

7.1.3

Green audit / Environmental Audit Report from Recognized Bodies



TEHATTA SADANANDA MAHAVIDYALAYA

A WEST BENGAL STATE GOVERNMENT AIDED DEGREE COLLEGE

AFFILIATED TO THE UNIVERSITY OF BURDWAN

ESTABLISHED – 2013

★ P.O – TEHATTA ★ DIST. – PURBA BARDHAMAN ★ PIN – 713122 ★

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**TEHATTA SADANANDAMAHAVIDYALAYA
TEHATTA, PURBA BARDHAMAN**

ESTD. 2013

**ENVIRONMENTAL AUDIT/
GREEN AUDIT REPORT
[2022-'23]**

*Prepared by
The Audit Committee
The University of Burdwan*

Date: 29/04/2024

AUDIT REPORT ON ENVIRONMENTAL AUDIT/ GREEN AUDIT

CERTIFICATE

This is to certify that the Environmental Audit/ Green Audit Report and Energy Monitoring & Management System followed at Tehatta Sadananda Mahavidyalaya, Tehatta, Purba Bardhaman, West Bengal is based on the original data collected during the period of 2022-'23. It has been assessed and is applicable to provide quality ambience for continued Higher Education, Training and Mental health to the students for their smart future and career. Further, it is certified that the baseline data was prepared by internal College Green Committee team members of Tehatta Sadananda Mahavidyalaya, Tehatta and submitted to us. The content of the baseline data of the study and Energy Monitoring & Management System has been personally verified by the Expert Team constituted by the University of Burdwan for validity and reliability. The data used in the study are original in nature and have not been presented or published elsewhere. Data & Photographs used in the report are taken by the internal College Green Committee during preparing their Report of the concerned year 2022-'23.


29/04/24

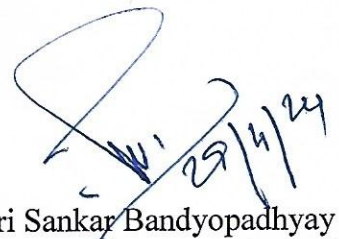
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Date: 29/04/2024

To
The Principal
Tehatta Sadananda Mahavidyalaya
Tehatta
Purba Bardhaman
West Bengal

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Subject: Environmental Audit Report Submission from Experts

Sir

After verification of all the aspects in the College and necessary assessment of the report on "Environmental/ Green Audit" mentioning the "Energy Monitoring & Management System" submitted by your College for the period of 2022-'23, here, we are submitting the Audit Report of "Environmental/ Green Audit" of your College of the period of 2022-'23 for your kind perusal in the attached sheet.

We request you to please acknowledge and oblige.

Yours sincerely,


29/04/24

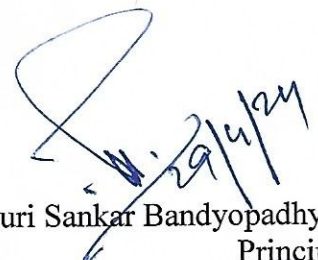
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Report of Environmental Audit/Green Audit

1.0 Introduction

The Environmental Audit or Green Audit is a systematic identification, quantification, recording, reporting and analysis of the different components of environmental diversity. The 'Environmental Audit'/'Green Audit' aims to assess the various parameters involved in environmental practices in and around the HE Institutional campus, actually, it means to impress the congenial and environment-friendly atmosphere for the all stakeholders. It is formulated with an objective of looking after the practices performed by the authority within the institution, otherwise which may cause risk to the health of dwellers and the environment. Under the present format of AQAR and SSR Environmental Audit/Green audit is a mandatory parameter as per requirement of National Assessment and Accreditation Council (NAAC) which is a self-governing organization of India which declares the Institutional Grade.

2.0 History of College

Tehatta Sadananda Mahavidyalaya, Tehatta, Purba Bardhaman, a co-educational HE Institution is the only Degree College in Kalna Block II was established on 2013 under the affiliation of the University of Burdwan since its establishment. College was established by the generous and enthusiastic people of the local area and gradually became a place of educational opportunity in the heart of rural outskirts

The establishment of Tehatta Sadananda Mahavidyalaya, Purba Bardhaman stands as a testament to the commitment to educational accessibility, addressing the needs of the local students and fostering a conducive environment for higher learning. Now, College offers 6 UG Hons. courses, and three Program Courses. The College possesses a beautiful lush green ambience. The canopy of the trees provides carbon neutrality and also hosts a wide variety of birds.

Since inception College is maintaining its academic and administrative excellence, and has been continuously upgrading the curricula and infrastructure in order to improve the quality of education. College maintains an administrative hierarchy in College management. The authorities in line with one of its mission of improvement by raising the realm of 'fostering passionate pursuit for academic and intellectual excellence'. So, the College is to look into its strengths and weaknesses and identify the scope of further improvement.

Now, the College voluntarily has started the Environmental/Green audit for the year 2022-23 to look into its clean ambience and save environment slogan maintaining congenial environment in the Campus.

3. Executive Summary

In accordance with the "Format of Green Audit: Questionnaire", Tehatta Sadananda Mahavidyalaya, Tehatta, Purba Bardhaman, the audit is performed on 29th of May, 2024. The purpose of the audit was to propose some best practices to be followed in near future in the campus which are in accordance with the Green Policy. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability.

The analysis was based upon a physical examination of the different sectors including green areas *etc.*, and standards that govern the environmental sustainability, and on the results of

preliminary interviews with personnel considered key in the environmental management in the campus.

The methodology used included the physical inspection of the campus, review of the relevant documentation and interviews.

4. Observations

a. General

College has a total campus area of 20477.09 sq. m. and green area of 18656.01 sq. m.

College has taken some efforts for sustainable development in the College campus and to maintain greenery.

1. College has constituted "College Environmental Committee", and Eco Clubon 2023.
2. Some of the best practices such as maintaining tree plantation, introducing plastic free zone, celebration of World Environment Day, Earth Day, Blood Donation Camp, Women's Day, etc., are followed in the campus.
3. College organises Tree Plantation Programs on regular basis.
4. College has one dumping pit. Disposal of all degradable and non-degradable solid wastes is followed through its own system.
5. College has conducted Environmental Awareness programmes on regular basis for faculty and students, and involved the students in maintaining the cleanliness of the campus.
6. College maintains the ecological balance in the campus through maintaining gardens in different places for beautification, fruit-plantation, etc.
7. Rainwater is directly discharged into drainage system.
8. College has prepared the proposal of installation of Solar Panel.
9. College has taken initiative for preparation of vermicomposting pit.
10. One unit of NSS is actively engaged in green maintenance inside and outside the college campus.

b. Suggestions

1. College is requested to reframe the constitution of College Environmental Committee and Green/Environmental Policy.
2. College is requested to maintain the gardens at different locations through students of different departments.
3. Medicinal Garden should be maintained properly.
4. Butterfly Garden be maintained properly.
5. Students should be trained to handle the PBR through workshop, etc., mapping of plants be done accordingly.
6. Increase the use of LED as much as practicable by replacing the tube light, etc.
7. Existing composting be managed properly.

5. Statement of Assurance

This audit has been conducted in accordance with the report submitted by the College Environmental Committee. On the basis of the data and physical inspection audit procedure was completed and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit with the established criteria.

GREEN AUDIT WORKING FORMAT

6. Audit Framework and detailed findings

The following audit framework is used for conducting Green Audit during the period of 2022-'23. The framework also lists the findings and observations for every criterion.

Control objectives	Control(s)	Audit Observations
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse	Reduce the absolute amount of waste that it produces from the Institute & Staff offices.	The College has used some control measures to reduce the amount of waste that it produces from the departments, staff offices, inside Campus, etc. <i>Segregation method to be followed for disposing.</i>
	Make full use of all recycling facilities provided by City Municipality and private suppliers, including glass, cans, white, coloured and brown paper, plastic bottles, batteries, print cartridges, cardboard and furniture.	College is managing its all wastes through its own system. <i>Formal Agreement/MoU may be signed with Local Body.</i>
	Compost, or cause to be composted, all organic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and rooms.	The College uses different bins for disposal of different types of wastes. <i>The fallen dead leaves from the garden be managed properly in the composting/cistern pit.</i>
	Recycle or safely dispose of white goods, computers and electrical appliances.	<i>Safe disposal methods should be adopted for electrical wastes, printer cartridges, etc., through proper disposal methods in near future.</i>
	Use reusable resources and containers and avoid unnecessary packaging where possible	College is following some steps for solid waste management and reusable resources.
	Provide sufficient, accessible and well-publicized collection points for recyclable waste, with responsibility for recycling clearly allocated	The College has limited scope of accessible and well-publicized collection points for recyclable waste.
Minimize the quantity of wastes during special events/occasions	Make specific arrangements for events, such as cultural Events, internal and external seminars and conferences, where significant recyclable waste is likely to be produced, in order to both minimize the waste produced and maximize what is recycled/reused	Amount of wastes generated during special events or occasions, such as Cultural Events, International and National seminars and Conferences, etc., be disposed through Local Body.

Control objectives	Control(s)	Audit Observations
	Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives	The College has limited scope of reuse of items and waste recycling among staff, students and conference guests through some incentives.
	Dispose all waste, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment	Yes, the College disposes all wastes, whether solid, liquid or otherwise, through its own collection system and ensures that it is not released directly to the environment.
Reduce energy consumption, especially of energy derived from fossil fuels	Support renewable and carbon-neutral electricity options on any energy-purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.	College follows paper-less communications through using digital media like Website notice, Whatsapp, generate e-notice for academic/administrative purposes.
	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity	<i>College is required to install new sources of renewable sources of energy and carbon-neutral electricity like solar street panels.</i>
	Look into the possibility of on-site micro-generation of renewable electricity.	College has submitted a proposal for installation of SOLAR PANNELS.
	Give preference to the most energy efficient and environmentally sound appliances available, this includes only using energy-saving light bulbs	The College is using LED as much as possible.
Effective energy consumption and management practices	Encourage staff, students and conference guests to save energy through visible reminders, incentives and information to increase awareness. This particularly concerns turning off electrical appliances when not in use in both communal and residential rooms	College has a mechanism to reduce the misuse of electricity by turning off the appliances when not required through MCP. <i>All the stakeholders are to be aware and doing their best and practices to save electricity.</i>
	Ensure that all electronic and electrical equipment's, such as computers, are switched off when not in use, and is generally configured in power saving mode when such option is available	Students and all the members are used to follow this practice.
	Ensure that the equipment's running on standby mode, reduce the energy consumption on standby mode or minimize the running of equipment's on standby mode	Maintaining energy saving mechanism for most of the instruments; some of the equipment's are running on standby mode.

