

BALAGARH BIJOY KRISHNA MAHAVIDYALAYA

P. O. - BALAGARH • DIST. - HOOGHLY • WEST BENGAL - 712 501

NAAC ACCREDITED

Ref. No.

Date

From,
President / Principal / Teacher-in-charge

Date: 18.10.2022

To
The Inspector of Colleges,
The University of Burdwan,
Rajbati, Burdwan.

Sub: Request for Academic Audit

Respected Sir,

We wish to inform you that the College is preparing for 3rd accreditation by NAAC in 2023. In this regard, we would request you to carry out an academic audit to assess our academic performance during the past few years. Your assessment and advice would help us in understanding our drawbacks and incorporate corrective measures.

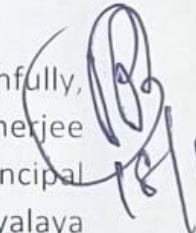
Therefore, please conduct an Academic Audit in our College at your convenience and please inform us about requisite procedures at our end.

With regards,

Yours faithfully,
Pratap Banerjee
Principal

Balagarh Bijoy Krishna Mahavidyalaya
Principal

Balagarh B. K. Mahavidyalaya
Balagarh, Hooghly


18/10/22

The University of Burdwan

Department of Inspector of Colleges
Golden Jubilee Building
Purba Bardhaman- 713104
West Bengal



E-mail : icburuniv@gmail.com
ic@buruniv.ac.in
Website : http://www.buruniv.ac.in

No. IC/Audit Committee/P-67/1395

Date : 26.12.2023

To
The Principal,
Balagarh Bijoy Krishna Mahavidyalaya,
P.O. Balagarh,
Dist. Hooghly,
West Bengal -712501.

Sir,

With reference to your letter vide no. Nil, dated, 26.12.2023, I am directed to inform you that an Audit committee duly constituted by the Hon'ble Vice-Chancellor, B.U. consisting the following members will pay a visit to your college within a short period for Academic Audit purpose.


Members of the Audit Committee :

- ❖ Prof. Gouri Sankar Bandyopadhyay, Principal, Syamsundar College, P.O. Shyamsundar, Dist.- Purba Bardhaman & Member of the Court, B.U.
- ❖ Prof. Tanmoy Dasgupta, Dept.of Bussiness Administration, B.U.
- ❖ Prof. Apurba Ratan Ghosh, Head, Dept. of Environmental Science, B.U.

You are therefore requested to contact the members of Audit Committee for above mentioned purpose.

Thanking you,

Yours faithfully,


(Dr.S.K.Chowdhury)

Registrar

&

Inspector of Colleges(Addl.Charge)


The University of Burdwan

Date : 26.12.2023

No. IC/Audit Committee/P-67/1395/1(3)

Copy Forwarded for information to :-

- ❖ Prof. Gouri Sankar Bandyopadhyay, Principal, Syamsundar College, P.O. Shyamsundar, Dist.- Purba Bardhaman & Member of the Court, B.U.
- ❖ Prof. Tanmoy Dasgupta, Dept.of Bussiness Administration, B.U.
- ❖ Prof. Apurba Ratan Ghosh, Head, Dept. of Environmental Science, B.U.


(Dr.S.K.Chowdhury)

Registrar

&

Inspector of Colleges(Addl.Charge)

The University of Burdwan



Balagarh Bijoy Krishna Mahavidyalaya

Hasimpur, Balagarh
Hooghly – 712501
West Bengal

Mobile: +918670272229

Email.: bbkm.hooghly@gmail.com

Website: bbkm.ac.in

A COMPREHENSIVE GREEN REPORT OF BALAGARH BIJOY KRISHNA MAHAVIDYALAYA, BALAGARH

BBKM requested to its affiliating University, The University of Burdwan, to nominate an Expert Team for Academic Audit and Green Audit of this college as on 18.10.22. Again the Principal approached to the Registrar for inspection of college campus and to conduct the said audit at earliest. On 26.12.2023 the University informed the college that a committee was constituted by the VC of the University of Burdwan, for spot inspection and for making academic and green audit and to place the Principal to submit audit report for validity and reliability of state of affairs of the institution. Dr. Apurba Ratan Ghosh a Professor & head, the Dept. of Environmental Science, The University of Burdwan was appointed in the team to conduct the Green Audit. This team submitted a certificate and detailed report after verification of all the aspects of environmental issues in this college. The “Green Audit” report includes “Energy Audit” submitted by our college for the period of 2022-23. The Audit Report of “Environmental/Green Audit” submitted by this expert team contains detailed analysis based on the basis of total green campus management, **ENERGY MANAGEMENT, WATER MANAGEMENT AND WASTE MANAGEMENT**. The certificate was given after studying and analysing the baseline data collected by BBKM Nature Committee of this College. Nature Committee teacher members of Balagarh Bijoy Krishna Mahavidyalaya, Balagarh cooperated wholly with the team sent by the University of Burdwan,


Digitally signed
by PRATAP
BANERJEE

Date: 17/02/2024


**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 Balagarh Bijoy Krishna Mahavidyalaya, Balagarh, Hooghly is based on the original data collected during the period of 2022-'23. This 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 Environmental Committee team members of Balagarh Bijoy Krishna Mahavidyalaya, Balagarh, Hooghly 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, 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 College Environmental Committee team members during preparing their Report of the concerned year 2022 - '23.


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
Deptt. Environmental Sc.
The University of Burdwan
Burdwan, W.B.


