceae	Tree
153	Pennisetum hohenackeri	Poaceae	Herb
154	Pentas lanceolata	Rubiaceae	Shrub
155	Phyllanthus amarus	Euphorbiaceae	Herb
156	Phyllanthus emblica	Euphorbiaceae	Herb
157	Phyllanthus virgatus	Euphorbiaceae	Herb
158	Physalis minima	Solanaceae	Herb
159	Pilea microphylla	Urticaceae	Herb
160	Piper longum	Piperaceae	Herb
161	Plumbago zeylanica	Plumbalginaceae	Herb
162	Plumeria pudica	Apocynaceae	Shrub
163	Pongamia pinnata	Fabaceae	Tree
164	Portulaca oleracea	Portulacaceae	Herb
165	Pothos scandens	Araceae	Climbing shrub
166	Psidium guajava	Myrtaceae	Tree
167	Pterocarpus santalinus	Fabaceae	Tree
168	Ricinus communis	Euphorbiaceae	Shrub
169	Rosa indica	Rosaceae	Shrub
170	Rungia pectinate	Acanthaceae	Herb
171	Samanea saman	Papilionaceae	Tree
172	Scoparia dulcis	Plantiginaceae (Scrophulariaceae)	Herb
173	Selaginella haematodes	Selaginellaceae	Herb
174	Sesamum indicum subsp. Malabaricum	Pedaliaceae	Herb

175	Sida acuta	Malvaceae	Shrub
176	Sida cordifolia	Malvaceae	Shrub
177	Sida retusa	Malvaceae	Herb
178	Simarouba glauca	Simaroubaceae	Tree
179	Spermacoce articularis	Rubiaceae	Herb
180	Spermacoce ocymoides	Rubiaceae	Herb
181	Spilanthes acmella	Asteraceae	Herb
182	Sterculia foetida	Malvaceae	Tree
183	Stereospermum tetragonium	Bignoniaceae	Tree
184	Swietenia mahagoni	Meliaceae	Tree
185	Synedrella nodiflora	Asteraceae	Herb
186	Syzygium aqueum	Myrtaceae	Tree
187	Syzygium cumini	Myrtaceae	Tree
188	Syzygium jambos	Myrtaceae	Tree
189	Tabernaemontana alternifolia	Apocynaceae	Shrub
190	Tabernaemontana divaricata	Apocynaceae	Shrub
191	Tamarindus indica	Caesalpinaceae	Tree
192	Tectona grandis	Lamiaceae	Tree
193	Terminalia bellerica	Combretaceae (Cannabaceae)	Tree
194	Terminalia sp	Combretaceae	Tree
195	Thespesia populnea	Malvaceae	Shrub
196	Thunbergia grandiflora	Acanthaceae	Climber
197	Tinospora cordifolia	Menispermaceae	Climber
198	Tragia involuerata	Euphorbiaceae	Herb
199	Trema orientalis	Combretaceae	Tree
200	Tridax procumbens	Asteraceae	Herb
201	Triumfetta annua	Malvaceae	Shrub
202	Triumfetta rhomboidei	Malvaceae	Shrub
203	Turnera subulate	Passifloraceae	Herb
204	Urena lobata	Malvaceae	Shrub
205	Vanda species	orchidaceae	Epiphyte
206	Vanilla fragrens	orchidaceae	Climber

207	Vernonia cinerea	Asteraceae	Herb
208	Vitex negundo	Verbenaceae	Shrub
209	Wattakaka volubilis	Asclepiadaceae	Climber
210	Zanthoxyl emhetsa	Rutaceae	Tree
211	Ziziphus mauritiana	Rhamnaceae	Tree
212	Ziziphus oenopolia	Rhamnaceae	Shrub
213	Cocos nucifera	Arecaceae	Tree

III.2. ii. Faunal diversity

Table 2. Faunal diversity of Sree Narayana College, Kannur

Sl. No.	BIRDS:
1	Lesser Whistling-Duck
2	Indian Peafowl
3	Rock Pigeon
4	Spotted Dove
5	Greater Coucal
6	Asian Koel
7	Gray-headed Swamphen
8	White-breasted Waterhen
9	Pheasant-tailed Jacana
10	Bronze-winged Jacana
11	Wood Sandpiper
12	Asian Woolly-necked Stork
13	Indian Pond-Heron
14	Eastern Cattle Egret
15	Great Egret
16	Medium Egret
17	Gray Heron
18	Purple Heron
19	Glossy Ibis
20	Black-headed Ibis
21	Crested Goshawk
22	Shikra
23	Black Kite
24	Brahminy Kite
25	Spotted Owlet
26	White-throated Kingfisher
27	Asian Green Bee-eater
28	Blue-tailed Bee-eater
29	White-cheeked Barbet
30	Black-rumped Flame back
31	Rose-ringed Parakeet
32	Indian Golden Oriole

33	Ashy Drongo	
33	Ashy Drongo	
34	Greater Racket-tailed Drongo Indian Paradise-Flycatcher	
35		
30	Rufous Treepie House Crow	
38	Large-billed Crow	
39	Common Tailorbird	
40	Gray-breasted Prinia	
<u>ann</u>		
Sl.No.	ANTS	
1	Solenopsis germinate	
2	Pheidole species	
3	Myrmicaria species	
4	Camponotus species	
5	Tapinoma melanocephalum	
6	Paratrechina longicornis	
7	Oecophylla smargadina	
8	Polyrhachis dives	
9	Crematogaster species	
10	Odontomachus species	
11	Anoplolepis gracillipes	
12	Formica fusca	
13	Lepisiota species	
Sl. No.	SPIDERS	
1	Hippasa angelenoides	
2	Lyssomanes viridis	
3	Pholcus phalangiodes	
4	Plexippus ptersi	
5	Telamonia dimidiate	
Sl. No.	BUTTERFLIES:	
1	Acraea terpsicore	
2	Zizula hylax	
3	Spialia galba	
4	Euploea core	
5	Tirumal limniace	
6	Chilades pandava (Horsfield)	
7	Eurema hecabe	
8	Leptosia nina	
L		

III.3. Estimation of carbon footprint

A carbon footprint is the amount of greenhouse gases (primarily carbon dioxide) released into the atmosphere by human activity. A carbon footprint can be a broad measure or be applied to the actions of an individual, a family, an event, an organization, or even entire nation. It is usually measured as tons of CO_2 emitted per year, a number that can be supplemented by tons of CO_2 -equivalent gases, including methane, nitrous oxide, and other greenhouse gases.

Global Warming Potential (GWP) is a measure of how much heat a greenhouse gas traps in the atmosphere up to a specific time horizon, relative to carbon dioxide. The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of one ton of a gas will absorb over a given period of time, relative to the emissions of one ton of carbon dioxide (CO_2).

	Glob	al Warming P	otentials*		
				Warming	
Species	Chemical	Lifetime	20	100	500
	formula	(years)	years	years	years
Carbon dioxide	CO2	variable §	1	1	1
Methane *	CH4	12±3	56	21	6.5
Nitrous oxide	N2O	120	280	310	170
HFC-23	CHF3	264	9100	11700	9800
HFC-32	CH2F2	5.6	2100	650	200
HFC-41	CH3F	3.7	490	150	45
HFC-43-10mee	C5H2F10	17.1	3000	1300	400
HFC-125	C2HF5	32.6	4600	2800	920
HFC-134	C2H2F4	10.6	2900	1000	310
HFC-134a	CH2FCF3	14.6	3400	1300	420
HFC-152a	C2H4F2	1.5	460	140	42
HFC-143	C2H3F3	3.8	1000	300	94
HFC-143a	C2H3F3	48.3	5000	3800	1400
HFC-227ea	C3HF7	36.5	4300	2900	950
HFC-236fa	C3H2F6	209	5100	6300	4700
HFC-245ca	C3H3F5	6.6	1800	560	170
Sulphur hexafluoride	SF6	3200	16300	23900	34900
Perfluoromethane	CF4	50000	4400	6500	10000
Perfluoroethane	C2F6	10000	6200	9200	14000
Perfluoropropane	C3F8	2600	4800	7000	10100
Perfluorobutane	C4F10	2600	4800	7000	10100
Perfluorocyclobutan e	c-C4F8	3200	6000	8700	12700
Perfluoropentane	C5F12	4100	5100	7500	11000
Perfluorohexane	C6F14	3200	5000	7400	10700

*Source: IPCC Second Assessment Report

During the audit, carbon emission data from the campus is estimated under four categories such as Energy, Transportation, Waste sector and Sequestrated carbon.

III. 4. Carbon Emission Profile of S.N College (2022)

Carbon emissions in the campus due to the various activities are given below. The standard emission factors considered for estimation and its units are also given.

Emission Factors						
Item	Factor	Unit				
Electricity	0.00087	tCo2e/kWh				
LPG	0.00155	tCo2e/kg				
Diesel	0.00325	tCo2e/kg				
Petrol	0.00315	tCo2e/kg				
Food Waste	0.00068	tCo2e/kg				
Paper Waste	0.00061	tCo2e/kg				
Plastic Waste	0.00039	tCo2e/kg				

III.5. Carbon Foot Print of S.N College (Assessment year: 2022)

	Carbon Foot P	rint	
Sl. No.	Particulars	2022	tCO2e
1	Electricity (kWh)	322030	265
2	Diesel (L)	645	2.1
3	LPG (kg)	650	1
4	Biogas (m3)	0	0
5	Degradable Waste in kg/yr.	13949.6	9.2
6	Paper Waste in kg/yr	189	0.09
Total Ca	rbon Foot Print tCO2e/yr		277.39

III.6. Carbon Mitigation Plans:

The various carbon emitting activities such as consumption of energy, transportation and waste generation leads to the total emission of 277.39 tCO2e per year by the campus. Emission reduction plans were prepared to bring the existing per capita carbon footprint to zero or below so as to bring the campus a carbon neutral or carbon negative campus.

The three major methods that can be taken in to account as the plans for reducing the carbon emission of the campus is given below:

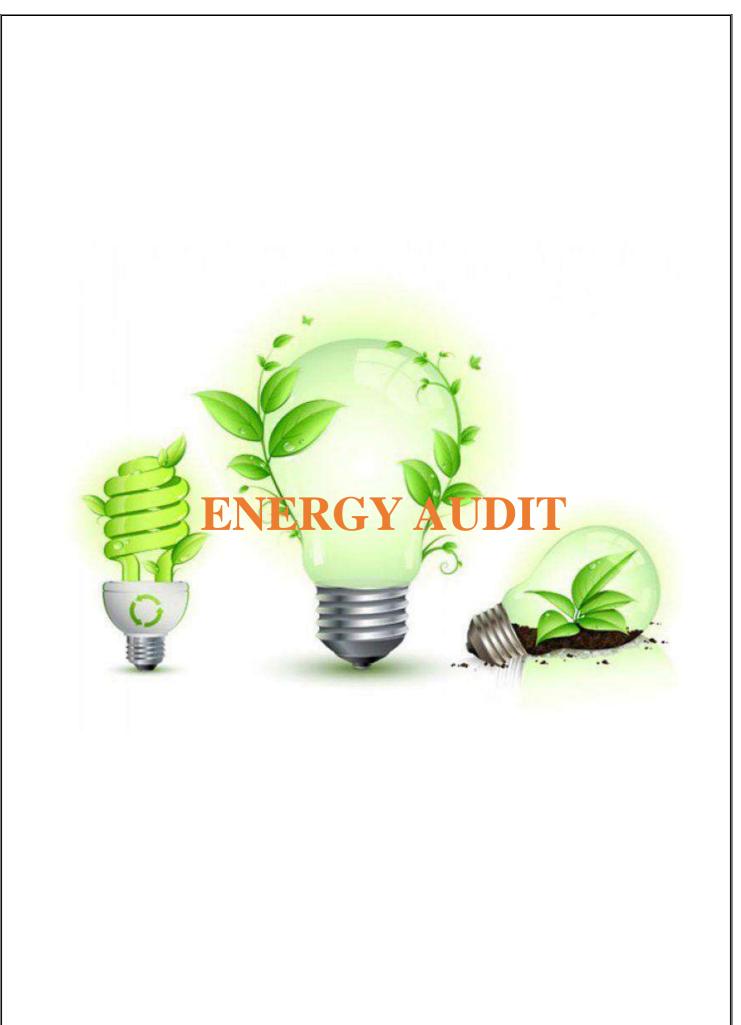
- Resource optimization
- Energy efficiency
- Renewable energy

III.7. Assessment of Emission of Sulphur Dioxide (SO₂):

During the onsite environment audit, none of the sources noticed to emit SO_2 directly from the campus.



Fig 7. Vegetation view of the Campus



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<u>CERTIFICATE</u>

This is certified that this **Energy Audit Report** submitted to the Sree Narayana College, Kannur is an authentic report of Energy audit done by the Audit Team of the Department of Environmental Studies of Kannur University at Sree Narayana College, Kannur during the period from 22nd to 27th March 2022.

Dr. Pradeepan Periyat

HEAD DEPARTMENT OF ENVIRONMENTAL STUDIES KANNUR UNIVERSITY MANGATUPARAMBA, KANNUR KERALA - 670 567



Place: Mangattuparamba Date: 30/03/2022

Chapter IV ENERGY AUDIT

4.1. Introduction:

Energy audit helps to understand more about the ways energy is used in any of the Institute and helps in identifying areas where energy waste may occur and scope for improvement exists. Energy audit is the most efficient way to identify the strength and weakness of energy management practices and to find a way to solve problem. Energy audit is one kind of professional approach towards a responsible way in utilizing economic, financial, and social and natural resources.

The Department of Environmental Studies of Kannur University carried out the Energy Audit at the site to find loopholes in the energy consumption pattern for Sree Narayana College, Kannur. A technical report has been prepared as per the requirement of the audit.

4.2. Objectives of Energy Auditing:

The energy audit enables the vital information base for overall energy conservation program covering energy utilization analysis and evaluation of energy conservation measures. It aims at:

- Identifying the quality and cost of various energy inputs.
- Assessing present pattern of energy consumption in different cost centers of operations.
- Relating energy inputs and production output.
- Identifying potential areas thermal and electrical energy economy.
- Highlighting wastages in major areas.
- Fixing of energy saving potential targets for individual cost centers.
- Implementation of measures for energy conservation & realization of savings.

4.3. Procedure of audit: Procedure adopted for fulfilling the desired objectives viz.: Assessment of the current operational status and energy savings include the following:

- Discussions with the concerned officials for identification of major areas of focus and other related systems.
- Team of experts visited the site and had discussions with the concerned officials to collect information on the operations and load distribution within the plant and same for the overall premises.
- Measurements and monitoring with the help of appropriate instruments including continuous and / or time-lapse recording, as appropriate and visual observations were made to identify the energy usage pattern and losses in the system.
- Trend analysis of costs and consumptions.
- Capacity and efficiency test of major utility equipment's, wherever applicable.
- Estimation of various losses
- o Computation and in-depth analysis of the collected data

4.4. Energy usage in Sree Narayana College, Kannur

The cost of various energy usage of college	ge:
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Sl. No	Name of college	Average Monthly Electricity charge (Rs)	Average Monthly gas refilling charge (Rs)	Average Monthly generator fuel charge (Rs)
1.	Sree Narayana College, Kannur	37060	2900	2500

The Details of monthly connected load of the college is given below:

Month & Year	Price	Unit of consumption (KWH)
Jan-22	44670	6248.46
Feb -22	10488	1467.05
Mar-22	35157	4917.41
Apr-22	49585	6941.26
	Jan-22 Feb -22 Mar-22	Jan-22 44670 Feb -22 10488 Mar-22 35157

5	May-22	35492	4964.4
6	Jun-22	26745	3737.85
7	Jul-22	38571	5395.31
8	Aug-22	37308	5215.03
9	Sep-22	40912	5722.73
10	Oct-22	34967	4891.97
11	Nov-22	42677	5971.33
12	Dec-22	48149	6735.94

Annual Electricity Consumption (Watts)					
Consumer No2022Connected Load (W					
1166579000036	Price: 444721	127955			
Total	444721	127955			

NO	LOCATION	NAME OF EQUIPMENT	WATTAGE (W)	POWER RATING STAR	AVERAGE USE PER WEEK	AVERAGE DAYS OF USE /WEEK
1	CHEMISTRY	HOT AIR OVEN	1000	-	4 hr	6
	DEPARTMENT	MICROWAVE OVEN	1150	-	4 hr	3
		FRIDGE	63	5	168 hr	7
		DISTILLATION UNIT	4000	-	4 hr	5
		MAGNETIC STIRRER (3 nos.)	1000	-	4 hr	4
2	PHYSICS DEPARTMENT	ELECTROMAGNET (3 nos.)	300	-	4 hr	3
		SOURCE OF SOLAR CELL APPARATUS	100	-	4 hr	3
		E/M APPARATUS	250	-	1hr	3
		HEATING ELEMENT IN FOUR PROBE APPARATUS	300	-	3 hr	3
3	BOTANY	WATER BATH	1000	-	4 hr	6
	DEPARTMENT	HOT AIR OVEN	1000	-	0 hr	0
		CENTRIFUGE	100	-	0 hr	0
		AUTOCLAVE	1500	-	0 hr	0
		SINGLE DISTILLATION UNIT	800	-	0 hr	0
4	ZOOLOGY	WATER BATH	2000	-	4 hr	3
	DEPARTMENT	HOT AIR OVEN	1000	-	3 hr	5
		SINGLE DISTILLATION UNIT	4000	-	4 hr	5
		FRIDGE	63	5	162 hr	7

4.5. Checklist of Electrical and Electronic equipment with power consumption pattern

		CENTRIFUGE	300	-	6 hr	3
		ELECTRONIC BALANCE	330	-	5 hr	3
5	MICROBIOLOGY		90	-	4 hr	4
	DEPARTMENT	WATER BATH	1000	-	4 hr	3
		LAMINAR AIRFLOW	76	-	4 hr	
		HOT AIR OVEN	2000	-	4 hr	5
		INCUBATOR	100	-	4 hr	
		CENTRIFUGE	1500	-	4 hr	4
6	OTHERS	PROJECTOR	900	-	4 hr	5
			300	-	5 hr	3
			20	-	3 hr	6

4.6. Indoor and outdoor energy consumption:

Location No.	Type ¹	Use ² Construction type ³		doors ⁴ /sk	lows & ylight ⁵ /wall dows ⁶	No. of light points ⁷	No. of fan points ⁸	Average Hours of use /week ⁹
				Windows	Door	points		
			MAIN BLOC	K / ZOOLO	GY BLOCK			
1	Classroom	Lecture	Concrete	77	37	77	52	35 hr
2	Corridor	Walking	Concrete	-	-	-	-	2.5 hr
3	Toilet	Washroom	Concrete	-	-	4		2.5 hr
4	Office	Office Work	Concrete	25	10	37	20	40 hr
5	Lab	Lab Work	Concrete	23	11	36	25	40 hr
6	Others	-	Concrete	11	2	22	10	5 hr
			B.0	COM BLOCH	X			
7	Classroom	Lecture	Tile Roof	22	9	11	20	35 hr
8	Corridor	Walking	Tile Roof	-	-	-	-	2.5 hr
9	Toilet	Washroom	Concrete	8	7	5	-	2.5 hr
10	Office	Office Work	Tile Roof	3	5	7	7	40 hr
11	Fitness Centre	Workout	Tile Roof	4	2	5	-	3 hr
12	Library	Reading and Reference	Concrete	3	2	4	1	40 hr
			MALA	YALAM BL	OCK			
13	Classroom	Lecture	Concrete	45	13	17	33	35 hr
14	Corridor	Walking	Concrete	-	-	2		2.5 hr
15	Toilet	Washroom	Concrete	7	3	8	2	2.5 hr
16	Office	Office Work	Concrete	10	6	9	7	40 hr
17	Gym	Workout	Concrete	1	2	6	2	3 hr
18	Lab	Lab Work	Concrete	1	8	7	1	40 hr

			HISTORY &	LANGUA	GE BLOCK			
19	Classroom	Lecture	Concrete &Tile Roof	74	26	28	31	35 hr
20	Corridor	Walking	Concrete &Tile Roof	-	-	-	-	2.5 hr
21	Toilet	Washroom	Concrete	-	-	-	-	2.5 hr
22	Office	Office Work	Concrete	3	1	2	1	40 hr
			CHEMISTRY	Y & PHYSI	CS BLOCK		<u> </u>	
23	Classroom	Lecture	Concrete	7	9	16	12	35 hr
24	Corridor	Walking	Concrete	-	-	-	-	2.5 hr
25	Toilet	Washroom	Concrete	-	-	2	-	2.5 hr
26	Office	Office Work	Concrete	15	10	14	9	40 hr
27	Lab	Lab Work	Concrete	53	15	58	21	40 hr
			STO	ORE BLOC	K		<u>. </u>	
28	Student Co- Operative Store	Purchase of Stationary Items	Concrete	2	2	4	2	30 hr
		-	LIBI	RARY BLO	CK			
29	College Library	Reading and reference	Concrete	28	9	29	28	40 hr
			NSS &	& NCC BLO	CK		<u> </u>	
30	Auditorium	Conduct programs	Concrete	12	6	30	17	4 hr
31	NSS and NCC Rooms	Storage of respective accessories	Concrete	2	2	2	2	20 hr
			CAN	TEEN BLO	СК			
32	Canteen	Kitchen and food serving purpose	Concrete	5	3	11	7	35 hr
22	XX7 XX	A 1.1		STEL BLOC		(2)		40.1
33	Womens Hostel	Accommodation	Concrete	60	22	62	60	40 hr

4.7. Existing energy sources of the College

- Solar energy is making use for outdoor lights
- Biogas plant is installed in the campus
- Electricity from Kerala State Electricity Board (KSEB) is the major source of energy

4.8. Electric Appliance Audit:

The average energy utilization of Sree Narayana College, Kannur for different purposes is 90.489 kwh/month.

Average Electricity charge of the campus is Rs. 24420/-month. Average Gas refilling charge of the campus is Rs. 2900/-month. Average Generator fuel charge of the campus is Rs. 2500/-month. A hybrid source of energy comprising solar and wind type of non-conventional category of energy will be a good alternative energy sources for the college

Awareness programs for the stakeholders to save energy may also increase sustainability in the utilization of various energy sources. Although staffs are encouraged to switch off their own lights, monitors and other equipment, the college administrative staff should carry out a lock down of the building at the end of every day and switch off any lights or equipment that have been left on. All the incandescent bulbs have to be replaced by low energy bulbs. Lighting in some areas such as the toilets should be controlled by PIR (passive infrared light) sensors. Lighting in the library should be predominantly LEDs and energy saving bulbs. The college should improve its monitoring and reporting of energy usage and provide information to campus users. The awareness boards for energy savings have to be installed in the college campuses.

The sun provides more energy than we'll ever need, electricity from solar power is a very important energy source in the move to clean energy production and hence the important source of alternative energy for the college is solar power. No greenhouse gas emissions are released into the atmosphere while using solar panels to create electricity. Proper wiring of buildings has to be ensured and older wiring, if necessary, has to be replaced. The damaged wiring may be replaced to avoid electricity leakage and to protect the College and its appliances from potentially dangerous or expensive damage that may arise due to faulty wiring.

4.9. Existing energy management methods in the College campus

- Energy saving campaigns are organised by different departments
- Established solar powered lights at Campus entrance and nearby library.
- Older and damaged equipment's found to be replaced if necessary.
- Wiring and electrical maintains are periodically monitored and replacements are made.

4.10. Sectors to be improved:

- A. Lighting System:
 - 1. All "conventional FTL (46 Watt) should be replaced by energy efficient LED Tube Light fixture (20 Watt).
 - 2. Installation of **"Timer control on street lighting"** in college campus recommended for energy saving in the campus.
- B. Ceiling Fan and Exhaust Fan:
 - Replacement of "conventional ceiling fan 80 Watt" by energy efficient star rated fan or BLDC based energy efficient fan (20 to 25 Watt) in "admin building, class rooms, Auditorium Hall laboratories and faculties cabin" have great potential for energy saving.
 - Replacement of "conventional exhaust fan 60Watt" by energy efficient star rated fan or BLDC based energy efficient Fan (20 to 40 Watt) in Co llege building class rooms, laboratories and faculties cabin have great potential for energy saving.
 - Expected energy saving and simply payback period is subject of load factor and annual operating hours. Expected energy saving and simply payback period is subject of load factor and annual operating hours.

C. Air Conditioning System:

 $\circ\,$ It is recommended "Fall Ceiling "in air conditioning area. It will be

reduced air conditioning load of AC and unit consumption.

 \circ $\;$ Reduced the infiltration from door and window in air conditioning area

D. Energy Management Workshop and Training:

• Develop energy management policies for college. Establish a procurement policy that is energy saving and eco-friendly.

• Conduct awareness and training programs for faculty, student and nonteaching staffs and Conduct seminars, workshops and exhibitions on energy management education.



Fig 8. Data Collection by Audit Team during the Energy Audit



Chapter V

WATER AND WASTE AUDIT

V.1. Water usage in Sree Narayana College, Kannur

The following is water usage pattern noticed in the college during water audit.

Water usage:

SI.	Purpose	Quantity
1	No of bore well	1
2	No of faucet	6
3	No of toilet	119
4	No of toilet flush	6
5	No of water taps including	320
	washbasin taps	
6	No of wells	1
7	Water cooler	4

V.2. WATER AUDIT

Sl. No	Tap name*/ Tap no.	Type of the tap (plastic/ brass etc.)	Condition (poor/moder ate/ good	Avg. number of people using per day	Avg. time per head per day	Avg. amount of water releasin g per minute	Leak ing or not	If leaking average amount of water loss per minute
1	Kitchen taps <u>12</u>	Plastic/ steel	Moderate	650	1 hours	1	No	Nil
2	Wash basins tap <u>201</u>	Plastic /steel	Moderate	770	1.5 hours	1	Yes	-
3	Toilet tap <u>119</u>	Plastic /Steel	Moderate	700	2 hours	2	No	Nil
4	Toilet flush <u>6</u>	Plastic	Moderate	700	2.5 hours	3	No	Nil
5	Shower <u>0</u>	-	-	-	-	-	-	-
6	Health faucet <u>6</u>	Plastic	Moderate	600	30 minutes	0.5	No	Nil
7	Others 4	Steel	Moderate	8	3 hours	3	No	Nil

Water audit at Sree Narayana College, Kannur

The water audit was done during the March month where the usage of water is at the peak. The College campus uses 7930 litres of water every day. The main source of water is ground water. Water from the public water supply is also utilized. Approximately 21 litres of water are lost through the leaking of pipes per day. Proper passage of water through the pipes has to be ensured. Leakage has to be prevented and various other sources of water need to be found out as well within the campus to meet the future demand. Drip irrigation should be practiced in gardens. If water treatment system is installed at canteen and chemical laboratories, the amount of water lost through pollution can be prevented.

Preference should be given to the recycling of water in the College to maintain an Efficient Water Management system. Awareness programmes for the management of sustainable water use will be highly efficient on this campus. Efficient water saving devices should be installed in all toilets. New toilets that are to be installed should have a dual flush

system in place with sensor technology. Water management systems are to be introduced in the urinals. Consider carrying out meter readings on a regular basis in order to monitor water usage. Not only will this make checking water bills much easier but it will also allow a baseline to be set from which further reductions can be measured, as well as possibly altering the any leaks.

V.3. Existing water management methods adopted in the campuses

- Rainwater collection pits are dug in order to recharge groundwater.
- Rainwater harvesting system is functioning.
- Started to add more greenery in order to improve ground water resources.
- Water conservation and green awareness campaigns have been conducted on behalf of National Service Scheme (NSS).
- Awareness programme had been organized to save water.

