The University of Burdwan

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



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

No. IC/Audit Committee/S-213/1406

Date: 19.01.2024

To

The Principal, Tehatta Sadananda Mahavidyalaya, P.O. Tehatta, Dist. Purba Bardhaman.

Sir/Madam,

With reference to your letter vide No.TSM/B.U/Jan24/01 dated 19.01.2024, I am directed to inform you that an Audit Committee duly constituted by the Hon'ble Vice-Chancellor, B.U. consisting of the following members will pay a visit to your college within a short period for Academic/Administrative/Green Audit purpose:

Members of the Audit Committee

- Prof. Gouri Sankar Bandyopadhyay, Principal, Syamsundar College, P.O. Shyamsundar, Dist. Purba Bardhaman & Member of the Court, The University of Burdwan.
- Prof. Tanmoy Dasgupta, Dept. of Business Administration, The University of Burdwan.
- Prof. Apurba Ratan Ghosh, Head, Dept. of Environmental Science, The University of Burdwan.

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

Yours faithfully,

(S.K. Chowdhury) Registrar

&

Date: 19.01.2024

Inspector of Colleges(Addl. Charge)
The University of Burdwan

No. IC/Audit Committee/S-213/1406/1(3) Copy forwarded for information to :-

- Prof. Gouri Sankar Bandyopadhyay, Principal, Syamsundar College, P.O. Shyamsundar, Dist. Purba Bardhaman & Member of the Court, The University of Burdwan.
- Prof. Tanmoy Dasgupta, Dept. of Business Administration, The University of Burdwan.
- Prof. Apurba Ratan Ghosh, Head, Dept. of Environmental Science, The University of Burdwan.

(S.K. Chowdhury) Registrar

&

Inspector of Colleges(Addl. Charge)
The University of Burdwan

TEHATTA SADANANDAMAHAVIDYALAYA TEHATTA, PURBA BARDHAMAN

ESTD. 2013

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

Prepared by
The Audit Committee
The University of Burdwan

Date: 29/04/2024

AUDIT REPORT ON ENVIRONMENTAL AUDIT/ GREEN AUDIT

CERTIFICATE

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

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 Gouri Sankar Bandyopadhyay

Principal Syamsundar College

Syamsundar College Shyamsundar

Dr. Gouri Sankar Bandyopadhyay

Principal
Syamsundar College
P.O.-Shyamsundar, Dist-Purba Bardhaman
W.B. 713424

Date: 29/04/2024

To
The Principal
Tehatta Sadananda Mahavidyalaya
Tehatta
Purba Bardhaman
West Bengal

Website: www.collegetsm.in

E-mail: tehatta.sadananda.mahavidyalay@gmail.com

Subject: Environmental Audit Report Submission from Experts

Sir

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

We request you to please acknowledge and oblige.

Yours sincerely,

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 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

