GREEN AUDIT REPORT

For the Year 2020 to 2023





GUSHKARA MAHAVIDYALAYA

GUSKARA, PURBA BARDHAMAN PIN – 713128, WEST BENGAL

Date: 16/09/2023

AUDIT REPORT ON ENVIRONMENTAL AUDIT/ GREEN AUDIT

CERTIFICATE

This is to certify that the Environmental Audit/Green Audit Report of Gushkara Mahavidyalaya, Gushkara, Purba Bardhaman is based on the original data collected during the periods of 2020-'21, 2021-'22 and 2022-'23. This has been independently assessed and is applicable to the service range of providing quality Education, Training and Mental Support to the students for their enriched future and career. Further, it is certified that the baseline data was prepared by internal Institutional Green Audit Team of Gushkara Mahavidyalaya, Gushkara and submitted to us. The content of the baseline data of the study has been personally verified by the Expert Team constituted by the University of Burdwan including external expert members 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 Institutional Green Audit Team during preparing their Report of the concerned year.

Dr Fanmoy Dasgupta
Professor & Head
Deptt. of Business Administration
The University of Burdwan
Burdwan

Dr. Tanmoy Dasgupta
Professor
Dept. Of Business Administration
The University of Burdwan
Burdwan - 713104, W.B.

Dr Apurba Ratan Ghosh Professor & Head Deptt. of Environmental Science The University of Burdwan Burdwan

Professor & Head Environmental Science The University of Burdwan Burdwan Dr Gouri Sankar Bandyopadhyay Principal Syamsundar College

Syamsundar College Shyamsundar Purba Bardhaman

Dr. Gouri Sankar Bandyopadhyay
Principal
Syamsundar College
Ro. Shyamsundar, Dist. Purba Bardhaman
W.B. 11344

Date: 16/09/2023

To The Principal Gushkara Mahavidyalaya Gushkara Purba Bardhaman W.B. - 713128

Subject: Audit Report Submission by the University Audit Team

Sir

After verification of all the aspects in the College and necessary assessment of the report on "Green Audit" submitted by your College for the academic year 2020-'21, 2021-'22 and 2022-'23 we are hereby submitting the Reports on "Environmental or Green Audit" of your College for 2020-'21, 2021-'22 and 2022-'23 in the attached sheet for your kind perusal and further necessary action at your end.

We request you to please acknowledge and oblige.

Thanks and regards,

Dr Tanmoy Dasgupta Professor & Head

Deptt. of Business Administration The University of Burdwan

Burdwan

Dr. Tanmoy Dasgupta
Professor
Dept. Of Business Administration
The University of Burdwan
Burdwan - 713104, W.B.

Dr Apurba Ratan Ghosh Professor & Head Deptt. of Environmental Science The University of Burdwan Burdwan

Professor & Head
Environmental Science
The University of Burdwan

Yours sincerely,

Dr Gouri Sankar Band opadhyay Principal

Syamsundar College Shyamsundar

Purba Bardhaman

Principal
Syamouhum college

Report of Environmental Audit/Green Audit

1.0 Introduction

The Environmental Audit or Green Audit can be referred as systematic identification, quantification, recording, reporting and analysis of the different aspects as well as components of environmental diversity. The 'Environmental Audit'/ 'Green Audit' aims to evaluate the various parameters involved in environmental practices in and around the HE Institutional campus, actually, it has some impacts on the congenial and environment-friendly atmosphere as well as 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.

1.1 About the College

Gushkara Mahavidyalaya, Gushkara situated close to the banks of the river Kunur in the heart of Municipal Town and was founded on 9th August, 1965 through the contribution and strong desire of an eminent academician late Rakhahari Bakshi and generous support from the prominent citizens of the locality. The College has a lush green garden containing some rare plants sprawling over a vast expanse of land. It has an area of 7.3 acres donated by Gushkara Purnananda Public Institution. During the course of time, the institutional vision has widened and developed to establish the goals of progress by providing opportunities for higher education. Area is endowed with fragrance of Santiniketan the place of Rabindranath Tagore in one hand and other with some archaeological evidences of human habitation in the area surrounding the confluence of Ajay and Kunur dates back to at least three thousand years. College is well connected by rail-ways and road-ways, so, a large number of students are coming from different adjacent areas like Chittaranjan, Asansol, Durgapur, Katwa, Kalna, Memari, Bolpur and Arambag block for pursuing their Bachelor's degree in various disciplines. College has started their teaching programmes by commencing UG Pass course programmes. It is affiliated to the University of Burdwan since inception. Presently, it is offering undergraduate course in Arts, Science and Commerce and one PG in Bengali. A large number of students are of first generation learner belonging to scheduled caste, scheduled tribe and minority (Muslim) communities. There are 14 honours subjects, with 16 general. College has two hostels one for Girls and one for Boys.

