



**ST. XAVIER'S COLLEGE FOR WOMEN, ALUVA**  
REACCREDITED BY NAAC WITH A GRADE (CGPA 3.33)  
ISO 9001-2015 CERTIFIED

**BHOOMITHRASENA CLUB**  
**ANNUAL REPORT**  
**2020-2021**

**Bhoomithrasena Club (BMC Code Number EKM/111/09-10) Report of  
activities 2020-2021  
Contents**

**Day Observations**

1. World Environment Day June 5
2. Plastic bag free Day July 3
3. Dry Day October 2nd
4. Gandhi Jayanti October 2nd
5. Wildlife Week October 2nd-8th
6. Prevention of cruelty to animals- April
7. Earth Day April 22
8. Biodiversity Day May 22, 2021
9. Anti- Tobacco day 31/05/2021

**10. Memorial talk - Sundarlal Bahuguna**

**11. Essay Writing theme:** Contributions of Kerala in Environment conservation

**12. Home gardening**

**13. Biocomposting**

**14. Reuse/recycle Waste**

**15. Paristhithikam project maintenance**

- Distribution and Planting of sapling for **Vazhiyoorathanal**
- Cleaning of the waste land for planting

**16. Cloth bag and Paper Bag making and distribution**

**17. Awareness Lectures Organised**

**Environmental Projects involved**

- 18. Bird walk in the Hill Palace Museum Campus, Thripunithura**
- 19. Homestead biodiversity- Kerala Biodiversity Board**
- 20. Spider observation**
- 21. Earthworm observation**

**22. Environmental related webinar/talks attended by the club members**

**23. MOOC Course on Organic-Farming** conducted by MG University: 557 students registered

**24. List of club members who require certificate of participation**

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In the present scenario, it is more important to have a healthy and lush green environment. As COVID-19 continues with lockdowns and online classes the activities of the club were focused on each one's home and also awareness through virtual platforms. Competitions were: However online mode. Activities were both online and offline.

Members thought differently. And all skills on creativity, problem solving and altruism pave the way for a transformative resolution for an array of activities amidst the pandemic.

**DAY OBSERVATIONS**

**1. World Environment Day Theme:**

**Time for nature**

Various people have submitted their entries

**Objective of the Programme:** To spread the theme of world environment day. Time for Nature,' with a

focus on its role in providing the essential infrastructure that supports life on **Earth** and human development.

**Detailed description of the event:** As part of world environment day , various competitions conducted for school and college students thereby raising awareness on environmental issues.

**Outcome of the event/Evaluation by Program Coordinator:**

World Environment day is celebrated each year on 5th June. It gives an opportunity to think about our mother earth and find solutions and to showcase their talents by using fallen leaves which instead of burning can turn out into artwork .

**Brochure of the programme:**



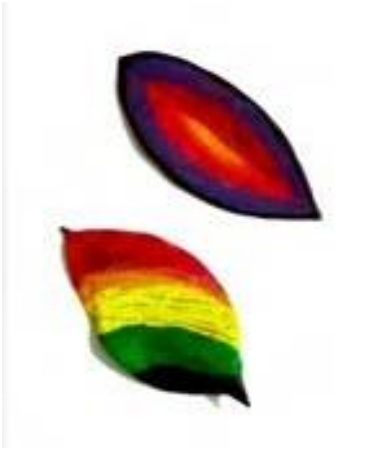
Leaf art/painting powerpointed competition and cloth bag design competitions

**Selected Entries**



**Mother Nature**

**Don't make trees rare, keep them with care.**



**The sun and the sands make the beach beautiful. Let us not throw plastics todamage the beauty of Beaches**



**Leaf art**



**Leaf art**

## 2. Plastic bag free Day July 3

**Objective of the programme:** To create awareness on the harmful effect of single-use plastic upon the environment. Plastic Bag Free Day is a global initiative that aims to eliminate the use of single-use plastic bags in the world

**Outcome of the event: Paper Carry bag making challenge with everyday newspaper.** We got more than 5000 paper bags last year. Which were further distributed to various vendors to reduce the use of plastic bags. We also could leave an impact on the young student community. They can demonstrate to the world that we do not need to rely on disposable **plastics** in our day today lives



**Clean the plastics that accumulate in the footpath channel and around you**





Clean the plastic covers and hand over to authorities



Replace Plastic with Cloth



Paper Bags and cloth bags ready for distribution



**Paper Bags and cloth bags distribution**

### **3. Dry Day October 2nd / Gandhi Jayanti October 2nd**

**Objective of the programme: Theme:** Gandhiji as an environmentalist. The theme was adapted to understand the role Gandhiji played in the conservation of nature.