Control objectives	Control(s)	Audit Observations
	Purchase efficient and environmentally sound appliances and consider replacing old stock with 'greener', more efficient alternatives.	Presently, College is using environmental-friendly appliances as much as possible and taking initiative to replace the tube lights with LEDs, etc., as effective alternatives.
Minimize the use of unsustainable transport	Make available information about bicycle and pedestrian routes, public transport services and car share schemes to staff and students.	The College is connected through bus services; usually, most of them avail bus services.
	Reduce the proportion of travel on the University/Institute business carried out in private transport and eliminate unnecessary and inefficient use of the University/Institute vehicles	College does not have any common bus services to all stakeholders. College has one cycle stand for students as well as staff members.
	Promote car sharing / car pool among the students and faculty members	No, the College does not promote car sharing/car pool among the students and faculty members.
Minimize consumption of water	Repair sources of water leakage, such as dripping taps and showers as quickly as possible.	Regular checking and maintenance of pipelines are done to control the water wastage through dedicated personnel.
	Install appliances which reduce water consumption	Practised as much as possible.
	Encourage a decrease in water usage among staff, students and conference guests	All the stakeholders of the College are encouraged in judicious use of water.
	Use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage	College is taking some steps to aware about use of hygienic water, proper storage of water. <i>Sensor-based system be introduced to minimize the loss of water during storage.</i>
	Minimize wastage of water and use of electricity during water filtration process, if used, such as RO filtration process and ensure that the equipment's used for such usage, are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity	Inside the Campus building, there are existing 1 RO and 1 Water Purifier (supplied by government) and are installed in the strategic location for the students and other members.
	Install Water recycling mechanism, such as rain water harvesting system	Rainwater is directly drained off. <i>Rainwater conservation be developed for other uses.</i>

Control objectives	Control(s)	Audit Observations
Minimize the risk of environmental health	Ensure that all cleaning products used by the University/Institute staff have a minimal detrimental impact on the environment, i.e., are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations	Negligible amount of cleaning/washing liquids are used in the College. <i>College may maintain 'Green Budget' for the said purposes.</i>
	Minimize the use of fertilizers and pesticides in the University/Institutional gardens, opting for the use of compost produced on site wherever possible	College uses mostly organic fertilizers for maintenance of gardens, infected plants as and when required basis.
	Dispose the chemical waste generated from the laboratories in a scientific manner	Disposal of solid wastes are managed. <i>Drainage of liquid wastes from wash rooms, and other similar sources be managed properly.</i>
	Reduce the practice of burning plastic and other materials that emit the harmful gas on burning is prevented in the campus.	No such burning.
Maintenance of green campus	Ensure the green environment	College is positive about increasing greenery. Tree plantation programmes are followed in different occasions on year-wise.
	Establish a Garden in the campus	<i>Students should be trained to handle People Biodiversity Register.</i>
	Encourage the faculties and students to plant trees in the garden	College conducts tree plantation programmes through students and staff members on year-wise. <i>Choice-plantation and fruit-plantations be followed on regular basis considering the suitability of the region.</i>
	Reviews periodically the list of trees planted in the garden periodically	<i>Periodical maintenance of gardens/plants be followed through student members.</i>
Ensure that environmental awareness is created	Conduct environmental awareness workshops as a part of the program.	College celebrates World Environment Day, Women's Day, etc.
	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	College conducts environmental awareness programmes to ensure environmental sustainability.
	Reduce the rate at which the University/Institute contributes to the depletion and degradation of natural resources	College is not directly or indirectly responsible in depletion and/or degradation of natural resources.

Control objectives x	Control(s)	Audit Observations
	Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service	Compulsory ENVS paper as per University guidelines for all the students of all streams are mandatory to have awareness on Environmental.
Ensure that the buildings conform to green standards	Review architecture of existing buildings and reviews ways, in consultation with experts, to reduce usage of energy for such buildings, offering greatest efficiency for energy and water usage, and reducing carbon emission	Presently, there is no proposal of new construction.
Ensure that the Environmental Policy is enacted, enforced and reviewed	Establish the University/Institute Environmental Committee that will hold responsibility for the enactment, enforcement and review of the Environmental Policy. The Environmental Committee shall be the source of advice and guidance to staff and students on how to implement this Policy	College has a College Environmental Committee and conducted so far three meetings during the session 2022-'23.
	Ensure that on the Nature Club/Environmental Committee there will be appropriate representatives of the relevant university departments and authorities – such as catering, gardening, maintenance, cleaning and finance	College Environmental Committee has constituted one EcoClub for better functioning.
Ensure that the Environmental Policy is enacted, enforced and reviewed	Ensure that on the Environmental Committee there will be the Green Officer from an external agency who is engaged in the profession of providing guidance on environmental impact	<i>College is required to reframe the Committee, one Green Officer may be included in this Committee for maintaining budget.</i>
	Ensure that the Environmental Committee will review the Environmental Policy on an annual basis, and will monitor progress and set measurable targets wherever possible	College campus is declared as 'Plastic Free Zone'.
	Ensure that the Environmental Policy is enforced regardless of whether its requirements exceed the mandate of the law	<i>Beautification and cleanliness be maintained involving students; the Green Policy of the College be reframed.</i>
	Require that every staff and student member recognizes their responsibility to ensure that the commitments in the Environmental Policy are properly put into practice	Members of the College Environmental Committee are actively engaged in maintaining green practices.
	Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings	Second 'Green Audit' is conducted on 29 th of April 2024 and is based on the report of year 2022-'23.

7. Recommendations

Considering the audit, following recommendations were made to the management.

Criteria	Recommendations
Publication of Audit Report	<ol style="list-style-type: none"> 1. Resolutions of the "College Environmental Committee" along with audit report be published in the College website. 2. College Environmental Committee be framed as per guidelines.
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse	<ol style="list-style-type: none"> 1. The College should go for ISO 9001:2015 Certification. 2. Composting system be developed for degradable/bio-wastes in a proper way. 3. College may go for partnership with <i>Local Panchayat</i> in monitoring the disposal of solid wastes through sharing some outreach programs also. 4. Vermicomposting should be monitored considering its vegetable wastes, food wastes from canteens. 5. E-wastes be managed properly through License holder.
Reduce energy consumption, especially of energy derived from fossil fuels,	<ol style="list-style-type: none"> 1. Use energy efficient lighting/solar light fully in and around the campus; Ecological street may be developed in and around the campus. 2. Installation of number of control switch, MCP for monitoring of energy and sensor-based system for water consumption building wise/department wise be operated through the involvement of student members. 3. Ecological street may be developed in and around the campus; Pedestrian access be marked.
Maintenance of Campus and biodiversity	<ol style="list-style-type: none"> 1. Students be aware importance of Medicinal Gardens and PBR for different locations. 2. Proper training, workshop on maintenance of PBR for local villages and different locations as an outreach program be initiated. 3. Choice-plantation, fruit-plantation, artificial nesting, <i>etc.</i>, be followed to maintain attract birds and other animals within the campus. 4. Proposal of Butterfly Garden may be initiated.
Proper cleaning of water storage Tanks	<ol style="list-style-type: none"> 1. Proper cleaning of the water tanks for fruitful uses be followed; management of dead leaves, litters of trees inside the campus be taken care off on regular basis. 2. Sensor-based system be maintained for checking of wastage of tank water.
Project-based learning on Environment related subjects	<ol style="list-style-type: none"> 1. Creation of opportunity to start with technical, skill-oriented and hands-on-training programmes for environmental monitoring. 2. Recognition/Awards on green & clean campus from authorised persons/organisations.

8. Objectives and Scope

The purpose of this audit was to ensure that the Green Management Practices are followed and implemented in the campus, across all departments, administrative bodies and students.

9. Methodology

The methodology includes - preparation and filling up of questionnaire, screening of the report, physical interaction with the members in presence of Principal and the Members of the College Environmental Committee as well as Members of IQAC, record checking and review of the submitted documentations, interviewing key persons and data analysis, measurements and recommendations. It works on the several aspects of 'Green Audit' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity.

- In order to meet these objectives, this audit was based on report submitted by the College authority and reviewing of relevant documents as far as possible and interviews with authority, Coordinator and staff members physically.
- Review of the Documentations
- For the purpose of this audit the Green Policy of the institute was reviewed. Other relevant standards, Green audit framework *etc.*, was also considered.

Interviews

Interviews were conducted with the Principal, IQAC Coordinator, Coordinator of College Green Committee and also members of the Committee.

Physical Inspection

Physical inspection was made on 29th of April 2024 and report was prepared based on the physical verification and validation and interaction with the members of the College.

9.0 Declaration

I agree with all the recommendation and observations mentioned in this report.

Date: 29/04/2024

Place: Tehatta Sadananda Mahavidyalaya
Tehatta, Purbra Bardhaman



Milojade
29.04.24.

