



DON BOSCO COLLEGE

Dhodar Ali Road, Railway Gate No 3
P.O. Golaghat – 785 621
Assam

Phone: 9508989780
www.dbcgolaghat.com
dbcgolaghat@gmail.com

7.1.6 Quality audits on environment and energy regularly undertaken by the institution and any awards received for such green campus initiatives.

*Relevant Documents

Environmental programme beyond the campus



24 Sept: The Don Bosco College NSS Unit observed 24 September as the NSS day. The day was marked with awareness program organised in the college for all the students in which the NSS volunteers spoke about National Service Scheme. Under the Banner "Cleanliness Drive" the volunteers motivated the students to clean the campus. After that they organised Cleanliness Drive to clean the city.



5 Jun : Soon after the World Environment Day celebrations at the college campus, the NCC cadets took a public rally to create awareness among the people to control the use of plastics in order to safeguard the environment. The CTO of the NCC Unit, Ms. Himadri Dutta, Asst. Professor, Department of Assamese and Mr. Micheal Xaxa, Asst. Professor, Department of Economics accompanied the cadets. With banners, placards and posters, the cadets impressed the people on the need to save and protect the environment.

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22 Sept: A 2 day training program was held at Dibrugarh University on Leadership Development and Enhancement of Communication skills to address the Swachh Bharat Movement. Two NSS volunteers from the college, Mr. Martin Minj and Ms. Sushila Lakra were delegated to participate in the said workshop. The sessions were interactive and very enriching', said Martin. "The aim of the workshop was to build leaders who will motivate their companions in the college to conscientise all to make 'clean India'. Both Sushila and Martin were selected to go for a Documentary shooting at Banipur to promote cleanliness.



23 Sept, 2017: The NCC SW unit of Don Bosco College Golaghat, under 74 Assam Girls (I) Coy NCC, organised Cleanliness drive on Swachh Bharat Abhiyan today at Halmira -Dhodar Ali Road.

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25 Sept: NSS day was observed in the college on Monday, 25 September. The NSS volunteers organised a one hour program to impart awareness to all the students of the college on NSS activities. Guloungam and Tohsina were the comperes for the program. Rohit Gorh, welcomed all the dignitaries and students and spoke about the NSS and its activities. Report of the recent training programs in which our students attended were presented by Martin Minj and Mark Pegu. The principal of the college gave a message on the motto of NSS and asked each volunteer to do services for humanity without counting the cost.

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GREEN AND ENVIRONMENT AUDIT REPORT

2020-21

Don Bosco College
Golaghat



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Estd.: 1949

DEPARTMENT OF BOTANY DEBRAJ ROY COLLEGE

GOLAGHAT- 785621 (ASSAM)

Accredited By NAAC with 'A' Grade in 2011 &

Selected by UGC as College with potential for excellence, 2010

Ref. No.: DRC/

Date: 12/01/2022

From:

Dr. Roshan Sarmah
Assistant Professor

CERTIFICATE

This is to certify that the Green Audit of Don Bosco College, Golaghat has been carried out under my supervision and guidance. This report has been prepared within a very short period of time, therefore the parameters and informations which are able to generate with the limited resources were considered for preparation of this Green Audit.

I would like to offer my best wishes to the College for excellence in higher education in future.

(Dr. Roshan Sarmah)
Assistant Professor
Department of Botany
D. R. College, Golaghat
D. R. SARMAH
Assistant Professor
Department of Botany
D.R. College, Golaghat, Assam

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External Expert -Green Audit Committee

Dr. Roshan Sarmah
Assistant Professor
Department of Botany
DR College, Golaghat.

