



THE COCHIN COLLEGE

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University

Re-accredited by NAAC With B+ Grade



Fourth Cycle
NAAC Accreditation 2024

Criterion 1 Curricular Aspects

1.3 - Curriculum Enrichment

Metric No. 1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Energy Audit Report

Submitted to



National Assessment and Accreditation Council



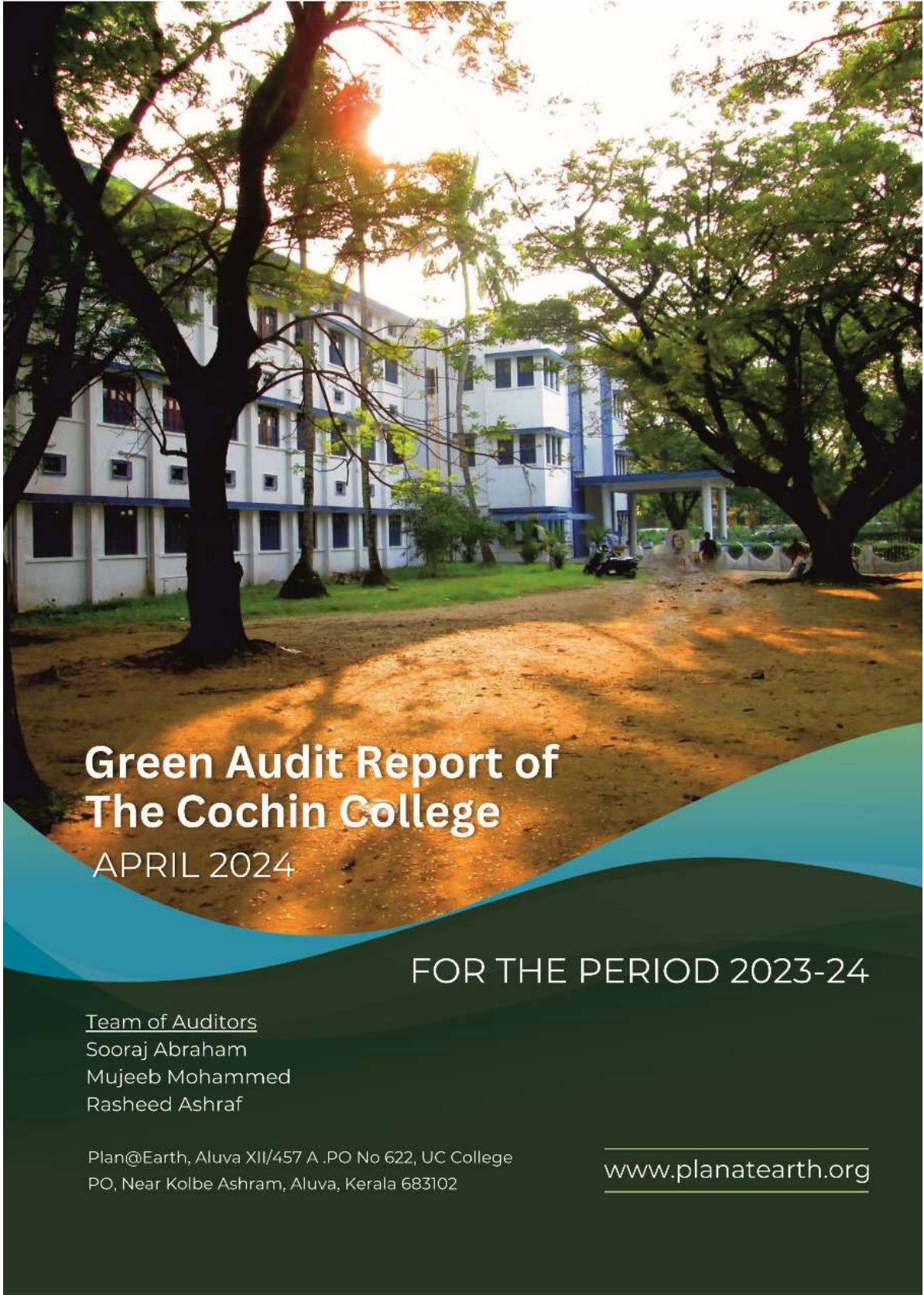
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

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Green Audit Report of The Cochin College

APRIL 2024

FOR THE PERIOD 2023-24

Team of Auditors

Sooraj Abraham

Mujeeb Mohammed

Rasheed Ashraf

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Back Ground

The Cochin College, is a center of higher learning based in the commercial hub of Kerala, Cochin. With the spread of universal education during the early 20th century, Kochi witnessed the establishment of numerous high schools. The emphasis on primary and secondary education significantly increased literacy rates and academic aspirations among the local populace. However, as the number of educated young individuals grew, so did the need for higher education institutions. The community's demand for a local college where students could pursue advanced studies became increasingly evident.

In response to this pressing need, the erstwhile Municipality of Kochi and the Indian Chamber of Commerce & Industry, Kochi, recognized the importance of providing higher education facilities within the city. These two influential bodies took the initiative to address the educational gap. They jointly sponsored the formation of "The Cochin Education Society," a dedicated organization aimed at establishing and managing educational institutions.

The collaborative efforts of the Municipality and the Indian Chamber of Commerce culminated in the founding of The Cochin College. This institution was envisioned as a beacon of knowledge and learning, designed to cater to the academic aspirations of Kochi's youth. The establishment of the college was a landmark event, fulfilling a long-cherished dream of the local community.

The Cochin College opened its doors to students with a commitment to providing quality higher education. It offered a range of courses and programs designed to equip students with the knowledge and skills necessary for personal and professional success. The college quickly became a symbol of hope and progress, reflecting the collective aspirations of Kochi's citizens.

Over the years, The Cochin College has grown and evolved, continually adapting to the changing educational needs of the community. It has expanded its academic offerings, introduced new disciplines, and enhanced its infrastructure to provide a conducive learning environment. The college's faculty comprises dedicated educators and scholars who are committed to mentoring and guiding students towards academic excellence.

Today, The Cochin College stands as a testament to the vision and efforts of its founders. It embodies the spirit of Kochi—resilient, forward-looking, and deeply rooted in a rich cultural heritage. The institution not only imparts education but also





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fosters a sense of community and civic responsibility among its students. It encourages them to engage with societal issues and contribute positively to the development of Kochi and beyond.

Students

Total No of Male Students: 699

Total No of Female Students: 1223

Total No of Students: 1922

Teachers

Total: 100

Non – Teaching Staff

Total: 37

The Cochin College with in unique history and limited resources for infrastructure development is still committed towards going green. In this age where the environment is recognized as a vital component of human existence and progress, the college has formulated progressive policies to ensure that the activities of the collage cause minimal repercussions on the environment and an atmosphere conducive to education is provided. The aspects of safety, security and well-being are addressed in a good manner. The institution has initiated and implemented measures to reduce its carbon foot print and move in compliance with norms and rules pertaining to an educational institution.





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Basic Data

The Cochin College stands on a property of 7.83 acres.

The Land Use- Land Cover ratio seems justifiable with more than 50 % of the campus having green cover in the form of sprawling trees, grass covered football ground, shrubs and gardens.

Policies towards reducing the carbon foot print and serve as guidelines for the green initiatives of the college are included in the annexure I

As part of the institution's commitment toward becoming a cleaner, greener campus that provides a conducive environment suitable for learning and human activity measures are being adopted in planned stages. To ensure that various academic and allied activities are carried out with minimal harm to the environment and resources are put to judicious use, policies have been framed and ratified. Wholly imbibing the spirit of Lester Brown's words that "we have not inherited this earth from our forefathers, we have borrowed it from our children" the institution which is a center of learning tries to reflect this in all its operations, while at the same time recognizing that many of these measures are to be progressively upscaled and stepped up. The management of the college believes that future generations who walk through the portals of the college should feel that significant efforts were made to make the campus clean and green.





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Greenery on the Campus





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Land Use-Land Cover evidently in favour of open spaces and green cover



The college has a good mix of endemic trees and ornamental plants. The very fact that the college has done a study of biodiversity of the campus shows how committed the teachers, staff and management is towards conserving the flora and fauna of the campus.

The list of trees and other greenery on the campus is given in Biodiversity Report on Annexure II

Recommendation: Scope for a bio-diversity corner or a butterfly garden





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Water Audit

The source of water to the campus is the municipal corporation. The water is tested and reports are shared here. The average consumption of water in the campus is 100-25 kilo liter per day.

The college has taken measures to conserve water through the installation of a rain-water harvesting system with a capture area of the entire building of the campus and the run-off from the harvesting system being collected and used to recharge the rainwater reservoir pond on the campus. Pictures given below. coolers, the picture of which is given below Annexure III



Cooler for Drinking Water





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Recommendation: Waste water treatment and sewage treatment using aquatic plants or root zone method can be set up.

It is impressive to note that students and teachers of the Department of Zoology have done a study on the practical application of the root-zone system for sewage treatment as well as the replacement of commercial cleaning agents with bio enzyme cleaning agents made from pineapple and citrus waste.

Rainwater Harvesting

A rainwater harvesting unit has been installed in the campus to store the run off from the roof of the college. There is an impressive 1 lakh sq ft catchment area for rain water harvesting

Pictures of the unit are given below.





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Pic of Rainwater harvesting unit





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Waste Management Audit

Facilities available

1. Colour coded Waste bins are available
2. No flex banners are permitted on the campus



Plastic waste collection bins





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Plastic waste storage before handing over to authorized agency for recycling





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Marked and Labelled bins





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Waste is thus segregated at source and dry waste is handed over to the agency authorized by the local self-government and empaneled by the State Suchitwa Mission to manage and recycle plastic waste and other dry recyclables like paper.

MOU with Agency annexure IV

Food waste and organic waste are not a problem on the campus as almost all students and staff bring food from home and that too in steel tiffin carriers that do not contribute to plastic discards contaminated by food waste. Food delivery services like Swiggy and Zomato are not permitted on the campus.



W7X2+VRW, Cochin College Rd, Koovapadam, Chull
 Lat 9.949270°
 Long 76.252040°
 06/03/2024 12:45 PM

Students eating from steel tiffin carriers that produce zero plastic discards as a result of food packaging





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Compost pots where aerobic composting and vermicompost are done





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Leaf composter tank

Disposable plates are not used in the canteen, instead washable and reusable plates are used.

As part of the green protocol implemented in the campus, a good number of stainless-steel plates and cups have been purchased and which are lent out to each department when a department function or party is being conducted, resulting in zero waste from disposable plates and cups.





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Stainless steel vessels and containers contributing towards zero-waste-from-disposable plates and cups

Many of the snacks served in the canteen are non-packaged items reducing the generation of plastic waste in the campus.

Organic waste like dead leaves and garden trimmings are composed in compost rings.

E-Waste is stored in a separate storage room set aside exclusive for this. The room ensures the discarded gadgets and appliances are not exposed to the weather elements and pose zero hazard as it is kept under lock and key. Picture is given below.





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E-waste storage room

Recommendations

1. Have system to number, document and safely dispose e-waste components in a systematic way.
2. Enter into an agreement with a licensed agency to dispose e-waste





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Environmental Quality Audit

Toilets on the Campus (Students)

Ratio of male and female toilets

Males=1 toilet/40 students

Females=1 toilet/35

(Teaching & Non – Teaching Staff)

Staff=1 toilet/7 staff

Total No. of concreted and concealed (beneath the earth) covered Septic tanks: 8

Separate well-constructed toilets are available for men and women. Pics given below





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Pics of Toilets from doorway

Air and Noise

1. No studies have been conducted to monitor quality of air
2. No studies have been conducted to monitor noise level but since heavy machinery is not operated, the noise levels would seem to be well within limits

Recommendations

1. Conduct a study to check quality of air on the campus
2. Have a No-Horn zone declared within the campus





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Health Audit

Awareness classes, Health Checkups, Blood donation camps are organized under the Social Work Department which include awareness classes done on various health aspects like women's' hygiene, use of menstrual cups, anti-narcotics, anti-tobacco day, road safety

Policy on Anti-Narcotics annexure V

Safety Measures

First aid kit: first aid kit is available in every department of the college. It is easily accessible



Pic of first aid kit





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Pic of retiring room of women

There is easy Access to First Aid Kits. Retiring rooms are available for women students.

Ramp

A good ramp with a handrail is available enabling differently abled students and staff to access the college. The picture of this is given below.





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Pic of Ramp, currently being used by two differently abled students





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Fire Extinguishers

Fire Extinguishers are installed. Pictures of Fire-extinguishers are given below.



W7X2+VRW, Cochin College Rd, Koovapadam, Chull
 Lat 9.949270°
 Long 76.252040°
 07/03/2024 11:33 AM

Recommendations

1. Need to indicate a Common Assembly Point in case of disasters like fires
2. Disaster Training and First Aid training can be given to students





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W7X2+VRW, Cochin College Rd, Koovapadam,
Lat 9.949270°
Long 76.252040°
06/03/2024 11:33 AM

Chemistry labs have clear indication of Exit





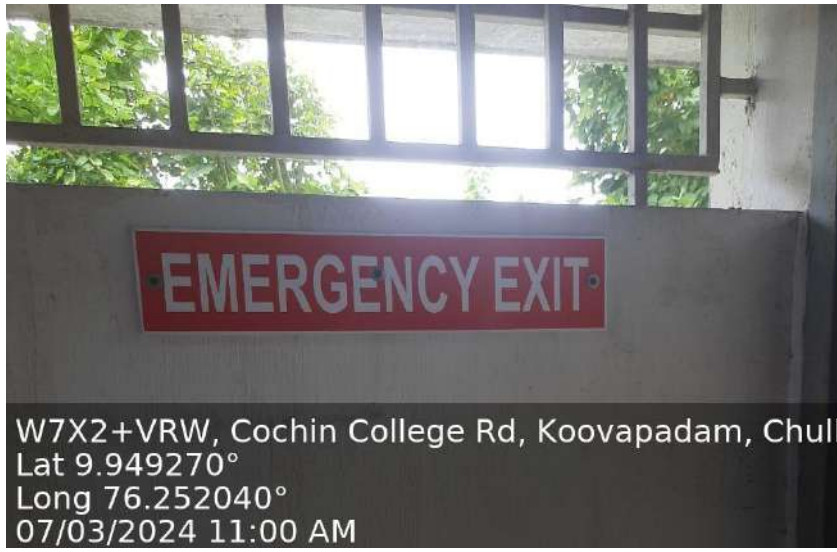
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W7X2+VRW, Cochin College Rd, Koovapadam, Chull
Lat 9.949270°
Long 76.252040°
07/03/2024 11:00 AM



W7X2+VRW, Cochin College Rd, Koovapadam,
Lat 9.949270°
Long 76.252040°
06/03/2024 11:37 AM

Chemistry labs have clear indication of Exit

SOP on Fire hazards Annexure VI





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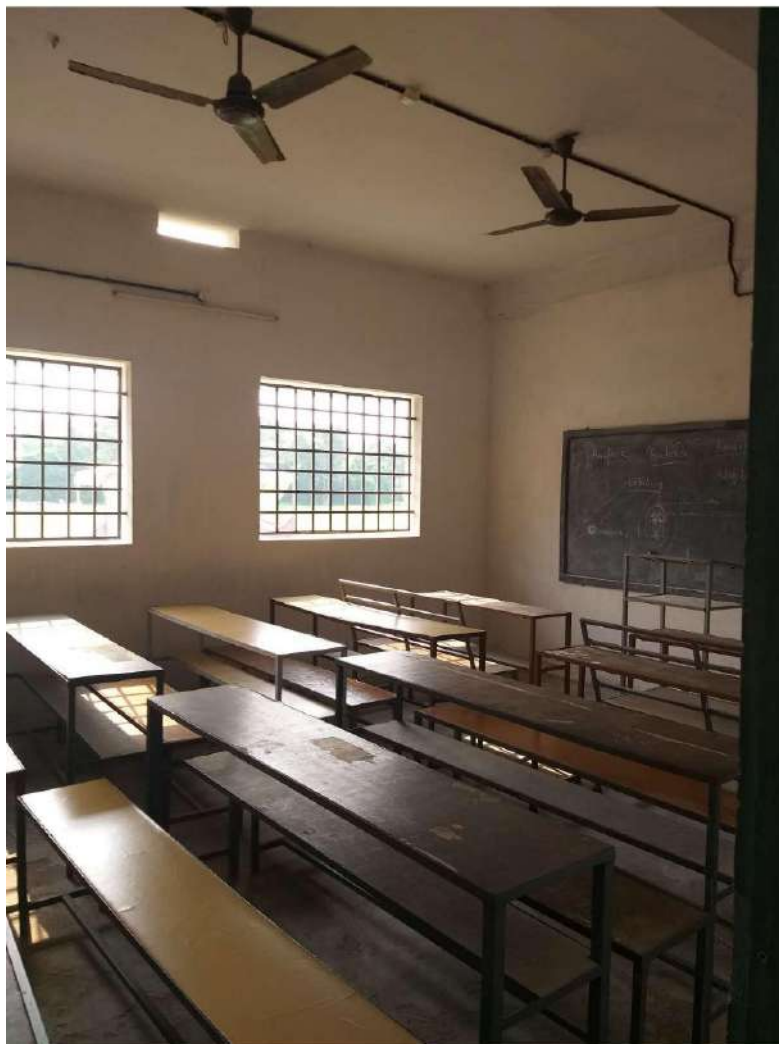
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Energy Audit

Using Renewable Energy

A remarkable feature observed about the buildings on the campus is that all class rooms have access to natural sunlight and this does away with the need for artificial lighting.

Pictures of well-lit class rooms given below





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Class rooms that are well ventilated and allow plenty of sunlight and fresh air





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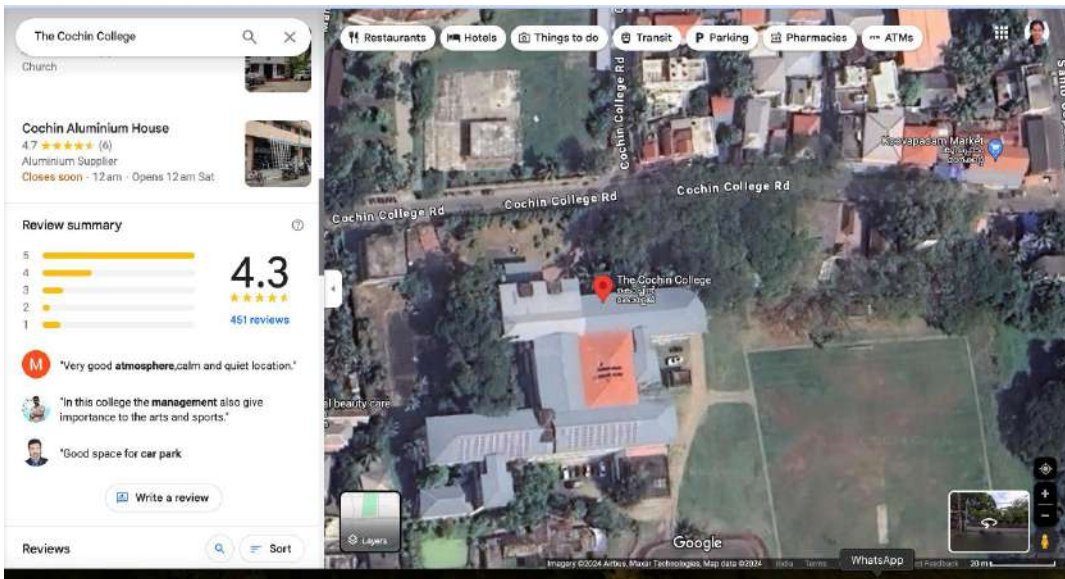
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Solar Panels

Solar Panels have been installed to harness the energy of the sun and this source of green energy is a big step towards reducing the carbon footprint of the college.



Solar panels installed





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The number of devices that work on power are listed in annexure VII

The power consumption of the College is recorded in the Power Bills attached in annexure VIII

Credit is due to the institution which has of LED bulbs and tubes and CFL Bulbs installed which significantly contributes to the reduction in consumption of power. The well aerated rooms do not require artificial cooling.

Fuel Consumption by Vehicles owned by Institution

No vehicles are owned or operated by the institution, hence use of fossil fuels for transportation is recorded as nil

1. Future purchase of Devices, BEE star rating to be ensured



Turn off lights – stickers on switch boards





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Out Reach Activities

The college has an impressive list of outreach activities for the community. Most of these help in sensitizing the community on various matters connected to environment conservation. The list of environment conservation activities is include in annexure IX. And the report is in annexure X.

Consolidated Report

The Cochin College is a unique model of higher education with the Corporation of Kochi being an important stake holder in the institution. The college has limits in funds for infrastructure improvement but whatever shortcomings are there in infrastructure are compensated in the green initiatives, policies and projects implemented by the college. The outreach activities for the community are exemplary examples of how a college can help a community towards environment sensitization and adoption of green practices. The well-being and student engagement in various activities is certainly worth mention. The measures taken by the college in areas relevant to environment as well as the wellbeing of human beings occupying and using the campus show that the college is on the right track. The measures and steps taken by the college to ensure a conducive environment for students and staff are noteworthy. While man's existence in harmony with the environment is always a project under progress, there are commendable and progressive measures on the campus in terms of drinking water, toilets, management of waste, shift to renewable energy and far-sighted policies to ensure least pollution and threat to the environment.

The institution has already installed rainwater harvesting unit and solar panels marking a shift to clean and renewable sources of energy. The college has policies on zero waste and zero pollution and actively organizes and involves students in programs towards sustainable policies and practices. Very rarely has the Green Protocol been so effectively implemented with a strict shift from the culture of plastic disposables towards reuse, reuse, refuse and redesign strategies.

The detailed report above points out the initiatives of the college in important areas as well as makes recommendations on how the institution can move even further towards becoming a green campus in every sense.





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List of Annexures

- Annexure I – Green Policies of the College
- Annexure II – Biodiversity Study
- Annexure III – Report of Water Testing
- Annexure IV – MoU with Agency
- Annexure V – Policy on Anti-Narcotics
- Annexure VI – SOP on Fire hazards
- Annexure VII – The number of devices that work on power
- Annexure VIII - Power Bills
- Annexure IX – List of Out Reach Activities
- Annexure X – Report of Out Reach Activities





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Annexure I – Green Policies of the College

Policy on Energy Conservation

The institution acknowledges the fact that energy is needed for most of the activities that need to be conducted on the campus and the institution in all humility accepts that energy is a valuable resource. Hence at every level the institution strives to make sure that energy and resources are judiciously.

Lighting and Ventilation

The classrooms and other rooms of the college are well ventilated and well-lit by sunlight during the day time which constitutes almost all the activity for the college. Hence there is minimal if no need to depend on artificial lighting. This goes a long way towards reducing the need for other sources of energy for the purpose of lighting. Care is taken during construction to ensure proper penetration of sunlight as well as cross ventilation limiting the need for air conditioning. In majority of the rooms occupied, a ceiling fan or two ensures circulation of air and limits and almost entirely eliminates the need for air conditioning.

Nevertheless, the college has considered and finalized the need to shift towards installing solar panels and thereby reduce the dependency on the state power supply. This transition towards solar energy is here by recorded as part of the institutions policy towards energy. Solar panels would be installed in phases and at the end of the phased installation, the college hopes to meet its energy needs with the help of solar power.

Fossil Fuels

Most of the students and staff depend on public transport or come on foot to the campus, further reducing the need for fossil fuel powered vehicles to be owned and operated by the institution. Hence it has been made policy that the college would not own or operate vehicles to transport staff or students since the college is situated along a bus route and there are plenty of buses plying along the route.

Main Points on the Policy of Energy Conservation

1. All classrooms and other rooms to be constructed in such a way that there is sufficient natural lighting from the sun and ventilation. This will reduce the need to use electrical devices for lighting and air circulation.





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2. Reminders Messages to be displayed near all switchboards in classrooms and other rooms to remind users to turn off lights and fans when the room is not occupied.
3. Possibilities and potential to install solar panels to be explored. Solar panels to be installed in phases so as to reduce the dependency on the state power supply and make the operations of the college more sustainable and carbon positive.
4. Since the college is located along a bus route, private vehicles are discouraged from entry into the campus as a means to encourage more and more staff and students to use public transport. This practice will bring down the carbon foot print of the institution as a whole.





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Policy on Waste Reduction and Management

Recognizing that plastic disposables are a major threat to the environment and sound waste management practices can go a long way towards making the campus carbon positive, the following measures have been incorporated into the zero-waste policy of the campus. The college aims to become a zero-waste campus within a period of 5 years.

1. All kind of burning is discouraged in the campus. This part of the policy ensures that even dead leaves and garden cuttings do not get burnt and contribute to carbon dioxide emissions. Instead, such garden waste is composted in leaf composters or compost pits.
2. Paper is by no means to be burnt but has to be collected and recycling ensured by handing over to scrap dealers who will ensure recycling
3. Plastic waste too must not be burnt but is to be handed over to recyclers or government agencies authorized to carry out scientific processing or disposal of plastic waste.
4. At the same time, in keeping with the state government's norm of zero waste, The Green Protocol has to be implemented in the campus.
5. As part of the Green Protocol, plastic disposables are to be banned on the campus especially disposable plates, cups and straws.
6. The college has to take initiative and invest in reusable utensils like steel plates and cups to be used as substitutes for plastic disposables and thus bring down the use of plastic disposables.
7. Flex banners have to be banned on the campus.
8. Styrofoam decorations and thermocol decorations have to be completely banned.
9. A system needs to be set up for the collection of disposable pens that students tend to use and the disposal of these through plastic recyclers.
10. E-waste generated on the campus has to be generated and documented. E-waste needs to be properly stored in a closed room with proper roofing. E-waste needs to be disposed only through authorized agencies.
11. The furnace and chimney that was originally constructed for burning of garden waste is to be decommissioned and used for some other purpose.
12. Sanitary waste like sanitary napkins have to be discouraged in favour of more sustainable practices like the menstrual cup.





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13. The practice of selling packaged snacks in the canteen has to be stopped. Or the canteen operators need to take the responsibility of the disposal of such packaging generated after the consumption of such snacks.
14. Packaged and parceled lunch in plastic packaging is discouraged, and students are encouraged to bring lunch in reusable lunch boxes or packages made of banana leaves.
15. Awareness programs have to be conducted for the students and staff on days like June 5th (World Environment Day) to educate them on the need to reduce waste.





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Funded by DBT Star College Scheme and Bhoomithra Sena Club The Cochin College.

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Mrudula Menon V.
Principal-in-Charge
The Cochin College



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1. ABOUT THE COLLEGE

The Cochin College was founded on July 15, 1967, in response to increasing demand for higher education in western Kochi. The college symbolizes the hopes and aspirations of the public of western Kochi and is a milestone in the crowded history of this commercial town. Slowly and steadily the institution grew into a post graduate college in 1995 from its humble beginning as a junior college in 1967. The college was started by the erstwhile Municipality of Kochi and the Indian Chamber of Commerce, Kochi. The college has been an abode for many generations of students and has a rich heritage of dedicated staff and teachers as well as an enterprising team of management, affiliated to Mahatma Gandhi University, boasting a history of five decades.

The Cochin College, located in the west Kochi of Ernakulum District. Cochin College situated at Mattancherry, Kochi and has an area of 31 acres land. The college is affiliated to MG University and offers various courses in both Science and Humanities at the degree level such as Physics, Chemistry, Zoology, Botany, Commerce, Economics, English Literature and Mathematics and self-financing courses offered at degree level are commerce, mathematics, computer application and business administration.

2. BIODIVERSITY REGISTER, 2023

The biodiversity register serves as a comprehensive tool designed to analyze the current biodiversity status of the college campus and, subsequently, to formulate plans aimed at enhancing the existing biodiversity. The process involves a biodiversity audit, which entails a thorough assessment of both flora and fauna through spot surveys. This approach not only contributes valuable data but also offers students a unique opportunity for hands-on learning experiences beyond the confines of a traditional classroom setting. Engaging in observational and identification exercises during the audit helps students refine their skills in recognizing and categorizing various plant and animal species.