V.4. Waste measure and its disposal

In connection with the Environment audit total solid waste generated per day from the various sources of the college was measured. The details are given below

- Total stakeholders 2668
- Classroom 49
- Other Rooms 31
- Number of hostel inmates 68
- Number of Garbage Dumps : 11
- Number of toilets 17
- E wastes (computers, electrical and electronic parts)- by selling: 10.5Kg/Month
- Plastic waste Burning, dumping pit Nil :7.3 Kg/Month
- Solid wastes (damaged furniture, paper & paper plates, food waste): 36.5Kg/Month
- Chemical waste (laboratory): 3.5Kg/ Month
- Waste water- Washing, urinals, bathrooms: 2450 L
- Glass waste (broken glass wares from the lab): 1.5 kg/Month

1

- Waste treatment: 105 Kg/Month
- Napkin incinerator

Quantity of waste generated in the campus

- Biodegradable 38 kg/month
- Non-biodegradable 19.55 kg/month
- Hazardous waste Nil
- Canteen waste (biodegradable) 32kg/day
- Canteen waste (non-biodegradable) 1.5 kg/day
- Recyclable 7 kg/month

Proper waste disposal measures have to be adopted in the college. A composting pit is highly essential for the treatment of biodegradable waste generated from the canteen, hostels, food leftover by students and staff, office, vegetable garden and from the College campus cleaning process. Different methods such as pit composting, vermi-composting, bacterial composting using bacterial consortium may be used to treat the biodegradable waste. E-waste, plastic and glass bottles, other plastic wastes, cans, broken glass wares, tins etc., may be recycled or sold out.

Properly label all waste containers, close the waste containers to minimise exposure to atmosphere, and contact the collaborating waste disposal agency for a pick up.

Laboratories should be asked to maintain the purchase of smallest quantities of chemicals for particular purposes and share surplus chemicals with other laboratories. Laboratories shall be asked to perform minimum scale experiments and keep software assisted chemical storage data to avoid duplicate purchases.

Hazardous waste Satellite accumulation areas can be maintained under strict and proper guidelines. The guidelines should address the requirements of the satellite storage area, properties of storage containers, storage limit and storage period before pick up. Proper labeling of the storage containers can be done which will ease the disposal process.

Individual safety of the students and staff working in the laboratories should be ensured along with the waste management guidelines. The College can provide the safety wears to all in the laboratory and wearing them should be made mandatory. Safety alarms can be installed in all laboratories and students can be given training to use fire extinguishers in emergency situations of fire and explosion. Fire extinguishing cylinders should be installed in all laboratory areas. In addition, eye bath facility and open area showers can be introduced in front of all chemical laboratories. First aid boxes should be installed in all departments to help students who can possibly be injured while performing an experiment.

Eventhough the college is managing waste material in a properway; the College has missed a few major recycling opportunities, with the exception of food waste from the dining halls. Installation of more sanitary napkin destroyers at ladies' hostels, waiting room and enhance the capacity of existing incinerator in girl's hostels and campus. Different coloured bins may be placed in order to collect and segregate various types of waste. Training and campaigns in cotton bag making for students and staff will reduce the use of throw away plastic carry bags. Periodical training in health & hygiene, waste management and disposal, green healthy practices may inculcate a positive attitude for a clean and healthy living.

There should be proper sign boards display to tell students where to go for the disposal of other recyclables, plastics and hazardous waste. There should be in place a policy for the handling and disposal of hazardous materials. The College should have plans for dealing with hazardous waste in academic departments as well as the maintenance activities. The College should ensure that the hazardous materials are disposing in a proper way. The chemistry department may change their chemical waste disposal to eco-friendly method. Green chemistry is the utilisation of a set of principles that reduces or eliminates the use or generation of hazardous substances in the design, manufacture and application of chemical products.

College is committed to manage chemical wastes produced in its practical in a safe and environmentally sound manner that complies with all applicable central and state government regulations. At present, the College does not have a proper waste management system and a little wasteis reaching the environment (air and water). Since the College has a strong commitment to protect the environment and to be abide by the regulations of the government, in next five years can plan to introduce "Chemical's Waste Management Guidelines".

The College should develop and implement proper management practices in the handling, storage, and disposal of chemical wastes that are generated in its laboratories. The handling and storage will be the areas where College can take adequate steps in the campus itself while disposal can be done in cooperation with a suitable outside agency.

The handling and storage should be strictly according to the "Chemicals Waste Management Guidelines".

As part of the guidelines, hazardous waste determination will be carried out for the waste from all laboratories and it will be stored in separate appropriate containers. As part of the hazardous waste management, the laboratories will take essential steps to minimize the quantity of waste, set up a satellite accumulation area.

V.5. Existing waste management methods practiced

- Cleaning the campuses on daily basis
- Installed Biogas plant for biodegradable waste disposal
- Installed Incinerators for sanitary napkin disposal
- Installed Plastic bottle collection (bottle booth)
- Open dumping of biodegradable waste
- Strictly banned use of paper cup and paper plate in the campus and promoted use of steel cup and steel plate.

Chapter VI

CONSOLIDATED STATEMENT OF AUDIT FINDINGS

VI.1. Audit findings:

Environment Audit (Green Audit) will create a greater appreciation and understanding of the impact of the College's actions on the environment. An overall finding of the onsite audit is that Sree Naraysna College is conscious about their Environment health. College has successfully been able to identify the impacts on the environment through the various auditing exercises. The green auditing exercise has brainstormed and provides insights on practical ways to reduce negative impact on the environment. Participating in this green auditing procedure has gained knowledge about the need of sustainability of the College campus. It will create awareness around the use of the Earth's resources in your home, College, local community and beyond. College should adopt an Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact of its purchasing decisions. White good producing companies are rapidly developing in the area of energy efficiency. Many computer hardware and electrical supply companies now cooperate with customers to reclaim old or damaged parts. Although over twice as expensive up front, LCD monitors are estimated to use 30-40% less energy overall than CRTs. All computers purchased by the College have an Energy Star rating, which is beginning to be a standard requirement for computers.

VI.2. Preparation of action plan

Administrators' policies referring to College and approach towards the use of resources need to be considered in purview of green audit report. An environmental policy should be formulated by the Administrator of the College. The College should have a policy on green awareness raising or training programmes for students and staff, green awareness policy right from kitchen staff to procurement policy by the Syndicate. Based on the policies, College should have an action plan. The green audit report will be a base line for the action plan to be evolved.

VI.3. Follow up action and plans

Green Audits are exercises which generate considerable quantities of valuable environmental and resource management information. The time and effort and cost involved in this exercise is often considerable and in order to be able to justify this expenditure, it is important to ensure that the findings and recommendations of the audit are considered at the correct level within the organisation and action plans and implementation programmes based on the audit findings. Audit follow up is part of the wider process of continuous improvement. Without follow-up, the audit becomes an isolated event which soon becomes forgotten in the pressures of organisational priorities and the passing of time.

VI.4. Environmental Education:

The following environmental education programmes may be implemented in the College campus before the next green auditing: -

Training programmes in solid waste management, liquid waste management, setting up of biodiversity garden, tree management, medicinal plant nursery, butterfly garden, vegetable cultivation, water management, energy management, landscape management, pollution mitigation methods, and water filtration methods.

- Display of environmental awareness board such as Save water, save electricity, no wastage of food/water, no smoking, switch off light and fan after use, plastic free campus etc.,
- Give priority to environmental clubs and its programmes
- Set up model rainwater harvesting system, vegetable garden, medicinal plant garden, butterfly garden etc,
- Conduct exhibition on throw away plastic danger, recyclable products etc
- Display various slogans and pictures to protect environment
- Implement chemical treatment system for wastewater from the laboratories and incinerators,
- Different coloured waste bins have to be placed to segregate waste and its easy collection.

Chapter VII

CONCLUSION AND RECOMMENDATIONS

Environment audit is the most efficient way to identify the strength and weakness of environmentally sustainable practices and to find a way to solve problem. Green Audit is one kind of professional approach towards a responsible way in utilising economic, financial, social and environmental resources. Green audits can "add value" to the management approaches being taken by the College and is a way of identifying, evaluating and managing environmental risks (known and unknown). There is scope for further improvement, particularly in relation to waste, energy and water management. The College in recent years considers the environmental impacts of most of its actions and makes a concerted effort to act in an environmentally responsible manner. Even though the College does perform fairly well, the recommendations in this report highlight many ways in which the College can work to improve its actions and become a more sustainable institution.

VII.1. Suggestions

Some of the very important suggestions are: -

- i. Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact of its purchasing decisions.
- ii. Collaborate for Interdisciplinary Approaches- Convene college faculty and administrators with environmental practitioners to develop interdisciplinary approaches to curricula, research initiatives, operations, and outreach activities that support an environmentally sustainable future.
- iii. Educate for Environmentally Responsible Citizenship- Establish programs to produce expertise in environmental management, sustainable economic development, population, and related fields to ensure that all university graduates are environmentally literate and have the awareness and understanding to be ecologically responsible citizens.
- iv. Increase Awareness of Environmentally Sustainable Development- Use every opportunity to raise public, government, industry, foundation, and college

awareness by openly addressing the urgent need to move toward an environmentally sustainable future.

- v. Increase education on reduce, reuse, and recycling of resources and waste products in the campus.
- vi. Increase recycling education on campus.
- vii. Involve All Stakeholders- Encourage involvement of government, foundations, and industry in supporting interdisciplinary research, education, policy formation, and information exchange in environmentally sustainable development. Expand work with community and nongovernmental organizations to assist in finding solutions to environmental problems.
- viii. Practice Institutional Ecology- Set an example of environmental responsibility by establishing institutional ecology policies and practices of resource conservation, recycling, waste reduction, and environmentally sound operations.

VII.2. Recommendations

- Adopt an environment policy for the College.
- > Appoint a green protocol officer at college level.
- Arrange training programmes on environmental management system and nature conservation.
- Avoid plastic/thermocol plates and cups in the College level or department level functions.
- Conduct carbon neutral project at campus level.
- Conduct exhibitions for parents and public on environment and sustainable practices.
- Conduct seminars, workshops and exhibitions on environmental education.
- > Declare the campus plastic free and implement it thoroughly.
- Develop butterfly gardens that arouse appreciation towards flora and fauna diversity.

- Dig sufficient rain water pits in the college campus wherever possible and maintain it regularly.
- > Display boards of fauna diversity to generate enthusiasm for learners.
- Ensure participation of students and teachers in local environmental issues.
- Establish a purchase policy that is energy saving and eco-friendly.
- Establish an E-waste collection centre in campus.
- Establish water, energy and waste management systems.
- Grow up vegetable garden and medicinal garden and gradually develop it as a nursery.
- Install Biogas plant and Compost units
- Install Incinerators to dispose sanitary napkins
- > Install rain water harvesting system in all roof top and ground.
- > Install Solar panels wind energy harvesting system to generate electricity
- Install waste water system for chemistry labs.
- > Introduce add-on courses eco-friendly income generating to all interested students.
- Layout 'Green Chemistry' that reduces or eliminates the use or generation of hazardous substances in the design, manufacture and application of chemical products.
- Name all the trees and plants with its common name and scientific name.
- Organize earn while learn eco-friendly programmes
- Renovation of cooking system in the canteen to save gas.
- Replace incandescent and CFL lamps with LED lights.
- Replace LCD computer monitors with LED monitors.
- Set up water recycling unit where the recycled water can be used for gardening in College and hostels.

 Sound level should be minimized by awareness and through the prohibition of horn by the vehicles within the University premises.

VII.3. Commitments after Green Auditing:

In the light of Environment audit or green audit, the College should, adopt some additions in the vision and mission statements promoting compliance with environmental laws and regulations for sustainable existence of the College.

VII.4. Vision Statement

Sree Narayana College is committed to becoming an innovative leader among academic institutions in the areas of environmental education and research and in the practice of environmental management and stewardship.

The College is obliged to the principle of sustainable development, and will use its resources in a manner that does not compromise the ability of future generations of the College and global communities to meet their needs.

VII.5. Mission Statement

Sree Narayana College is devoted to promote the environment management and conservation in the College campus and community with the purpose to identify, quantify, describe and prioritize framework of environment sustainability in compliance with the applicable regulations, policies and standards.

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Marine

Dr. Manoj K

Coordinator Consultancy Division Department of Environmental Studies Kannur University



Fig 9. Awareness Class of Environmental Audit



Fig 10. Audit Team



Fig. 11. NSS Volunteers of Sree Narayana College, Kannur involved in assisting the Audit team

Appendix -1

SREE NARAYANA COLLEGE, KANNUR

PRE-AUDIT QUESTIONNAIRE - ENVIRONMENT AUDIT

Guidelines

The purpose of this questionnaire is to gather the necessary information on the audit site prior to undertaking an on-site audit. The questionnaire covers each area of environmental concern and is supplemented by information checklists for each of these areas. This questionnaire is designed to familiarize the environmental audit team with the site operations prior to the audit visit, while information checklists highlight a list of the documents required prior to the audit.

Please complete the forms as thoroughly and accurately as possible. Where a question does not apply or cannot be answered, please respond with not applicable or unknown. Respondents are encouraged to provide responses which reflect the actual conditions as opposed to the 'ideal' situation. Provision of pertinent information prior to the audit visit will allow the audit team to be adequately prepared resulting in a more effective audit.

SL	FORMS	DESCRIPTION	LINK
NO			
1.	Form-1	General	https://forms.gle/sj7Aj6Aeo5h3zpgM6
		Departmental	
		Information	
		(Building)	
2.	Form-2	Overall	https://forms.gle/BwtNpaz1fgZN34qWA
		Environmental	
		Management	
		Information	
		(Departmental Level)	
3.	Form-3	Materials	https://forms.gle/TCWHrFcmiZwGUzRJ7
		Procurement Policy	
		(Departmental Level)	
4.	Form-4	Energy Management	https://forms.gle/DTzRVjVqcVWCrXnz9
5.	Form-5	Material	https://forms.gle/ivztweAWpZxwiV2UA
		Management (Office	
		Operation)	

Note: Unlessotherwise specified, references made to 'premises' or 'area' in this questionnaire generally refer to premises which the respondent represents

6. Form-6 Material https://forms.gle/DLXBB3f86phTxUKV6 Management (Laboratory 0peration) 7. Form-7 Material https://forms.gle/XiysYuHMnuViZ1Np9 Management (Pesticide) https://forms.gle/fhFg5ZNHVAkgrWuY 8. Form-8 Material Management https://forms.gle/fhFg5ZNHVAkgrWuY (Asbestos) https://forms.gle/fhFg5ZNHVAkgrWuY 9 Form-9 Water Supply https://forms.gle/HQq3wkaXFgdwwtuu5 Management Management https://forms.gle/lipKP8TEPUBFVEBN9 10 Form-10 Wastewater https://forms.gle/lipKP8TEPUBFVEBN9 Management 11 Solid Waste https://forms.gle/p1t85D2KXjncpTga7 Management 12 Form-12 Air Quality https://forms.gle/AUWRHh7D93RfDoU Monitoring and Control (General) 13 Form-13 Air Quality https://forms.gle/LLEcZiuRqVBrDicv7 14 Form-14 Noise Monitoring https://forms.gle/D6PEt1WbUxc1DPT45 15 Form-16 Emergency Response https://forms.gle/Uiv8mjBhYfgnktTQ6	
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Love nature.....Save future

KANNUR UNIVERSITY (NAAC Accredited with B grade) DEPARTMENT OF ENVIRONMENTAL STUDIES Mangattuparamba Campus Kannur University (PO); Mangattuparamba, Kannur, Kerala - 670567 Tel: 0497 2781043; E-mail : hodevs@kannuruniv.ac.in

<u>CERTIFICATE</u>

This is certified that this **Energy Audit Report** submitted to the Sree Narayana College, Kannur is an authentic report of Energy audit done by the Audit Team of the Department of Environmental Studies of Kannur University at Sree Narayana College, Kannur during the period from 22nd to 27th March 2022.

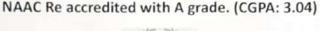
Dr. Pradeepan Periyat

HEAD DEPARTMENT OF ENVIRONMENTAL STUDIES KANNUR UNIVERSITY MANGATUPARAMBA, KANNUR KERALA - 670 567



Place: Mangattuparamba Date: 30/03/2022

SREE NARAYANA COLLEGE KANNUR P. O. THOTTADA 670007 (AFFILIATED TO KANNUR UNIVERSITY)





Dr. Satheesh. C. P Principal in charge Email: sncollegekannur@gmail.com Ph:04972731085

Action Taken Report 2019-2020

The college regularly conduct Green and Energy audit, Subsequent to the reports provided by these auditing agencies, the following measures have been put into effect:

- Tree Plantation Drive: A tree plantation drive has been initiated to increase the carbon credit and greenery of the campus. A wide variety of ornamental plant spices and medicinal trees are being planted to enhance the campus environment.
- Restricted Use of Plastic Inside the Campus: A rigorous policy on plastic use has been followed effectively to reduces plastic waste and foster a cleaner and more sustainable environment.
- Encouragement of Steel Glasses, Bottles, and Plates: The institution encourages the use of steel glasses, bottles, and plates to reduce the use of single-use plastics and other disposable items.
- Campus Green Protocol Display: The Green Protocol followed by the college is prominently
 displayed on campus. This serves as a constant reminder of the eco-friendly practices
 followed at the institution and inspires the community to contribute to our green initiatives.
- Display Boards: display boards are strategically placed across campus to raise awareness about energy conservation. These boards remind everyone of the importance of preserving this critical resource.
- Awareness Campaigns: To promote energy conservation and sustainability, awareness
 campaigns have been organized regularly. These campaigns educate students, faculty, and



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staff about the importance of energy conservation, methods to reduce energy consumption, and the benefits of adopting sustainable practices.

 Implementation of Energy-Efficient Practices: Following the recommendations of the energy audit, the college has initiated the implementation of energy-efficient practices across campus buildings. This includes the installation of LED lighting systems, and energy efficient appliances.



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SREE NARAYANA COLLEGE KANNUR P. O. THOTTADA 670007

(AFFILIATED TO KANNUR UNIVERSITY)

NAAC Re accredited with A grade. (CGPA: 3.04)



Dr. Satheesh. C. P Principal in charge Email: sncollegekannur@gmail.com Ph:04972731085

Achievement Report 2019 - 20

In alignment with the recommendations provided by Green and Energy Audit agencies, the college has successfully implemented several initiatives aimed at promoting sustainability, energy conservation, and environmental stewardship. Below is a detailed account of the achievements for the period of 2020-22

1. Tree Plantation Drive

- Initiated a large-scale tree plantation drive across the campus to enhance greenery and increase the institution's carbon credit.
- A diverse collection of ornamental plant species and medicinal trees were planted, contributing to biodiversity and ecological balance.
- The initiative has significantly improved the campus's environmental quality, creating a serene and eco-friendly atmosphere.

2. Restricted Use of Plastic Inside the Campus

- · Successfully enforced a stringent policy restricting the use of plastic within the campus.
- This initiative has drastically reduced plastic waste, fostering a cleaner, greener, and more sustainable campus environment.

3. Promotion of Sustainable Alternatives

- · Encouraged the use of steel glasses, bottles, and plates among students, faculty, and staff.
- This shift has minimized reliance on single-use plastics and disposable items, promoting sustainable living practices within the community.



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4. Campus Green Protocol Display

- The Green Protocol adopted by the college is prominently displayed at key locations around the campus.
- These displays serve as constant reminders of the institution's eco-friendly practices and inspire the college community to actively participate in green initiatives.

5. Awareness Through Display Boards

- Strategically placed display boards across the campus to promote energy conservation.
- The boards serve as effective reminders of the critical importance of saving energy and adopting sustainable practices.

6. Awareness Campaigns on Sustainability

- Organized regular awareness campaigns to educate students, faculty, and staff about energy conservation and sustainability.
- Campaigns highlighted actionable steps to reduce energy consumption and the long-term benefits of adopting eco-friendly practices.
- · These efforts have created a more informed and responsible campus community.

7. Implementation of Energy-Efficient Practices

- Transitioned to energy-efficient practices as recommended in the energy audit.
- Installed LED lighting systems throughout the campus, significantly reducing energy consumption.



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Action Taken Report 2020-2021

Following a comprehensive Green, Energy, and Environment Audit conducted for the academic year 2020-2021, Sree Narayana College Kannur has implemented several impactful measures to enhance its environmental sustainability:

- Maintenance of Gardens: The campus has been designed to serve a sanctuary for various plant and animal species, promoting biodiversity and ecological balance. On campus we maintain Butterfly garden, Botanical garden, fruit tree garden and herbal garden. It offers a vibrant, living laboratory for learning and research in environmental sciences.
- Biogas Plant: A Biogas Plant has been installed near to college canteen. It has a capacity of 2000 Ltr. And can produce Methane gas equivalent to 500 gms equivalent to LPG per day. The raw material used for the plant is the waste food from the canteen.
- Restricted Entry of Automobiles: To maintain a sustainable and ecofriendly environment a
 policy of restricted automobile entry has been followed on the campus. This initiative
 significantly reduces carbon emissions and noise pollution, contributing to a cleaner, quieter
 educational atmosphere.
- To optimize water usage and promote water conservation, the college has implemented various measures recommended in the green audit. This includes the installation of waterefficient fixtures, rainwater harvesting systems, water recharge pits, open wells and the promotion of water saving practices among students and staff.



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SREE NARAYANA COLLEGE KANNUR P. O. THOTTADA 670007 (AFFILIATED TO KANNUR UNIVERSITY)

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Action Taken Report 2021-2022

Institution maintains a strong commitment to environmental sustainability and responsible living practices alongside its primary educational objectives. The institution has incorporated a comprehensive Green, Energy, and Environment Audit into its policy framework to ensure that environmental responsibility remains a central focus.

- Plastic-free campus initiatives: Plastic-free activities have helped in the generation of minimum plastic waste on the campus. Through notices, students are informed not to use plastics, and also, it is monitored that no plastic bags are used by the students and staff as well.
- Cleanliness Drive: The Institute had organized Cleanliness Drive with the students and staff. The campus and building are always maintained in a clean state. Regular cleaning is done by the assigned staff. Besides, the cleanliness drive has helped instil a sense of the importance of cleaning and hygiene in students.
- Awareness Program: Slogans on Energy Conservation, Water conservation, Conservation of Greenery etc. has been placed by the institute within the campus to aware the students towards energy and greenery conservation.
- Regular Maintenance: Strict instructions are given to faculty, staff, and students to unplug and turn off electrical appliances when not in use or after use.

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Action Taken Report 2022-2023

The college is committed to implementing, maintaining and continually improving environmental management process to reduce its environmental footprints. Ecological consciousness rising from notions to sustainability is embedded in the basic ethical outlook of the institution.

Landscaping with trees and plants: The college campus is landscaped with trees and plants. Proper maintenance is done time to time.

Minimum use of Paper: Paper usage has been reduced, as no unnecessary prints are taken by staff. Wherever possible, both sides of papers are used as well as rough papers are used.

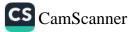
Eco-friendly practices: Each Guest who comes to the Campus is welcome by the plant sapling and not by any floral bouquet. Useful plant is offered to all the guest, who comes to interact with the students for knowledge sharing.

Hazardous Chemical Waste Management: The college have planned to minimize the use of hazardous chemical related experiments. Even though if some hazardous chemical may be form, diluted chemicals are diluted before discarding the waste basin. All hazardous chemical waste is collected in a separate tank set up outside the laboratory.

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Dr. Satheesh. C. P Principal in charge

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Achievement Report 2023-24

he college has upheld its unwavering commitment to environmental sustainability and ecological consciousness during the academic year 2022-2023. Guided by its ethical outlook towards sustainability, the institution has implemented a series of initiatives to reduce its environmental footprint. The following are the key achievements for this period:

1. Landscaping with Trees and Plants

- The campus has been thoughtfully landscaped with a variety of trees and plants to enhance its natural beauty and environmental health.
- Regular and systematic maintenance ensures a clean, green, and aesthetically pleasing environment.
- This initiative promotes biodiversity while fostering a peaceful and conducive atmosphere for learning.

2. Minimizing Paper Usage

- · Successfully implemented measures to reduce paper usage across all departments.
- Staff are encouraged to avoid unnecessary printing, and double-sided printing is utilized wherever possible.



PILLE L

PRINCIPAL REE NARAYANA COLLEGI KANNUR



- Rough papers are repurposed effectively, contributing to a significant reduction in paper waste.
- This shift not only saves resources but also promotes a digital-first culture in administrative and academic processes.

3. Eco-Friendly Practices

- A unique and eco-conscious tradition of welcoming campus guests with plant saplings instead of floral bouquets has been established.
- This practice underscores the institution's commitment to sustainability and fosters environmental responsibility among students and staff.
- Plant saplings offered to guests serve as lasting symbols of the institution's green values and advocacy for environmental stewardship.

4. Hazardous Chemical Waste Management

- Implemented measures to minimize the use of hazardous chemicals in laboratory experiments without compromising academic rigor.
- Dilution methods are employed before discarding chemical waste to mitigate environmental risks.
- A dedicated tank outside the laboratory is used to collect all hazardous chemical waste, ensuring safe disposal practices.
- These efforts align with environmental safety standards and demonstrate the college's proactive approach to managing chemical waste.



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Dr. Satheesh. C. P Principal in charge

Email: sncollegekannur@gmail.com Ph:04972731085

Action Taken Report 2023-2024

The college regularly conduct Green and Energy audit, Subsequent to the reports provided by these auditing agencies, the following measures have been put into effect:

- Tree Plantation Drive: A tree plantation drive has been initiated to increase the carbon credit and greenery of the campus. A wide variety of ornamental plant spices and medicinal trees are being planted to enhance the campus environment.
- Waste Management Process: The college decided to reduce and manage the waste generated in the college campus. In protecting the environment, the Solid- waste generated in the campus is segregated as biodegradable and non- degradable wastes handed over to the Kannur Municipal Corporation. Proper Liquid Wate management initiatives also implemented the college campus.
- Awareness Program: Slogans on Energy Conservation, Water conservation, Conservation of Greenery etc. has been placed by the institute within the campus to aware the students towards energy and greenery conservation.
- Plastic-free campus initiatives: Plastic-free activities have helped in the generation of minimum plastic waste on the campus. Through notices, students are informed not to use plastics, and also, it is monitored that no plastic bags are used by the students and staff as well.



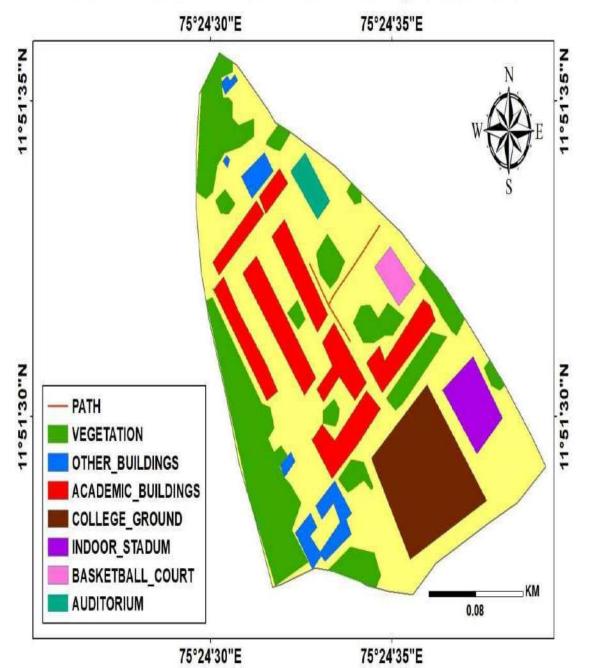
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GREEN CAMPUS INITIATIVES

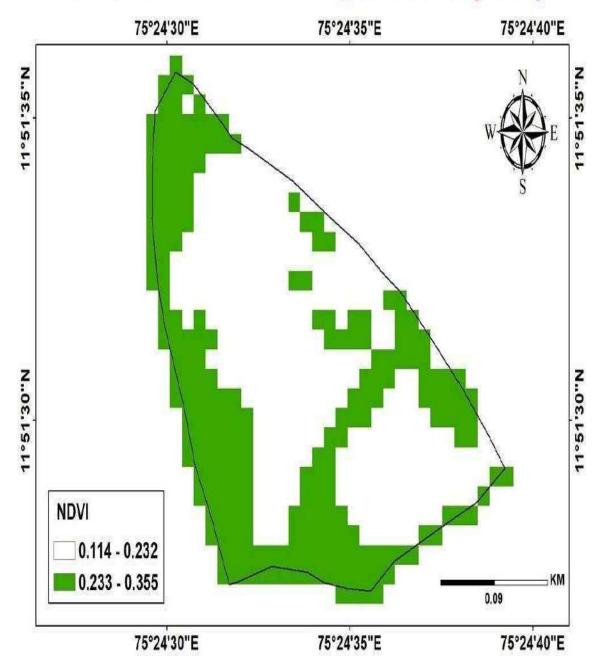
LAND USE COVER MAP (LUCM)

LULC MAP OF SN COLLEGE, KANNUR



NORNALISED DIFFERENCE VEGETATION INDEX (NDVI) OF SREE NARAYANA COLLEGE KANNUR, 2022

NDVI OF SN COLLEGE, KANNUR (2022)





TREE SAPLING BY BHOOMITHRA SENA 12/07/2018



WORLD ENVIRONMENT DAY OBSERVATION 05-06-2022







WORLD ENVIRONMET DAY OBSERVATION – 05-06-2021 TREE SAPLING CAMPAIGN



ലോക പരിസ്ഥിതി ദിനത്തോട് അനുബന്ധിച്ച് എസ് എൻ കോളേജ് എൻ എസ് എസിന്റെ ആഭിമുഖ്യത്തിൽ പരിസ്ഥിതി സംരക്ഷണ സെമിനാറും വൃക്ഷത്തൈ നടലും നടന്നു.