Dr. Mridul Chetia
Assistant Professor
Department of Chemistry
DR College, Golaghat

Faculty Members – Green Audit Committee

Miss Pratyasi Barua
Miss Rimi Sarmah
Mrs. Devangana Saikia
Mr. Bijoy Gogoi

Assistant Professor
Assistant Professor
Assistant Professor
Assistant Professor


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CONTENTS

1.Introduction -----	1
2.About the college -----	1
2.1. Mission and Vision	
3.Objectives of the study -----	3
4.Methodology -----	3
5.Water Management -----	5-9
6.Energy use and conservation -----	10-11
7.Waste Management -----	12-13
8. Green area Management -----	14-18
9.Conclusion and Recommendation -----	19
Annexure I – Certificate for tobacco free campus -----	20
Annexure II – Photographs -----	21-24


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1.Introduction

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyse environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit.

2.About the College


Don Bosco College, Golaghat is a Degree College run by the Salesians of Dimapur Province. The Salesians of Don Bosco are well known in 132 countries around the globe. In North-East, from the Assam Don Bosco University to a Primary School in a remote village, all take pride in imparting quality education. In 2015, the Don Bosco Society opened two more Degree Colleges: one at Kohima, Nagaland and the other at Golaghat, Assam.

Don Bosco College, Golaghat, is established and administered by the Salesians of Don Bosco, Dimapur Province. It offers Degree courses in Arts and Commerce. The college follows the System of Education, developed by St. John Bosco, which is widely known as the Preventive System of Education and is based on Reason, Love of God and Loving-kindness. It places before the staff, students and parents the high ideals of humanism and service towards which they are continually invited to strive. Don Bosco prepares students to life in its fullness and at the same time be of service to humanity, by everyone leaving a mark in the society where one lives.

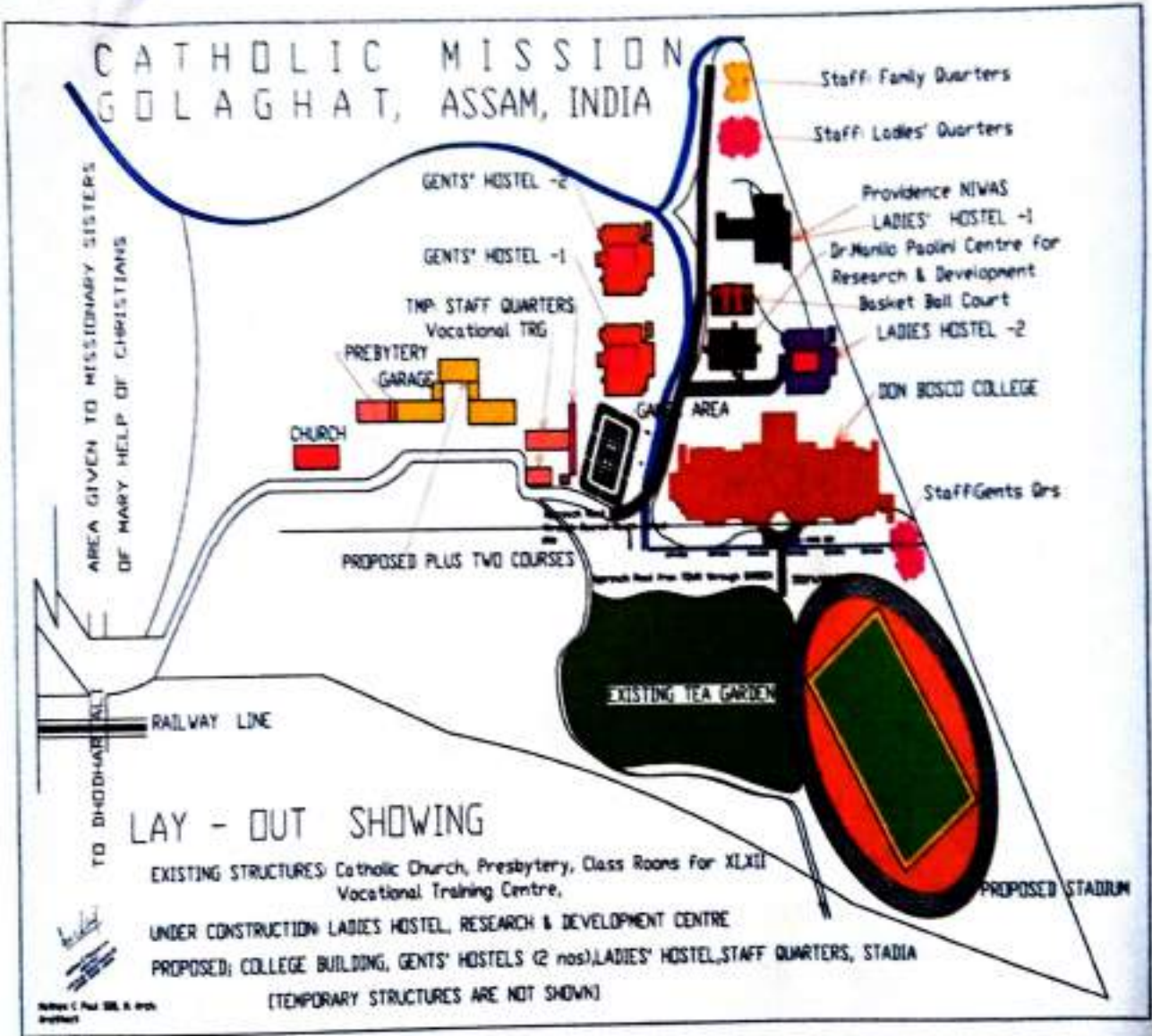
The College is affiliated to Dibrugarh University vide order No. DU/RG/DCDC/19/Aff/PERM./dbc/105 dated 30/04/2019 and is Recognised under Section 2(f) of UGC Act 1956 vide F. No. 8-735/2019 (CPP-I/C) dated 20 Oct 2020.

