

## Green Audit: An Initiative of ECO CLUB



Jointly Conducted by the IQAC, United College, Lambung, Chandel

*(This audit was conducted in order to submit it to NAAC, Bangalore, together with AQAR 2021–22.)*

ECO CLUB, UNITED COLLEGE, LAMBUNG, CHANDEL

May, 2022

## Certificate

This is to certify that the ECO CLUB team of United College has completed the "Green Audit: An Initiative of ECO CLUB". The data regarding environmentally conscious initiatives and practices inside the campus have been collected and duly presented in this audit. This is the original work of the ECO CLUB and it has been jointly carried out with the IQAC of this College. It is to declare that this audit report has not been submitted elsewhere.

This is true to the best of our knowledge.

Date: 16/7/2022

Place: United College, Chandel



(Dr. Mohd Mustaque Ahmed)  
Secretary, ECO Club and IQAC Co-ordinator, IQAC



( Dr. BD. Thumdal)  
Principal/Chairman  
United College, Lambung, Chandel

**Auditors:**

1. Dr Mohd Mustaque Ahmed, Assistant Professor, Department of Botany
2. Dr Guisuibou Daimei, Assistant Professor, Department of Zoology
3. Dr Dominic Thangminlen Haokip, Assistant Professor, Department of Botany

## Contents

	Page no.	
Certificate	(i)	
Sl.no	Title	
1.	Introduction	4
2.	Methodology	5
3.	Results, Discussion & Photographs	6 to 7
4.	Photographs	8 to 12

## Chapter 1-Introduction

United College, Lambung, Chandel is situated in the south-eastern part of Manipur. The College campus is located in an area of the Chandel District and it is 68 Km far from Imphal. The campus has an area of 13.52 acres and it is situated at a picturesque site about 2½ kms from Japhou Bazar, the District Headquarters. It lies at a region with geographic reference of 24.193193°N latitude and 94.005881°E longitude, at an elevation of 894m above mean sea level, skirted by the meandering Chakpi River. The average rainfall of Chandel District is 146.71cm. The temperature during coldest season records below 5<sup>o</sup> C and the highest remain at around 32<sup>o</sup>C (43<sup>o</sup>C at Moreh)( Meteorological Survey of India). The relative humidity ranges between 43 PC and 92 PC. Soils are developed from sandstones and shales. The surface soil is grey brown to dark brown sandy loam to loam, granular to yellowish brown, sandy loam to clay loam. The soils are formed by the alluvium deposited by the Chakpi river near the campus. The main soil is grouped as alluvial soils and bog soils.

The College is located in a hilly place and the campus is surrounded by mountains on all sides. The campus looks so serene and there is a pleasant look on all sides. This has made the United College campus a unique place. However, there is global understanding of global warming, prevention of deforestation, protection of biodiversity and protection of habitat. There are talks such as pollution, species loss, conservation, etc. There are facts that our environment has changed due to automobiles, building construction, plastic deposits and change of water colours. Considering these facts, we in the College campus also feel grieves due to imbalances such as hotness and heavy raining happening in the surroundings. We need to make clean- and clear-cut plan to construct our buildings. We need to dispose solid wastes in our surroundings at safe places. There is needful of growing trees inside the campus in a better way and therefore landscaping of tree planting inside the campus is necessary. The general idea is that the College management committee is supposed to take up the management of water including water conservation. With these in the mind we need to manage everything in a planned manner. For this, first of all, we need one documentation/audit about our arrangement of the campus considering environment friendly initiatives. This is our own /audit aiming the good management of our own green initiatives within the campus,

## Chapter 2: Methodology

This is only a work of an independent audit of the facilities we are having in the Campus. That the audit has taken into account of the environment friendly facilities the College is having in its campus. Two very important observation regarding environment has taken into consideration. These were living and non-living entities found in the campus. The application of the method used for this study has not taken from anyone. The method has sprung up randomly and this has been used purposively to look into the things observed in the fields/campus or documents to carry out our own audit which will serve particularly our purpose and for the general public in the surroundings. This audit has looked into the following aspects of study.

A. Useful non-living entities/structures:

- (1) To make a list of the facilities,
- (2) Take photograph of the facilities,
- (3) Collection of documents/notifications prepared by the College for the improvement of the environment

**B. Useful living plants:**

- (1) Give names to the plants
- (3) Take photograph of the plants.