CAMPUS CLEANING AND PLANTATION OF TREES BY S N ALUMNI 21-08-2023



Supporting Document

CAMPUS CLEANING AND ENVIRONMENTAL AWARENESS BY NSS -07-27-2023



CAMPUS CLEANING AND GREEN CAMPUS INITAITIVES



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Supporting Document



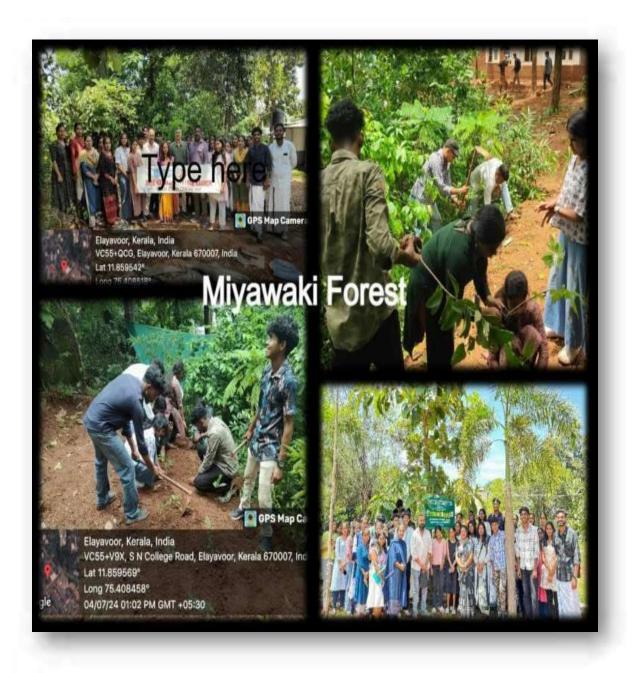






Supporting Document

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TREE SAPLING





Supporting Document

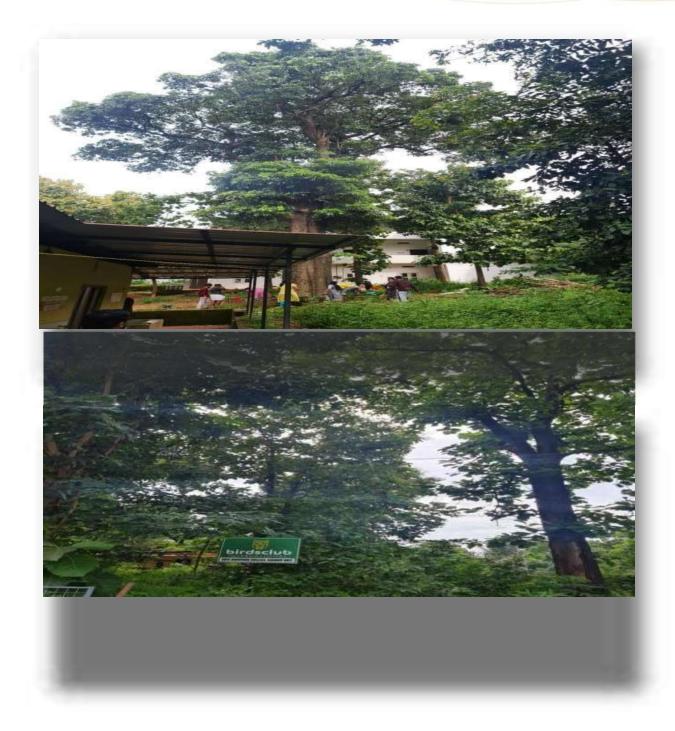
GREEN CAMPUS AND CAMPUS GARDEN





Supporting Document



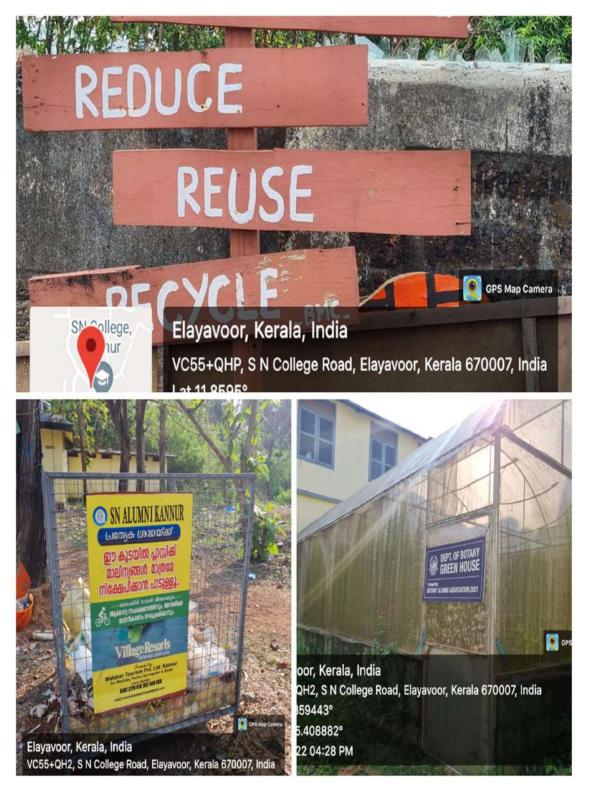


Supporting Document



ORGANIC FARMING AND HARVESTING BY NSS (2019-2023)

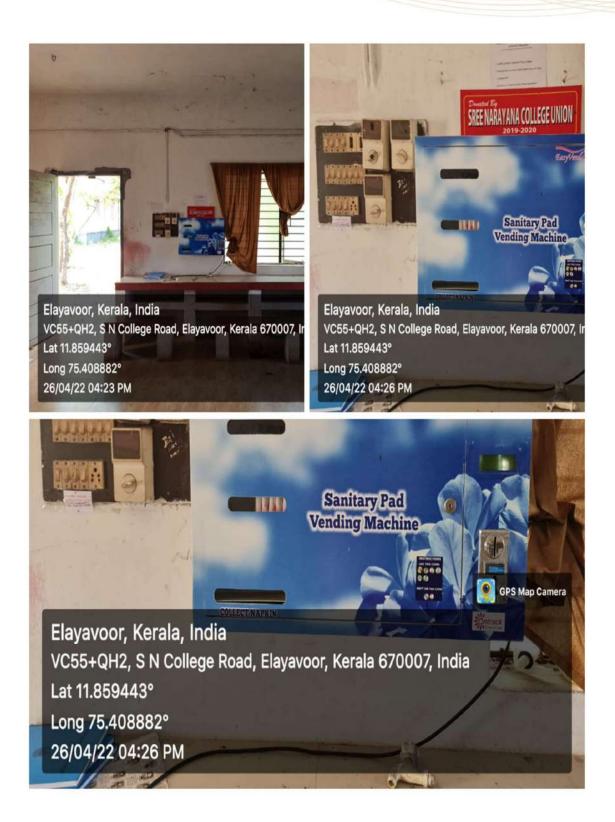
PLASTIC FREE CAMPUS



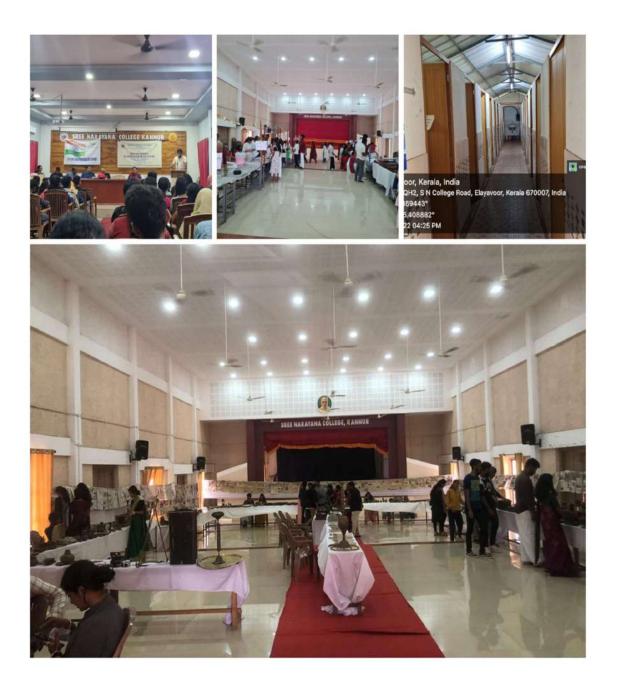
INCINERATOR



Supporting Document



LED LAMPS IN AUDITORIUM, SEMINAR HALL, CLASSROOMS



SOLAR AND BIOGAS PLANT



gle

Elayavoor, Kerala, India VC55+QH2, S N College Road, Elayavoor, Kerala 670007, I Lat 11.859443° Long 75.408882° 26/04/22 04:41 PM Elayavoor, Kerala, India VC55+V9X, S N College Road, Elayavoor, Kerala 670 Lat 11.859838° Long 75.408427° 26/04/22 03:59 PM

ORGANIC FARMING AND HARVESTING BY NSS

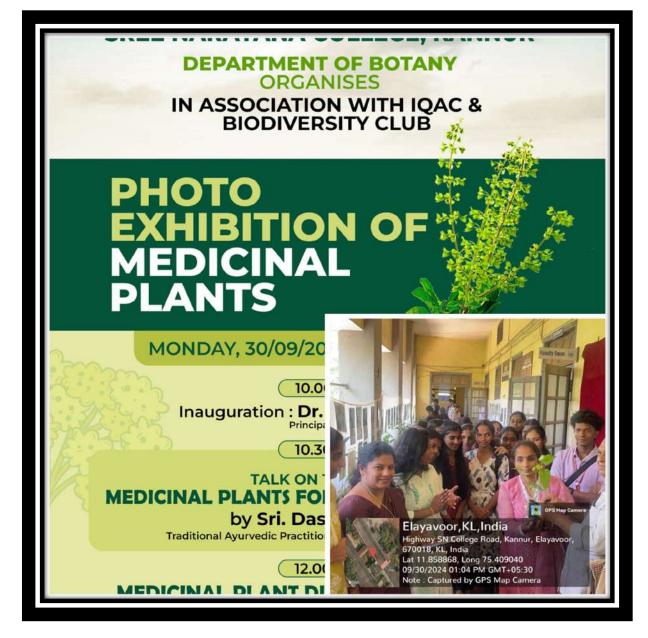


Supporting Document











PHOTOGRAPHY CONTEST – ON ENVIRONMENT CONSERVATION- 28/08/2024



Environmental Promotional Activities – Mushroom Cultivation, Budding and grafting, Vermi Composting, Terrarium Kokkadama making practices for Local Peoples (Kudumbasree)





7.1.3: REPORTS, ATTENDANCE SHEET, GEO TAGGED PHOTOS AND NEWS PAPER CLIPPINGS OF ENVIRONMENTAL PROMOTIONAL ACTIVTIES BEYOND THE CAMPUS

Table of Contents

SL NO	Particulars	Page No
1	PAVITHRA SAGARAM -BEACH CLEAN ACTIVITY	4-18
2	PAVITHRA SAGARAM – 2024 (01/10/2024)	5-6
3	PAVITHRA SAGARAM- 2023 (02/10/2023)	7
4	PAVITHRA SAGARAM – BEACH CLEAN DRIVE 2023 (08/06/2023)	8-11
5	PAVITHRA SAGARAM – 2022 (08/06/2022)	12-14
6	PAVITHRA SAGARAM – 2021 (29/12/2021)	15
7	PAVITHRA SAGARAM – 2019 (13/11/2019)	16-19
8	SN Shramadan – 2021-2024	19-28
9	SACRED GROVE CONSERVATION- Thoniyatt Kavu, Thottada	29-34
10	URJA KIRAN BRIEF Report (2019-2023)	35-57
11	Environmental Promotional Activities	58-69

PAVITHRA SAGARAM -BEACH CLEAN ACTIVITY SWACHH- NIRMAL TAT ABHIYAN

The beach clean program (Pavithra Sagaram) organized by Sree Narayana College in Kannur district is a vital initiative that underscores the importance of environmental stewardship among students and staff. Each year, volunteers from the National Service Scheme (NSS) and the Departments of Zoology and Botany come together to conduct cleaning drives at several renowned beaches, including Dharmadom, Muzhappilangad, Payyambalam, and others, which collectively stretch over 90 kilometers along Kerala's coastline. This coastal area is not only ecologically significant but also plays a crucial role in the social and economic lives of the local inhabitants. The college's beach clean campaign has garnered substantial support from the Kannur Municipal Corporation, district administration, and various NGOs, enhancing its impact. In conjunction with this initiative, the college observes World Ocean Day on June 8th, where students and staff unite to collect plastic waste, biodegradable materials, and other hazardous debris from the beaches. With the assistance of Suchithwa Mission and local authorities, the collected waste is scientifically recycled and disposed of properly. Over the years, this dedicated effort has resulted in the removal of tons of waste from these beautiful coastal areas, fostering a cleaner environment and raising awareness about marine conservation among participants and the wider community.

SL NO	Programm	ne	Location	Date	Measurement	Recycle/
					of Waste	Dispose
1	Megha	Beach	Payyambalam	01/10/2024	217 KG	
	Clean					Disposed
2	Beach Cle	ean	Chal Beach	29/08/2023	87 KG	Disposed
3	Megha	Beach	Payymabalam	08/06/2023	134 KG	Recycled &
	Clean		Beach			Disposed
4	Megha	Beach	Payyambalam	08/06/2022	164KG	
	Clean		Beach			Disposed
5	Megha	Beach	Thottada Beach	29/12/2021	45 KG	Disposed
	Clean					
6	Megha	Beach	Muzhappilangad	13/11/2019	121KG	Disposed
	Clean		Beach			

"PAVITHRA SAGARAM" PROJECT

PAVITHRA SAGARAM - 2024 (01/10/2024)

The NSS volunteers in coonection with 'Swachata Hi sewa" organised a beach clean drive at Payyambalam beach on 01/10/2024. The Mayor of Kannur Municipal Corporation Muslih Madathil Inagurated the programme and NSS Progamme Officer Miss. E Sreelatha and Mr. Sumesh P C lead the clean drive. 84 volunteers participated the programme and more than 210 Kg plastice waste and 17 Kg bio waste collected from the beach. The wastes are segrated by volunteers and scientifically disposed by authorities of Kannur Municipal Corpration



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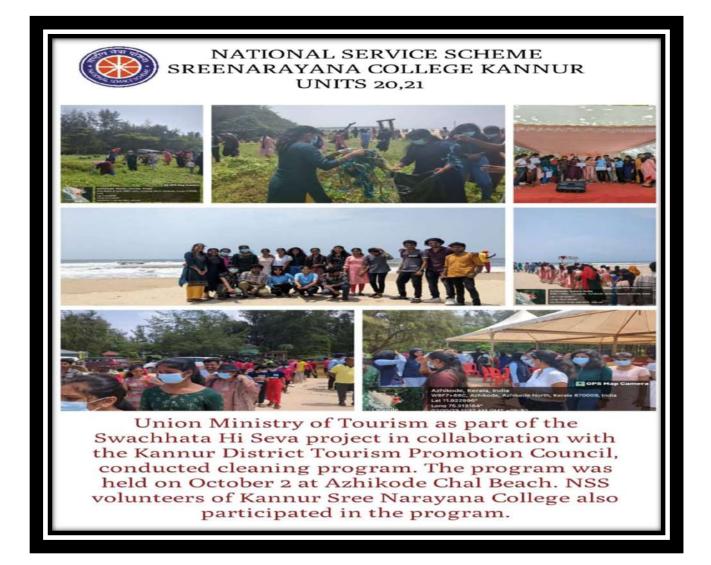
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PAVITHRA SAGARAM- 2023 (02/10/2023)

As part of *Pavithra Sagaram* project the NSS volunteers in connection with 'Swachatah Hi Sewa' cleaned Chal Beach on 02/10/2023. The programme was collobrated with Union Ministry of Tourism and District Tourism Promotion Council. The programme inaugurate by Director of DTPC and NSS Programme Officer E Sreelatah and Sumesh P C lead the programme. Fifty six NSS volunteers actively participated the programme. As part of the programme total of 153 Kg plastic wastes and bio waste collected



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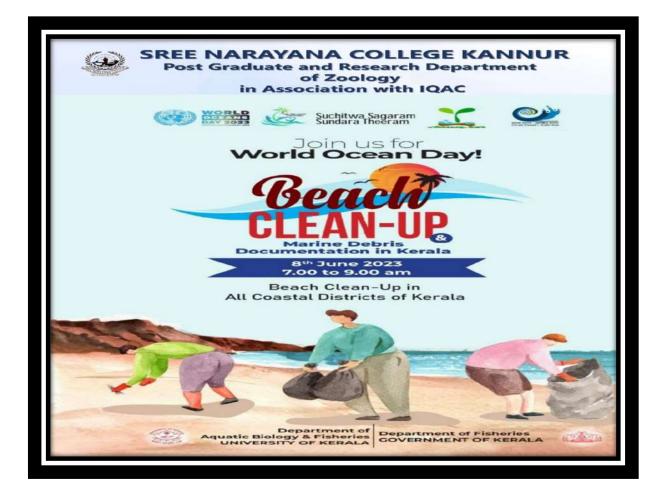
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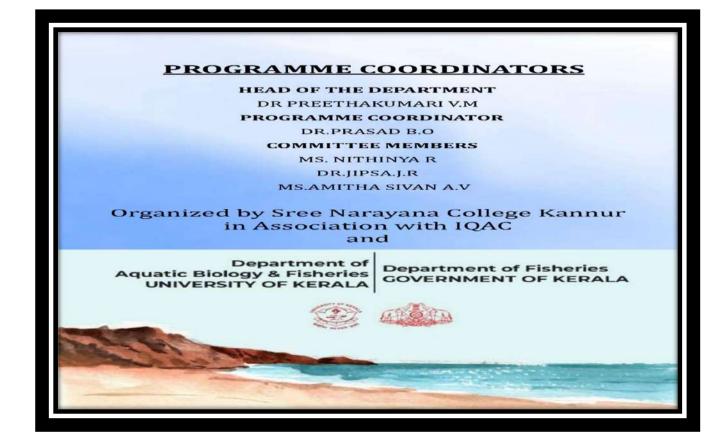
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PAVITHRA SAGARAM - BEACH CLEAN DRIVE 2023 (08/06/2023)

NSS Unit & Zoology Department of Sree Narayana College Organised a '*Pavithra Sagaram*' programme on 08/06/2023, in connection with world ocean day. The programme was associated with IQAC, Department of Aquatic Biology University of Kerala and Department of Fisheries, Government of Kerala. The programme inaugurated by Honourable Minister, Sri. Kadannapally Ramachandran, Fisheries, Govt. Of Kerala. 106 students of the Zoology Dept and staff also participated the programme. 196 Kg waste collected by this event. This programme was held in Payyambalam beach.

















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PAVITHRA SAGARAM -NSS & NCC (03/07/2023)

As part of Pavithra Sagaram project the NCC cadets & NSS Units of Sree Narayana College cleaned the Payyambalam beach. Seventy eight NCC cadets participated in the event. The Payyambalam beach is major tourist attractions in North Kerala. The Payyambalam beach extends to an area of 4.3 KM. As part of this event the Cadets collected 85 Kilograms of plastic waste and 11 Kilograms of Bio Degradable waste. The waste was scientifically disposed with the help authorities of Kannur Municipal Corporation.



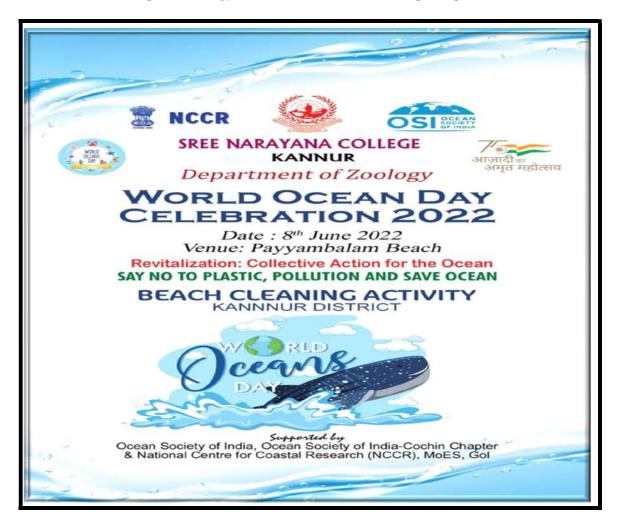


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PAVITHRA SAGARAM - 2022 (08/06/2022)

In connection with World Ocean Day (08/06/2022) The Dept. of Zoology Sree Narayana College Kannur, in association with Ocean Society of India and National Centre for Ocean Research organised a programme on Cleaning Payyambalam Beach in Kannur District. The beach has total coverage area of the beach 4 Kilometres. In this function the more than 180 kilogramme of the plastic and other non-degradable waste collected by students. The programme inaugurates Dr. Ajayakumar, Sree Narayana College Kannur, and presided by Dr. B O Prasad, Head Dept. of Zoology. In this function 103 students participated.





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PAVITHRA SAGARAM – 2021 (29/12/2021)

The NSS volunteers cleaned the Thottada Beach as part of *Pavithra Sagaram* project. The programme was held on 29 December 2021. The beach has total 2.4 kilometres, volunteers collected all the plastic and bio-degradable waste from the beach. Forty seven students participated the programme.



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PAVITHRA SAGARAM - 2019 (13/11/2019)

The NSS volinteers cleaned the Muzhappilagad Beach as part of Swachh – Nirmal Tat Abhiyaan. The programme in connection with *swachh* – *nirmal tat abhiyaan* by Ministry of Environment and Forest. The beach area contains more than seven Kilometres, NSS Volunteers cleaned 3 kilometres of the beach area. The programme inaugurated by Dr. M P Shanoj, NSS Programme Officer. Ninety Three volunteers participated the programme





NEW PAPER CLIPPINGS – BEACH CLEANING (PAVITHRASAGRAM) MUZHAPPILANGAD ON 23/11/2019



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SN Shramadan – 2021-2024

The *SN Shramadan* initiative is a significant environmental program organized annually by the National Service Scheme (NSS), National Cadet Corps (NCC), and various departments of the college. This program focuses on cleaning local water bodies, ponds, and wetlands in the vicinity of the college, fostering community engagement and ecological conservation.

- The primary aim of *Shramadan* is to enhance environmental awareness among students and local communities. By participating in cleaning activities, students learn about the importance of maintaining clean ecosystems and the detrimental effects of pollution.
- A critical component of the initiative is the promotion of a plastic-free environment. Students engage in activities that involve collecting plastic waste and educating community members about the impacts of plastic pollution. This aligns with broader efforts seen in various organizations aimed at reducing plastic waste and fostering sustainable practices.
- The program emphasizes the conservation of local biodiversity by cleaning habitats that are crucial for various species. By restoring these areas, students contribute to the health of local ecosystems, which is vital for both wildlife and human communities.

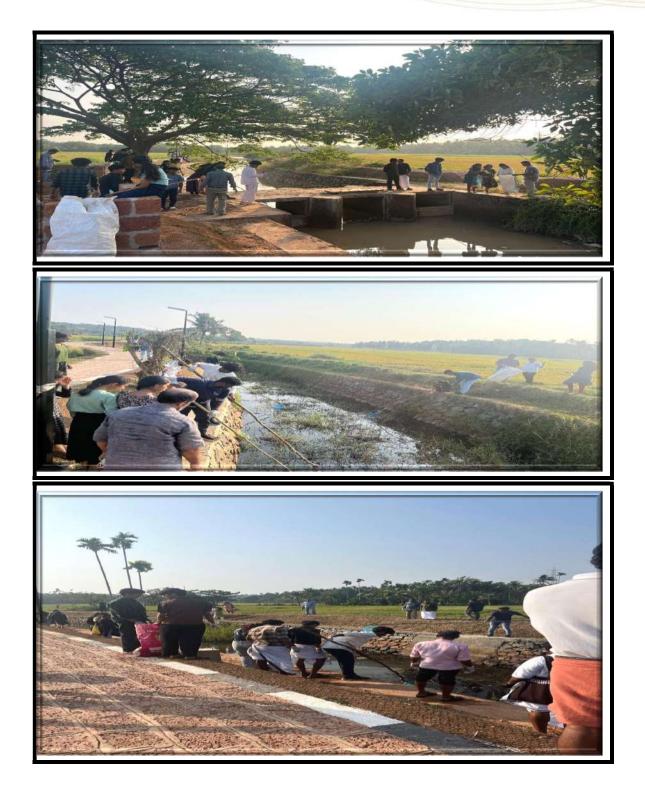
Activities Conducted

- **Cleaning Drives**: Students actively participate in cleaning drives targeting local water bodies, where they remove debris and plastic waste. This hands-on approach not only cleans the environment but also installs a sense of responsibility towards nature among participants.
- Awareness Campaigns: Alongside physical cleaning efforts, awareness campaigns are conducted to educate both participants and local residents about plastic pollution and its effects on marine life and ecosystems. These campaigns often include workshops, seminars, and distribution of educational materials.
- Collaboration with Local Organizations: The program collaborates with local environmental organizations to enhance its impact. Such partnerships help in sharing resources, expertise, and extending outreach efforts within the community.

Shramadan I (Kanambuzha, 04/03/2024 to 10/03/2024)

Kanampuzha was cleaned under the leadership of District Sanitation Mission and Kannur SN College NSS Unit 20,21. The cleaning was on March 4, 2024 from 3 pm to 6 pm. Volunteers from the Youth Welfare Board also participated in the clean-up.Kanampuzha Survival Committee Member Shri M.V. Janardhanan, Harita Keralam Mission District Mission Coordinator Mr. EK Somasekaran, SN College N.S. S. Coordinator Mr. Sumesh PC, Harita Keralam Mission District Resource Persons Mr. P. Sunil Dutton, Shri K. Narayanan spoke





Supporting Document



Shramadan II – Madayipara (11/10/2023)

In a noble endeavor to preserve the natural beauty of Kannur's Madayipara region, students from theDepartment of Botany at Sree Narayana College took part in a cleanliness drive, focusing on the area's vital water bodies. With great enthusiasm, the students converged upon the historically significant Jutha pond, meticulously cleaning its waters and surroundings. This eco-friendly initiative not only showcased the students' commitment to environmental conservation but also highlighted the importance of preserving Madayipara's ecological richness. Through their efforts, the Botany department reinforced its dedication to fostering a sustainable future, inspiring others to join the quest for a greener tomorrow.