2.1 Vision and Mission of the college

- To build a society, where youth become intellectually competent, morally upright, socially committed, spiritually inspired and nationally dedicated.
- To set up an Institute of learning and wisdom, where academic excellence fructifies into formation of enlightened citizens. To this end, every effort will be made.
- To provide integrated and personalized education.
- To form persons with right principles and values.
- To strive continually after excellence in every field.
- To be selfless in the service of fellow beings, in order to bring about social justice.
- To make education more relevant, practical and useful for life.


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Don Bosco College Campus Layout

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3.Objectives of the Study

The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- To introduce and aware students to real concerns of environment and its Sustainability.
- To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use of the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requiring high cost.
- To bring out a status report on environmental compliance.
- To promote safe and clean environment

4.Methodology

In order to perform green audit, the methodology included different tools such as physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarise the present status of environment management in the campus:

- Water management
- Energy Conservation
- Waste management
- Green area management

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5. WATER MANAGEMENT

Testing of water ensures clean and safe drinking water for all. Keeping in view the water quality of Don Bosco College is tested by District Level Laboratory (PHE) Golaghat Division, Golaghat, Assam. Detailed report is given below.

DISTRICT LEVEL LABORATORY (PHE) GOLAGHAT DIVISION
GOLAGHAT, ASSAM

Receipt No. 1212

Water Analysis Report Of Don Bosco College Golaghat

01. Name of Collector :
 02. Date of Collection : 12/01/24
 03. Date of Despatch :
 04. Date of Testing : 12/01/24
 05. Type of Source : Well
 06. Type of Analysis : Physical Chemical Bacteriological

TEST	PERMISSIBLE LIMIT	RESULT
01. Turbidity	1.0 - 5.0	5.114
02. Total Dissolved Solid	500 - 2000	---
03. PH Value	6.5 - 8.5	6.6
04. Iron	0.3 - 1.0	5.62 ppm
05. Hardness	200 - 600	110
06. Calcium	75 - 200	---
07. Magnesium	30 - 100	---
08. Alkalinity	200 - 600	240
09. Chloride	250 - 1000	---
10. Nitrate	45 (No relaxation)	---
11. Sulphate	200 - 400	---
12. Residual Chlorine	0.2 - 1.0	---
13. Arsenic	0.01 (No relaxation)	---
14. Fluoride	1.0 - 1.5	---
15. BACTERIOLOGICAL		

RESULT	COLIFORM	ECOLI	RESULT
a) Excellent	No Coliforms/100 ml	Nil	Nil
b) Satisfactory	1-2 Coliforms/100 ml	Nil	Nil
c) Suspicious	3-10 Coliforms/100 ml	Nil	Nil
d) Unsatisfactory	above 10 coliforms/100 ml	Nil	Nil

ADVIC: Report as per as Sample Received.