Objective of observing a dry day is to clear mosquito breeding places like coolers, flowerpots, birdbaths, water containers, scrap, and stagnant water. The move aims to control vector-borne diseases.

**Outcome of the programme:** It was an opportunity to correctly express ideas, persuade and influence others by narrating the influence Gandhiji has made in their lives through his words and actions. It is far more valuable than knowledge.

Orators got an opportunity to understand the influence which he has created through his quotes like "The world has enough for man's need but not enough for man's greed!". We had participants from various schools and Colleges. Orator could influence the hearer by deeply understanding and gathering knowledge on the theme.

Observance of dry day raised the awareness on keeping the stagnant water clean at least weekly for the reduction of vector-borne diseases.



Mosquito breeding grounds can be eliminated at home by removing unused plastic pools, old tires or buckets by cleaning regularly .

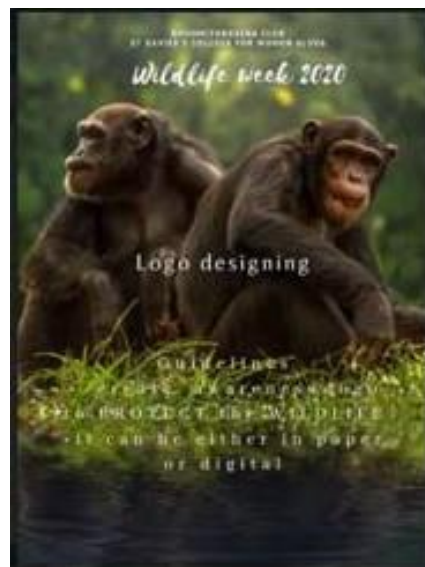


#### 4. Wildlife Week October 2nd-8th

**Objective of the programme:** Objective of the programme was to raise awareness through various activities to protect and preserve the flora and fauna of India. To make people aware of the need for protection and conservation of **wildlife**.

**Outcome of the programme:** Students from various levels participated in the programmes. Kerala University, St.Xavier's College. Sree Sankara College, MA college, College of agriculture, wayanad, MES Marampally, The Cochin College were few among them. It gave an opportunity to realise the importance to discuss and identify issues related to **wildlife** conservation and showcase various conservation awareness activities through competitions.





### Selected Designs /entries



### Selected entries of Logo Designing



Selected entries of Logo Designing



Selected Entries of Wildlife Photography



Selected Entries of Wildlife Photography

## 5. Prevention of cruelty to animals- April

**Objective of the programme:** Be the voice of your favourite animal. With this theme we intended to raise awareness to stop being cruel to the animals around us. The earth is what we all have in common. Not only us the large

animals but also the ecosystem and are necessary for the healthier

balance

**Outcome of the programme:** B.Sc. and M.Sc students from various colleges participated and expressed their view on their favourite animal and also shared how to protect them. Students from various colleges participated-The Cochin College, St. Xavier's College for Women, SNGIST college, SreeSankara College etc.



## 6. Earth Day April 22

**Objective of the activity:** Earth Day is all about educating people about conservation, protesting against climate change and global warming and encouraging volunteering for the good of the planet. An awareness video was created by the club members and uploaded in the college

youtube channel **Outcome of the activity:**

<https://www.youtube.com/watch?v=XYOppiiH6uo&t=19s>

## 7. Biodiversity Day May 22, 2021

**Objective of the activity:** To create awareness on nature through **Power point presentation Competition on the theme: "We are the Solution for nature"**.

