

NATURE CLUB

GOVERNMENT COLLEGE KARIAVATTOM



REPORT 2023-24

REPORT OF NATURE / BHOOMITHRA CLUB (2023-24)

GOVT. COLLEGE, KARIAVATTOM

- Aim: Sensitize and mobilize students' participation for the preservation and conservation of environment.
- Objective: To bring students closer to nature and make them realize the importance of maintaining an eco-friendly environment.

Major activities done during 2023-24 under NATURE CLUB includes

- Formation of “Karshakasangham” and perform various agricultural activities under this banner which includes Kitchen Garden (Adukkalathottam).
- Fish farming inside campus with support from EWYL scheme along with other clubs/organizations within campus.
- Activities in adopted village – Pullanpara and Thellickachal Villages near Vamanapurapuram Grama Panchayath along with other clubs/organizations within campus
- Nature Awareness Trips, Environmental Cleanliness/ beautification activities within campus/public places.

Members under Nature Club, GCK during 2023-24

POSITION	NAME AND DESIGNATION
Convener	Dr. Raghul Subin S (Asst Professor in Zoology)
Committee Members	Mr. Manoj S. (Assistant Professor in Malayalam) Ms. Suchithra Krishnan (Asst Professor in Botany) Dr. Karthika K (Asst Professor in Geography) Ms. Princy Raju (Asst Professor in Botany)
Advisory Committee	Prof (Dr.) Sandia GS (Principal, GCK) Sri. Manoj KS, (Convener, Gandhian Studies Chair, GCK) Dr. Boban PT. (Convener, EWYL Scheme, GCK) Dr. Prakash S (Senior Faculty) Dr. Sabeen HM (Co-ordinator, IQAC, GCK) Dr. Radhika CS (Co-ordinator, IQAC, GCK) Dr. Dhanush DM (NAAC convener) Dr. Dhanya CR (NAAC convener)

MAJOR ACTIVITIES

1. ORGANIC FARMING – VEGETABLE GARDEN (ADUKKALATHOTTAM) IN THE COLLEGE CAMPUS

A group was formed to promote environmental awareness/entrepreneurship among students under the leadership of Nature Club, GCK named “Karshakasangham”. Smt. Suchithra Krishnan, Asst Professor in Botany were charged as team leader with members of Nature Club, members of EWYL scheme, members of Gandhian Studies Chair, IQAC, GCK, other faculty members, College union and other interested students. The main aim was to setting up a kitchen garden nearer to college canteen and perform vegetation. Selected students were given wages during this program as per government norms under the scheme “EARN WHILE YOU LEARN”. This scheme aims in creating awareness among students about agriculture and also promote them to earn while they studying. With the aid from PTA of the college, Adukkalattottam was setup with the support from the students and faculties. Extensive support were given by the Department of Agriculture, the Government of Kerala. This scheme were going on successfully under the leadership of Dr. Prakash S (Advisor for Karshakasangham Scheme & Assistant Professor in Hindi), Dr. Boban S. (Convener, EWYL Scheme & Assistant Professor in Biochemistry) Dr. Raghul Subin S (Convener, Nature Club & Assistant Professor in Zoology), Sri. Manoj S (Staff Advisor to College Union and Convener, Gandhian Studies Chair), Smt. Suchithra Krishnan (Convener, Adukkalatottam & Assistant Professor in Botany), Dr. Abhilash S (PO, NSS Unit 17 A&B), Smt. Parvathy S (PO, NSS Unit 17 A&B) and Dr. Karthika K (Member, Nature Club & Assistant Professor in Geography).



Organic Farming – Vegetable Garden in the campus



Organic Farming – Vegetable Garden in the campus

2. OBSERVATION OF ENVIRONMENTAL DAY 2022-2023

Environmental day celebration was observed in the campus on 5th June 2023. One week program were conducted. The day observation were done with tree sapling planting in the campus area. The activities were jointly initiated by NCC, Government College Kariavattom, NSS Unit 17 A&B, Government College Kariavattom, Environmental Club, GCK. Nature club members were actively participated in this program. A whole week program were conducted for this day observation. Campus cleaning and setting up of vegetable garden were also done during this period. A total of 1000 tree saplings were collected from Kerala Forest and Wildlife Department nursery at Palode for planting in the campus surroundings. Few tree saplings were distributed among students.



