Certificate of Registration

This is to Certify That Environmental Management System of

PURBASTHALI COLLEGE

VILL. & P.O. PARULIA, DIST. PURBA BARDHAMAN - 713513, WEST BENGAL, INDIA

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope :

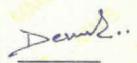
PROVIDING UNDER GRADUATE DEGREE COURSES OF B.A. HONS. BENGALI, B.A. HONS. HISTORY, B.A. HONS. EDUCATION, B.A. HONS. PHILOSOPHY, B.A. HONS. SANSKRIT AND B.A. GENERAL

Certificate No : 24MEEPV18

Initial Registration Date: 23/01/2024 Issuance Date: 23/01/2024

Date of Expiry : 22/01/2027

1st Surve. Due : 23/12/2024 2nd Surve. Due : 23/12/2025









DIRECTOR

Magnitude Management Services Pvt. Ltd.

Third Floor, A-60, Sector-2, Noida; Gustam Budh Nagar, U.P. 201301, India, e-mail: infolis mosscerification.com, website: sewes musscerification com
"Subject to Successful Surveillance Audit is not Surveillance audit is not allowed to be conducted; this terrificate is shall be inspended/withdround
Certificate Verification: Please Rechirch the validity of certificate at hity flyowes municertification conductivelines asyst or wrove musicersification conductivelines.

PURBASTHALI COLLEGE ESTD. 2009

REPORT OF ENVIRONMENTAL AUDIT/GREEN AUDIT 2022 - 2023

Prepared by
The Audit Committee
The University of Burdwan
Burdwan

Date: 23/12/2023

To The Principal Purbasthali College Parulia Purbasthali-II Purba Bardhaman West Bengal

E-mail: purbasthalicollege@gmail.com

Subject: Environmental Audit Report Submission from Experts

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,

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 Rlatan Ghosh

Professor & Head

Deptt. of Environmental Science

The University of Burdwan

Burdwan

Professor & Head Deptt. Enviornmental Sc. The University of Burdwan Burdwan, W.B.

Dr Sibaprasad Rudra Former Principal

Vivekananda Mahavidyalaya

Sripally

PurbaBardhaman

Principal (Former Vivekananda Mahavidyalaya BURDWAN

Date: 23/12/2023

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 Purbasthalí College, Purbasthalí, Parulía, Block - Purbasthalí-II, Purba Bardhaman 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 'Green & Clean Campus Committee' team members of Purbasthali College 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. Enviornmental Sc. The University of Burdwan Burdwan, W.B.

Dr Sibaprasad Rudra Former Principal Vivekananda Mahavidyalaya Sripally

PurbaBardhaman

Vivekananda Mahavidyalaya
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 Purbasthali College, Purbasthali for 2022-'23, the Audit is performed on 23rd of December, 2023. Purbasthali College started on 2009 and came under the affiliation of the University of Burdwan. There are 7 UG Hons. and General Programmes are running. College is preparing for First Cycle of NAAC accreditation.

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the Institution (17th Dec 2019). 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.

3.0 Statement of Assurance

This audit has been conducted in accordance with the report submitted by the College Environmental Committee, constituted on 30th of April 2018. 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 as recorded are follows:

- > In general, all the departments, faculty and students are to some extent aware about the need for environmental protection at a general level.
- > It is observed that College has sent a proposal for installation of solar panel and the electricity generated to be distributed through power grid. There are four Solar street lamps in the college campus.
- > It is also observed they are following some practices such as sock pits, maintaining greenery with some plants of medicinal values, introducing plastic free zone, etc., are followed in the campus.
- > All biodegradable and non-biodegradable wastes are safely disposed with the help of local Panchayat.
- ➤ On detailed review, it was observed that the college has already taken some measurements to implement the Green Policy (since 17th of December 2019) with applicable standards. In addition, College is taking care of to improve their efficiency, fairness and consistency.
- > College one Rainwater harvesting tank which is used in gardening in the college campus as well as groundwater recharge purposes.
- > They have prepared some nests to attract different types of birds (mainly Pigeon) in the fruit garden.

5.0 Suggestions

- College should follow the composition of Environmental Audit Committee, where Principal will act as Chairman and inclusion of student members from SEM I, III & V.
- > College will maintain one Medicinal Garden properly.
- > Proper training for maintaining Biodiversity Register be followed.
- > Existing Composting Pit be managed properly.
- ➤ E-waste be disposed through proper/authorized License holder party; safe disposal methods should be adopted for other electrical wastes, printer cartridges etc., through proper disposal methods.
- > Formal MoU with Local Panchayat be maintained for long-term basis and periodical monitoring.
- > College may maintain 'Green Budget' for the said purposes.
- > Periodical maintenance of plants be followed.