[Signature]
 Signature
 Asstt. Chemist

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[Signature]
 Signature
 In-charge, Laboratory

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[Signature]
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**DISTRICT LEVEL LABORATORY (PHE) GOLAGHAT DIVISION
GOLAGHAT, ASSAM**

Receipt No. 1710

Water Analysis Report Of Don Bosco College, Golaghat

01. Name of Collector :
 02. Date of Collection : 11/01/22
 03. Date of Despatch : 11/01/22
 04. Date of Testing : 12/01/22
 05. Type of Source : open
 06. Type of Analysis : Physical Chemical Bacteriological

TEST	PERMISSIBLE LIMIT	RESULT
01. Turbidity	1.0 - 5.0	<u>4.10</u>
02. Total Dissolved Solid	500 - 2000	
03. PH Value	6.5 - 8.5	<u>6.6</u>
04. Iron	0.3 - 1.0	<u>0.40 ppm</u>
05. Hardness	200 - 600	<u>100</u>
06. Calcium	75 - 200	
07. Magnesium	30 - 100	
08. Alkalinity	200 - 600	<u>2.90</u>
09. Chloride	250 - 1000	
10. Nitrate	45 (No relaxation)	
11. Sulphate	200 - 400	
12. Residual Chlorine	0.2 - 1.0	
13. Arsenic	0.01 (No relaxation)	
14. Fluoride	1.0 - 1.5	
15. BACTERIOLOGICAL		

RESULT	COLFORM	TCOE	RESULT
a) Excellent	No Coliforms/100 ml	Nil	<input checked="" type="checkbox"/> Nil <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Suspicious <input type="checkbox"/> Unsatisfactory
b) Satisfactory	1-2 Coliforms/100 ml	Nil	
c) Suspicious	3-10 Coliforms/100 ml	Nil	
d) Unsatisfactory	above 10 coliforms/100 ml	Nil	

ADVIC: Report, as per as Sample Received

[Signature]
Signature
Asstt. Chemist

[Signature]
Signature
In-charge, Laboratory

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Water supply for drinking and other purposes is maintained by bore wells installed in the campus.



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Drinking Water Facilities- Proper drinking water facilities are made available in the college campus. A cement filter system and RO filter system is there which assures pure drinking water.



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Rain Water Harvesting Unit in the Campus
 Rain water harvesting unit has been installed in the campus.



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6. Energy Use and Conservation

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliance, natural gas and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

Energy source utilized by the campus is electricity only. The entire campus including common facility centres are equipped with LED lamps and LED tube lights, except at few locations. Besides this, the Solar power is generated as an alternate source of energy. Computers are set to automatic power saving mode when not in use. Also, campus administration runs switch-off drill on regular basis.

Rooftop Solar PV System



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Bulbs(94)



Smart Television (21)



Computer & Laptops (121)



Printers (3)

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7. WASTE MANAGEMENT

- ✓ Solid waste management:
 - Dust bins are provided in the campus to keep campus clean, neat and tidy.
 - Awareness on segregation of waste is created and blue and green dust bins are used. Transport arrangements are made for solid waste management.
 - Compost arrangements are also made to convert solid waste into fertiliser/manure.
 - A vermicompost unit is constructed in the college for treatment of sewage.