Shramadan III – (Kannur South Railway Station 17/11/2022)

As part of Swachh Ta hi Seva campaign the NSS volunteers cleaned Knanur South Railway Station. 78 NSS volunteers participated the cleaning drive. The volunteers actively cleaned the premises of Railway station and collected and disposed plastics and bio degradable waste.





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Bio-Diversity Club Programme

Biodiversity register of Muzhapilangadu Panchayath have been done by Biodiversity club members of biodiversity club and botany department. The register systematically categorised the plants and species in the location of Muzhappilangad. Muzhappilangad is coastal area majority of the parts surrounded by wetlands. Mangroves covers large areas of the panchayath also varieties of fishes and frogs are living in this area.





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Supporting Document

SACRED GROVE CONSERVATION- Thoniyatt Kavu, Thottada.

CARBON SEQUESTRATION POTENTIAL OF TREESPECIES OF THONIYOTTU

KAVU, THOTTADA, KANNUR

Carbon sequestration phenomenon is the extraction of the atmospheric carbon dioxide and its storage in terrestrialecosystems for a very long period of time.

Plants store carbon for as long as they live, in terms of the live biomass. Once they die, the biomass becomes a part of the food chain and enters the soil as soil carbon. If the biomass is incinerated, the carbon is re-emitted into atmosphere. Most terrestrial carbon storage is in tree trunks, branches, foliage, and roots which is often called biomass. Forest ecosystem is one of the most important carbon sinks of the terrestrial ecosystem. Plant uptakes the carbon dioxide by the process of photosynthesis and stores the carbon in the plant tissues. Forest ecosystem plays important role in the global carbon cycle by sequestering a substantial amount of carbon dioxide from the atmosphere. Carbon sequestration" describes the process of capture and long- term storage of atmospheric carbon dioxide in a stable state. Sacred groves remained protected by the societies in the region and also playa vital role in carbon sequestration. In the present scenario, due to modernization many forest have been replaced for the development purposes of mankind. It results in massive deforestation, habitat degradation, loss of biodiversity and climate change. Although many sacred groves are also affected with human intervention and habitat destruction in the name of development. But still they remained protected as comparison to other forests. Many endangered and threatened plant

In this paper we briefly review the study of sacred groves in the light of conservation and carbon sequestration. Sacred groves forests due to their protected status possess high carbon sequestration potential, and can reduce atmospheric CO_2 effectively. Some studies have reported the carbon stock and sequestration potential of the sacred groves forest of India. However, all these sacred forests are rural and more or less resemble a reserve forest.

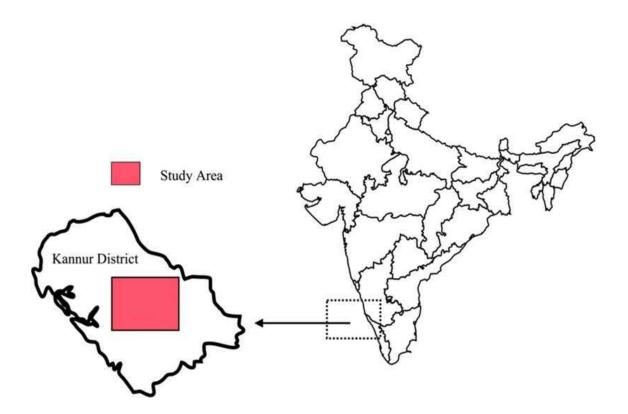
In the present study, the estimation of the biomass and carbon sequestration rates for the tree species carried out with diameter and breast height in Thoniyottu Kavu, Kannur was conducted. We investigate the extent to which a college can rely on the carbon sequestration by tree specieslocated in the Thoniyottu Kavu temple. Increasing number of infrastructural developments inside the campus is leading to the cutting down of trees with great

Supporting Document

importance, new pavements also have led to increasing temperatures which in turn causes trees to lose their life increasing carbon emissions.

In spite of conducting awareness campaigns and tree plantations, due to the nature of the soil present in the area of Thoniyottu Kavu, Kannur. The newly planted trees find it very hard to grow up. So, they die early due to the lack of water and the inability of the plants to break some hard rockswith their roots. In this present scenario where the temperature is increasing drastically and due to arising air pollution from the nearby infrastructures, it felt very much relevant to evaluate the amount of carbon sequestered by the plants present inside the sacred groves. The biomass and carbon sequestration of around a total of approximately around 24 trees was conducted inside the protected forest and the results were calculated.

Thoniyottu Kavu, is located near Thottada in the district of Kannur, Kerala. Normal temperature present in the Study area varies from 25degrees to around 40 degrees at the maximum. The total area of Thoniyottu kavu was taken into consideration and it approximately came around 2 acres of land. Since the land are of the Kavu is small, most of the areas are occupied by Shrine.







RESULT AND CONCLUSION

From the study conducted in Thoniyottu Kavu, Kannur, we could identify 24 different types of tree species. The field data of trees studied from the kavu show that *Cocos nucifera* L. tree species were dominant and are the most in number (16 to be exact). The least number of trees belonged to the followingspecies, *Cassia fistula* L., *Cephalotaxus manni* L., *Prunus dulcis* Batsch. *etc.* Accordingly the largest carbon storage value came from the following trees *Tamarindus indica* L. (3152.17kg/tree) CO2 sequestered is 11568.4639Kg, *Couroupita guianensis* Aubl. (2244.76kg/tree) CO2 sequestered is 8238.2692Kg and the least value of carbon storage came from *Cassia fistula* L.(7.11kg/tree) CO2 sequestered is 26.0937Kg, Magnolia champaca (L.) Baill. Ex Pierre *(11.42kg/tree)* CO2 sequestered is 77.9875 Kg. As the diameter of species increases its biomass and carbon storage capacity increases also sequester more carbon, removes more carbon dioxide from atmosphere.

List of species and their above ground, below ground, and total biomass with carbon is given in table 2. It is from the below findings that the type of species in a kavu to be planted is given more insight upon. It should be planted according to keeping all environmental parameters (Location/Bio- geographic Zone, Climate, Soil type, annual temperature, Ground water availability, annual rainfall, etc.) in mind. Also, the species which harvest more CO2 from atmosphere, should be planted more. This helps to ensure better environment as well as ensure the purification and the lessening of the amount of carbon dioxide in the given kavu environment where a lot of people gather together.

In this study we have found out that *Tamarindus indica* L.has sequestered themost amount of carbon inside the kavu followed by *Couroupita guianensis* Aubl. So, it is mostly advisable to plant more of plants belonging to these species as they have the capacity to sequester/regulate carbon in the atmosphere. The least amount of carbon was sequestered by *Cassia fistula*. Planting a greater number of trees with higher carbon sequestering potential would help in increasing the air quality inside our kavu and the air surrounding.

Sacred groves have a big potential to conserve existing carbon stock and increase its carbon sequestration level in future. But it is important to understand the relationship between tree species and their carbon storage potential, so that species specific conservation strategies can be adopted for management of the sacred groves areas. It is important to revive and imbibe

Supporting Document

our traditions, culture and values among younger generations to ensure the sustainable use of resources of sacred groves along with ecological education.

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C. NO:2/10/2019

23/10/2019

CIRCULAR

Department of Botany and Energy Management Conservation Agency jointly organised Urja Kiran Programme in 2019-20 academic Year. The programme focussed to campaign on energy conservation and energy management among community. This year Urja Kiran focussed to Chembilod and Puzhathi Grama Panchayath. All the teaching Non Teaching staff also student directed to actively support the programme. The Urja Kiran college level Coordinator is to Dr. Jeeshna M.V Assistant Professor, Dept. of Botany

Principal

Copy to:

All HOD's College Office Supernatant Dr. Jeeshna M V (Assistant Professor, Dept. of Botany)

Note:

Read the circular in the classroom and let it be displayed on the notice board



YANA COLLEGAT SREE NARA



C. NO:28 /11/2019

13/11/2019

CIRCULAR

It is instructed to all the NSS Volunteers participated to the *Pavithrasagaram* project to be held at Muzhappilangad Beach. The project known as Swachh Nirmal tat Abhiyan and it jointly organised by NSS and Ministry of Environment and Forest. Students are asked to participate the event without fail.

Copy to:

NSS Programme Officers All HOD's College Office Supernatant

Principal PRINCIPAL

SREE NARAYANA COLLEGA





C. NO: 217-/08/2021

27/08/2021

CIRCULAR

Department of Botany and Energy Management Conservation Agency jointly organised Urja Kiran Programme in 2020-21 academic Year. The programme focussed to campaign on energy conservation and energy management among community. This year Urja Kiran focussed to Kannur Municipal Corpration and Pattuvam Grama Panchayath.

Principal

Copy to:

All HOD's

College Office Supernatant

Dr. Jeeshna M V, Assistant Professor, Dept. of Botany

Note:

Read the circular in the classroom and let it be displayed on the notice board

REE NARAYANA COLLETAN KANNUR





C. NO:114/12/2021

29/12/2021

CIRCULAR

As part of Seven Day NSS Camp the NSS volunteers are asked to participate Pavithrasagaram project, to be held at Thottada Beach. The project focussed to clean the beach and collect all plastics and non-plastic wastes and dispose scientifically. It is also instructed to interesting students and faculties have to participate programme.

Copy to:

All HOD's College Office Supernatant NSS Programme Officers

Principal GREE NARAYANA COLLECT





C. NO:256/08/06/2022

All HOD's

College Office Supernatant

NCC & NSS Officers

08/06/2022

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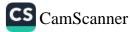
NCC and NSS units of the college jointly conducting Pavithrasagaram project at Payyambalam Beach in connection with observation of World Ocean Day. It is hereby directed all the cadets of NCC and Volunteers of NSS should attend the function without fail.

Copy to:

Principal PRINCIPAL

AREE NARAYANA COLLEGA





C. NO: 52810 /2022

14/10/2022

CIRCULAR

Department of Botany and Energy Management Conservation Agency jointly organised Urja Kiran Programme in 2021-22 academic Year. The programme focussed to campaign on energy conservation and energy management among community. This year Urja Kiran focussed to Azhikode Grama Panchayath and Kannur Municipal Corporation. All the teaching Non Teaching staff also student directed to actively support the programme.

PRINCIPAL

Copy to:

All HOD's College Office Supernatant Dr. Jeeshna M V (Assistant Professor, Dept. of Botany)

ACOLI AREE NA





C. NO:316 08/06/2023

08/06/2023

CIRCULAR

NSS Unit & Zoology Department of Sree Narayana College Organised a '*Pavithra Sagaram*' programme on 08/06/2023, in connection with world ocean day. The programme was associated with IQAC, Department of Aquatic Biology University of Kerala and Department of Fisheries, Government of Kerala. The programme inaugurated by Honourable Minister, Sri. Kadannapally Ramachandran, Fisheries, Govt. Of Kerala.

Principal

Copy to:

All HOD's College Office Supernatant NSS & NCC Officers

PRINCIP. L SREE NARAYANA COLLEGI KANNUP





C. NO 31 03/07/2023

03/07/2023

CIRCULAR

NCC and NSS units of the college jointly conducting Pavithrasagaram project at Payyambalam Beach. It is hereby directed all the cadets of NCC and Volunteers of NSS should attend the function without fail. The District Tourism Promotion Council (DTPC) also supporting the programme

Principal

Copy to:

All HOD's NCC & NSS Officers

Note:

Read the circular in the classroom and let it be displayed on the notice board

Eist SREE NARAYANA





SREE NARAYANA COLLEGE KANNUR P. O. THOTTADA 670007 (AFFILIATED TO KANNUR UNIVERSITY) NAAC Re accredited with A grade. (CGPA: 3.04)



Dr. Satheesh. C. P Principal in charge Email: sncollegekannur@gmail.com Ph:04972731085

C. NO: 715 02/10/2023

02/10/2023

CIRCULAR

NSS volunteers in connection with 'Swachatah Hi Sewa' decided to clean the Chal Beach on 02/10/2023. The programme was collobrated with Union Ministry of Tourism and District Tourism Promotion Council. The programme inaugurate by Director of DTPC and NSS Programme Officer E Sreelatah and Sumesh P C lead the programme.

Principal

-, (

Copy to:

All HOD's NSS Programme Officers



PRINCIPAL SREE NARAYANA COLLEGI KANNUR



SREE NARAYANA COLLEGE KANNUR P. O. THOTTADA 670007 (AFFILIATED TO KANNUR UNIVERSITY) NAAC Re accredited with A grade. (CGPA: 3.04)



Dr. Satheesh. C. P Principal in charge

Email: sncollegekannur@gmail.com Ph:04972731085

C. NO: 905 12 /2023

08/12/2023

CIRCULAR

Department of Botany and Energy Management Conservation Agency jointly organised Urja Kiran Programme in 2022-23 academic Year. The programme focussed to campaign on energy conservation and energy management among community. This year Urja Kiran focussed to Chembilod athi Grama Panchayath. All the teaching Non-Teaching staff also student directed to actively support the programme. The Urja Kiran college level Coordinator is to Dr. Jeeshna M.V Assistant Professor, Dept. of Botany.

Principal

IN ANAYANAN SARA

1A913NIA9

Copy to:

All HOD's College Office Supernatant Dr. Jeeshna M V(Assistant Professor, Dept. of Botany





C. NO:689 /01/102024

Copy to:

01/10/2024

CIRCULAR

NSS units of the college organised Pavithrasagaram Project at Payyambalam Beach. The project focussed to clean the beach. In connection with the programme it is decided to provide an awareness drive among local peoples.

Principal

CP315:L

NSS Programme Officers







CED

ഊർജ്ജ കിരൺ 2019 -2020

സ്ത്രീ ശാക്തീകരണത്തിലൂടെയുള്ള ഈർജ്ജ സംരക്ഷണ പ്രൊജക്

ഊർജ്ജ സംരക്ഷണ ബോധവത്കരണ സെമിനാറും ,എൽ ഇ ഡി ബഗ നിർമാണ - റിപ്പയറിങ് പരിശീലനവും ..

2020 ഫെബ്രുവരി 10 നു ഉച്ചക്ക് 1 :30 ന്

സെമിനാർ ഹാൾ ,എസ് എൻ കോളേജ് ,കണ്ണൂർ

സംഘാടനം : ഡിപ്പാർട്മെൻറ് ഓഫ് ബോട്ടണി ,എസ് എൻ കോളേജ് ,കണ്ണൂർ

സാങ്കേതിക സാമ്പത്തിക സഹായം : സെന്റർ ഫോർ എൻവിയോൺമെൻറ് ആ ഡെവലപ്മെൻറ്,എനർജി മാനേജ്മെന്റ് സെന്റർ ,കേരള

ബഹുമാന്യരേ,

രജിസ്ട്രേഷൻ:

CALEBRAN INC

സ്ത്രീ ശാക്തീകരണത്തിലൂടെയുള്ള ഈർജ്ജ സംരക്ഷണത്തിന്റെ ഭാഗമായി ക ജില്ലയിലെ വിവിധ പഞ്ചായത്തുകളിലെ ടൈലറിങ് യൂണിറ്റിലുള്ള കുടുംബശ്രീ പ്രവർത്തകരെ സംഘടിപ്പിച്ചു കൊണ്ട് ഈർജ്ജ സംരക്ഷണ ബോധവത്കരണ ക്ലാസും , സൗജന്യ എൽ ഇ ഡി ബൾബ് നിർമാണ , റിപ്പയറിങ് പരിശീലനവും ഫെബ്രൂവരി 10 ന് ഉച്ചക്ക്1 :30 ന് എസ് എൻ കോളേജ് സെമിതാർ ഹാളിൽ വച്ച് നടത്തുന്നു .

സ്വാഗതം	:	ഡോ. ജീഷ്ണ എം വിത്രൗർജ്ജ കിരൺ കോർഡിനേറ്റർ)
അധ്യക്ഷൻ	1	ഡോ കെ അജയ കുമാർ പ്രിൻസിപ്പൽ ഇൻചാർജ്, എസ് എൻ കോളേജ്ക
ഉദ്ഘാടനം	1	ശ്രീമതി പി പി ദിവ്യ (വൈസ് പ്രസിഡണ്ട്,കണ്ണൂർ ജില്ലാ പഞ്ചായത്ത്)
ആശംസ		ഡോ. കെ പി പ്രശാന്ത് ഇ എം സി റിസോഴ്സ് പേഴ്സൺ)
ക്ലാസ്	,	ഡോ. സി ആർ ലളിത (ഇ എം സി ,റിസോഴ്സ് പേഴ്സൺ)
ര പരിശീലനം	1	അബ്ബുൽ അസീസ് എൽ ഇ ഡി ബൾബ് പരിശീലകൻ കോഴിക്കോട്)
mmal		ശ്രീമതി അപർണ.പി അസിസ്റ്റൻറ് പ്രൊഫസർ, എസ് എൻ കോളേജ്, കണ്ണ

ഊർജ്ജ കിരൺ 2019-20 ദേശീയ ഊർജ്ജ സംരക്ഷണ ദിനം

2019 ഡിസംബർ 14, ശനി വൈകുന്നേരം 4.30ന് മുഴപ്പിലങ്ങാട് ബീച്ച്, ധർമ്മടം

ഉദ്ഘാടനം : **ശ്രീ. എം. പി. ഹാബിസ്**

(പ്രസിഡണ്ട്, മുഴപ്പിലങ്ങാട് ഗ്രാമ പഞ്ചായത്ത്)

- ആശംസകൾ : ഡോ. കെ. അജയകുമാർ സ്രിന്റിക്കേറ്റ് മെമ്പർ, കണ്ണൂർ യൂണിവേഴ്സിറ്റി) ഡോ. കെ.സി. പ്രീത
 - (ഐ. ക്യു എ. സി. കോഡിനേറ്റർ, എസ്. എൻ. കോളേജ്, കണ്ണൂർ) ്രി. കെ. എം. ജനാർദ്ദനൻ (സൂപ്രണ്ടന്റ്, എസ്. എൻ. കോളേജ്, കണ്ടൂർ)

സാങ്കേതിക സാമ്പത്തിക സഹകരണം സെന്റർ ഫോർ എൻവിയോൺമെൻറ് & ഡവലപ്മെന്റ് എനർജി മാനേജ്മെന്റ് സെൻറർ, കേരള

സംഘാടനം ബോട്ടണി വകുഷ്, എസ്. എൻ.കോളേജ് , കണ്ണൂർ

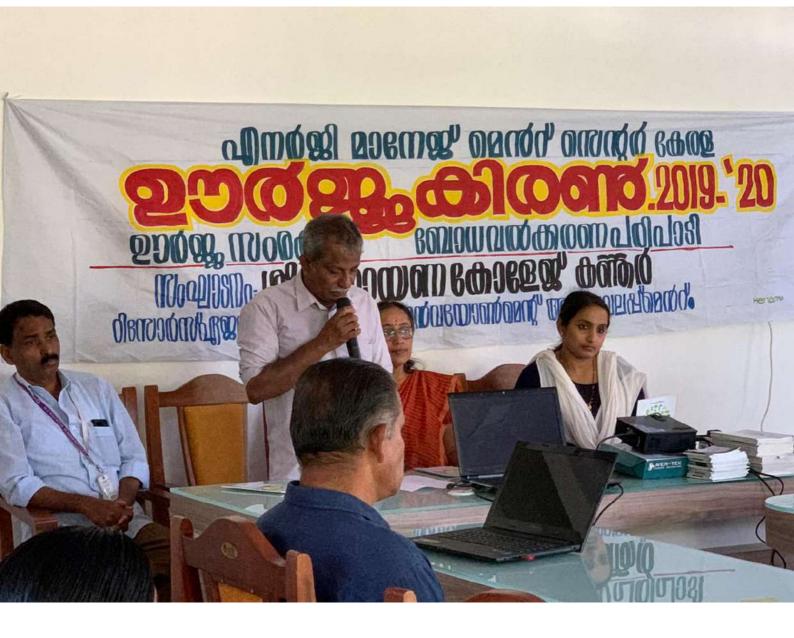




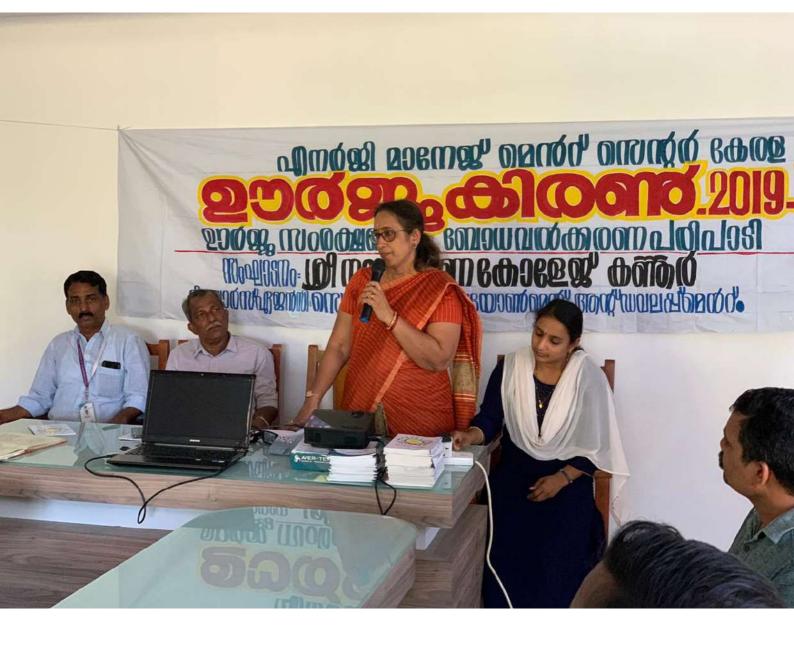


















ഊർജ്ജ കിരൺ 2019–20 ഊർജ്ജ സംരക്ഷണ ബോധവൽക്കരണ പരിപാടി

സ്ഥലം: പട്ടുവം ബാങ്ക് ഹാൾ തീയ്യതി : 08.02.2020



സ്വാഗതം	: ഡോ: ജീഷ്ണ എം.വി.
	(കോ-ഓർഡിനേറ്റർ, ഊർജ്ജ കിരൺ)
ഉദ്ഘാടനം	ം ആനക്കീൽ ചന്ദ്രൻ
	(പ്രസിഡൻറ്, പട്ടുവം പഞ്ചായത്ത്)
ആശംസ	ം ഷീജ പി.
	(വൈസ് പ്രസിഡന്റ്,പട്ടുവം പഞ്ചായത്ത്)
ക്ലാസ്	: ഡോ: സി. ആർ.ലളിത
	(ഇ. എം.സി, റിസോഴ്സ് പേഴ്സൺ)
നന്ദി	: കിരൺ വൈഷ്ണവ്
സംഘാടനം	: ഡിപ്പാർട്ട്മെന്റ് ഓഫ് ബോട്ടണി,
	എസ്. എൻ. കോളേജ്, കണ്ണൂർ
സാങ്കേതിക സാന	വത്തിക സഹായം : എനർജി മാനേജ്മെന്റ് സെന്റർ,
	ഥാർ എൻവിയോൺമെൻറ് & ഡവലപ്മെന്റ്
140 March 199	

തിരുവനന്തപുരം

റ്രിപ്പോർട്ട് ഈ ഫോർമി ്ഥ എഴുതാതെ ഇത് മാത്യകയാക്കി പ്രത്യേകം തയ്യാറാക്കുക)

എനർജി മാനേജ്മെന്റ് സെന്റ്M കേരള

സെന്റ് നോമ്പ് എൻവയോൺമെന്റ് ആൻഡ് ഡെവലപ്മെന്റ് ഊർജ്ജ കിരമ 2019-20

ഊർജ്ജ സംരക്ഷണ ബോധവൽക്കരണ പരിപാടി

പാർട്ട് -എ പ്രവർത്തന റിപ്പോർട്ട്

- 1. സ്ഥാപനത്തിന്റെ പേര് : Sree Narayana College, Kannur

 2. അംഗീകരിച്ച പരിപാടികൾ : 3 number ജില്ല : Kannur ക്ലാസ്സുകളുടെ എണ്ണം : 3 അനുവദിച്ച തുക (രൂപ) :12,000/
- **3. ചെയ്ത് തീർത്ത** പരിപാടികൾ

ജില്ല : 3 ക്ലാസ്സുകളുടെ എണ്ണം : 3 ആകെ പങ്കെടുത്ത ഉദ്യോഗസ്ഥർ: 127 (ഓരോ സ്ഥലത്തും പങ്കെടുത്തവർ ഒപ്പിട്ട ലിസ്റ്റ് മേലധികാരി സാക്ഷ്യപ്പെടുത്തിയത് റിപ്പോർട്ടിന് ഒപ്പം അയക്കുക): Attached ചിലവായ തുക (രൂപ) : 12050/-

: 3

4. അനുവദിച്ച ഏ്തെങ്കിലും പരിപാടികൾ ചെയ്യാ□□ ബാക്കിയുണ്ടെങ്കി□□ കാരണം: No

5. പങ്കെടുത്ത റിസോർസ് പെർസൺമാരുടെ വിശദാശംസങ്ങ 🗆 :

ക്ര.നം.	പേര്, മേൽ വിലാസം	വിദ്യാഭ്യാസ യോഗ്യത	ഇ എം സി അംഗീകാരം ഉണ്ടോ?
1	Dr. C R Lalitha Assistant Professor Department of Botany Sree Narayana College, Kannur	M Sc, Ph D	

ആവശ്യാനുസരണം കോളങ്ങൾ കൂട്ടുകയോ കുറയ്ക്കുകയോ ചെയ്യുക

പരിപാടി നടപ്പാക്കിയ രീതി – ലഘുവിവരണം :

In the welcome speech, Dr Jeeshna, Co –ordinater of the Urja Kiran, explained about the programme conducted last four years which is based on public. This time we selected Govt. offices for our programme. The introduction about the programme was also given at first. Before conducting the programme we collected the energy consumption data from the office (From Kannur University Thavakkara and Pattuvam co-operative bank). Next Dr. C R Lalitha, EMC resource person taken the urja kiran class by playing the video provided by CED and EMC. All the participants really analysed each topics in the video. After this video Dr C R Lalitha explained some extra matters in our daily life related with energy consumption. She explained the use of Choodarapetti, use of cooker etc. We also

supplied the booklet for the participants. Before the programme we collected the electricity bill from office so during the discussion she compared the energy consumption and usage of electricity After the class the participants raised many questions which was cleared by our resource person.

7. പങ്കെടുത്തവരുടെ പ്രതികരണം (*പരിപാടിയെ കുറിച്ചുള്ള പൊതു അഭിപ്രായം, പുതിയ അറിവുകൾ):*

The programme was successfull. Each of the paricipants involved in the discussion after our class even if they are busy with their busy schedule in the office by utalizing their lunch time, brake time etc.

8. ആശയവിനിമയരീതി എന്തെങ്കിലും പുതുമയുള്ള രീതികൾ സ്വീകരിച്ചുവെങ്കിൽ വിശദമാക്കുക):

- Conversation in malayalam language
- ▶ By playing the video clips which is provided by EMC and CED
- Distributing the booklet
- > Undergoing discussion after the awareness class.

9. പരിപാടികൾ നടത്തിയപ്പോ 🗆 ഉയർന്നുവന്ന നിർദ്ദേശങ്ങളും തീരുമാനിച്ച തുടർപരിപാടികളും:

- To conduct energy auditing in each office after our programme to check the energy consumption after the class.
- Also to check the energy use level in their houses
- > They become aware on energy wastage they have done before.
- > To replace the CFL bulb with LED bulb.
- > To buy only 5 star labelled electronic items.