The biodiversity audit employed a systematic approach, including random transect and quadrant observation walks. These activities allowed the student community to actively participate in classifying the rich biodiversity within the campus. This immersive learning experience creates an environment that is conducive to improving observational skills and deepening understanding. It also provides students with a tangible connection to the natural world, fostering a sense of appreciation and responsibility for the environment.

The results of the biodiversity audit indicate that there is room for improvement in both faunal and floral diversity on the campus. In response to these findings, a planned greening program is proposed. This program aims to enrich the campus environment by introducing more native organisms, thereby enhancing the overall biodiversity. Through these initiatives, the college not only contributes to the preservation of local ecosystems but also offers students a holistic educational experience that extends beyond textbooks, promoting a sense of ecological stewardship and sustainability.





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3. AIM

To document the list of flora and fauna of the Cochin college campus and prepare a Campus Biodiversity register.

4. OBJECTIVES

- To identify the floral and faunal diversity of the college.
- To estimate the density of the selected taxon and prepare a biodiversity register for the college

5. METHODOLOGY

Spot survey method was employed to assess diversity of selected taxon in the college campus. An expert from TIES and selected volunteer students from the college conducted a walk through survey and enumerated biodiversity, covering nook and corners of the campus. The surveyed taxa includes trees, shrubs and herbs; birds, butterflies and odonates (dragonflies & damselflies). The field survey was conducted during the period April 2023. Data was recorded, analyzed and prepared the reports.

6. RESULTS AND OBSERVATION

Cochin College has very limited land (31 acres), and the campus is mainly occupied with buildings, ground and roads. Hence, at present relatively low biodiversity is existing in the campus.



Fig. 1. Blue tailed bee- eater





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6.1 Floral diversity of the campus

The campus has diverse plant life. A significant contributor to this botanical richness is the Herbal Garden, which stands as a focal point for the campus's overall floral diversity. Within this cultivated space, particular attention is drawn to the noteworthy density of key species such as *Polyalthia longifolia*, *Mangifera indica*, *Swietenia macrophylla*, *Syzygium cumini*, *Tectona grandis*, and *Samanea saman*, which exhibit the highest numbers in terms of population. In totality, a remarkable total of 123 distinct plant species flourish across the campus, contributing to a vibrant and dynamic ecological landscape. For a comprehensive understanding of the campus's botanical makeup, detailed information regarding the diversity and density of each individual plant species is meticulously provided below. This comprehensive documentation underscores the richness and importance of the diverse plant life that enhances the environmental quality of the campus.

Similar to the majority of college campuses in Kerala, almost all the trees found in the campus are planted during various years. A concerted effort is required to improve the biodiversity of the campus. Thematic biodiversity gardens like bamboo fence, native fruit trees, native shade trees, shall be installed in the campus. This will definitely improve the biodiversity of the campus.



Fig. 2. *Cananga odorata*





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Table 1. Checklist of plants found in the Cochin College campus

Sl.No.	Scientific Name	Malayalam Name	English Name	Number
1.	<i>Acacia auriculoformis</i>	അക്കേഷ്യ	NORTHERN BLACK WATTLE	1
2.	<i>Acacia catechu</i>	കരിങ്ങാലി	BLACK CUTCH	1
3.	<i>Acorus calamus</i>	വയമ്പ്	SWEET FLAG	1
4.	<i>Adenantha pavonina</i>	മഞ്ചാടി	CIRCASSIAN TREE	1
5.	<i>Adhatoda vasica</i>	ആടലോടകം	MALABAR NUT	1
6.	<i>Aegle marmelos</i>	കുവളം	INDIAN BAELE	1
7.	<i>Aerva lanata</i>	ചെറുള	MOUNTAIN KNOT	1
8.	<i>Alangium salviifolium</i>	അങ്കോലം	SAGE LEAVED ALANGIUM	1
9.	<i>Aloe vera</i>	കറ്റാർവാഴ	ALOE	1
10.	<i>Alpinia calcarata</i>	ചിറ്റുരത്ത	INDIAN GINGER	1
11.	<i>Anacardium occidentale</i>	കശുമാവ്	CASHEW	1
12.	<i>Anthocephalus cadamba</i>	കടമ്പ്	BURFLOWER TREE	1
13.	<i>Aporosa lindleyana</i>	വെട്ടി	APOROSA	1
14.	<i>Artocarpus hirsutus</i>	ആഞ്ഞിലി	WILD JACK	2
15.	<i>Asparagus racemosus</i>	ശതാവരി	ASPARAGUS	1
16.	<i>Averrhoa bilimbi</i>	ഇരുമ്പൻ പുളി	BILIMBI	1
17.	<i>Azadirachta indica</i>	ആര്യവേപ്പ്	NEEM	1
18.	<i>Bacopa monnieri</i>	ബ്രഹ്മി	WATER HYSSOP	1
19.	<i>Barringtonia acutangula</i>	നീർപേഴ്	BARRINGTONIA	1
20.	<i>Bauhinia variegata</i>	ചുവന്ന മന്ദാരം	ORCHID TREE	1
21.	<i>Beloperone plumbaginifolia</i>	വിഷമുലി	SNAKE GRASS	1
22.	<i>Butea monosperma</i>	പ്ലാശ്	FLAME OF THE FOREST	1
23.	<i>Calotropis gigantea</i>	എരിക്ക്	GAINT MILK WEED	1
24.	<i>Cananga odorata</i>	കനകമരം	LANGI LANGI	1
25.	<i>Capsicum frutescens</i>	മുളക്	CHILLY	1
26.	<i>Carica papaya</i>	പപ്പായ	PAPAYA	1
27.	<i>Caryota urens</i>	ചുപ്പന	TODDY PALM	3
28.	<i>Cassia fistula</i>	കണിക്കൊന്ന	GOLDEN SHOWER TREE	2
29.	<i>Casuarina equisetifolia</i>	കാറ്റാടി	CASUARINA	1
30.	<i>Catharanthus roseus</i>	ശവനദി	MADAGASCAR PERIWINKLE	1
31.	<i>Chrysophyllum oliviforme</i>	സാർണ്ണപത്ര	STAR APPLE	1
32.	<i>Cinnamomum camphora</i>	കർപ്പൂരം	CAMPHOR	1
33.	<i>Cinnamomum verum</i>	കറുവ	CINNAMON	3
34.	<i>Cinnamomum verum</i>	വയന	CINNAMON	1
35.	<i>Cissus quadrangularis</i>	ചങ്ങലംപരണ്ട	VELDT GRAPE	1
36.	<i>Citrus limon</i>	ചെറുനാരകം	LEMON	4
37.	<i>Clitoria ternatea</i>	ശംഖ് പൂഷ്പം	ASIAN PIGEONWINGS	1
38.	<i>Cocos nucifera</i>	തെങ്ങ്	COCONUT	1
39.	<i>Coriandrum sativum</i>	മല്ലി	CORIANDER	1
40.	<i>Costus igneus</i>	ഇൻസുലിൻ ചെടി	INSULIN PLANT	1
41.	<i>Couroupita guianensis</i>	നാഗലിംഗമരം	CANNON BALL TREE	1





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Table 2. Checklist of plants found in the Cochin College campus

Sl.No.	Scientific Name	Malayalam Name	English Name	Number
42.	<i>Curculigo orchoides</i>	നിലപ്പന	BLACK MUSALE	1
43.	<i>Curcuma longa</i>	മഞ്ഞൾ	TURMERIC	1
44.	<i>Cycas circinalis</i>	ഈന്ത്	CYCAS	1
45.	<i>Cynodon dactylon</i>	കറുക	BERMUDA GRASS	1
46.	<i>Cyrtostachys renda</i>	ചുവന്നപന	RED PALM	2
47.	<i>Dalbergia latifolia</i>	ഈട്ടി	ROSE WOOD	1
48.	<i>Datura stramonium</i>	ഉമ്മം	DATURA	1
49.	<i>Delonix regia</i>	പുമരം	GULMOHAR	1
50.	<i>Diospyros buxifolia</i>	മലമുരിങ്ങ	BOX LEAVED PERSIMMON	1
51.	<i>Diospyros ebenum</i>	കരിമരം	EBONY	1
52.	<i>Duranta erecta</i>	ചെമ്പഴുക്ക	GOLDEN SPOT	1
53.	<i>Eclipta alba</i>	കയ്യന്നൂം	FALSE DAISY	1
54.	<i>Eryngium foetidum</i>	ആഫ്രിക്കൻ മല്ലി	LONG CORIANDER	1
55.	<i>Eupatorium triplinerve</i>	അയ്യപ്പന	AYAPANA	1
56.	<i>Ficus benjamina</i>	വെള്ളആൽ	WEeping FIG	1
57.	<i>Ficus elastica</i>	ശീമയാൽ	RUBBER FIG	1
58.	<i>Ficus microcarpa</i>	ഇന്തി	INDIAN LAURAL	1
59.	<i>Ficus recemosa</i>	അന്തി	CLUSTER FIG TREE	1
60.	<i>Ficus religiosa</i>	അരയാൽ	PEEPAL TREE	1
61.	<i>Flacourtia jangomas</i>	വയംഗത	COFFEE PLUM	1
62.	<i>Garcinia gummi-gutta</i>	കൂടംപുളി	MALABAR TAMARIND	1
63.	<i>Grevillea robusta</i>	സിൾവർഓക്ക്	SILVER OAK	1
64.	<i>Hemidesmus indicus</i>	നറുനീണ്ടി	INDIAN SARSAPARILLA	1
65.	<i>Hibiscus rosa sinensis</i>	ചെമ്പരത്തി	HIBISCUS	1
66.	<i>Holoptelea integrifolia</i>	ആവൽ	INDIAN ELM	1
67.	<i>Ixora coccinea</i>	ചെത്തി	IXORA	1
68.	<i>Justicia gendarussa</i>	ഒടിച്ചുകുത്തി	BLACK MALABAR NUT	1
69.	<i>Kaempferia galanga</i>	കച്ചേലം	AROMATIC GINGER	1
70.	<i>Lanea coromandelica</i>	കലശ്	INDIAN ASH TREE	1
71.	<i>Leucas aspera</i>	തുമ്പ	COMMON LEUCAS	1
72.	<i>Madhuca longifolia</i>	ഇലിപ്പ	INDIAN BUTTER TREE	6
73.	<i>Mangifera indica</i>	മാവ്	MANGO TREE	14
74.	<i>Mentha arvensis</i>	പുതിന	WILD MINT	1
75.	<i>Mentha piperita</i>	കർപ്പൂര തുള്ളസി	PEPPER MINT	1
76.	<i>Mesua nagassarium</i>	നാഗപ്പമരം	CEYLON IRONWOOD	1
77.	<i>Michelia champaca</i>	ചെമ്പകം	CHAMPAK	1
78.	<i>Mimusops elengi</i>	ഇലന്തി	BULLET WOOD	1
79.	<i>Morinda citrifolia</i>	നോഹി	INDIAN MULBERRY	1
80.	<i>Muntingia calabura</i>	പഞ്ചസാരപ്പഴം	JAMAICAN CHERRY	1
81.	<i>Murraya koenigii</i>	കറിവേപ്പ്	CURRY LEAF	1





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Table 3. Checklist of plants found in the Cochin College campus

Sl.No.	Scientific Name	Malayalam Name	English Name	Number
82.	<i>Mussaenda philippica</i>	മുസാണ്ട	MUSSANDA	1
83.	<i>Myristica fragrans</i>	ജാതി	NUTMEG	1
84.	<i>Nerium oleander</i>	അരളി	OLEANDER	1
85.	<i>Ocimum basiicum</i>	കൃഷ്ണതുളസി	HOLY BASIL	1
86.	<i>Ocimum tenuiflorum</i>	തുളസി	OCIMUM	1
87.	<i>Peltophorum pterocarpum</i>	മഞ്ഞക്കൊന്ന	COPPER POD	6
88.	<i>Phyllanthus embilica</i>	നെല്ലി	INDIAN GOOSEBERRY	1
89.	<i>Pimenta dioica</i>	സർവ്വസുഗന്ധി	ALLSPICE	1
90.	<i>Piper longum</i>	തിപ്പല്ലി	INDIAN LONG PEPPER	1
91.	<i>Piper nigrum</i>	കുരുമുളക്	BLACK PEPPER	1
92.	<i>Plumbago rosea</i>	ചുവന്ന കൊടുവേലി	INDIAN LEADWORT	1
93.	<i>Polyalthia longifolia</i>	അരണമരം	INDIAN MAST TREE	26
94.	<i>Pongamia pinnata</i>	ഉങ്ങ്	INDIAN BEECH TREE	2
95.	<i>Premna integrifolia</i>	മുഞ്ഞ	PREMNA	1
96.	<i>Psidium guajava</i>	പേരക്ക	GUAVA	7
97.	<i>Pterocarpus santalinus</i>	രക്തചന്ദനം	RED SANDAL	1
98.	<i>Punica granatum</i>	മാതളം	POMEGRANATE	1
99.	<i>Quassia amara</i>	കാസിയ	BITTER WOOD	1
100.	<i>Rauwolfia tetraphylla</i>	പാമ്പുംകൊല്ലി	WILD SNAKE ROOT	1
101.	<i>Rauwolfia serpentina</i>	സർപ്പഗന്ധി	INDIAN SNAKE ROOT	1
102.	<i>Samanea saman</i>	മഴമരം	RAIN TREE	15
103.	<i>Sansevieria roxburghiana</i>	സ്നേഹ് പ്ലാന്റ്	INDIAN BOWSTRING HEMP	1
104.	<i>Saraca asoca</i>	അശോകം	ASOKA TREE	1
105.	<i>Sauropus androgynus</i>	വേലിച്ചീര	SWEET LEAF	1
106.	<i>Spondias pinnata</i>	അമ്പഴം	WILD MANGO	1
107.	<i>Swietenia macrophylla</i>	മഹാഗണി	MAHOGANY	10
108.	<i>Syzygium aqueum</i>	ചമ്പ	ROSE APPLE	3
109.	<i>Syzygium cumini</i>	ഞാവൽ	BLACK PLUM	20
110.	<i>Tamarindus indica</i>	പുള്ളി	TAMARIND	1
111.	<i>Tectona grandis</i>	തേക്ക്	TEAK	12
112.	<i>Terminalia arjuna</i>	നീർമരുത്	ARJUN TREE	1
113.	<i>Terminalia catappa</i>	ബദാം	INDIAN ALMOND	7
114.	<i>Thespesia populnea</i>	പുവരൾ	INDIAN TULIP	1
115.	<i>Tinospora cordifolia</i>	ചിറ്റുമുത്ത്	HEART LEAVED MOONSEED	1
116.	<i>Tylophora indica</i>	വള്ളിച്ചില	INDIAN IPECAC	1
117.	<i>Vanilla planifolia</i>	വാണില	FLAT -LEAVED VANILA	1
118.	<i>Vernonia cinerea</i>	പുവരം കുറന്തൽ	LITTLE IRON WEED	1
119.	<i>Vitex negundo</i>	കരിനോച്ചി	CHASTE TREE	1
120.	<i>Woodfordia fruticosa</i>	താതിരി	FIRE FLAME BUSH	1
121.	<i>Zingiber officinale</i>	ഇഞ്ചി	GINGER	1





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Faunal diversity of the campus

The faunal diversity within the campus is relatively low, primarily influenced by the geographical characteristics of the area and a relatively sparse floral variety. The present survey enumerated the status of birds, butterflies, and odonates in the campus. Unfortunately, the findings indicate that both butterfly and odonate diversity are relatively quite low. This can be attributed, in part, to the unique landscape of coastal area, where campus is located. Coastal areas typically exhibit lower species diversity when compared to midland and highland regions. Adding to the challenges, the presence of a canal surrounding the college compounds the issue. The water in the canal is heavily polluted, primarily due to waste discharge from households and shops. This pollution is anticipated to have a detrimental impact on the diversity of water birds and odonates, further contributing to the overall limitation of faunal diversity within the campus. Efforts to address these environmental factors could potentially enhance the campus's ecological balance and foster a more diverse and sustainable faunal community.

More thematic garden like butterfly garden, a small pond of good quality water and aquatic plants for egg laying of odonates will certainly improve the biodiversity of the campus.



Fig. 3. Polluted canal near the college





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Fig.4. Common Myna

Birds of the Cochin college campus

The avian (bird) diversity of the campus is moderate, characterized by the presence of only a limited number of common bird species. The observed bird species in the campus are given in Table 2. However, the diversity of water birds (aquatic birds) is particularly scarce, a consequence of the highly polluted water body encircling the campus. This pollution has a discernible impact on the water bird population, contributing to the overall reduction in avian diversity. Notwithstanding the overall lower diversity, certain bird species exhibit a notable prevalence within the campus. The House crow, Black kite, Brahminy kite, and Rock pigeon, in particular, demonstrate a high density, making them prominent residents in the area. These observations shed light on the nuanced interplay between environmental factors, specifically the water quality, and the distribution and abundance of bird species in the study area. Addressing water pollution and implementing conservation measures could potentially improve the conditions for avian diversity in the campus.





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Over the course of the survey conducted in the campus, a total of 26 bird species were identified. While this figure may seem relatively modest, it represents a more robust avian diversity in comparison to the observed diversity of butterflies and odonates in the same area. The disparity highlights that, despite the apparent limitation in the number of bird species, the campus serves as a more conducive habitat for avian life as opposed to certain other insect groups. This contrast may be attributed to various ecological factors, such as vegetation types, food sources, and nesting opportunities that are more favorable for birds. Understanding these nuances in species distribution across different taxa is crucial for a comprehensive assessment of the campus's ecological dynamics, providing valuable insights into the biodiversity and ecological balance within the study area.



Fig. 5. Black kite





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Table 4. Checklist of birds of Cochin College campus (2023)

Sl.No.	Scientific Name	Malayalam Name	English Name
1.	<i>Eudynamys scolopaceus</i>	കുയിൽ	ASIAN KOEL
2.	<i>Dicrurus macrocerus</i>	ആനറാഞ്ചി പക്ഷി	BLACK DRONGO
3.	<i>Oriolus xanthornus</i>	മഞ്ഞക്കുപ്പൻ	BLACK HOODED ORIOLE
4.	<i>Milvus migrans</i>	ചക്കി പരുന്ത്	BLACK KITE
5.	<i>Dinopium benghalense</i>	നാട്ടുമരംകൊത്തി	BLACK RUMPED FLAMEBACK
6.	<i>Merops philippinus</i>	വേലിത്തത്ത	BLUE TAILED BEE EATER
7.	<i>Haliastur indus</i>	കൃഷ്ണപ്പരുന്ത്	BRAHMINY KITE
8.	<i>Bubulcus ibis</i>	കാലിമുണ്ടി	CATTLE EGRET
9.	<i>Acridotheres tristis</i>	നാട്ടുമൈന	COMMON MYNA
10.	<i>Orthotomus sutorius</i>	തൂന്നാരൻ	COMMON TAILER BIRD
11.	<i>Centropus sinensis</i>	ചെമ്പോത്ത്	GREATER COUCAL
12.	<i>Corvus splendens</i>	പേനക്കാക്ക	HOUSE CROW
13.	<i>Ardeola grayii</i>	കുളക്കൊക്ക്	INDIAN POND HERON
14.	<i>Turdoides striata</i>	കരിയിലക്കിളി	JUNGLE BABBLER
15.	<i>Egretta garzetta</i>	ചിന്നമുണ്ടി	LITTLE EGRET
16.	<i>Cinnyris lotenius</i>	കൊക്കൻതേൻകിളി	LOTEN'S SUNBIRD
17.	<i>Copsychus saularis</i>	മണ്ണാത്തിപ്പുളള	ORIENTAL MAGPIE ROBIN
18.	<i>Pycnonotus cafer</i>	നാട്ടു ബുൾബുൾ	RED VENTED BULBUL
19.	<i>Vanellus indicus</i>	ചെങ്കണ്ണി തിത്തിരി	RED WATTLED LAPWING
20.	<i>Pycnonotus jocosus</i>	ഇരട്ടത്തലച്ചി	RED WISKERD BULBUL
21.	<i>Columba livia</i>	മടപ്രാവ്	ROCK PIGEON
22.	<i>Psittacula krameri</i>	മോതിരത്തത്ത	ROSE RINGED PARAKEET
23.	<i>Pelargopsis capensis</i>	കാക്ക മീൻകൊത്തി	STOCK BILLED KINGFISHER
24.	<i>Amaurornis phoenicurus</i>	കുളക്കോഴി	WHITE BREASTED WATERHEN
25.	<i>Psilopogon viridis</i>	ചിന്നകുട്ടുറുവൻ	WHITE CHEEKED BARBET
26.	<i>Halcyon smyrnensis</i>	മീൻകൊത്തിച്ചാത്തൻ	WHITE THROTED KINGFISHER



Fig.6. Cattle Egret

Biodiversity Register – Cochin college campus





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Butterfly Diversity of the campus

The butterfly diversity within the campus is notably limited, and this is primarily attributed to the insufficient presence of both nectarine and host plants essential for attracting and sustaining butterflies. Nectarine plants provide a crucial food source for adult butterflies, while host plants serve as habitats for their eggs and caterpillars. The scarcity of these specific plant types in the campus creates a less-than-ideal environment for butterflies to thrive. Additionally, the overall lack of herbs and shrubs further diminishes the available habitat and resources for these delicate insects.

The survey identified a mere nine species of butterflies in the campus, and all of them are characterized as common. This further underscores the impact of the limited plant diversity on the butterfly population. Enhancing the variety and abundance of nectarine and host plants, as well as promoting the growth of herbs and shrubs, could potentially provide a more hospitable environment for a greater diversity of butterflies, fostering a healthier and more vibrant ecosystem within the campus. Addressing these ecological aspects is crucial for promoting biodiversity and supporting the various species that contribute to the overall ecological balance.



Fig. 7. Plain Tiger





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Table 5. List of Butterflies

Scientific Name	Malayalam Name	English Name
<i>Tirumala limniace</i>	നീലക്കടുവ	BLUE TIGER
<i>Ariadane merione</i>	ആവണച്ചോപ്പൻ	CASTOR
<i>Jamides celeno</i>	പൊട്ടുവാലാട്ടി	COMMON CERULEAN
<i>Euploea core</i>	അരളിശലഭം	COMMON CROW
<i>Captopsilia pomona</i>	മഞ്ഞത്തകരമുത്തി	COMMON EMIGRENT
<i>Danaus chrysippus</i>	എരികുരുപ്പി	PLAIN TIGER
<i>Leptosisa nina</i>	പൊട്ടുവെള്ളാട്ടി	PSYCHE
<i>Eurema hecabe</i>	മഞ്ഞപ്പാപ്പാത്തി	SMALL GRASS YELLOW
<i>Acraea violae</i>	തീച്ചിറകൻ	TOWNY COSTER



Fig. 8. Blue tiger





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Odonate Diversity of the campus

The campus exhibits notably low odonate diversity, and this deficiency extends to the scarcity of individuals within each species. The survey identified merely four species of odonates, and the numbers of individuals within each species were found to be less than three. This paucity is indicative of a constrained and less favorable environment for these dragonflies and damselflies. The presence of a canal encircling the campus and a pond within it adds an aquatic dimension to the habitat.

Unfortunately, the water quality in the canal is a significant factor contributing to the limited odonate diversity. The canal water is highly polluted, primarily due to the discharge of waste from households and shops. This pollution is starkly evident in the dragonfly species observed, specifically the Ditch Jewel (*Brachythemis contaminata*), which is known to thrive in contaminated water. The dominance of this particular species reflects the compromised water quality in the canal around the campus.

This situation underscores the crucial interplay between environmental conditions, specifically water quality, and the health of odonate populations. Addressing the pollution in the water body could potentially improve the habitat for odonates, fostering a more diverse and resilient population in the campus ecosystem.

Table 6. List of Odonates

Scientific Name	Malayalam Name	English Name
<i>Brachythemis contaminata</i>	ചങ്ങാതിത്തുമ്പി	DITCH JEWEL
<i>Orthetrum sabina</i>	പച്ചവയാളി	GREEN MARSH HAWK
<i>Diplacodes trivialis</i>	നാട്ടു നിലത്തൻ	GROUND SKIMMER
<i>Ceriagrion coromandelianum</i>	നാട്ടു ചതുപ്പൻ	YELLOW WAX-TAIL



Fig. 9. *Brachythemis contaminata*



Fig. 10. *Ceriagrion coromandelianum*



Fig. 11. *Orthetrum sabina* and *Diplacodes trivialis*





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7. CONCLUSION

The survey results revealed that the campus currently exhibits a relatively low level of biodiversity. Among the identified species, there were 123 plant species, 9 butterfly species, 4 odonate species, and 26 bird species. The limited diversity observed in these categories indicated the need for focused conservation efforts to enrich and sustain the ecosystem.

The biodiversity survey usually serves as a critical tool for understanding and improving the biological richness of an area. This will help to implement necessary management and conservation strategies in a sustainable manner, with the ultimate goal of enhancing biodiversity within the campus. The findings from the survey provided valuable insights on the current state of floral and faunal diversity.

One notable observation was the low diversity of odonate sightings during the survey, suggesting a potential concern regarding water quality. Odonates are often sensitive indicators of environmental health, and their absence could be attributed to high pollution levels in and around the campus. This emphasizes the importance of addressing pollution issues, particularly in water bodies such as ponds and canals, to create a more conducive and sustainable environment for a diverse range of species.

Biodiversity contributes significantly towards various ecological services and provides aesthetics to the campus. College shall formulate a Biodiversity policy for the campus with a thrust to the promotion of native local species. An action plan also may be drafted and implemented in a phase wise manner in order to enhance the campus biodiversity, surpassing all kinds of limitations.



Fig. 12. Brahminy kite

Biodiversity Register – Cochin college campus 17





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Oriental Magpie robin



Red Wattled lapwing



Jungle babbler



White-cheeked barbet



Red Vented Bulbul



Rock Pigeon





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Black-hooded oriole



Red whiskered bulbul



Common myna



Black Rumped Flameback



Asian Koel



Rose-ringed parakeet



White-throated kingfisher





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Black drongo



Greater coucal



Cattle Egret



Tailor bird



Indian Pond Heron



Brahminy Kite



White breasted Waterhen





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Blue tiger



Common cerulean



Common crow



Common emigrant



Plain tiger





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Peltophorum pterocarpum



Artocarpus hirsutus



Magnolia champaca



Mangifera indica



Canaga odorata



Casuarina equisetifolia





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COCHIN COLLEGE CAMPUS BIODIVERSITY REGISTER



TROPICAL INSTITUTE OF ECOLOGICAL SCIENCES

Ecological Research Campus, K.K.Road, Velloor.P.O., Kottayam - 686501. Kerala, India.

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Approved Research Centre, Mahatma Gandhi University, Kottayam.