2.0 Executive Summary

In accordance with the Format of Green Audit and Evaluation Plan of Gushkara Mahavidyalaya, Gushkara, Purba Bardhaman, West Bengal for three consecutive years 2020-'21, 2021-'22 and 2022-'23 this Audit was conducted in the month of September 2023 and prepared a consolidated Green/Environmental Audit Report.

The rapid urbanization and economic development along with population explosion with high density of population and adjacent areas have led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus in the nearby College which will lead for sustainable development and be the spokesman of the region. Gushkara Mahavidyalaya is seriously concerned and believes that there is an urgent need to address these local problems and redress the conditions. Being an educational institution of higher learning, the College has initiated 'The Green Campus' program few years back. The purpose of the audit was to ensure that the practices followed in the Campus are in accordance with the Environmental Policy adopted by the College. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the different departments are in compliance with the applicable regulations, policies and standards.

3.0 Significant Observations

- 1. College has 51% green area and has taken efforts for sustainable development on the College campus.
- 2. College has formed the team of faculty and student as members of Environmental Committee which work to maintain biodiversity on the campus and also participate in preventing pollution in and around the campus.
- 3. Some of the best practices such as campus cleaning, maintaining tree plantation, introducing plastic free zone, No Horn area, *etc.*, are followed in the campus.
- 4. College has installed the solar panels of 10 KVA per year in collaboration with WBREDA.
- 5. College is maintaining the disposal of all sorts of wastes, solid, liquid, biological and hazardous chemicals wastes through Local Municipality.
- 6. College has conducted Environmental Awareness programmes and workshop for faculty and students, and involved the students in maintaining the cleanliness of the campus.

7. All teaching and non-teaching staff members, students are advised to use recyclable materials for storing their food, water *etc.*, to reduce the wastes.

However, after detailed paper examinations and physical verification it is noted that, some of the practices are required to be followed by the College in implementing the Green Policy of the institution and the applicable standards. In addition, certain processes could benefit from further review in order to improve their efficiency, fairness and consistency.

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

3.1 Statement of Assurance

This audit has been conducted in accordance with the report submitted by the College Administration. 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.

4.0 Summary of Findings

The main findings of the audit show that, in general, all the departments, faculty and students are to some extent aware about the need for environmental protection at a general level. It was observed that College has installed solar panel and the electricity generated is distributed through power grid. It was also observed they are following some practices such as sock pits, maintaining a green environment with medicinal plants, introducing plastic free zone, *etc.*, in the campus. All biodegradable and non-biodegradable wastes are safely disposed with the help of Local Municipality.

On detailed review, it was observed that the college has already taken some measurements to implement the Green Policy with applicable standards. In addition, College is taking care of to improve their efficiency, fairness and consistency.

GREEN AUDIT WORKING FORMAT

5.0 Audit Framework and detailed findings

The following audit framework is used for conducting Green Audit in 2020-'21, 2021-'22 and 2022-'23. The framework also lists the findings and observations for every criterion.

Control objective	Control(s)	Audit Observation
Green initiatives	Maintenance of green environment	College has taken some initiatives to make aware among the stakeholders through different forms; College is maintaining green environment through plantation programmes every year, clean and smoking free campus, green campus, etc. The College is following the method to
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse		reduce the wastes through proper disposal system.
recyclable leruse	Compost, or cause to be composted, all organic waste, green waste and unrecycled cardboard produced in or collected from kitchens, gardens, offices and rooms.	composting pit for composting the all organic wastes, green wastes, etc., collected from kitchens, gardens, hostels and canteen.
	Recycle or safely dispose of White goods, computers and electrical appliances.	maintained for collection of decomposable and non-decomposable waste and finally wastes are safely disposed by local Municipality. All electronics wastes and electrical wastes are disposed as per protocols.
proportion	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	
~	Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives	Yes, the College has taken some initiative to promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives. Yes, the College disposes all waste, whether solid or otherwise, and ensures that it is no released directly to the environment.
	ensure that it is not released directly to the	Yes, the College has installed solar grid
Reduce energy consumption, especially of energy derived from fossil fuels		year and the electricity generated is contributed <i>via</i> power grid.