Report of Environmental Audit/Green Audit

1.0 Introduction

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

2.0 History of College

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

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

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

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

3. Executive Summary

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

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

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

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

4. Observations

a. General

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

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

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

b. Suggestions

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

5. Statement of Assurance

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

GREEN AUDIT WORKING FORMAT

6. Audit Framework and detailed findings

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

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Control objectives	Control(s)	Audit Observations
	Promote reuse of items and waste	The College has I' it is
	recycling among staff, students and	reuse of itames and
	conference guests through training, posters	
	and incentives	
paragram contemporary possing plant contemporary	Dispose all waste, whether solid or	guests through some incentives.
	otherwise, in a scientific manner and	
	ensure that it is not released directly to the	
	environment	
		ensures that it is not released directly
Reduce energy	Support renewable and carbon-neutral	to the environment.
consumption,	electricity ontions on any anarray	paper-les
especially of energy	purchasing consortium, with the aim of	. Communications unough using digita
derived from fossil	supplying all college properties with	
fuels	electricity that are 1	generate e-notice for academic
	renewable and carbon-neutral sources.	administrative purposes.
	Appreciate that it is preferable to purchase	The state of the s
	electricity from a company that	
	electricity from a company that invests in new sources of renewable and carbon-	sources of renewable sources or
	neutral electricity	energy and carbon-neutral electricity
	Look into the maniful live of	like solar street panels.
	Look into the possibility of on-site micro-	College has submitted a proposal for
	generation of renewable electricity.	installation of SOLAR PANNELS.
	Give preference to the most energy	
		The College is using LED as much as
	annliances available this include	possible.
	appliances available, this includes only	
Effective energy	using energy-saving light bulbs	
consumption and	Encourage staff, students and conference	College has a mechanism to reduce
nanagement practices	guests to save energy through visible	the misuse of electricity by turning off
gement practices	reminders, incentives and information to	the appliances when not required
	increase awareness. This particularly	through MCP.
	concerns turning off electrical appliances	All the stakeholders are to be aware
	when not in use in both communal and	and doing their best and practices to
	residential rooms	save electricity.
	Ensure that all electronic and electrical	Students and all the members are used
	equipment's, such as computers, are	to follow this practice.
	Switched off when not in use and is	F. W. I.O.
	generally configured in power saving	
	mode when such option is available	
	Ensure that the equipment's running on	Maintaining energy saving
	standby mode, reduce the energy	manha ' C
	consumption on standby mode or	
	minimize the running of equipment's on	instruments; some of the equipment's are running on standby mode.
	standby mode	and ranning on standay mode.

Control objectives	Control(s)	A 11: 0:
	Purchase efficient and environmental sound appliances and consider replacin old stock with 'greener', more efficier alternatives.	environmental-friendly appliances a much as possible and taking initiative to replace the tube lights with
Minimize the use of unsustainable transport	and pedestrian routes, public transport services and car share schemes to staff and students. Reduce the proportion of travel on the University/Institute business carried out in	The College isconnected throughbut services; usually, most of them availed bus services. College does not have any common
	private transport and eliminate unnecessary and inefficient use of the University/Institute vehicles Promote car sharing / car pool among the students and faculty members	College has one cycle stand fo students as well as staff members.
Minimize consumption of water	Repair sources of water leakage, such as dripping taps and showers as quickly as possible. Install appliances which reduce water	and faculty members.
	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	All the stakeholders of the College are encouraged in judicious use of water. College is taking some steps to aware about use of hygienic water, proper storage of water. Sensor-based system be introduced to minimize the loss of water during
	electricity during water filtration process, if used, such as RO filtration process and ensure that the equipment's used for such usage, are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity	Inside the Campus building, there are existing 1 RO and 1 Water Purifier (supplied by government) and are installed in the strategic location for the students and other members.
	January Stelli	Rainwater is directly drained off. Rainwater conservation be developed for other uses.

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. College may maintain 'Green Budget' for the said purposes.
	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 fertilizersfor 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. Drainage of liquid wastes from wash rooms, and other similar sources be managed properly.
	Reduce the practice of burning plastic and other materials that emit the harmful gas on burning is prevented in the campus.	No such burning.
Maintenance of green campus	Ensure the green environment	College is positive about increasing greenery. Tree plantation programmes are followed in different occasions on year-wise.
	Establish a Garden in the campus	Students should be trained to handle People Biodiversity Register.
	Encourage the faculties and students to plant trees in the garden	College conducts tree plantation programmes through students and staff members on year-wise. Choice-plantation and fruit-plantations be followed on regular basis considering the suitability of the region.
	Reviews periodically the list of trees planted in the garden periodically	Periodical maintenance of gardens/plants be followed through student members.
Ensure that environmental awareness is created	Conduct environmental awareness workshops as a part of the program.	College celebrates World Environment Day. Women's Day; etc.
	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	College conducts environmental awareness programmes to ensure environmental sustainability.
	Reduce the rate at which the University/Institute contributes to the depletion and degradation of natural resources	College is not directly or indirectly responsible in depletion and/or degradation of natural resources.