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CERTIFICATE OF ANALYSIS | COPY

ULR - TC633824000015441F

No. KH 123421 / 2024

ADDRESS: XIII/1208, INTERPRINT HOUSE, KARUVELIPADY, KOCHI - 682005, KERALA, INDIA

CUSTOMER NAME & ADDRESS THE PRINCIPAL THE COCHIN COLLEGE KOCHI-682002 KERALA INDIA	DATE OF ISSUE : 16-03-2024
	SAMPLE RECEIPT : 14-03-2024
	SAMPLE CODE : KH/24/64560/C44328
	ANALYSIS STARTED : 14-03-2024
	ANALYSIS COMPLETED : 16-03-2024

INFORMATION PROVIDED BY CUSTOMER	
SAMPLE NAME	: DRINKING WATER
SAMPLE ID	: SF

OTHER INFORMATION	
CONDITION OF SAMPLE	: RECEIVED IN GOOD CONDITION
SAMPLE SUBMITTED BY	: CUSTOMER

TEST DONE AS PER IS 10500 : 2012

I. CHEMICAL TESTING : Water / Residues in Water							
SL NO.	PARAMETER TESTED	UNIT OF MEASUREMENT	REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE	TEST RESULT	LIMIT OF QUANTIFICATION (LOQ)	TEST METHOD
1	COLOUR	Hazen	Max 5	Max 15	1	1	IS 3025 (Part 4) : 1983, Reaff. 2002
2	ODOUR	--	AGREEABLE	AGREEABLE	AGREEABLE	--	IS 3025 (Part 5) : 2018
3	TURBIDITY	NTU	Max 1	Max 5	< 1	1	IS 3025 (Part 10) : 1984, Reaff. 2002
4	pH VALUE	pH units	6.5 to 8.5	6.5 to 8.5	7.22 AT 25° C	1	IS 3025 (Part 11) : 1983, Reaff. 2002
5	TOTAL DISSOLVED SOLIDS	mg/l	Max 500	Max 2000	42.0	10	IS 3025 (Part 16) : 1984, Reaff. 2006
6	TOTAL HARDNESS (as CaCO ₃)	mg/l	Max 200	Max 600	23.8	5	IS 3025 (Part 21) : 2009
7	CHLORIDE (as Cl ⁻)	mg/l	Max 250	Max 1000	9.93	5	IS 3025 (Part 32) : 1988, Reaff. 2007

Remarks: This sample conforms to the requirements (acceptable limits) specified in IS 10500:2012 (Indian Standard: Drinking Water - Specification) with respect to the parameters listed above.



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INTERFIELD LABORATORIES
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 SECTION IN-CHARGE (CHEMISTRY)
 16-03-2024
 AUTHORIZED SIGNATORY



Mendula Menon V.
Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



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	SAMPLE RECEIPT : 14-03-2024
	SAMPLE CODE : KH/24/64560/C44329
	ANALYSIS STARTED : 14-03-2024
	ANALYSIS COMPLETED : 16-03-2024

INFORMATION PROVIDED BY CUSTOMER	
SAMPLE NAME	: DRINKING WATER
SAMPLE ID	: GF
OTHER INFORMATION	
CONDITION OF SAMPLE	: RECEIVED IN GOOD CONDITION
SAMPLE SUBMITTED BY	: CUSTOMER

TEST DONE AS PER IS 10500 : 2012

I. CHEMICAL TESTING : Water / Residues in Water							
SL NO.	PARAMETER TESTED	UNIT OF MEASUREMENT	REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE	TEST RESULT	LIMIT OF QUANTIFICATION (LOQ)	TEST METHOD
1	COLOUR	Hazen	Max 5	Max 15	1	1	IS 3025 (Part 4) : 1983, Reaff. 2002
2	ODOUR	--	AGREEABLE	AGREEABLE	AGREEABLE	--	IS 3025 (Part 5) : 2018
3	TURBIDITY	NTU	Max 1	Max 5	< 1	1	IS 3025 (Part 10) : 1984, Reaff. 2002
4	pH VALUE	pH units	6.5 to 8.5	6.5 to 8.5	6.76 AT 25° C	1	IS 3025 (Part 11) : 1983, Reaff. 2002
5	TOTAL DISSOLVED SOLIDS	mg/l	Max 500	Max 2000	60.0	10	IS 3025 (Part 16) : 1984, Reaff. 2006
6	TOTAL HARDNESS (as CaCO ₃)	mg/l	Max 200	Max 600	31.7	5	IS 3025 (Part 21) : 2009
7	CHLORIDE (as Cl ⁻)	mg/l	Max 250	Max 1000	10.9	5	IS 3025 (Part 32) : 1988, Reaff. 2007

Remarks: This sample conforms to the requirements (acceptable limits) specified in IS 10500:2012 (Indian Standard: Drinking Water - Specification) with respect to the parameters listed above.



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	SAMPLE RECEIPT : 14-03-2024
	SAMPLE CODE : KH/24/64560/C44330
	ANALYSIS STARTED : 14-03-2024
	ANALYSIS COMPLETED : 16-03-2024

INFORMATION PROVIDED BY CUSTOMER	
SAMPLE NAME	: DRINKING WATER
SAMPLE ID	: C

OTHER INFORMATION	
CONDITION OF SAMPLE	: RECEIVED IN GOOD CONDITION
SAMPLE SUBMITTED BY	: CUSTOMER

TEST DONE AS PER IS 10500 : 2012

I. CHEMICAL TESTING : Water / Residues in Water

SL NO.	PARAMETER TESTED	UNIT OF MEASUREMENT	REQUIREMENT (ACCEPTABLE LIMIT)	PERMISSIBLE LIMIT IN THE ABSENCE OF ALTERNATE SOURCE	TEST RESULT	LIMIT OF QUANTIFICATION (LOQ)	TEST METHOD
1	COLOUR	Hazen	Max 5	Max 15	1	1	IS 3025 (Part 4) : 1983, Reaff. 2002
2	ODOUR	--	AGREEABLE	AGREEABLE	AGREEABLE	--	IS 3025 (Part 5) : 2018
3	TURBIDITY	NTU	Max 1	Max 5	< 1	1	IS 3025 (Part 10) : 1984, Reaff. 2002
4	pH VALUE	pH units	6.5 to 8.5	6.5 to 8.5	7.10 AT 25° C	1	IS 3025 (Part 11) : 1983, Reaff. 2002
5	TOTAL DISSOLVED SOLIDS	mg/l	Max 500	Max 2000	58.0	10	IS 3025 (Part 16) : 1984, Reaff. 2006
6	TOTAL HARDNESS (as CaCO ₃)	mg/l	Max 200	Max 600	29.7	5	IS 3025 (Part 21) : 2009
7	CHLORIDE (as Cl ⁻)	mg/l	Max 250	Max 1000	9.93	5	IS 3025 (Part 32) : 1988, Reaff. 2007

Remarks: This sample conforms to the requirements (acceptable limits) specified in IS 10500:2012 (Indian Standard: Drinking Water - Specification) with respect to the parameters listed above.



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	SAMPLE RECEIPT : 14-03-2024
	SAMPLE CODE : KH/24/64560/B56286
	ANALYSIS STARTED : 14-03-2024
	ANALYSIS COMPLETED : 15-03-2024

INFORMATION PROVIDED BY CUSTOMER	
SAMPLE NAME	: DRINKING WATER
SAMPLE ID	: SF

OTHER INFORMATION	
CONDITION OF SAMPLE	: RECEIVED IN GOOD CONDITION
SAMPLE SUBMITTED BY	: CUSTOMER

TEST DONE AS PER IS 10500:2012

I. BIOLOGICAL TESTING : Water				
SL NO.	PARAMETER TESTED	TEST RESULT	Requirement	TEST METHOD
1	ESCHERICHIA COLI/ THERMOTOLERANT COLIFORMS	ABSENT/100ml	ABSENT / 100ml	IS 15185 : 2016

Remarks: This sample conforms to the requirements of IS 10500:2012, RA 2018 with respect to the parameters listed above.



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INTERFIELD LABORATORIES
 HASLIT THOMAS
 Sr. ANALYST (BIOLOGY)
 16-03-2024
 AUTHORISED SIGNATORY



Mendula Menon V.
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 Principal-in-Charge
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E-Mail: info@planatearth.org

www.planatearth.org

Reg No: ER-313/09

Memorandum of Understanding

This Agreement was made and entered into on *1st June 2019* by and amongst the following two parties collectively referred to as 'Parties' and each referred to individually as 'Party'.

The Cochin College, Cochin College Road, Cochin 682002, being represented by its Principal of the FIRST PART and The NGO **PlanatEarth** which is a non-profit registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09) with its registered office at Aluva represented here by its Secretary Sooraj Abraham and President Mujeeb Mohammed of the SECOND PART.

Whereas

The Cochin College was founded in 1967 and is committed to enriching the lives of students by empowering them. The Cochin College provides holistic education that enables its students to actively participate in community life.

PlanatEarth is engaged in activities focused on environment conservation mainly in the management and recovery of resources that would otherwise be considered as waste. PlanatEarth takes up projects that are in line with the Sustainable Development Goals and connect the loop towards circular economy.



[Signature]
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Principal-in-Charge
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Mrudula Menon V.
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PlanatEarth



E-Mail: info@planatearth.org

www.planatearth.org

Reg No: ER-313/09

Responsibilities of PlanatEarth

1. To offer professional service to The Cochin College, in managing the dry waste (Used examination papers/called Paper) generated in the campus by arranging regular need-based pickups and channeling to recycling companies.
2. To guarantee confidentiality in removal of papers pertaining to academics and other sensitive documents. **Annexure II**
3. To compensate the college for the value agreed upon for the removal of recyclables, as indicated in the attached **Annexure I**, in the form of A4 size paper of a brand and GSM size mentioned by the college.
4. To record and document all such paper collected for recycling and Certify the College at the end of the academic year.
5. None of the costs needed for any projects needs to be borne in part or wholly by The Cochin College.
6. It is the responsibility of **PlanatEarth** to obtain the necessary regulatory approvals from the concerned government authorities.
7. To give awareness and training for students in solid waste Management.

Responsibilities of The Cochin College

1. To ensure that all dry waste that is to be handed over to PlanatEarth is stored free of moisture and food residue.
- 2.

Annexure I

Rates

1. Used Carton Boxes: Rs4 per kilo
2. Waste Paper: Rs1 per kilo
3. A4 size Quality Paper: Rs10 per kilo
4. Waste paper (bus tickets, torn paper, shredded paper): Removed free of cost
5. Plastic waste: Removed free of cost
6. PET Bottles: Removed Free of Cost
7. Glass Bottles: Handling charges of Rs10 per box



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Reg No: ER-313/09



Annexure II

Certificate of Confidentiality

Plan @ Earth a registered NGO that acts as a service provider to corporate organizations and companies in the matter of collection and recycling of waste paper materials understands that papers of highly confidential nature might be present in the paper thus discarded. We have been offering such services for over 14 years now.

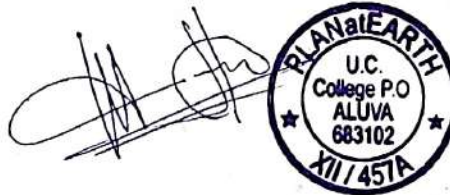
Hence Plan @ Earth undertakes to handle all the paper collected from The Cochin College, with extreme care ensuring 100 percent confidentiality of the content or utility of such matter procured from the institution.

Particular care would be taken in the case where exam sheets, mark sheets etc are handed over.

Every sheet of paper thus collected will be bundled and directly sent for processing where it will all be shredded and reduced to pulp and used for paper manufacturing itself and would reach a recycling plant with minimum handling and that too under strict packaging.

This undertaking is guaranteed under the personal risk of the undersigned, President of Plan @ Earth Mr. Mujeeb Mohammed and Secretary of Plan @ Earth Mr. Sooraj Abraham.

The MoU is valid for 1 year from the date of signing the MoU



Dr. M. Geetha
Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



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Aluva, Kerala, India-682102
0484-2203313

E-Mail: info@planatearth.org



www.planatearth.org

Reg No: ER-313/09



plan@earth™

Memorandum of Understanding

This Agreement was made and entered into on *3rd June 2020* by and amongst the following two parties collectively referred to as 'Parties' and each referred to individually as 'Party'.

The Cochin College, Cochin College Road, Cochin 682002, being represented by its Principal of the FIRST PART and The NGO **PlanatEarth** which is a non-profit registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09) with its registered office at Aluva represented here by its Secretary Sooraj Abraham and President Mujeeb Mohammed of the SECOND PART.

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- 2.

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2. Waste Paper: Rs1 per kilo
3. A4 size Quality Paper: Rs10 per kilo
4. Waste paper (bus tickets, torn paper, shredded paper): Removed free of cost
5. Plastic waste: Removed free of cost
6. PET Bottles: Removed Free of Cost
7. Glass Bottles: Handling charges of Rs10 per box



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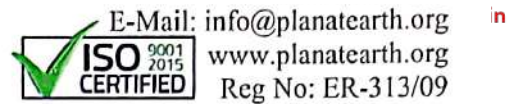
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www.planatearth.org

Reg No: ER-313/09

Annexure II

Certificate of Confidentiality

Plan @ Earth a registered NGO that acts as a service provider to corporate organizations and companies in the matter of collection and recycling of waste paper materials understands that papers of highly confidential nature might be present in the paper thus discarded. We have been offering such services for over 14 years now.

Hence Plan @ Earth undertakes to handle all the paper collected from The Cochin College, with extreme care ensuring 100 percent confidentiality of the content or utility of such matter procured from the institution.

Particular care would be taken in the case where exam sheets, mark sheets etc are handed over.

Every sheet of paper thus collected will be bundled and directly sent for processing where it will all be shredded and reduced to pulp and used for paper manufacturing itself and would reach a recycling plant with minimum handling and that too under strict packaging.

This undertaking is guaranteed under the personal risk of the undersigned, President of Plan @ Earth Mr. Mujeeb Mohammed and Secretary of Plan @ Earth Mr. Sooraj Abraham.

The MoU is valid for 1 year from the date of signing the MoU



(Handwritten signature)



(Handwritten signature)

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002



(Handwritten signature)
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



plan@earth.in



E-Mail: info@planatearth.org

www.planatearth.org

Reg No: ER-313/09

Memorandum of Understanding

This Agreement was made and entered into on 4th June 2021 by and amongst the following two parties collectively referred to as 'Parties' and each referred to individually as 'Party'.

The Cochin College, Cochin College Road, Cochin 682002, being represented by its Principal of the FIRST PART and The NGO **PlanatEarth** which is a non-profit registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09) with its registered office at Aluva represented here by its Secretary Sooraj Abraham and President Mujeeb Mohammed of the SECOND PART.

Whereas

The Cochin College was founded in 1967 and is committed to enriching the lives of students by empowering them. The Cochin College provides holistic education that enables its students to actively participate in community life.

PlanatEarth is engaged in activities focused on environment conservation mainly in the management and recovery of resources that would otherwise be considered as waste. PlanatEarth takes up projects that are in line with the Sustainable Development Goals and connect the loop towards circular economy.



Dr. M. Geetha
Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi-682 002



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



PlanatEarth



E-Mail: info@planatearth.org

www.planatearth.org

Reg No: ER-313/09

Responsibilities of PlanatEarth

1. To offer professional service to The Cochin College, in managing the dry waste (Used examination papers/called Paper) generated in the campus by arranging regular need-based pickups and channeling to recycling companies.
2. To guarantee confidentiality in removal of papers pertaining to academics and other sensitive documents. **Annexure II**
3. To compensate the college for the value agreed upon for the removal of recyclables, as indicated in the attached **Annexure I**, in the form of A4 size paper of a brand and GSM size mentioned by the college.
4. To record and document all such paper collected for recycling and Certify the College at the end of the academic year.
5. None of the costs needed for any projects needs to be borne in part or wholly by The Cochin College.
6. It is the responsibility of **Planatearth** to obtain the necessary regulatory approvals from the concerned government authorities.
7. To give awareness and training for students in solid waste Management.

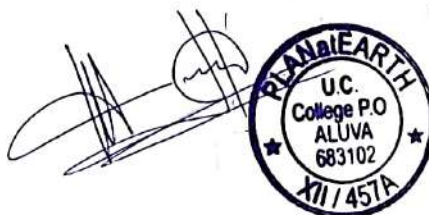
Responsibilities of The Cochin College

1. To ensure that all dry waste that is to be handed over to Planatearth is stored free of moisture and food residue.
- 2.

Annexure I

Rates

1. Used Carton Boxes: Rs4 per kilo
2. Waste Paper: Rs1 per kilo
3. A4 size Quality Paper: Rs10 per kilo
4. Waste paper (bus tickets, torn paper, shredded paper): Removed free of cost
5. Plastic waste: Removed free of cost
6. PET Bottles: Removed Free of Cost
7. Glass Bottles: Handling charges of Rs10 per box



Dr. M. Geetha
Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi-682 002



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



Plan @ Earth



E-Mail: info@planatearth.org

www.planatearth.org

Reg No: ER-313/09

Annexure II

Certificate of Confidentiality

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The MoU is valid for 1 year from the date of signing the MoU



Dr. M. Geetha
Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



www.planatearth.org in
Reg No: ER-313/09

Memorandum of Understanding

This Agreement was made and entered into on 1st July 2022 by and amongst the following two parties collectively referred to as 'Parties' and each referred to individually as 'Party'.

The Cochin College, Cochin College Road, Cochin 682002, being represented by its Principal of the FIRST PART and The NGO **PlanatEarth** which is a non-profit registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09) with its registered office at Aluva represented here by its Secretary Sooraj Abraham and President Mujeeb Mohammed of the SECOND PART.

Whereas

The Cochin College was founded in 1967 and is committed to enriching the lives of students by empowering them. The Cochin College provides holistic education that enables its students to actively participate in community life.

PlanatEarth is engaged in activities focused on environment conservation mainly in the management and recovery of resources that would otherwise be considered as waste. PlanatEarth takes up projects that are in line with the Sustainable Development Goals and connect the loop towards circular economy.



[Signature]
Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi-682 002



[Signature]
Mrudula Menon V.
Principal-in-Charge
The Cochin College



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KOCHI - 682 002

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E-Mail: info@planatearth.org

www.planatearth.org

Reg No: ER-313/09

Responsibilities of PlanatEarth

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5. None of the costs needed for any projects needs to be borne in part or wholly by The Cochin College.
6. It is the responsibility of **Planatearth** to obtain the necessary regulatory approvals from the concerned government authorities.
7. To give awareness and training for students in solid waste Management.

Responsibilities of The Cochin College

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- 2.

Annexure I

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2. Waste Paper: Rs1 per kilo
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4. Waste paper (bus tickets, torn paper, shredded paper): Removed free of cost
5. Plastic waste: Removed free of cost
6. PET Bottles: Removed Free of Cost
7. Glass Bottles: Handling charges of Rs10 per box



Dr. M. Geetha
Dr. M. Geetha
Principal-in-Charge
The Cochin College



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

E-Mail: info@planatearth.org
www.planatearth.org
Reg No: ER-313/09



Annexure II

Certificate of Confidentiality

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This undertaking is guaranteed under the personal risk of the undersigned, President of Plan @ Earth Mr. Mujeeb Mohammed and Secretary of Plan @ Earth Mr. Sooraj Abraham.

The MoU is valid for 1 year from the date of signing the MoU



Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002



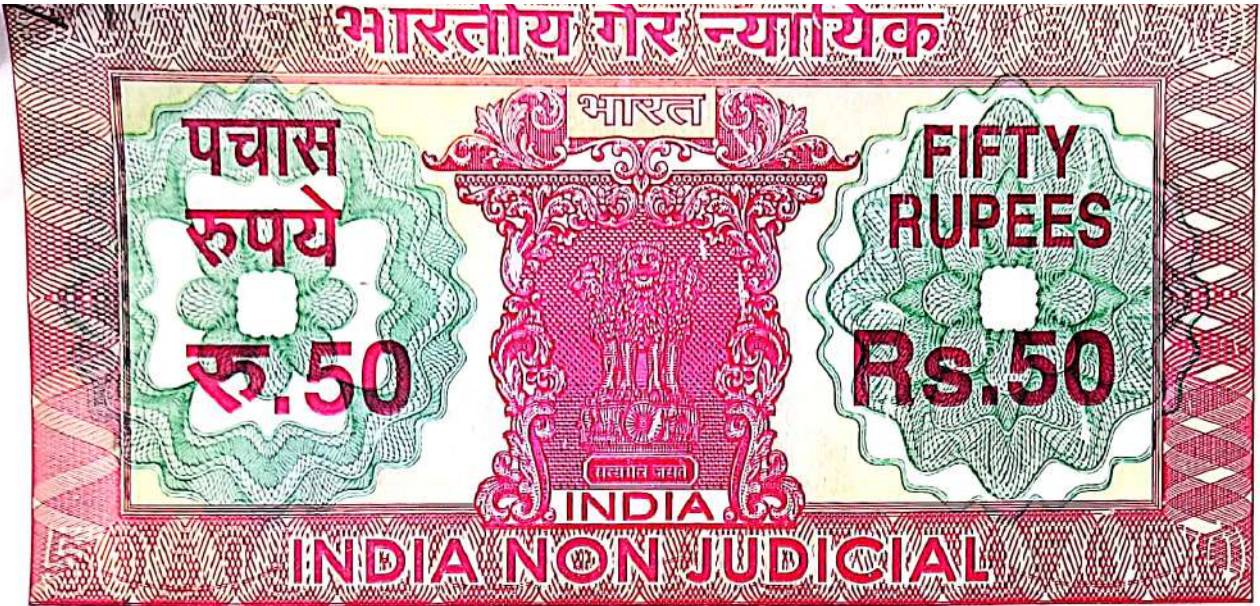
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരल KERALA

CR 055815

Memorandum of Understanding (MoU)

This Memorandum of Understanding ("MoU") is made on this 8th day of January 2024, by and between:

The Cochin College, Cochin College Road, Cochin 682002, represented by its Principal, (hereinafter referred to as the "FIRST PART");

AND

Pian@Earth, a non-profit organization registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09), with its registered office at Aluva, represented here by its Secretary, Mr. Sooraj Abraham, and President, Mr. Mujeeb Mohammed, (hereinafter referred to as the "SECOND PART").



[Signature]

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi-682002

40977 Date 20/12/23
value Rs 50/-
Sold to The Principal, The Cochin College
To be Link With K. SREEHIVASAN
STAI P VENDOR, MATTANCHERRY



[Signature]
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരल KERALA

CR 055817

Preamble

Whereas the FIRST PART is an educational institution committed to promoting academic excellence, research, and community engagement, and;

Whereas the SECOND PART is a charitable organization dedicated to environmental conservation, research, and sustainable development;

Both Parties recognize the importance of collaborative efforts in research and consultancy, particularly in areas that impact the environment and community well-being.



[Handwritten signature]



[Handwritten signature]

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002

40979 20/12/23
No. Date

value Rs 50
Sold to *The Principal The Cochin College*
To be Link With *Kochi 2*

[Handwritten signature]
K. SREEHIVASAN
STA, P VENDOR, MATTANCHERRY



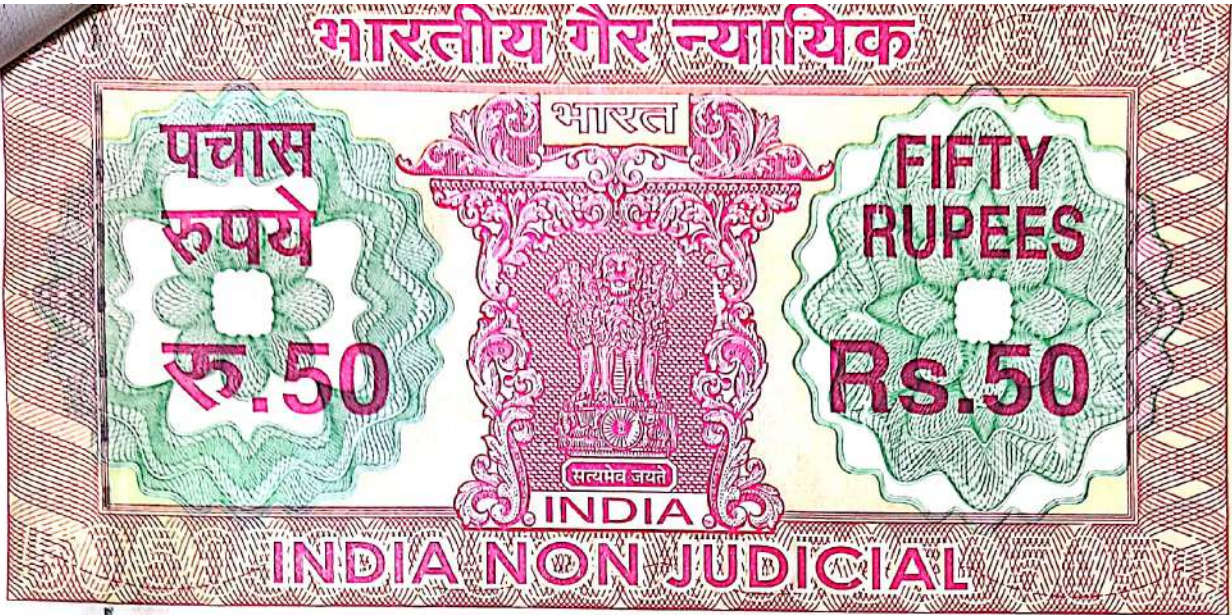
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Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരल KERALA

CR 055818

Purpose

The purpose of this MoU is to establish a framework of collaboration between the FIRST PART and the SECOND PART for the consultancy and research support for the project titled:

"Effect of Water Hyacinth Infestation on the Physicochemical Parameters of Canal Water in Karumalloor, Aluva, Kerala, India."

Scope of Collaboration

1. Consultancy Services:

- o The FIRST PART will provide consultancy services to the SECOND PART on scientific methodologies, data collection, and analysis related to the research project.
- o The SECOND PART will facilitate access to the study site, provide logistical support, and collaborate in the dissemination of findings.

No. 980 Date 20/12/23
 value Rs. 50
 Sold to The Principal, The Cochin College
 To be Link & With Kochi 2
K. SREENIVASAN
 STA, P VENDOR, MATTANCHERRY



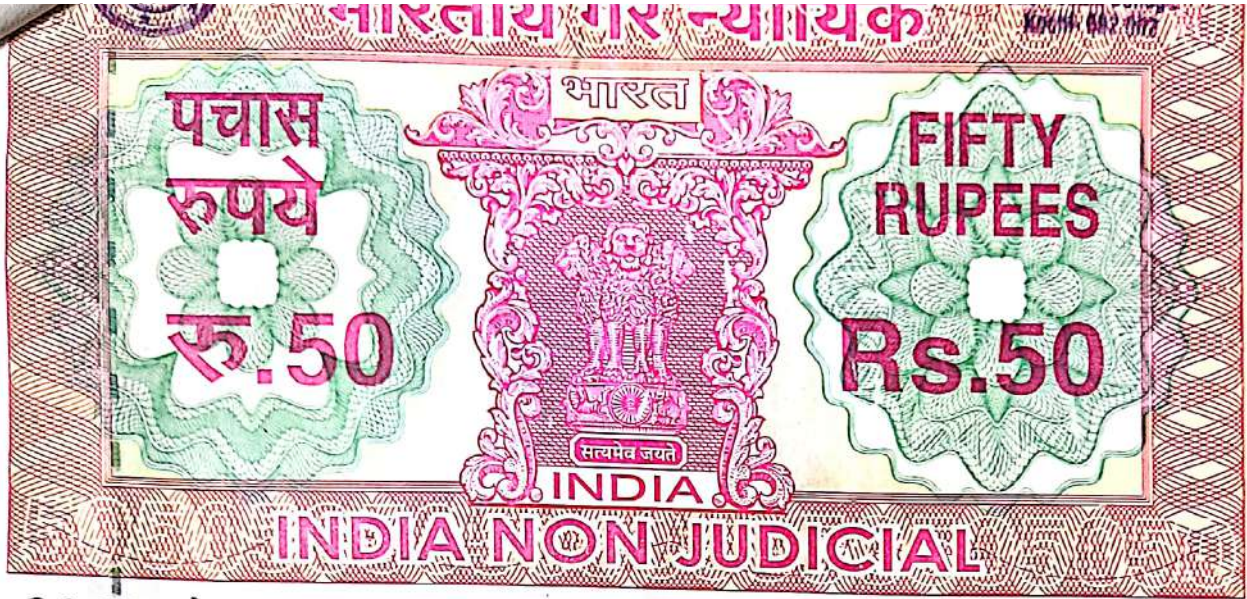
Mendula Menon
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരള KERALA

CR 055819

2. Research Support:

- o The **FIRST PART** will support the research activities by involving faculty members, research scholars, and students in the project.
- o The **SECOND PART** will provide necessary financial, technical, and administrative support for the successful completion of the research.