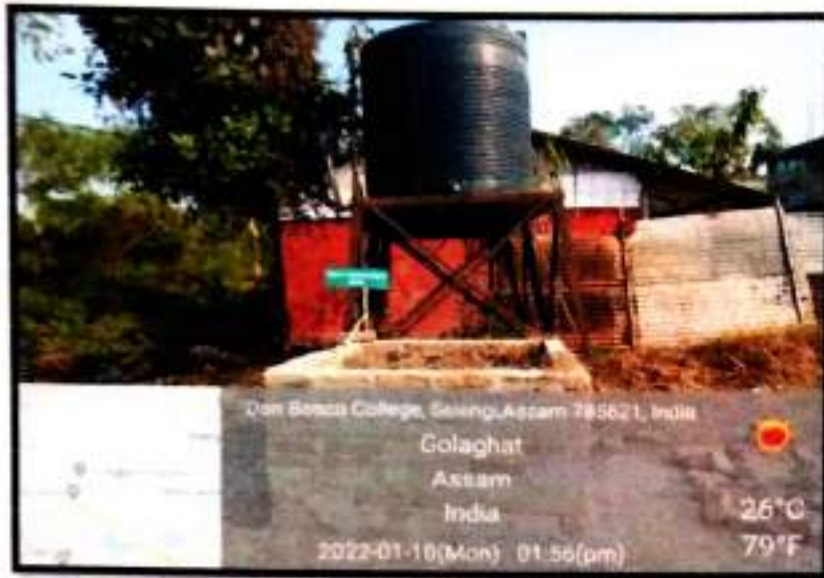
- ✓ Liquid waste management:
 - The liquid waste from the institute, canteen, staffs residential area and other waste from the campus are properly disposed off to a stream through well drainage system.



Dust bins are provided in the campus to keep campus clean, neat and tidy.

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All types of waste are managed in this area



A vermicompost unit is constructed in the college for treatment of sewage.

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8.Green Area Management

This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy is enacted, enforced and reviewed using various environmental awareness programmes.

Campus is located in the vicinity of many trees (species) to maintain the bio-diversity. Various tree plantation programs are being organized at college campus and surrounding villages through NSS (National Service Scheme) unit. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species.



Tea Gardens surrounding the campus

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Green avenues to classrooms


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Some glimpses of plantation programmes.



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List of trees identified during Green Audit

Common Name	Botanical Name	Family
Bokul	<i>Mimusops elengi</i> L.	Sapotaceae
Jacaranda blue	<i>Jacaranda mimosifolia</i> D. Don	Bigoniaceae
Jacaranda pink	<i>Stereospermum kunthianum</i> R. Br	Bigoniaceae
Lagerstroemia	<i>Lagerstroemia indica</i> L.	Lythraceae
Radhasura	<i>Caesalpinia pulcherrima</i> L.	Caesalpinaceae
Krishnasura	<i>Delonix regia</i> (Hook.) Raf.	Caesalpinaceae
Nahor	<i>Mesua ferrea</i> L.	Calophyllaceae
White	<i>Lagerstroemia tomentosa</i> C. Presl	Lythraceae
Pink	<i>Lagerstroemia speciosa</i>	Lythraceae
Ashoka	<i>Saraca asoca</i> (Roxb.) Willd.	Caesalpinaceae
Tamul	<i>Areca catechu</i> L.	Arecaceae
Banana	<i>Musa</i> spp. L.	Zingiberaceae
Coconut	<i>Cocos nucifera</i> L.	Arecaceae
Arjun	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & A	Combretaceae
Royal painciana	<i>Delonix regia</i> (Hook.) Raf.	Caesalpinaceae
Tipa Plant	<i>Tipuana tipu</i> (Benth.) Kuntze	Papilionoideae
Rattleox	<i>Crotalaria spectabilis</i> Roth	Fabaceae
Guava plant	<i>Psidium guajava</i> L.	Myrtaceae
Chinaberry	<i>Melia azedarach</i> L.	Meliaceae
Papaya	<i>Carica papaya</i> L.	Caricaceae
Bauhinia	<i>Bauhinia forficata</i> Link	Fabaceae
Kalanchoe pinnata	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Crassulaceae
Coleus	<i>Coleus scutellarioides</i> (L.) Benth.	Lamiaceae
Mango	<i>Mangifera indica</i> L.	Anacardiaceae
Jackfruit	<i>Artocarpus heterophyllus</i> Lam	Moraceae
Litchi	<i>Litchi chinensis</i> Sonn	Sapindaceae

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9. Conclusion & Recommendations

Don Bosco College is committed to ensure eco friendly campus for the well-being of students, faculty and society at large. There is a significant environmental awareness amongst the faculty and students and initiatives taken by them are substantial. The installation of solar panels, paperless work system, composting and environmental awareness course initiated by the administration shows how the campus is going to be a Green Campus.