Control objective	Control(s)	
Green initiatives	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral Look in the control of t	College uses Green Generator.
	Look into the possibility of on-site microgeneration of renewable electricity. Give preference to the most energy efficient and environmentally sound appliances available.	power of to KVA capacity.
	bulbs this includes only using energy-saving light	use LED as much as practicable.
Reduce energy consumption, especially of energy derived from fossil fuels	Provide energy efficient heating systems, with adjustable controls for individual heating appliances wherever possible, and ensure that comprehensible instructions are available to staff and students on the use of heating controls	neating system is not necessary.
	incentives and information to	by turning off the appliances whe not required. MCP is fixed in every floor of th building.
		the bests to put the main switch of when there is no need of
	Ensures that all electronic and electrical equipment such as computers, are switched of when not in use, and is generally configured in power saving mode when such option is available	It is now practised.
	Laboratory space & status of equipment either running on standby mode, reduce the energy consumption on standby mode or minimize the running of equipment's on standby mode.	departments is adequate an equipment are running on standb mode when not in use.
	Purchase efficient and environmentally sound appliances in order to fulfill the commitments in section 2, and consider replacing old stock with 'greener, more efficient alternatives.	about increasing greenery b planting in front of the premises. College has taken initiative recently in Dengue eradication program inside the Campus. Proposed for fruit trees or canopytrees.
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 well connected wit bus and train services, so all of th members mostly avail publi transport.

Control objective	Control(s)	Audit Observation
Minimize the use of	Reduce the proportion of travel on	No College vehicle.
unsustainable	College business carried out in private	
transport	transport and eliminate unnecessary and	
	inefficient use of College vehicles.	Gullara daga not promote car
	Promote car sharing I car pool among the	College does not promote
	students and faculty members ,	sharing/car pool among the students and faculty members.
	D. '	1 maintenance
Minimize	Repair sources of Water leakage, such as	of pipelines are done to control
consumption of water,	dripping taps and showers as quickly as	water wastage.
	possible. Install appliances which reduce	1 -aible
	1 1	Tractised as mass as 1
	water consumption Encourage a decrease in water usage	Ves College encourages the staff,
	among staff, students and conference	students and conference guests for
	quests	decrease in water usage.
	Use an officient and hygienic water	Yes college has a hygienic water
	storage mechanism is to minimize the loss	storage mechanism to minime
	of water during storage	loss of water during storage as
		stored
	Minimize wastage of water and use of	College has installed appropriate
	electricity during water filtration process.	machinery for supplying the sale
	If used such as RO filtration process and	drinking water to an the
	that the equipment's used for such	stakeholders.
	usage are regularly serviced, and the	College has seven Cooler & Aqua
	wastage of water is not below the	Guard Instance
	industry average for such equipment's	Sensor-based water supply system
	used in similar capacity	is adopted.
	Install Water recycling mechanism, such	Rainwater harvesting system is
	as rainwater harvesting system	functional.
	Example that all cleaning products used by	Negligible amount of washing
	the control of the co	Hamds are used in the College and
	impact on the environment, i.e. are	all the toilet cleaners are Eco
	biodegradable and non-toxic. even where	friendly.
	this exceeds the Control of Substances	
	Hazardous to Health (COSHH)	
	regulations	
	Minimize the use of fertilizers and	Organic fertilizers are used in the
	posticides in college grounds, opting for	College.
	the use of compost produced on site-	No pesticides are used.
	wherever possible	No tavia ahamigala ara ingludadi.
	Dispose the chemical waste generated	the cyllabus of practical curriculum
	from the laboratories in a scientific	of the University of Burdwan.
	manner	Most of the wastes generated are
		water-soluble. Measure has been
		taken to minimize chemical wastes
		to drain-off using sock pit.
		9

