



GREEN AUDIT

GOVT. MODEL COLLEGE BORKHOLA

CACHAR, ASSAM

2025-26



PREPARED BY GREEN AUDIT TEAM

GOVT. MODEL COLLEGE BORKHOLA, JARAILTOLA BAZAR, ASSAM



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ACKNOWLEDGMENT

The green audit conducted by Govt. Model College Borkhola in the 2025-26 session has been conducted internally with the aim of highlighting the steps taken by the college to create a healthy and eco-friendly environment in the college in compliance with applicable laws and regulations and as per the expectations of various stakeholders of the college. At a time when environmental degradation and ecological crisis are recognized as having serious adverse effects on the health of present and future generations, it has become necessary for higher education institutions to incorporate healthy practices and infrastructure to promote cleanliness, green cover, regeneration and environmental sustainability. Since the college is still in its infancy, many of the initiatives are currently undergoing and many more measures are planned for the near future. The green audit team acknowledges and is grateful to the principal, administration, teaching and non-teaching staff and students for their encouragement, support and active participation and cooperation in this audit.

Green Audit Team

- | | |
|-----------------------------------|---------------------|
| 1. Dr. Sahabuddin Ahmed: | Principal |
| 2. Dr. Md. MofidurRahman: | Coordinator, IQAC |
| 3. Dr. Md Shalim Muktadir Hussain | NSS Program Officer |
| 4. Dr. Joydeep Goswami | HOD, Sociology |

External Members

1. Dr. Partha Sarathi Das
Associate Professor & Head
Department of Botany & Biotechnology, Karimganj College
2. Mr. Matiur Rahman, AFS
Divisional Forest Officer (DFO)
Social Forestry Division, Sribhumi (Karimganj)



GREEN AUDIT: GOVT. MODEL COLLEGE BORKHOLA

CERTIFICATE

This is to certify that the Green Audit Report of Govt. Model College Borkhola is based on original data collected during the period of study to assess institutional performance against its environmental policies and objectives and its impact on the environment. Further, it is certified that the baseline data of the study has been personally verified by the Green Audit team for validity and reliability. The data used in the study are original in nature and photographs and data are genuine and are taken directly by the audit team or indirectly provided by the internal audit team.

Green Audit External Auditors:

1. Name: Dr. Partha Sarathi Das
Designation: Associate Professor & Head
Deptt. of Botany & Biotechnology, Karimganj College

Partha Sarathi Das

Das
HOD, Botany & Biotechnology
Karimganj College
Karimganj, Assam

2. Mr. Matiur Rahman, AFS
Designation: Divisional Forest Officer (DFO)
Social Forestry Division, Sribhumi (Karimganj):

Matiur Rahman
M Rahman

Divisional Forest Officer
Social Forestry Division
Karimganj



3. COLLEGE PROFILE

Government Model College, Borkhola (GMCB) was set up in the year 2020 in Cachar district under the Assam Government's initiative to set up 15 model colleges in rural areas in the State with financial assistance from Rashtriya Uchchar Shiksha Abhiyan's (RUSA-1.0). GMCB, like other newly created Model colleges of the state, is set up and directly run by the State Government. The college is permanently affiliate to Assam university, Silchar and offers Undergraduate courses following the Four Year Under-Graduate Program (FYUGP) system of Assam University, Silchar and Higher Secondary course in Arts Stream under the Assam Higher Secondary Education Council (AHSEC).

I. Name and Address of the College:

Name: Govt. Model College Borkhola
Address: P.O.-Jarailtola, Dist- Cachar
State: Assam
Website: www.gmcborkhola.org

II. For Communication:

Principal: Dr. Sahabuddin Ahmed
Mobile: 60032-07177
Email: principalgmcb123@gmail.com

III. IQAC coordinator:

Name: Dr. Md. Mofidur Rahman
Mobile: 70029-28586
Email: gumofidur@gmail.com

IV. Status of College by Management: Government

V. Date of Establishment: 2020

VI. Total Campus Area

In Acres:	23.5 acres
In Built up Area:	6 acres



4. OBJECTIVES OF 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 environmental sustainability in accordance with the applicable regulations, policies and standards. The main objectives of the present study are:

1. To inculcate and create awareness among students and stakeholders towards the real concerns of environment and its sustainability.
2. To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use in the campus.
3. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and possess high cost corrective measures.
4. To identify the current practices that can impact on the environment of the college campus.
5. To bring out a present status report on environmental compliance.

5. METHODOLOGY

The methodology while preparing the green audit incorporated different tools such as, preparation of a format for data collection, physical inspection of the campus, observation and review of the documentation, measurements and recommendations. The area covered by the study to summarise the present status of environment management in the campus is Green Area Management. The following areas have been covered under this study:

- Green area management
- Water management
- Energy conservation
- Waste management



6. Green Area Management

Tree Diversity of Govt. Model College Borkhola:

Govt. Model College is located on a scenic carbon-neutral hillock providing a panoramic view of the entire locality. It is enriched with different tree species performing different ecological services. The tree species on campus were planted during different periods with a view to implementing multiple plantation programs. These trees have alleviated the quality of life of the entire college fraternity as well as the people living around the campus by improving air quality, protecting soil from erosion, controlling climate change and supporting wildlife. Animals of different types have dependent on these plants for their food and shelter. The leaves, fruits and flowers are being used by many animals, birds and insects for their life support. The different plant species manifest different shapes, colour and texture. The woody plants located in the college campus help in reducing unpleasant noise, dusty air and devastating storms. The recent study about the flora and fauna found available in the college campus exhibit the rich diversity of trees with a large variety of species. The college also has a well maintained garden tended to by the students and staff, particularly NSS and NCC volunteers on a regular basis. Thus, the green belt of the college has been contributing significantly in maintaining the healthy environment of the entire area. The following are the different tree and plant species found on campus:

Sl. No.	Local/Common name of Tree/Plant	Scientific Name	Number
	Arjun Tree	<i>Terminaliaarjuna</i>	12
	Imli Tree	<i>Tamarindusindica</i>	28
	Krishnachura Tree	<i>Delonixregia</i>	40
	Bokul Tree	<i>Mimusopselengi</i>	25
	Bogoriplant	<i>Zizyphus jujube</i>	5
	Taro/kosu Plant	<i>Colocasiaesculenta</i>	
	Guava	<i>Psidiumguajava</i>	15
	Aidin Plant	<i>Adina</i>	
	Durun Plant	<i>Leucas</i>	
	Dhekiya plant	<i>Diplaziumesculentum</i>	
	Rose plant	<i>Rosa</i>	10
	Erica Palm	<i>Dypsislutescens</i>	8
	Lemon Tree	<i>Citrus Limon</i>	4
	Haldi Plant	<i>Curcuma longa</i>	
	Boroi Tree	<i>Zizyphus jujube</i>	32
	Noroxingho Plant	<i>Murrayakoeniggii</i>	
	Betel Nut Tree	<i>Areca catechu</i>	35
	Bonak tree	<i>Schimawallichii</i>	75
	Bot tree	<i>Ficusbenghalensis</i>	48
	Kalauja Tree	<i>Ehretia acuminata</i>	53
	Mango Tree	<i>Mangiferaindica</i>	34

	Jackfruit Tree	<i>Artocarpusheterophyllus</i>	28
	Lukluki Tree	<i>Flacourtiajangomas</i>	8
	Chattni Tree	<i>Alstoniascholaris</i>	25
	Hijal Tree	<i>Alstoniascholaris</i>	14
	Jarail Tree	<i>Lagerstroemia speciosa</i>	20
	Bonjarail Tree	<i>Bombaxceiba</i>	27
	Haritaki Tree	<i>Flacourtiaindica</i>	45
	Coconut Tree	<i>Cocosnucifera</i>	10
	Jolpai Tree	<i>Elaeocarpusserratus</i>	25
	Kadam Tree	<i>Neolamarckiacadamba</i>	17
	Forish Tree	<i>Cassia siamea</i>	25

Faunal Diversity of Govt. Model College Borkhola:

Govt. Model College Borkhola is very rich in biodiversity. We have observed a significant number of birds on campus and seen different types of bird nests at many places. This avian diversity indicates the healthy and balanced ecosystem for breeding, nesting and feeding ground for birds. Since the college is located on a hillock, a number of wild species of birds are also seen from time to time. Similarly, a number of wild animals and reptiles are also observed around campus. However, they possess no threat to the students and faculty of the college. The area around the college is home to a number of herding families. Their cattle use the vegetation around the college for grazing. Following is a list of the animals, birds and reptiles around the college campus:

Sl. No.	Local Name of Bird/Animal	Scientific Name
1	Monkey	<i>Cercopithecidae</i>
2	Goat	<i>Capra aegagrushircus</i>
3	Cow	<i>Bos Taurus</i>
4	Hen	<i>Gallus GallusDomesticus</i>
5	Rooster	<i>Gallus Gallus</i>
5	Dog	<i>Canis Lupus Familiaries</i>
6	Pigeon	<i>Columbidae</i>
7	Sparrow	<i>Passeridae</i>
8	Crow	<i>Corvus</i>
10	Dove	<i>Columbidae</i>
11	Crane	<i>Gruidae</i>
12	Myna	<i>AcridotheresTristis</i>
13	Cuckoo Bird	<i>Cuculidae</i>
14	Woodpecker	<i>Picidae</i>
15	Goldfinch	<i>Spinustristis</i>

To generate interest in nature conservation and to inculcate social responsibility towards a green and clean environment the college undertakes several eco-friendly initiatives within and outside the campus. Some of these activities are as follows:



- Plantation and caring of plants inside and outside campus.
- Timely and safe disposal of campus waste.
- Celebration of important days like World Environment Day, Biodiversity Day etc. and commemoration of birth/death anniversaries of important individuals with plantation and cleanliness programmes.
- Swacch Bharat Cleanliness Programmes around the year under the NSS.
- Encouraging plastic free and littering free campus.
- Potted plants in departments wherever possible.