GREEN AUDIT WORKING FORMAT

5.0 Audit Framework and detailed findings

The following audit framework is used for conducting Green Audit in 2022-2023. 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 different initiatives to
1	1 5	make aware among the stakeholders
		through different forms; College has
		conducted some activities for green
	*	environment through plantation
Maximize the	Reduce the absolute amount of waste	The College is following the method to
proportion of waste	that it produces from college staff	reduce the wastes.
that is recycled &	offices.	The state of the s
minimize the	The second secon	
quantity of non-		
recyclable refuse		
	Compost, or cause to be composted, all	College intends to prepare a
		composting pit for composting the all
	recycled cardboard produced in or	organic wastes, green wastes, etc.,
	collected from kitchens, gardens, offices	collected from gardens and canteen
	and rooms.	gardens and canteen.
	Recycle or safely dispose of White	Waste boxes of different colours are
		maintained for collection of
	appliances.	decomposable and non-decomposable
		waste and finally wastes are safely
		disposed by local Panchayat.
Maximize the	Make specific arrangements for events.	College is trying to dispose all the non-
proportion	such as cultural Events, internal and	degradable materials as much as
		possible, avoid use of plastic; and all the
	[] 경기 전경 10 H H H H H H H H H H H H H H H H H H	wastes are collected in proper way and
minimize the	likely to be produced, in order to both	safely disposed through Panchayat
quantity of non-	minimize the waste produced and	
recyclable refuse	maximize what is recycled/reused	
*		Yes, the College has taken some
	recycling among staff, students and	initiative to reuse the biodegradable
		waste and recycling through training,
	posters and incentives	posters and incentives.
		Yes, the College disposes all wastes,
	otherwise, in a scientific manner and	whether solid or otherwise, and ensures
	ensure that it is not released directly to	that it is not released directly to the
	the environment	environment.
Reduce energy	Support renewable and carbon-neutral	Yes, the College has proposed to install
	electricity options on any energy-	solar grid power and the electricity
especially of energy	purchasing consortium, with the aim of	generated to be contributed via nower
derived from	supplying all college properties with	grid.
	renewable and carbon-neutral sources.	*
	electricity that can be attributed to renewable and carbon-neutral sources.	

Belle

Control objective	Control(s)	Audit Observation
Green initiatives	Appreciate that it is preferable to	The College has no choice other
	purchase electricity from a company that	than WBSEDCL.
	invests in new sources of renewable and	The second secon
	carbon-neutral electricity	
	Look into the possibility of on-site micro-	College has installed a Green
	generation of renewable electricity.	Generator for uninterrupted power
		supply
	Give preference to the most energy	The College has furnished with
	efficient and environmentally sound	LED as much as practicable.
	appliances available, this includes only	•
	using energy-saving light bulbs	
Reduce energy	Provide energy efficient heating systems,	Considering the local climate
consumption,	with adjustable controls for individual	heating system is not necessary
especially of energy	heating appliances wherever possible, and	College follows paper-less
derived from	ensure that comprehensible instructions	communications using digital
fossil fuels	are available to staff and students on the	media; e-notice in 60% for
	use of heating controls	academic/ administrative purposes.
	F	
	Encourage staff, students and conference	Misuse of electricity is controlled
	guests to save energy through visible	by turning on' the appliances when
	reminders. Incentives and information to	not required.
	increase awareness. This particularly	
	concerns turning off electrical appliances	9
	when not in use in both communal and	
	residential rooms	
	Monitor and understand the importance of	The College is intended to follow
	different sources of college energy	the bests to put the main switch off
	consumption, and set appropriate and	when there is no need of
	measurable targets for a reduction in	electricity.
	certain areas of consumption and/or in the	
	overall consumption of energy.	
	Ensures that all electronic and electrical	It is practised.
	equipment such as computers, are	
	switched of when not in use, and is	
	generally configured in power saving	
	mode when such option is available	
	Laboratory space & status of equipment	There is no Science Department.
	either running on standby mode, reduce	
	the energy consumption on standby mode	
	or minimize the running of equipment's	
	on standby mode.	
	Purchase efficient and environmentally	College has a positive attitude
	sound appliances in order to fulfill the	about increasing greenery by
1	commitments in section 2, and consider	planting in front of the premises.
	replacing old stock with 'greener, more	environment () Epitember () Australia () () () () () () () () () (
	efficient alternatives.	1
Minimize the use of	Make available information about bicycle	This area is well-connected with
insustainable transport	and pedestrian routes, public transport	bus and train services, so all of the
	services and car share schemes to staff	members avail public transport.
	and students.	