3. Data Sharing and Intellectual Property:

- o Both Parties agree to share data, research findings, and any other relevant information generated during the project.
- o The intellectual property rights for the research outputs will be jointly owned by both Parties.



[Handwritten Signature]

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi-682 002

No 98/Date 20/12/23

value Rs 50/-
Sold to The Principal The Cochin College

To be Link Free Kochi 2

K. SREENIVASAN
STA, P VENDOR, MATTANCHERRY



[Handwritten Signature]
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

4. Duration:

- o This MoU will remain in effect for a period of one year from the date of signing, and may be extended by mutual agreement.

5. Confidentiality:

- o Both Parties agree to maintain the confidentiality of any proprietary or sensitive information shared during the course of this collaboration.

6. Termination:

- o Either Party may terminate this MoU with a 30-day written notice. Upon termination, both Parties shall ensure the completion of ongoing tasks or agree on an appropriate course of action.

General Provisions

- **Amendments:** Any amendments to this MoU must be made in writing and signed by authorized representatives of both Parties.
- **Dispute Resolution:** Any disputes arising from this MoU shall be resolved through mutual discussion. If unresolved, the matter may be referred to arbitration as per the applicable laws.
- **Governing Law:** This MoU shall be governed by and construed in accordance with the laws of India.

Signatories

For The Cochin College

Name: Dr M Geetha

Designation: Principal

Date: 8 January 2024

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002



For Plan@Earth

Name: Mr. Mujeeb Mohammed

Designation: President

Date: 8 January 2024

Witnesses:

1. Dr. Vineth Kumar 8/1/24,

(Signature, Name, Date)

2. Dr. Smitha N. R. 8/1/24.

(Signature, Name, Date)

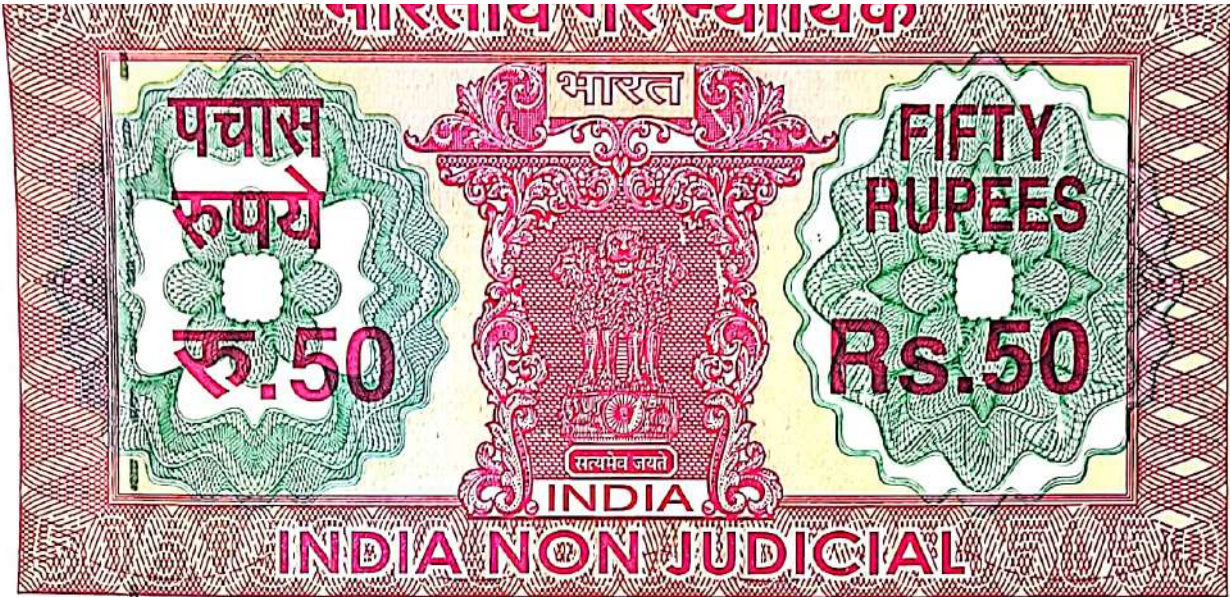




THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരल KERALA

CR 055811

Memorandum of Understanding (MoU)

This Memorandum of Understanding ("MoU") is made on this 1st day of February, 2024, by and between:

The **Cochin College**, Cochin College Road, Cochin 682002, represented by its Principal, (hereinafter referred to as the "FIRST PART");

AND

Plan@Earth, a non-profit organization registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09), with its registered office at Aluva, represented here by its Secretary, Mr. Sooraj Abraham, and President, Mr. Mujeeb Mohammed, (hereinafter referred to as the "SECOND PART").

40973 20/12/23

DATE

Sold to The Principal The Cochin College

To be Link Office

K. SREEHIVASAN

STAI P VENDOR, MATTANCHERRY

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi-682 002

19 DEC 2023



Mendula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരള KERALA

CR 055812

Preamble

Whereas the FIRST PART is an educational institution committed to promoting academic excellence, research, and community engagement, and;

Whereas the SECOND PART is a charitable organization dedicated to environmental conservation, research, and sustainable development;

Both Parties recognize the importance of collaborative efforts in training and educating students on environmentally sustainable practices.

40979
 value Rs 50/-
 Sold to... *The Principal of The Cochin College*
 To be Linked With... *Kochi 2*
R. SREENIVASAN
 STA, P VENDOR, MATTANCHERRY

PLAN EARTH
 U.C.
 College P.O.
 ALLUVA
 683102

[Signature]
 Dr. M. Geetha
 Principal-in-Charge
 The Cochin College
 Kochi- 682 002

SUP TREASURY
 19 DEC 2023



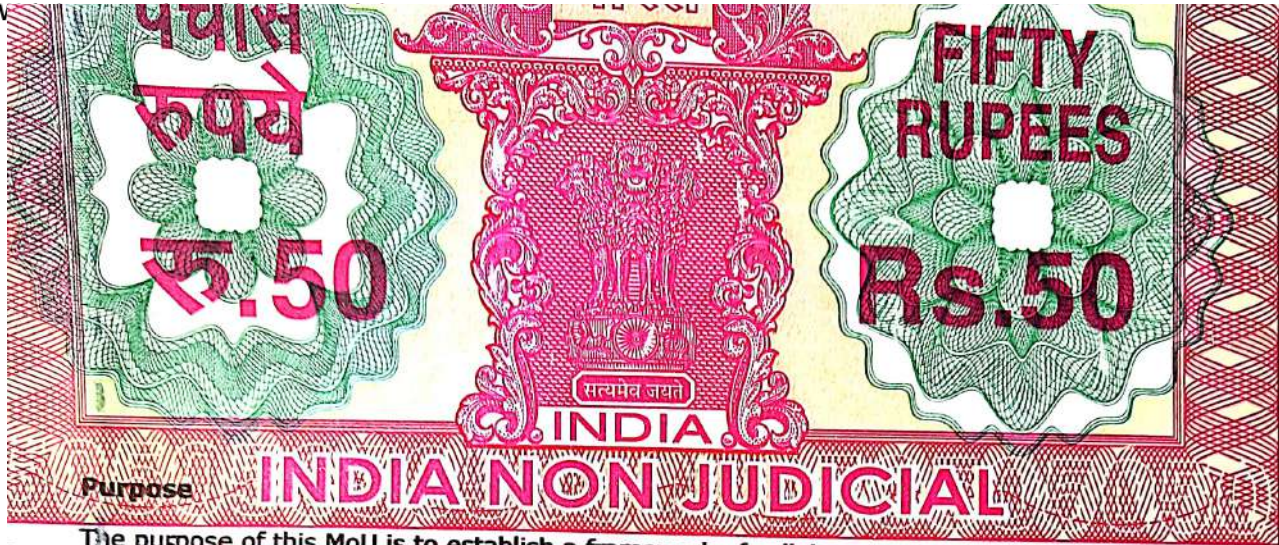
Mendula Menon
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



The purpose of this MoU is to establish a framework of collaboration between the FIRST PART and the SECOND PART for training students in preparing Bioenzyme from fruit waste as part of the ECHO 2023 project titled:

"ECOWASH - A Comprehensive Study on Developing Bioenzyme, its Performance Testing and Social Influence."

Scope of Collaboration

1. Training and Education:

- o The FIRST PART will facilitate the participation of its students in training sessions organized by the SECOND PART on the preparation of Bioenzyme from fruit waste.
- o The SECOND PART will provide expert trainers, materials, and resources necessary for the effective training of students.



[Handwritten signature]



[Handwritten signature]
Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002

40975 20/12/23
Date.....

value is 500/-
Sold to The Principal, The Cochin College
Kochi 2

To be Link / Witn...
[Handwritten signature]
K. SREEVIVASAN
STAI, P VENDOR, MATTANCHERRY



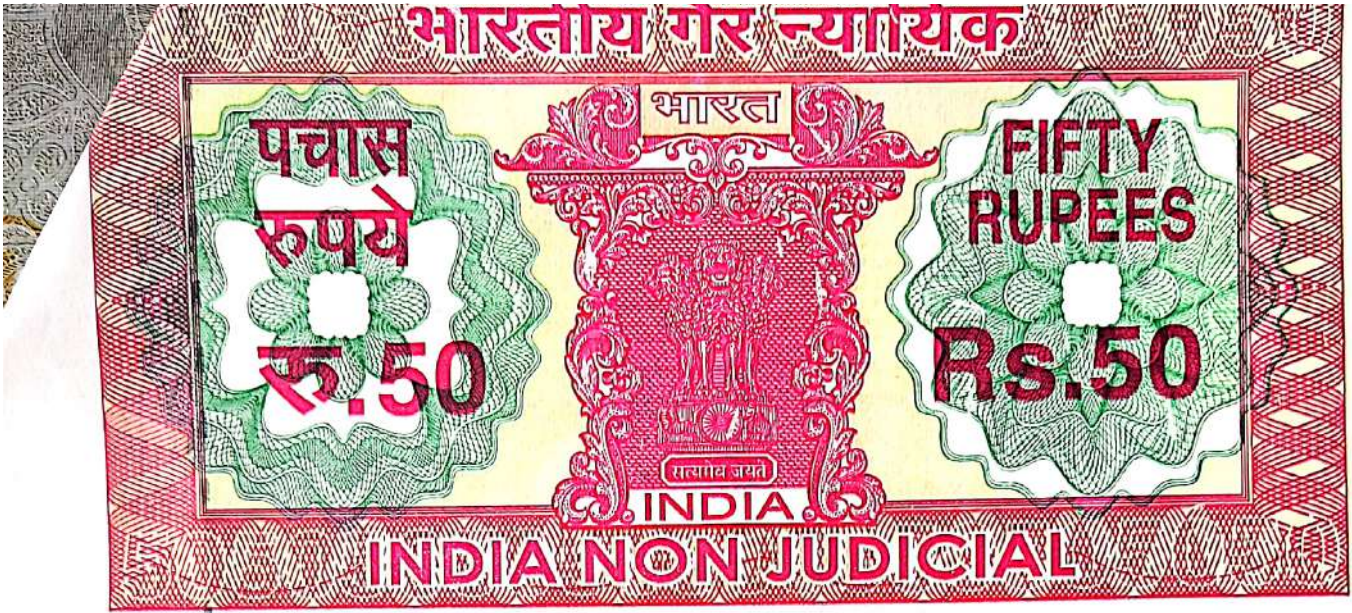
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Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരള KERALA

CR 055814

2. Project Support:

- o The FIRST PART will provide logistical and administrative support to ensure the smooth execution of the project activities.
- o The SECOND PART will guide the students through the process of bioenzyme preparation, performance testing, and assessing the social influence of the project outcomes.

3. Data Sharing and Intellectual Property:

- o Both Parties agree to share data, research findings, and any other relevant information generated during the project.
- o The intellectual property rights for the training materials and research outputs will be jointly owned by both Parties.



[Handwritten signature]



[Handwritten signature]

Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002

No. 976 Date 20/12/23

value Rs 500
Sold to... The Principal, The Cochin College

To be Link With... K. SREENIVASAN

STA: P VENDOR, MATTANCHERRY



[Handwritten signature]
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

4. Duration:

- o This MoU will remain in effect for a period of one year from the date of signing, and may be extended by mutual agreement.

5. Confidentiality:

- o Both Parties agree to maintain the confidentiality of any proprietary or sensitive information shared during the course of this collaboration.

6. Termination:

- o Either Party may terminate this MoU with a 30-day written notice. Upon termination, both Parties shall ensure the completion of ongoing tasks or agree on an appropriate course of action.

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- **Governing Law:** This MoU shall be governed by and construed in accordance with the laws of India.

Signatories

For The Cochin College

Name: Dr M Geetha
 Designation: Principal
 Date: 1 February 2024

Dr. M. Geetha
 Principal-in-Charge
 The Cochin College
 Kochi- 682 002



For Plan@Earth

Name: Mr. Mujeeb Mohammed
 Designation: President
 Date: 1 February 2024



Witnesses:

1. Dr. Smitha NR 1/2/2024

(Signature, Name, Date)

2. Dr. Vineetha Kuma 1/2/24



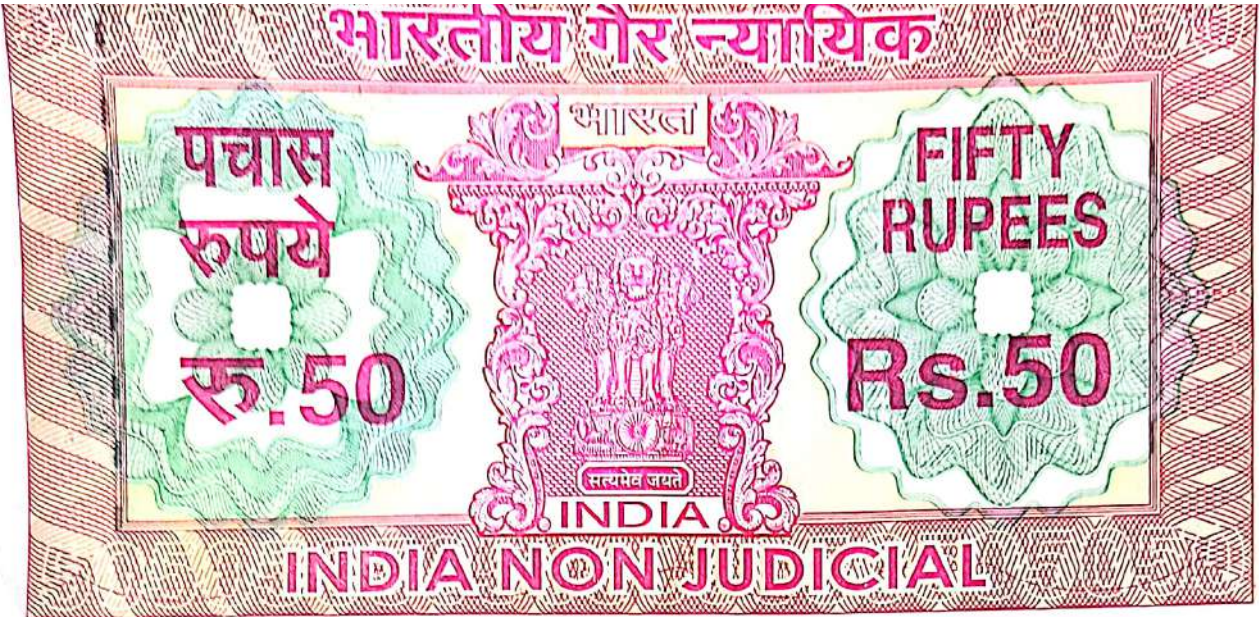
Mendula Menon
 Mrudula Menon V.
 Principal-in-Charge
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കേരളം കേരल KERALA

CR 055857

Memorandum of Understanding

This Agreement was made and entered into on 12th February 2024 by and amongst the following two parties collectively referred to as 'Parties' and each referred to individually as 'Party'.

The Cochin College, Cochin College Road, Cochin 682002, being represented by its Principal of the FIRST PART and The NGO PlanatEarth which is a non-profit registered as a charitable society under the Travancore Cochin Literary, Scientific and Charitable Societies Act of 1951 (Registration Number: ER-313/09) with its registered office at Aluva represented here by its Secretary Sooraj Abraham and President Mujeeb Mohammed of the SECOND PART.

[Handwritten Signature]

41021 20/12/23
 Date.....



value Rs 50/-
 Sold to..... The Principal The Cochin College
 To be Link | Wtn..... Kochi 2

[Handwritten Signature]
 K. SREETHIVASAN
 STA: P VENDOR, MATTANCHERRY

[Handwritten Signature]
 Dr. M. Geetha
 Principal-in-Charge
 The Cochin College
 Kochi 682 002



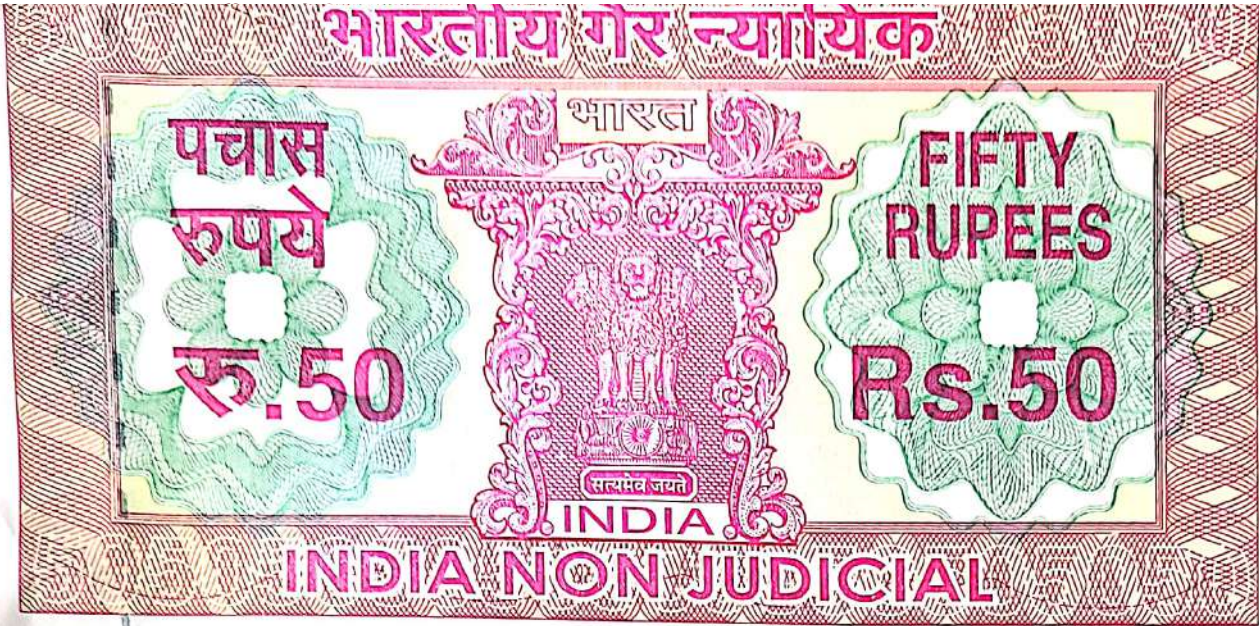
[Handwritten Signature]
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



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KOCHI - 682 002

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കേരളം കേരള KERALA

CR 055858

Whereas

The Cochin College, was founded in 1967 and is committed to enriching the lives of students by empowering them. The Cochin College provides holistic education that enables its students to actively participate in community life.

PlanatEarth is engaged in activities focused on environment conservation mainly in the management and recovery of resources that would otherwise be considered as waste. PlanatEarth takes up projects that are in line with the Sustainable Development Goals and connect the loop towards circular economy.



41022 Date 20/12/23

To be Link With The Principal The Cochin College

K. SREEHIVASAN STA. P VENDOR, MATTANCHERRY

Dr. M. Geetha Principal-in-Charge The Cochin College Kochi-682 002



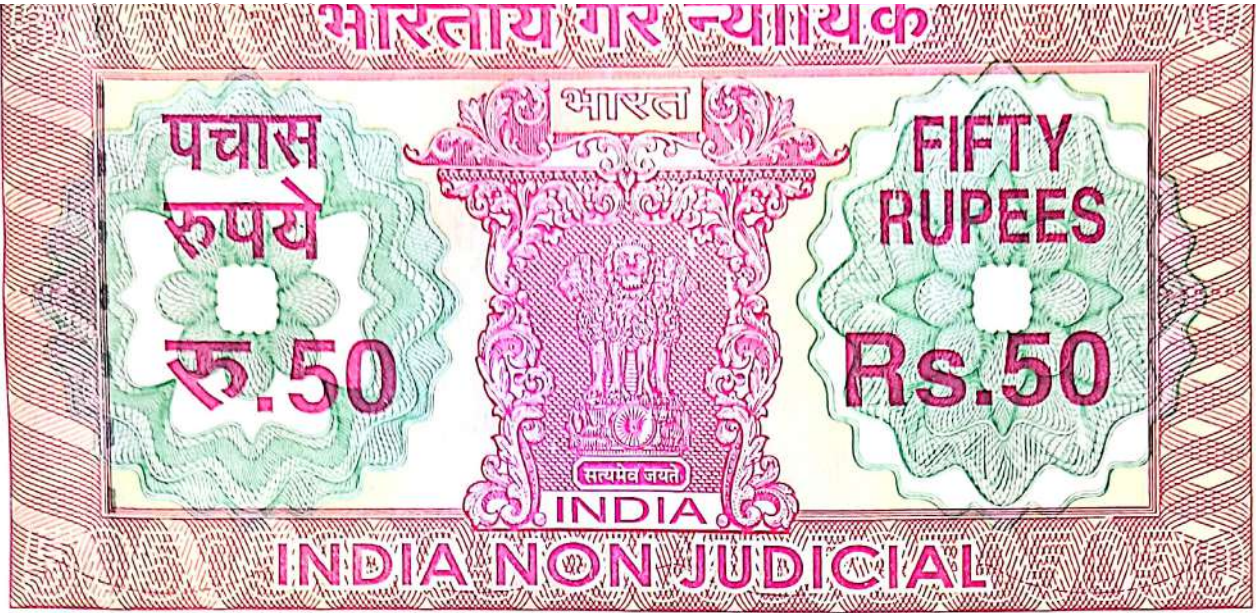
Mendula Menon V. Principal-in-Charge The Cochin College



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(Affiliated to Mahatma Gandhi University and Accredited by NAAC)



കേരളം കേരള KERALA

CR 055859

Responsibilities of PlanatEarth

1. To offer professional service to The Cochin College, in managing the dry waste (Used examination papers/called Paper) generated in the campus by arranging regular need-based pickups and channeling to recycling companies.
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4. To record and document all such paper collected for recycling and Certify the College at the end of the academic year.
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6. It is the responsibility of **Planatearth** to obtain the necessary regulatory approvals from the concerned government authorities.
7. To give awareness and training for students in solid waste Management.

41023 20/12/23
 No. Date
 value Rs 50/-
 The Principal, The Cochin College
 Kochi - 682 002
 K. SREENIVASAN
 STAFF VENDOR, MATTANCHERRY

U.C. Cochin P.O. ALLVA 682102

SUE TREASURER
 Dr. M. Geetha
 Principal-in-Charge
 The Cochin College
 Kochi-682002



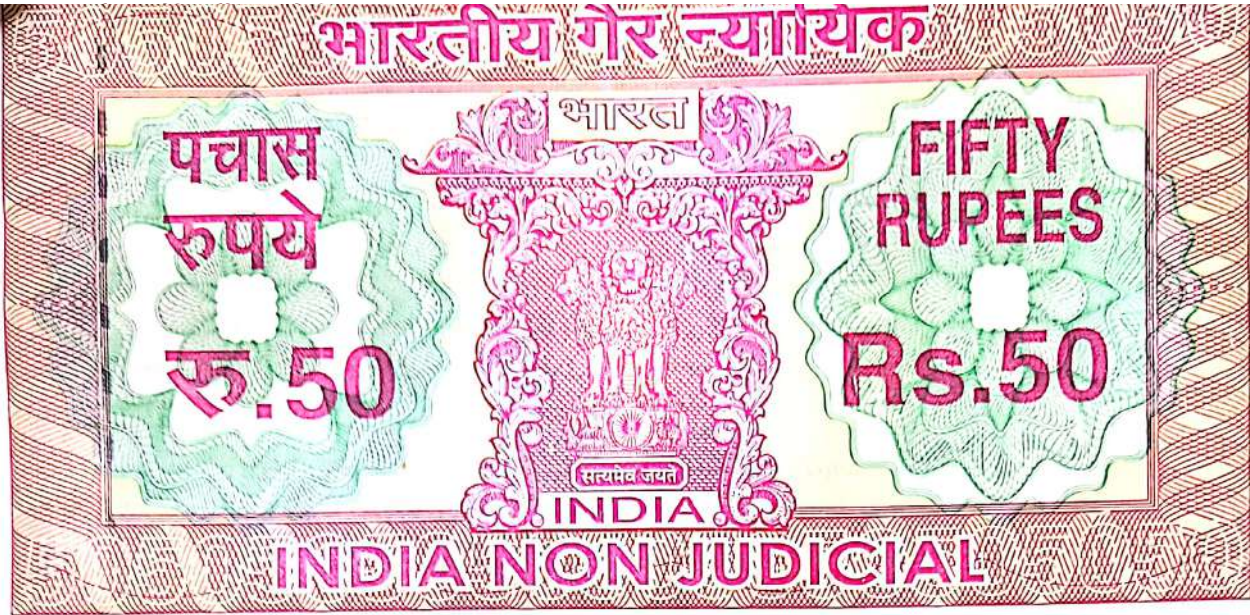
Mendula Menon V.
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

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കേരളം കേരल KERALA

CR 055862

Responsibilities of The Cochin College

1. To ensure that all dry waste that is to handed over to Planearth is stored free of moisture and food residue.

Annexure I

Rates

1. Used Carton Boxes: Rs4 per kilo
2. Waste Paper: Rs1 per kilo
3. A4 size Quality Paper: Rs10 per kilo
4. Waste paper (bus tickets, torn paper, shredded paper): Removed free of cost
5. Plastic waste: Removed free of cost
6. PET Bottles: Removed Free of Cost
7. Glass Bottles: Handling charges of Rs10 per box.

41026 20/12/23
 Date.....
 50/-
 The Principal, The Cochin College
 Kochi
 To be Link with
 K. SREEVIVASAN
 ST41 P VENDOR, MATTANCHERRY





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Annexure II

Certificate of Confidentiality

Plan @ Earth a registered NGO that acts as a service provider to corporate organizations and companies in the matter of collection and recycling of waste paper materials understands that papers of highly confidential nature might be present in the paper thus discarded. We have been offering such services for over 14 years now.

Hence Plan @ Earth undertakes to handle all the paper collected from The Cochin College, with extreme care ensuring 100 percent confidentiality of the content or utility of such matter procured from the institution.

Particular care would be taken in the case where exam sheets, mark sheets etc are handed over.

Every sheet of paper thus collected will be bundled and directly sent for processing where it will all be shredded and reduced to pulp and used for paper manufacturing itself and would reach a recycling plant with minimum handling and that too under strict packaging.

This undertaking is guaranteed under the personal risk of the undersigned, President of Plan @ Earth Mr. Mujeeb Mohammed and Secretary of Plan @ Earth Mr. Sooraj Abraham.

The MoU is valid from 12 February 2024 to 11 February 2025



Dr. M. Geetha
Principal-in-Charge
The Cochin College
Kochi- 682 002





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The Cochin College [ANTI NARCOTIC CLUB]

Policy Document

1. Introduction

1-6-2022

This policy document outlines the guidelines and regulations for Anti Narcotic Cell at The Cochin College. It serves as a reference for club members, officers, and advisors to ensure the smooth functioning and compliance of the club with the policies and procedures of the college.