10.പരിപാടിയിൽ പങ്കെടുത്ത ഓഫീസുകളി 🗆 നടത്തിയ വിവരശേഖരണത്തി 🗆 നിന്ന് ഉരുത്തിരിഞ്ഞ നിർദ്ദേശങ്ങ 🗆 വ്രിവരശേഖരണ ഫോറം റിപ്പോർട്ടിന്റെ കൂടെ വക്കുക)

- > To change all CFL bulb and normal bulb with LED bulb and LED tube
- $\succ \text{ To reduce the use of A/C}$
- > To buy only the five star labeled electronic equipments.
- > To reduce the number of vehicle which is used in University.
- ➢ To conserve water

വ്രിവരശേഖരണ ഫോറം റിപ്പോർട്ടിന്റെ കൂടെ വക്കുക) : Attached.

11.പരിപാടിനടത്തിയപ്പോൾ ഉണ്ടായ വിഷമതക**ം**? പരിഹാര നിർദേശങ്ങൾ?

- To organize urja kiran programme in Govt office is very risk because many of the officers are not supporting for conducting this programe in their office. They are saying that they are not getting any time to spend for participating all the employees in their office.
- Kindly include College and private office also in this programme.

12.പരിപാടി കൂടുതൽ മെച്ചപ്പെടുത്താനുള്ള മാർഗ്ഗങ്ങ 🗆

Along with awareness class some activities should be also provided for the empolyees by street play, flashmob etc to attract them in our programme.

13.പരിപാടിയുടെ മൊത്തത്തിലുള്ള ഗുണഫലങ്ങ**ം** – ഉദാഹരണ സഹിതം..

- > Officers planed to replace all CFL bulb with LED
- Next month onwards they are planning to conduct energy auditing
- > They planned to buy five star labeled electricity items

14.പരിപാടി നടത്തിപ്പിലൂടെ ഏറ്റെടുത്ത് നടപ്പാക്കിയ സ്ഥാപനത്തിന് ഉണ്ടായ പ്രയോജനങ്ങ**ം**?

The office is expecting the reduction in the electricity bill in the next month onwards. Through this programe they can reduce the usage of electricity not only in office but also in their houses. So two in one process

- 15.യൂട്ടിലൈസേഷൻ സർട്ടിഫിക്കറ്റ്, വരവുചിലവ് കണക്കുകൾ തുടങ്ങിയവ റിപ്പോര്ട്ടിനോടൊപ്പം വച്ചിട്ടുണ്ടോ? ഉണ്ട്
- 16. പരിപാടിയുടെ ഫോട്ടോകൾ CED യിൽ അയച്ചുകൊടുത്ത തിയതിക□ (അയച്ചിട്ടില്ലങ്കി□□ കാരണം): Yes- Emailed

17.**പരിപാടിക്ക് കൊടുത്ത പ്രചാരണണങ്ങളുടെ വിശദവിവരങ്ങ**ം പ്രത്ര റിപ്പോർട്ടുകളുടെ കോപ്പി, വിഡിയോ ക്ലിപ്പുകൾ തുടങ്ങിയവ ഇമെയിലിം അയക്കുക): Yes emailed

പാർട്ട് - ബി

റിസോർസ് ഏജൻസിയുടെ സേവനങ്ങാവ വിലയിരുത്തൽ (**മചയ്യുക**)

 അപേക്ഷ സമർപ്പിക്കുന്നതിന് മുൻപുള്ള ശിലപശാല: മികച്ചത്

2. അപേക്ഷ സമർപ്പിക്കുന്നതിന് മുൻപ് ഓഫീസുമായി

ബന്ധപ്പെട്ടപ്പോളുള്ള പ്രതികരണം:

മികച്ചത്

അപ്പേക്ഷയിലുള്ള തീരുമാനത്തെക്കുറിച്ച് ഓഫീസുമായി

ബന്ധപ്പെട്ടപ്പോളുള്ള പ്രതികരണം:

മികച്ചത്

- 4. പരിപാടികളുടെ നടത്തിപ്പ് വിശദീകരിക്കാൻ നടത്തിയ ശിലപശാല: മികച്ചത്
- പരിപാടികൾ നടപ്പാക്കുന്ന വേളയി □ ഓഫീസുമായി

ബന്ധപ്പെട്ടപ്പോളുള്ള പ്രതികരണം:

മികച്ചത്

6. റിപ്പോർട്ട് തയ്യാറാക്കുന്ന സമയത്ത് ഓഫീസുമായി ബന്ധപ്പെട്ടപ്പോളുള്ള പ്രതികരണം:

മികച്ചത്

7. സാമ്പത്തിക സഹായം ലഭിക്കുന്നതുമായി ബന്ധപ്പെട്ട് എന്തെങ്കിലും പ്രശ്നങ്ങൾ? ഉണ്ടെങ്കിൽ കാരണം

ഇല്ല

8. റിസോർസ് ഏജൻസിയുടെ മൊത്തത്തിലുള്ള സേവനങ്ങ 🗆 മികച്ചത്

9. സേവനം മെച്ചപ്പെടുത്തുന്നതിനുള്ള നിർദ്ദേശങ്ങഥ? Kindly raise the sanction amount and also include some activity programme.

സ്ഥലo:Kannur

തിയതി : 25.02.2020 (റിപ്പോർട്ട് തയ്യാറാക്കിയ ആളുടെ പേര്, പദവി)

> Dr Jeeshna M V Assistant Professor Department of Botany Sree Narayana College, Kannur

(submit in the letterhead of the organization) ENERGY MANAGEMENT CENTRE – KERALA **URJA KIRAN 2019-20- ENERGY CONSERVATION AWARENESS CAMPAIGN**

STATEMENT OF EXPENDITURE

	I	T			Date: 25.02.2020
Approval No. & Date	Grant Sanctioned (Rs.)	Details of Expenditure incurred (Item wise)		No. of Participants (Total number)	Duration of Program (with dates)
CED/EMC/2387/2019- 20 Dt.15.11.2019	12000	Item Travel Stationary items Designing, printing and publishing Banner	Amount 4800/- 1200/- 4650/- 1400/-	127	One day programme Kannur University, Thavakkara Examination Branch(27.01.2020)
		Total	12050/-	_	Kannur University, Thavakkara Non- Examination Branch(27.01.2020)
		Total	12030/-		Pattuvam service co-operative bank, Taliparambha (08.02.2020)

Data: 25 02 2020

Name & Signature of the Project Coordinator

Name & Signature (with Seal) of the Finance Officer/Auditor/Accounts Officer

Name & Signature of Head of the Institution with office Seal

ENERGY MANAGEMENT CENTRE – KERALA

URJA KIRAN 2019-20 - ENERGY CONSERVATION AWARENESS CAMPAIGN UTILISATION CERTIFICATE

Sl. No.	Approval No & Date	Amount	
1	CED/EMC/2387/2019-20	Dt.15.11.2019	12000/-

- 1. Certified that out of Rs...2400/-.... of advance payment sanctioned during the year 2019-20 in favour of ...Sree Narayana College, Kannur, Kerala . (Name of institution) a sum of Rs.12050/-....Rupees Twelve thousand and fifty rupees only) has been utilized for the purpose of implementation of activities as per approval letter cited above.
- 2. Certified that I have satisfied myself that the conditions on which the advance payment was sanctioned have been duly fulfilled and that I have exercised the necessary steps to see that the money was actually utilized for the purpose for which it was sanctioned.

Kind of checks exercised

- a. Verifying vouchers with relevant sanction order
- b. Checking of the vouchers with cash/bank book
- c. Counter checking of the payment sanctions
- d. Routine General Check

Date: 25.02.2020

Name and Signature of the Head of the Institution

WOMEN EMPOWERMENT PROJECT SREE NARAYANA COLLEGE, KANNUR

ONE DAY AWARENESS PROGRAMME AND LED BULB REPAIRING AND MAKING PRACTICAL CLASS FOR THE WOMEN IN TAILORING UNIT, KANNUR

10.02.2020				
Seminar Hall, Sree Narayana College, Kannur				
60				
Women tailoring unit in Kannur District				
20000/-				
Smt. Divya P P (Vice President, Kannur Jilla Panjayath) Dr. K Ajayakumar (Syndicate Member, Kannur University Principal in charge)				
Dr. C R Lalitha (EMC, resource person) Dr. K P Prasanth (EMC, Resource person)				
Abdhul Azeez (Kozhikode)				
(Separate sheet Attached) Details including their name, Address and phone number Panjayath Name of Tailoring unit Signature				
(Separate sheet Attached) The active participants in the programme give their feed back				
Attached. Sent by mail				
Sent by mail				
Sent by mail				

Description of activities

The women empowerment programme was conducted for the selected women tailoring unit of Kannur District. About 60 members from different tailoring unit participated in our programme. After the inauguration session Dr. C R Lalitha, EMC resource person provided an energy saving awareness class for them. She explained almost all electronic equipment and proper usage for energy saving. She gives special stress for energy saving in Tailoring unit. After her class several discussion was carried out which is cleared by our resource person. We also distributed Urja Kiran booklet for them. Dr. K P Prasanth, EMC resource person also supported for clearing their doubts.

Mr. Abdul Azeez, the trainer of our programme first give them a effective class for making and repairing the LED bulb by simple languages and also by using backboard. Then he started the repairing mechanism in LED bulb by replacing mother board, bulb etc. After that he started explaining and practices each of them for the LED bulb making process. Everyone participated in bulb making process by self practice. He told them that only below fifty rupees is required for making a bulb. If you buy in bulk you will get it in very low price. So you can very easily make a small scale urjam unit along with the tailoring and also you can save energy in your work place and also in your houses. After the program we provided each of them a bulb which is made themselves. We collected their feed back which was very supportive.

Immediate impact of program if any	 Awareness on energy conservation Practical experience on LED bulb repairing and making
Expected long term impacts and the way forward	 Small scale industry starting with LED bulb making along with tailoring unit. To save energy by replacing ordinary bulb They can get good income Public service Money saving through energy conservation

Signature

Place: Kannur

Name

Date: 25.02.2020

Office seal

Designation

LED BULB REPAIRING PROGRAM (MEMBERS OF CHEMBILODE, CHIRAKKAL AND MUNDERI) on 21.03.2019

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ഊർജ്ജ കിരൺ 2021 – 22 ` ഗോ ഇലക്ട്രിക്ക് ക്വാമ്പയിൻ ' ഊർജ്ജ കാര്യശേഷിയും ഊർജ്ജ സംരക്ഷണവും വെബിനാർ

ഊർജ്ജ ഉപയോഗം മനുഷ്യ ജീവിതത്തിന് ഒഴിച്ചുകൂടാനാകാത്ത ഘടകമാണ് എന്ന കാര്വത്തിൽ സംശയത്തിന് ഇടയില്ല. വിളക്കുകൾ കത്തിക്കുന്നതിനും വാഹനങ്ങൾ ഓടിക്കുന്നതിനും, ഭക്ഷണം പാകം ചെയ്യുന്നതിനും, യന്ത്രങ്ങൾ പ്രവർത്തിപ്പിക്കുന്നതിനുമൊക്കെ ഊർജ്ജം കുടിയേ തീരൂ.. ഇന്ത്യയിൽ ഇന്ന് നാം ഉപയോഗിക്കുന്ന ഊർജ്ജത്തില് നല്ലൊരു ശതമാനം പുനരുപയോഗിക്കാൻ സാധിക്കാത്ത ഊർജ്ജ സ്രോതസ്സുകളിൽ നിന്നുള്ളതാണ്. അതായത് അസംസ്കൃത എണ്ണ കൽക്കരി, ലിഗ്നയിറ്റ്, പ്രകൃതി വാതകം മുതലായവ. ഇവയെല്ലാം തന്നെ തീർന്നു കൊിരിക്കുന്ന വിഭവങ്ങൾ ആണെന്ന് മാത്രമല്ല ഇതിൽ നിന്ന് വരുന്ന ഹരിതഗ്രഹ വാതകങ്ങളാണ് ഇന്ന് നാം അനുഭവിക്കുന്ന കാലാവസ്ഥാവ്വതിയാനത്തിനും അതിന്റെ അനന്തര ഫലങ്ങളായ അതിതീവ കാലാവസ്ഥാ പ്രതിഭാസങ്ങള്ക്കും പ്രകൃതിദുരന്തങ്ങൾക്കും കൃഷിനാഷത്തിനുമൊക്കെ പ്രധാന കാരണം.

പൊതുജനങ്ങൾക്ക് ഊർജ്ജ സംരക്ഷണത്തിന്റെ ആവശ്വകതയും അതിനുള്ള മാർഗങ്ങളും പകർന്നുനല്കാനും സംസ്ഥാനതലത്തിൽ ഊർജ്ജ സംരക്ഷണ പ്രവർത്തനങ്ങൾക്ക് രൂപംനൽകി നടപ്പിലാക്കാനുമായി ഇന്ത്യയിൽത്തന്നെ ആദ്യമായി സ്ഥാപിതമായ സംസ്ഥാനതല ഊർജ്ജപരിപാലന കേന്ദ്രമാണ് ഊർജ്ജ വകുപ്പിൻറെ കീഴിൽ പ്രവർത്തിക്കുന്ന എനർജി മാനേജ്മെന്റ് സെന്റർ കേരള, (ഇഎംസി). ഇഎംസിയുടെ പരിശീലന ബോധവൽക്കരണ പരിപാടികളിൽ സുപ്രധാനമായ ഒന്നാണ് 2015 മുതൽ നടത്തിവരുന്ന ഊർജ്ജ കിരൺ പദ്ധതി. പ്രാദേശികതലത്തിൽ സന്നദ്ധസംഘടനകൾ കോളേജുകളിലെ നാഷണൽ സർവീസ് സ്കീം തുടങ്ങിയവയുടെ പങ്കാളിത്തത്തോടെ പൊതുജനങ്ങൾക്കായി നടത്തുന്ന ഊജ്ജ സംരക്ഷണ പരിശീലന–ബോധവൽക്കരണ പരിപാടിയാണ് ഇത്. കേന്ദ്ര നഗരവികസന മന്ത്രാലയത്തിൻറെ സെൻറർ ഓഫ് എക്സലൻസ് ആയി തിരുവനന്തപുരത്ത് പ്രവർത്തിക്കുന്ന സെൻറർ ഫോർ എൻവിയോൺമെന്റ് ആൻഡ് ഡെവലപ്മെന്റാണ് ഈ പദ്ധതി സംസ്ഥാനമൊട്ടാകെ ഏകോപിപ്പിച്ച് നടപ്പാകുന്നതിനുള്ള റിസോർസ് ഏജൻസിയായി പ്രവർത്തിക്കുന്നത്. ഊർജ്ജ കാര്യശേഷിയും ഊർജ്ജ സംരക്ഷണവും എന്നാ പൊതു വിഷയത്തിന് പുറമേ ഈ വർഷത്തെ ഊർജ്ജ കിരൺ പരിപാടിയിൽ പ്രധാനമായി ചർച്ചചെയുന്ന വിഷയമാണ് 'ഗോ ഇലക്രിക് ' എന്നത്. കേന്ദ്ര ഊർജ്ജ മന്ത്രാലയത്തിന്റെ കീഴിലുള്ള ബ്യൂറോ ഓഫ് എനർജി എഫിഷ്വൻസി (ബി.ഇ.ഇ) സംസ്ഥാന സർക്കാരുകളുടെ സഹകരണത്തോടെ കഴിഞ്ഞ പരിസ്ഥിതിദിനത്തിൽ ഉദ്ഘാടനം ചെയ്ത് നടപ്പാക്കിവരുന്ന പദ്ധതിയാണ് 'ഗോ ഇലക്രിക് കാമ്പയിൻ. രാജ്വത്തെ ഗതാഗതത്തിന്റെ 100 ശതമാനവും വൈദ്യുത വാഹനങ്ങളിലേക്കും ശുദ്ധവും സുരക്ഷിതവുമായ വൈദ്വുതി ഉപയോഗിച്ചുള്ള പാചകത്തിലേക്കും നയിക്കുക, ഇന്ധന ഇറക്കുമതി ആശ്രിതത്വം കുറയ്ക്കുക, കുറഞ്ഞ കാർബൺ സമ്പദ്വ്വവസ്ഥയുടെ പാതയിൽ മുന്നോട്ട് പോകുക, കാലാവസ്ഥാ വ്വതിയാനത്തിന്റെ പ്രതികൂല ആഘാതത്തിൽ നിന്ന് രാജ്യത്തെയും ജനങ്ങളെയും രക്ഷിക്കുക എന്നതാണ് ഈ കാമ്പയിന്റെ പ്രധാന ഉദ്ദേശ്വം. മുഖ്വവിഷയത്തിന് പ്രാധാന്വം നൽകിയുള്ള വെബിനാറുകൾ, അവബോധ ക്ലാസ്സുകൾ, വനിതാസംരംദക ശാക്തീകരണ ശില്പശാലകൾ,, ഊർജ്ജ സംരക്ഷണ റാലി പ്രതിജ്ഞ, ഒപ്പുശേഖരണം തുടങ്ങിയ പരിപാടികളാണ് ഈ വർഷത്തെ ഊർജ്ജ കിരൺ പദ്ധതിയില് ഉൾപ്പെടുത്തി സംസ്ഥാനമൊട്ടാകെ 2021 ഡിസംബർ ഒന്ന് മുതൽ പതിനാല് വരെയുള്ള കാലയളവിൽ നടപ്പാക്കുന്നത്. ആസാദി ക അമ്വത് മഹോത്സവത്തിൻറെ ഭാഗമായിട്ടുകൂടിയാണ് ഈ വർഷത്തെ പരിപാടികൾ സംഘടിപ്പിക്കുന്നത്.

ചേലോറ, എളയാവൂർ, എടക്കാട്, മുണ്ടയാട് എന്നീ സ്ഥലങ്ങളിൽ ഈ പരിപാടി നടഷാക്കുന്നതിന് ഇഎംസി തിരഞ്ഞെടുത്തിരിക്കുന്നത് ശ്രീനാരായണ കോളേജ് കണ്ണൂരിനേയാണ്. കാമ്പയിന്റെ ഭാഗമായി 14.12.2021 തിയ്യതിയിൽ വൈകുന്നേരം 7മണി മുതൽ ഒരു വെബ്ബിനാർ നടത്തുന്നു, പരിപാടികളുടെ ഔപചാരികമായ ഉദ്ഘാടനം കണ്ണൂർ എസ്.എൻ.കോളേജ് പ്രിൻസിഷാൾ ഡോ. കെ.അജയകുമാറിന്റെ അദ്ധ്യക്ഷതയിൽ നടക്കുന്ന യോഗത്തിൽ ബഹുമാനപ്പെട്ട കണ്ണൂർ ജില്ലാ പഞ്ചായത്ത് പ്രസിഡ് ശ്രീമതി പി.പി. ദിവ്വ നിർവഹിക്കുന്നു. പ്രസ്തുത പരിപാടിയിലേക്ക് എല്ലാവരെയും സാദരം ക്ഷണിക്കുന്നു. പരിപാടി ഗൂഗിൾ മീറ്റ് ഓൺലൈൻ ഫ്ലാറ്റുഫോമിൽ ആണ് നടക്കുക . ലിങ്ക് ചുവടെ

https://meet.google.com/bqr-bigv-wyi പരിപാടിയിൽ പങ്കെടുക്കുന്ന എല്ലാവർക്കും ഇ സർട്ടിഫിക്കറ്റ് നൽകുന്നതാണ്



ഊർജ്ജ കിരൺ 2021 – 22 ` ഗോ ഇലക്ട്രിക്ക് ക്വാമ്പയിൻ ` ഊർജ്ജ കാര്യശേഷിയും ഊർജ്ജ സംരക്ഷണവും വെബിനാർ, അവബോധ ക്ലാസ്, ഊർജ്ജ സംരക്ഷണ റാലി – പ്രതിജ്ഞ, ഒപ്പ് ശേഖരണം

ഊർജ്ജ ഉപയോഗം മനുഷ്വ ജീവിതത്തിന് ഒഴിച്ചുകൂടാനാകാത്ത ഘടകമാണ് എന്ന കാര്വത്തിൽ സംശയത്തിന് ഇടയില്ല. വിളക്കുകൾ കത്തിക്കുന്നതിനും വാഹനങ്ങൾ ഓടിക്കുന്നതിനും, ഭക്ഷണം പാകം ചെയ്യുന്നതിനും, യന്ത്രങ്ങൾ പ്രവർത്തിപ്പിക്കുന്നതിനുമൊക്കെ ഊർജ്ജം കുടിയേ തീരൂ.. ഇന്ത്വയിൽ ഇന്ന് നാം ഉപയോഗിക്കുന്ന ഊർജ്ജത്തില് നല്ലൊരു ശതമാനം പുനരുപയോഗിക്കാൻ സാധിക്കാത്ത ഊർജ്ജ സ്രോതസ്റ്റുകളിൽ നിന്നുള്ളതാണ്. അതായത് അസംസ്കൃത എണ്ണ കൽക്കരി, ലിഗ്നയിറ്റ്, പ്രകൃതി വാതകം മുതലായവ. ഇവയെല്ലാം തന്നെ തീർന്നു കൊിരിക്കുന്ന വിഭവങ്ങൾ ആണെന്ന് മാത്രമല്ല ഇതിൽ നിന്ന് വരുന്ന ഹരിതഗ്രഹ വാതകങ്ങളാണ് ഇന്ന് നാം അനുഭവിക്കുന്ന കാലാവസ്ഥാവ്വതിയാനത്തിനും അതിന്റെ അനന്തര ഫലങ്ങളായ അതിതീവ കാലാവസ്ഥാ പ്രതിഭാസങ്ങള്ക്കും പ്രകൃതിദുരന്തങ്ങൾക്കും കൃഷിനാഷത്തിനുമൊക്കെ പ്രധാന കാരണം. പൊതുജനങ്ങൾക്ക് ഊർജ്ജ സംരക്ഷണത്തിന്റെ ആവശ്വകതയും അതിനുള്ള മാർഗങ്ങളും പകർന്നുനല്കാനും സംസ്ഥാനതലത്തിൽ ഊർജ്ജ സംരക്ഷണ പ്രവർത്തനങ്ങൾക്ക് രൂപംനൽകി നടപ്പിലാക്കാനുമായി ഇന്ത്യയിൽത്തന്നെ ആദ്യമായി സ്ഥാപിതമായ സംസ്ഥാനതല ഊർജ്ജപരിപാലന കേന്ദ്രമാണ് ഊർജ്ജ വകുപ്പിൻറെ കീഴിൽ പ്രവർത്തിക്കുന്ന എനർജി മാനേജ്മെന്റ് സെന്റർ കേരള, (ഇഎംസി). ഇഎംസിയുടെ പരിശീലന ബോധവൽക്കരണ പരിപാടികളിൽ സുപ്രധാനമായ ഒന്നാണ് 2015 മുതൽ നടത്തിവരുന്ന ഊർജ്ജ കിരൺ പദ്ധതി. പ്രാദേശികതലത്തിൽ സന്നദ്ധസംഘടനകൾ കോളേജുകളിലെ നാഷണൽ സർവീസ് സ്കീം തുടങ്ങിയവയുടെ പങ്കാളിത്തത്തോടെ പൊതുജനങ്ങൾക്കായി നടത്തുന്ന ഊജ്ജ സംരക്ഷണ പരിശീലന–ബോധവൽക്കരണ പരിപാടിയാണ് ഇത്. കേന്ദ്ര നഗരവികസന മന്ത്രാലയത്തിൻറെ സെൻറർ ഓഫ് എക്സലൻസ് ആയി തിരുവനന്തപുരത്ത് പ്രവർത്തിക്കുന്ന സെൻറർ ഫോർ എൻവിയോൺമെന്റ് ആൻഡ് ഡെവലപ്മെന്റാണ് ഈ പദ്ധതി സംസ്ഥാനമൊട്ടാകെ ഏകോപിപ്പിച്ച് നടപ്പാകുന്നതിനുള്ള റിസോർസ് ഏജൻസിയായി പ്രവർത്തിക്കുന്നത്. ഊർജ്ജ കാര്യശേഷിയും ഊർജ്ജ സംരക്ഷണവും എന്നാ പൊതു വിഷയത്തിന് പുറമേ ഈ വർഷത്തെ ഊർജ്ജ കിരൺ പരിപാടിയിൽ പ്രധാനമായി ചർച്ചചെയുന്ന വിഷയമാണ് 'ഗോ ഇലക്രിക് ' എന്നത്. കേന്ദ്ര ഊർജ്ജ മന്ത്രാലയത്തിന്റെ കീഴിലുള്ള ബ്യൂറോ ഓഫ് എനർജി എഫിഷ്വൻസി (ബി.ഇ.ഇ) സംസ്ഥാന സർക്കാരുകളുടെ സഹകരണത്തോടെ കഴിഞ്ഞ പരിസ്ഥിതിദിനത്തിൽ ഉദ്ഘാടനം ചെയ്ത് നടപ്പാക്കിവരുന്ന പദ്ധതിയാണ് 'ഗോ ഇലക്രിക് കാമ്പയിൻ. രാജ്വത്തെ ഗതാഗതത്തിന്റെ 100 ശതമാനവും വൈദ്യുത വാഹനങ്ങളിലേക്കും ശുദ്ധവും സുരക്ഷിതവുമായ വൈദ്വുതി ഉപയോഗിച്ചുള്ള പാചകത്തിലേക്കും നയിക്കുക, ഇന്ധന

ഇറക്കുമതി ആശ്രിതത്വം കുറയ്ക്കുക, കുറഞ്ഞ കാർബൺ സമ്പദ്വ്വവസ്ഥയുടെ പാതയിൽ മുന്നോട്ട് പോകുക, കാലാവസ്ഥാ വ്വതിയാനത്തിന്റെ പ്രതികൂല ആഘാതത്തിൽ നിന്ന് രാജ്യത്തെയും ജനങ്ങളെയും രക്ഷിക്കുക എന്നതാണ് ഈ കാമ്പയിന്റെ പ്രധാന ഉദ്ദേശ്വം. മുഖ്വവിഷയത്തിന് പ്രാധാന്വം നൽകിയുള്ള വെബിനാറുകൾ, അവബോധ ക്ലാസ്സുകൾ, വനിതാസംരംദക ശാക്തീകരണ ശില്പശാലകൾ,, ഊർജ്ജ സംരക്ഷണ റാലി പ്രതിജ്ഞ, ഒഷുശേഖരണം തുടങ്ങിയ പരിപാടികളാണ് ഈ വർഷത്തെ ഊർജ്ജ കിരൺ പദ്ധതിയില് ഉൾഷെടുത്തി സംസ്ഥാനമൊട്ടാകെ 2021 ഡിസംബർ ഒന്ന് മുതൽ പതിനാല് വരെയുള്ള കാലയളവിൽ നടഷാക്കുന്നത്. ആസാദി ക അമൃത് മഹോത്സവത്തിൻറെ ഭാഗമായിട്ടുകൂടിയാണ് ഈ വർഷത്തെ പരിപാടികൾ സംഘടിപ്പിക്കുന്നത്.

ധർമ്മടം അസ്സംബ്ലി നിയോജകമണ്ഡലത്തിൽ ഈ പരിപാടി നടഷാക്കുന്നതിന് ഇഎംസി തിരഞ്ഞെടുത്തിരിക്കുന്നത് ശ്രീനാരായണ കോളേജ് കണ്ണൂരിനേയാണ്. കാമ്പയിന്റെ ഭാഗമായി 9.12.2021 തിയ്യതിയിൽ രാവിലെ 10.30 മുതൽ 11.30 വരെ ഒരു ബോധവൽക്കരണ റാലിയും അതിനു ശേഷം ഊർജ്ജ സംരക്ഷണ പ്രതിജ്ഞയും ഒഷുശേഖരണവും നടക്കുന്നു.