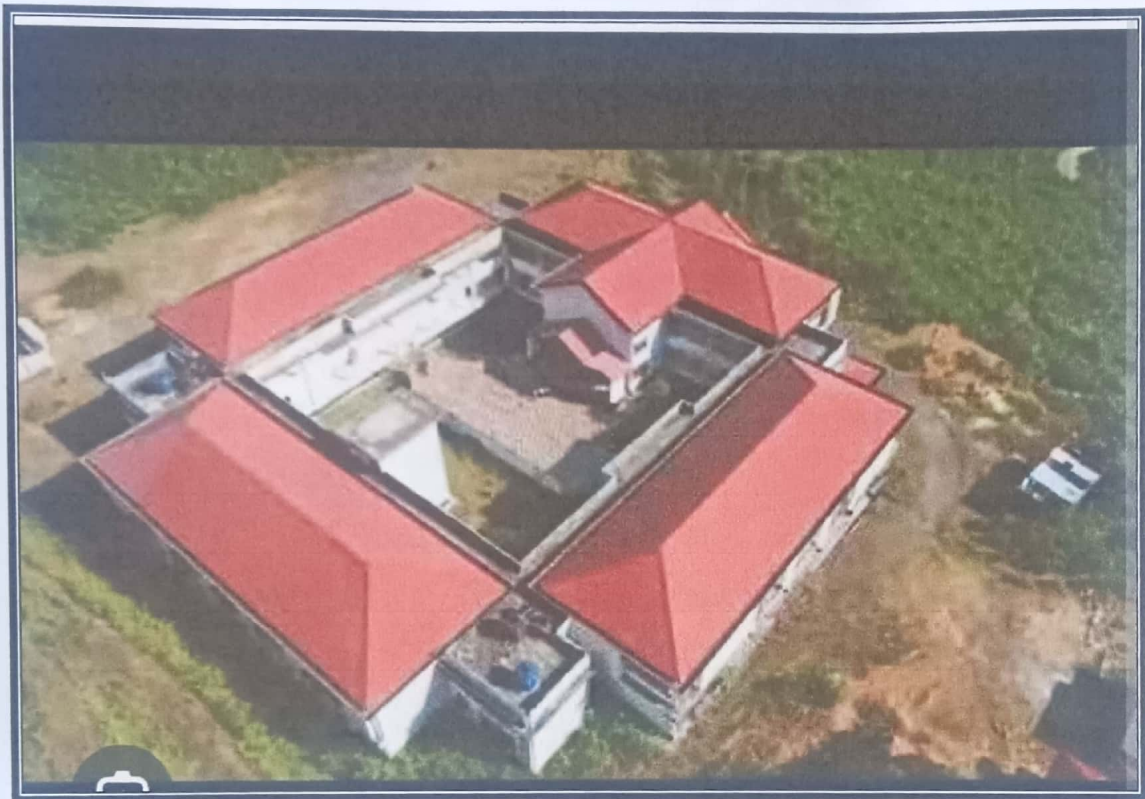


Fig: Aerial view of college



Fig: View of planted area on campus

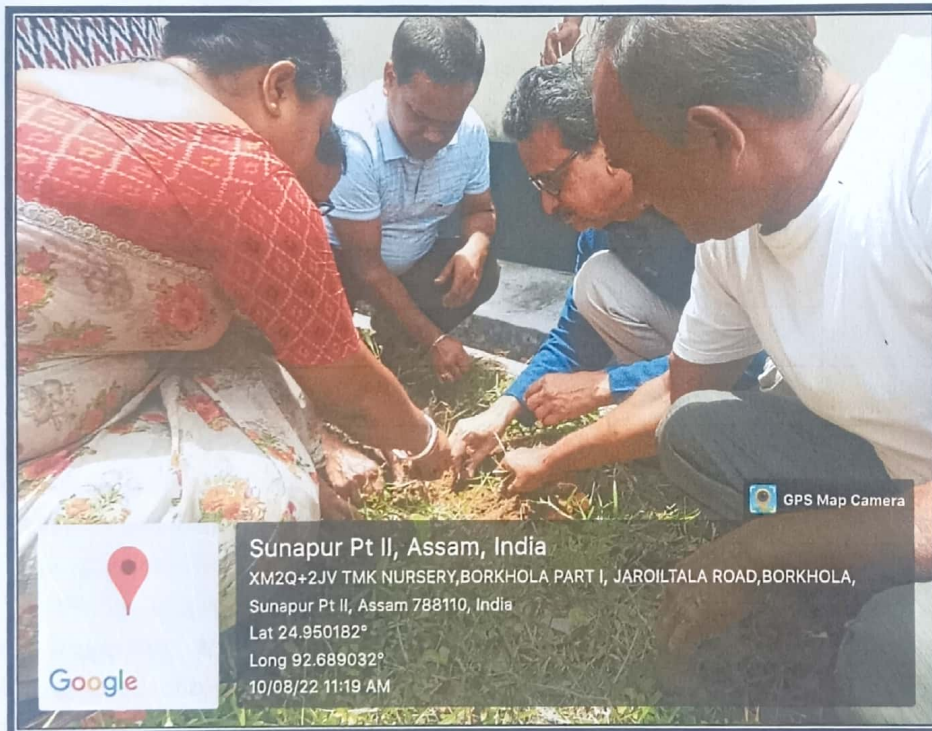


Fig: Plantation by Principal, GMCB with members of the local community



Fig: Sapling Planted in the Memory of Late ZubeenGarg

8. Water Management at Govt. Model College Borkhola

Water use and its proper management is necessary to maintain a well-structured hygienic atmosphere in the college premises. RUSA support and the administration of Govt. Model College Borkhola have maintained the basic requirements of water management and water facilities for all the students and staff of the college. The source of water used in the college premises is groundwater raised via bore well and filtered before use. The conserved water stored in all the available tanks is used in the washrooms, for watering plants and for drinking. Regarding drinking water, timely check-up of all the filters is arranged with adequate systems. Proper outlet in specific places and appropriate drainage are also systematized for releasing excess water (used water too) from the water tanks and taps. As a whole, the college has deliberately maintained a well-framed water management system in the premises.



