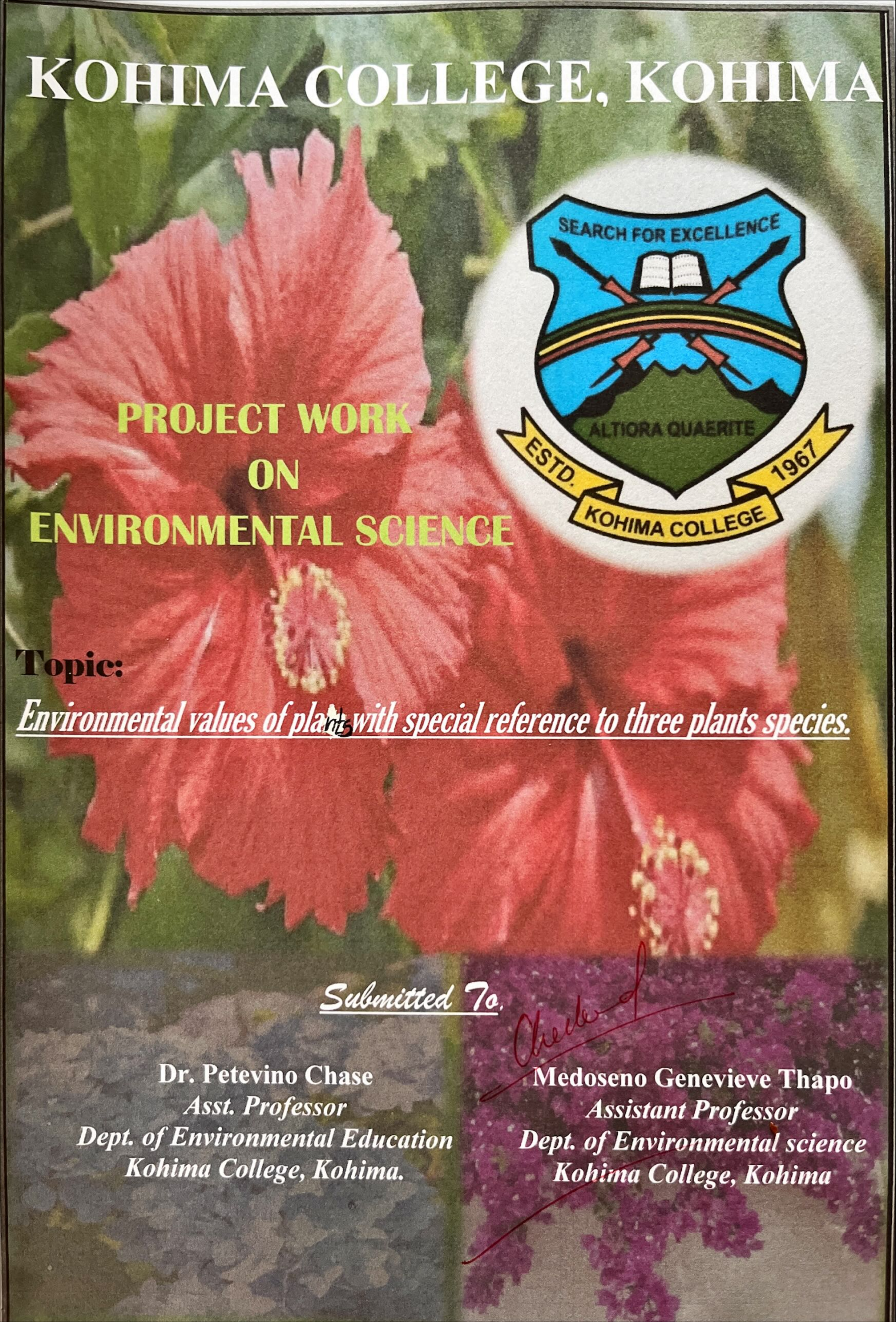
KOHIMA COLLEGE, KOHIMA



PROJECT WORK
ON
ENVIRONMENTAL SCIENCE

Topic:

Environmental values of plants with special reference to three plants species.