Control objective	Control(s)	
Control	Reduce the practice of burning plastic and other material that	Audit Observation
	other material that emits harmful gas on	No such burning.
	burning is prevented in the campus.	
	Establish a Garden in the campus	
	a sarden in the campus	College has renovated the existing
		adjacent pond and greenery all
	Encourage the faculties and the	round through plantation.
	Encourage the faculties and students to plant trees in the garden.	NSS and students of Botany and
Engure that	Condition	other departments are taking part.
Ensure that environmental	workshops as a part of the program.	
awareness workshops	workshops as a part of the program.	awareness programmes time-to-
environmental		time.
environmentar	Conduct events such as all the	T 1
	Conduct events such as plant trees to	Few programmes have undertaken
	spread environmental awareness among the students	in this regard.
		College does not directly or
	at which the conege	
	acpietion and	indirectly participate in depletion and degradation of natural
	degradation of natural resources.	
	Promote environmental evyenesses as a	resources.
	Promote environmental awareness as a part of course work in various	marks in the University Syllabus
	projects, and community service	for all the students of all streams to develop Environmental Awareness
	projects, and community service	(80 written + 20 Project).
Ensure that the	Review architecture of existing buildings	
buildings conform to	and reviews way, in consultation with	well-equipped with sunlight and
green standards.	experts, to reduce usage of energy for	
green standards.	such buildings, offering greatest	nesii aii.
	efficiency for energy and water usage, and	
	reducing carbon emission	
Ensure that the		College has proposed to frame the
Environmental Policy	Committee that will hold responsibility	
is enacted enforced	for the enactment, enforcement and	Eco-Club only for students is
and reviewed	review of the Environmental Policy. The	working since 2019.
and reviewed	Environmental Committee shall be the	
	source of advice and guidance to staff and	
	students on how to implement this Policy	
	Require that every staff and student	College is trying to create
	member recognizes their responsibility to	awareness programmes to motivate
	ensure that the commitments in the	the students.
	Environmental Policy are properly put	
	into practice	
	Ensure that an audit is conducted annually	Present Report is based on data of
	and action is taken on the basis of audit	the session 2020-'21, 2021-'22 and
	report, recommendation and findings	2022-'23.

60 Recommendations

6.0 the audit, following	recommendations were made to the
Considering the addit, Torrowing	recommendations were made to the management.

Considering	were made to the management.
Criteria	Recommendations
Publication of Audit Report	Resolutions of the "College Environmental Committee" along with audit report be published in the College website.
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse	1. Advanced Composting system may be developed for bio-wastes. 2. College may go for partnership with local Municipality in monitoring of disposal of solid wastes through providing outreach program. College may initiate the process for vermicomposting of leaf litters, organic wastes <i>etc</i> .
Reduce energy consumption, especially of energy derived from fossil fuels	 Use energy efficient lighting fully in and around the campus; outdoor lighting be managed and followed in the order of ecofriendly system. More number of Energy and flow meters to be installed for monitoring of energy and water consumption building wise/department wise.
Maintenance of Campus and biodiversity	 PUC (Pollution under control) certificate for all the vehicles entering the campus to be made mandatory and to be checked by security. Students be involved in maintaining Medicinal Gardens and PBR for local areas. Students should get exposure to maintain the People's Biodiversity Register through training, workshop etc., every year.
Proper maintenance of wastes	1. Total wastes including solid, liquid, etc., wastes be managed carefully.
Project-based learning on Environment related subjects	1. More number of projects be initiated to start with technical, skill-oriented and hands-on-training programmes for environmental monitoring.
Use of Rainwater harvesting system	 Judicial application of rainwater be initiated through rainwater harvesting and subsequent treatment. Drainage system be improved.

7.0 Objectives and Scope

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

8.0 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.

- a. 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.
- b. Review of the Documentations
- c. 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 Environmental Committee and also members of the Committee.

Physical Inspection

Physical inspection was made on 16th September 2023 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: 16/09/2023

Place: Gushkara Mahavidyalaya

Gushkara

Signed by College Principal with Seal

Dr Tanmoy Dasgupta

Professor & Head

Deptt. of Business Administration The University of Burdwan

Burdwan

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Professor

Dept. Of Business Administration
The University of Burdwan
Burdwan - 713104, W.B.

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Dr. Gouri Sankar Bandyopadhyo Principal Syamsundar College RO.-Shyemsundar, Dist. Purba Bardhama W.B. 713434



This is to certify that

GUSHKARA MAHAVIDYALAYA

P.O. GUSKARA, DIST. PURBA BARDHAMAN, **WEST BENGAL - 713128, INDIA**

has been independently assessed by QRO and is compliant with the requirement of:

ISO 14001:2015

Environmental Management System

For the following scope of activities:

PROVIDING THE COURSES OF UNDER GRADUATE, POST GRADUATE, CERTIFICATE AND INTERNSHIP COURSES ALONG WITH SUSTAINABLE DEVELOPMENT

Date of Certification: 25th July 2023 1st Surveillance Audit Due: 24th July 2024 2nd Surveillance Audit Due: 24th July 2025

Certificate Expiry: 24th July 2026

Certificate Number: 305023072533E









Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit. (In case surveillance audit is not allowed to be conducted: this certificate shall be suspended / withdrawn).

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