**Outcome of the activity:** Inter Departmental PowerPoint Presentation Competition which provided a platform to showcase the environmental conservation activities held in each department. Emrin George & Megha Maria Lal were the student coordinators of the programme. It was a part of the five day refresher programme organised to revamp the club members, Detailed description covers in that area

## 8. Anti- Tobacco day 31/05/2021

**Objective of the activity:** To create awareness on the ill effects of tobacco consumption and thereby to quit the habit. World No Tobacco Day 2021 theme and campaign: Commit to Quit. The poster created as a campaign material was used widely to tell people the dangers of using tobacco.

**Outcome of the activity:** Posters created could make an impact on the social media and also gave an inspiration 'quit **tobacco** to be a winner'.



## 9. Memorial talk - Sundarlal

## Bahuguna

**Objectives of the programme:** To pay respect to the great Indian environmentalist and Chipko movement leader, the club made a memorial talk by a student representative.



**Outcome of the programme:** Sindra Soney the club member remembered all his activities and gave a briefing about the great personality **Sundarlal Bahuguna**

## 10. Essay writing

**Objectives of the programme:** To have a wide reading on the contributions of Kerala in Environment conservation thereby to raise a consciousness on what each one can do to nurture the nature

**Outcome of the programme:** Many students participated in the essay writing competition thereby we could accomplish the objective.

## 11. Home Garden Objective of the programme:

Home gardens can help reduce negative environmental impacts by promoting sustainable agriculture; reducing food transportation costs and reducing water runoff. Humans, plants and animals can all benefit from urban agriculture since it creates habitats and improves the ecology of the area.

To reduce the carbon footprint, to raise the culture of growing our own organic vegetables.

**Outcome of the programme:** The club provided various vegetables, plants and compost sale counters in the college campus. So that everyone could buy them in this pandemic situation without going to a nursery.









## 12. Biocomposting

### 13. Reuse/Recycle waste:

1. Competitions like leaf art, leaf painting gave such an opportunity to redesign nature.
2. Plastic bottles reused as pots in the garden
3. Paint buckets used as composting bins
4. Old shoes gave a nest to the birds-





Our contribution to nature			Our Contribution Of Nature		
 <p>Organic farming</p>	 <p>Using paper bags</p>	 <p>Reusing plastics bottle</p>	 <p>Who plant a tree, plant a hope for future</p>	 <p>Reuse the past, recycle the present, Save future</p>	 <p>Reuse the past, recycle the present, Save future</p>
<p><i>Oxygen as to breathe, so trees as to live</i> Done by, Nasla M Najeeb</p>			<p>By Akhila sathu</p>		





**SHOE BIRDHOUSE**

### **15. Paristhithikam cleaning maintenance and planting Outcome of the programme: A green lungs for the city**

Trees contribute to the environment by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil, and supporting wildlife. During the process of photosynthesis, trees take in carbon dioxide and produce the oxygen we breathe.

- Trees remove carbon dioxide from the atmosphere and reduce the greenhouse gas effect, all while providing us with **clean air to breathe.** ...
- Planting Healthy Air: Can Urban Trees Help Clean Up Pollution?
  - o pollution associated disorders like asthma
  - o Can reduce Green house gases
- **Planting trees is a cost-effective way to tackle urban air pollution,** which is a growing problem for many cities.
- Together we share a responsibility to be good stewards of our planet, and **it's the small things that can make some of the biggest differences!**
- Appreciate your trees! Plant them, gift them, and protect them. Let's try to get as many trees into the world as possible!



## വഴിയോരത്തണൽ ഒരുക്കുന്നു

**ആലുവ:** ജനശ്രീ സുസ്ഥിര മിഷൻ ചുർണിക്കര മണ്ഡലം കമ്മിറ്റിയും സെന്റ് സെവ്യർസ് കോളജ് ഭൂമിത്രസന ക്ലബും ചേർന്ന് ചുർണിക്കര പഞ്ചായത്തിൽ വഴിയോരത്തണൽ ഒരുക്കുന്നു. പദ്ധതിയുടെ മണ്ഡലതല ഉദ്ഘാടനം യുഡിഎഫ് ജില്ലാ ചെയർമാൻ എം.ഒ. ജോൺ ഫലവ്യക്തമാക്കുന്നതു നിർവഹിച്ചു. ചടങ്ങിൽ രാജേഷ് പുത്തനങ്ങാടി അധ്യക്ഷത വഹിച്ചു. ബാബു കൊല്ലംപറമ്പിൽ, ബാബു പുത്തനങ്ങാടി, ലത്തീഫ് പൂഴിത്തറ, കെ.കെ ജമാൽ, കെ.എസ്. മുഹമ്മദ് ഷൈക്ക്, ലിസി സെബാസ്റ്റ്യൻ തുടങ്ങിയവർ പങ്കെടുത്തു.