2. Purpose and Objectives

2.1 Purpose

The Anti Narcotic Cell was established in this institution in the year 2017. It is a specialized committee that works towards creating awareness and combating drug abuse and illicit drug trafficking in campus and among the students. Its main purpose is to promote a drug-free environment, protect students from the adverse effects of drug use, and give necessary aid to those who are struggling with drug-related issues. The cell function with the support of teachers, students, parents and the entire college community.

2.2 Objectives

The objectives of the anti-narcotic cell include:

- To ensure a drug free campus
- To engage the students in anti- narcotic activities
- Support the national anti-drug campaign
- To enable the students to be goal oriented and capable of protecting oneself and others from drugs
- **Awareness and Prevention:** The cell aims to educate students about the negative aspect of drug abuse and the potential consequences it can have on their physical and mental health, academic performance, and future prospects. It conducts workshops,





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seminars, competitions and awareness campaigns to spread information about drug abuse and its harmful effects.

- **Reporting and Intervention:** The anti-narcotic cell encourages the college community to report any suspicious drug-related activities on the campus. It collaborates with law enforcement agencies such as the Excise department to take appropriate action against drug trafficking and related criminal activities.
- **Rehabilitation and Referral:** If a student is found to be struggling with drug abuse or addiction, the cell may refer them to professional rehabilitation centres or support groups.
- **Policy and Regulation:** The cell may work with college authorities and administrators to develop and implement drug prevention policies, such as random drug testing, and ensure that disciplinary actions are taken against those who violate these policies.

The overall aim of the anti-narcotic cell is

- To ensure a drug free campus
- To engage the students in anti- narcotic activities
- Support the national anti-drug campaign
- To enable the students to be goal oriented and capable of protecting oneself and others from drugs

3. Activities

- The anti narcotics cell in association with the Excise department conducts awareness classes on issues like ‘adverse side of narcotics, drug addiction, law system and related topics.
- Ensured no sale of tobacco/narcotic products inside the premises
- Conducting Anti-drug rallies
- Organising poster presentation competition on the negative effects of narcotics.
- Inspection of the college campus and the premises by the members of the anti narcotics cell





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4. Club Leadership and Governance

4.1 Club Officers

The Anti-narcotic Cell consists of a Convenor and members.

4.2 Advisor

The Convenor is selected from senior faculty members. Members are selected from the teaching faculty .

4.3 Meetings

Meeting is conducted in the beginning of the academic year to chalk out the action plan for the year. Again, before the inauguration of yearly activities to discuss and prepare the programme schedule.

Amendments to the Policy Document

The Policy document is reviewed and amended periodically after the suggestions and discussions between the club members.

Acknowledgment and Agreement

We, the members of the (club/committee), acknowledge that we have read and understood the policy document and agree to abide by the policies and guidelines outlined within.

Name and Signature of Club/Committee members

1. Dr. Zafna Rasheed - Convenor
2. Mr. Dominic Joseph
3. Smt. Mrudula V Menon
4. Dr. Uma S
5. Dr. Anupama R
6. Mr. Vijayakumar





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email: email@thecochincollege.edu.in

Standard Operating Procedures (SOP) for Chemistry Laboratory The Cochin College.

Purpose

This SOP provides standard operating procedures for handling chemicals and apparatus in the Chemistry Department laboratory. It supplements routine safety precautions to ensure a safe and efficient working environment.

1. Responsibilities of Students

- Understand Instructions:** Ensure you fully comprehend all instructions before beginning any laboratory work.
- Authorization and Supervision:** Do not perform unauthorized experiments or work alone in the laboratory.
- Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a laboratory coat or apron. Legs must be completely covered below the knee by clothing.
- Hair and Clothing:** Secure long hair and loose clothing while in the laboratory.
- Footwear:** Open-toed shoes, backless shoes, slingbacks, clogs, and sandals are prohibited.
- Safety Equipment:** Know the location and proper use of fire extinguishers, fire blankets, and first aid kits.
- Chemical Handling:** Carefully read labels on reagent bottles before handling any chemicals.
- Prohibited Activities:** Eating, smoking, and drinking are strictly forbidden in the laboratory.
- Storage:** Do not store food in laboratory refrigerators; they are for chemicals only.
- Fume Hoods:** Use fume hoods or exhaust fans when working with toxic or irritating vapors.
- Glassware Handling:** Do not force glass tubing through corks or rubber stoppers without proper lubrication.
- Test Tubes:** Never direct the open end of a test tube toward yourself or others.
- Acid Handling:** Always add acid to water, not water to acid, to avoid violent reactions.
- Burner Safety:** Learn the proper procedure for igniting and operating a laboratory burner. Extinguish the flame when not in use, and ensure flammable reagents are removed before lighting the burner.
- Weighing Chemicals:** Always use a proper container when weighing chemicals. Never pour chemicals directly over the balance.
- Unused Chemicals:** Do not return unused chemicals to their original containers unless instructed by the teacher.
- Reagent Containers:** Securely replace lids, caps, and stoppers after using reagents.
- Spatula Use:** Clean spatulas before and after inserting them into reagent bottles.





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19. **Accidents:** Immediately report any accident or injury, however minor, to your instructor.
20. **Workspace Management:** Keep your workspace clear of non-essential items to prevent interference with your experiments.
21. **Personal Belongings:** Store personal items on shelves upon entering the laboratory.
22. **Spill Management:** Clean up spills immediately with assistance from the Laboratory Assistant.
23. **End of Lab Protocol:** Before leaving, clean and dry your workspace, and ensure all gas, water, vacuum, and air valves are turned off.
24. **Hygiene:** Wash your hands thoroughly before leaving the laboratory.

2. Responsibilities of Teachers

1. **SOP Awareness:** Ensure students have read and understood the SOP.
2. **Chemical Knowledge:** Make sure students are aware of the chemical characteristics through Material Safety Data Sheets (MSDS) and understand safe handling procedures.
3. **Safety Awareness:** Teachers must also be aware of the safe handling procedures for each chemical used in the laboratory.
4. **Safety Norms:** Ensure students do not violate safety norms.

3. Responsibilities of Laboratory Staff

1. **Lab Maintenance:** Ensure that the assigned work is completed and the laboratory is properly organized.
2. **Safety Responsibility:** Be vigilant regarding the safety of students and colleagues.
3. **Alertness:** Maintain constant alertness while in the laboratory.
4. **Chemical Handling:** Safely handle all chemicals.
5. **Understanding Symbols:** Be familiar with the meanings of chemical symbols on bottles.
6. **Chemical Knowledge:** Understand the nature of each chemical used in the laboratory and store them accordingly.
7. **Hazardous Chemical Storage:** Store all hazardous chemicals separately to prevent dangerous reactions, explosions, or fires.
8. **Monitoring:** Observe how students and colleagues handle chemicals, and take appropriate action if safety norms are violated.
9. **Spill Management:** Clean up chemical spills immediately with care.
10. **Emergency Evacuation:** Evacuate students to safety in case of emergency.
11. **Chemical Handling:** Do not touch chemicals with bare hands; always use a spatula or dropper.
12. **Chemical Conservation:** Avoid wasting chemicals, and reuse leftover solutions whenever possible.





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4. Housekeeping

1. **Cleanliness:** The laboratory must be kept neat and clean at all times.
2. **Organization:** Apparatus and chemicals should be stored in their designated places.
3. **Workspace:** Keep the working bench free from unnecessary items, such as paper, chemicals, and waste.
4. **Spill Response:** Keep a cleaning duster handy for immediate cleanup of spills.
5. **Pathways:** Ensure that no stools or other obstacles block the pathways between working tables.
6. **Exit Access:** Keep all paths to exits clear and unobstructed.
7. **Labeling:** Label all chemical containers for easy identification.
8. **Glassware:** Handle broken glassware with care.
9. **Apparatus Cleaning:** Clean all apparatus before storing them in lockers or returning them to the counter.
10. **End of Lab Cleanup:** Thoroughly clean your work area before leaving the lab.
11. **Return Equipment:** Return boss clamps, wire gauze, tripod stands, and other equipment to their designated places.
12. **Chemical Storage:** Return bottles of chemicals to their designated places.
13. **Solution Management:** Return unused (clean) solutions to the stock from which they were taken.

5. Accident and Injury

A. Prevention

1. **Alertness:** Stay alert while working in the laboratory.
2. **Test Tube Safety:** Do not point test tubes containing boiling liquid toward others.
3. **Chemical Handling:** Always handle chemicals with appropriate tools like a spatula or dropper.
4. **Skin and Clothing:** Prevent chemicals from contacting your skin or clothing.
5. **Chemical Inhalation and Ingestion:** Do not inhale or taste chemicals.
6. **Chemical Reactions:** Do not mix chemicals without understanding their reactions.

B. Routes of Exposure to Chemicals

1. **Inhalation**
2. **Ingestion**
3. **Absorption**

C. First Aid on Overexposure





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Chemicals in the Eyes

- Do not rub the eyes.
- Hold eyelids open and flush with water for 15 minutes.
- Avoid contaminating the other eye.
- Seek additional medical attention.

Chemicals on the Skin

- Flush the affected area with lukewarm water for 15 minutes.
- Remove clothing and jewelry from the burn area.
- Seek additional medical attention.

Chemical Inhalation

- Move the victim to fresh air.
- Seek immediate medical attention.

Chemical Ingestion

- Do not induce vomiting unless instructed by Poison Control.
- Seek immediate medical attention.

SOP for Waste Disposal: Non-Hazardous, Acid and Base Chemical Management

1. General Guidelines

- **Waste Segregation:** Separate waste by type (non-hazardous, acidic, basic). Do not mix different types of waste unless instructed.
- **Labelling:** Clearly label waste containers with the type of waste, chemical name, concentration, and date of collection.

2. Non-Hazardous Chemical Waste Management

- **Identification:** Confirm waste is non-hazardous via SDS or lab supervisor.
- **Collection:** Use designated containers for liquid and solid non-hazardous waste.
- **Disposal:**
 - **Liquids:** If permitted, dilute with water and dispose of down the drain, flushing with ample water.
 - **Solids:** Dispose of in regular trash if no environmental or health risks are posed.

3. Acid Waste Management

- **Collection:** Use acid-resistant containers for acidic waste.
- **Neutralization (if required):** Neutralize acids by adding to cold water, then slowly add a neutralizing agent until neutral pH is achieved.





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- **Disposal:** Neutralized waste may be disposed of down the drain with water if allowed. Non-neutralized waste must be stored for professional disposal.

4. Basic Waste Management

- **Collection:** Use containers resistant to caustic substances for basic waste.
- **Neutralization (if required):** Carefully neutralize bases using a weak acid, and then dispose of according to regulations.
- **Disposal:** Neutralized waste may be disposed of down the drain if permitted. Non-neutralized waste should be stored for professional disposal.

5. Handling and Safety Precautions

- **PPE:** Wear appropriate PPE, including lab coats, gloves, and safety goggles.
- **Ventilation:** Ensure good ventilation when handling waste; use fume hoods if necessary.
- **Spill Management:** Follow spill response procedures, using appropriate neutralizing agents and absorbent materials for cleanup.

Annexure: Material Safety Data Sheet (MSDS)

Definition:

Prepared by chemical manufacturers or importers, an MSDS describes:

- **Physical Hazards:** Such as fire and explosion risks.
- **Health Hazards:** Including signs of exposure.
- **Routes of Exposure:** How chemicals may enter the body.
- **Handling Precautions:** Guidelines for safe use.
- **Emergency Procedures:** First aid measures and emergency response.





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Timestamp	Department Name	Total number of Lights in the Department (Specify Class Room no + Staff Room) / Office	Total number of Fans in the Department (Specify Class Room no + Staff Room) / Office	Total number of Coolers in the Department (Specify Class Room no + Staff Room) / Office
8-14-2024 8:22:09	Department of Business Administration (SF)	14	19	Nil
8-14-2024 8:45:55	Department of English	21	24	Nil
8-14-2024 8:54:35	Library (SF)	Two	4	0
8-14-2024 9:00:24	Department of Mathematics (SF)	15	22	0
8-14-2024 9:16:34	Post Graduate Department of Chemistry (SF)	26	13	0
8-14-2024 9:17:48	Department of Computer Application (SF)	Dept-2, class rooms- 10, total 12	Dept-4, class-14, total 18	0
8-14-2024 9:18:01	Department of Languages	Staff room - Two / Room no : 17-- Two/ Room no : 37 - Two	Staff room - Two / Room no :	Nil
8-14-2024 9:23:44	Post Graduate Department of Zoology (SF)	37	16	Nil
8-14-2024 9:39:24	Department of Commerce (SF)	27	40	0
8-14-2024 10:06:46	Department of Physics	41	41	0
8-14-2024 10:35:07	Academic Head (SF)	3	2	Nil
8-14-2024 10:38:26	Board Room (SF)	2	4	Nil
8-14-2024 10:43:07	Department of Languages	2 Tube Lights(in Second Language Classroom), 1 Tube Light (in Department)	1 Fan (in Department), 4 Fans (in Second Language Classroom)	Nil
8-14-2024 10:44:49	Office Room (SF)	two tube light room no. 21 SF	Two fan room no. 21 SF	Nil
8-14-2024 10:50:19	System Analysts (SF)	1 Room no: 35	1 Room no 35	Nil
8-14-2024 10:57:57	Department of Chemistry	Staff room-4, Room no 24-2, Room no 25- 2, Room no 36- 2, Chem lab- 16	Staff Room-5, Room no 24- 2	Nil
8-14-2024 13:23:08	Library	44	15	Nil





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8-14-2024 14:56:19	Department of Commerce	Room No: 3- 2, Room No: 4- 2, Room No: 5- 2, Room No: 7-2(Research Room) ,Room No: 8 - 5 (staff room), Room No: 9 - 4,Room No: 11- 4 (1 not working),Room No: 13- 2, Room No: 14-2, Room No: 15-2, Room no: 21-2)	Total Fans: 32 (Room No:2 - 2	Nil
8-15-2024 8:40:58	Department of Botany	33 NUMBERS. ROOM NO. 67: - 14, STAFF ROOM (54):- 6, INSTRUMENTATION ROOM : 05, BOTANY CLASS ROOM 1:- 02, BOTANY CLASS ROOM 2:- 02, BOTANY CLASS ROOM 3:- 02, CORRIDOR:- 02	20 NUMBERS. ROOM NO. 67	Nil
8-15-2024 19:10:04	Department of Zoology		42	14 Nil
	Chemistry Lab (ground Floor)		8	10 Nil





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Total number of Filters in the Department (Specify Class Room no + Staff Room) / Office	Total number of Lab Equipment's in Department	Total number of Refrigerators in the Department (Class Room + Staff Room) / Office Star Rating	Total number of Air Conditioner (AC) in the Department (Specify Class Room no + Staff Room) / Office and Star rating of each.
Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil
0	0	0	0
0	0	0	0
0	27	1	0
0	1 PC and 1 projector in dept. Lab- 50 pc's	0	0
Nil	Nil	Nil	Nil
1	44	2	Nil
0	One Computer in Department, & 50 computer in lab (common)	0	0
0	79	1	1-3Star
Nil		Nil	Nil
Nil		Nil	Nil
Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil
Nil	20	Chem lab -1	Nil
Nil	Nil	Nil	Nil





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Nil	Nil	Nil	Nil
Nil		10 02 NUMBERS	Nil
Nil		14 1 Star rating 3	Nil
Nil	Nil	Nil	Nil





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(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)						
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912
Consumer#	1155629013043		Reg. Mob# 940xxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1	
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF			
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488			
Bill#	5562230914142		Bill Area	M01/1	DTR	COCHIN COLLEGE
Billing Period	9/2023[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30
Bill Date	14-09-2023		Due Date	24-09-2023	DC Date	09-10-2023
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00
Meter#	GPIAPR180004339810		Average consumption(Monthly)			
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE		
Meter Type/Owner	TOD/KSEB		KWH	1340		
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
10-08-2023	10-08-2023	Working		14-09-2023	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	928.00	1023.00	20	1900
Remarks :			Bill Details			[INR] Amount(Rs.)
Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)			a) Fixed Charges	Fixed Charge[FC]	8500.00	
Last Paid Amount - Rs.21942.00				Sub Total	8500.00	
Last Payment Date - 22-08-2024				Sub Total	0.00	
Payable amt.(excluding ACD) as on 2023-09-14 12:16:49:Rs.8535/-			c) Other Charges	Meter Rent[MR]	30.00	
				Sub Total	30.00	
			d) GST	MR-CGST	2.70	
				MR-SGST	2.70	
				Sub Total	5.40	
			e) Round Off		-0.40	
			e) Total Amt.(Bill#5562230914142)	(a+c+d+e)	8535.00	
			f) Surcharge		0.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
			i) Arrears		0.00	
			j) Less paid/adj.		-8535.00	
			k) Less Advance		-0.00	
			Net Payable(e+f+g+h+i-j-k)			0.00
Demand for 9/2023 is Rupees Eight Thousand Five Hundred and Thirty Five Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

OrumaNET Ver#2.4.3 dtd.20/07/2024 printed @ 23/08/2024 11:08:53

Senior Superintendent





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Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202309 (Generator)

Units Imported	1350 kWh	Units Exported	2940 kWh
Bank Opening	4936.915	Billed Consumption	0 kWh
Bank Closing	4508.859		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:59 am





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Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202308	00729	A	1050	2400	7920	7920	1050	0	6870
	13043	A	1820	0	6870	6468.11	1820	0	4648.11
202309	00729	A	1350	2940	7876.92	7876.92	1350	0	6526.92
	13043	A	1900	0	6526.92	6145.09	1900	0	4245.09

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





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Section							[5562]-Electrical Section Thoppumpady		Phone#		0484-2231414		Customer Care		1912																																																																																																																			
Consumer#							1155623000729		Reg. Mob# 984xxxx607		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1																																																																																																																					
Name & Mailing Address							<p>THE COCHIN EDUCATION SOCIETY THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA M, ERNAKULAM</p> <p>For redressing complaints/grievance approach the concerned CGRF</p> <p>South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</p>																																																																																																																											
Bill#							5562230914141		Bill Area		M01/1		DTR		COCHIN COLLEGE																																																																																																																			
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Bill Date							14-09-2023		Due Date		24-09-2023		DC Date		09-10-2023																																																																																																																			
Contract Demand							(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load		83871 Watts		Security Deposit		Rs.49800.00																																																																																																																			
Meter#							SCM0CUST00X1832805		Average consumption(Monthly)																																																																																																																									
Meter Digits							6.2		Power Unit/Zone		CUMULATIVE																																																																																																																							
Meter Type/Owner							NET Meter/Customer		KWH		500																																																																																																																							
Last Billed Rdg. Date			Prev. Rdg. Date		Prev. Meter Rdg. Status			Prst. Rdg. Date		Prst. Meter Rdg. Status																																																																																																																								
10-08-2023			10-08-2023		Working			14-09-2023		Working																																																																																																																								
Power Unit		Zone		Trading		Initial Reading(IR)		Final Reading(FR)		OMF		Units*																																																																																																																						
KWH		Cumulative		Import		366.00		411.00		30		1350																																																																																																																						
KWH		Cumulative		Export		1179.00		1277.00		30		2940																																																																																																																						
Remarks :							Bill Details							[INR] Amount(Rs.)																																																																																																																				
<p>Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023) Last Paid Amount - Rs.7256.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2023-09-14 12:16:46:Rs.7407/-</p> <table border="1"> <thead> <tr> <th colspan="8">Solar Generation</th> </tr> <tr> <th>Description</th> <th>Date</th> <th>Zone</th> <th>Tr.</th> <th>IR</th> <th>FR</th> <th>MF</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>Regular Reading Point</td> <td>14-09-2023</td> <td>WAL</td> <td>I</td> <td>3601.00</td> <td>3909.00</td> <td>20</td> <td>6160</td> </tr> </tbody> </table>							Solar Generation								Description	Date	Zone	Tr.	IR	FR	MF	Units	Regular Reading Point	14-09-2023	WAL	I	3601.00	3909.00	20	6160	<table border="1"> <tbody> <tr> <td>a)</td> <td>Fixed Charges</td> <td>Fixed Charge[FC]</td> <td colspan="2">5880.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2">5880.00</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2">0.00</td> </tr> <tr> <td>c)</td> <td>Other Charges</td> <td>Wheeling Charge</td> <td colspan="2">1231.01</td> </tr> <tr> <td></td> <td></td> <td>ED[Self Generation]</td> <td colspan="2">73.92</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2">1304.93</td> </tr> <tr> <td>d)</td> <td>GST</td> <td>SGST[Wheeling Charge]</td> <td colspan="2">110.79</td> </tr> <tr> <td></td> <td></td> <td>CGST[Wheeling Charge]</td> <td colspan="2">110.79</td> </tr> <tr> <td></td> <td></td> <td>Sub Total</td> <td colspan="2">221.58</td> </tr> <tr> <td>e)</td> <td>Round Off</td> <td></td> <td colspan="2">0.49</td> </tr> <tr> <td>f)</td> <td>Total Amt.(Bill#5562230914141)</td> <td><i>(a+c+d+e)</i></td> <td colspan="2">7407.00</td> </tr> <tr> <td>g)</td> <td>Surcharge</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>h)</td> <td>Reconnection Fee</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>i)</td> <td>Interim Bills</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>j)</td> <td>Arrears</td> <td></td> <td colspan="2">0.00</td> </tr> <tr> <td>k)</td> <td>Less paid/adj.</td> <td></td> <td colspan="2">-7407.00</td> </tr> <tr> <td>l)</td> <td>Less Advance</td> <td></td> <td colspan="2">-0.00</td> </tr> <tr> <td></td> <td>Net Payable(f+g+h+i+j-k-l)</td> <td></td> <td colspan="2">0.00</td> </tr> </tbody> </table>							a)	Fixed Charges	Fixed Charge[FC]	5880.00				Sub Total	5880.00				Sub Total	0.00		c)	Other Charges	Wheeling Charge	1231.01				ED[Self Generation]	73.92				Sub Total	1304.93		d)	GST	SGST[Wheeling Charge]	110.79				CGST[Wheeling Charge]	110.79				Sub Total	221.58		e)	Round Off		0.49		f)	Total Amt.(Bill#5562230914141)	<i>(a+c+d+e)</i>	7407.00		g)	Surcharge		0.00		h)	Reconnection Fee		0.00		i)	Interim Bills		0.00		j)	Arrears		0.00		k)	Less paid/adj.		-7407.00		l)	Less Advance		-0.00			Net Payable(f+g+h+i+j-k-l)		0.00		<p>Demand for 9/2023 is Rupees Seven Thousand Four Hundred and Seven Only</p>		
Solar Generation																																																																																																																																		
Description	Date	Zone	Tr.	IR	FR	MF	Units																																																																																																																											
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E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.ksebl.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS, Friends, Akshaya, CSC, NACH



Mendula Menon
Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202309 (Generator)

Units Imported	1350 kWh	Units Exported	2940 kWh
Bank Opening	4936.915	Billed Consumption	0 kWh
Bank Closing	4508.859		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:56 am





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202308	00729	A	1050	2400	7920	7920	1050	0	6870
	13043	A	1820	0	6870	6468.11	1820	0	4648.11
202309	00729	A	1350	2940	7876.92	7876.92	1350	0	6526.92
	13043	A	1900	0	6526.92	6145.09	1900	0	4245.09

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FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)						
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912
Consumer#	1155629013043		Reg. Mob# 940xxxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1	
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF			
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488			
Bill#	5562231001949		Bill Area	M01/1	DTR	COCHIN COLLEGE
Billing Period	10/2023[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30
Bill Date	03-10-2023		Due Date	13-10-2023	DC Date	28-10-2023
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00
Meter#	GPIAPR180004339810		Average consumption(Monthly)			
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE		
Meter Type/Owner	TOD/KSEB		KWH	500		
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
14-09-2023	14-09-2023	Working		03-10-2023	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	1023.00	1098.00	20	1500
Remarks :			Bill Details			[INR] Amount(Rs.)
Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)			a) Fixed Charges	Fixed Charge[FC]	8500.00	
Last Paid Amount - Rs.21942.00				Sub Total	8500.00	
Last Payment Date - 22-08-2024				Sub Total	0.00	
Payable amt.(excluding ACD) as on 2023-10-10 15:45:07:Rs.8535/-			c) Other Charges	Meter Rent[MR]	30.00	
				Sub Total	30.00	
			d) GST	MR-CGST	2.70	
				MR-SGST	2.70	
				Sub Total	5.40	
			e) Round Off		-0.40	
			e) Total Amt.(Bill#5562231001949)	(a+c+d+e)	8535.00	
			f) Surcharge		0.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
			i) Arrears		0.00	
			j) Less paid/adj.		-8535.00	
			k) Less Advance		-0.00	
			Net Payable(e+f+g+h+i-j-k)			0.00
Demand for 10/2023 is Rupees Eight Thousand Five Hundred and Thirty Five Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202310 (Generator)

Units Imported	900 kWh	Units Exported	1530 kWh
Bank Opening	4508.859	Billed Consumption	0 kWh
Bank Closing	3545.657		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 12:02 pm





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202309	00729	A	1350	2940	7876.92	7876.92	1350	0	6526.92
	13043	A	1900	0	6526.92	6145.09	1900	0	4245.09
202310	00729	A	900	1530	6038.86	6038.86	900	0	5138.86
	13043	A	1500	0	5138.86	4838.24	1500	0	3338.24

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FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Section							[5562]-Electrical Section Thoppumpady		Phone#		0484-2231414		Customer Care		1912																						
Consumer#							1155623000729		Reg. Mob# 984xxxx607		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1																								
Name & Mailing Address							<p>THE COCHIN EDUCATION SOCIETY THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA M, ERNAKULAM</p> <p>For redressing complaints/grievance approach the concerned CGRF</p> <p>South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</p>																														
Bill#							5562231001948		Bill Area		M01/1		DTR		COCHIN COLLEGE																						
Billing Period							10/2023[Monthly]		Tariff/Phase		LT-6A/Three		Pole#		PP-30																						
Bill Date							03-10-2023		Due Date		13-10-2023		DC Date		28-10-2023																						
Contract Demand							(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load		83871 Watts		Security Deposit		Rs.49800.00																						
Meter#							SCM0CUST00X1832805		Average consumption(Monthly)																												
Meter Digits							6.2		Power Unit/Zone		CUMULATIVE																										
Meter Type/Owner							NET Meter/Customer		KWH		500																										
Last Billed Rdg. Date			Prev. Rdg. Date		Prev. Meter Rdg. Status			Prst. Rdg. Date		Prst. Meter Rdg. Status																											
14-09-2023			14-09-2023		Working			03-10-2023		Working																											
Power Unit		Zone		Trading	Initial Reading(IR)		Final Reading(FR)		OMF		Units*																										
KWH		Cumulative		Import	411.00		441.00		30		900																										
KWH		Cumulative		Export	1277.00		1328.00		30		1530																										
Remarks :							<p>Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023) Last Paid Amount - Rs.7256.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2023-10-10 15:45:04:Rs.7069/-</p> <table border="1"> <thead> <tr> <th colspan="8">Solar Generation</th> </tr> <tr> <th>Description</th> <th>Date</th> <th>Zone</th> <th>Tr.</th> <th>IR</th> <th>FR</th> <th>MF</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>Regular Reading Point</td> <td>03-10-2023</td> <td>WAL</td> <td>I</td> <td>3909.00</td> <td>4085.00</td> <td>20</td> <td>3520</td> </tr> </tbody> </table>							Solar Generation								Description	Date	Zone	Tr.	IR	FR	MF	Units	Regular Reading Point	03-10-2023	WAL	I	3909.00	4085.00	20	3520
Solar Generation																																					
Description	Date	Zone	Tr.	IR	FR	MF	Units																														
Regular Reading Point	03-10-2023	WAL	I	3909.00	4085.00	20	3520																														
Bill Details							[INR] Amount(Rs.)																														
a) Fixed Charges		Fixed Charge[FC]				5880.00																															
		Sub Total				5880.00																															
		Sub Total				0.00																															
c) Other Charges		Wheeling Charge				971.85																															
		ED[Self Generation]				42.24																															
		Sub Total				1014.09																															
d) GST		SGST[Wheeling Charge]				87.47																															
		CGST[Wheeling Charge]				87.47																															
		Sub Total				174.94																															
e) Round Off						-0.03																															
e) Total Amt.(Bill#5562231001948)		(a+c+d+e)				7069.00																															
f) Surcharge						0.00																															
g) Reconnection Fee						0.00																															
h) Interim Bills						0.00																															
i) Arrears						0.00																															
j) Less paid/adj.						-7069.00																															
k) Less Advance						-0.00																															
		Net Payable(e+f+g+h+i-j-k)				0.00																															
Demand for 10/2023 is Rupees Seven Thousand and Sixty Nine Only																																					