Signed by
College Principal with Seal
Principal
Tehatta Sadananda Mahavidyalaya
Tehatta, Purba Bardhaman

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ENVIRONMENTAL ASSESSMENT REPORT

ACADEMIC SESSION 2023-2024



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ENVIRONMENTAL ASSESSMENT REPORT

Academic Session 2023-2024

Prepared by

Green Audit Team

Directed by

The Principal

TEHATTA SADANANDA MAHAVIDYALAYA

Tehatta, Purba Bardhaman, West Bengal

GREEN AUDIT TEAM

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Acknowledgement

We extend our heartfelt appreciation to the audit team for their meticulous examination, insightful recommendations, and diligent efforts in identifying areas where we can enhance our environmental performance. Their expertise and guidance have provided us with a roadmap for implementing sustainable initiatives across campus. We acknowledge the efforts of all those involved in the green audit report for Tehatta Sadananda Mahavidyalaya. The dedication and commitment to assessing and improving our environmental practices have been invaluable in fostering sustainability within our campus community.

Furthermore, we would like to express sincere gratitude to the Principal for his leadership in advocating sustainability initiatives within our college. Your vision and insightfulness have inspired us to prioritize environmental responsibility and integrate sustainable practices into our campus culture.

1. Executive Summary

It marks a significant milestone in the establishment of Tehatta Sadananda Mahavidyalaya, being a beacon of educational opportunity in the heart of rural outskirts of Kalna-II C.D.Block. It is only Degree College in the 30 kilometer radius of Kalna-II. Founded with a vision to empower the local community through accessible and quality education, the college has since been a keystone of academic excellence and community development in the region from 2013. The college is affiliated to the University of Burdwan and has introduced honours course in six departments and pass course in three departments.

The founding principles and values of the college are to bring forth the commitment to rural development, educational equity, and community engagement. It has emphasized the dedication to foster a supportive and inclusive learning environment. The college has adopted the village named, Akalpaush and has a strong impact not only on this village but on the entire local rural community, including its role in providing educational opportunities, economic development, and cultural enrichment.

The journey of Tehatta Sadananda Mahavidyalaya from its humble beginnings to its current position is always been a thriving educational institution in its rural setting. We express gratitude to all those who have contributed to the college's success and devoted to the commitment in serving the needs of the rural community. The college provides a glimpse into the rich history and founding principles that underscores its significance as a catalyst for positive changes and progress in the rural landscape.

2. Function of Green Audit

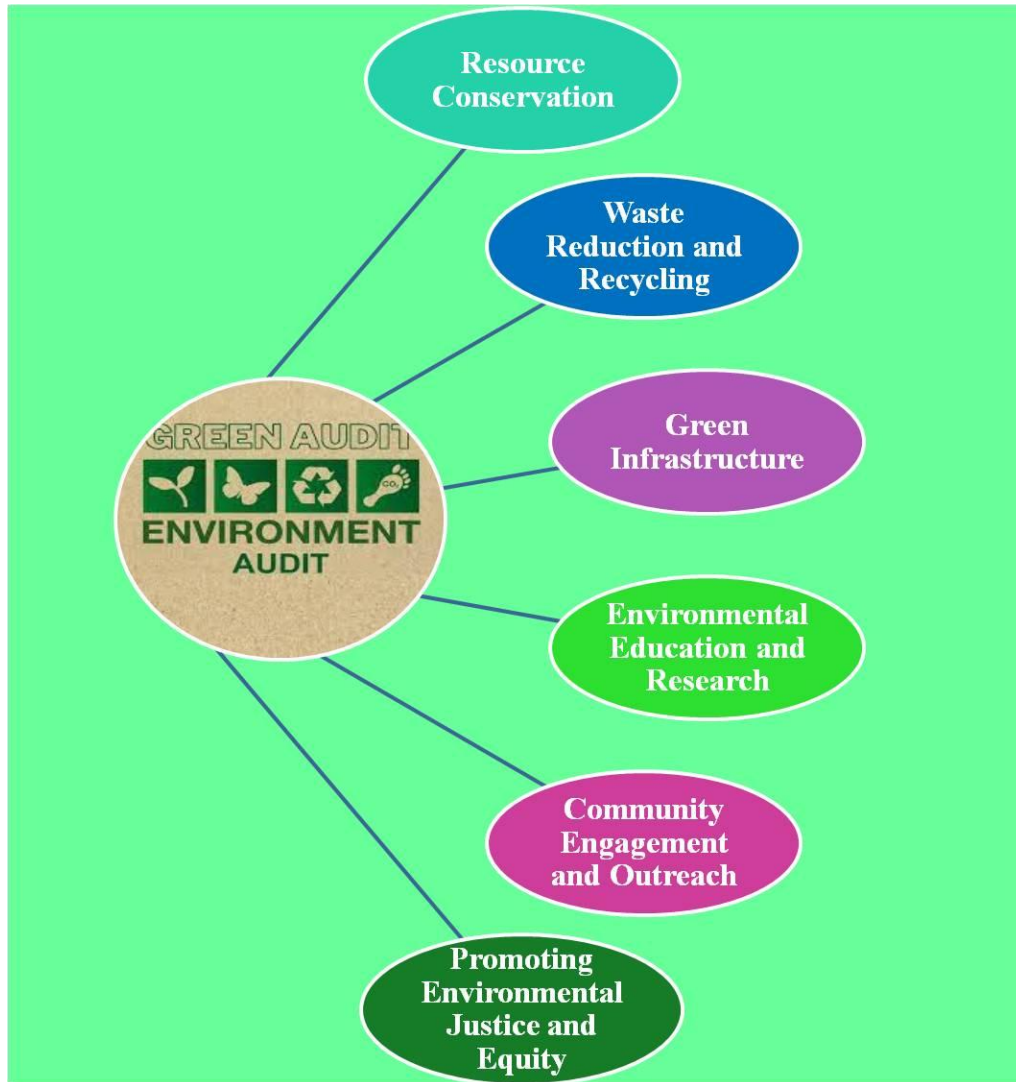


Fig.1. Functions of the Green Audit

3. Vision and Mission

Our Vision

To educate and empower the underprivileged youth of Tehatta and its neighbouring villages by providing value based quality education for their holistic development so as to enable them to transform the socio-economic fabric of the region into a lively and progressive one.

Our Mission

- To encourage the youth belonging to economically backward and underprivileged communities to pursue higher studies.
- To encourage greater participation of female learners in the field of higher education for women empowerment.
- To develop a socially and economically inclusive academic ambience that is flexible to changing needs.
- To impart value based quality education and to unfold the potential and skills of the local youth to enable them emerge as self reliant and competent individuals of the society.
- To promote an academic ambience that is free from gender discrimination and stereotypical social and racial prejudices.
- To enlighten young minds and help them to develop vocational skills and social awareness to provide opportunities of employment to students in the context of changing world.
- To help the neighbouring areas in feasible ways to create a benevolent society free from all biases.

4. About the College

4.1. Campus Area

Located in the serene countryside of Kalna-II Block, nestled in the heart of Akalpaush Gram Panchayet, the college campus sprawled across lush green, framed by towering trees and manicured gardens. The rural setting offers students a peaceful retreat from the hustle and bustle of city life, fostering a close-knit community and a deep connection with nature. From the vantage point of the campus, students could admire the natural scenic beauty of the surrounding and the panoramic views of the agricultural field. The geographical area of the college provided an idyllic backdrop for learning and personal growth.

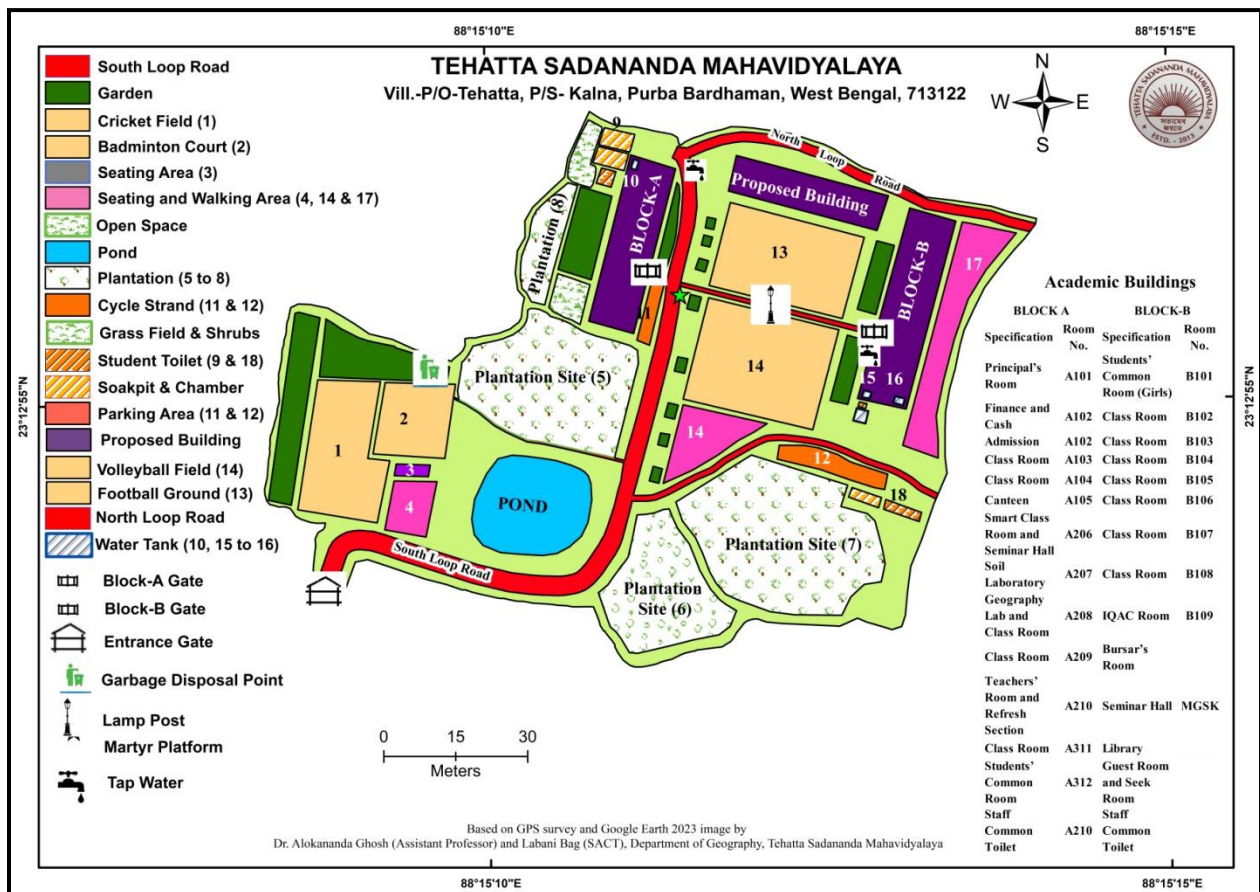


Fig. 2. Layout of College Campus, Tehatta Sadananda Mahavidyalaya

4.2. History of college

The birth of Tehatta Sadananda Mahavidyalaya was the outcome of a long and ardent desire of the local erudite to free the toiling and underprivileged masses of Tehatta and her neighbouring villages from the darkness of illiteracy by providing them the scope of receiving education. The first step towards this philanthropic gesture was the foundation of Tehatta Sailendra Smriti Sangha, a village library, a small hospital, a post office and Tehatta Free Primary School and Tehatta High School. The latest and most significant addition to the list was the establishment of Tehatta Sadananda Mahavidyalaya in 2013, a co-educational Government aided Degree College, affiliated to the University of Burdwan.