Details of items where water is used:

Sl. No.	Identity of Item (Capacity/Size)	Total No.
1	Water Tank (1000 liters)	4
2	Water Tank (2000 liters)	4
3	Borewell	1
4	Water Pump	1
5	Water Purifier	1
6	Water Tap	103
7	Electronic Motors	2
8	Washrooms	24

Overall Water Consumption in College: 7.7k litres/day

Sl. No.	Water Used For	Water Use (Liter/Day)
1	Drinking Water	600 litres
2	Toilets and Urinals	7000 litres
3	Gardening	100 litres
	TOTAL	7700 litres

Water Audit Observations:

- Minimal Water wastage has been observed.
- Some taps and pipes require repair.
- Requirement of more drinking water stations

Recommendations:

- Taps and water pipes to be repaired.
- Acquire at least two cooler drinking water stations.
- Proposed increasing the number of washrooms.
- Instalment of water treatment system.
- Instalment of rainwater harvesting system.



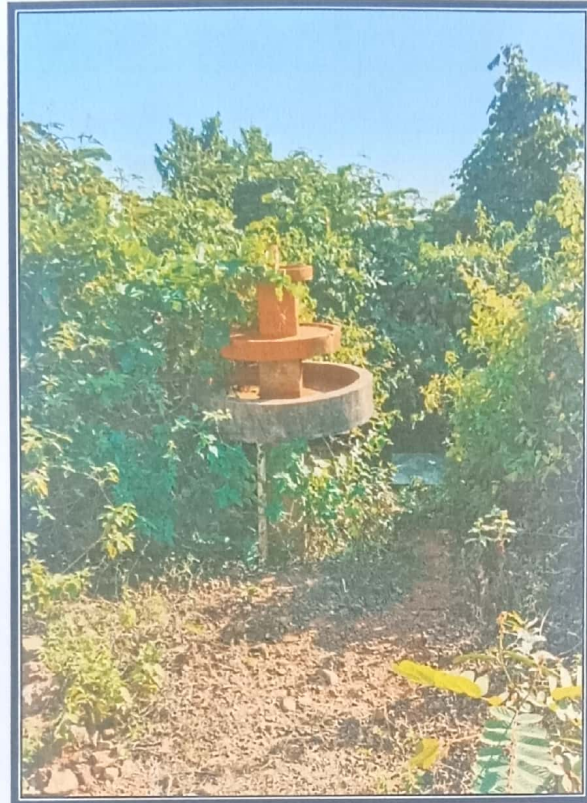


Fig: Water management system, GMCB

9. Energy Management at Govt. Model College Borkhola

Since a significant amount of energy is required for the running of an institution, it is important that staff and students adopt good energy management practices so that there is no wastage. Following are the electrical installations in the college:

Sl. No	Item	Number
1	Tube Lights	620
2	LED lights	22
3	Ceiling Fans	481
4	Computers	23
5	Printers	6
6	CCTV Cameras	25
7	Water Filter	1
8	LED TVs	1
9	Water Pump	2
10	Projector	1
11	Interactive Smart Display	1
12	Sound System	3

Electricity consumption per year: 4500 units



Electricity savings methods adopted by college:

- Turning off all electrical equipment when not in use.
- Using energy efficient LED bulbs.

Recommendations:

- Installation of solar panels.
- Phase wise replacement of tubelights with LED lights.
- Regular awareness programmes and best practices aimed towards the smart utilization of energy.



Fig: Energy management system, GMCB

10. Waste Management at Govt. Model College Borkhola

Waste is aesthetically unpleasant and can cause environmental degradation as well as health problems. Human activities generate waste and it is very essential that the waste is collected, stored, handled and disposed of properly. Waste is found in solid, liquid and e-waste forms. Solid wastes can be categorized into three types- biodegradable, non-biodegradable and hazardous waste. Unscientific management of waste through dumping in pits or burning them may cause the harmful discharge of contaminants into soil and water supplies and produce greenhouse gases contributing to global climate change. So, special attention should be taken for scientific management and handling of waste generated in the college campus. Minimization of waste is essential for sustainable environment of the college campus.



Sources of Waste Generation and Status of Waste in the College Campus:

Each and every academic department of the college creates different categories of waste such as solid waste, liquid waste, e-waste and hazardous waste in the college campus. To collect all these waste materials, 3 big dustbins are placed at different corners of the campus. Along with it, all departments keep their separate dustbins inside the department. The wastes collected by the MTS staff of the college on a regular basis. On an average, various stakeholders generate 4kg of biodegradable wastes and 3kg of non-biodegradable wastes per day. All the waste is then dumped at one point on campus and burnt altogether. Plastic and waste paper is also collected by the NCC cadres and NSS volunteers at frequent intervals. Plant litter is regularly collected and either used as compost or burnt at various locations on campus. Sanitary napkins are also disposed with proper care. The college has a proper drainage system to drain liquid waste. Faecal waste is collected in hygienic septic tanks.

The following are the details of waste generation and disposal on campus:

Total Number of Students	371
Total Number of Teaching Staff	16
Total Number of Non-Teaching Staff	8
Total Number of Gardens	1
Total Number of Garbage Dumps	1
Total Number of Big Dustbins	3
Total Number of Small Dustbins	25
Total Number of Toilets	6
Bio-degradable waste (canteen, office and departments)	4 kg/day
Non-bio-degradable waste (canteen, office and departments)	3 kg/day
Bio-degradable waste (food wastes, canteen waste, toilet waste etc.)	Waste bins are placed at several points of the college to collect wastes by the cleaners and these are dumped inside the college campus.
Non-bio-degradable waste (paper, paper-plate, paper cup, plastic, glass, tin, metal etc.)	Big dustbins are placed in several points in the college campus and small dust bins are used by the stakeholders of different departments and administrative offices to collect the non-bio-degradable wastes for disposal by burning.