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.ksebl.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS, Friends, Akshaya, CSC, NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202310 (Generator)

Units Imported	900 kWh	Units Exported	1530 kWh
Bank Opening	4508.859	Billed Consumption	0 kWh
Bank Closing	3545.657		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:57 am





THE COCHIN COLLEGE

KOCHI - 682 002

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Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202309	00729	A	1350	2940	7876.92	7876.92	1350	0	6526.92
	13043	A	1900	0	6526.92	6145.09	1900	0	4245.09
202310	00729	A	900	1530	6038.86	6038.86	900	0	5138.86
	13043	A	1500	0	5138.86	4838.24	1500	0	3338.24

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Section							[5562]-Electrical Section Thoppumpady		Phone#		0484-2231414		Customer Care		1912	
Consumer#							1155623000729		Reg. Mob# 984xxxx607		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1			
Name & Mailing Address							<p>THE COCHIN EDUCATION SOCIETY THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA M, ERNAKULAM</p> <p>For redressing complaints/grievance approach the concerned CGRF</p> <p>South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</p>									
Bill#							5562231110927		Bill Area		M01/1		DTR		COCHIN COLLEGE	
Billing Period							11/2023[Monthly]		Tariff/Phase		LT-6A/Three		Pole#		PP-30	
Bill Date							09-11-2023		Due Date		20-11-2023		DC Date		04-12-2023	
Contract Demand							(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load		83871 Watts		Security Deposit		Rs.49800.00	
Meter#							SCM0CUST00X1832805		Average consumption(Monthly)							
Meter Digits							6.2		Power Unit/Zone		CUMULATIVE					
Meter Type/Owner							NET Meter/Customer		KWH		500					
Last Billed Rdg. Date			Prev. Rdg. Date		Prev. Meter Rdg. Status			Prst. Rdg. Date		Prst. Meter Rdg. Status						
03-10-2023			03-10-2023		Working			09-11-2023		Working						
Power Unit		Zone		Trading	Initial Reading(IR)		Final Reading(FR)		OMF		Units*					
KWH		Cumulative		Import	441.00		466.00		30		750					
KWH		Cumulative		Export	1328.00		1394.00		30		1980					
Remarks :							Bill Details							[INR] Amount(Rs.)		
Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)							a) Fixed Charges		Fixed Charge[FC]		6132.00					
Last Paid Amount - Rs.7256.00									Sub Total		6132.00					
Last Payment Date - 22-08-2024									Sub Total		0.00					
Payable amt.(excluding ACD) as on 2023-11-14 15:21:38:Rs.7469/-							c) Other Charges		Wheeling Charge		1088.48					
									ED[Self Generation]		36.00					
									Sub Total		1124.48					
							d) GST		SGST[Wheeling Charge]		97.96					
									CGST[Wheeling Charge]		97.96					
									Sub Total		195.92					
							e) Round Off				-0.40					
							e) Total Amt.(Bill#5562231110927)		(a+c+d+e)		7452.00					
							f) Surcharge				17.00					
							g) Reconnection Fee				0.00					
							h) Interim Bills				0.00					
							i) Arrears				0.00					
							j) Less paid/adj.				-7469.00					
							k) Less Advance				-0.00					
							Net Payable(e+f+g+h+i-j-k)				0.00					
Demand for 11/2023 is Rupees Seven Thousand Four Hundred and Fifty Two Only																

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.ksebl.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS, Friends, Akshaya, CSC, NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202311 (Generator)

Units Imported	750 kWh	Units Exported	1980 kWh
Bank Opening	0.000	Billed Consumption	0 kWh
Bank Closing	2991.27		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:57 am





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202310	00729	A	900	1530	6038.86	6038.86	900	0	5138.86
	13043	A	1500	0	5138.86	4838.24	1500	0	3338.24
202311	00729	A	750	1980	5525.66	5525.66	750	0	4775.66
	13043	A	1680	0	4775.66	4496.28	1680	0	2816.28

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)						
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912
Consumer#	1155629013043		Reg. Mob# 940xxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1	
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF			
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488			
Bill#	5562231110925		Bill Area	M01/1	DTR	COCHIN COLLEGE
Billing Period	11/2023[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30
Bill Date	09-11-2023		Due Date	19-11-2023	DC Date	04-12-2023
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00
Meter#	GPIAPR180004339810		Average consumption(Monthly)			
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE		
Meter Type/Owner	TOD/KSEB		KWH	500		
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
03-10-2023	03-10-2023	Working		09-11-2023	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	1098.00	1182.00	20	1680
Remarks :			Bill Details			[INR] Amount(Rs.)
Fuel Surcharge[FS] @9 Ps./Unit (Vide Order dt. 25-01-2023)			a) Fixed Charges	Fixed Charge[FC]	8650.00	
Last Paid Amount - Rs.21942.00				Sub Total	8650.00	
Last Payment Date - 22-08-2024				Sub Total	0.00	
Payable amt.(excluding ACD) as on 2023-11-14 15:21:41:Rs.8705/-			c) Other Charges	Meter Rent[MR]	30.00	
				Sub Total	30.00	
			d) GST	MR-CGST	2.70	
				MR-SGST	2.70	
				Sub Total	5.40	
			e) Round Off		-0.40	
			e) Total Amt.(Bill#5562231110925)	(a+c+d+e)	8685.00	
			f) Surcharge		20.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
			i) Arrears		0.00	
			j) Less paid/adj.		-8705.00	
			k) Less Advance		-0.00	
			Net Payable(e+f+g+h+i-j-k)			0.00
Demand for 11/2023 is Rupees Eight Thousand Six Hundred and Eighty Five Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202311 (Generator)

Units Imported	750 kWh	Units Exported	1980 kWh
Bank Opening	0.000	Billed Consumption	0 kWh
Bank Closing	2991.27		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 12:03 pm





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202310	00729	A	900	1530	6038.86	6038.86	900	0	5138.86
	13043	A	1500	0	5138.86	4838.24	1500	0	3338.24
202311	00729	A	750	1980	5525.66	5525.66	750	0	4775.66
	13043	A	1680	0	4775.66	4496.28	1680	0	2816.28

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)										
Section	[5562]-Electrical Section Thoppumpady				Phone#	0484-2231414	Customer Care	1912		
Consumer#	1155623000729			Reg. Mob#	984xxxx607	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1			
Name & Mailing Address				For redressing complaints/grievance approach the concerned CGRF						
THE COCHIN EDUCATION SOCIETY				South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300						
THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA				Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500						
M, ERNAKULAM				North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820						
				State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488						
Bill#	5562231202216			Bill Area	M01/1	DTR	COCHIN COLLEGE			
Billing Period	12/2023[Monthly]			Tariff/Phase	LT-6A/Three	Pole#	PP-30			
Bill Date	01-12-2023			Due Date	11-12-2023	DC Date	26-12-2023			
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]			Connected Load	83871 Watts	Security Deposit	Rs.49800.00			
Meter#	SCM0CUST00X1832805			Average consumption(Monthly)						
Meter Digits	6.2			Power Unit/Zone	CUMULATIVE					
Meter Type/Owner	NET Meter/Customer			KWH	500					
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status		Prst. Rdg. Date		Prst. Meter Rdg. Status		
09-11-2023		09-11-2023		Working		01-12-2023		Working		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*				
KWH	Cumulative	Import	466.00	502.00	30	1080				
KWH	Cumulative	Export	1394.00	1449.00	30	1650				
Remarks :				Bill Details				[INR] Amount(Rs.)		
Last Paid Amount - Rs.7256.00				a) Fixed Charges				Fixed Charge[FC]		6720.00
Last Payment Date - 22-08-2024								Sub Total		6720.00
Payable amt.(excluding ACD) as on 2023-12-04 17:17:04:Rs.8078/-								Sub Total		0.00
Solar Generation				c) Other Charges				Wheeling Charge		1088.64
								ED[Self Generation]		73.20
								Sub Total		1161.84
Description				Date	Zone	Tr.	IR	FR	MF	Units
Regular				01-12-2023	WAL	I	4235.00	4540.00	20	6100
Reading Point								Sub Total		195.96
				e) Round Off						0.20
				f) Total Amt.(Bill#5562231202216)				(a+c+d+e)		8078.00
				g) Surcharge						0.00
				h) Reconnection Fee						0.00
				i) Interim Bills						0.00
				j) Arrears						0.00
				k) Less paid/adj.						-8078.00
				l) Less Advance						-0.00
				Net Payable(f+g+h+i+j-k-l)						0.00
Demand for 12/2023 is Rupees Eight Thousand and Seventy Eight Only										

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202312 (Generator)

Units Imported	1080 kWh	Units Exported	1650 kWh
Bank Opening	2991.27	Billed Consumption	0 kWh
Bank Closing	1805.4		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:57 am





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202311	00729	A	750	1980	5525.66	5525.66	750	0	4775.66
	13043	A	1680	0	4775.66	4496.28	1680	0	2816.28
202312	00729	A	1080	1650	4641.27	4641.27	1080	0	3561.27
	13043	A	1660	0	3561.27	3366.82	1660	0	1706.82

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)						
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912
Consumer#	1155629013043		Reg. Mob# 940xxxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1	
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF			
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488			
Bill#	5562231202217		Bill Area	M01/1	DTR	COCHIN COLLEGE
Billing Period	12/2023[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30
Bill Date	01-12-2023		Due Date	11-12-2023	DC Date	26-12-2023
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00
Meter#	GPIAPR180004339810		Average consumption(Monthly)			
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE		
Meter Type/Owner	TOD/KSEB		KWH	500		
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
09-11-2023	09-11-2023	Working		01-12-2023	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	1182.00	1265.00	20	1660
Remarks :			Bill Details			[INR] Amount(Rs.)
Last Paid Amount - Rs.21942.00			a) Fixed Charges	Fixed Charge[FC]	9000.00	
Last Payment Date - 22-08-2024				Sub Total	9000.00	
Payable amt.(excluding ACD) as on 2023-12-04 17:17:07:Rs.9035/-				Sub Total	0.00	
			c) Other Charges	Meter Rent[MR]	30.00	
				Sub Total	30.00	
			d) GST	MR-CGST	2.70	
				MR-SGST	2.70	
				Sub Total	5.40	
			e) Round Off		-0.40	
			e) Total Amt.(Bill#5562231202217)	(a+c+d+e)	9035.00	
			f) Surcharge		0.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
			i) Arrears		0.00	
			j) Less paid/adj.		-9035.00	
			k) Less Advance		-0.00	
			Net Payable(e+f+g+h+i-j-k)			0.00
Demand for 12/2023 is Rupees Nine Thousand and Thirty Five Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202312 (Generator)

Units Imported	1080 kWh	Units Exported	1650 kWh
Bank Opening	2991.27	Billed Consumption	0 kWh
Bank Closing	1805.4		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

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THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202311	00729	A	750	1980	5525.66	5525.66	750	0	4775.66
	13043	A	1680	0	4775.66	4496.28	1680	0	2816.28
202312	00729	A	1080	1650	4641.27	4641.27	1080	0	3561.27
	13043	A	1660	0	3561.27	3366.82	1660	0	1706.82

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)																																							
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912																																	
Consumer#	1155623000729		Reg. Mob# 984xxxx607	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1																																		
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF																																				
THE COCHIN EDUCATION SOCIETY THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA M, ERNAKULAM			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300																																				
			Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500																																				
			North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820																																				
			State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488																																				
Bill#	5562240103859		Bill Area	M01/1	DTR	COCHIN COLLEGE																																	
Billing Period	1/2024[Monthly]		Tariff/Phase	LT-6A/Three	Pole#	PP-30																																	
Bill Date	03-01-2024		Due Date	13-01-2024	DC Date	29-01-2024																																	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	83871 Watts	Security Deposit	Rs.49800.00																																	
Meter#	SCM0CUST00X1832805		Average consumption(Monthly)																																				
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE																																			
Meter Type/Owner	NET Meter/Customer		KWH	500																																			
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status																																		
01-12-2023	01-12-2023	Working		03-01-2024	Working																																		
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*																																	
KWH	Cumulative	Import	502.00	532.00	30	900																																	
KWH	Cumulative	Export	1449.00	1551.00	30	3060																																	
Remarks :			Bill Details			[INR] Amount(Rs.)																																	
Last Paid Amount - Rs.7256.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2024-01-17 15:30:35:Rs.7962/- <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Solar Generation</th> </tr> <tr> <th>Description</th> <th>Date</th> <th>Zone</th> <th>Tr.</th> <th>IR</th> <th>FR</th> <th>MF</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>Regular</td> <td>03-01-2024</td> <td>WAL</td> <td>I</td> <td>4540.00</td> <td>4834.00</td> <td>20</td> <td>5880</td> </tr> <tr> <td>Reading Point</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Solar Generation								Description	Date	Zone	Tr.	IR	FR	MF	Units	Regular	03-01-2024	WAL	I	4540.00	4834.00	20	5880	Reading Point								a)	Fixed Charges	Fixed Charge[FC]	6720.00	
			Solar Generation																																				
			Description	Date	Zone	Tr.	IR	FR	MF	Units																													
			Regular	03-01-2024	WAL	I	4540.00	4834.00	20	5880																													
			Reading Point																																				
							Sub Total	6720.00																															
							Sub Total	0.00																															
							c) Other Charges	Wheeling Charge	983.71																														
								ED[Self Generation]	70.56																														
								Sub Total	1054.27																														
							d) GST	SGST[Wheeling Charge]	88.53																														
								CGST[Wheeling Charge]	88.53																														
								Sub Total	177.06																														
							e) Round Off		-0.33																														
							e) Total Amt.(Bill#5562240103859)	(a+c+d+e)	7951.00																														
				f) Surcharge		11.00																																	
				g) Reconnection Fee		0.00																																	
				h) Interim Bills		0.00																																	
				i) Arrears		-0.00																																	
				j) Less paid/adj.		-7962.00																																	
				k) Less Advance		-0.00																																	
				Net Payable(e+f+g+h+i-j-k)		0.00																																	
Demand for 1/2024 is Rupees Seven Thousand Nine Hundred and Fifty One Only																																							

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS, Friends, Akshaya, CSC, NACH



Mendula Menon V.
Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202401 (Generator)

Units Imported	900 kWh	Units Exported	3060 kWh
Bank Opening	1805.4	Billed Consumption	0 kWh
Bank Closing	2378.77		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

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THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202312	00729	A	1080	1650	4641.27	4641.27	1080	0	3561.27
	13043	A	1660	0	3561.27	3366.82	1660	0	1706.82
202401	00729	A	900	3060	4865.4	4865.4	900	0	3965.4
	13043	A	1500	0	3965.4	3748.89	1500	0	2248.89

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)							
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912	
Consumer#	1155629013043		Reg. Mob# 940xxxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1		
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF				
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300				
			Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500				
			North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820				
			State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488				
Bill#	5562240103857		Bill Area	M01/1	DTR	COCHIN COLLEGE	
Billing Period	1/2024[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30	
Bill Date	03-01-2024		Due Date	13-01-2024	DC Date	29-01-2024	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00	
Meter#	GPIAPR180004339810		Average consumption(Monthly)				
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE			
Meter Type/Owner	TOD/KSEB		KWH	500			
Last Billed Rdg. Date		Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
01-12-2023		01-12-2023	Working		03-01-2024	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*	
KWH	Cumulative	Import	1265.00	1340.00	20	1500	
Remarks :			Bill Details			[INR] Amount(Rs.)	
Last Paid Amount - Rs.21942.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2024-01-17 15:30:38:Rs.9047/-			a)	Fixed Charges	Fixed Charge[FC]	9000.00	
					Sub Total		9000.00
					Sub Total		0.00
			c)	Other Charges	Meter Rent[MR]		30.00
					Sub Total		30.00
			d)	GST	MR-CGST		2.70
					MR-SGST		2.70
					Sub Total		5.40
			e)	Round Off			-0.40
			e)	Total Amt.(Bill#5562240103857) (a+c+d+e)			9035.00
			f)	Surcharge			12.00
			g)	Reconnection Fee			0.00
			h)	Interim Bills			0.00
			i)	Arrears			0.00
j)	Less paid/adj.			-9047.00			
k)	Less Advance			-0.00			
	Net Payable(e+f+g+h+i-j-k)			0.00			
Demand for 1/2024 is Rupees Nine Thousand and Thirty Five Only							

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS, Friends, Akshaya, CSC, NACH

OrumaNET Ver#2.4.3 dtd.20/07/2024 printed @ 23/08/2024 12:08:34

Senior Superintendent



Mendula Menon
Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202401 (Generator)

Units Imported	900 kWh	Units Exported	3060 kWh
Bank Opening	1805.4	Billed Consumption	0 kWh
Bank Closing	2378.77		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 12:06 pm





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202312	00729	A	1080	1650	4641.27	4641.27	1080	0	3561.27
	13043	A	1660	0	3561.27	3366.82	1660	0	1706.82
202401	00729	A	900	3060	4865.4	4865.4	900	0	3965.4
	13043	A	1500	0	3965.4	3748.89	1500	0	2248.89

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





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(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)																																									
Section	[5562]-Electrical Section Thoppumpady				Phone#	0484-2231414		Customer Care	1912																																
Consumer#	1155623000729			Reg. Mob#	984xxxx607		Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1																																	
Name & Mailing Address				For redressing complaints/grievance approach the concerned CGRF																																					
THE COCHIN EDUCATION SOCIETY THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA M, ERNAKULAM				South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300																																					
				Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500																																					
				North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820																																					
				State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488																																					
Bill#	5562240202605			Bill Area	M01/1		DTR	COCHIN COLLEGE																																	
Billing Period	2/2024[Monthly]			Tariff/Phase	LT-6A/Three		Pole#	PP-30																																	
Bill Date	01-02-2024			Due Date	11-02-2024		DC Date	26-02-2024																																	
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]			Connected Load	83871 Watts		Security Deposit	Rs.49800.00																																	
Meter#	SCM0CUST00X1832805			Average consumption(Monthly)																																					
Meter Digits	6.2			Power Unit/Zone	CUMULATIVE																																				
Meter Type/Owner	NET Meter/Customer			KWH	500																																				
Last Billed Rdg. Date		Prev. Rdg. Date		Prev. Meter Rdg. Status			Prst. Rdg. Date		Prst. Meter Rdg. Status																																
03-01-2024		03-01-2024		Working			01-02-2024		Working																																
Power Unit	Zone	Trading	Initial Reading(IR)		Final Reading(FR)		OMF	Units*																																	
KWH	Cumulative	Import	532.00		551.00		30	570																																	
KWH	Cumulative	Export	1551.00		1635.00		30	2520																																	
Remarks :				Bill Details				[INR] Amount(Rs.)																																	
Last Paid Amount - Rs.7256.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2024-02-07 15:00:37:Rs.8409/- <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8">Solar Generation</th> </tr> <tr> <th>Description</th> <th>Date</th> <th>Zone</th> <th>Tr.</th> <th>IR</th> <th>FR</th> <th>MF</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>Regular</td> <td>01-02-2024</td> <td>WAL</td> <td>I</td> <td>4834.00</td> <td>5096.00</td> <td>20</td> <td>5240</td> </tr> <tr> <td>Reading Point</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Solar Generation								Description	Date	Zone	Tr.	IR	FR	MF	Units	Regular	01-02-2024	WAL	I	4834.00	5096.00	20	5240	Reading Point								a)	Fixed Charges	Fixed Charge[FC]	6720.00		
				Solar Generation																																					
				Description	Date	Zone	Tr.	IR	FR	MF	Units																														
				Regular	01-02-2024	WAL	I	4834.00	5096.00	20	5240																														
				Reading Point																																					
											Sub Total	6720.00																													
											Sub Total	0.00																													
											c) Other Charges	Wheeling Charge	1350.96																												
												ED[Self Generation]	62.88																												
												Sub Total	1413.84																												
											d) GST	SGST[Wheeling Charge]	121.59																												
												CGST[Wheeling Charge]	121.59																												
												Sub Total	243.18																												
											e) Round Off		-0.02																												
											e) Total Amt.(Bill#5562240202605)	(a+c+d+e)	8377.00																												
							f) Surcharge		32.00																																
							g) Reconnection Fee		0.00																																
							h) Interim Bills		0.00																																
							i) Arrears		0.00																																
							j) Less paid/adj.		-8409.00																																
							k) Less Advance		-0.00																																
							Net Payable(e+f+g+h+i-j-k)		0.00																																
Demand for 2/2024 is Rupees Eight Thousand Three Hundred and Seventy Seven Only																																									

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS, Friends, Akshaya, CSC, NACH



Mendula Menon
Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

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Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202402 (Generator)

Units Imported	570 kWh	Units Exported	2520 kWh
Bank Opening	2378.77	Billed Consumption	0 kWh
Bank Closing	2149.798		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:58 am





THE COCHIN COLLEGE

KOCHI - 682 002

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Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202401	00729	A	900	3060	4865.4	4865.4	900	0	3965.4
	13043	A	1500	0	3965.4	3748.89	1500	0	2248.89
202402	00729	A	570	2520	4898.77	4898.77	570	0	4328.77
	13043	A	2060	0	4328.77	4092.42	2060	0	2032.42

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





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Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)						
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912
Consumer#	1155629013043		Reg. Mob# 940xxxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1	
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF			
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488			
Bill#	5562240202606		Bill Area	M01/1	DTR	COCHIN COLLEGE
Billing Period	2/2024[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30
Bill Date	01-02-2024		Due Date	11-02-2024	DC Date	26-02-2024
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00
Meter#	GPIAPR180004339810		Average consumption(Monthly)			
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE		
Meter Type/Owner	TOD/KSEB		KWH	500		
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
03-01-2024	03-01-2024	Working		01-02-2024	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	1340.00	1443.00	20	2060
Remarks :			Bill Details			[INR] Amount(Rs.)
Last Paid Amount - Rs.21942.00			a) Fixed Charges	Fixed Charge[FC]	9000.00	
Last Payment Date - 22-08-2024				Sub Total	9000.00	
Payable amt.(excluding ACD) as on 2024-02-07 15:00:40:Rs.9071/-				Sub Total	0.00	
			c) Other Charges	Meter Rent[MR]	30.00	
				Sub Total	30.00	
			d) GST	MR-CGST	2.70	
				MR-SGST	2.70	
				Sub Total	5.40	
			e) Round Off		-0.40	
			e) Total Amt.(Bill#5562240202606)	(a+c+d+e)	9035.00	
			f) Surcharge		36.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
			i) Arrears		0.00	
			j) Less paid/adj.		-9071.00	
			k) Less Advance		-0.00	
			Net Payable(e+f+g+h+i-j-k)			0.00
Demand for 2/2024 is Rupees Nine Thousand and Thirty Five Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH

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Senior Superintendent





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202402 (Generator)

Units Imported	570 kWh	Units Exported	2520 kWh
Bank Opening	2378.77	Billed Consumption	0 kWh
Bank Closing	2149.798		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 12:06 pm





THE COCHIN COLLEGE

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Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202401	00729	A	900	3060	4865.4	4865.4	900	0	3965.4
	13043	A	1500	0	3965.4	3748.89	1500	0	2248.89
202402	00729	A	570	2520	4898.77	4898.77	570	0	4328.77
	13043	A	2060	0	4328.77	4092.42	2060	0	2032.42

Page 1

FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





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Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Section							[5562]-Electrical Section Thoppumpady		Phone#		0484-2231414		Customer Care		1912																																																																										
Consumer#							1155623000729		Reg. Mob# 984xxxx607		Regular CC Bill		KSEBL GSTIN: 32AAECK2277NBZ1																																																																												
Name & Mailing Address							<p>THE COCHIN EDUCATION SOCIETY THE PRESIDENT, COCHIN COLLEGE ROAD, KOOVAPADA M, ERNAKULAM</p> <p>For redressing complaints/grievance approach the concerned CGRF</p> <p>South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488</p>																																																																																		
Bill#							5562240303159		Bill Area		M01/1		DTR		COCHIN COLLEGE																																																																										
Billing Period							3/2024[Monthly]		Tariff/Phase		LT-6A/Three		Pole#		PP-30																																																																										
Bill Date							01-03-2024		Due Date		11-03-2024		DC Date		30-03-2024																																																																										
Contract Demand							(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load		83871 Watts		Security Deposit		Rs.49800.00																																																																										
Meter#							SCM0CUST00X1832805		Average consumption(Monthly)																																																																																
Meter Digits							6.2		Power Unit/Zone		CUMULATIVE																																																																														
Meter Type/Owner							NET Meter/Customer		KWH		500																																																																														
Last Billed Rdg. Date			Prev. Rdg. Date		Prev. Meter Rdg. Status			Prst. Rdg. Date		Prst. Meter Rdg. Status																																																																															
01-02-2024			01-02-2024		Working			01-03-2024		Working																																																																															
Power Unit		Zone		Trading	Initial Reading(IR)		Final Reading(FR)		OMF		Units*																																																																														
KWH		Cumulative		Import	551.00		586.00		30		1050																																																																														
KWH		Cumulative		Export	1635.00		1697.00		30		1860																																																																														
Remarks :							<p>Last Paid Amount - Rs.7256.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2024-03-16 15:34:39:Rs.8750/-</p> <table border="1"> <thead> <tr> <th colspan="8">Solar Generation</th> </tr> <tr> <th>Description</th> <th>Date</th> <th>Zone</th> <th>Tr.</th> <th>IR</th> <th>FR</th> <th>MF</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>Regular</td> <td>01-03-2024</td> <td>WAL</td> <td>I</td> <td>5096.00</td> <td>5363.00</td> <td>20</td> <td>5340</td> </tr> <tr> <td>Reading Point</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							Solar Generation								Description	Date	Zone	Tr.	IR	FR	MF	Units	Regular	01-03-2024	WAL	I	5096.00	5363.00	20	5340	Reading Point																																																			
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Mendula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

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Solar OnGrid Consumer (Generator)

Consumer No.	1155623000729	Consumer Name	THE COCHIN EDUCATION SOCIETY
SPIN	556200173	Plant Capacity	40 KW
Grid Connected On	17-05-2022		

Bank Statement for 202403 (Generator)

Units Imported	1050 kWh	Units Exported	1860 kWh
Bank Opening	2149.798	Billed Consumption	0 kWh
Bank Closing	276.278		

Solar Group Consumers (Beneficiaries)

Priority	Consumer #	Section
1	1155623000729	5562
2	1155629013043	5562
3	1155628028625	5562

Generated on 23.08.24 11:59 am





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Consumption Adjustment Report

Bill Month	Consumer #	Zone Code	Import	Export	Export + Bank	Solar Energy (Bank Energy X Factor)	Adjusted from bank	Billed Cons.	Banked Balance
202402	00729	A	570	2520	4898.77	4898.77	570	0	4328.77
	13043	A	2060	0	4328.77	4092.42	2060	0	2032.42
202403	00729	A	1050	1860	4009.8	4009.8	1050	0	2959.8
	13043	A	2140	0	2959.8	2798.19	2140	0	658.19
	28625	A	397	0	658.19	658.19	397	0	261.19

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FACTOR : 0-Reading Not Accepted/Door Lock -Applying Wheeling Charges 1/-Resetting Wheeling Charges