Dr. Gouri Sankar Bandyopadhyay
Principal
Syamsundar College
Shyamsundar
Purba Bardhaman
Dr. Gouri Sankar Bandyopadhyay
Principal
Syamsundar College
P.O.-Shyamsundar, Dist.-Purba Bardhaman
W.B. 713424

Date: 17/02/2024

To
The Principal
Balagarh Bijoy Krishna Mahavidyalaya
Balagarh
Hooghly
West Bengal

Website: <https://www.bbkm.ac.in>

Email: bbkm_hooghly@rediffmail.com/bbkm.hooghly@gmail.com

Subject: Green Audit Report Submission from Experts

Sir


After verification of all the aspects in the College and necessary assessment of the report on "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,


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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Professor & Head
Deptt. of Environmental Science
The University of Burdwan
Burdwan

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W.B. 713424

BALAGARH BIJOY KRISHNA MAHAVIDYALAYA
BALAGARH, HOOGHLY

ESTD.- 1985

*GREEN AUDIT REPORT
ACADEMIC YEAR: 2022-23*

PREPARED BY
The Audit Committee
The University of Burdwan
Burdwan

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 Executive Summary

In accordance with the "Format of Green Audit: Questionnaire" of Balagarh Bijoy Krishna Mahavidyalaya, Balagarh, Hooghly for 2022-'23, the Audit is performed on 17th of February, 2023. Balagarh Bijoy Krishna Mahavidyalaya started on 1985 and came under the affiliation of the University of Burdwan.

College was first accredited by NAAC in 2007 with C++ Grade (66.5%) and second on 2016 with C with score of 1.83.

The purpose of the audit was to ensure that the practices followed in the campus 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 as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. 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.

GREEN AUDIT WORKING FORMAT

5.0 Audit Framework and detailed findings

The following audit framework is used for conducting Green Audit in 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 controls to reduce the absolute amount of waste that it produces from the departments, staff offices, inside Campus, etc.
	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 MoU may be signed with Local Panchayat.</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>Food-wastes from Canteens, and the fallen dead leaves from the garden are to be managed in the composting 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</i>
	Use reusable resources and containers and avoid unnecessary packaging where possible	College has taken initiative for solid waste management through local Panchayat.
	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., are disposed through Local Panchayat.

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, cent percent e-notice (100%) for academic/ administrative purposes, maintaining office-copy as well.
	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity	College is required to install a new sources of renewable and carbon-neutral electricity.
	Look into the possibility of on-site micro-generation of renewable electricity.	College proposes to install 20 KW of SOLAR PANNELS in the main campus.
	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, 125 in number as effective alternatives and 5 CFL.
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	<i>College has to develop a mechanism to reduce the misuse of electricity by turning off the appliances when not required. 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 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 well 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.
	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 four Aqua guards under AMC at the strategic location for the students and other members including three Water Purifier and Cooler.
	Install Water recycling mechanism, such as rain water harvesting system	<i>Rainwater harvesting mechanism with groundwater recharge system has been installed.</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, and herbicides are used 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>Chemistry department will take care of disposing the chemical wastes.</i> <i>Chemical wastes are to 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	Tree plantation programmes are followed in different occasions on year-wise.
	Establish a Garden in the campus	<i>Students should be trained to handle 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, fruit-plantation like palm, dates etc., may be encouraged mostly considering the suitability of the region.</i>
	Reviews periodically the list of trees planted in the garden periodically	<i>Periodical maintenance of plants be followed.</i>
Ensure that environmental awareness is created	Conduct environmental awareness workshops as a part of the program.	College celebrates World Environment Day, World Water Day, Wetland Day, Energy Day, etc.
	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	College should conduct environmental awareness programmes, World Sustainable Day, etc., 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 ENVIS paper as per University guidelines for all the students of all streams are mandatory to have an 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 an Environmental Audit Committee and conducted so far five (08) meetings. NSS unit actively engaged in community services. College has signed a MoU with WWF.
	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 be reframed through inclusion of representatives from students to maintain the campus.
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	College has Coordinator, but no Green Officer as such in the Environmental Committee. <i>Principal should act as Chairman of the Committee.</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	<i>College has a Green Policy. College campus may be declared as 'Plastic Free Zone', may celebrate 'No Vehicle Day'.</i>
	Ensure that the Environmental Policy is enforced regardless of whether its requirements exceed the mandate of the law	<i>College Environmental Committee has to take the responsibility to reframe the Green Policy of the College for strengthening.</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	First 'Green Audit' is conducted on Feb. 2024 based on the report of year 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	<ol style="list-style-type: none">1. The College should go for ISO 9001:2015 Certification.2. Composting system be developed for wastes in a proper way.3. Composting/Vermicomposting should be developed in the College Campus.
Reduce energy consumption, especially of energy derived from fossil fuels,	<ol style="list-style-type: none">1. Use energy efficient lighting fully in and around the campus; outdoor lighting be managed in order to develop ecofriendly system.2. Sensor-based monitoring system for water consumption in building wise/department wise be followed.
Maintenance of Campus and biodiversity	<ol style="list-style-type: none">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 aware importance of Medicinal Gardens and PBR for different locations. Proper training, workshop on maintenance of PBR for campus and different locations as an outreach program be initiated.3. Choice-plantation, fruit-plantation, <i>etc.</i>, be followed.4. Proposal of Butterfly Garden may be initiated.
Proper cleaning of water storage Tanks	<ol style="list-style-type: none">1. Proper cleaning the water tanks on regular basis considering the health & hygiene of the all stakeholders be followed.2. Wastage of water be managed properly.
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.

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 17th of February 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: 17/02/2024

Place: Balagarh Bijoy Krishna Mahavidyalaya
Balagarh, Hooghly



Signed by

College Principal with Seal

Dr. Pratap Banerjee

Principal

Balagarh Bijoy Krishna Mahavidyalaya
Balagarh, Hooghly - 712501



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Burdwan

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Purba Bardhaman

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Principal
Syamsundar College
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