Submitted To,

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Introduction

Environmental values refer to the principles belief and ethics that individuals or societies holds regarding the environment .these values shape how people perceive and interact with guiding their decisions and behaviors towards conservation, sustainability, and responsible stewardship of the earth's resources.

Plants play crucial roles in maintaining environmental balance. They help produce oxygen sequester carbon dioxide, prevent soil erosion, provide habitats for wildlife and contribution to nutrient cycling. Additionally they can improve air and water quality, mitigate climate change and enhance biodiversity. Overall the environmental values of plants are immense and fundamental to sustaining life on earth. These environmental values underscore the importance of preserving and promoting plant life for the health of ecosystems and the plant as a whole. The environmental values of plants with special reference to three plants species are;

1. HIBISCUS: Hibiscus flowers are known for their vibrant colors and are often used in herbal tea due to their tart flavor and potential health benefits.

Hibiscus plants offer several environmental benefits:

A. Attracting pollinators: Hibiscus flowers attract bees, butterflies and hummingbirds, ai9ding in pollination and supporting local system.
B. Soil erosion control: Their deep root systems help stabilize soil, preventing erosion, especially in areas prone to heavy rainfall or wind.
C. Biodiversity support: Hibiscus plants provide shelter and food sources for various insect and birds, enhancing balance.
D. Aesthetic and physiological benefit: Plants enhance the beauty of landscapes, parks, and gardens, contributing to human wellbeing and mental health.

2. Biodiversity: Bougainvillea is a beautiful flowering plant known for its vibrant colors and thorny vines. It's commonly found in tropical and south tropical regions and is often used for landscaping due to its hardness and striking appearance. Bougainvillea offer several environmental benefits, including providing habitat and food for birds and insects, adding in erosion control with its dense foliage, and adding beauty to landscape, which can contribute t psychological wellbeing and community aesthetics. Additionally, its ability to thrive in diverse climate can reduce the need for water intensive landscaping options, thus promoting water conservation.

3. Hydrangea: Hydrangea is beautiful flowering plants known for their large, colorful blooms. They come in various shades, including blue, pink, purple and white, and are popular in gardens and floral arrangements.

Hydrangeas have several environmental benefits. They attract pollinators like bees and butterflies, contributing eco system health. Additionally, their dense foliage can help prevent soil erosion and provide habitats for small animals. Hydrangeas are also known for their ability to thrive in a variety of soil conditions, reducing the need from excessive fertilizers or pesticides.

From above discussions on environmental values of various plants species, plants play a vital role of in maintaining environmental balance by reducing oxygen, absorbing carbon dioxide, preventing soil erosion and providing habitats for various species. Therefore, valuing and preserving plants is essential for health of ecosystem and human wellbeing.

Experience

Talking about our experience of making eco-bricks, it was totally fun but also difficult and challenging. Stuffing plastics into bottle took us more than half an hour to finish one eco-brick. We were also aware that it was not the perfect solution but we believe that it is better to have in this way than burning plastics in the garden in order to reduce plastics waste and protect our Mother earth.

Shrubs plantations (flower).

We also planted different kinds of plants (flowers) in order to make our college surrounding clean and green and to make our compound and eco friendly.

Thereafter, it was such a great experience, in performing activity of making eco-brick and planting flowers. It was amazing working with the team with great cooperation. It also helps us to know the importance of team work as well.

Observation

1. The use of eco-bricks has greatly reduced the amount of plastics scattered in college areas. Plastic that has been properly packed into an eco-brick can be put use as building blocks that will not break down or contaminate the environment, which we have observed through our activity. This plastic has been effectively and indefinitely sequestered. This service is valuable.
2. Finding eco friendly alternative to plastic in our daily life does not have to be difficult, and doing so can drastically reduce our impact on the environment. It is time to stop using plastic that are only meant to be used once and instead we should turn to more environmentally friendly substitutes for plastic.
3. The things that we observe are a great team work. Every member contributed towards the project that is by bringing about various plants, tools needed and by rendering their hand work with plantation.
4. During our inspection after the work, we observed that, WITH THE plantation of various shrubs and flowers, it had greatly contributed towards beautifying the overall surrounding of the college premises,
5. In the process of making eco-bricks, it had lead to cleaner environment. Since its making required the tights stuffing of plastics into the bottles it resulted in collection of various wrappers there by reducing the amount of plastics scattered around.