Being situated in an agrarian rural locale, the college had immense challenges to overcome to steer forth in the direction of its aim. Fortunately the college is flourishing under the constructive and positive leadership of the authority who are relentlessly giving their best effort to practically implement the mission and vision of the institution. The Governing Body of the college along with the law making and administrative authority together with the Teaching and non-teaching staff have jointly come together to promote, strengthen and upgrade this institution to provide a holistic education to the learners and they have made a commendable progress within a short span of time.

Tehatta Sadananda Mahavidyalaya is the only degree college in Kalna Block II and the Department of Higher Education, Government of West Bengal has sanctioned grants for the construction of the College Building which is in the process of its making. The University of Burdwan and the Higher Education Council have granted permission to carry on the teaching-learning process in full swing. Honours course has been introduced in six departments. The college also intends to initiate Science and Commerce stream in near future. The infrastructure is also gradually improving and new teaching and non-teaching posts have been sanctioned.

The establishment of the college is a major step towards enlightenment and betterment of the youth of the locality and what is vitally important at present is the sincere dedication and selfless commitment towards making the college a leading institution in the district. All the stake holders of the institution happily have joined hands in realising this dream and it is our belief that with continuous effort and hard work we will steadily strive towards a better tomorrow which will

free the youth from the clutches of poverty, illiteracy, superstition and mutual differences to collectively emerge as self reliant individuals of the society capable of transforming the socio-economic fabric of the area into a vibrant one.

5. Initiatives taken

To promote environmental awareness and holistic development, the college has adopted Energy Conservation Policy for '**Conservation of Resource for a Sustainable Environment**'. The institution aims to radically and extensively reduce energy consumption to promote healthy pollution free indoor air quality as well as improving energy efficiency within the campus through implementation of safe, secure, and eco-friendly measures within the premises. The policy is focusing on efficient, responsible, and cost- effectiveness of the adopted measures within campus. The policy is compulsory for all the stakeholders of the institution and should be maintained while undertaking various activities by the institution. The college taken the '**Green Campus**' initiative and the formation of '**Eco-Club**' is one of such official platform which is devoted to the cause of environmental awareness and sustainable development.

The Green Campus Policy of the college foresees a clean sustainable green campus where environmental friendly practices and education are enriching the environmental ethics amongst the students and staff of the college. Environmental ethics oppose the anthropocentric and theocentric view of environment. It promotes the insights that value human being only when his action is not harming the environment.

Following Steps were adopted to make the campus Green

5.1. Clean Campus Initiatives

- The college has done various activities under 'Swachh Bharat Abhiyan' organized by NSS like- village survey and village cleaning programme, deplasticisation programme, college cartyard cleaning programme, gram swachhata abhiyan, conservation and monitoring of the waterbodies, sustainable biodiversity programme.

- Events such as poster and slogan competitions, essay writing, spoken word poetry, speeches on ‘Swachh Bharat’ have been organised.
- Rallies have been organized on themes connected with ‘Swachh Bharat Abhiyan’ in and around the college campus will be conducted to create mass awareness.
- A periodical cleaning programme on removal of broken infrastructures and waste have been organized several times.

5.2. Land Use and Land Cover Initiatives

- A college campus map has been prepared and displayed in various points of the college to direct students and staff about the green campus zone and other demarcated area.
- Students were encouraged to plant trees in tree plantation programme.
- Every department has adopted a plant given by the Eco Club of the college.
- Clean Air Initiatives
- Under this section the college has declared itself as a smoke free campus.
- The college has strictly prohibited establishment of industries at the 500 meter surrounding of the campus.

5.3. Waste Management Processes

With its aim to provide holistic education to the young learners that will have positive impact on the environment, the college will adopt the following methods-

- The college has promoted the 3R policies to maintaining an sustainable green campus, i.e- Reduce, Reuse and Recycle policy.
- The solid waste are being collected by the college and given to scrap dealer for recycle.
- The college encourages the adoption of reusable items such as water bottles and other plastic containers.
- It is implementing policies to minimize paper waste by promoting digital communication, electronic submissions, and double-sided printing.

- The institution is providing clearly labeled bins for recycling, composting, and landfill waste in strategic locations across campus, including classrooms, common areas and organizes recycling drives or events to encourage participation and raise awareness about the importance of recycling.

5.4. Energy Conservation Policy & Infrastructural Initiatives

- The college has developed save energy plan at the institution level towards energy conservation. Thus the institution has adopted measures to use renewable energy and has replaces all the tube lights with light emitting diode (LED) tubes. The LED tube lights significantly reduce your energy use since LED bulbs are 90% more efficient and cost effective. Energy conservation practices and eco-friendly habits are inculcated among students and staff through simple programmes like- Tree plantations, Awareness programe done by NSS on ‘Tree Plantation Programme’, ‘Save Water Save Life’, ‘Deplasticisation’ ‘Cleaning College Campus’, ‘World Health Day Celebration’, ‘Cleaning of Courtyard of the College’ etc.
- Green Audit has been initiated by the college and policy taken to make it a mandatory programme.
- The college has taken tree plantation drive for every year 5th June.
- The college has its noise free zone and has encouraged in many ways to reduce local air pollution emissions.
- The college has undertaken green initiatives and has conducted ‘Green Literacy Programmes’ in the adopted village to spread awareness amongst the villagers about the practices of energy saving and environmental conservation.
- The College has taken ‘Plant Adaptation Initiative’, in which each department of the college have been gifted at least one plant for nurturing and taking care of.

5.5. Available types of flora and fauna resources in college

There are a total of 88 plant species including herbs, shrubs, mosses, ferns and trees distributed in and around the campus of the college (Annexure-I and Photoplates 1 to 9). A lot of plants are medicinally important and reported in the medicinal plant garden.

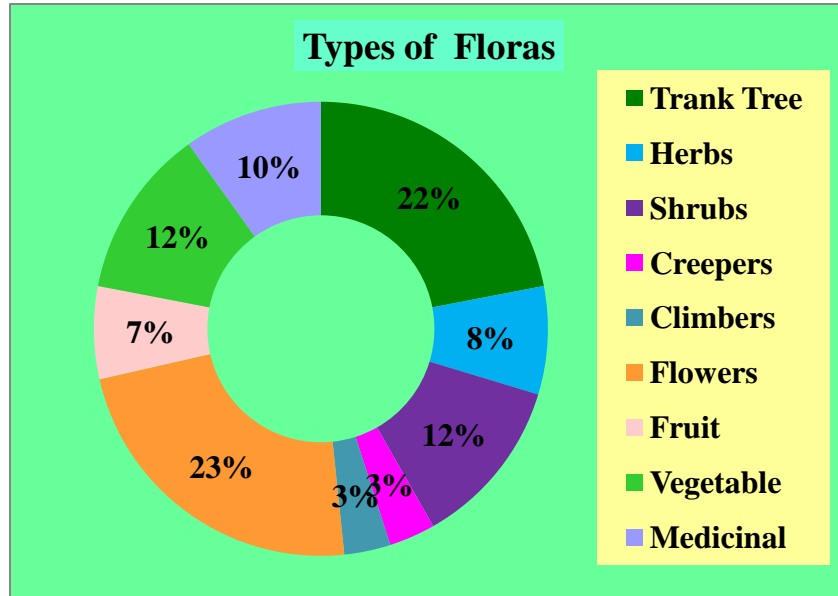


Fig. 3. Available Floras, Tehatta Sadananda Mahavidyalaya

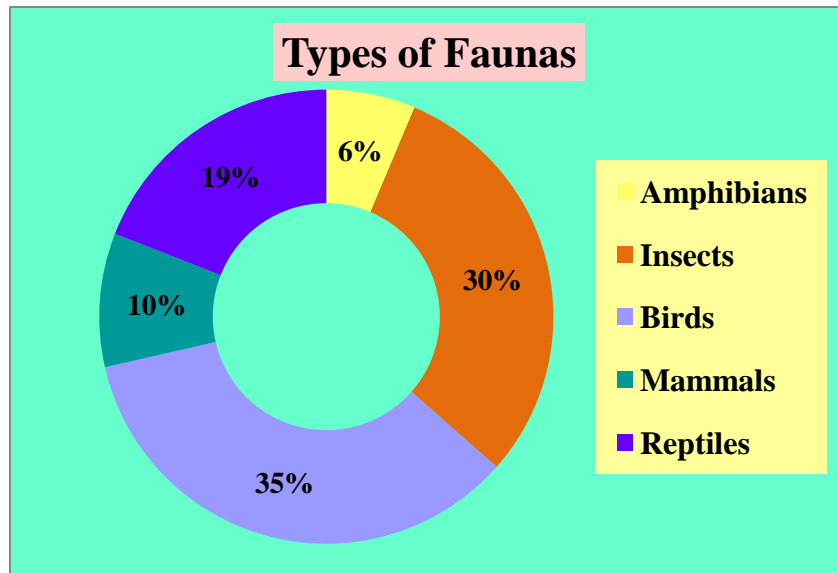


Fig. 4. Available Faunas, Tehatta Sadananda Mahavidyalaya

6. Summary of the study

Tehatta Sadananda Mahavidyalaya: Maintains a Green Campus

Set amidst verdant surroundings, our college boasts a green campus initiative that is truly commendable. Lush green fields sprawl across the grounds, punctuated by native trees and colorful flowerbeds, creating a haven of biodiversity. Recycling bins are strategically placed, promoting waste reduction and responsible disposal practices among students and staff. Walking pathways created through the gardens, inviting contemplative strolls and fostering a sense of environmental stewardship. Our commitment to sustainability extends beyond the campus borders, with adopting village and organizing community outreach programs aimed at promoting eco-conscious living. The college is not just an institution of learning but also a model for environmental responsibility, green and sustainable living.