Thu, 25 June 2020

<https://epaper.deepika.com>





## 16. Cloth bag/Paper bag making and distribution

**Objective and outcome :** Plastic bags use natural gas and crude oil to manufacture, they're non-biodegradable. Whereas cloth bags aren't so. We can make cloth and paper bags from the materials available at our home itself thereby reducing carbon footprint.

With this aim students made paper bags from the daily newspaper available at our own houses. Cloth bags were also stitched by getting cut pieces from tailoring shops and also with their own old cloth materials.



Picture shared earlier

in plastic bag free day also

## 17. Awareness Lectures Organised

### Five Day Refresher Programme : Revive with Nature

**ST. XAVIER'S COLLEGE FOR WOMEN ALUVA**  
Bhoomithrasena club Refresher programme  
Revive with Nature 27-31 May 2021

**DAY 1- 27/05/2021**  
4 P.M.  
**BE NATURE: POSITIVE**

Dr. Abhilash R Assistant Professor,  
PG Department of Zoology,  
Christian College, Chengannur

**DAY 2- 28/05/2021**  
4 P. M.

Mr. Sujith Karun,  
District Coordinator,  
Haritha Kerala Mission Collectorate,  
Ernakulam

**DAY 3- 29/05/2021**

Dr. Saumi Mary Varghese  
Assistant Professor English,  
St.Xavier's College for women Aluva

**DAY 4- 30/05/2021**

PowerPoint submission  
Theme:  
I am the solution for Nature.

Present your contribution to  
resolve environmental issues  
and suggest activities for a  
green campus and green  
home

**DAYS- 31/05/2021**

PowerPoint presentation and  
evaluation Valedictory talk

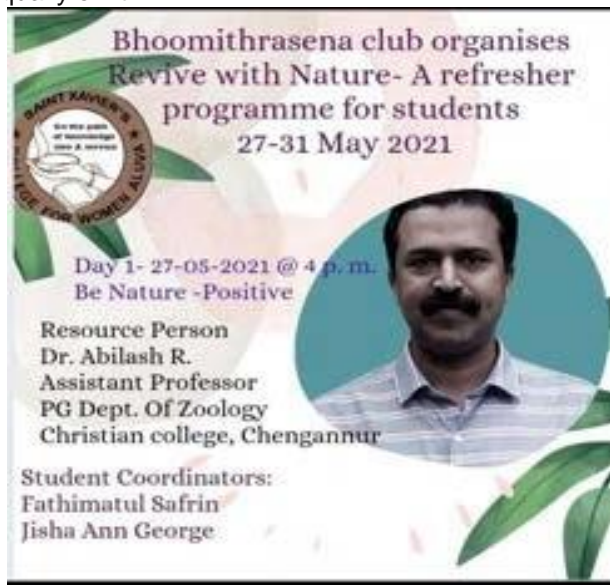
**PLATFORM: GOOGLE MEET**

**Detailed description of the event:** The Bhoomithrasena club of St. Xavier's College For Women, Aluva organized 'Revive With Nature ' 5 day refresher program for students. 27/05/2021, the 1<sup>st</sup> day refresher program started at 4.00 pm and it was coordinated by Fathimathul Safrin and Jisha Ann George. The class was led by Dr. Abilash R, the Assistant Professor of PG Department of Zoology in Christian College, Chengannur on the topic 'Be Nature- Positive'. The program began with the prayer song by Reenu Maria and the welcome speech delivered by Evelin Rose Denny. The Coordinator of Bhoomithrasena club of our college Dr. Aneymol V S invited the resource person to share the information regarding the topic. Sir wanted the webinar to be in an interactive manner. So he asked us to name the greatest poets of Kerala by knowing their works in Malayalam poems. He also told an inspiring story of a man named Shaji who



dedicated himself to the preservation of biodiversity. And also sir give many points for the protection of biodiversity. Sir also explained about visiting the ecosystem as an excursion to know more about nature and to acknowledge us about spending time with nature's resources as it supplies abundant information about nature. He has left us the idea of the importance of biodiversity and its importance in our life as it preserves as a guiding light to enlighten our minds and to be in a stress free surroundings.