Recommendations:

For better waste management the following suggestions are given-

- Adequate number of big dustbins should be set up on campus.



- A concrete waste disposal pit should be made as soon as possible for disposing the non-degradable waste of the college campus.
- A vermicompost pit should be made in the college campus for composting the bio-degradable waste of the college.
- MoU should be done with the local waste managing committees and/or with the municipal board of the nearby town.
- A sanitary napkin incinerator should be acquired by the college.

11. Green Initiatives Taken by Govt. Model College Borkhola

The green initiatives undertaken by the college include awareness camps, talks, workshops, plantation and cleanliness drives etc, with the active participation from faculty members, students and community members. The college has signed MoUs and worked with various environmental agencies to create a feeling of collective ownership and responsibility towards the environment and to work towards raising awareness and working towards building a healthy and sustainable world.

The following is a list of selected green initiatives undertaken by the college since its inception:

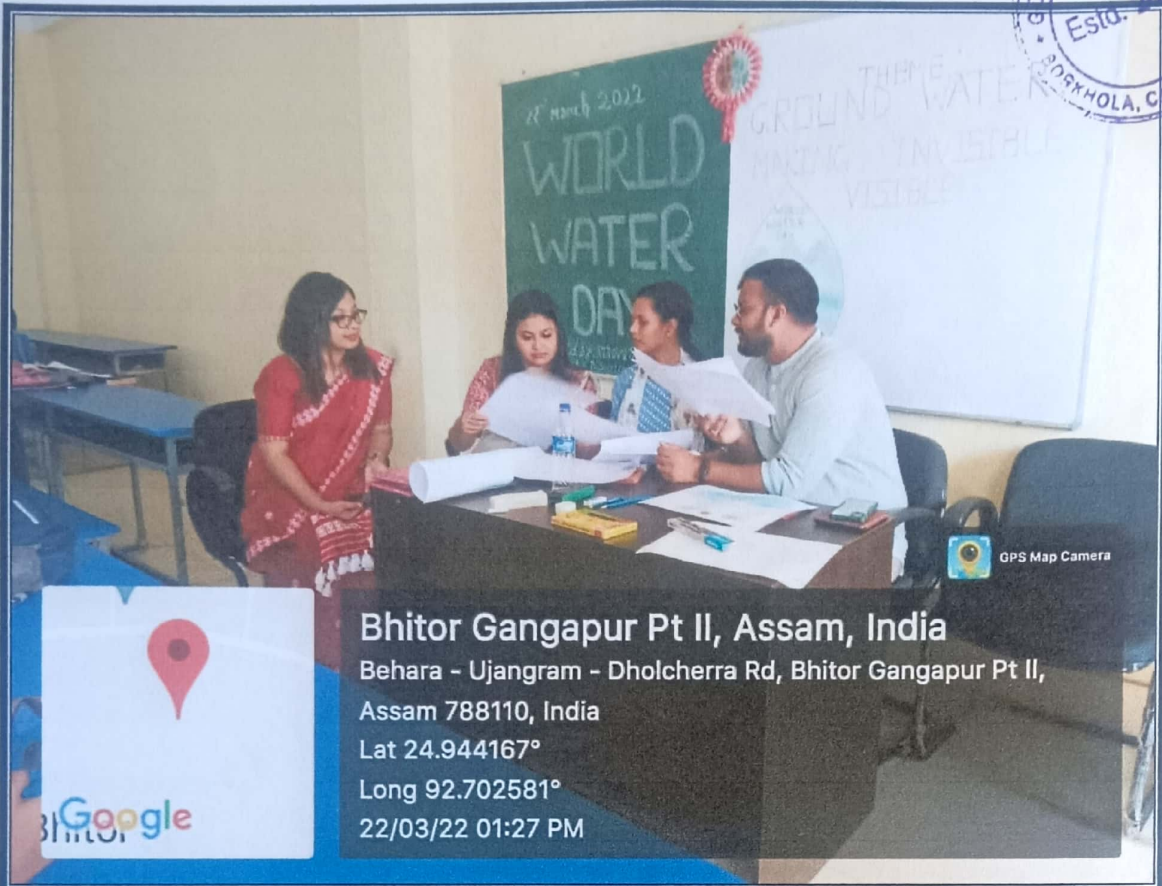
Sl. No.	Activity	Date and Venue	Occasion	Organized by
1	World Water Day observation. "Ground water: Marking the invisible visible"	College campus, March 22, 2022.	World Water Day	Departments of Sociology and Political Science
2	1-month Sapling Plantation Programme	College campus, July 15- August 15, 2022	Chief Minister's Institutional Plantation Programme	NSS, in collaboration with all teaching departments and library
3	State-Level Essay Writing Competition on 'Role of Youth in Nation Building'	College campus, 12 th January 2023	National Youth Day	
4	Awareness program on Menstrual Health and Hygiene by Dr. Abdul Bareque.	27 th May 2023. SaraswatiVidyaMandir, Jarailtola	World Menstrual Hygiene Day	Women's Cell
5	Week-Long Awareness Camp on <i>Mission Life</i> . Quiz, extempore speech art competition, plantation	1-7 June 2023. College campus and government schools of Borkhold Development Block	World Environment Day	Department of Sociology, SAKSHAM South Assam and Nehru Yuva Kendra