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(As per Regulation 122 & 123 of Kerala Electricity Supply Code 2014)						
Section	[5562]-Electrical Section Thoppumpady		Phone#	0484-2231414	Customer Care	1912
Consumer#	1155629013043		Reg. Mob# 940xxxx473	Regular CC Bill	KSEBL GSTIN: 32AAECK2277NBZ1	
Name & Mailing Address			For redressing complaints/grievance approach the concerned CGRF			
JOSE T MOOKKEN PRESIDENT COCHIN EDUCATIONAL SOCIETY, COCHIN COLLEGE BUILDING COCHIN 2, THOPPUMPADY			South: Chairperson,CGRF(South),KSEBL,Vydyuthi Bhavanam, Kottarakkara-691506, Ph:0474-2451300 Central: Chairperson,CGRF(Central),KSEBL,220KV SubStation,Kalamassery-683503,Ph:0484-2556500 North: Chairperson,CGRF(North),KSEBL,Vydyuthi Bhavanam,Gandhi Rd.,Kozhikode-673011,Ph:0495-2367820 State Electricity Ombudsman,D.H.Rd & Foreshore Rd Jn.,Near GandhiSquare,Ernakulam-682016,Ph:0484-2346488			
Bill#	5562240303170		Bill Area	M01/1	DTR	COCHIN COLLEGE
Billing Period	3/2024[Monthly]		Tariff/Phase	LT-6F/Three	Pole#	PP-30
Bill Date	01-03-2024		Due Date	11-03-2024	DC Date	30-03-2024
Contract Demand	(Nil) VA [75% : 0KV, 130% : 0KV]		Connected Load	49725 Watts	Security Deposit	Rs.50630.00
Meter#	GPIAPR180004339810		Average consumption(Monthly)			
Meter Digits	6.2		Power Unit/Zone	CUMULATIVE		
Meter Type/Owner	TOD/KSEB		KWH	500		
Last Billed Rdg. Date	Prev. Rdg. Date	Prev. Meter Rdg. Status		Prst. Rdg. Date	Prst. Meter Rdg. Status	
01-02-2024	01-02-2024	Working		01-03-2024	Working	
Power Unit	Zone	Trading	Initial Reading(IR)	Final Reading(FR)	OMF	Units*
KWH	Cumulative	Import	1443.00	1550.00	20	2140
Remarks :			Bill Details			[INR] Amount(Rs.)
Last Paid Amount - Rs.21942.00 Last Payment Date - 22-08-2024 Payable amt.(excluding ACD) as on 2024-03-16 15:34:41:Rs.9038/-			a) Fixed Charges	Fixed Charge[FC]	9000.00	
				Sub Total	9000.00	
				Sub Total	0.00	
			c) Other Charges	Meter Rent[MR]	30.00	
				Sub Total	30.00	
			d) GST	MR-CGST	2.70	
				MR-SGST	2.70	
				Sub Total	5.40	
			e) Round Off		-0.40	
			e) Total Amt.(Bill#5562240303170)	(a+c+d+e)	9035.00	
			f) Surcharge		3.00	
			g) Reconnection Fee		0.00	
			h) Interim Bills		0.00	
i) Arrears		0.00				
j) Less paid/adj.		-9038.00				
k) Less Advance		-0.00				
Net Payable(e+f+g+h+i-j-k)					0.00	
Demand for 3/2024 is Rupees Nine Thousand and Thirty Five Only						

E&OE Payment Options: Cash,Cheque,DD,MO. Online: www.kseb.in (Debit/Credit Cards,Net Banking). Other Platforms: BBPS,Friends,Akshaya,CSC,NACH



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COMMUNITY EXTENSION PROGRAMMES 2023-2024

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- 1.2 Planting of Saplings at Adopted School
- 1.3 International Yoga Day
- 1.4 Poster Designing Competition
 - 1.4.1 Date: 3rd July 2023
- 1.5 Nutrition Kit Distribution for TB Patients
- 1.6 Blood Donation Camp
- 1.7 Independence Day Celebrations
- 1.8 Two Day Residential Camp for Volunteer Secretaries
- 1.9 Onam Celebrations at Good Hope Old Age Home
- 1.10 Teachers' Day Celebration
- 1.11 World Preservation/Ozone Day
- 1.12 Beach Cleaning and Wall Painting for Swachhata Mission
- 1.13 Selection Orientation for First Year Volunteers
- 1.14 Gandhi Jayanti week observance
- 1.15 Swachhata Hi Seva Campaign at Raksha Special School
- 1.16 Pre-Orientation and Campus Cleaning Session 1
- 1.17 Beach Cleaning at Fort Kochi in Association with NETFED
- 1.18 NSS Room Cleaning and Painting
- 1.19 Orientation Camp for First Year NSS Volunteers
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- 1.21 Vayojanotsavam: A Day for Senior Citizens
- 1.22 Malayala Bhasha Vaaracharanam
- 1.23 Malinya Muktha Keralam Nava Keralam Training Program
- 1.24 Constitution Day
- 1.25 AIDS Day Observance
- 1.26 NSS Adventure Camp
- 1.27 Sneharagam Project
- 1.28 Pacha Thuruthu Project in Collaboration with Cochin Corporation
- 1.29 Nutrition Day Competitions Held by the Health Department
- 1.30 Palliative Care Day
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- 1.32 Gandhi Samadhi Day
- 1.33 National Youth Day Celebration
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 - 1.37.2 Physical Exercise:
 - 1.37.3 Community Service:
 - 1.37.4 Educational Sessions:
 - 1.37.5 Financial Literacy:
 - 1.37.6 Digital World:
 - 1.37.7 Decision Making:
 - 1.37.8 Theatre Acting:
 - 1.37.9 Student Seminars:
 - 1.37.10 Special Activities:





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- 1.37.13 Honouring Ambedkar Award Winners:
- 1.37.14 Shooting Session:
- 1.37.15 Self-Defence Session:
- 1.37.16 Waste Management Survey:
- 1.37.17 Drug Awareness Rally:
- 1.37.18 Organic Vegetable Cultivation:
- 1.37.19 Contributions:
- 1.37.20 Reverse Osmosis Water Purifier:
- 2 EXTENSION ACTIVITIES THROUGH DEPARTMENTS, CLUBS AND COMMITTIES
 - 2.1 Department of Zoology
 - 2.1.1 SHARP Project:
 - 2.1.2 ECHO Project:
 - 2.1.3 Zonal Zoo fest:
 - 2.1.4 DROP (Drive to Recover Ocean Plastics) :
 - 2.1.5 Citizen Science Program (REVIVAL) (Rehabilitation of Vibrio Infested Waters of Vembanad Lake- Pollution and Solution):
 - 2.1.6 Nature Education Camp: Silent Valley National Park
 - 2.1.7 Institute Visit:
 - 2.1.8 Student's Exhibition cum Sale of Vermicompost at Udyami Bazar:
 - 2.2 Department of English
 - 2.2.1 English Enhancement Programme:
 - 2.3 Department of Economics
 - 2.3.1 Served as Judge:
 - 2.3.2 Motivation Class:
 - 2.4 Department of Commerce
 - 2.4.1 Swachh Bharat:
 - 2.4.2 Outreach Activity: Visit to Raksha Special School
 - 2.4.3 Extension Activity: Career Opportunities in Commerce
 - 2.5 Department of Physics
 - 2.5.1 Tarang 2024:
 - 2.6 Department of Botany
 - 2.6.1 Visit to Old Age Care Home: Snehapoorvam
 - 2.7 College Library
 - 2.7.1 Books on Wheels:
 - 2.8 Department of Chemistry
 - 2.8.1 Awareness Class on the Abuse of Drugs
 - 2.8.2 Survey on Water Quality:
 - 2.9 Anti Narcotic Cell
 - 2.9.1 Awareness Campaign:
 - 2.10 Nature Club
 - 2.10.1 Nature Camp and Field Study:
 - 2.11 Bhoomitrasena Club
 - 2.11.1 Awareness Campaign:
 - 2.11.2 International Peace G20 Youth Summit 2023
 - 2.12 Awards and Recognition





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COMMUNITY EXTENSION PROGRAMMES 2023-2024

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1 COMMUNITY EXTENSION PROGRAMMES 2023-2024

The National Service Scheme (NSS) unit of The Cochin College has had a remarkably active and impactful academic year 2023-2024, marked by a diverse array of programs and initiatives. Through activities ranging from environmental conservation efforts and health awareness campaigns to cultural celebrations and educational outreach, the NSS unit has demonstrated a strong commitment to community service and national development. Under the dedicated guidance of NSS Program Officers Mr. Renjith S and Dr. Soney Bhageeradhan, the volunteers have embraced the NSS motto "Not Me, But You," prioritizing the needs of the community and working tirelessly to make a positive impact. This document provides a comprehensive overview of the NSS activities carried out during the academic year. It highlights the various events and initiatives undertaken by the unit, showcasing the enthusiasm and dedication of the volunteers in promoting social welfare, environmental sustainability, and cultural enrichment. The successful execution of these programs reflects the collaborative efforts of students, faculty, and external partners, all working together to foster a sense of civic responsibility and community engagement.

1.1 Environment Day Celebration

Date: 5th June 2023

The NSS unit of The Cochin College celebrated Environment Day by planting 30 fruit saplings on the campus. The event was inaugurated by the Principal, Dr. M. Geetha, at 10 am near the basketball court. The program saw a good turnout of teachers and the participation of 60 volunteers. NSS Program Officers Mr. Renjith S and Dr. Soney Bhageeradhan coordinated the event. Following the tree plantation, the event included the inauguration of the "Malinya Muktha Keralam, Navakeralam" initiative. This was accompanied by a campus cleaning drive aimed at raising awareness about the harmful effects of plastic waste. The program concluded at 12:30 pm.



1.2 Planting of Saplings at Adopted School

Date: 8th June 2023

On 8 June 2023, The Cochin College NSS unit planted 20 fruit saplings at TD School, their adopted school in Mat-tancherry, at 3:30 pm. The event was coordinated by NSS Program Officers Mr. Renjith S and Dr. Soney Bhageeradhan. They were joined by 10 volunteers from the NSS unit in this initiative.





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1.3 International Yoga Day

Date: 21st June 2023

The NSS unit of The Cochin College observed International Yoga Day on 21 June 2023 at the indoor auditorium. The resource person for the event was Mr. Manoj Krishnan, a well-known yoga practitioner. The session was attended by a good turnout of teachers and volunteers. Mr. Krishnan guided the participants through various asanas and breathing exercises, which resonated well with the audience and brought about a refreshing sense of serenity. The session lasted from 9 am to 11 am.

1.4 Poster Designing Competition

1.4.1 Date: 3rd July 2023

As part of observing the International Day against Drugs, The Cochin College NSS unit organized a poster designing competition for students on 3 July 2023. The competition, which witnessed good participation from the students, was conducted in Room No. 36 from 1 pm to 1:30 pm. The winners of the competition are:

1. Ashna Ali, III Eco (I Prize)
2. Rahul S., I English (II Prize)
3. Kochu Thressya Titus, IIMA English (III Prize)



1.5 Nutrition Kit Distribution for TB Patients

Date: 10th August 2023

In connection with the International Day for TB Awareness, the NSS unit of The Cochin College distributed nutrition kits comprising food items stipulated by health department authorities. The kits, costing around Rs. 4500, were sponsored by the teachers from the Second Language Department. This initiative was part of the Pradhanmantri T.B. Mukth Abhyan, which aims to ensure that TB patients from low-income families have access to nutritious food. The





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NSS volunteers, along with Program Officers Mr. Renjith S and Dr. Soney Bhageeradhan, visited the District TB Centre at Karuvelipady. They spent time with the patients, inquiring about their health conditions and support systems at home.



1.6 Blood Donation Camp

Date: 11th August 2023

The NSS unit of The Cochin College organized a blood donation camp on 11 August 2023 in association with HDFC Bank and IMA, Cochin. The camp was held at the Chemistry Lab from 9:00 am to 1:00 pm. The event was inaugurated by the college principal, Dr. M. Geetha. The camp saw a very enthusiastic response from both male and female students, with a total of 53 donors participating and donating their blood.



1.7 Independence Day Celebrations

Date: 15th August 2023

The NSS unit of The Cochin College organised an exuberant Independence Day celebration on 15 August 2023. Volunteers prepped the grounds and gardens with eco-friendly festoons, adding to the festive atmosphere. The event began with a flag hoisting ceremony, followed by an Independence Day message delivered by Program Officer Renjith S. and Vice Principal Reshimon P. R. The volunteers sang patriotic songs to mark the occasion. After the ceremony, the volunteers embarked on an Independence Day rally through the locality, singing patriotic songs and chanting nationalistic slogans.





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1.8 Two Day Residential Camp for Volunteer Secretaries

Date: 18-19 August 2023

The four NSS volunteer secretaries Aldriya Nixon, Manu Mohan, Francis Savio, and Afeefa K.N. attended a two-day residential orientation camp for NSS volunteer secretaries at S.H. College, Thevara. The volunteer secretaries came back with their batteries recharged and with a renewed desire to work harder and better towards professed NSS goals.



1.9 Onam Celebrations at Good Hope Old Age Home

Date: 25th August 2023

On 25 August 2023, the Saturday after The Cochin College closed for Onam holidays, 25 NSS volunteers and Program Officers visited Good Hope Old Age Home in Fort Kochi. The volunteers laid a floral carpet and staged dance performances, including Thiruvathira, for the residents. The singing sessions were particularly enjoyable, with some residents taking the mic and singing along with the students. The students also devised several age-appropriate games for the residents, which saw enthusiastic participation. Prizes were distributed to the winners, bringing joy and excitement to the event. In addition to the activities, the NSS unit collected Rs. 14,000 from sponsors, which was handed over to the warden as a contribution to support the residents. The students and Program Officers returned with a sense of fulfillment, feeling that the spirit and happiness of Onam had truly descended upon them.





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1.10 Teachers' Day Celebration

Date: 5th September 2023

The NSS volunteers of The Cochin College undertook a special initiative to honor their teachers on Teachers' Day, 5 September 2023. They custom-made cards for each teacher in the college, a Herculean task accomplished over a week-end. On the day, the volunteers visited each department and handed over the cards along with a bar of chocolate to each teacher, expressing their gratitude and appreciation. The Principal was honored with a golden shawl, the customary mode of recognizing a person of accomplishment and achievements. This thoughtful gesture made the teachers feel truly special and appreciated on their dedicated day.



1.11 World Preservation/Ozone Day

Date: 15th September 2023

As part of the observation of World Preservation Day on 15 September 2023, the NSS volunteers of The Cochin College participated in a banner beautification event at Marine Drive, Kochi. Fifteen volunteers took part in this initiative, contributing their artistic skills to create and beautify banners aimed at raising awareness about environmental preservation and the importance of conserving natural resources. This event highlighted the commitment of the NSS unit to promoting environmental sustainability and community involvement.





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1.12 Beach Cleaning and Wall Painting for Swachhata Mission

Date: 16th September 2023

On 16 September 2023, the NSS volunteers of The Cochin College participated in a beach cleaning session organized by the Indian Swachhata Mission on Saturday morning. In the afternoon, they continued their efforts by cleaning and painting figures, motifs, and messages of the Swachhata Mission on a stretch of wall assigned to them for this purpose. Despite the persistent drizzle, which added challenges to the process, the volunteers remained upbeat and dedicated to their task. Their hard work and enthusiasm resulted in a beautifully cleaned and painted wall, reflecting their pride and commitment to the Swachhata Mission. NSS Program Officers Mr. Renjith S and Dr. Soney Bhageeradhan supervised and participated in the activities, ensuring the successful completion of the tasks.



1.13 Selection Orientation for First Year Volunteers

Date: 27th September 2023

A Selection Orientation for the first-year volunteers was held on 27 September 2023 at the seminar hall from 12.45 pm to 1.45 pm. This session was organized to introduce the new volunteers to the NSS unit's activities, goals, and expectations. The orientation aimed to inspire and prepare the first-year students for their roles and responsibilities within the NSS unit.





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1.14 Gandhi Jayanti week observance

Date: 02nd October 2023

The NSS unit at The Cochin College actively participates in the observance of Gandhi Jayanti week. This celebration typically includes various activities aimed at promoting the values and teachings of Mahatma Gandhi. Some of the activities organized by the NSS unit during this week include: Cleanliness Drives and Awareness Campaigns.



1.15 Swachhata Hi Seva Campaign at Raksha Special School

Date: 4th October 2023

On 4th October 2023, as part of the Swachhata Hi Seva campaign, 54 NSS volunteers from The Cochin College participated in a vigorous cleaning campaign at Raksha Special School and its vicinity. The program aimed to make the school and its surroundings safe and clean, deterring objectionable social elements. The event was attended by a sub-inspector and the ward councillor, who addressed the gathering, emphasizing the importance of cleanliness and community service.





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1.16 Pre-Orientation and Campus Cleaning Session

Date: 7th October 2023

On 7th October 2023, a pre-orientation session was organized for the first-year recruits of the NSS unit at The Cochin College. During this session, the Program Officers and four volunteer secretaries addressed the new volunteers, initiating them into the values and principles of the NSS creed. The volunteer secretaries taught the recruits the NSS song and various NSS claps, fostering a sense of unity and enthusiasm among the new members. Following the orientation, the first-year volunteers participated in an energetic campus cleaning session, demonstrating their commitment to the NSS values of service and community engagement.



1.17 Beach Cleaning at Fort Kochi in Association with NETFED

Date: 13th October 2023

On 13th October 2023, 40 NSS first-year volunteers and the two Program Officers of The Cochin College participated in a beach cleaning drive at Fort Kochi organized by NETFED. The cleanup session was scheduled for the afternoon, and the first-year volunteers were excited about their first external outdoor program, made even more special by the caps and jerseys handed out to them. Before the drive began, personnel from the Coast Guard addressed the volunteers, emphasizing the importance of keeping beaches clean and the impact of plastic pollution. The volunteers enthusiastically filled their bags with plastic waste, gaining a full awareness of the enormity of the problem caused by irresponsible human behavior regarding garbage disposal. This hands-on experience underscored the significance of their efforts in environmental conservation.





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1.18 NSS Room Cleaning and Painting

Date: 18th October 2023

On 18th October 2023, a handpicked group of NSS volunteers undertook the task of cleaning, whitewashing, and beautifying the NSS room in preparation for the first-year orientation program scheduled to commence on 20 October 2023. The volunteers worked diligently to transform the room, with the walls blossoming with their artistic outpourings. Their efforts ensured that the NSS room was not only clean and fresh but also vibrant and welcoming for the upcoming orientation program.



1.19 Orientation Camp for First Year NSS Volunteers

Dates: 20-21 October 2023 Aarambam 2K23

The two-day orientation program for first-year NSS volunteers, titled Aarambam 2K23, began on 20 October 2023 with a welcome speech by Program Officer Mr. Renjith S. The Principal, Dr. M. Geetha, delivered the presidential address, followed by an inspiring inaugural address by the MGU NSS Coordinator, Dr. E.N. Sivadasan. Dr. Soney Bhageeradhan, NSS P.O., proposed the vote of thanks.

Day 1

The ice-breaking session focused on Life Skills and was conducted by Ms. Divya Ramakrishnan. In the afternoon, Fr. Eldhose K Joy led a session introducing NSS, its aims, objectives, and endless possibilities.

Day 2

The morning session of Day 2 was handled by Dr. Thomas Varghese, NSS Program Officer at Bharatmata College. The afternoon session was conducted by Dr. Manju Subramanian, former NSS P.O. of The Cochin College. Additionally, four former volunteer secretaries addressed the first-year volunteers, providing them with a firm grounding in the ethics and spirit of the NSS.





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1.20 Nature Education Camp at Idukki Wildlife Sanctuary

Dates: 25-27 October 2023

The NSS unit of The Cochin College organized a three-day residential nature education camp at the Idukki Wildlife Sanctuary from 25th to 27th October 2023. The group comprised 37 students (26 girls and 11 boys) and two Program Officers.

Camp Activities

Evening Sessions

In the evenings, talks were organized by the forest department aimed at presenting facts and sensitizing students about the need to conserve forests and wildlife. These sessions provided valuable insights into the importance of environmental preservation.

Forenoon Sessions

The forenoon sessions were devoted to forest treks. Forest department officers guided the students, instructing them about the unique flora and fauna of the Idukki Wildlife Sanctuary. These treks offered hands-on learning experiences and deepened the students' understanding of the natural ecosystem. The volunteers returned with a renewed sense of responsibility towards the environment and a deeper appreciation for the natural world around them.



1.21 Vayojanotsavam: A Day for Senior Citizens

Date: 1st November 2023





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On 1st November 2023, 20 first-year volunteers from The Cochin College participated in Vayojanotsavam, a special day dedicated to senior citizens, organized by the Cochin Corporation at Town Hall near North Metro Station. The volunteers assisted with various tasks and actively participated in the cultural activities. They were particularly happy dancing and singing with the senior citizens, creating a joyful and memorable experience for all. The day-long program extended from 9.30 am to 3.30 pm, providing ample time for interaction and engagement between the young volunteers and the elderly participants.



1.22 Malayala Bhasha Vaaracharanam

Dates: November 3 - 13

The NSS unit of The Cochin College, in collaboration with the college library and the Department of Malayalam, organized a week-long Malayala Bhasha Vaaracharanam program from November 3rd to 13rd. The aim was to encourage the use of the Malayalam language and create an engaging and lively atmosphere around it.

Activities

Throughout the week, various competitions were held, including:

1. Quiz
2. Essay writing
3. Elocution
4. Identifying the person
5. Recitation
6. Tongue twister competitions

These activities were designed to promote enthusiasm and interest in the Malayalam language among the students.

Concluding Event

The program concluded with a lecture on "Man, Language, and Nature" by Dr. Tom C. Thomas, Assistant Professor, Department of English, S.H. College, Thevara. This lecture provided insightful perspectives and was a fitting end to the week-long celebration of the Malayalam language.





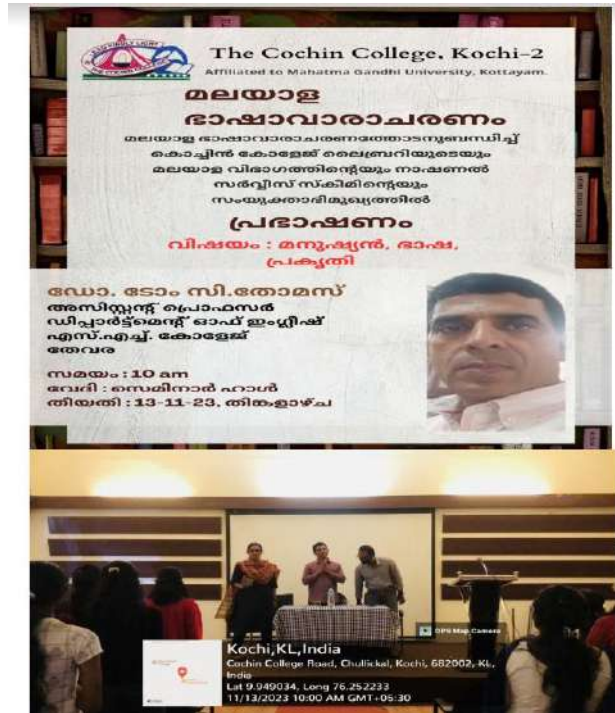
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1.23 Malinya Muktha Keralam Nava Keralam Training Program

Date: 18th November 2023

On 18th November 2023, NSS volunteer secretaries Francis Savio and Afeefa K.N. attended the training program for Malinya Muktha Keralam Navakeralam at Ernakulam Town Hall. This program aimed to equip participants with the knowledge and skills needed to contribute effectively to the Malinya Muktha Keralam Navakeralam initiative, focusing on creating a cleaner and greener Kerala.



1.24 Constitution Day

Date: 26th November 2023

The NSS unit at The Cochin College actively participates in the observance of Constitution Day on November 26th of each year, dedicating the day to honouring and educating about the Indian Constitution. Activities typically include a group reading of the Preamble to reaffirm commitment to constitutional values, educational seminars and workshops on the history, significance, and key aspects of the Constitution.





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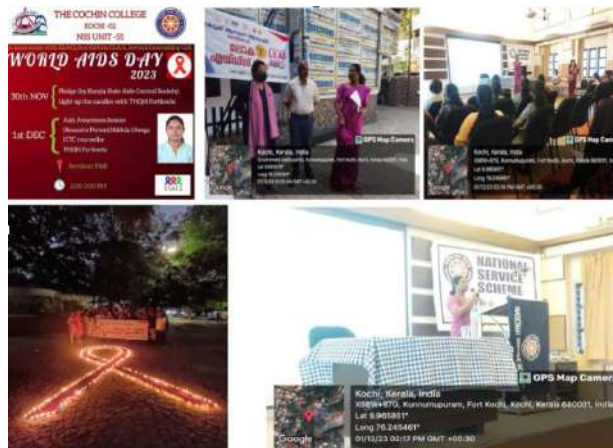


1.25 AIDS Day Observance

Date: 01st December 2023

AIDS Awareness Rally: The NSS unit in association with THQH, Fort Kochi organized an AIDS Awareness Rally at Fort Kochi beach on 30th November 2023.

AIDS Awareness Session: The NSS unit organized an AIDS Awareness Session for the volunteers in the seminar hall on 01st December 2023. The ICTC counsellor Ms. Nikhila Divega was the resource person.



1.26 NSS Adventure Camp

03-12 January 2024 Second year NSS volunteer, Francis Savio got selected for the NSS Adventure Camp held at Atal Bihari Vajpayee Institute of Mountaineering, Dharamsala.





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1.27 Sneharaamam Project

Stage 1

Date: 8th January 2024

The NSS unit of The Cochin College initiated Stage 1 of the Sneharaamam project near Koovapaadam bus stand on 8th January 2024. Despite the first-year students having their exams, the second-year volunteers eagerly participated, exemplifying the NSS motto "Not me, but you." The volunteers diligently cleaned the area, removing plastics and other trash from the ground. This effort highlighted the importance of responsible waste disposal and the impact of mindless littering. The commitment and enthusiasm of the volunteers were commendable, earning them well-deserved NSS long claps.



Stage 2

Date: 10th January 2024

Stage 2 of the Sneharaamam project took place on 10th January 2024. Sneharaamam aims to transform neglected spots in the city, which often become sites for irresponsible garbage disposal, into sustainable gardens where people can rest and relax. In this phase, a team of boys worked together to plant cuttings, shoots, and seedlings brought from home. Their efforts contributed to the creation of a green, welcoming space, embodying the spirit of the project and promoting environmental sustainability.





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1.28 Pacha Thuruthu Project in Collaboration with Cochin Corporation

15th January 2024

On 15th January 2024, the NSS unit of The Cochin College, in collaboration with the Cochin Corporation, undertook the Pachathuruthu project in Wards 8 and 9. This initiative focused on planting trees in areas prone to irresponsible garbage disposal, with the aim of creating natural deterrents against waste accumulation.

Activities

Tree Planting: The volunteers planted 5 Ashoka trees, 5 Ilanji trees, and 10 Arya Vepu trees in Wards 8 and 9.

Greening Effort: The project aimed to transform neglected spots into green spaces, promoting environmental sustainability and cleanliness. The Pachathuruthu project not only enhanced the aesthetic appeal of these wards but also served as a strong deterrent against the piling up of garbage, reinforcing the importance of responsible waste disposal and environmental conservation.



1.29 Nutrition Day Competitions Held by the Health Department

16th January 2024

On 16th January 2024, the NSS team of The Cochin College participated in various events commemorating Nutrition Day, organized by the Department of Health at St. Thomas Moore Church Hall, Palluruthy.

Achievements

Quiz Competition: Aparna Satheesh won the title of Nutrition Warrior by excelling in the quiz competition.

The participation and success of the NSS team in these events highlighted their commitment to promoting health and nutrition awareness within the community.





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1.30 Palliative Care Day

17th January 2024

To commemorate Palliative Care Day, which was on 15th January, the NSS volunteers of The Cochin College spent a day at Good Hope Care Home on 17th January 2024. The volunteers were asked to clip the nails of the residents, which had grown long and cumbersome. They went above and beyond by providing haircuts and shaves, making it a complete grooming session.