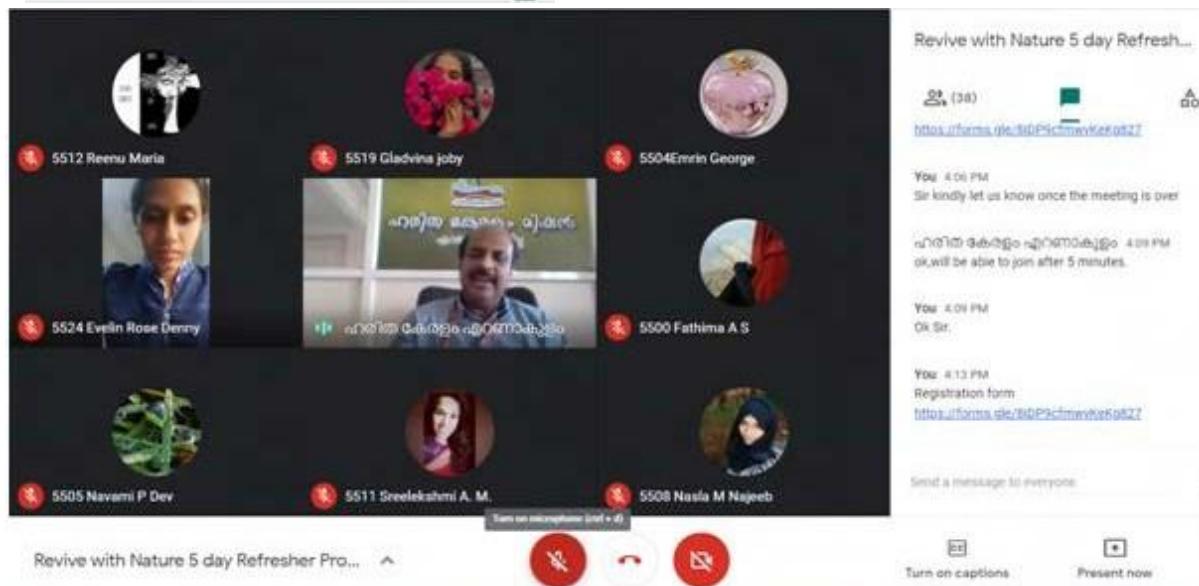
**Outcome of the event:** It was a grand success. Webinar also taught us about the need of preserving nature. Since man is a social animal, It also brings into light the need for biodiversity as we depend equally on it.



## Day 2: Waste management

**Detailed description of the programme :** The Bhoomithrasena club of St. Xavier's college for women, Aluva organized 'Revive with nature' five day refresher programme for students. 28/05/2021, the second day of the refresher program had started at 4:00 PM and it was coordinated by Evelin Rose Denny and Gladvina Joby. The class was led by Shri. Sujith Karun Sir, coordinator of Haritha Keralam Mission of Ernakulam district on the topic 'സമഗ്ര ശുചിത്വ മാലിന്യ സംരക്ഷണ പരിപാടി' 'സംരക്ഷണം'. The programme began with a prayer song by Sreelekshmi A M and Fatima A S delivered the welcome speech. Dr. Aneymol V S, the coordinator of Bhoomithrasena club of our college invited the resource person to take the class. He talked about Haritha Keralam mission programmes, overall waste management system, nature conservation and comprehensive waste management for preventing environmental degradation. He also shared his experience and practical solutions to look forward to proper waste management and also give awareness to build up an eco-friendly society. Overall it was an informative talk. Some of the students ask their doubts and queries. By the vote of thanks delivered by Aloobi Basheer, the second day of the refresher programme came to an end. It was an amazing session.

**Outcome of the event:** The class was very informative. It helps to understand proper waste management for preventing environmental degradation. The talk also delivered an insight to the need of implementing bio compost bins at every home.

