Date: 11/04/2024

To The Principal Deshabandhu Mahavidyalaya Chittaranjan Paschim Bardhaman West Bengal

Website: https://dbmcrj.ac.in/principal@dbmcrj.ac.in

E-mail: dbprincipal@rediffmail.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.

Asamaja Charloraj

Professor

Department of Animal Science

Kazi Nazrul University

Asansol

Paschim Bardhaman

Prof. Asamanja Chattoraj

Department of Animal Science KAZI NAZRUL UNIVERSITY (KNU)

Asansol West Bengal-713 340, INDIA

Dr Amitava Basu Principal B B College

Asansol

Paschim Bardhaman

DR. AMITAVA BASU

Principal, B. B. College Ushagram, Asansol, P. Bardhaman West Bengal - 713303 Yours sincerely,

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

Burdwan Purba Bardhaman

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

DESHABANDHU MAHAVIDYALAYA CHITTARANJAN, PASCHIM BARDHAMAN

ESTD. 1973

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

Prepared by The Audit Committee

Date: 11/04/2024

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 Deshabandhu Mahavidyalaya, Chittaranjan, Paschim 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 Deshabandhu Mahavidyalaya, Chittaranjan 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 Hon'ble Vice Kazi Nazrul University, Asansol, Paschim Bardhaman 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 Environmental Compliance Committee team members during preparing their Report of the concerned year 2022 - '23

Asanja Charly

Dr Asamanja Chattoraj

Professor

Department of Animal Science

Kazi Nazrul University

Asansol

Paschim Bardhaman

Dr Amitava Basu Principal B B College Asansol Paschim Bardhaman

DR. AMITAVA BASU

Principal, B. B. College Ushagram. Asansol, P. Bardhaman West Bengal - 713303 Dr Apurba Ratan Ghosh
Professor & Head
Deptt. of Environmental Science
The University of Burdwan
Burdwan
Purba Bardhaman

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

Prof. Asamanja Chattoraj Department of Animal Science KAZI NAZRUL UNIVERSITY (KNU) Asansol West Bengal-713 340, INDIA

Schedule for Environmental/Green Audit

(April 11, 2024)

Time	Schedule		Venue	
11:30 AM	Introductory Meeting with the Principal		Office Chamber of the Principal	
12:00 NOON	Meeting with the Coordinator & Members of College Environmental Committee		IQAC	
12:30 PM – 2.30 PM	Presentation of Coordin & Physical visit of Campu			
02:45 PM		Lunch		
03:15 PM – 05.30 PM	Physical visit of Campu	S		
05:45 PM		Геа		
06:00 PM	Meeting with faculty and "Preparedness on NAAC	d administr	rative members to discuss 'Preparation of Green Policy''	

Sparja Clarky

Dr Asamanja Chattoraj
Professor
Department of Animal Science
Kazi Nazrul University
Asansol
Paschim Bardhaman

Prof. Asamanja Chattoraj
Department of Animal Science
KAZI NAZRUL UNIVERSITY (KNU)
Asansol West Bengal-713 340, INDIA

Dr Amitava Basu Principal B B College Asansol Paschim Bardhaman

DR. AMITAVA BASU Principal, B. B. College Ushagram. Asansol, P. Bardhaman West Bengal - 713303 Dr Apurba Ratan Ghosh
Professor & Head
Deptt. of Environmental Science
The University of Burdwan
Burdwan
Purba Bardhaman

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

- 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 11th 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: 11/04/2024

Place: Deshabandhu Mahavidyalaya Chittaranjan, Paschim Bardhaman

> Signed by College Principal with Seal

Abanja Charley
Dr. Asamania Chattor

Dr. Asamanja Chattoraj Professor Department of Animal Science Kazi Nazrul University Asansol

Paschim Bardhaman

Prof. Asamanja Chattoraj Department of Animal Science KAZI NAZRUL UNIVERSITY (KNU) Asansol West Bengal-713 340, INDIA Dr. Amitava Basu Principal B B College Asansol Paschim Bardhaman

DR. AMITAVA BASU Principal, B. B. College Ushagram, Asansol, P. Bardhaman West Bengal - 713303 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.