Few recommendations are added to curb the menace of waste management using eco-friendly and scientific techniques.

1. There is a requirement of putting in place Scientific methods of garbage disposal
2. Since the buildings are under construction the rejected materials can be better utilized.
3. Single use plastics and non-degradable materials require better disposable methods.


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Annexure I

Certificate received from District Health society for Tobacco free campus



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Annexure II

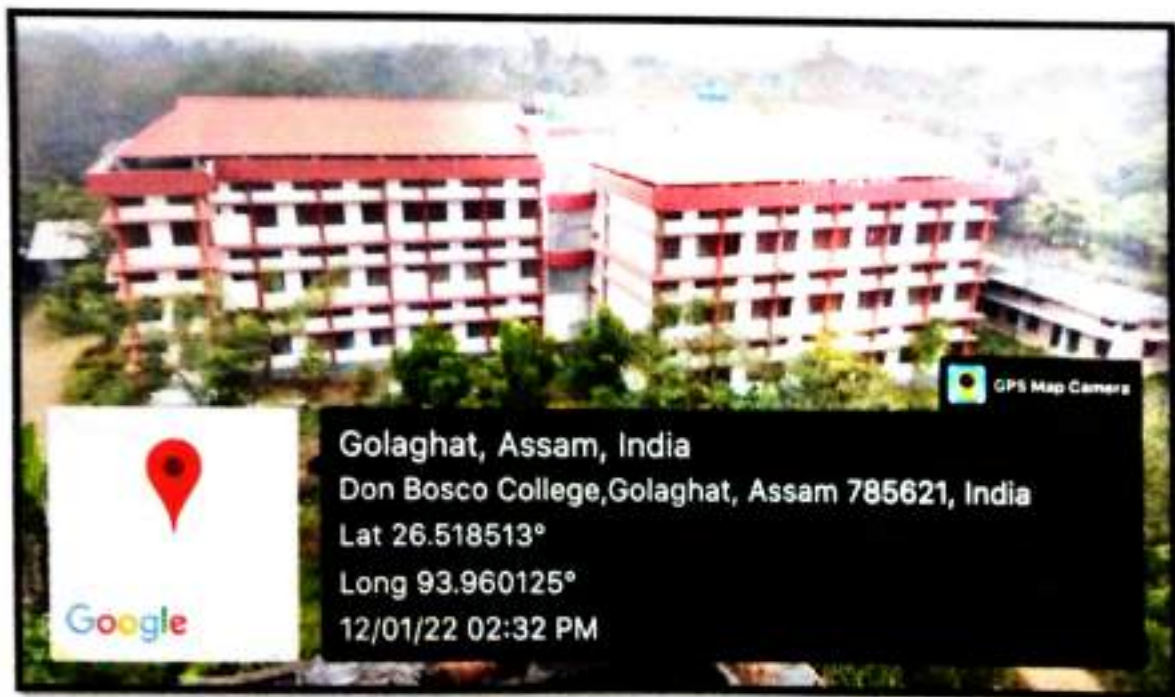
Photographs



Display Boards in the College campus

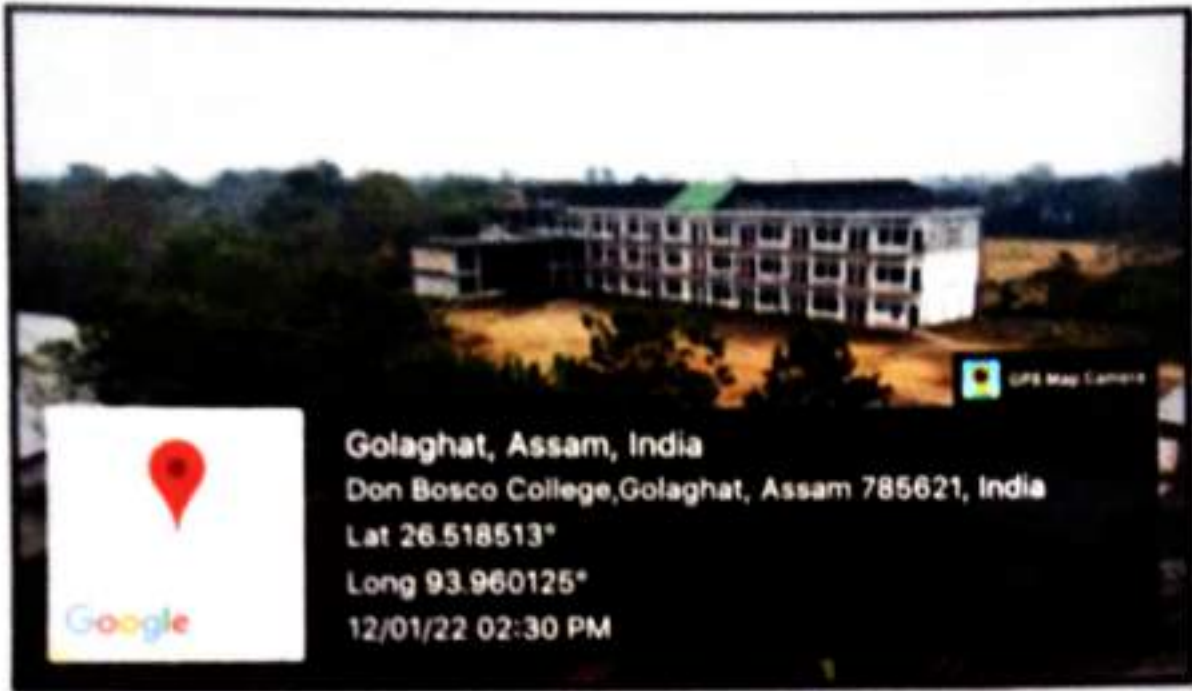
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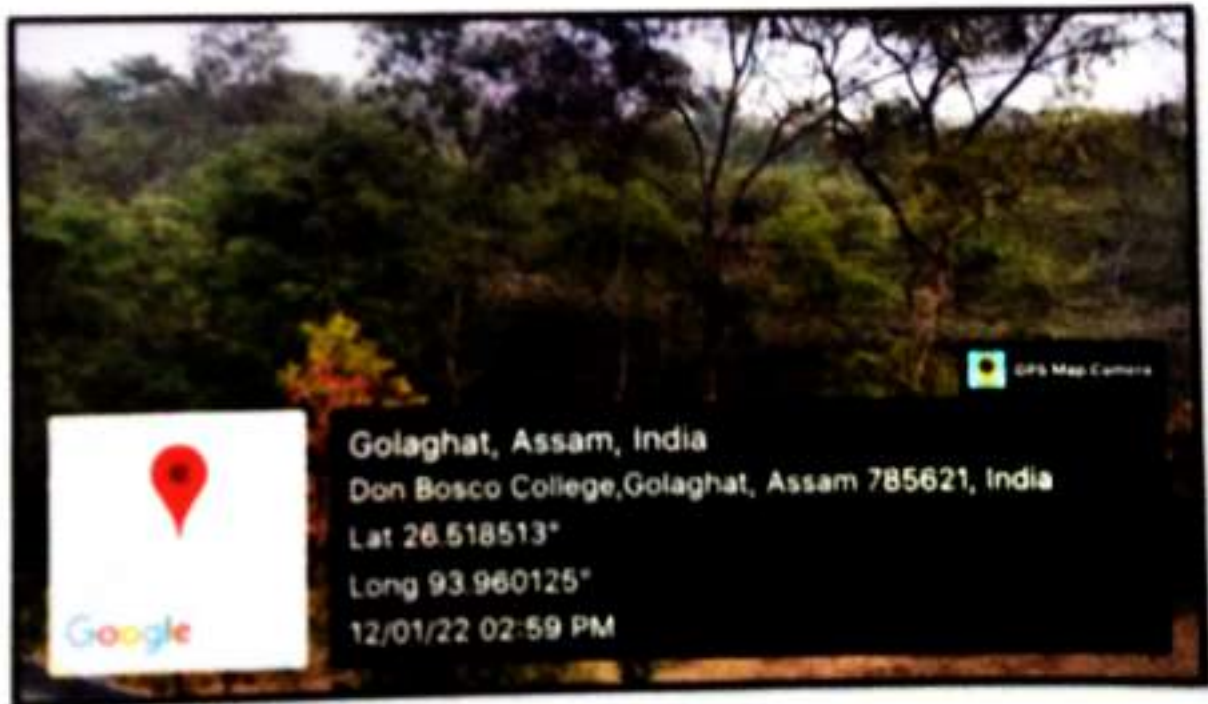