Challenges

About our challenges while doing our project work was making eco-brick it also led us not to loiter in and around our college campus areas. We also faced problem to pick up the wrappers from the unclean area, in order to make eco-brick inserting the wrapper into empty bottle and pressing the wrapper to be inserted very tightly so that it cannot produce sound, was a challenging for us in doing the assigned task. We also faced some difficulties regarding the fertility of the soil. The soil was hard and tries, so we needed to take care of the issue first. Also there are dogs around the dogged grounds which make the plants vulnerable to damage. Constant watering is essential for some particular plants to grow, this, is one of the greatest task. Nature can also alter the growing of the plants with the onset of strong wind which could blow away the fresh soil or even loosened the grip of the roots. Thus, planting flowers in a new habituated was a challenge. Protection the plants from the external damage is also another obstacle. The other way around to protect the newly planted flowers was to put up fences around them and be vigilant of invasion and destruction from the public.

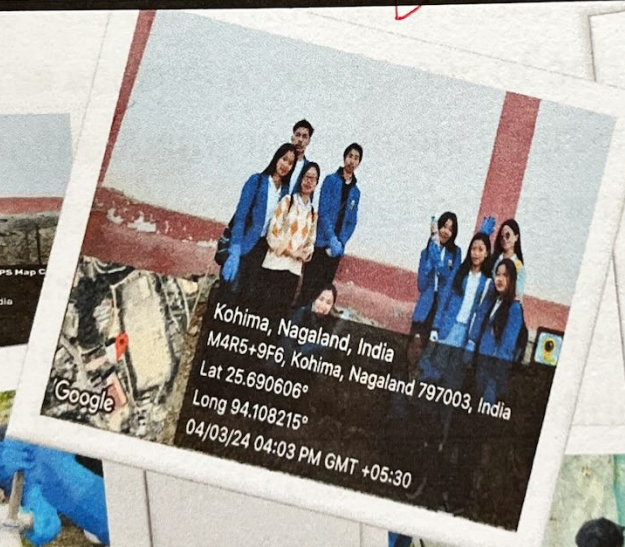
Suggestion

After a thorough observation and first hand observation, there are some views and measures which we believe are very essential and vital for the protecting our environment.

Here are some few suggestions:

1. While making eco-brick was observed that there were liters all over the campus and no dustbin. So, it will be good if the college or the students take the initiative to make or purchase dustbins and place it at every possible corners and roadside.
2. The students can also creatively make posters on plastics and environment and paste it for environmental awareness.
3. The plants which we has planted, need extra care but since they were planted in winter and insufficiency of water, many plants may dry up. So, it will be good if the group can look after their assigned plants in regard with watering.

Photo Gallery



Conclusion

Plants often have sufficient to take their daily diet of protein, Fat many vitamins; A, B, C and d; and minerals.
The natural role of plant compounds is mainly for mission to protect plants from pathogens. The various effects of these compounds are entailed to interest for their potential chemotherapeutic Impacts. In addition, as we3ll as plants are importance in human nutrition, they also are important to animal nutrition. Still, phytoestrogens and lignins have been related to reduce cancer risks. This results entails some debates such as the anti cancer prevention. It is also well known that daily nutrient consumption such as from vitamin and mineral has important to prevent cancer risk. Polyphones are also known as anti oxidants and have importance to prevent critiovesaler disease and some of cancer reforms. Partially, as accepts recently, one of anti cancer plant6 is tea. Tea ply phenols are the major ingredients in green tea, and it has been suggested that their anti carcinogens effects is a result of their antioxidants activities, modulation of immunity, and activation tetoxificatrin enzymes. Due to superior neutratinatin value of plants influenced more or less by environmental condition. From this perspective, the environmental condition and soils to cultivate plants should. Plan agronomists, breeder processors and all other relatives need bay attending to observation, study, evaluation, and figuration about food quality to improve the plants which are capable of climate changes. As a result, the potential and new detected effects of plant compounds might be used in new approaches in medicine or humans.

Submitted by,

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