Collecting tree sapling from Kerala Forest and Wildlife Department nursery at Palode





World Environmental Day Celebration 2023-24

3. FRESHWATER FISH FARMING

A freshwater pond was constructed in the college campus with financial support from EWYL scheme under the "Student Support Welfare Outreach 2202-03-103-51" scheme fund from Department of Collegiate Education, Government of Kerala. Fish farming in our college was done under the coordinated activities of various clubs which includes EWYL Hub, Nature Club, Gandhian Studies, Karshakasangham and IQAC, and College Union with necessary technical support from the Department of Zoology, Government College Kariavattom.

EWYL scheme mainly aims for the empowerment of entrepreneurship skills in students and enhances their leadership quality. Through this mission, an awareness of ecofriendly and sustainable development is promoted among students. From the Earn While You learn Scheme, we also aimed at giving financial support to several students by giving salary through fish production.

The present pond can had a stocking density of holding more than 300 medium sized fishes like Thilapia, channa and etroplus. Initially a total 150 fish seeds includes channa and thilapia were deposited as a pilot scale by December 2023. The present system showed high survival rate and harvesting of Thilapia were done on 27/03/2024.

During the pond construction, we got valuable support from the Dr. Midhun Sukumaran, Asst Professor in Aquatic Biology, University of Kerala about pond preparation and setting-up of aquaponics system. We also aims at updating the present system into an integrated fish farming system like aquaponics (Integrated Fish farming cum Vegetable Farming). By doing so we can educate the students about the concept of novel techniques in agriculture/aquaculture. In the mean time, we also installed a WHIP irrigation System in front of fish farming system too.



Faculties with aquaponics expert Dr. Mithun Sukumaran, Assistant Professor, Department of Aquatic Biology, University of Kerala during initial construction of aquaculture pond



Freshwater fish farming in college campus



Whip irrigation installed along with fish farming



During the updation of aquaculture setup into Integrated fish farming system- Aquaponics, Zoology faculty explains the concept of aquaponics to the students.



Initial harvesting of fish farming held on 27/03/2024

4. ADOPTION OF VILLAGE FOR PROMOTION ON AWARENESS TO NEED OF HIGHER EDUCATION AND JOINING HANDS WITH WORKS OF VILLAGE LIBRARY BY NATURE CLUB AND GANDHIAN STUDIES CENTRE, GOVERNMENT COLLEGE KARIAVATTOM

The best practice of learning in Higher Education will only be fruitful as we join the hands of the needed population from our surroundings. It will be more cohered if the needed population lives in a village with minimal facilities. Taking this fact in mind the Nature Club and Gandhian Studies Centre in our college made an initial discussion on 03/01/2023 Tuesday and arrived at the following conditions/ tasks.

To notify a village in surrounding with moderate accessibility

- A Village with population moderately educated (Higher)
- Population having done initial forms of social/ educational programs

By analysing the above said matters we arrived finding a village called Tellickachal in Pullampara Panchayat of Vamanapuram Block of Thiruvananthapuram District. This place locates 22km away from the college. The committee members made a pilot visit to the place on 29/05/2023 and visited the local place built for gathering near to the village pond, village library (Grandhasala) and local people.



After the initial discussions, several activities were planned to execute in the adopted village. Initial coordination with village authorities and the village library members were coordinated by Dr Dhanush DM (NAAC coordinator, GCK), Sri. Manoj KS (Convener, Gandhian Studies Chair, GCK), Dr Raghul Subin (Convener Nature Club), Dr Prakash A (Senior faculty, GCK), Sri. Ullas S (Asst Professor in Maths, GCK) and Dr. Boban PT (Anti-ragging cell, GCK). Before going for a big step, a fruitful discussion was made with the Vamanapuram Grama Panchayath President and the ward members of the Panchayath by the faculties.



Discussion with Vamanapuram Grama Panchayath President and Panchayath Authorities

Several activities were planned to carryout in the adopted village by including the involvement of all the departments and clubs in the government college Kariavattom. On 21st October 2023, NSS volunteers and graduate students of BSc Geography and BSc Statistics conducted a socio-economic survey in the adopted village accompanied by faculties of our institution.



Socio-economic Survey in Adopted Village at Pullampara



Government College Kariavattom