പരിപാടികളുടെ ഔപചാരികമായ ഉദ്ഘാടനം പിണറായി പഞ്ചായത്ത് പ്രസിഡണ്ട് **ശ്രീ കെ.കെ. രാജീവന്റെ** അദ്ധ്യക്ഷതയിൽ നടക്കുന്ന യോഗത്തിൽ ബഹുമാനപ്പെട്ട **മുഖ്യമന്ത്രിയുടെ മണ്ഡലം പ്രതിനിധി ശ്രീ പി.ബാലൻ** നിർവഹിക്കുന്നു. പ്രസ്തുത പരിപാടിയിലേക്ക് എല്ലാവരെയും സാദരം ക്ഷണിക്കുന്നു.



ശ്രീ നാരായണ കോളേജ് കണ്ണൂർ ഡിഷാർട്മെന്റ് ഓഫ് ബോട്ടണി

ഊർജ്ജ കിരൺ 2021–22 'ഗോ ഇലക്ട്രിക്ക് ക്വാമ്പയിൻ' ഊർജ്ജ കാര്യശേഷിയും ഊർജ്ജ സംരക്ഷണവും വനിതാസംരംഭക ശാക്തീകരണ ശിൽപശാല



ബഹുമാന്വരേ ,

ഊർജ്ജ കിരൺ പരിപാടിയുടെ ഭാഗമായി കണ്ണൂർ താലൂക്കിലെ കുടുംബശ്രീ സംരംഭകരുമായി ഏകോപിച്ച് ഒരു ഊർജ്ജ സംരക്ഷണ ബോധവൽക്കരണ പരിപാടിയും ഗോ ഇലക്ട്രിക്ക് ക്വാമ്പയിനിങ്ങും 6.12.2021 ന് ഉച്ചയ്ക്ക് 1.30ന് ശ്രീ നാരായണ കോളേജ് സെമിനാർ ഹാളിൽ വെച്ച് സംഘടിപ്പിക്കുന്നു. പരിപാടികളുടെ ഔപചാരികമായ ഉദ്ഘാടനം ബഹുമാനപ്പെട്ട എം.എൽ.എ ശ്രീ കടന്നപ്പള്ളി രാമചന്ദ്രൻ നിർവഹിക്കുന്നു. പ്രസ്തുത പരിപാടിയിലേക്ക് എല്ലാവരെയും സാദരം ക്ഷണിക്കുന്നു. പരിപാടിയിൽ പങ്കെടുക്കുന്ന എല്ലാവർക്കും എൽ.ഇ.ഡി. ബൾബ് സൗജന്വമായി നൽകുന്നതാണ്.

സാങ്കേതിക സാമ്പത്തിക സഹായം എനർജി മാനേജ്മെന്റ് സെന്റർ കേരള, സെന്റർ ഫോർ എൻവയോൺമെന്റ് ഏന്റ് ഡവലപ്പ്മെന്റ്,

രജിസ്ട്രേഷൻ	
സ്വാഗതം	: ഡോ.ജീഷ്ണ. എം.വി. (കോ–ഓർഡിനേറ്റർ, ഊർജ്ജ കിരൺ)
അദ്ധ്യക്ഷൻ	: ഡോ. കെ. അജയകുമാർ (പ്രിൻസിപ്പാൾ, എസ്.എൻ. കോളേജ്, കണ്ണൂർ)
ഉദ്ഘാടനം	: ശ്രീ കടന്നഷള്ളി രാമചന്ദ്രൻ (ബഹു. എം.എൽ.എ, കണ്ണൂർ)
ആരംസ	: ശ്രീ. സജേഷ് കുമാർ പി.കെ. (കൗൺസിൽ മെമ്പർ, കിഴുത്തള്ളി) : ശ്രീമതി : മിനി കെ.എൻ. (കൗൺസിലർ മെമ്പർ , കുറുവ) : ഡോ. അനിത പി.കെ. (കോർഡിനേറ്റർ, ഐ,ക്വൂ.എ.സി)
ക്ലാസ്സ്	🗉 ഊർജ്ജ സംരക്ഷണ ബോധവത്കരണം
	ഡോ. പ്രശാന്ത് കെ.പി. (ഇ,എം,സി, റിസോഴ്സ് പേഴ്സണൽ)
	: വനിതാ സംരംഭക പ്രൊജക്റ്റ് ഊർജ്ജ സംരക്ഷണവും ഊർജ്ജ കാര്യ ശേഷിയും
	ഡോ: നഫീസ ബേബി ടി. പി. (ഡയറക്ടർ ഓഫ് സ്റ്റുഡൻറ് സർവീസ്, കണ്ണൂർ യൂണിവേഴ്സിറ്റി ഇ.എം.സി. റിസോഴ്സ് പേഴ്സൺ)
៣ផា	: ഡോ. അപർണ്ണ പി (അസി.പ്രൊഫ.ബോട്ടണി വിഭാഗം, എസ്.എൻ.കോളേജ്,കണ്ണൂർ)

* പരിപാടിയിൽ പങ്കെടുക്കുന്ന എല്ലാവരും അവസാന മാസത്തെ കറന്റ് ബിൽ കോപ്പി / ഫോട്ടോ കയ്യിലൊ മൊബൈലിലൊ കരുതുക



Webinar*/ Workshop-

WOMEN EMPOWERMENT PROGRAMME

>

Name of Conducting Organization......SREE NARAYANA COLLEGE, KANNUR....

Place.........SEMINAR HALL, SREE NARAYANA COLLEGE.........Date......06.12.2021 Time: 1.30 pm

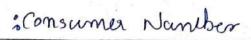
Assembly Constituency......KANNUR TALUK

LIST OF PARTICIPANTS

SINO	Name of Participant	Local body Name (GP/MNPTY/CORPN)	Mobile No.	Email Address	KSEB Cons. No.	Last two months bill amount (Rs)	Feed back	
y	හොල ල හංගෙ	tamu coopes at com	e547188478	1. 1.	6644	1309	210-21 201-051 2021 0300	
2	നന്താമാ	Lame corpes abuis	85920488		CII 66572017 6657 218	2484	21800 ag	
3	marge law pere	Karnuer Corperation	9895253588		1166568013138	565	mes interactions Senteamonda	3000
4	ସମ୍ଭାଳ	وو	9895-768147		1166560013231	573	9202020 03220 920103020	und
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7	8)28]	ク	9497701889		116658 2010	1153	Stal 2 - al - us	

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	11	୍ୟେଲ୍ଟୀକ	رو	9562981607		11665610	869	Jero z zaro
	12	end one	7 و	989528580	2	-1283	2966	Bogles and wield ??
	3	6 man	رد	9499143		1166572021 032	1285	
1.	4	Don	ربر ۱	7356110242		15058	2000	Bons 3 magan 2m less.
15 L		ลา	カ	9446261060				303-35 302-2306 -23218.
16	Je	592	17	9995604039	,			Nero mos
17	9	Sound	ע	9895049 382		116656206 5367	760	analonal Buralonal

	18	tanus corporations	9048013594	11G6574020 384	451.	Paten southons marine and on and
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28	1 Blon 31 410	15	9746782)- 11	18242		300	230222 honto - gundens amber al.
29	ତ୍ରୀବ୍ୟ	1)	7104863K 04	6729		800	maranong Starong and so and so
30	Am	99	9895118164	13250		500	Oszalozma.
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32	ombo	2)	99471991 32	116656301307 9		500	236 කින් බංවේ කානු පංෂා කොර තොරා පානාවනටටට.
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34	5 ban	ונ	96565138 74	-			my interactie 60000
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9	02/2	"	9207144811		11665730 150509	450	Nolumo Dz. 6 gelando m. Wizzech ano hour to a
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6	ION		81290060		1166574	1591	Derbergen Derbergen Nocasimo Dorcheszt

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51	Jeres sugar	•)	9744483 596		116657300 55155		පිතුව - 20 දි ලැකි දැකුර පුණු පුණු
52	17	1)	989545 3741	1	116657600 C752	319	oorsjan Oreans lansozarless
53	กาลากา		99952953 63		11665750 -22286	129	പൈട്ടുളതിക്കുട ലിസ് മന്നിലാംബ
54	Conto	<i>i</i>)	804549- 5695	6	-	-	හබු_ාടි කාටාදුවේළුන -
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62	BUND - HE	5	9947684	633		4696	6100	
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67	Con 222 00		920773124	2				



സാങ്കേതിക സാമ്പത്തിക സഹായം ഇ.എം.സി കേരള, സെന്റർ ഫോർ എൻവയോൺമെന്റ് ഏന്റ് ഡവലപ്പെന്റ്,

പരിപാടിയിൽ പങ്കെടുക്കുന്നവർക്ക് ഇ– സർട്ടിഫിക്കറ്റ് ലഭിക്കുന്നതാണ്

	സ്വാഗതം	: ഡോ. ജീഷ്ണ എം.വി കോ- ഓർഡിനേറ്റർ , ഊർജ്ജ കിരൺ)
	അധ്വക്ഷൻ	: ഡോ. കെ.അജയകുമാർ (പ്രിൻസിപ്പാൾ, എസ്. എൻ.കോളേജ്, കണ്ണൂർ)
	ഉദ്ഘാടനം	: ശ്രീമതി പി. പി. ദിവ്വ (ജില്ലാ പഞ്ചായത്ത് പ്രസിഡണ്ട്, കണ്ണൂർ)
	ആശംസ	: ശ്രീമതി. അനുഷ. എ പ്രഞ്ചായത്ത് പ്രസിഡണ്ട്, മുണ്ടേരി)
		: ശ്രീ. സജേഷ് കുമാർ പി. കെ (കൗൺസിൽ മെമ്പർ, കിഴുത്തളളി ഡിവിഷൻ)
		: ശ്രീമതി. മിനി കെ.എൻ (കൗൺസിൽ മെമ്പർ, കുറുവ)
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	:	ശ്രീമതി. ഷെഹീദ എസ്. (കൗൺസിൽ മെമ്പർ, താഴെ ചൊവ്വ)	
	:	ശ്രീമതി. രജനി. കെ. പി (കൗൺസിൽ മെമ്പർ, തിലാനൂർ) ഡോ: അനിത പി.കെ. (ഐ,ക്യു,എ,സി, കോ– ഓർഡിനേറ്റർ, എസ്. എൻ,കോളേജ് കണ്ണൂർ)	
¢	ാസ്റ്റ് :	ഡ്രോ. കെ. പി. പ്രശാന്ത് (ഇ.എം.സി.റിസോഴ്സ് പേഴ്സൺ)	
m	ເສີ :	ഡോ: അപർണ്ണ പി. (അസിസ്റ്റൻഡ് പ്രൊഫസർ, എസ്.എൻ.കോളേജ്, കണ്ണൂർ)	
	അവസ	യിൽ പങ്കെടുക്കുന്ന എല്ലാവരും ഗന മാസത്തെ കറന്റ് ബിൽ കയ്യിലൊ മൊബൈലിലൊ കരുതും	

hest of pali Rally & Signature Campaign 9.12.2021 Pinarayi, Dharmadam Nome of Lucky dip coinners for LED Bulb Name Phone number Privavada ps V 9847148949 Janaki . A 2 9947605701 shanda 3 M.R 9526864339 4 Reeja N 9633843199 Remani 5 P-R 8129019757 Prajeetha, kill 6 9526592430 T Promeela - P 8 Vimala - k 9605922154 Sheepa .k 9 8606640166 10 Beena . P.V 95446072 48

Name of chief guest who got LED Bulb SI No Name Designature !!!!! Phone no : K. K Rajeevan) Pinarayipanjath President 9747281444 P. Balan MLA-representating 9447354999 2 130nti" Ravidran 3 Kannur District (ponjayath Mem) Panjayath Member (Kamur District) Chandvar Kallatt 4 Block (panjayath Member) Thalossery) Sgeetha C.M 5 Block (panjayath Member Thalassen) Alisar Ahammad 6 Block(parjayath Member Thalassery) Murugoli Pavithran 7 9605003206 Ajayakumar .k Principle S.N. college Kanner) 8 Lipeesh k.p K.S.E. B/Pinavaryi Section 9 E.M.C (Resource person) 944785394 Prasanth. K.P 10 9495821252 Assistant ProFE SSOR (Hindi Deptmant S. Ncollege Raithika P-K 11.

URJA KIRAN 2021-22

Webinar*/ Workshop Rally, Signature Campaign Name of Conducting Organization,..... SREE NARAYANA COLLEGE, KANNUR

Place......PINARAYI, DHARMADAM.....Date...09.12.2021....

Assembly Constituency......DHARMADAM.....

SI No	Name of Participant	Local body Name (GP/MNPTY/CORPN)	Mobile No.	Email Address	KSEB Cons. No.	Last two months bill amount (Rs)	Feed back
1	Pradeep Knusar	Pinarayi	9539146831		13710.	800	
2	Bron Bar. And	Benmale	9387668644		5365	460	
3	Dons)Consol - mol	Monnas	9425019010			405	0
4	nm	Domas D	7559863965		653	339	
5	13) มี เอาโ	Dennal	9947604665		9974	1269	
6	62)~0~0320.00 .000 m	Lamn 22)	9744192459			635	
7	pilpet. ora	Mannael	9605922154		5603	900	
8	moziro	2) mar noal	9847938254			1-200	

LIST OF PARTICIPANTS

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10	nm	പിണ റാപ്പി	9526126517	1985		
11	22. v. 00	mon mol	9526197318	5229	2001	
12	M.m.L.	Jern mai	9895739428	4937	888	
13	eilet. aug	Nemosa)	9995080010	4004	874.	
15	valiat.	Jemmo a)	8281710115	7219	606	
16	(n) as , cond	n Domn 22)	9495761404	1118	1157	
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17	13200 aum)	Le camela	9744603957	594 15948 10548	626	
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19	242] 027	2lm nod	9947972474	14642	1100	5
20	n na cromb	Non no al	9961801581		251	

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	4	guerneu	Jomn 200)	7102184712		3400
	ſ	Lan	-Normola	9995774965	4004	350
	23	201 n33	Lacomp	9544205968	11000	348
	24	mm	Gerander	9544601248	1146	575
	25	(va)2. A.D. 000	Lamosal	9496420960		3500
	26	amaro	Mennaal	8281843374	2502	620
	27	2)emossim)	Monoral	9847947434		765
2	8	~15.2~	2 Jon noal	9999.5394705		662 .
29		2ng unikrand	2)mn sa)	95 (146655)		527
30		to Almo	าปีอาการอา	9847960601		929

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33	(Bor) on . 0 0 0	Jon na)	9526592430		470
34	(j) ng. 6 3 - 40	201308	9562523184		420
35	J 95-082801- 0 8	20 m 26)	8281H95525		106
36	and and a	නට්ෂන30 ගාගං	9496566416		700
37	gover ml	891-3000 KIND	9400909193		700
38	mSm. 68.98.	B1-3 830 13:000	98491431857		655
39	· (A. arcos	aly agets	99947189201	3022	520
40	201616189. Dom	31 23 88 m	86067H85 06		376

	E					
1	Am as	2700000	9207817325	17-285	500	
42	6(1-1283270)	27/00/2000	8283604655	7047	937	
43	wylars	Compa	9562892292		700	
44	เกลิเซา	alomnal	9526891696	7906	500	
45	0012 m2	Jamose	9847907507		400	
46	rosm61.2	Ammal	9.84 7684852		450	
47	rogand	Jemos a)	9497600711		820	
48	හොතොට හි	Monnow	9633808628			
49	romile	Amos)	9037414475			
50	as. A. upra	Manna	9997069551	1846	619	
	1.25					

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	ß	2162/00	n Nommal	9207664112			838
	52	ം ടേട്ടുന്ന കെ.ടി	Somosa.	984 - 974489028	2		1825
	53	Bar (vo). 5)	Momn 22	9656063430		9232	504
	54	(Lalaronaron	2)mn 2	9847148949			672.
	55	22) ont	Mannal	9144368038		2527	423
	56	mmel	Amnal	9961719985		511	317
	57	NH 23	Dormal La	8606640166			550
-	58	10/ml	Jamosa	9947868497			420
	59	mogilm	2 Jonno 2)	8606327871			250
	50	96122	Monna	9544116168			530.

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62	coo sel.	essigd	949509422		320	
63	man mg Op	Canel of	8301084958	1718	680	
64	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a sonzans	96 Q5 8311 88	15176	1200	
65	00000 02, 02,	2 Jon Sens	9562419397		540	
66	aster. as	Joussans	9947995055		670-	
67	- 0°erlèses	しいろ ひのの	9961472879		780'	
68	21503	Suranson Jas	8606662483	17800-	290	
69	windia	කෞතාය	97 471101956		49410	
70	Joblas	6251927 5	860607093)		670	

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1	monorala ay.	600300002000	9961853994		1120.	
72	enost si mit	Dom mall	9847943531		910	
73	elog 29. ml	പാപാരിതന	9778090758		570	
74	ารโลโย. ออ	Jonnal	95 26929627		1200	
75	BODEN . rol. 02	Jonnal	9993526291	EI	350	
76	พฏิก) - ปกอ	mon mal	97 4728 1550	*	500	
77	bolist	Jenna)	8301895185	7049	420	
78	BONDO	Jenno	94-00983898		2500	
79	പോളിത	Manasal	9562113826		850	-
80	anna	Dennight	9946696853	8141	360	

		1910				
1	6120	2)mnsal	1567970311		510	
82	emina) elm	nilomn 2 al	9961607142	12336	680	
83	mzw	Beach	83010 849 58	1718	630	
84	(volae)	les anna In	9495091422		320	
85	CAR 2. No	n nom no al	8606232245	2544	420	
86	milde	La non m	8289890844		580	
87	100002	Recompres			1020	
88	8200	Becomore			706	
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92	P. muent	orems is'	9447354- 999		2000/2	
93	තුළු අත් නී	Con and cr an all	9495619321	××× 10418	16001-	
94	500 x), 08 /m	Denni D	8289963657		700	
95	Elos . 60 . D. Coolis	218008006	9947689174	1166609025477	2600/-	
96	ma-25 God	e 21 al des ab	99472H 2818	5167	,400 -	
97	Prapeetha	\$ alass)	77921662841		397	
98	Sheeza KK	Amonía)	9496420960		3500	
99	Sindhy	2)m ()2)	4593076738		729	
100	Sandhya	a Jon (22)	9656721179		519	

and the		1		- Share		
	<u>an as:).</u>	2 Janos est	9961503584	5070		
1	28/02/. 200	allosom.	9941625223	5878	1500)-	
103					569	
104	വിനീത. ഇ	2_1) 00005	9744824033	8626	750	
105	Gavan- Oa-Q	- 2) are ens	9995380568		850	
	A - Vimala	Mon asa)	9947673989	1	50)	
105	×				>01	
107	Sheeba - K	what	9947972474	2 14642	1080	
107		- 0 -	d.			
	Mafeeda	~) m/ ms	9043923888	5	647	
108	U	D				6 :
	Sumathi. (.T	Jan 12)	960501646	5	790.	
109						
	Laila.	2)~1802	94470 80 4	0	800	
		Ŭ				
110	K. Savithi	2)n ~ luo	954461047	4 02036	1215	
111					780	
	no. 2, mail	ansasni	99476057	0	10-	

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	Anitha	a James Jas)	974728309	52		800 -	
113	Premalatha	(corronal)	984686606	>		700	
114	Ngbeegg	~ las condra	9847725			890	
115	Madlika V	2)000 700)	9526687	316		480	
116	RIAIDA. K	la main	95622	2.8527		880-	
117	Dhanya	(a comple,	95444	41138b	7	630	
118	Usha: M	a)oncial	9416	538665		680	
119	Sanogini	Jonora	9947	23055	2910	260	
120	Jeeja) m ale	94981	15071	3940	660	
121	VIAIng	Jonoral		97973	0914	195	
122	Komalgvall	200000	9633	868823			
	NOMaig Vaus						

	1035? Drovos	na mon sal	9544848933	5269	GUS	
124	Talan	กปิอาการโ	\$281669236	5493	385	
125	נמשר צייטין צייציציטי	Mannow	9562 Loosae	2569	1274	
126	ราวการ์การ์ ดนเห็น	workerso	6282850757	5995	2800	
127	revent	2 Comasel	90990429075	6879	766	
128	eunzarab	Jamo sel	9061561984		c164	
129	ere . (Nac	almara	8078523385		808	
130	Gromuzit	Almonal	7510569587		700	

SI No	Name of Participant	Local body Name (GP/MNPTY/CORPN)	Mobile No.	Email Address	KSEB Cons. No.	Last two months bill amount (Rs)	Feed back
131	Vidha		9847714600				
132	Pasan N.T	Pinarayi	9446771387				
133	Pradeepan-P	11	9446084031				
134	Deepan Kolad	4	9900535154				
135	Deevalsam	17	974729415				
136	ismshina preedee	5 1)	9447663286				
137	Japandhnan	1)	9446267506				
138	Laya. B.T))	9496103819				
139	Rassesh · p	2/	9895 38956				
140	Rathnakiran	1)	9400483584				
141	sajitha	77	9605464172				

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143		1)	9947394137				
144		1)	7012962306				
145	Nevealta Giriprata	- 11	702524744				
146	Chanciman · Pit	"	7591962762				
147	Rojith Isanan	17	790922914				
148	Bunjia nabokan	v	7909229141				
149	Shyresh	1)	81295888	3			
150	banabavalli	")	812972175	P			

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	Abivam Santhosh	Firmiyi	8139849776	
152	Navaesh	17	828141633	
153	Prakasban.P	2)	82811261760	
154	Difishjapadman Par	a 1)	8281324297	
	Dhoramaja har		8547188408	
156	Apilkumar p.v	1)	794794000	
157	Phalgunan	y	9961694316	
158	Prakachank.v	, 12	9961718463	
159	Pavithaan	ر ر	9995021362	
160	thraffesb	2)	9995043442	

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	161	Lyulijesh	Pinanyi	99950434	2		
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	163	Szabu	2)	99474998	24		
	64	Sneepon pinanay	A 2)	994750851	1		
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169	, r	zith harmark.v	2	99479366	41		
170	T	Rineshsagariba	Ŋ	994 796961	48		
171	E	rish p.b	1)	99470094	IG		

172	Shiramon, 13	pinariyi	994760331		
173	Sushama M	91	994712018		
174	chithman	2)	994720852		
175	Bijesbbayalock	21	9947296933		
176	Bgesh beezhalk	y))	954770995		
177	sugathan vengilat	رو	7847812441		
178	ogaliagurajee vao	h	9895041124		
179	Pavetbran p.v		9895104890		
180	Badhusedbara	p "	9046200321		

181	Niyas	رد	95443914736	
182	Sayith Iscnoor P.10	j	9605029550	
183	Ravitbajites	<i>)</i>)	960574956	
184	Preman kongal	- 2)	9645152530	
185	Ramachandran B'B	")	974445401	
186	pradaep 10.p	17	9745288771	
*For W	ebinar prepare Google form wi	th this details		





പിണറായി (ധർമ്മടം മണ്ഡലം)

ഗോ ഇലക്ട്രിക് ക്വാമ്പയിൻ

- *— ഊർജ്ജ സംരക്ഷണറാലി
- <mark>ം പ്രതി</mark>ജ്ഞ
- <mark>*___ ഒപ്പു ശേഖരണം</mark>



2021 ഡിസംബർ 09 രാവിലെ 10.30ന്

സ്ഥലം : പിണറായി സാംസ്കാരിക സമിതി പരിസരം ഉദ്ഘാടനം : ശ്രീ. പി. ബാലൻ

(മുഖ്വമന്ത്രിയുടെ മണ്ഡലം പ്രതിനിധി, ധർമ്മടം)

സാങ്കേതിക സാമ്പത്തിക സഹായം എനർജി മാനേജ്മെന്റ് സെന്റർ കേരള സെന്റർ ഫോർ എൻവയോൺമെന്റ് ഏന്റ് ഡവലപ്പ്മെന്റ്.

സ്വാഗതം	: ഡോ.ജീഷ്ണ. എം.വി.
	(കോ- ഓർഡിനേറ്റർ, ഊർജ്ജ കിരൺ)
അദ്ധിക്ഷൻ	🗉 ത്രീ. കെ.കെ. രാജീവൻ
	പ്രസിഡന്റ്, പിണറായി പഞ്ചായത്ത്)
ഉദ്ഘാടനം	്രീ. പി.ബാലൻ
	(മുഖ്വമന്ത്രിയുടെ മണ്ഡലം പ്രതിനിധി, ധർമ്മടം)
ആശംസ	: ശ്രീമതി. സി.പി. അനിത
	(ബ്ലോക്ക് പഞ്ചായത്ത് പ്രസിഡന്റ്, തലശ്ശേരി)
	ം ശ്രീ. കോങ്കി രവീന്ദ്രൻ
	(കണ്ണൂർ ജില്ലാ പഞ്ചായത്ത് മെമ്പർ)
	ം ശ്രീ. ചന്ദ്രൻ കല്ലാട്ട്
	(കണ്ണൂർ ജില്ലാ പഞ്ചായത്ത് മെമ്പർ)
	ം ശ്രീ. മുഹമ്മദ് അഫ്സൽ
	(കണ്ണൂർ ജില്ലാ പഞ്ചായത്ത് മെമ്പർ)
	: ശ്രീമതി. സി.എം.സജിത
	(തലശ്ശേരി ബ്ലോക്ക് പഞ്ചായത്ത് മെമ്പർ)
	: ശ്രീ.നിസാർ അഹമ്മദ്
	(തലശ്ശേരി ബ്ലോക്ക് പഞ്ചായത്ത് മെമ്പർ)
	: ഡോ. കെ. അജയകുമാർ
	(പ്രിൻസിഷാൾ, എസ്.എൻ. കോളേജ്, കണ്ണൂർ)
	്ര. ലിപീഷ്. കെ.ടി.
	- (കെ.എസ്.ഇ.ബി. പിണറായി സെക്ഷൻ എ.ഇ.)
	: ഡോ. കെ .പി. പ്രശാന്ത്
	(റിസോഴ്സ് പേഴ്സൺ, ഇ.എം.സി.)
៣ផា	: ഡോ. രതിക. പി.കെ.
	(അസി. പ്രൊഫസർ . ഹിന്ദി വിഭാഗം,
	ശ്രീ നാരായണ കോളേജ്, കണ്ണൂർ)

* പരിപാടിയിൽ പങ്കെടുക്കുന്ന എല്ലാവരും അവസാന മാസത്തെ കറന്റ് ബിൽ കോപ്പി / ഫോട്ടോ കയ്യിലൊ മൊബൈലിലൊ കരുതുക

URJA KIRAN 2021-22 Webinar

Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR - HEBINAR

Place.......Google meetDate...14.12.2021... 7.pm.

Assembly Constituency.......KANNUR...(Chelora, Edakkad, Elayavoor, Munderi).....

LIST OF PARTICIPANTS

SI No	Name of Participant	Local body Name (GP/MNPTY/CORPN)	Mobile No.	Email Address	KSEB Cons. No.	Last two months bill amount (Rs)	Feed back
1	Amindala	Elenjavoor	8129342041		1166514002976	400/-	
2	Salila	Eleyeivoor	7012424379		116657400321	1250-	
3	Geetha	Elayewoor	7909119390		116657400322	2097/-	
4	Sheeje	Eleyervoor	96339160805		16657400328	1550/-	
5	Ashitha	Elacewoor	9400454310		18657400329	1500/-	
8	shæba	Ela gervoor	9447883532	-	1665740032	1700/-	
1	Sanala.	Elayewoor	95677558%		1166574004	1200/-	
5	nooba	Elayewoor	94-46062235		1166574001	19 1650/-	Σ.