Medicinal plants hold significant importance in rural colleges for several reasons, like (i) integration of traditional knowledge. Incorporating the study and cultivation of medicinal plants allows students to learn about and preserve traditional knowledge that has been passed down through generations. Rural areas often have limited access to modern healthcare facilities. (ii) Medicinal plants provide an accessible and cost-effective alternative for treating common ailments. Educating students about these plants empowers them to address healthcare needs within their communities. (iii) Cultivating medicinal plants encourages sustainable agricultural practices in rural areas. Students learn about organic farming methods, biodiversity conservation, and the importance of preserving natural habitats, contributing to environmental stewardship etc. The campus provides a shelter of 22 different species of birds (Annexure-II, Photoplate-10), 13 species of reptiles, 23 insect species, arthropods, reptiles and 6 species of mammals. For the list of animal diversity in the campus please see Annexure III (Photoplate-11). some photographic plates are also attached in the report.

ANNEXURE -I

Sl.No.	COMMON NAME	SCIENTIFIC NAME
PLANTS		
1	Climbing Hamp Weed	<i>Mikania scandens (L.) Willd. (Asteraceae)</i>
2	Alyce Colver	<i>Alysicarpus vaginalis</i>
3	Creeping Weed Sorrel	<i>Oxalis corniculata</i>
4	Little Iron Weed	<i>Cyanthillium Cinereum</i>
5	Barmuda Grass	<i>Cynodon Dactylon</i>
6	Hairy Fig	<i>Ficus hirta</i>
7	Lone Violet	<i>Violaceae</i>
8	PeepalTree	<i>Ficus Religiosa</i>
9	Flat Top Mille Graines	<i>Oldenlandia Corymbosa</i>
10	Balloon Vine	<i>Cardiospermum Halicacabum</i>
11	White Sweet Clover	<i>Melilotus Albus</i>
12	Penny Royal	<i>Mentha Pulegium</i>
13	Gotu Kola	<i>Centella Asiatica</i>
14	Fame Flower	<i>Phemeranthus Calycinus</i>
15	Heath False Brome	<i>Brachypodium Pinnatum</i>
16	Flinders Rose	<i>Capparis Spinosa</i>
17	Heartleaf Fanpetals	<i>Sida Cordifolia</i>
18	Ballyache Bush	<i>Jatropha Gossypiifolia</i>
19	Egg Plant	<i>Solanum melongena</i>
20	Parijat (Night Jasmine)	<i>Nyctanthes arbor-tristis</i>
21	Ivy Guard	<i>Coccinia Grandis</i>
22	Aligator Weed	<i>Alternanthera Philoxeroides</i>
23	Cluster Fig	<i>Ficus Racemosa</i>
24	Japanese Hawksbeard	<i>Youngia Japonica</i>
25	Wavyleaf Basketgrass	<i>Oplismenus Hirtellus</i>
26	Christmas Bush	<i>Ceratopetalum Gummiferum</i>
27	Bonpland's Croton	<i>Croton Bonplandianus</i>
28	Pig Weed	<i>Amaranthus Graecizans</i>
29	Manila Tamarend	<i>Pithecellobium Dulce</i>
30	Inch Plant	<i>Tradescantia Zebrina</i>
31	Golden Pothos	<i>Epipremnum Aureum</i>
32	Asthman Plant	<i>Euphorbia Hirta</i>
33	Areca Palm	<i>Dypsis Lutescens</i>
34	Nprfolk Island Pine	<i>Araucaria Heterophylla</i>
35	Teak	<i>Tectona grandis</i>

36	Frangipani	<i>Plumeria</i>
37	Mahogany	<i>Swietenia mahagoni</i>
38	Royal Moinciana	<i>Delonix regia</i>
39	Chinese Fan Palm	<i>Livistona chinensis</i>
40	Honduran Mahogany	<i>Swietenia macrophylla</i>
41	Siris	<i>Albizia lebeck</i>
42	Blackboard Tree	<i>Alstonia scholaris</i>
43	Mango Tree	<i>Mangifera indica</i>
44	Iple Iple Tree	<i>Leucaena leucocephala</i>
45	Bengal Kino	<i>Butea monosperma</i>
46	Guava	<i>Psidium guajava</i>
47	Japanese Splindle	<i>Euonymus japonicus</i>
48	Lemon	<i>Citrus limon</i>
49	Murrie Red Gum	<i>Murrie Red Gum</i>
50	Gaint Bamboo	<i>Dendrocalamus</i>
51	Darwin Black Wattle	<i>Acacia auriculiformis</i>
52	Debdaru	<i>Polyalthia longifolia</i>
53	Spanish Cherry	<i>Mimusops elengi</i>
54	Water Cabbage	<i>Pistia stratiotes</i>
55	Green algae	<i>Cladophora glomerata</i>
56	Pacigic Azolla	<i>Azolla filiculoides</i>
57	Common water moss	<i>Fontinalis antipyretica</i>
58	Lustrous bog-moss	<i>Sphagnum subnitens</i>
FLOWERS and INDOOR PLANTS		
1	Oleander	<i>Nerium</i>
2	Variegated Croton	<i>Codiaeum variegatum</i>
3	Periwinkle	<i>Catharanthus</i>
4	Caurry Bush	<i>Murraya koenigii</i>
5	Arabian Jasmine	<i>Jasminum sambac</i>
6	Great Bauganvillea	<i>Bougainvillea spectabilis</i>
7	Snake Plant	<i>Dracaena trifasciata</i>
8	Gardenia	<i>Gardenia jasminoides</i>
9	Dracaena Fragrass	<i>Dracaena fragrans</i>
10	Japanese Poinsettia	<i>Euphorbia tithymaloides</i>
11	Dahlia	<i>Dahlia pinnata</i>
12	Chrysanthemum	<i>Chrysanthemum</i>
13	Sago Palm	<i>Cycas revoluta</i>
14	Bengal Rose	<i>Rosa chinensis</i>
15	Marigold	<i>Tagetes</i>

MEDICINE PLANTS		
1	Tulsi	<i>Ocimum Tenuiflorum</i>
2	Neem	<i>Azadirachta Indica</i>
3	Gotu Kola	<i>Centella asiatica</i>
4	Malabar Nut	<i>Justicia adhatoda</i>
5	Burn Plant	<i>Aloe Vera</i>
6	Brahmi	<i>Bacopa monnieri</i>
7	Ashwagandha	<i>Withania somnifera</i>
8	Indian Mallow	<i>Abutilon indicum</i>
9	Bitter Gourd	<i>Momordica charantia</i>
VEGETABLES		
1	Green Chilli	<i>Capsicum Annuum</i>
2	Coriander	<i>Coriandrum Sativum</i>
3	Indian spinach	<i>Basella alba</i>
4	Tomato	<i>Solanum lycopersicum</i>
5	Brinjal	<i>Solanum melongena</i>
6	Radish Greens	<i>Raphanus sativus</i>

PHOTOGRAPHS OF PLANTS

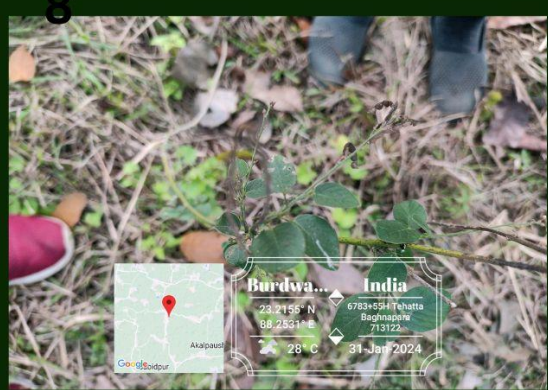
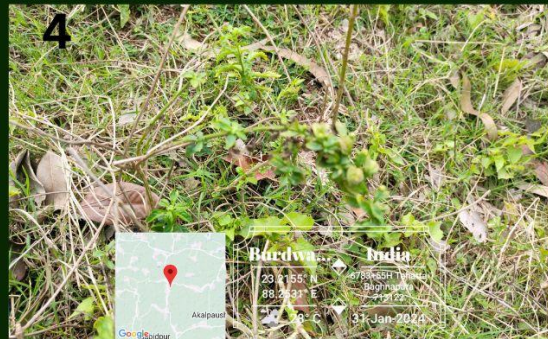
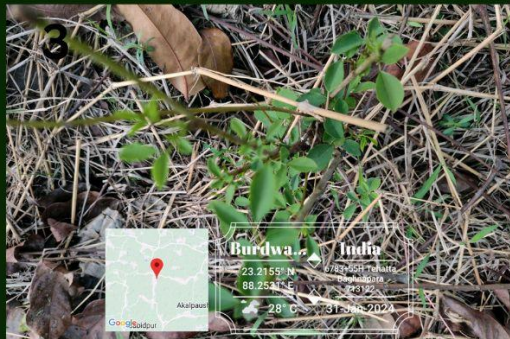
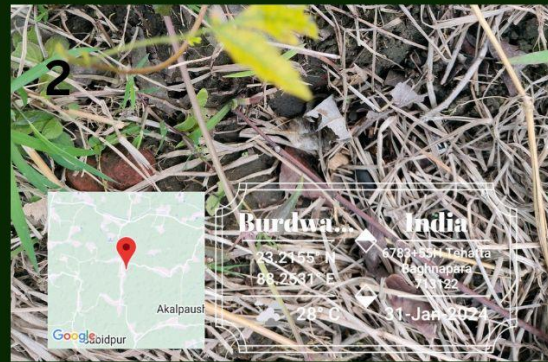
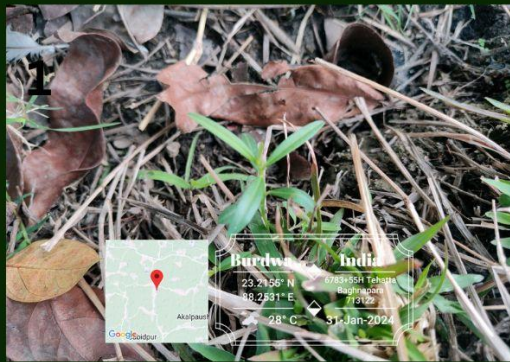