				Sangsthan, Cachar
6	Plantation Of Saplings under AmritBrikshaAndolan	31 July- 15 August and 11-17 September 2023. College campus and community.	Amrit BrikshaAndolan of Govt. of Assam	Department of Sociology
7	Swachhata Hi Seva Cleanliness Program. (Organised by NSS)	25 th September- 1 st October 2023, College Campus, community, Jatinga riverbank	Swachhata Hi Seva	NSS
8	Awareness program on 'Land Restoration, Desertification and Drought Resilience', plantation program	College Campus, 5 th June 2024	World Environment Day	Equal Opportunity Cell in association with teaching departments
9	Cleanliness Drive	College campus, 12 th January 2024	National Youth Day	
1	Vikshit Bharat Paragraph Writing Competition	College Campus, 31 st January 2024		
1	Talk on 'Female Health and Hygiene'	Community Hall, Jarailtola. 8 th April 2024	World Health Day	Women's Cell, IQAC, NSS, Department of Education
1	Awareness Program on Menstrual Health and Hygiene	Chandranathpur M.E. School. 27 th May, 2024	Word menstrual Hygiene Day	Women's Cell, Department of Education
1	Swacchata Hi Seva Cleanliness Program	27 th September 2024- 30 th September 2024	Swachhata Hi Seva	NSS
1	Mission Mati. Donation of earthen lamps "মাটির প্রদীপ"	1-30 October 2024	Mission Mati	Sushruta Health Club, department of Sociology
1	Awareness Camp On "Water Preservation And Purification"	21 st March 2025		PHE Division II Silchar and Department of Sociology
1	Plantation Drive "EkPedMaaKeNaam"	22 nd September 2025		Department of Sociology under SevaSapath Scheme
1	Mission Mati. Donation of earthen lamps "মাটির প্রদীপ"	7-20 October 2025	Mission Mati	Sushruta Health Club, department of Sociology



12. Annexure: Photographs, posters, letters etc





Bhitor Gangapur Pt II, Assam, India
Behara - Ujangram - Dholcherra Rd, Bhitor Gangapur Pt II,
Assam 788110, India
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Long 92.702581°
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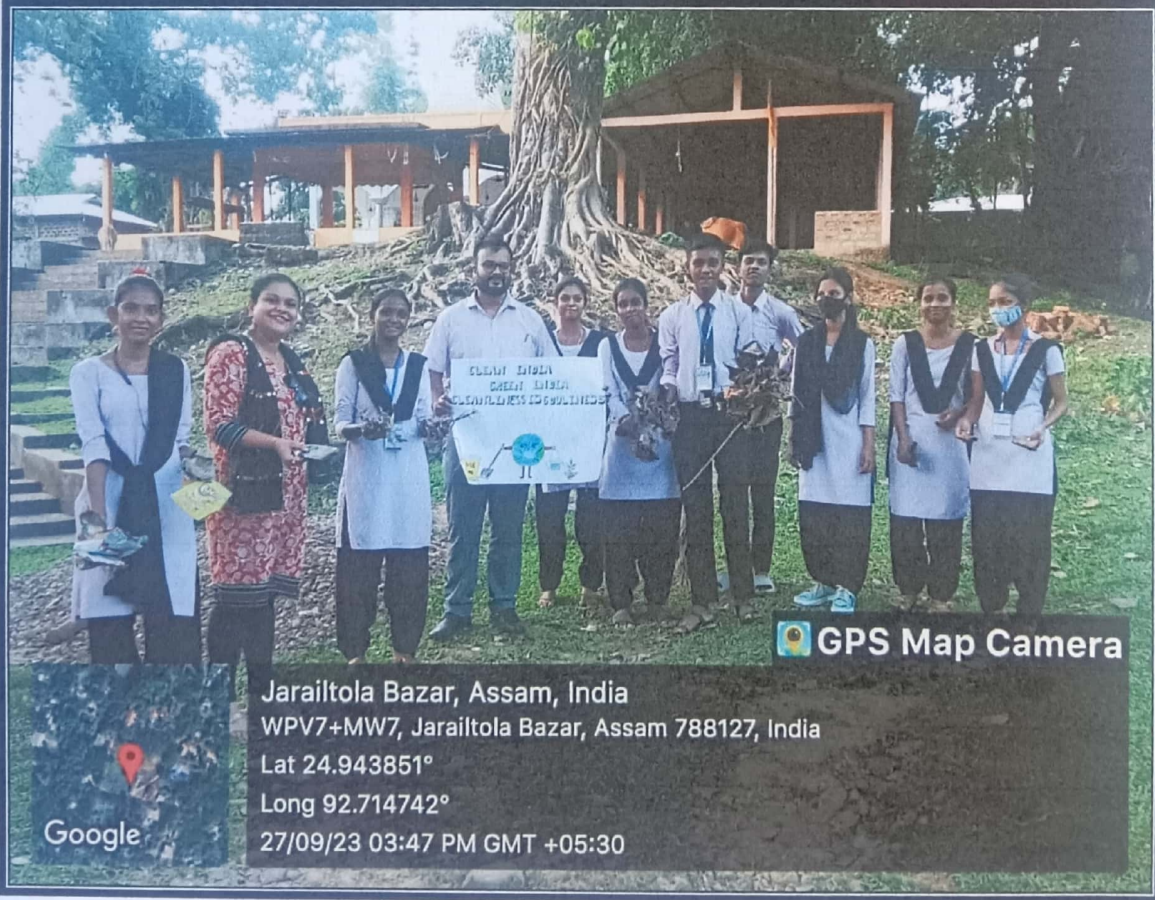