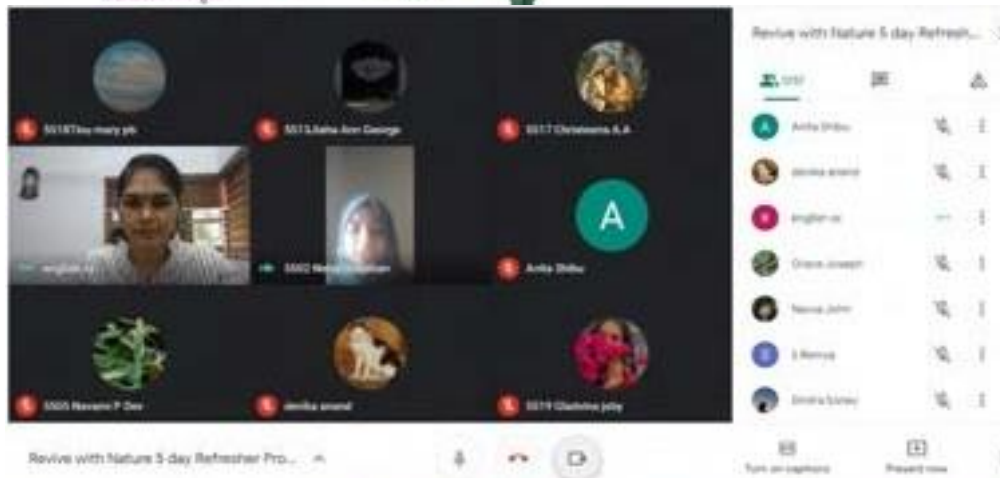


### Day 3 Green Challenges to conserve nature

**Objective of the Programme:** Awareness about Green challenges to conserve nature

**Detailed description of the event:** The Bhoomithrasena club of St. Xavier's college, Aluva organized 'Revive with Nature' 5 day refresher program with students. 29/05/2021, the 3<sup>rd</sup> day refresher program started at 10:30 am and it was coordinated by Neha Shajahan and Anna Nivya. The class was led by Dr. Saumi Mary M, the assistant professor of PG department of English of St. Xavier's college on the topic 'Green challenge to conserve nature'. The program began with a prayer song by Jisha Ann George and the welcome speech delivered by Christeena A A. The coordinator of Bhoomithrasena club of our college Dr. Aneymol V S invited the resource person to share the information regarding the topic. She talked about the consequences that we face when treating nature carelessly. Create an awareness towards the changes that should be made in our day to day life to conserve nature. She also shared some practical solutions to look forward to a healthy environment. After the class there was an interactive session. At last Tinu Mary P B expressed gratitude towards Miss Saumi and for all the participants. By this, the 3<sup>rd</sup> day of the refresher program came to an end with an inspirational session.

**Outcome of the event/Evaluation by program :** Get an awareness that by believing in ourselves we can change the world. We should make changes in our day to day life. When our activities affect our life it will make a positive impact towards the environment and change our life in a helpful way.





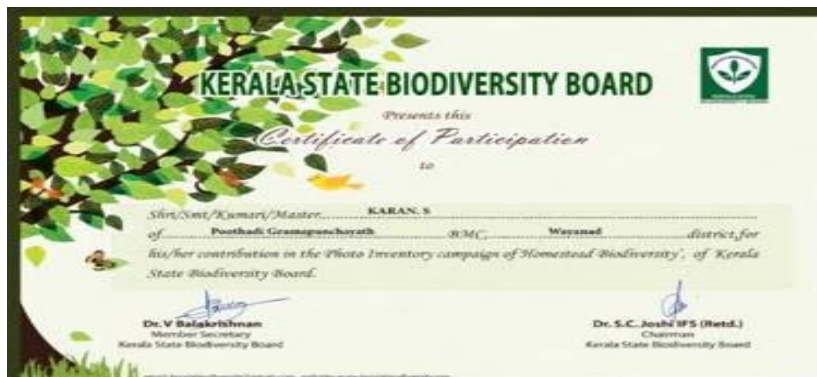
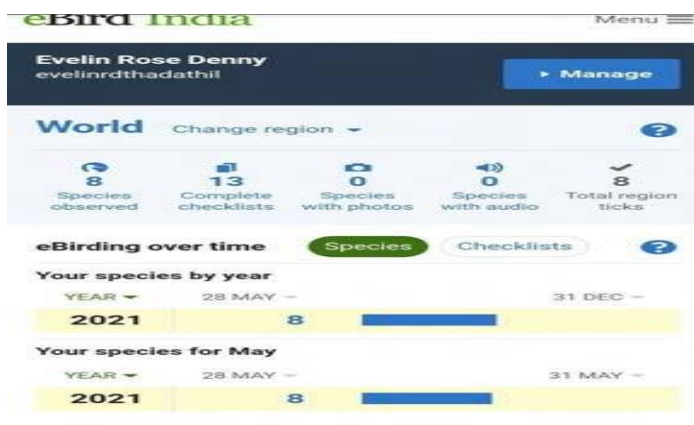
## Environment related Projects undertaken