Plate -2: 1. Flat Top MilleGrains 2. Balloon Vine 3. White Sweet Clover 4. Penny Royal 5. Gotu Kola 6. Fame Flower 7. Heath False Brome 8. Flinder Rose

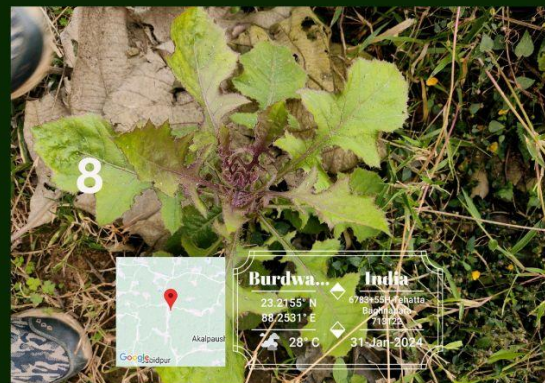
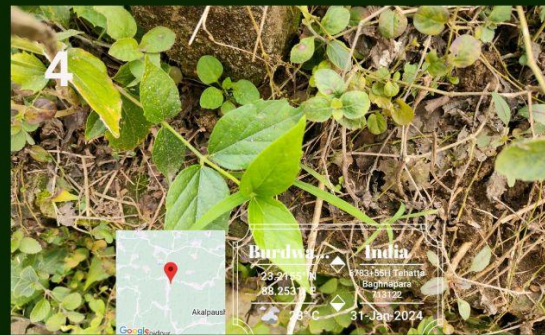
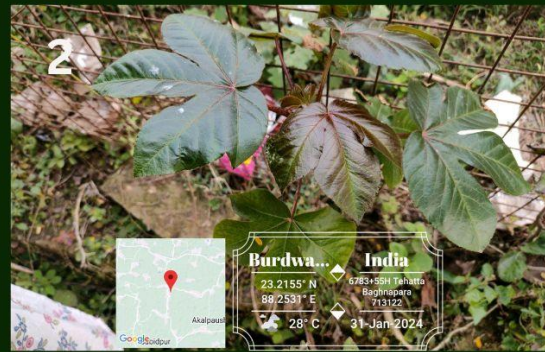
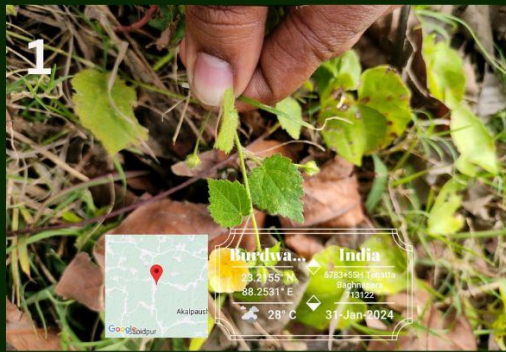


Plate -3: 1. Heartleaf Fanpetals 2. Ballyache Bush 3. Egg Plant 4. Night Jasmine 5. Ivy Guard 6. Aligator Weed 7. Cluster Fig 8. Japanese Hawksbeard

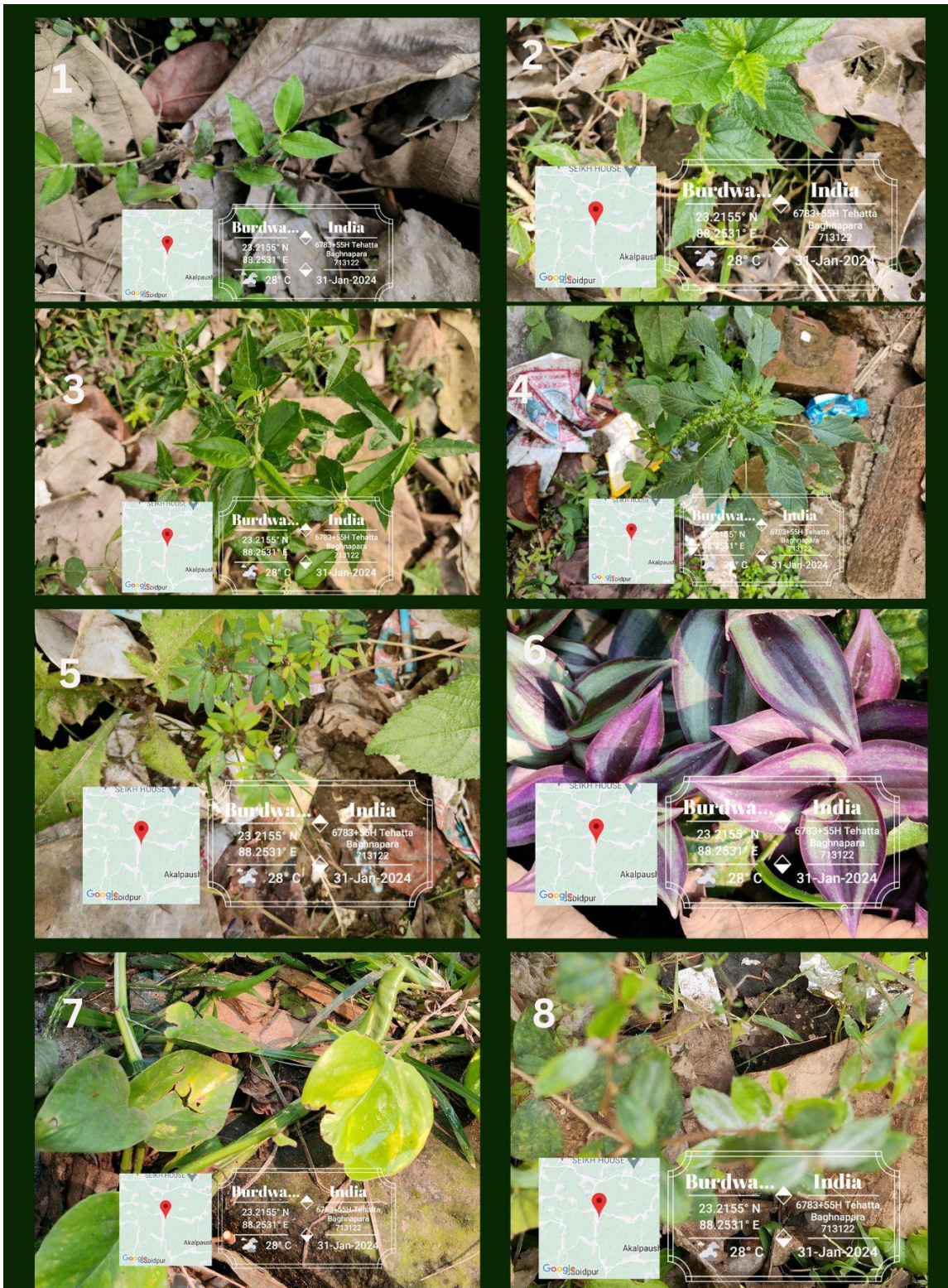


Plate -4: 1. Wavyleaf Basketgrass 2. Christmas Bush 3. Bonpland's Croton 4. Pig Weed 5. Manila Tamarend 6. Inch Plant 7. Golden Pothos 8. Asthman Plant

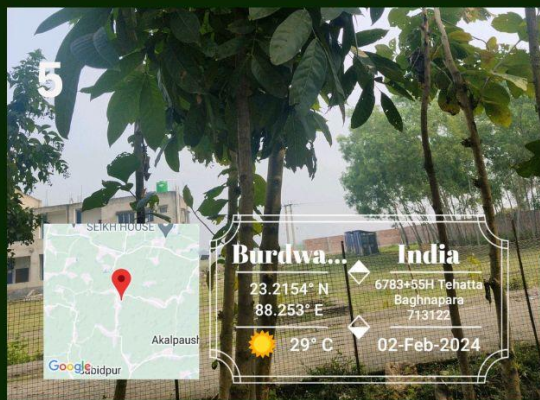
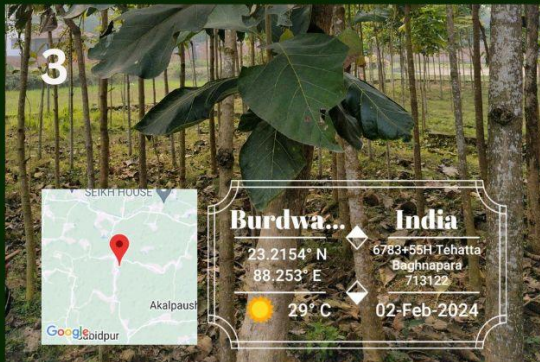