Volunteer Participation

The second-year volunteers, demonstrating their dedication and compassion, participated for the fourth time after their special camp. They undertook the grooming endeavour wholeheartedly and with love, never once showing any manner of distaste.

Acknowledgment

The sister in charge of the home spoke highly of the volunteers, praising their dedication and kindness. She remarked that helping a person in need is akin to helping God, and that the volunteers were beloved by the Almighty for their selfless service.



1.31 Republic Day Celebration

26th January 2024

The NSS unit of The Cochin College celebrated the nation's Republic Day on 26th January 2024.

Activities





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Flag Hoisting: The celebration began with the hoisting of the national flag by the College Vice Principal, Dr. Rishimon P.R.

Republic Day Speech: Following the flag hoisting, a Republic Day speech was delivered, highlighting the significance of the day and the values of the Republic.

Republic Day Quiz: An open Republic Day quiz was organized by the volunteers, engaging participants in a spirited competition and testing their knowledge about India's history and constitution.

The celebration was a meaningful and patriotic event, reflecting the NSS unit's commitment to national pride and civic engagement.



1.32 Gandhi Samadhi Day

30th January 2024

The NSS unit of The Cochin College observed Mahatma Gandhi's Martyrs Day on 30th January 2024 at the Gandhi Statue near Koovapadam Market.

Activities

Cleaning Drive: The volunteers conducted a cleaning drive around the Gandhi Statue, ensuring the surroundings were neat and tidy as a mark of respect to the Father of the Nation.

This observance was a tribute to Mahatma Gandhi's legacy, reflecting the NSS unit's dedication to community service and cleanliness.





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1.33 National Youth Day Celebration

5th February 2024

The NSS unit of The Cochin College celebrated National Youth Day on 5th February 2024.

Inauguration and Keynote Speech

The celebrations were inaugurated by Ms. Nandini Nair IRS, Income Tax Joint Commissioner, Cochin, who also delivered the keynote speech. Her speech emphasized the role of youth in nation-building and inspired the volunteers to contribute positively to society.

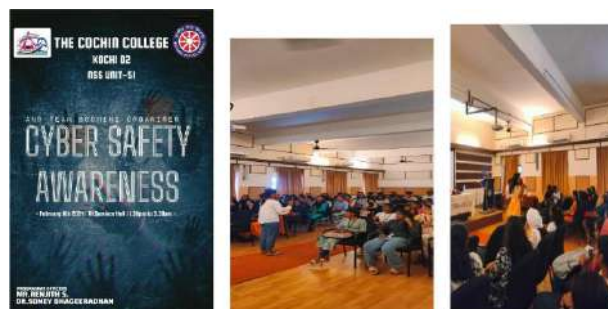
The event highlighted the importance of empowering young people and encouraged them to take active roles in their communities.



1.34 Cyber Awareness Session

8th February 2024

On 8th February 2024, the NSS unit of The Cochin College organized a Cyber Awareness program for volunteers in association with Team Bodhini, Ernakulam. The session, coordinated by NSS Program Officers Mr. Renjith S and Dr. Soney Bhageeradhan, aimed to educate volunteers about the importance of cyber safety, the risks associated with digital platforms, and best practices for protecting personal information online. This informative event provided valuable insights into maintaining cybersecurity in the digital age.



1.35 Women's Day Celebration

08th March 2024

International Women's Day was celebrated as a collaborative effort of NSS, the Women's Guidance Cell, and IQAC through the event, titled "FemmeFury". The highlight of the celebration was the felicitation of students who partic-





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ipated in a remarkable demonstration of Yoga and Kalari-“Veerangana 2024”, organized under the banner of DakshinaBharatha Vanitha Kalari. Following the felicitation ceremony, there was a captivating demonstration by the students, further showcasing their proficiency in Yoga and Kalari.



1.36 Anti-Drug Campaign

13th March 2024

The NSS unit and College Library of The Cochin College, in association with the Kochi City Police, organized “Unary,” an Anti-Drug Awareness Campaign for the first-year NSS volunteers on 13th March 2024. This campaign aimed to educate and sensitize the volunteers about the dangers of drug abuse and the importance of staying drug-free.



1.37 NSS 7 Days Residential Camp

ST. XAVIER'S PUBLIC SCHOOL, KANDAKKADAVU
25 to 31 December 2023

Camp Activities Overview

1.37.1 Daily Routine:

1.37.2 Physical Exercise:

Each morning, physical exercise sessions were conducted by Amerzon Louis, Physical Education Teacher at St. Mary's School, Chellanam.





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1.37.3 Community Service:

Volunteers engaged in daily community service activities within the St. Xavier's Public School campus.



1.37.4 Educational Sessions:

1.37.5 Financial Literacy:

Dr. Liance Mathew led daily discussions on financial literacy.

1.37.6 Digital World:

Dr. Paulbert Thomas presented sessions on the digital world.

1.37.7 Decision Making:

Mr. Tom Pious facilitated discussions on effective decision-making.

1.37.8 Theatre Acting:

Rajesh Sharma conducted workshops on theatre acting.

1.37.9 Student Seminars:

Each day included student seminar presentations aimed at enhancing presentation skills for all volunteers.





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<p>THE COCHIN COLLEGE KOCHI -02 NSS UNIT -51</p> <p>SPECIAL CAMP <i>Discussion</i></p> <p> Rajesh Sharma Cine Artist & Theatre person</p> <p>School Auditorium ST. Xavier's Public School Kandakkadav, Chellanam</p> <p>2.00-3.30pm 28/12/2023</p>	<p>THE COCHIN COLLEGE KOCHI -02 NSS UNIT -51</p> <p>SPECIAL CAMP <i>Discussion</i></p> <p> Dr. Paulbert Thomas Assistant Professor The Cochin College Kochi</p> <p>School Auditorium ST. Xavier's Public School Kandakkadav, Chellanam</p> <p>2.00-3.30pm 29/12/2023</p>
<p>THE COCHIN COLLEGE KOCHI -02 NSS UNIT -51</p> <p>Special Camp <i>DISCUSSION</i></p> <p> Mr. TOM FIOUS Assistant Professor St. Joseph College of Engineering, Pala</p> <p>School Auditorium ST. Xavier's Public School Kandakkadav, Chellanam</p> <p>2.00-3.30pm</p>	<p>THE COCHIN COLLEGE KOCHI -02 NSS UNIT -51</p> <p>SPECIAL CAMP <i>Discussion</i></p> <p> Dr. Liance Mathew Assistant Professor The Cochin College Kochi 02</p> <p>School Auditorium ST. Xavier's Public School Kandakkadav, Chellanam</p> <p>2.00-3.30pm 30/12/2023</p>

1.37.10 Special Activities:

1.37.11 Beach Cleaning Drive:

A drive was organized at Kandakkad Beach to promote environmental cleanliness.

1.37.12 Waste Management Awareness Rally:

A rally was held across wards 17, 18, and 19 in Chellanam Panchayat to raise awareness about waste management.





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1.37.13 Honoring Ambedkar Award Winners:

Josy Kandakkad and Pauly Kandakkad were honored for their contributions.

1.37.14 Shooting Session:

Bindhu Sujin, Kerala State 10 25 Meter Rifle Championship Winner 2023, introduced participants to shooting.

1.37.15 Self-Defense Session:

Mareena Gurukkal, a martial arts trainer, conducted a session on self-defense.



1.37.16 Waste Management Survey:

Volunteers participated in a survey to assess waste management practices.

1.37.17 Drug Awareness Rally:

A rally was conducted to promote drug awareness among the community.

1.37.18 Organic Vegetable Cultivation:

Participants engaged in growing vegetables using organic grow bags.

1.37.19 Contributions:

1.37.20 Reverse Osmosis Water Purifier:

As part of its social responsibility, the NSS unit of Cochin College donated a Reverse Osmosis water purifier to St. Xavier's Public School.





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This comprehensive camp not only provided valuable learning experiences and community service opportunities but also contributed positively to the local environment and community.

Conclusion of NSS Activities for the Academic Year 2023-2024

The academic year 2023-2024 has been a remarkable period for the NSS unit of The Cochin College, marked by a series of impactful and diverse activities. From celebrating national events like Republic Day and Independence Day to participating in environmental initiatives such as the Pachathuruthu and Sneharamam projects, our volunteers have demonstrated unwavering commitment to community service and national pride.

Our efforts in organizing educational programs, such as the Cyber Awareness session and the Anti-Drug Campaign "Unarv," have equipped students with essential knowledge and skills for personal and societal development. Additionally, the nature education camp at Idukki Wildlife Sanctuary and various other outreach programs have fostered a deeper sense of environmental responsibility and social awareness among the volunteers.

The involvement in health-related initiatives, including the Nutrition Kit Distribution for TB patients and participation in Nutrition Day competitions, underscores our dedication to public health and well-being. Moreover, our cultural and community engagement activities, such as the Onam Celebrations at Good Hope Old Age Home and the Vayojanotsavam for senior citizens, highlight the NSS unit's commitment to fostering a compassionate and inclusive community.

Through these diverse activities, our volunteers have embodied the NSS motto "Not Me, But You," consistently prioritising the needs of the community and contributing positively to society. The dedication and enthusiasm shown by our volunteers and Program Officers, Mr. Renjith S and Dr. Soney Bhageeradhan, have been exemplary, ensuring the successful execution of all initiatives.

As we conclude this academic year, we look forward to continuing our mission of service, leadership, and community development in the years to come, inspired by the achievements and experiences of 2023-2024.

2 EXTENSION ACTIVITIES THROUGH DEPARTMENTS, CLUBS AND COMMITTEES

2.1 Department of Zoology

2.1.1 SHARP Project:

Students of the Department of Zoology, The Cochin College volunteered in a Resource Recovery and Recycling Drive organised by Plan@earth in association with KMRL(Kochi Metro Rail Limited) from 5th June 2023, to 9th June 2023. This initiative aimed to promote environmental sustainability through effective waste management practices. The Zoology students played a crucial role in the collection, sorting, and categorising of recyclable materials, as well as educating the community on the importance of recycling and proper waste disposal at Aluva, Kalamassery, JLN Stadium, MG Road and Vytilla Metro Stations.





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2.1.2 ECHO Project:

Four students and one faculty member from the Department of Zoology, The Cochin College participated in the ECHO Bootcamp on 22nd and 23rd September 2023, at Christ University Nodal Office, Thiruvananthapuram. ECHO 2023 is a platform designed to empower young individuals to harness their innovation and entrepreneurial skills to drive positive change and create a significant environmental impact. Participants were tasked with identifying an environmental problem and devising an innovative solution that would benefit the community. This year's theme, "Innovate to create resilient cities and urban communities," encouraged the attendees to focus on developing solutions that enhance the resilience of urban areas, addressing issues pertinent to sustainable city living. The active involvement underscores their commitment to environmental stewardship and community development.



2.1.3 Zonal Zoo fest:

The Department of Zoology, The Cochin College in association with the Zoological Society of Kerala and co-funded by the DBT Star College Scheme, organized the Zonal Zoo FEST 2023 on 20th October 2023 at The Cochin College. The event saw participation from 106 students representing seven colleges: The Cochin College, St. Teresa's College Ernakulam, St. Albert's College Ernakulam, Maharaja's College Ernakulam, Bharata Mata College Ernakulam, Sacred Heart College, and St. Xavier's College Vaikom. The Fest featured nine different competitions for undergraduate students, fostering a spirit of academic and extracurricular excellence. ZOOFEST 2023 was inaugurated by Prof. Dr. Mohan Joseph Modayil, Fisheries Adviser Consultant, and Senior Adviser to the Government of Andhra Pradesh, who also engaged with students about career opportunities in the Life Sciences. The highlight of the event was The Cochin College winning The A K Prema ever-rolling trophy for accumulating the highest points in the competitions, underscoring the college's commitment to academic and extracurricular distinction.





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2.1.4 DROP (Drive to Recover Ocean Plastics) :

On 31st January 2024, students from the Department of Zoology along with the Bhoomitrasena Club of The Cochin College performed an impactful street play at Munambam Harbour, Kochi, to raise awareness about Plan@earth's 'DROP: Drive to Recover Ocean Plastics' project. Through their compelling performance, they highlighted the critical issue of ocean plastic pollution and the urgent need for collective action to address it. Additionally, they created stunning wall art to further educate the public about the detrimental effects of plastic on marine environments and to inspire community involvement in saving our oceans from plastic pollution. Their efforts were met with great appreciation from the local community, underscoring the importance of environmental conservation.





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2.1.5 Citizen Science Program (REVIVAL) (Rehabilitation of Vibrio Infested Waters of Vembanad Lake- Pollution and Solution):

In a bid to promote citizen science initiatives, the Central Marine Fisheries Research Institute (CMFRI) launched the REVIVAL project (Rehabilitation of Vibrio Infested Waters of Vembanad Lake - Pollution and Solution). This multi-institutional research project invited college students and the public to participate in optical mapping of the Vembanad Lake. The project's objectives include understanding the extent of pathogenic Vibrio pollution, identifying their reservoirs in the ecosystem, mapping the distribution of Vibrio carriers using remote-sensing techniques, and developing forecast models to anticipate microbial infection hotspots. Data collection was facilitated using a Secchi disc, a simple hand-held device to measure water turbidity, and a mobile app named TurbAqua was developed for uploading the data. On 8th November 2023, 32 first-year UG students from the Department of Zoology, The Cochin College attended an orientation session for the Citizen Science Program organised by Ms. Ancy C Stoy, a Research Scholar at CMFRI, where Secchi disks were distributed. The students also underwent a comprehensive training session at CMFRI on 24th January 2024, equipping them with the skills necessary to contribute effectively to this important environmental initiative.



2.1.6 Nature Education Camp: Silent Valley National Park

First-year B.Sc Zoology students, in association with the Nature Club, participated in a three-day nature camp from 16th to 18th November 2023, at Silent Valley National Park, Mannarkkad, and Attappadi. Funded by the Kerala Forests Wildlife Department and co-funded by the DBT Star College Scheme, the camp included bird-watching walks, where notable sightings such as the Malabar Trogon, Nilgiri Wood Pigeon, and the Great Indian Hornbill were observed. A session by forest officials emphasized the "Leave No Trace" policy, and a visit to the Attappadi landscape showcased the barren lands resulting from deforestation and improper land use. This highlighted the importance of sustainable practices to prevent ecological disasters. During the interactions with the Silent Valley tribal community, the tribes shared their deep connection with the forest and their traditional knowledge of the ecosystem which has been passed down through generations. It underscored the significance of preserving both the natural environment and the cultural heritage of the region.





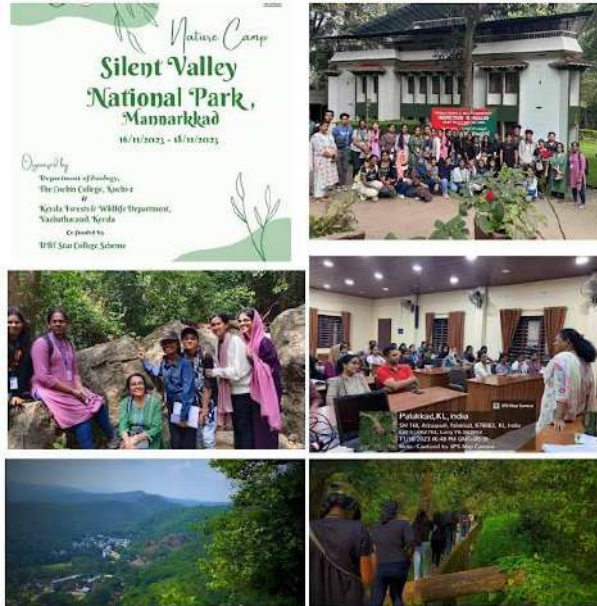
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2.1.7 Institute Visit:

On 2nd February 2024, the final year B.Sc students from the Department of Zoology, The Cochin College visited the Central Marine Fisheries Research Institute (CMFRI) on the occasion of its 77th Foundation Day. This visit provided the students with a valuable opportunity to explore the advanced research labs and the museum at CMFRI. The experience offered the students firsthand insight into the various research activities and technological advancements in marine fisheries. It was an enriching educational experience that allowed them to understand the practical applications of their studies and gain deeper knowledge about marine biodiversity and fisheries science.



2.1.8 Student's Exhibition cum Sale of Vermicompost at Udyami Bazar:

The final year students of the Department of Zoology were given training in vermicomposting on 13th December 2023. Following this training, the students prepared high-quality vermicompost, which was showcased and sold at the Entrepreneurs Market (Udyami Bazar) during the IIC regional meet held at CUSAT, Kalamassery, on 16th January 2024. This initiative not only provided the students with practical experience in sustainable agricultural practices but also offered them a platform to demonstrate and market their products, fostering entrepreneurial skills and environmental awareness.





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2.2 Department of English

2.2.1 English Enhancement Programme:

As part of an extension activity, teachers and Post Graduate students from the Department of English at The Cochin College organized an English Enhancement Programme for Anganwadi mothers and teachers on 12th March 2024. The initiative aimed to address common pronunciation mistakes made by native Malayalee speakers, providing tailored instruction to help improve their English language skills. In addition to the focused training sessions, the department also contributed valuable educational materials to the Anganwadi library, enhancing the resources available for both teachers and mothers. This program not only supported the participants in developing better communication skills but also reinforced the college's commitment to community engagement and educational development.



2.3 Department of Economics

2.3.1 Served as Judge:

Mr. Renjith S, Assistant Professor of History, The Cochin College served as a judge at the Kerala State Social Science Fest held in Thiruvananthapuram on December 1-2, 2023. This event gathered students from across the state to showcase their knowledge and projects in various social science disciplines, promoting academic excellence and fostering a deeper understanding of social sciences among young minds.





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2.3.2 Motivation Class:

As part of the extension activity, Mr. Renjith S, Assistant Professor of History, The Cochin College conducted a motivational session for the inmates of Mattancherry Sub Jail on 23rd March 2024. The session, titled "Man and Social Life," focused on the importance of social connections and the role of individuals within society. It aimed to inspire and educate the inmates, providing them with valuable insights and fostering a sense of community and personal growth.

2.4 Department of Commerce

2.4.1 Swachh Bharat:

As part of its extension activities, the Department of Commerce at The Cochin College conducted a cleanup campaign on 5th October 2023 in alignment with the Swachh Bharat Abhiyan. The campaign focused on cleaning beaches and parks in and around Fort Kochi. This initiative aimed to promote environmental sustainability and cleanliness in public spaces, enhancing the beauty and hygiene of these areas. The active participation of students and faculty in this campaign not only contributed to a cleaner environment but also fostered a sense of community responsibility and awareness about the importance of maintaining public spaces.



2.4.2 Outreach Activity: Visit to Raksha Special School

As part of its outreach activities, the Department of Commerce, The Cochin College organized a visit to Raksha Special School. On 22nd August 2023, students and teachers from the department visited Raksha Special School in Mattancherry to celebrate Onam with the students, bringing joy and festivity to the occasion. Additionally, a fundraiser program, Diwali Sale, was held on 8th November 2023, where Chirams made by the students of Raksha Special School





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were displayed and sold at The Cochin College. This initiative aimed to support the special school's students, highlighting their talents and fostering a sense of community and inclusion. The combined efforts of celebration and fundraising significantly contributed to the well-being and support of the students at Raksha Special School.



2.4.3 Extension Activity: Career Opportunities in Commerce

On 12th October 2023, Dr. Lakshmisree R., Assistant Professor in the Department of Commerce, conducted an extension activity on Career Opportunities in Commerce for the higher secondary students of St. Sebastian's School, Thoppumpady. The session covered various career choices and job opportunities available to plus two commerce students, emphasizing the importance of selecting the right courses. It was an interactive session where students actively participated by asking queries about course selection and job prospects, receiving valuable guidance and insights from Dr. Lakshmisree.

2.5 Department of Physics

2.5.1 Tarang 2024:

The Cochin College Science and Quiz Club, in association with the Department of Physics and the Department of Electronics, organized THARANG-2024, National Science Day Celebrations during the last week of February. The programs included a science field visit to C-SiS CUSAT, expert classes, and lab visits. Approximately 30 students participated in the field visit, gaining valuable exposure and insights into scientific research and applications.





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2.6 Department of Botany

2.6.1 Visit to Old Age Care Home: Snehapoorvam

The Department of Botany, in association with the Department of Biochemistry and Biotechnology, organized an out-reach programme titled 'Snehapoorvam' on 19th December 2023. The event took place at Prateeksha Bhavan, an old age care home located in Edakochi. The programme aimed to foster a sense of community and provide support to the elderly residents. Students and faculty members engaged in various activities designed to bring joy and companionship to the senior citizens.



2.7 College Library

2.7.1 Books on Wheels:

Books are being delivered to homemakers in the Ninth Ward of the Cochin Corporation, thanks to a collaborative effort between the library of The Cochin College and the NSS unit. The flagging off ceremony took place on 17th Octo-





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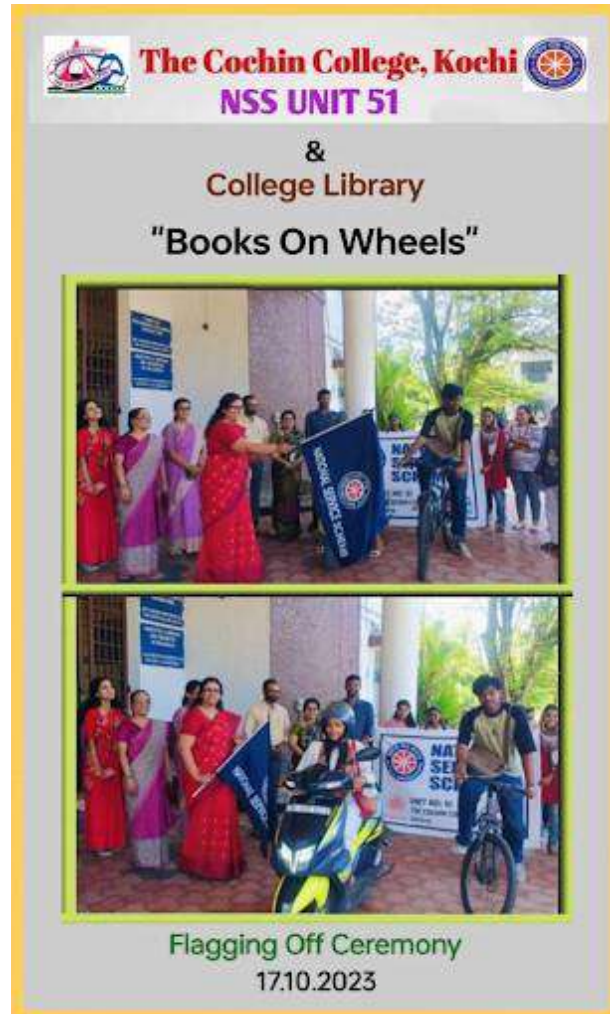
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ber 2023. Now in its second year, this popular project aims to promote literacy and provide easy access to educational resources for homemakers who may find it challenging to visit the library. By bringing books directly to their homes, the initiative encourages reading and continuous learning, enriching the lives of community members and fostering a culture of knowledge and education.





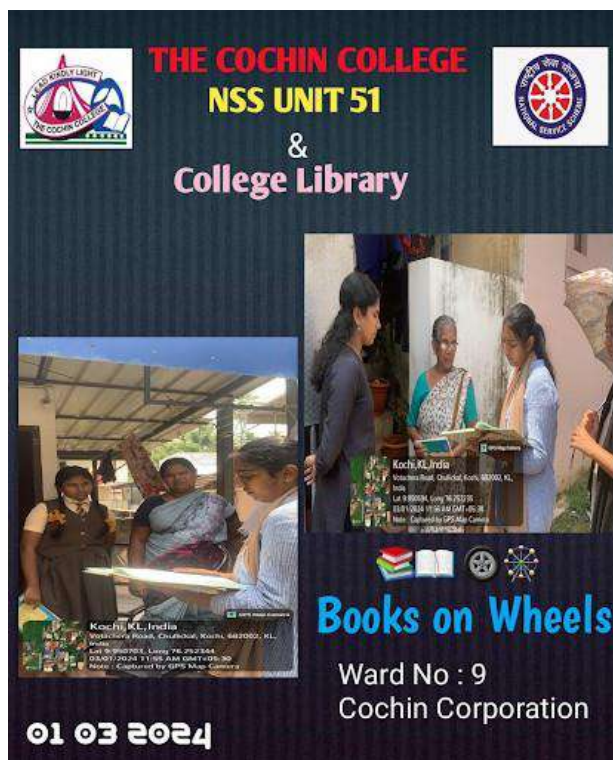
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2.8 Department of Chemistry

2.8.1 Awareness Class on the Abuse of Drugs:

On the International Day Against Drug Abuse and Illicit Trafficking, Department of Chemistry, in collaboration with the Anti-Narcotic Club of The Cochin College, organized an awareness class on 30th June 2023, for the high school students of EMGHS, Veli, Fort Kochi. The session aimed to educate young minds about the dangers of drug abuse and its adverse effects. Conducted by the students of II B.Sc Chemistry, the class featured interactive discussions, providing valuable insights and fostering an open dialogue on this critical issue. This initiative underscored the college's commitment to community outreach and its proactive role in promoting a drug-free society.





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2.8.2 Survey on Water Quality:

Students of the first and second year B.Sc Chemistry at The Cochin College conducted a comprehensive water quality analysis in approximately 50 houses of the adopted Ward 7 on 25th March 2024. This initiative aimed to assess the quality of water being used by the residents and to identify any potential contaminants that might pose health risks. The students meticulously collected water samples and performed various tests to evaluate parameters such as pH, turbidity, and the presence of harmful substances.





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2.9 Anti Narcotic Cell

2.9.1 Awareness Campaign:

In connection with the International Day Against Drug Abuse and Illicit Trafficking, the Anti-Narcotic Club of The Cochin College along with the Department of Chemistry conducted an awareness class on 30th June 2023 for the high school students of EMGHS, Veli, Fort Kochi. The session focused on the abuse of drugs and its adverse effects, aiming to educate young minds about the dangers of substance abuse. The class was conducted by the students of II B.Sc Chemistry, who interacted with the school students, providing valuable insights and fostering an open dialogue on this critical issue.



2.10 Nature Club

2.10.1 Nature Camp and Field Study:

Silent Valley National Park First-year B.Sc Zoology students, in association with the Nature Club, participated in a three-day nature camp from 16th to 18th November 2023, at Silent Valley National Park, Mannarkkad, and Attappadi. Funded by the Kerala Forests Wildlife Department and co-funded by the DBT Star College Scheme, the camp included bird-watching walks, where notable sightings such as the Malabar Trogon, Nilgiri Wood Pigeon, and the Great Indian Hornbill were observed. A session by forest officials emphasized the "Leave No Trace" policy, and a visit to the Attappadi landscape showcased the barren lands resulting from deforestation and improper land use. This highlighted the importance of sustainable practices to prevent ecological disasters. During the interactions with the Silent Valley tribal community, the tribes shared their deep connection with the forest and their traditional knowledge of the ecosystem which has been passed down through generations. It underscored the significance of preserving both the natural environment and the cultural heritage of the region.





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2.11 Bhoomitrasena Club

2.11.1 Awareness Campaign:

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2.11.2 International Peace G20 Youth Summit 2023:

The Cochin College was recognized as a "Peace League Institution" at the International Peace G20 Youth Summit 2023, held on 12th August at The Choice School, Tripunithura, Kochi, Kerala, South India. In association with the Bhoomitrasena Club, ten students from B.Sc. Zoology, along with Faculty in Charge Dr. Manju V. Subramanian, who was honoured as a Peace Ambassador, participated in the summit. Notably, Manu Mohan of 2nd B.Sc. Zoology actively took part in a panel discussion on "Gender Equality," contributing to the important dialogue on this critical issue. The recognition and participation underscore The Cochin College's commitment to fostering peace and promoting gender equality.



2.12 Awards and Recognition