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

Deshabandhu Chittaranjan Mahavidyalaya, Chittaranjan is the government-aided degree college in Chittaranjan under the district of Paschim Bardhaman.

College was established on 3rd of September 1973. Initially, it is under the affiliation of University of Burdwan, presently is under the affiliation of Kazi Nazrul University, Paschim Bardhaman, now it offers Bachelor of Arts (Hons.) in 8 subjects and Science Courses in and Self-financing Courses. College endorses a sprawling and eco-friendly campus occupying 5.527 ha accommodating three buildings. It has total present teaching faculty strength is 52. The College was accredited by NAAC in 2007 with Grade B and subsequently during Second Cycle scored B⁺ during 2016. Now, the 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. Through its distinctiveness as an academic institution over a long period of time, the authorities of the College believes in continuous improvement. Now, is preparing for its Third Cycle of NAAC.

In accordance with the "Format of Green Audit: Questionnaire" of Deshabandhu Chittaranjan Mahavidyalaya, Chittaranjan the Audit is performed on 11th of April 2024. The purpose of the audit was to ensure that the green practices followed in the campus are in accordance with the Green Policy & Management practices adopted by the Institution. 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 Observations

a. General

College has a total campus area of 5.527 ha, open space is of 49896.0 sq.m. and green area of 1132.488 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 Club on 2021.
- 2. Some of the best practices such as maintaining tree plantation, introducing plastic free zone, celebration of World Environment Day, Ozone Day, Earth Day, Blood Donation Camp, etc., are followed in the campus.
- 3. College organises Tree Plantation Programs on regular basis.
- 4. College has two dumping pit. Disposal of all degradable and non-degradable solid wastes is followed through Chittaranjan Locomotive Works (CLW).
- 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 harvesting system is functioning well; it maintaining since long 1973 and directly discharged for groundwater recharge.
- 8. College has prepared the proposal of installation of Solar Panel.
- 9. College has taken initiative for preparation of composting pit/vermicomposting pit.
- 10. NSS unit is actively engaged in green maintenance inside and outside the College campus.
- 11. College is following Noise Monitoring System on regular basis, keeping records as well.
- 12. Drinking water for the College is supplied through CLW and monitoring of drinking water quality standards is maintained them only.
- 13. College has been awarded with ISO 14001:2015 Certification.

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 Garden be prepared properly.
- 5. Students should be trained to handle the PBR through workshop *etc.*, mapping of plants be done accordingly.
- 6. Installation of 20 KW Solar Panel is in process. Solar street lamp may be installed in and around the campus.
- 7. Existing composting be managed properly.

3.0 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

5.0 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.

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. Make full use of all recycling facilities	The College has used some control measures to reduce the absolute amount of waste that it produces from the departments, staff offices, inside Campus, etc. Segregation method to be followed for disposing. College is disposing its all wastes		
	provided by City Municipality and private suppliers, including glass, cans, white, coloured and brown paper, plastic bottles, batteries, print cartridges, cardboard and furniture.	through CLW.		
	Compost, or cause to be composted, all organic waste, green waste and unrecycled cardboard produced in or collected from kitchens, gardens, offices and rooms.	The College uses different bins for disposal of different types of wastes. The fallen dead leaves from the garden be managed properly in the composting/cistern pit.		
	Recycle or safely dispose of white goods, computers and electrical appliances.	Safe disposal methods should be adopted for electrical wastes, printer cartridges, etc., through proper disposal methods.		
	Use reusable resources and containers and avoid unnecessary packaging where possible	College is following some steps for management of vegetable, food wastes produced from canteen.		
	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, <i>etc.</i> , be disposed through CLW.		