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1	Busmitha · k-	Elacavoor	859049-625	1166573002876	2300 /-	
ł	10 mana	Elayavoor	897525112	18394613	2500-	
+	11 DeepaBhashi	Elayavoor	9605492595	82029502	1900/-	
-1	12 Preetha	Elayavoor	9895228071	55238391	15001-	-
1:	•	Elayeroor		1166570015540	2201/-	
14		Elayavoor		22 252	847/-	
15	Lalitha	Elayavoor		0590	2644/-	
16	Padmavathi	Elayewoor		06732	1500/-	
17		Laugavoor		02634	400/-	
18		lagervoor		00018	817/-	1.4
19	N. C.	Eleyevoor		00288	1255/-	
0		Elayavoor		204 90	757/-	

21	Anathaliumar	Eleyavoor	3874	78/-	
22	Mijishma	Elayewoor	15283	1367/-	
23	Mani K-M	Eleyervoor	02722	3513/-	
24	kanishnan P.T	Elayeroor	00074	2 4691-	
25	Kaishnan P.T	Elenproor	01403	615/-	
26	CHandramathi M.	P Elayavoor	02572	1894/-	
27	Scresh Baba	Elenjavoor	1721	2696/-	
28	Breesban 13	Elayavoor	16974	1468/-	
29	Bathepo A	Elayevoor	15206	1499/-	
30	Rapith V	Elayeroor	5617	1851/-	

C.

			La Salara Marana		1 1 1 1 1 1	
31	Seetha p.v	Elayavoor		01371	479 -	
32	Jagath k.p	Elayavoor		13450	828/-	
33	Bincle	Elayavoor		01279	2424/-	and Anna Anna
34	Mini	Elayervoor		16095	1139 -	
35	Varadarajanko	9		21522	3226/-	
36	Manojkumbathi			22762	586/-	
37	Rema v.k	Elayavoor		07486	3749/-	
38	Vani P.K	Elayavoor		04403	2227	
39	Lakshmanan k			01295	4696/-	
40	Leela · p	Eleyewoor		7379	2224/-	

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	2 ⁻¹					e e
41	Pavithman	Elayavoor	A A	21754	27141-	
42	Shethana. K	Elayavoov		21699	1263/-	
3	Devid D	Elayavoor		04065	660/-	
8	karthyani B	Elayewoor		13379	1018/-	
5	Omana R	Elayavoor		15393	1258/-	-
6	Fathima	Elayavoor		05067	15041-	
47	Lobshmi.v	Elayavoor		00078	455/-	
48	Thankamma	Elayavoor		7218	1435	
49	Jayprakash	Elayervoor		3095	1115	
50	Sugarth N.K			12350	721	

			- Andrew Contraction			
51	Sujith 15	Elacjewoor		13221	2097/-	
52	Greesha	Elayevoor		13496	774/-	
53	Saroosh	Elayavoor		13157	14061-	
54	Breeshan	Elayovoor		00080	285 -	
55	Balan P	Elayavoor	n ²	004 521	1210/-	
56	Lajina 6.P	Elayavoor		03008	343/-	
57	Santhosh k.M	Eleujavoor		02065	410/-	
58	Backananclant			07584	376.3/-	
59	Hanish human			15485	2097/-	
60	Brazdevi At			018673	2298/-	

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		6			6		
F 61	Basidran	Elayavoor		P	00573	769 [-	
62	Sahal. A.V	Edabskad			1166771020483	501-	
63	Abbinav C.T	Elayavoor			116657902068	5401-	
64	Ayana.B	Elayavoor			116657700127	363[-	
65	Fazil	Elayavoor	1		11665791227	8 3565/-	
66	Yadul Pradeep E	Edakkad	1		11665750056	10 2902/-	
67	Adwaith P	Eclassiad			116657202	150 228/-	2.
68	Breercy	Edakhad			116677020	579 174/	-
69	Abbiram	Bolakkad			116657600	3301 569	1/-
70	Anagha	Eclakkad			116657400	320 25	Y-

					Carl Carl	
71	Chandbana :P	Elcysivoor		11665740034	510/-	
72	Grayathmi J.R	Elayavoor	974613279			1
73	Teesha M.V	Edukkad	97442629	11665690120	350/-	
74	Sahiel Roshan	Edakkad			19" A.	
75	Manjusha	Edakkad			191	
76	Sreeshna · V·V	Edakkad				<u>1987</u> 197
77	Sancira · P·V	Edakkad				1
78	Malavika . O.F Nathmaja Nilaya	Eclarkad				
79	Nimisha Crk	Edokkad			<u></u>	
80	Jithin Rangeith	Edukicad				

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BI Rahal h	V Edakkad		and the second		1.44	
	umar Edakkad					
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	nouse Edakkad	10				
85 Alavadorsh Roothallaith	M Eclarkkad		-			
Jyothish-C	Vivas Edakkad		-	11605700156	930/-	
Nimisha C-	K Edakkad			11665790156	139-	
	house Eclevelead					100 - 100
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Malavika or Aathnajan Nil	P Eclale kad					

91 Ramisha.M Elayovoor Theyyatharkandy 4.50/-92 Usha-pothik Elayewoor 93 Shaliya. T Thaivachathil 490/chendayad. 94 K.P. Prasanth. Endad Elayavoor EMC, Resonre person 95 P. P. Divya Kormoz Jilla purphyseth prost 96 Mini. K.N. Kurne- Edoppart Kouni Member Thashechora 97 Sheneeda S Connai Member che lora 98 Rajami. k. P Commer Member Munderi Amusha 99 Panjayath President Vengae Dr. K , Ajugatman 100 Principal .S. N. Colly

101	Rayoisha. M	Elayanoor	812971448	
102	Sveelakshmi M Manthal house	Eleyavoor	9915935825	
103		And a second sec	90935115466	
104	Shalima-P	Elayavoor		
105	Mohini V-k Pavayilhouse	Mundant		
	Hemalatha Thaliphouse	Elayewoor		
107	Vapatha Thaliy house	Elayavoor	813786245	
108	Babina Thalig house	Elcujavoor	859017735	
109	prega · P Madalhouse	Elayavoor		
-	Apama.P	Edulckad	98467396	
110	· 7			
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URJA KIRAN 2021-22 Rally/Signature Campaign Report (Submit separate reports for programs conducted at different venues*)

1	Sanction Letter No.	:	EMC/283/2021-ETC(ESS) dt.17.09.2021
2	Name of Conducting Agency	:	SREE NARAYANA COLLEGE, KANNUR
3	Date of Program		
4	Place of Activity (Venue, Name of Local body & Assembly Constituency)	:	Panjayath office pinarayi, Pinarayi and Darmadam
5	Time and Duration of Program		10.30 am to 3.30 pm , 5 hrs
5a	Rally starting point (Place & time)		Panjayath office pinarayi, time 10.30 am
5b	Rally End point (Place & time)		Convension centre pinarayi, time;11.15 am
5c	Signature collection point (Place & time)		Convension centre pinarayi (Inaguration) later it is permanently placed at pinarayi samskarika samithi
5d	Time spent by volunteers for collecting Signature (Hours)		3.30 hrs
6	Name and Position of Chief guest flagged off the Rally	:	Sri. K K Rajeevan, Pinarayi Panjath president
7	Name and Position of Chief guest inaugurated the signature campaign		Sri. P Balan (Representative MLA of Dharmadam, Kannur)
8	Name of Resource person attended the signature campaign	:	Dr. K P Prasanth (EMC resource person)
9	Specify whether the Resource person attended the refresher training of EMC	:	Refresher course given by the EMC through online mode during November, 2021
10	No. of placards used in Rally		14
11	Details of resource materials distributed	:	Notice, Pamphlets, Boucher
12	Total Number of Participants in Rally (Attach list with name & Mobile no.)	:	52
13	Category of Participants in Rally (Give numbers of general public/SHG members/Local body representatives/students etc. participated)		SHG General public Local body representatives Students
14	Total Number of Participants in Signature Campaign (Attach list with name & Mobile no.)	:	186
15	Details of media persons attended the program (support with media reports)		4 media persons deshabhimani and Gramika channel
16	Places where the 2 banners were permanently placed after rally	:	Panjayath office and Pinarayi samskarikasamithi
17	Place where the signature campaign boards were permanently placed	:	Pinarayi samskarikasamithi
18	Details of LED bulbs distributed during the program (Names of chief guests/Name and address of lucky dip winners)		10 for chief guest And 10 for Public
19	Details of feedback received from public	:	good
20	Was any problem faced during implementation of the program? If yes, what?	:	no
21	Remarks/Suggestions for improving the program	:	nil
22	List of attachments (Only scanned/soft copies required)		 Utilization Certificate and Statement of Expenditure (in EMC format) Program Notice/schedule List of participants (Name & Mobile no. only) Photographs/short videos of program (soft copy only) News paper cuttings/channel video clips etc Others, f any
23	Report prepared by (Name & Designation)		Jeeshna M V, Assistant professor, SN College, Kannur
24	Report approved by (Name & Designation)	1	

*Last date for submitting the report by email is 31st December 2021



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2021-22

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ന്നങ്ങളും നേരിടുന്നതിനായി അനാവശ്യമായ ഊർജ്ജ ഉപദേശം ഒഴിനക്കിയും ബെയ്യമി ത്രര ഊർജ്ജസ്രോതസ്സുകൾ പരമാവധി പ്രയോജനപ്പെടുത്തി ഇല്യേക്ക് സഹതങ്ങളും ന്റ 75-ാം വാർഷിക ആഘോഷവേളയിൽ പങ്കുചേർന്നുകൊങ്ങനെ പ്രതിജ്ഞ ചെയ്യുന്നു ന്റ

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URJA KIRAN 2021-22

Webinar Report (Submit separate reports for programs conducted at different venues)

WEBINAR

1	Sanction Letter No.	:	EMC/283/2021-ETC(ESS)dated 17.09.2021
2	Name of Conducting Agency	•	Sree Narayana College, Kannur
<u>2</u> 3	Date of Program	•	14.12.2021
<u> </u>	Place of Activity (Venue, Name of		ONLINE PLATFORM - Google meet
4	Local body & Assembly		Chelora, Elayavoor, Munderi, Edakkad
	Constituency)		Chelora, Elayavoor, Munueri, Euakkau
5	Time and Duration of Program		7.00pm to 8.30 pm Duration: 1.30 hours
5 6	Whether conducted Online or		Online
0	Offline		Omme
7	If conducted online specify web		Coogle most stich
'	platform used	:	Google meet- etlab
8			Srimathi. P P Divya (Kannur Jilla Panjayath
0	Name/(s) of Chief guest and other	:	President)
	persons participated (Attach copy of		
	program sheet)		Srimathi Anusha A (Preseident, Munderi)
			Srimathi. Mini K N (Council member, Kuruva, Edakkad)
			Srimathi. Sheheeda S. (Council member,
			Thazhechovva, Elayavoor)
			Srimathi.Rajani K P (Council member, Thilanoor,
			Chelora)
			Chelora)
9	Name of Resource person Handled	:	Dr. Prasanth K P (EMC resource person]
	training	•	DI. I fasantii IX I (EAVE resource person]
10	Specify whether the Resource	:	yes
10	person attended the refresher	•	5.05
	training of EMC		
11	Details of resource materials	:	Notice, Audio Video visuals, Distributed the
	distributed	-	participation certificate
12	Communication methods used	:	PPT, Videos provided from EMC and CED
	(Specify use of Audio-visual aids)		
13	Total Number of Participants	:	110
	(Attach list of participants as per		
	guideline)		
14	Category of Participants (Give	:	Public :20, SHG: 90
	numbers of general public/SHG		
	members/Local body		
	representatives/students etc.		
	participated)		
15	Details of feedback received from	:	Good (Feedback attached collected through google
	participants		form)
16	Was any problem faced during	:	no
-	implementation of the program? If		
	yes, what?		
	• *		

17	Remarks/Suggestions for improving the program	•	nil
18	List of attachments (Only	:	1. Utilization Certificate and Statement of Expenditure
	scanned/soft copies required)		(in EMC format)
			2. Program Notice/schedule
			3. List of participants
			4. Photographs of program (soft copy only-screenshots
			in the case of online program)
			5. News paper cuttings/channel video clips etc
			6. Others, if any
19	Report prepared by (Name &		Dr. Jeeshna M V (Asst. Professor, Department of
	Designation)		Botany, Sree Narayana College, Kannur)
20	Report approved by (Name & Designation)		

*Last date for submitting the report by email is 31st January 2022

URJA KIRAN 2021-22 Workshop Report

(Submit separate reports for programs conducted at different venues) WOMEN EMPOWERMENT PROGRAM – SREE NARAYANA COLLGE, KANNUR

1	Sanction Letter No.	:	EMC/283/2021-ETC(ESS)dated 17.09.2021
2	Name of Conducting Agency	:	Kannur thaluk
3	Date of Program	•	06.12.2021
4	Place of Activity (Venue, Name of		Sree Narayana College, Kannur Seminar Hall, Kannur Co-
-	Local body & Assembly Constituency)		operation and Kannur taluk
5	Time and Duration of Program		1.30 pm Duration: 4 hours
6	Whether conducted Online or Offline		Offline
7	If conducted online specify web	:	nil
'	platform used	•	
8	Name/(s) of Chief guest and other	:	Sri. Ramachandran Kadanapally, MLA, Kannur
U	persons participated (Attach copy of		Sri. Mini (Council member, Klzhuthally)
	program sheet)		Dr. Anitha P K (IQAC co-ordinator, SN College, Kannur)
9	Name of Resource person Handled	:	Dr. Prasanth K P (EMC resource person]
•	training	· ·	Dr. Nafeesa Baby T P (EMC resource person)
10	Specify whether the Resource	:	Both of the resource person attended the refresher course.
	person attended the refresher	1.	
	training of EMC		
11	Details of resource materials	:	LED Bulb , Notice , Audio Video visuals
	distributed		,,
12	Communication methods used	:	PPT, Videos provided from EMC and CED
	(Specify use of Audio-visual aids)		
13	Total Number of Participants (Attach	:	67
	list of participants as per guideline)		
14	Category of Participants (Give	:	Kannur Cooperation
	numbers of general public/SHG		
	members/Local body		
	representatives/students etc.		
	participated)		
15	Details of feedback received from	:	Good (Feedback attached)
	participants		
16	Was any problem faced during	1	no
	implementation of the program? If		
	yes, what?		
17	Remarks/Suggestions for improving	:	Please provide some hands on training
	the program		
40	List of otto show on to (Only	-	4 Litilization Contificate and Otatamant of Europeitiums (in ENAC
18	List of attachments (Only	1 :	1. Utilization Certificate and Statement of Expenditure (in EMC
	scanned/soft copies required)		format) 2. Program Notice/schedule
			3. List of participants
			 Photographs of program (soft copy only-screenshots in the case of online program)
			5. News paper cuttings/channel video clips etc
			6. Others, f any
19	Report prepared by (Name &	+	Dr. Jeeshna M V (Asst. Professor, Department of Botany,
13	Designation)		Sree Narayana College, Kannur)
20	Report approved by (Name &	+	
	Designation)		
	Designation		
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*Last date for submitting the report by email is 31st January 2022

URJA KIRAN 2021-22 Webinar

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Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR - がもらいんみ

Place.......Google meetDate....14.12.2021... 7.pm.

Assembly Constituency......KANNUR...(Chelora, Edakkad, Elayavoor, Munderi)......

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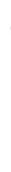
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URJA KIRAN 2021-22

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Webinar*/ Workshop.

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WOMEN EMPOWERMENT PROGRAMME Place.......SEMINAR HALL, SREE NARAYANA COLLEGE......Date.....06.12.2021 Time: 1.30 pm Name of Conducting Organization.....SREE NARAYANA COLLEGE, KANNUR....

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URJA KIRAN 2021-22 Webinar"/ Workshop Rally, Signature Campaign Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR

Place......PINARAYI, DHARMADAM.....Date...09.12.2021....

Assembly Constituency.....DHARMADAM.....

LIST OF PARTICIPANTS

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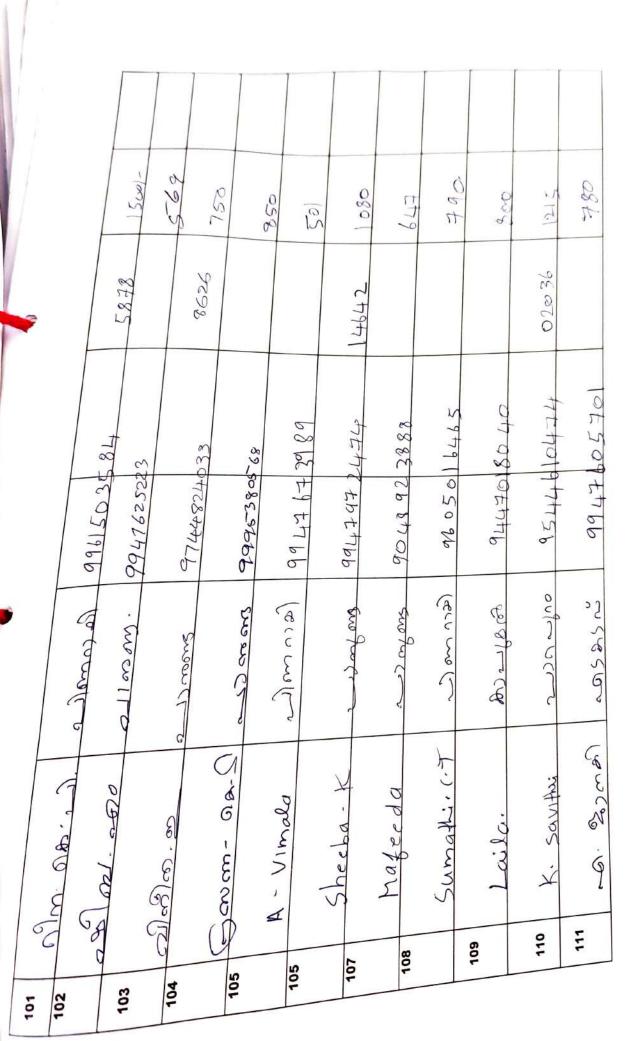
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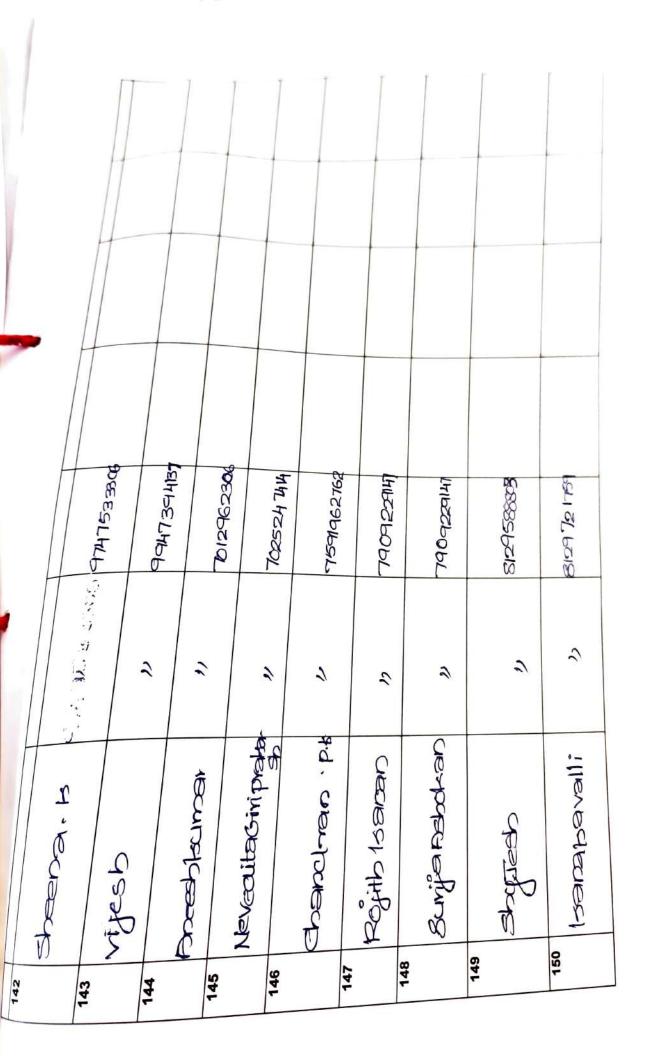
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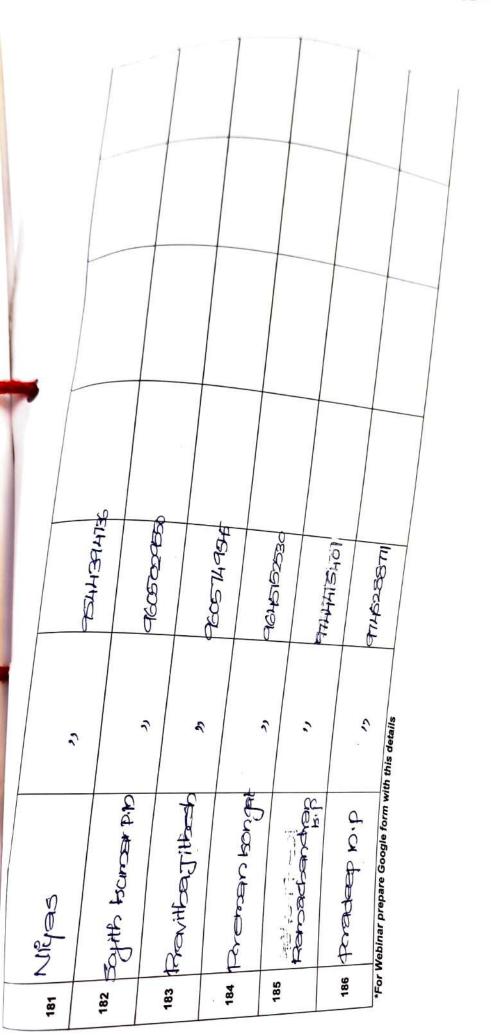


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ഉാർജ്ജ കിരൺ 2022 – 23 ശ്രീനാരായണ കോളേജ് കണ്ണൂർ ഡിപ്പാർട്ട്മെന്റ് ഓഫ് ബോട്ടണി

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ວາງອູດ ວາເພ ພອບສາຍາວ

എനർജി മാനേജ്മെന്റ് സെന്റർ കേരള, സി.ഇ.ഡി, എസ് എൻ കോളേജ് എന്നിവർ ചേർന്ന് ഊർജ്ജ സംരക്ഷണ സന്ദേശം ഉൾക്കൊള്ളിച്ച് ചുമർ ചിത്ര സമർപ്പണം എളയാവൂർ സോണൽ ഓഫീസ് മതിലിൽ വിസ്മയം ഒർുക്കുന്നു.



ഉദ്ഘാടനംഃ ശ്രീമതി: ഷിറ്റഹിന മൊയ്തീൻ _{(ചെയർപേഴ്സൺ,} ടാക്സ് അപ്പൽ സ്റ്റാന്റിംങ് കമ്മിറ്റി)

2023ഫെബ്രുവരി 28 വെകുന്നേരം 4:30





URJA KIRAN 2022-23 Innovation programmeReport

1	Name of Conducting Aganau	re either in Malayalam or English
	A conducting Agency	SREE NARAYANA COLLEGE, KANNUR
2	Date and time of Program	
3	Place of Anti-ity At	28.02.2023 , 4.30 pm
Ū	Place of Activity (Venue, Name of Local body & Assembly Constituency)	Elayavoor zonal office
4	Time and Duration of Program	
5	Name and Position of Chief and	two days (27.02.2023 and 28.02.2023)
	inaugurated	Ms. Shahina Moyideen (Chairperson, tax appeal standing committee)
		Mr. Ratheesh (Secretary , Elayavoor zonal office)
		Mr. Shaji (Cleark, Elayavoor Zonal office)
0	Category of Participants in	Dr K P Prasanth (EMC resource person)
	One numbers of depored and it vous	Public – 75
		Local body: 5 Students: 20
	epresentatives/students etc.	oragents: 20
D	Details of media persons attended	
	ic plogram fallach media reporte	Rashradeepika Gramika
Se	eparately}	News one
SE	ENT BY EMAIL	
W	as any problem faced during	nil
Wi	as any problem faced during plementation of the program? If	nil
Wi	as any problem faced during plementation of the program? If s, what?	nil
Wi	plementation of the program? If	nil
Wi im ye:	plementation of the program? If s, what?	nil
Wi im ye:	plementation of the program? If s, what? y other information to add/	nil
Wi im ye: Any Rer	plementation of the program? If s, what? y other information to add/ marks/Suggestions for improving	
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Any Rer the List Copie Origi post	y other information to add/ marks/Suggestions for improving program	nil 1. Utilization Certificate and Statement of Expenditure (in EMC format) 2. Program Notice/schedule (Already sent in mail) 3. News paper cuttings/channel video cline eta (sent to an eta)
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Any Rer the List copid Origi post Repo	y other information to add/ marks/Suggestions for improving program of attachments (Only scanned/soft es required except for UC & SoE – inal of UC and SoE to be send by or Courier to CED) ort prepared by (Name & gnation of program coordinator)	nil 1. Utilization Certificate and Statement of Expenditure (in EMC format) 2. Program Notice/schedule (Already sent in mail) 3. News paper cuttings/channel video clips etc (sent by mail) Dr Jeeshna M V Assistant Professor Department of Botany S N College, Kannur Dr. AJAYA KUMAR KOORMA PEN No: 470527 PRINCIPAL
Any Rer the List copid Origi post Repo	y other information to add/ marks/Suggestions for improving program of attachments (Only scanned/soft es required except for UC & SoE – inal of UC and SoE to be send by or Courier to CED) ort prepared by (Name & gnation of program coordinator)	nil 1. Utilization Certificate and Statement of Expenditure (in EMC format) 2. Program Notice/schedule (Already sent in mail) 3. News paper cuttings/channel video clips etc (sent by mail) Dr Jeeshna M V Assistant Professor Department of Botany S N College, Kannur Dr. AJAYA KUMAR KOORMA PEN No: 470527

URJA KIRAN 2022-23 Rally/Signature Campaign Report (Submit separate reports for programs conducted at different venues*)

1	1 Name of Conducting Agency	either in Malayalam or English SREE NARAYANA COLLEGE, KANNUR
-		CALLEGE, KANNUK
4	2 Date of Program	1710 0000 /
~	3 Place of Activity (Venue, Name of Local body & Assembly Constituency)	15:12.2022 VENGAD PANYATH OFFICE, VENGAD, DHARMADAM
	4 Time and Duration of Program	
	4a Rally starting point (Place & time)	2.00 PM TO 5.30 PM VENGAD PANJATH OFFICE, 2.15 PM
4	4b Rally End point (Place & time)	
		VANNAN MOTTA , 2.45 PM
4	Signature collection point (Place & time)	
4		VANNAN MOTTA BUS SHELTER (5.30 PM) 3 HOURS
5	Fund and Fusition of Chief queet	
	attended the Rally	P BALAN (MLA, REPRESENTATIVE)
6	Name and Position of Chief guest inaugurated the signature campaign	P BALAN (MLA, REPRESENTATIVE)
7	No. of placards used in Rally	16
8	Details of resource materials	
	distributed (Pamphlets, notice, stickers etc)	Pamplate, notice , stickers
9	Total Number of Participants in Rally (Attach separately the list with name & Mobile no.)	59
10	Category of Participants in Rally (Give numbers of general public/SHG members/Local body representatives/students etc.	Public – 5 Local body: 20 Students: 34
	participated)	
11	Total Number of Participants in Signature Campaign (Attach separately the list with name & Mobile	116
12	no.) Details of media persons attended	Rashradeepika
	the program {attach media reports (before and after program) separately}	Deshabhimani Malayala manorama Gramika
3	Places where the 2 banners were	
	permanently placed after rally	1. Vengad panjayath hall
		2. Vannante motta
	Place where the signature campaign boards were permanently placed	Vannante motta bus shelter
1	Details of feedback received from	They asked to conduct the time
4	bublic	They asked to conduct activity based program
N	as any problem faced during	
10000	nplementation of the program? If	nil