Control objectives x	Control(s)	Audit Observations
10.000	Promote environmental awareness as a part	Compulsory ENVS paper of no
	of course work in various curricular areas,	University guidelines for all the
	independent research projects, and	5 8 THE COLUMN THE
	community service	to have anawareness on
		Environmental
Ensure that the	Review architecture of existing buildings	Presently there is no proposal of
buildings conform to	and reviews ways, in consultation with	construction
green standards	experts, to reduce usage of energy for such	
	buildings, offering greatest efficiency for	
	energy and water usage, and reducing	
n .	carbon emission	
Ensure that the	Establish the University/Institute	College has a College Environmental
Environmental Policy	Environmental Committee that will hold	Committee and conducted so far three
is enacted, enforced	responsibility for the enactment.	meetings during the session 202223.
and reviewed	enforcement and review of the	2022- 23.
	Environmental Policy. The Environmental	
	Committee shall be the source of advice and	
	guidance to staff and students on how to	
	implement this Policy	
	Ensure that on the Nature	College Environmental Committee
	Club/Environmental Committee there will	has constituted one EcoClub for better
	be appropriate representatives of the	functioning.
	relevant university departments and	is a second of the second of t
	authorities - such as catering, gardening,	
	maintenance, cleaning and finance	
Ensure that the	Ensure that on the Environmental	College is required to reframe the
Environmental Policy	Committee there will be the Green Officer	Committee, one Green Officer may be
is enacted, enforced	from an external agency who is engaged in	included in this Committee for
and reviewed	the profession of providing guidance on	maintaining budget.
	environmental impact	mamaming budget.
	Ensure that the Environmental Committee	College campus is declared as 'Plastic
	will review the Environmental Policy on an	Free Zone'.
	annual basis, and will monitor progress and	The Zone .
	set measurable targets wherever possible	
	Ensure that the Environmental Policy is	Beautification and cleanlinessbe
	enforced regardless of whether its	e e e e e e e e e e e e e e e e e e e
	The state of the s	maintainedinvolving students;the Green Policy of the College be
		reframed.
	Require that every staff and student member	N/ I
	recognizes their responsibility to ensure that	EnvironmentalCommittee are actively
	the seminate of the seminate o	0#000 - I
	Dollar and	engaged in maintaining green practices.
	Page 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Second 'Green Audit' is conducted on
		29 th of April 2024 and is based on the
		report of year 2022-'23.

7. Recommendations

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

Criteria	Tollowing recommendations were made to the management.
	Recommendations
Publication of Audit Report	Resolutions of the "College Environmental Committee" along with aud report be published in the College website. College Environmental Committee be framed as per guidelines.
Maximize the proportion of	1. The College should go for ISO 9001:2015 Certification.
waste that is recycled &	8 5 5 10 10 10 700 1.201) (FIIII (AII O)
minimize the quantity of non-recyclable refuse	of the state of th
	disposal of solid wastes through sharing some outreach programs also
	4. Vermicomposting should be monitored considering its vegetable wastes, food
	wastes from canteens.
D	5. E-wastes be managed properly through License holder
Reduce energy	1. Use energy efficient lighting/solar light fully in and around it
consumption, especially of	beging the campus
energy derived from fossil	2. Installation of number of control switch, MCP for monitoring of energy and
fuels,	sensor-based system for water consumption building wise/department wise be
	operated through the involvement of student members.
	3. Ecological street may be developed in and around the campus;
	Pedestrian access be marked.
Maintenance of Campus and	1. Students be aware importance of Medicinal Gardens and PBRfor different
biodiversity	locations.
	2. Proper training, workshop on maintenance of PBR for local villages and
	different locations as an outreach program be initiated.
	3. Choice-plantation, fruit-plantation, artificial nesting, etc., be followed to
	maintain attract birds and other animals within the campus.
*	4. Proposal of Butterfly Garden may be initiated.
Proper cleaning of water	1. Proper cleaning of the water tanks for fruitful uses be followed; management
storage Tanks	of dead leaves, litters of trees inside the campus be taken care off on regular
	basis.
	2. Sensor-based system be maintained for checking of wastage of tank water.
Project-based learning on	1. Creation of opportunity to start with technical, skill-oriented and hands on
subjects	training programmes for environmental monitoring.
	? Recognition/Awards on and a
	persons/organisations.
8. Objectives and Scope	

8. Objectives and Scope

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

9. Methodology

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

- 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 Committee and also members of the Committee.

Physical Inspection

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

9.0 Declaration

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

Date: 29/04/2024

Place: Tehatta Sadananda Mahavidyalaya

Tehatta, Purbra Bardhaman

Dr Tanmoy Dasgupt

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

Professor & Head

Deptt. of Environmental Science

The University of Burdwan

Burdwan

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

29.04.24

Signed by

College Principal with Seal

Tehatta Sadananda Mahavidyalaya Tehatta, Purba Bardhaman

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