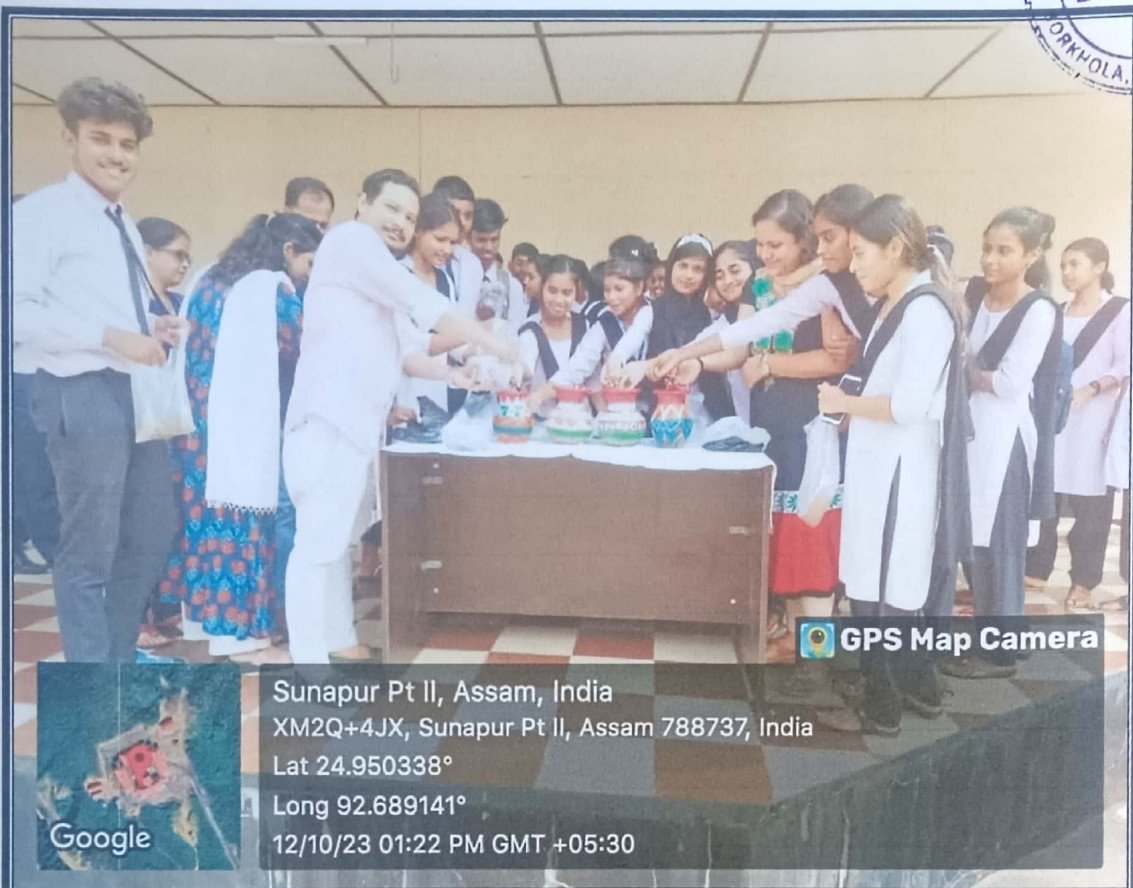
Sunapur Pt II, Assam, India
XM2Q+2JV TMK NURSERY,BORKHOLA PART I, JAROILTALA
ROAD,BORKHOLA, Sunapur Pt II, Assam 788110, India
Lat 24.950018°
Long 92.689268°
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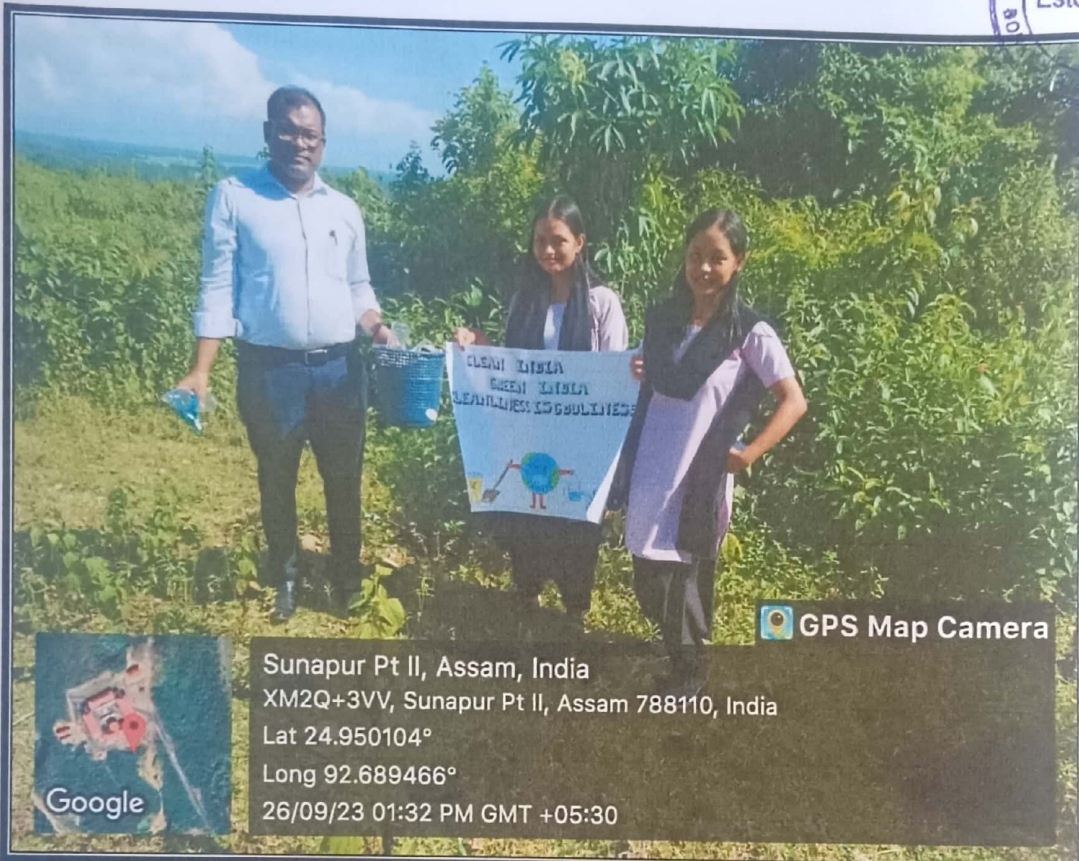
GPS Map Camera