Plate -5: 1. Areca Palm 2. Nprfolk Island Pine 3. Teak 4. Frangipani 5. Mahogany 6. Royal Moinciana 7. Chinese Fan Palm 8. Honduran Mahogany

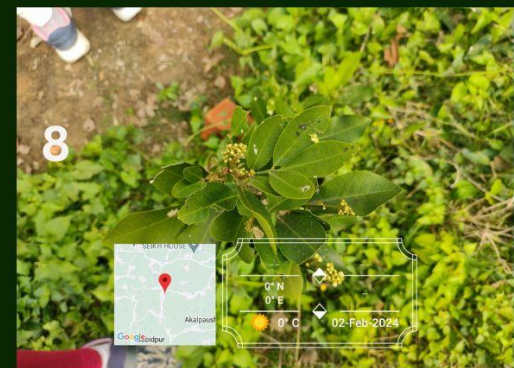
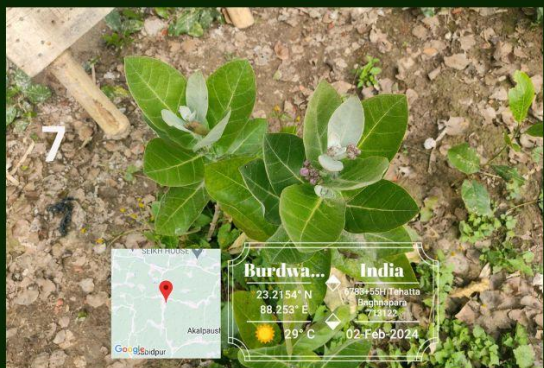
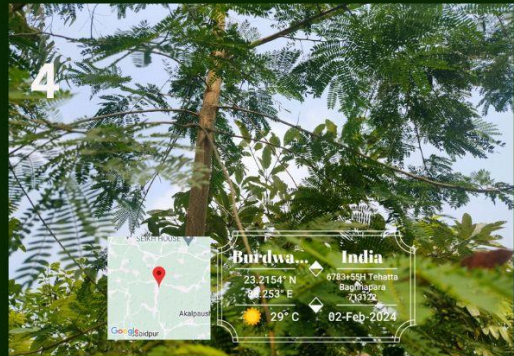


Plate -6: 1. Siris 2. Blackboard Tree 3. Mango Tree 4. Iple Iple Tree 5. Bengal Kino 6. Guava 7. Japanese Spindle 8. Lemon

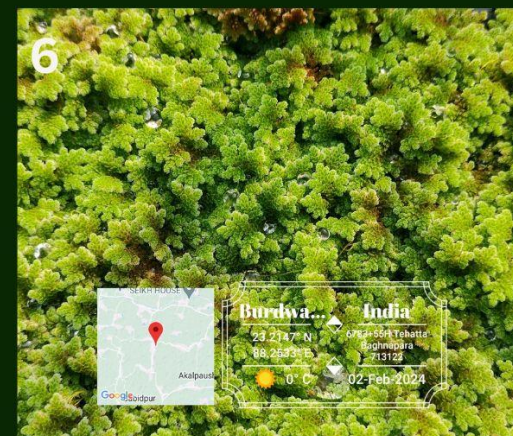
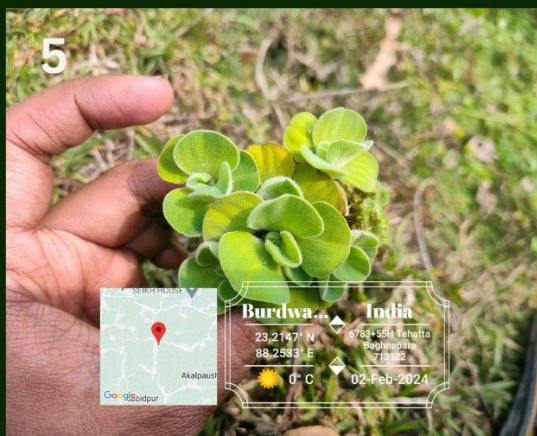


Plate 7 1. Gaint Bamboo 2. Darwin Black Wattle 3. Debbaru 4. Spanish Cherry 5 Water Cabbage 6 Green Algae

PHOTOGRAPHS OF FLOWERING PLANTS



PHOTO PLATE -8 (See Annexure-I for names)

PHOTOGRAPHS OF HERBAL PLANTS

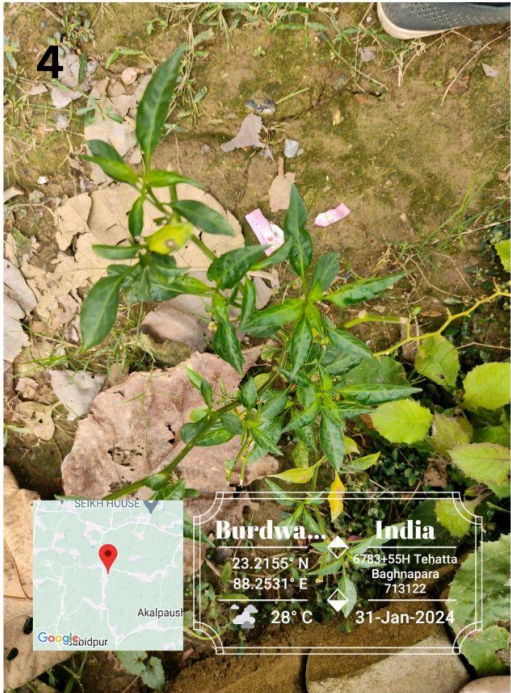
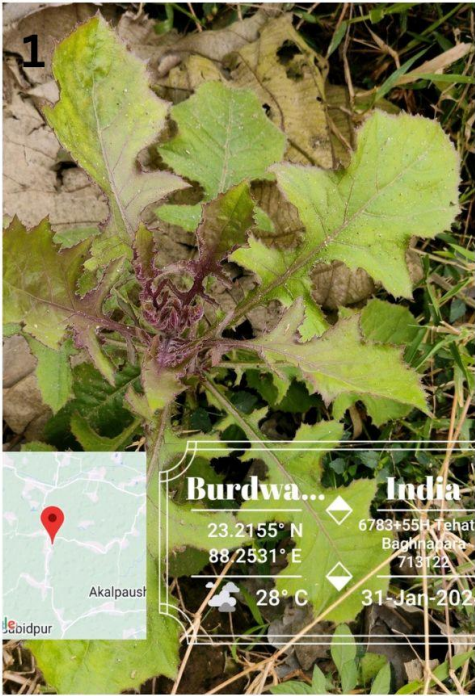


PHOTO PLATE -9 (See Annexure-I for names)

ANNEXURE -II

Sl.No.	COMMON NAME	SCIENTIFIC NAME
BIRDS (See Photoplate – 8)		
1	Shalik (Common myna)	<i>Acridotheres tristis</i>
2	Ghugu (Spotted Dove)	<i>Streptopelia chinensis</i>
3	Pigeon	<i>Columbidae</i>
4	Indian house crow	<i>Corvus splendens</i>
5	Indian Cuckoo	<i>Cuculus micropterus</i>
6	Jungle babbler	<i>Argya striata</i>
7	Oriental magpie-robin (Doyel)	<i>Copsychus saularis</i>
8	Common hill myna	<i>Gracula religiosa</i>
9	Owl	<i>Strigiformes</i>
10	Robin	<i>Turdus migratorius</i>
11	Parrot	<i>Psittaciformes</i>
12	Sparrow	<i>Passeridae</i>
13	Bulbul	<i>Molpastes cafer</i>
14	Indian Vulture	<i>Gyps indicus</i>
15	Eagle	<i>Aquila</i>
16	Dove	<i>Columbidae columbiformes</i>
17	Swan	<i>Cygnus coscoroba</i>
18	Duck	<i>Anas platyrhynchos</i>
19	Hen	<i>Gallus gallus domesticus</i>
20	Kingfisher	<i>Alcedinidae</i>
21	Cormorants and shags	<i>Phalacrocoracidae</i>
22	Black kite	<i>Milvus migrans</i>