## Chapter 3: Results and Discussion

The following useful non-living entities/structures have been found in the Campus.

### A. Structures

- (i) Solid waste collection pit
- (ii) Dustbin
- (iii) Sanitary Latrines
- (iv) Water tanks
- (v) Water harvesting
- (vi) Foot path
- (vii) Sanitary napkin delivering machine
- (viii) Use of led bulb
- (ix) Ramp
- (x) Separate amenity rooms for boys and girls

### B. Notifications/Documents

- (1) Ban of plastic
- (2) Pledge to disuse plastics in the news
- (3) Ban of vehicles in the campus
- (4) MOU for the solid waste management

### C. Useful Plants in the campus:

(i) Herbs: *Ageratum conyzoides* (Khongjai napi), *Plantago erosa* (Yempat), *Cynodon dactylon* (Tingthou), *Imperata cylindrica* (Ee), *Xanthium strumarium* (Shampakpi), *Achyranthes aspera* (Khujumpere), *Vitex trifoliata* (Urikshibi), *Mimosa pudica* (Kangphal ikaithabi) etc.

(ii) Trees: *Quercus serrata* (Uyung), *Castanopsis tribuloides* (Shahi), *Rhus semialata* (Heimang), *Erythrina orientalis* (Kurao Angangba), *Pinus kesiya* (Uchan), *Gmelina arborea* (Wang), *Psidium guajava* (Pungdon), *Dactyloctenium aegypticum* (Pungphai) and *Oxalis corniculata* (Yensil), *Parkia roxburghii* (Youngchak), etc

(3) Potted plants: There are various potted plants in the campus. A few of the are Periwinkle, Sunflower, China rose, Allium sp., etc

Considering the results above, it has come to the discussion and concluding part of this green audit. The impression is that the campus is not lacking in its efforts to improve environment friendly applications. The conservation efforts of the College are reflected in having water harvesting tanks and led bulbs to conserve energy. Solid waste is well managed in such a way that it deposits solid waste, litters into one collection centre. From there, the waste has been collected by the Bazar Board vehicle to make sure its safe disposal. The campus bears number of dustbins of colourful and of big sizes. The sanitary latrine has been constructed everywhere near the departments, multipurpose hall, hostels, library and thus in the Science building. A part of the footpath within the campus is blacktopped and the singling has been done for some other parts. There has been awareness of the bad effects of plastics. Therefore, the committee members, teachers, non-teaching staff used to take on the pledge to disuse plastic items. This important event was published in the news. The matter of not to use plastics has already been notified. There were a few notifications by the Principal of the College heralding to everyone that the big vehicles can't pass through the campus. One memorandum of understanding was signed between United College and Japhou Bazar Board for the safe disposal of solid wastes. There are separate amenity centres or rooms for boys and girls.

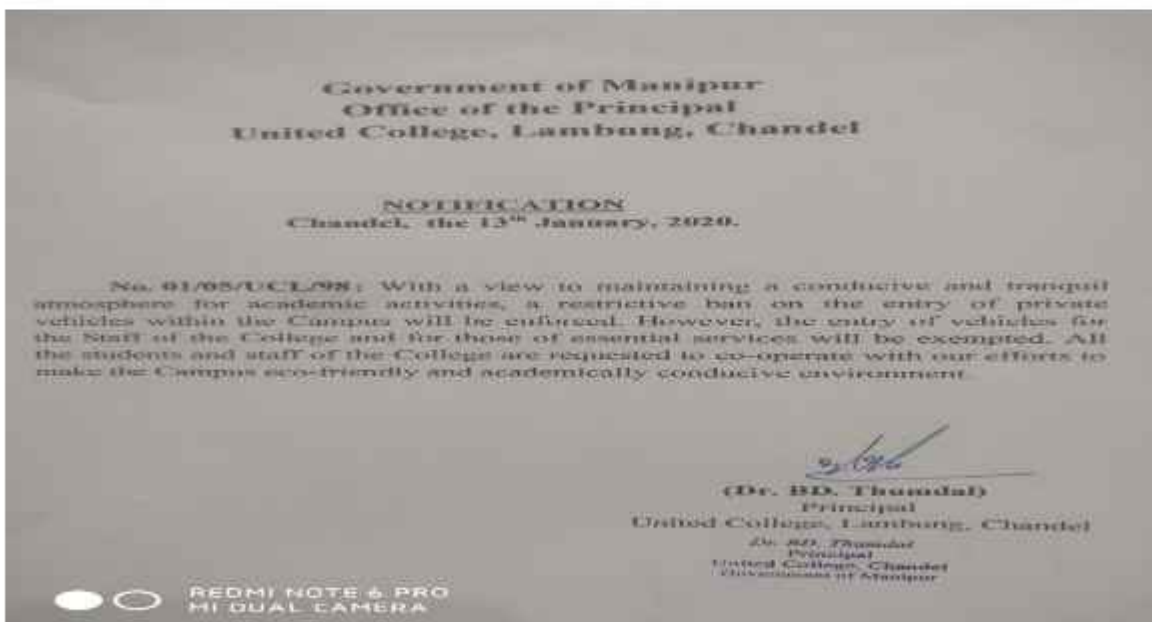
It has been found that the greenery is still found in the campus in the form of some herbs and trees listed above. Trees are found growing by the side of the Chakpi River, by the side of the arts building, backside of the Library and Women hostel etc. There were efforts of the College to grow plants within the campus on the occasions of the World Environment Day (5<sup>th</sup> June every year) and Van Mahotsav celebration (First week of the July month). During the Van Mahotsav celebration last year on the 5<sup>th</sup> July 2021, the Deputy Commissioner, Chandel District, Forest Ranger Officer, Chandel and Dr Bd Thumdal, Principal, United College took initiative to grow plants in the campus. The above information has only indicated that the United College campus is interested in the management of physical facilities properly and for this some popular environment friendly measures have been taken up. Like, one sanitary napkin delivering machine has been