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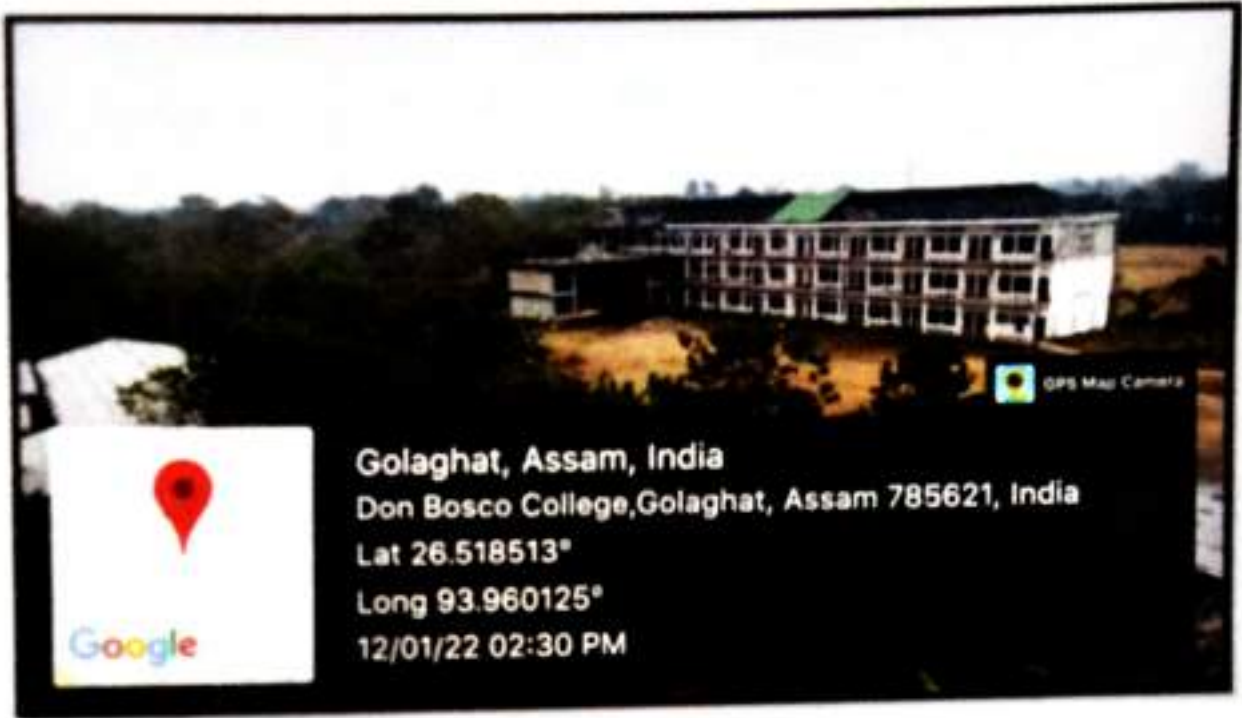
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