### 18. Bird walk in the Hill Palace Museum Campus, Thripunithura

Members participated in Bird walk in the Hill Palace Museum Campus, Thripunithura on Sunday 21 March 7-9 am. This programme was with the support of the Department of Archeology. Hill Palace museum Campus is 52 acres of terraced woodlands which is a relatively unexplored area. It helps us to connect with nature and get closer to nature. There are few members who actively participate in contributing to ebird India



### 19. Homestead Biodiversity



Certificate of appreciation was received by Karan S a club member for her contributions to the photo inventory of homestead biodiversity during the pandemic lockdown period. We also promoted the homestead biodiversity monitoring. Students from other colleges also participated in the same.



## 20. Spider Diversity in and around Aluva

The objective of the project was to know more about spider diversity in the Aluva region. Also to explore Conservation status of spiders in our locality. The study was conducted in Aluva, a town in Ernakulam district with the geographical coordinates are 9.9816° N, 76.2999° E. The enchanting periyar river, criss-crossing canals and gurgling streams made this land fertile. The study has been carried out during the months August to December of 2020. Mostly students collected spiders from microhabitats like ground, banks of trees, bushes, herbs etc. Identified 21 spiders according to their morphological characters. Several factors influence the diversity of the spider including the complexity of the structure of the vegetation, the depth of leaf litter and the human activities. Spiders are generally closely related to the characteristics of the plant community. The spiders which create the web are directly related to the architecture of the vegetation due to the prerequisite requirement to place the web.

## 21. Earthworm study:

The data for this study area was collected during the month of January 2021. The study site included agricultural land, and waste drain. Sampling was done by hand sorting method. Using a spade soil pit was dug. The standard pit size for the National Earthworm recording scheme was 25cm by 25cm, to a depth of 10 cm. The soil from the pit was placed on a sorting tray for sorting, any earthworm found in the soil was removed and collected into a container. The collected samples of earthworm with appropriate amounts of soil were placed in polythene bags, labeled with place name, date of collection etc. Earthworms were narcotized in 70% ethyl alcohol and fixed in 5% formalin for 6-8 hours. The 70% alcohol acts as a killing agent and preserves the earthworms. However, earthworms contain a lot of fluid and will release this fluid when they are placed in the ethanol. This will dilute the ethanol and cause the earthworms to deteriorate, so the alcohol should be changed following sampling to prevent this. Survey of earthworm was conducted in different areas of Alappuzha municipality and Kuttanad Taluk of Alappuzha District. The species was collected from habitats such as polluted areas and agricultural fields. Earthworms observed in the area were: Agriculture field- *Pontoscolex corethrurus*, Polluted area- *Lampito mauritii*. The present study helped to understand the species diversity of earthworms in Alappuzha municipality region and Kuttanad Taluk region. The earthworm diversity is more in Agricultural land and the agricultural lands are rich in phosphorus and calcium. We could find *Pontoscolex corethrurus* in agricultural fields and *Lampito mauritii* in polluted areas. These two species belong to Anecic and endogenic ecological categories respectively.

## 22. Environmental related webinars /talks competitions attended by the club members under various clubs and department initiative

## 23. MOOC Course on Organic-Farming conducted by Mahatma Gandhi University: First year students 557 registered for the course

PRINCIPAL