installed in the girl's hostel for female students and teachers. All in all, the campus is safe considering environmental measures and this place is safe for the study purpose.

**Photographs:**



**Pic 1: Dustbin in front of the Administrative block**

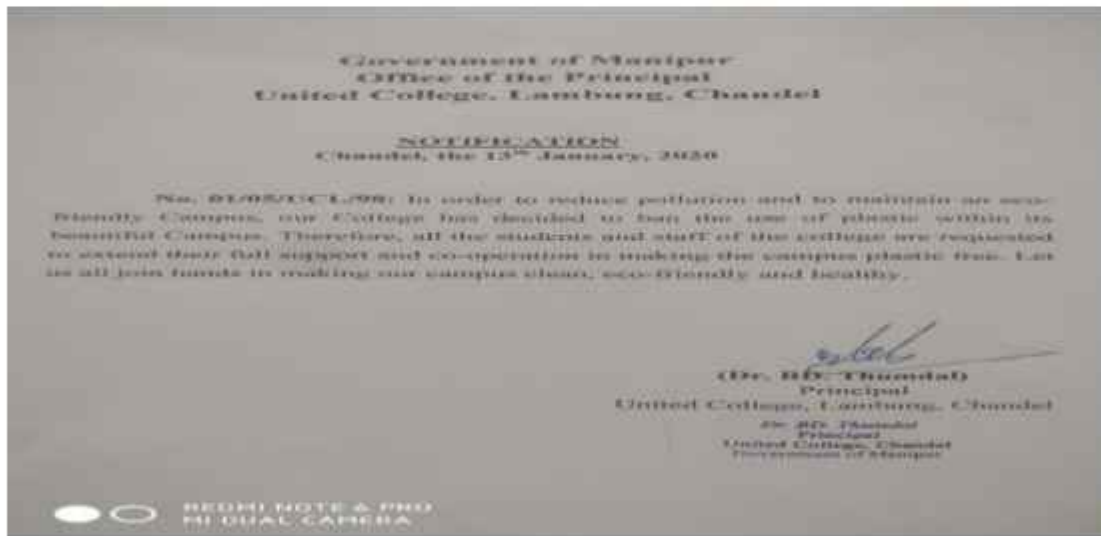


**Pic. 2: Notification regarding Ban on Vehicles/automobiles**





Pic 3: Van Mahotsav Celebration(5<sup>th</sup> July 2021)



Pic 3: Notification regarding disuse of plastics/ban on plastic items



**Pic 4: Use of Led bulbs in the Office of The Principal, Dr BD Thumdal**



**Pic: Pedestrians friendly path**



Pic: Water harvesting Tank



Pic: Girls' Common Room



**Pic: Sanitary Napkin tillering Machine**

**Recommendations:**

1. Trapping of solar energy to be converted to usable energy in the form of source of light.
2. Introduction of potable water supply into the campus.