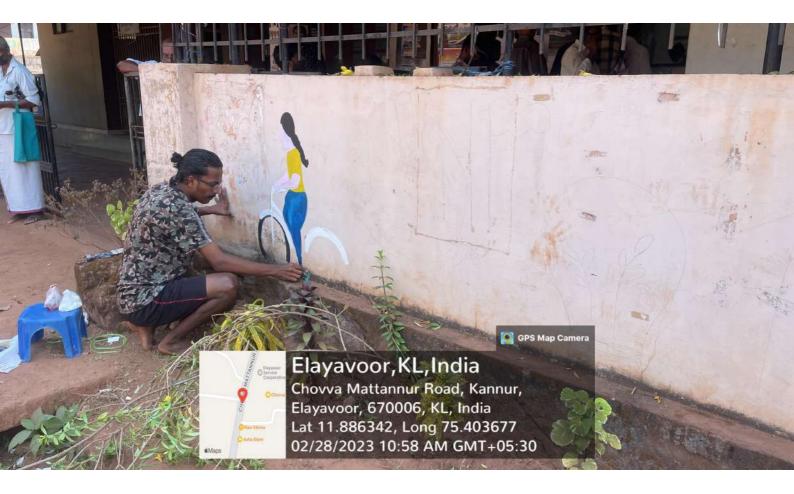
URJA KIRAN 2022-23 Workshop Report

	1 Name of Conducting Agency	pare	eith	rkshop Report programs conducted at different venues) her in Malayalam or English
	2 Date of Program	24	-	: Sree Narayana College, Kannur
+				25.01.2023
	3 Place of Activity (Venue, Name of Local body & Assembly Constituent	of	1	Kuzhiyil Peedika, Panjayath Com
+		icy)		Pedika, Vengad
	Time and Duration of Program		+	2.30 pm to 5.30 pm, 3 Hrs
	5 Name of Chief guest and other		-	
	program schedule separately)			: Geetha P (Panjayath President, Vengad) Chandran C (Vice President, Vengad) Vijina N (Standing Commity Chair person) Latha Kani (Haritha Kerala Mission, Resource person)
1	6 Name of Resource person Handl training	ed	:	
-				Radhakrishnan p P (EMC resource Person, Retd. Engineer
'	person attended the aplice		:	Yes, EMCRP-220176
8				
Ŭ	Details of resource materials distributed (Pamphlets, notice, stic etc)		:	X
	etc) etc)	kers		Pamplet, Notice
9	Communication methods used			
	(PPT/Videos/class etc.)		:	Class and Videos
0			:	148
	(Separately attach list of participants per guideline)	as		
1	Category of Participants (Cive		:	SHG :90
	numbers of general public/SHG members/Local body representatives		48	General public: 30
	/ students etc. participated)			
	Details of feedback received from participants			They are benefited by this program
	,			They asked their doubte
	Was any problem for the			They asked for Training program
	Was any problem faced during implementation of the program? If			No
	yes, what?			
+	Any other information to add/		-	
	Remarks/ Suggestions for improving			They told us to conduct the to
	the program			They told us to conduct training for LED Buld making
1	List of attachments (Only scanned/so	-	-	
1.8	copies required except for LIC & Car	:	1.	Utilization Certificate and Statement of Expenditure (in El format)
1	Unginal of UC and SoF to be cond by	1	2.	Program Notice/schedule
1	post or Courier to CED)		13.	LIST Of Darticipants
			4.	Photographs of program (soft copy only
			5	case of online program)
R	Report prepared by (Name &			News paper cuttings/channel video clips etc Others, f any
D	Designation of program coordinator)			Dr Jeeshna M V
	regian coordinator)		A	ssistant Professor
		(they	L G	Pept. of Botany,
Re	eport approved by (Name &			ree Narayana College, Kannur
De	esignation of Head of the institution)			
	Dr. AJAYA KUMAR KOORMA			
	PEN No: 470527			10
	PRINCIPAL			Payon - Dan
	SREE NARAYANA COLLEGE			40
	KANNUR			200
				1171

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ശ്രീ നാരായണ കോളേജ് കണ്ണൂർ ഡിഷാർട്മെൻറ് ഓഫ് ബോട്ടണി **ഉാർജ്ജ കിരണ്** 2022 – 23

ഊർജ്ജ സംരക്ഷണ ബോധവൽക്കരണ പരിപാടി ധർമ്മടം മണ്ഡലം

ഊർജ്ജ കാര്യശേഷിയും് ബോധവൽക്കരണ ശില്പശാല

2023 ജനുവരി 25 ബുധനാഴ്ച്ച **2.30** PM

സ്ഥലം : പഞ്ചായത്ത് കമ്വുണിറ്റി ഹാൾ, കുഴിയിൽ പീടിക, വേങ്ങാട്



ഉദ്ഘാടനം: രീ പി ബാവാ

ശ്രീ.പി ബാലൻ (എം. എൽ. എ പ്രതിനിധി, ധർമ്മടം) വിഷയാവതരണം ശ്രീരാധാക്വഷ്ണൻ പി.പി ഇഎസി റിസോഴ്സ് പേഴ്സൺ റിട്ടകെസ് ഇ ബി എഞ്ചിനീയർ)

ഇഎസ് നസോഴസ് പേഴസ്ത് നട്ടങ്കെസ് ഇ ബ് എഞ്ഞനയ്) സംഘാടനം : എനർജി മാനേജ്മെൻറ് സെന്റർ , കേരള സെന്റർ ഫോർ എൻവിയോൺമെൻറ് 6 ഡെവലപ്മെൻറ്

പങ്കെടുക്കുന്നവർ അവരവരുടെ കെ.എസ്.ഇ.ബി. കൺസ്വൂമർ നമ്പർ കൊണ്ട് വരേണ്ടതാണ്



<mark>കാര്വപരിപാ</mark>ടി

സ്വാഗതം :	ഡോ: ജീഷ്ണ എം.വി
	ഊർജ്ജ കിരൺ കോ ഓർഡിനേറ്റർ)
ന്ന് പ്രത്യാക്ഷ :	ശ്രീമതി. ഗീത പി
	(പ്രസിഡന്റ്, വേങ്ങാട് പഞ്ചായത്ത്)
ഉദ്ഘാടനം :	ശ്രീ.പി ബാലൻ
	(എം. എൽ. എ പ്രതിനിധി, ധർമ്മടം)
നംഎത്ത	ശ്രീ. സി. ചന്ദ്രൻ
	(വൈസ് പ്രസിഡന്റ്, വേങ്ങാട് പഞ്ചായത്ത്)
:	ശ്രീമതി വിജിന എൻ
	(സ്റ്റാന്റിങ്ങ് കമ്മിറ്റി ചെയർ പേഴ്സൺ)
:	ശ്രീമതി ലത കാനി
	(ഹരിത കേരള മിഷൻ റിസോഴ്സ് പേഴ്സൺ)
:	ഡോ. കെ. അജയകുമാർ
	(പ്രിൻസിപ്പാൾ എസ്. എൻ. കോളേജ്)
ബോധവൽക്കരണ	
ക്ലാസ് :	ശ്രീ രാധാകൃഷ്ണൻ പി. പി
	(ഇ. എം. സി. റിസോഴ്സ് പേഴ്സൺ,
	റിട്ട,കെ. എസ്. ഇ. ബി. എഞ്ചിനീയർ)
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URJA KIRAN 2022-23 Rally/Signature Campaign Report

(Submit separate reports for programs conducted at different venues*)

Prepare either in Malayalam or English

1 2 3	Name of Conducting Agency Date of Program	SREE NARAYANA COLLEGE, KANNUR
	Date of Program	
3		15.12.2022
	Place of Activity (Venue, Name of Local body & Assembly Constituency)	VENGAD PANYATH OFFICE, VENGAD, DHARMADAM
4	Time and Duration of Program	2.00 PM TO 5.30 PM
4a	Rally starting point (Place & time)	VENGAD PANJATH OFFICE, 2.15 PM
4b	Rally End point (Place & time)	VANNAN MOTTA , 2.45 PM
4c	Signature collection point (Place & time)	VANNAN MOTTA BUS SHELTER (5.30 PM)
4d	Time spent by volunteers for collecting Signature (Hours)	3 HOURS
5	Name and Position of Chief guest attended the Rally	P BALAN (MLA, REPRESENTATIVE)
6	Name and Position of Chief guest inaugurated the signature campaign	P BALAN (MLA, REPRESENTATIVE)
7	No. of placards used in Rally	16
8	Details of resource materials distributed (Pamphlets, notice, stickers etc)	Pamplate, notice , stickers
9	Total Number of Participants in Rally (Attach separately the list with name & Mobile no.)	59
10	Category of Participants in Rally (Give numbers of general public/SHG members/Local body representatives/students etc. participated)	Public – 5 Local body: 20 Students: 34
11	Total Number of Participants in Signature Campaign (Attach separately the list with name & Mobile no.)	116
12	Details of media persons attended the program {attach media reports (before and after program) separately} SENT BY EMAIL	Rashradeepika Deshabhimani Malayala manorama Gramika
13	Places where the 2 banners were permanently placed after rally	 Vengad panjayath hall Vannante motta
14	Place where the signature campaign boards were permanently placed	Vannante motta bus shelter
15	Details of feedback received from public	They asked to conduct activity based program
16	Was any problem faced during implementation of the program? If yes, what?	nil

17	Any other information to add/ Remarks/Suggestions for improving the program	nil
19	List of attachments (Only scanned/soft copies required except for UC & SoE – Original of UC and SoE to be send by post or Courier to CED)	 Utilization Certificate and Statement of Expenditure (in EMC format) Program Notice/schedule (Already sent in mail) List of participants (Name & Mobile no. only) Photographs/short videos of program (already sent in mail) News paper cuttings/channel video clips etc (already sent by mail)
20	Report prepared by (Name & Designation of program coordinator)	Dr Jeeshna M V Assistant Professor Department of Botany S N College, Kannur
21	Report approved by (Name & Designation of Head of the institution)	

*Last date for submitting the report by email is 25th December 2022

Address to send original of UC and SoE: Executive Director Centre for Environment and Development Thozhuvancode, Vattiyoorkavu P.O.Thiruvananthapuram - 695013 Phone: 471 2369720 Mobile: 9495627867

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URJA KIRAN 2022-23 Seminar

Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR

Place......kuzhiyil pedika vengadDate...25.1.2023... 2.30 pm.

Assembly Constituency......KANNUR...(Dharmadam).....

LIST OF PARTICIPANTS

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URJA KIRAN 2022-23

Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR

Place....... ElayavoorDate...21.01.2023... Time : 10.00am.

Name of Participant

SINO

Assembly Constituency......KANNUR...(Elayavoor Samskarika samithi Hall, Elayavoor)......

LIST OF PARTICIPANTS

Email Ad Mobile No. Local body Name

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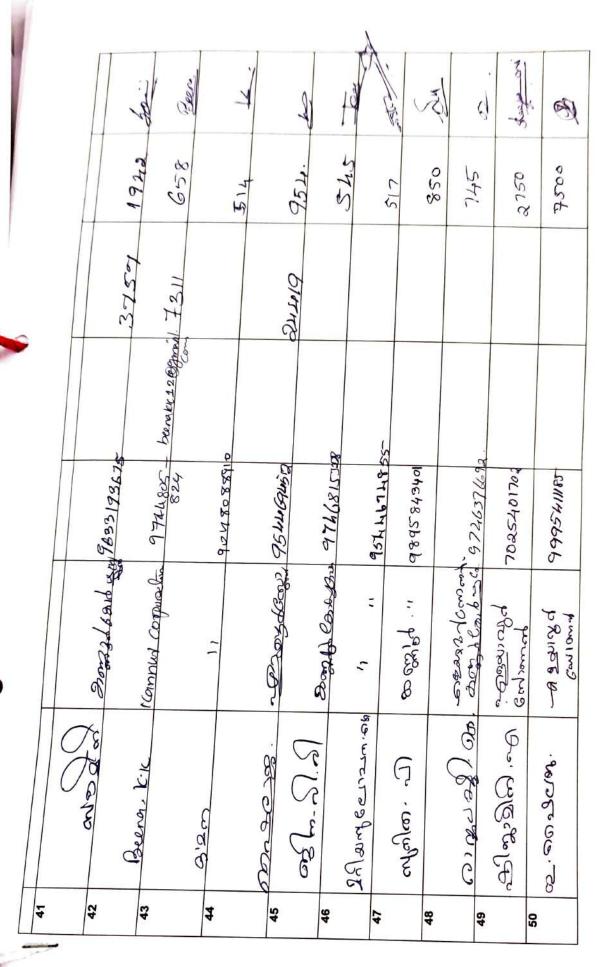
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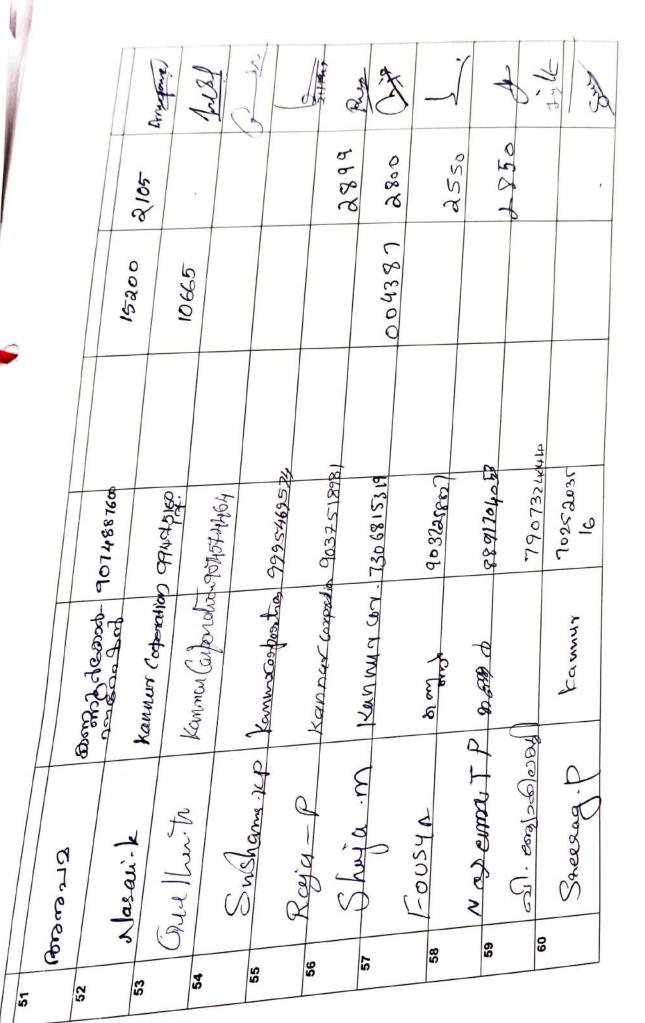
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URJAKIRAN 2019-2023 SREE NARAYANA COLLEGE KANNUR

ATTENDANCE SHEET FROM 2019-2023

LED BULB REPAIRING PROGRAM (MEMBERS OF CHEMBILODE, CHIRAKKAL AND MUNDERI) on 21.03.2019

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URJA KIRAN 2021-22

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WOMEN EMPOWERMENT PROGRAMME Place.......SEMINAR HALL, SREE NARAYANA COLLEGE......Date.....06.12.2021 Time: 1.30 pm Name of Conducting Organization.....SREE NARAYANA COLLEGE, KANNUR....

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URJA KIRAN 2021-22 Wobinar"/ Workshop Rally, Signature Campaign

Place......PINARAYI, DHARMADAM.....Date...09.12.2021....

Assembly Constituency.....DHARMADAM.....

LIST OF PARTICIPANTS

Feed back								
Last two months bill amount (Rs)	800	440	405	339	6921	635	300	1.7.00
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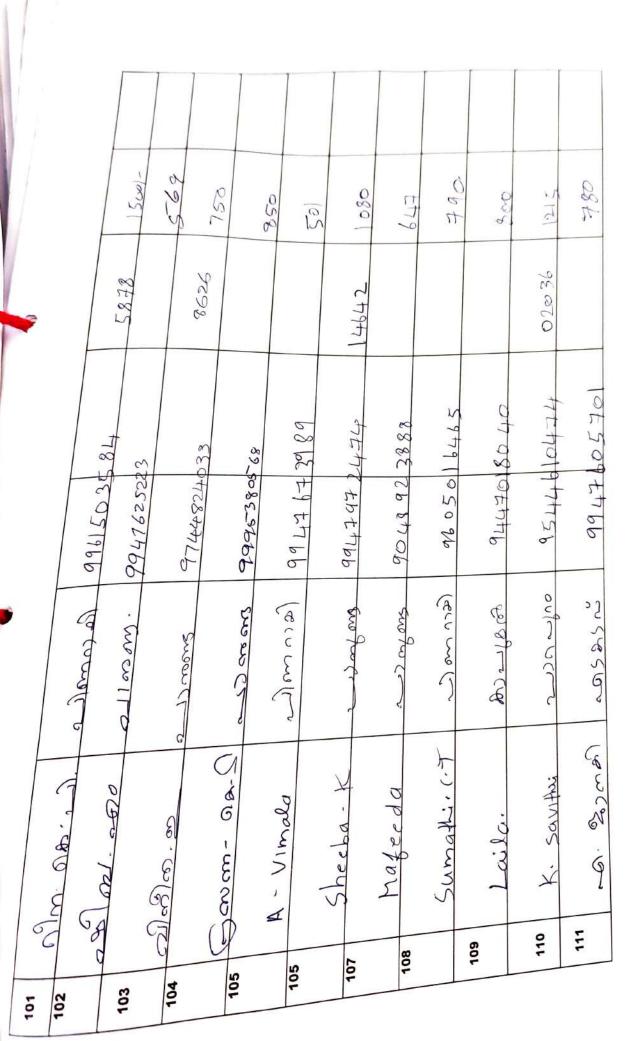
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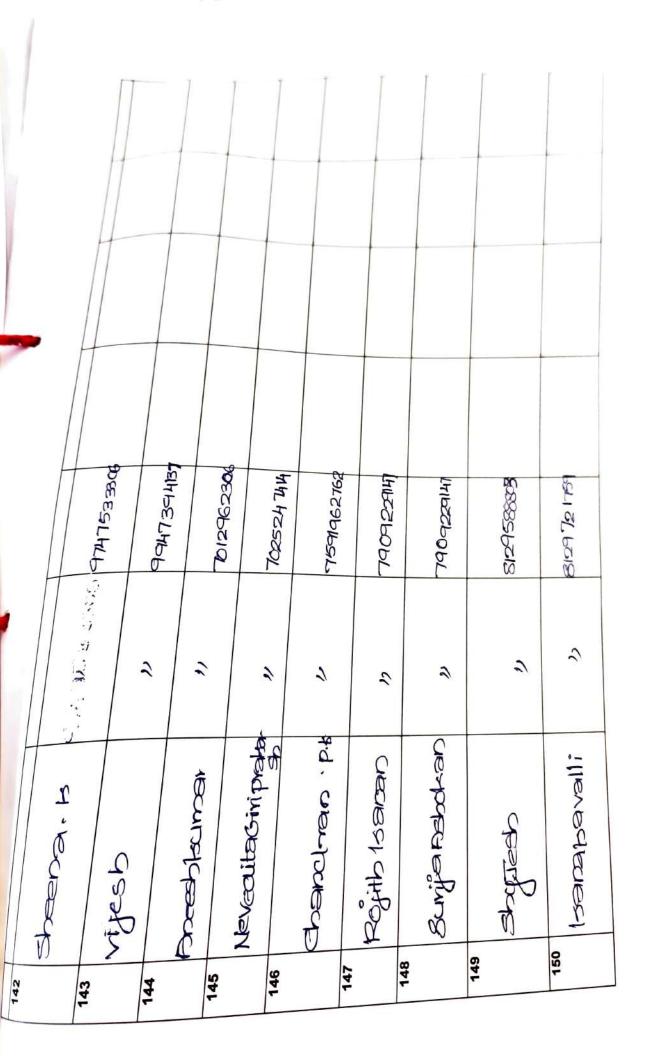
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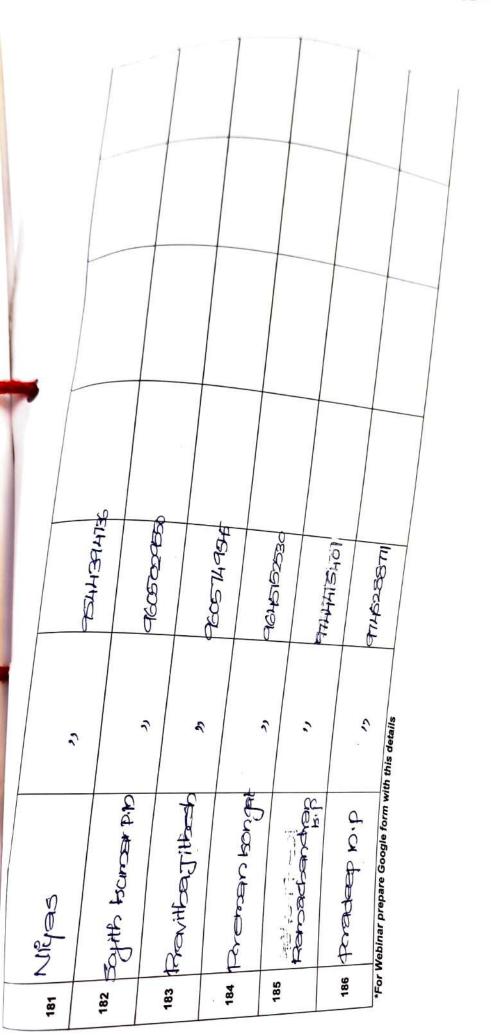


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URJA KIRAN 2021-22 Webinar

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Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR - がもらいんみ

Place.......Google meetDate....14.12.2021... 7.pm.

Assembly Constituency......KANNUR...(Chelora, Edakkad, Elayavoor, Munderi)......

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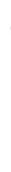
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URJA KIRAN 2022-23 Seminar

Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR

Place......kuzhiyil pedika vengadDate...25.1.2023... 2.30 pm.

Assembly Constituency......KANNUR...(Dharmadam).....

LIST OF PARTICIPANTS

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URJA KIRAN 2022-23 Seminar

Name of Conducting Organization,.....SREE NARAYANA COLLEGE, KANNUR

Place......kuzhiyil pedika vengadDate...25.1.2023... 2.30 pm.

Assembly Constituency......KANNUR...(Dharmadam).....

LIST OF PARTICIPANTS

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URJAKIRAN 2019-2023 SREE NARAYANA COLLEGE KANNU

NEWS PAPER CLIPPINGS FROM 2019-2023

URJAKIRAN NEWSPAPER CLIPPINGS

DESHABHIMANI 07/12/2022 (Awareness Programme on Energy Management)



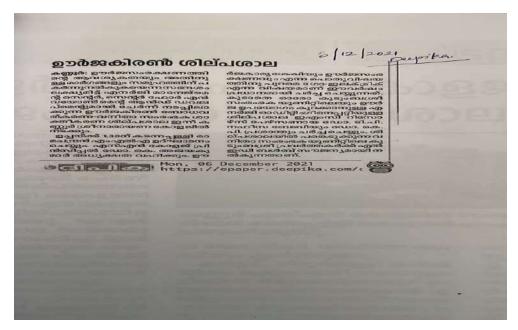
07/12/2021 KERALA KAUMADI







RASHTRADEEPIKA 06/12/2021



10/12/2021 KERALA KAUMADI



10/12/2021 DEEPIKA (Energy Conservation Rally and Signature Campaign)



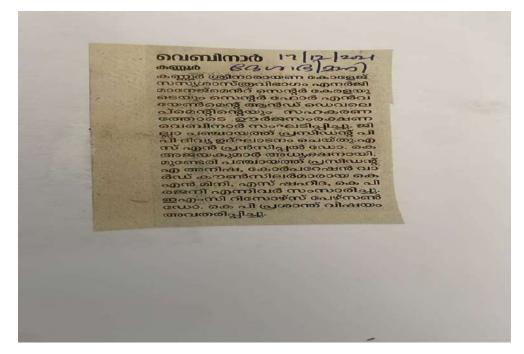
DESHABHIMANI 10/12/2021



09/12/2021 DEEPIKA



DESHABHIMANI 17/12/2021(Webinar on Energy Conservation)



DESHBAHIMANI 29/01/2021

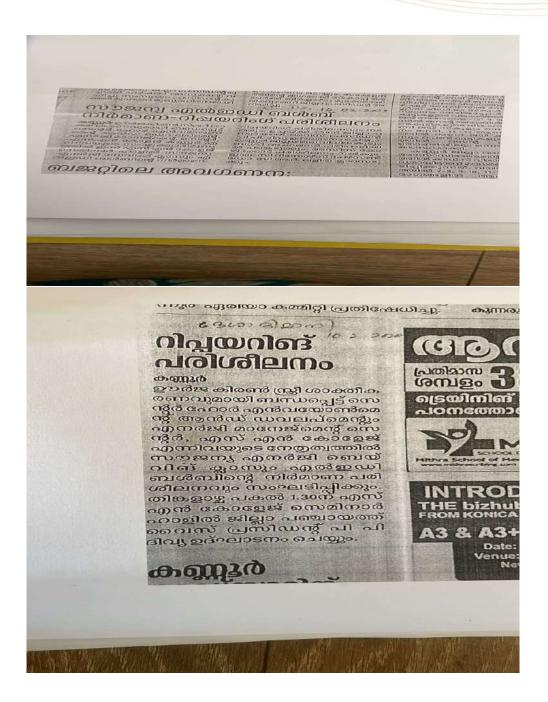




DEEPIKA 11/02/2020 (LED Bulb Manufacturing Hands on Training)

11/02/2020





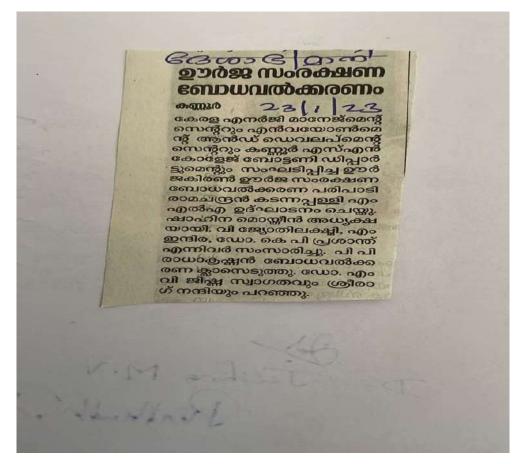


11/02/2020 KERALA KAUMADI (LED Bulb Hands on Training)

10/02/2020 DEEPIKA



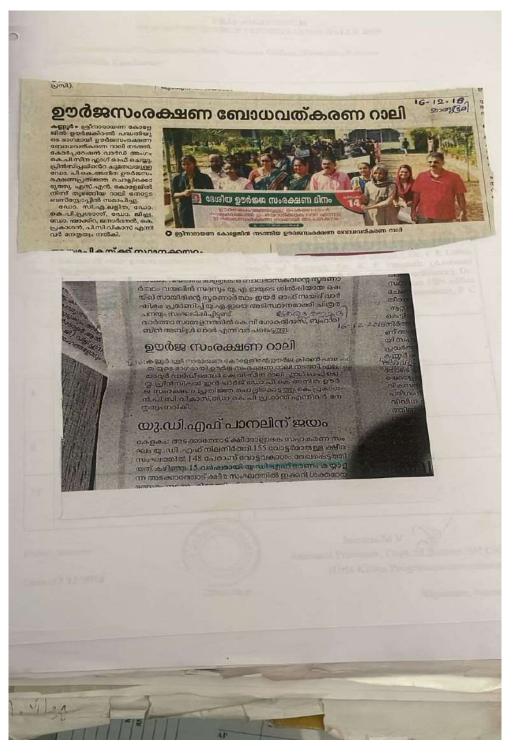
DESHABHIMANI 23/01/2023 (Awarenes Class on Energy Conservation)



Awareness Campaign on Energy Management

27/03/2019 DEEPIKA





16/12/2018 MATHRUBHUMI , DESHABHINAI (Energy Conservation Rally)

URJA KIRAN ENERGY CONSERVATION RALLY 16/12/2018