Sunapur Pt II, Assam, India
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Lat 24.950104°
Long 92.689466°
26/09/23 01:32 PM GMT +05:30







GPS Map Camera

Sunapur Pt II, Assam, India
TMK NURSERY, BORKHOLA PART I, JAROILTALA ROAD, Borkhola Rd,
Sunapur Pt II, Assam 788110, India
Lat 24.950073°
Long 92.689314°
15/08/24 11:15 AM GMT +05:30

Google



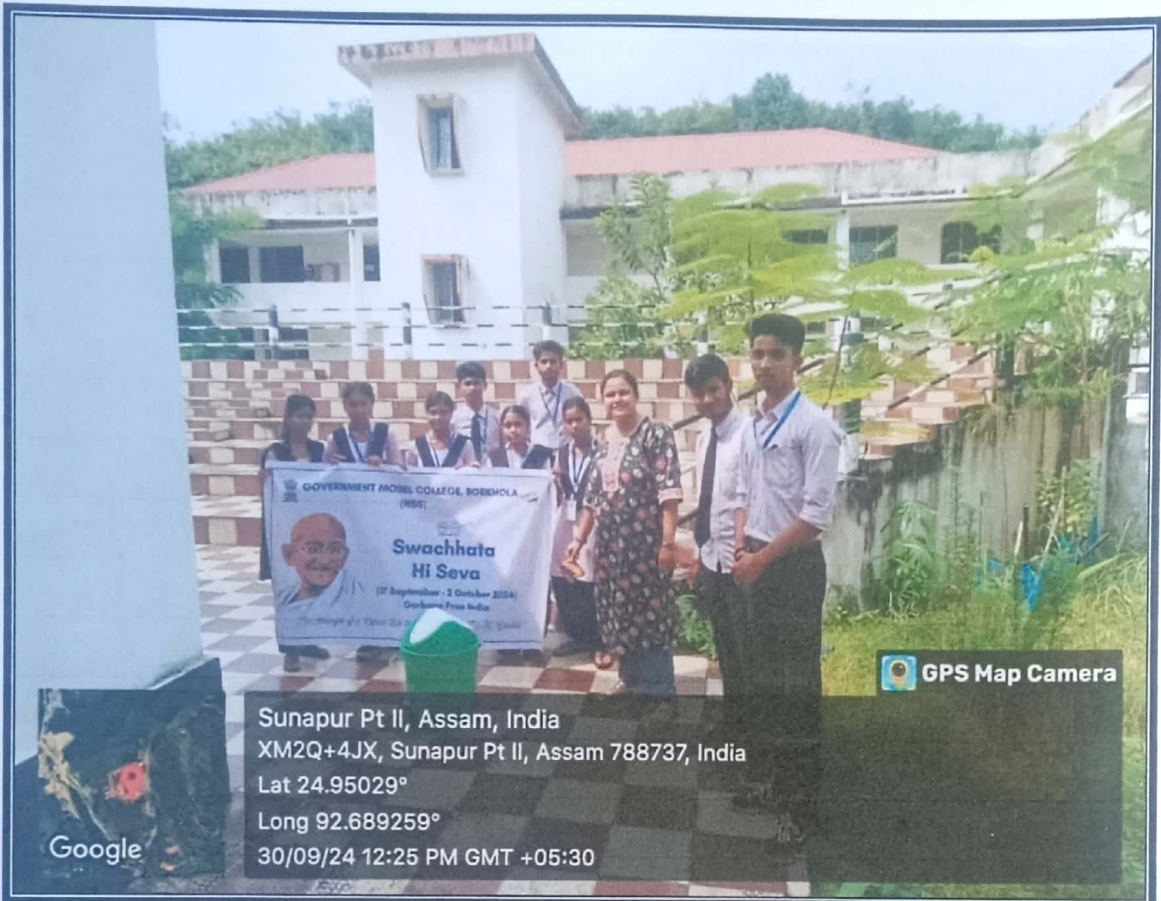






Fig: Photographs from various Green Initiatives by Govt. Model College Borkhola