PHOTOGRAPHS OF BIRDS

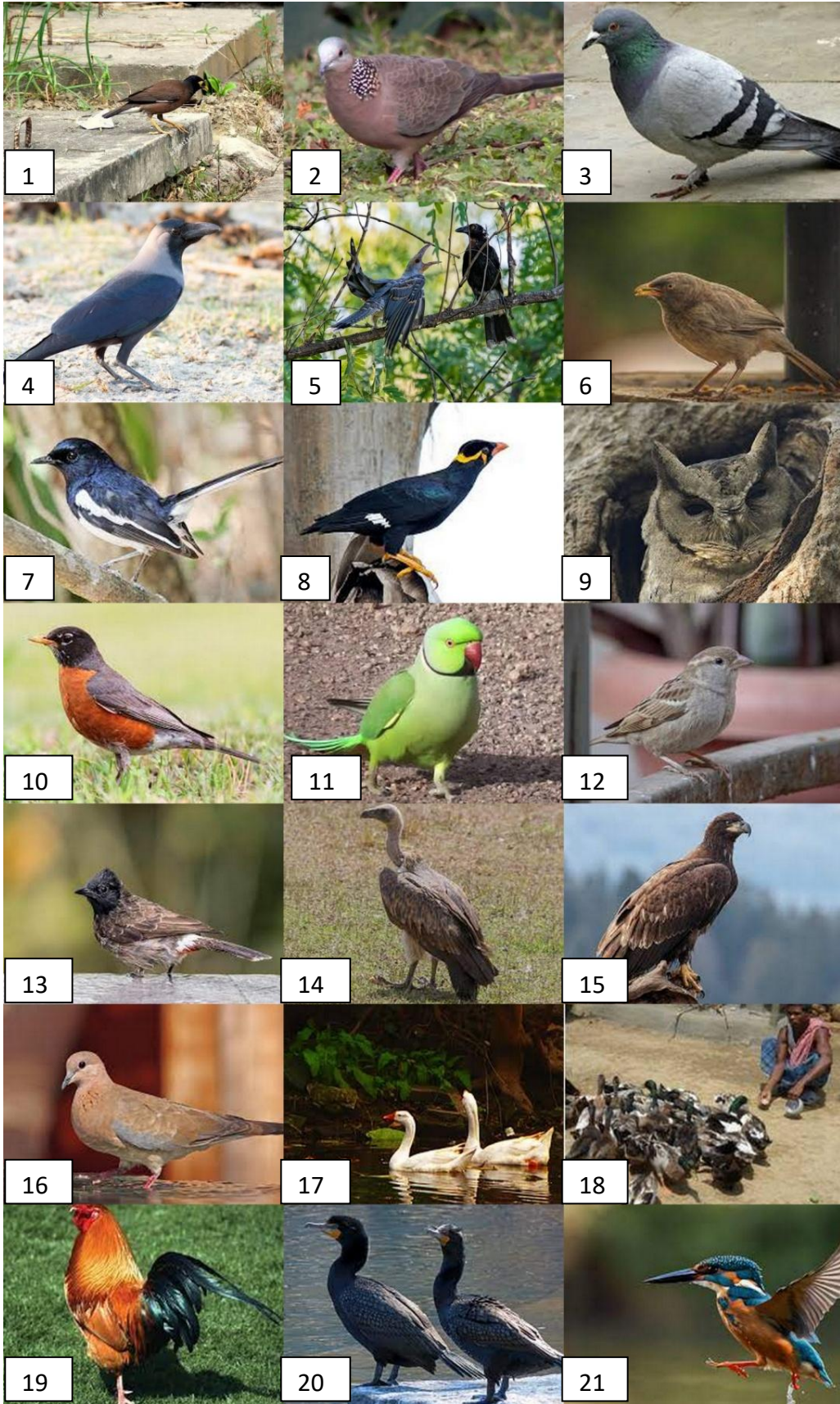


PHOTO PLATE -10 (See Annexure-II for names)

ANNEXURE -III

Sl.No.	COMMON NAME	SCIENTIFIC NAME
ANIMALS		
	AMPHIBIANS	
1	Indian Bullfrog.	<i>Hoplobatrachus tigerinus</i>
2	Asian Common Toad	<i>Duttaphrynus melanostictus</i>
3	Asian bullfrog	<i>Hoplobatrachus tigrinus, or Rana tigrina</i>
4	Chameleon	<i>Chamaeleonidae</i>
	INSECTS and others	
1	Black Ant	<i>Lasius niger</i>
2	Harvester Ant	<i>Pogonomyrmex barbatus</i>
3	Red Bull Ant Scientific	<i>Myrmecia gulosa</i>
4	Black Carpenter Ant Scientific	<i>Camponotus pennsylvanicus</i>
5	Pavement Ant Scientific	<i>Tetramorium caespitum</i>
6	Red Fire Ant	<i>Solenopsis invicta</i>
7	Weaver Ants	<i>Oecophylla (genus)</i>
8	Yellow Crazy Ant Scientific	<i>Anoplolepis gracilipes</i>
9	Wood ant	<i>Formica aquilonia</i>
10	Stonefly	<i>Leuctra moselyi</i>
11	Stonefly	<i>Nemoura dubitans</i>
12	Stonefly	<i>Protonemura meyeri</i>
13	Honey Bee	<i>Apis mellifera</i>
14	Butterfly	<i>Lepidoptera</i>
15	Drangon fly	<i>Anisoptera</i>
16	Snails	<i>Gastropoda</i>
17	Earth Worm	<i>Lumbricina</i>
18	Leech	<i>Hirudinea</i>
19	Common house gecko	<i>Hemidactylus frenatus</i>
20	Chilopoda	<i>Chilopoda Scolopendromorpha</i>
21	Millipedes/ Centipede	<i>Diplopoda</i>
22	Spider	<i>Araneae</i>
23	Garden Spider	<i>Araneus diadematus</i>
	SNAKES	
1	Indian Kobra (Gokhro)	<i>Naja naja</i>
2	Common Krait (Kalach/ Raj Saap)	<i>Bungarus caeruleus</i>
3	Banded Kraits (Sakhamuti)	<i>Bungarus fasciatus</i>
4	Hele Snake (Striped Keelback)	<i>Coelognathus helena</i>
5	Jol Dhora Snake (Checkered Keelback)	<i>Fowlea piscator</i>

6	Ghor Chiti Snake (Common Wolf Snake)	<i>Lycodon aulicus</i>
7	Bet Acchra Snake (Common Bronze Back Tree Snake)	<i>Dendrelaphis tristis</i>
8	Meteli Snake (GANG Matuli or Common Smooth Scalled Water Snake)	<i>Enhydriis enhydriis.</i>
9	Lau Doga Snake (Common Vine Snake)	<i>Ahaetulla nasuta</i>
10	Russell's viper (Chondroboda Snake)	<i>Daboia russelii</i>
11	Indian black cobra	<i>Naja naja</i>
12	Bengal monitor (Gosap)	<i>Varanus bengalensis</i>
	MAMMALS	
1	Goat	<i>Capra aegagrus hircus</i>
2	Dog	<i>Canis lupus familiaris</i>
3	Cat	<i>Felis catus</i>
4	Cow	<i>Bos taurus</i>
5	Indian rhesus macaque	<i>Macaca mulatta</i>
6	Crab eating mongoose	<i>Herpestes urva</i>

PHOTOGRAPHS OF SNAKES

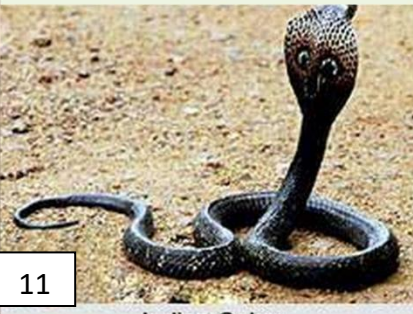
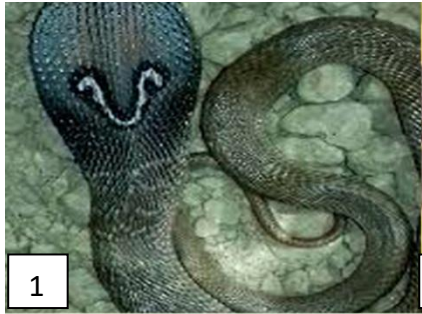


PHOTO PLATE -11 (See Annexure-III for names)



TEHATTA SADANANDA MAHAVIDYALAYA

A WEST BENGAL STATE GOVERNMENT AIDED DEGREE COLLEGE

AFFILIATED TO THE UNIVERSITY OF BURDWAN



ESTABLISHED – 2013

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Green Audit & Environment Audit



TEHATTA SADANANDA MAHAVIDYALAYA

A West Bengal State Government Aided Degree College

Affiliated to The University of Burdwan

▲ Established – 2013 ▲

P.O – TEHATTA ★ DIST. – PURBA BARDHAMAN ★ PIN – 713122



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Green Audit

2018 - 2019



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Animesh K. Mondal



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The External Quality Assurance Cell has conducted Environment Audit of the Academic Year **2021-22** for **Tehatta Sadananda Mahavidyalaya, Tehatta, Kalna, Purba Bardhaman, West Bengal, 713122.**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Academic policies adopted by the institution. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework the Departments to ensure that they are in compliance with the applicable regulations, policies and standards.

During the initial planning of the audit, an analysis was conducted in order to identify, evaluate and prioritize the quality parameters in line with the global accreditation standards. The analysis was based upon an examination of the policies, manuals and standards that govern the academic quality and sustainability, on data analysis, and on the results of preliminary interviews with personnel considered key in the academic/administrative management in the campus. The criteria and methods used in the audit were based on the identified risks.

The methodology used included physical inspection, review of the relevant documentation, and interviews. Reliance was placed on the third-party data provided by the institution.

Statement of Assurance

This audit has been conducted in accordance with the International Standards for the Professional Practice of Internal Auditing.

In our professional judgment, sufficient and appropriate audit procedures were completed and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit with the established Criteria.

Amalish Kr. Mandal



MANAGEMENT SYSTEM CONSULTANCY

Authorization:

- ISO 9001:2015 (Quality) (NABET Accredited, Certificate No. IRCLASS/QMS/2016/02/03/01 of 07) Lead Auditor Certificate
- ISO 9001:2015 (Quality) (CQI-IRCA Accredited, Certificate No. 44514, CQI-IRCA Delegate ID: 111285) Lead Auditor Certificate

UMA Apartment, Rishi Arobindo Road, Madhyamgram, Kolkata-700130

Email ID: managementsystemconsultancy@gmail.com

Website: www.mangementsystemconsultancy.in



MANAGEMENT SYSTEM CONSULTANCY

Service Provided: Legal, Safety, Fire, Environment, Energy Audit and ISO, Information Security, Automotive, NABL, NABH, CSR, Food, Medical Certification and Training services

Environment Audit Certificate

This Certificate is awarded to

Tehatta Sadananda Mahavidyalaya

As part of the Institution's Initiatives for a Healthy & Sustainable College the audit was conducted.

We appreciate the immense efforts taken by Staff and Students towards the Environment Protection and Conservation.

Issued on April, 2021 valid till March, 2022

Amalash kr. mandal



MANAGEMENT SYSTEM CONSULTANCY

Authorization:

- ISO 14001:2015 (Environment) (CQI-IRCA Delegate ID: 173839, Certificate No. 46957) Lead Auditor Certificate
- ISO 9001:2015 (Quality) (NABET Accredited, Certificate No. IRCLASS/QMS/2016/02/03/01 of 07) Lead Auditor Certificate
- Certified PG Diploma in Environment and Sustainable Development (En Roll No-BU/13/706432) from Bundel khand University.
- Certified PG Diploma in Fire and Safety Management from Jawaharlal Nehru Technological University Hyderabad (Cert. No. 15359120506)

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