Control objective	Control(s)	Audit Observation
	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,	possible.	of pipelines are done to control water wastage.
	water consumption	Practised as much as possible.
4	Encourage a decrease in water usage among staff, students and conference guests	
	Use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage	
	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	machinery for supplying the safe drinking water to all the
	usage. are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity	
	Install Water recycling mechanism, such as rainwater harvesting system	Rainwater harvesting system be improved.
	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	College.
5.0	Dispose the chemical waste generated from the laboratories in a scientific manner	



Control objective	Control(s)	Audit Observation
	Reduce the practice of burning plastic an	d No such huming
	other material that emits harmful gas of	n
	burning is prevented in the campus.	
	Establish a Garden in the campus	College maintains gree
	and the campus	
	Encourage the faculties and students to	environment allround.
	Encourage the faculties and students to plant trees in the garden.	NSS and other students are taking
Ensure the		part.
environmental	awaiciicii awaiciici	College is going to form an Ed
awareness workshop	Thomas as a part of the brootsm	club for monitoring this.
environmental	3	_
on nominental	C-1.	
	Conduct events such as plant trees to	Few programmes have undertake
	opreda chynolinichiai awareness among	in this regard.
	the students	
	Reduce the rate at which the College	College does not directly of
	to the depletion and	indirectly participate in depletio
	degradation of natural resources.	
		recourses
	Promote environmental awareness as a part of course work in various	Commute ED Has
	part of course work in various	Compulsory ENVS paper of 10
	various	marks in the University Syllabu
	projects, and community service	for all the students of all streams to
	r-sjoots, and community service	develop Environmental Awarenes
Ensure that the	Review architecture of animing	(80 written + 20 Project).
uildings conform to	Review architecture of existing buildings and reviews way, in consultation with experts, to reduce usage of consultation	In general, all class rooms are big
reen standards.		
	reduce usage of energy for	College has promoted for energy
	is a super ligage and l	lifting.
insure that the	reducing carbon emission	
insure that the	Establish a College Environmental	College has constituted the
invironmental Policy	Committee that will hold magneticity	C !! -
2 2	onactificity children and	and functioning all 20th c.
		71110
	Environmental Committee shall be the	Conducting recorded at
	source of advice and guidance to staff and	conducting regular meetings.
	students on how to implement this Policy	
	Require that every staff and student	G-11
	member recognizes their responsibility to	College is trying to create
	member recognizes their responsibility to a ensure that the commitments in the t	wareness programmes to motivate
	that the confinitioned in their	ne students.
	Environmental Policy are properly put	8 _
r.	Ensure that an audit is conducted annually	his Report is based on data of the
	action is taken on the basis of audit s	ession 2022-2023.
1	report, recommendation and findings	

Blele

6.0 Recommendations

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

Criteria	Recommendations
Publication of Audit Report	1. Resolutions of the "College Environmental Committee" along with
	audit report be published in the College website.
	2. The College should go for ISO 9001:2015 Certification.
Maximize the proportion of waste that is	1. Advanced Composting system may be developed for bio-wastes.
recycled & minimize the quantity of	2. College may go for partnership with Local Panchayat in monitoring
non-recyclable refuse	of disposal of solid wastes through providing outreach program.
Reduce energy consumption, especially	1. Use eco-friendly lighting fully in and around the campus; outdoor
of energy derived from fossil fuels	lighting be managed and followed in the order of eco-friendly system.
14	2. Number of Energy and flow meters to be installed for monitoring of
	energy and water consumption building wise/department wise.
Maintenance of Campus and	1. PUC (Pollution under control) certificate for all the vehicles
biodiversity	entering the campus to be made mandatory and to be checked by
,	security.
	2. Students be aware on importance of Medicinal Gardens and PBR
	for different locations.
	3. One Butterfly Garden may be started to maintain biodiversity
	within the campus.
	4. Choice-plantation, fruit-plantation may be encouraged mostly
	considering the suitability of the region.
Proper maintenance of wastes	1. Total wastes including solid, liquid, etc., wastes be managed
	carefully.
Project-based learning on Environment	1. More number of environmental awareness campaigning be initiated
related subjects	for save environment programs.
Use of Rainwater harvesting system	1. It is recommended for fruitful use of Rainwater harvesting system.

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 Green & Clean Campus Committee and also members of the Committee.

Physical Inspection

Physical inspection was made on 23rd of December 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: 23/12/2023

Place: Purbasthali College, Parulia

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

Burd Professor & Head Professor & Head Peptt. Enviornmental Sc. The University of Burdwan Burdwan, W.B. Signed by
College Principal with Seal

Principal Purbasthali College Parulia,Purba Bardhaman.

Dr Sibaprasad Rudra
Former Principal
Vivekananda Mahavidyalaya
Sripally

PurbaBardhaman

Principal (for mer)
Vivekananda Mahavidyalaya
BURDWAN