

# 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.

  
16/09/23


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16/9/2023

Dr. Gouri Sankar Bandyopadhyay  
Principal  
Syamsundar College  
Shyamsundar  
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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,

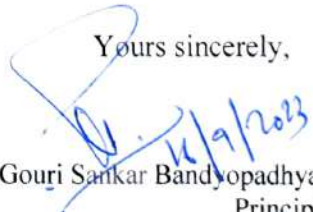
Yours sincerely,

  
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Principal  
Syamsundar College  
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*Principal*  
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**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, <i>etc.</i>
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 college staff offices.	The College is following the method to reduce the wastes through proper disposal system.
	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.	College has to prepare a composting pit for composting the all organic wastes, green wastes, <i>etc.</i> , collected from kitchens, gardens, hostels and canteen.
	Recycle or safely dispose of White goods, computers and electrical appliances.	Waste boxes of different colours are 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.
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse	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	College tries to use biodegradable materials as much as possible; maintaining plastic as well as smoking free campus.
	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.
	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 waste, whether solid or otherwise, 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.	Yes, the College has installed solar grid power having a capacity of 10 KVA per year and the electricity generated is contributed <i>via</i> power grid.

Control objective	Control(s)	Audit Observation
Green initiatives	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity	The College has no choice other than WBSEDCL. College uses Green Generator. College generates 80% e-notice.
	Look into the possibility of on-site micro-generation of renewable electricity.	College has installed solar grid power of 10 KVA capacity.
	Give preference to the most energy efficient and environmentally sound appliances available, this includes only using energy-saving light bulbs	The College is taking initiative to 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	Considering the local climate heating system is not necessary.
	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	Misuse of electricity is controlled by turning off the appliances when not required. MCP is fixed in every floor of the building.
	Monitor and understand the importance of different sources of college energy consumption, and set appropriate and measurable targets for a reduction in certain areas of consumption and/or in the overall consumption of energy.	The College is intended to follow the bests to put the main switch off when there is no need of electricity.
	Ensures that all electronic and electrical equipment such as computers, are switched off 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.	Laboratory space in science departments is adequate and equipment are running on standby 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.	College has a positive attitude about increasing greenery by planting in front of the premises. College has taken initiative recently in Dengue eradication program inside the Campus. Proposed for fruit trees or canopy trees.
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 with bus and train services, so all of the members mostly avail public transport.



<b>Control objective</b>	<b>Control(s)</b>	<b>Audit Observation</b>
Minimize the use of unsustainable transport	Reduce the proportion of travel on College business carried out in private transport and eliminate unnecessary and inefficient use of College vehicles.	No College vehicle.
	Promote car sharing I car pool among the students and faculty members	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 water wastage.
	Install appliances which reduce water consumption	Practised as much as possible.
	Encourage a decrease in water usage among staff, students and conference guests	Yes, College encourages the staff, students and conference guests for decrease in water usage.
	Use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage	Yes, college has a hygienic water storage mechanism to minimize the loss of water during storage as stored
	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	College has installed appropriate machinery for supplying the safe drinking water to all the stakeholders. College has seven Cooler & Aqua Guard installed in different locations. Sensor-based water supply system is adopted.
	Install Water recycling mechanism, such as rainwater harvesting system	Rainwater harvesting system is functional.
	Ensure that all cleaning products used by college 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 washing liquids are used in the College and all the toilet cleaners are Eco friendly.
	Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site- wherever possible	Organic fertilizers are used in the College. No pesticides are used.
	Dispose the chemical waste generated from the laboratories in a scientific manner	No toxic chemicals are included in the syllabus of practical curriculum of the University of Burdwan. Most of the wastes generated are water-soluble. Measure has been taken to minimize chemical wastes to drain-off using sock pit.

Control objective	Control(s)	Audit Observation
	Reduce the practice of burning plastic and other material that emits harmful gas on burning is prevented in the campus.	No such burning.
	Establish a Garden in the campus	College has renovated the existing adjacent pond and greenery all round through plantation.
	Encourage the faculties and students to plant trees in the garden.	NSS and students of Botany and other departments are taking part.
Ensure that environmental awareness workshops environmental	Conduct environmental awareness workshops as a part of the program.	College conducts environmental awareness programmes time-to-time.
	Conduct events such as plant trees to spread environmental awareness among the students	Few programmes have undertaken in this regard.
	Reduce the rate at which the College contributes to the depletion and degradation of natural resources.	College does not directly or indirectly participate in depletion and degradation of natural resources.
	Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service	Compulsory ENVS paper of 100 marks in the University Syllabus for all the students of all streams to develop Environmental Awareness (80 written + 20 Project).
Ensure that the buildings conform to green standards.	Review architecture of existing buildings and reviews way, in consultation with experts, to reduce usage of energy for such buildings, offering greatest efficiency for energy and water usage, and reducing carbon emission	All building with big rooms is well-equipped with sunlight and fresh air.
Ensure that the Environmental Policy is enacted, enforced and reviewed	Establish a College 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 proposed to frame the Environment Policy. Eco-Club only for students is working since 2019.
	Require that every staff and student member recognizes their responsibility to ensure that the commitments in the Environmental Policy are properly put into practice	College is trying to create awareness programmes to motivate the students.
	Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings	Present Report is based on data of the session 2020-'21, 2021-'22 and 2022-'23.

## 6.0 Recommendations

Considering the audit, following recommendations 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	1. Use energy efficient lighting fully in and around the campus; outdoor lighting be managed and followed in the order of eco-friendly system. 2. 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	1. PUC (Pollution under control) certificate for all the vehicles entering the campus to be made mandatory and to be checked by security. 2. Students be involved in maintaining Medicinal Gardens and PBR for local areas. 3. Students should get exposure to maintain the People's Biodiversity Register through training, workshop <i>etc.</i> , every year.
Proper maintenance of wastes	1. Total wastes including solid, liquid, <i>etc.</i> , 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	1. Judicial application of rainwater be initiated through rainwater harvesting and subsequent treatment. 2. 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 16<sup>th</sup> 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

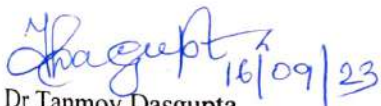
Place: Gushkara Mahavidyalaya  
Gushkara

Signed by  
College Principal with Seal



Dr Gouri Sankar Bandyopadhyay  
Principal  
Syamsundar College  
Shyamsundar  
Purba Bardhaman

**Dr. Gouri Sankar Bandyopadhyay**  
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# *Certificate of Registration*

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

2<sup>nd</sup> Surveillance Audit Due: 24th July 2025

1<sup>st</sup> Surveillance Audit Due: 24th July 2024

Certificate Expiry: 24th July 2026

**Certificate Number: 305023072533E**



Head of Certification

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).

The Validity of this certificate can be verified at [www.qrocert.org](http://www.qrocert.org)

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

**India Office : QRO Certification LLP**

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