Control objectives	Control(s)	Audit Observations		
	Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives	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 follows environment friendly disposal management 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, generate e-notice for academic/administrative purposes.		
	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbonneutral electricity	College is required to install new sources of renewable sources of energy and carbon-neutral electricity like solar street panels.		
	Look into the possibility of on-site microgeneration of renewable electricity.	College has submitted a proposal for installation of 20 KW SOLAR PANNELS.		
	Give preference to the most energy efficient and environmentally sound appliances available, this includes only using energy-saving light bulbs	The College is using full LED light.		
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	College has a mechanism to reduce the misuse of electricity by turning off the appliances when not required through MCP. All the stakeholders are to be aware and doing their best and practices to save electricity.		
	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 as much as possible and taking initiative replacing all the tube lights with LEDs, <i>etc.</i> , 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 connected through rail, bus services; usually, most of them avail rail and 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. College has one cycle stands for students as well as staff members.		
	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. Install appliances which reduce water	Regular checking and maintenance of pipelines are done to control the water wastage through dedicated personnel. 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 judicial 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. Advanced Sensor-based system be introduced 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 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 six Aqua guards, and four water cooler & purifier installed in the strategic location for the students and other members.		
	Install Water recycling mechanism, such as rain water harvesting system	Rainwater harvesting system is functioning since 2016 in the new building; College has one groundwater recharge system since 1973.		

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 fertilizers 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. Drainage of liquid wastes from wash rooms, labs and other similar sources are 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, Earth Day, Energy Conservation Day, World Ozone 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		
	Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service	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 framed College Environmental Committee and conducted so far three meetings.		
	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 has constituted one Eco Club for better functioning.		
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 is required to reframe the Committee, one Green Officer may be included in this Committee for maintaining budget.		
	Ensure that the Environmental Committee will review the Environmental Policy on an annual basis, and will monitor progress and set measurable targets wherever possible	College campus is declared as 'Plastic Free Zone'.		
	Ensure that the Environmental Policy is enforced regardless of whether its requirements exceed the mandate of the law	Beautification and cleanliness be maintained involving students; the Green Policy of the College be formulated.		
	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 11 th of April 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	1. Composting system be developed for degradable/bio-wastes in a proper way.			
waste that is recycled &	2. College may go for partnership with Local Body in monitoring the disposal of			
minimize the quantity of non-	solid wastes through sharing some outreach programs also.			
recyclable refuse	4. Vermicomposting should be prepared considering its vegetable wastes, food			
	wastes from canteens and huge litters.			
	5. E-wastes be managed properly through License holder.			
Reduce energy consumption,	1. Use energy efficient lighting/solar light fully in and around the campus; Ecological			
especially of energy derived	street may be developed in and around the campus.			
from fossil fuels,	2. The control switch, MCP for monitoring of energy and sensor-based system for			
	water consumption building wise/department wise be maintained 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 1. PUC (Pollution under control) certificate for all the vehicles entering the campus			
biodiversity	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 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 of			
storage Tanks	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-training			
Environment related subjects	programmes for environmental monitoring.			
	2. Recognition/Awards on green & clean campus from authorised			
	persons/organisations.			

7.0 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.

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.

DBM 1973-2023

DESHABANDHU MAHAVIDYALAYA, CHITTARANJAN

NAAC Accredited B + College
(Affiliated to Kazi Nazrul University)
Recognised Under Section 2(f) & 12(B) of UGC
P.O. – Chittaranjan, District – Paschim Bardhaman, West Bengal,
India, PIN – 713 331



27.3.2024

To The Registrar Kazi Nazrul University

Subject: Request to appoint a Team of Green Auditors for Conducting Green Audit/Environmental Audit at Deshabandhu Mahavidyalaya, Chittaranjan

Dear Sir,

As we are going for the NAAC assessment shortly, it has become imperative to conduct a Green Audit or Environmental Audit as per the stipulation of the NAAC.

In light of the above, I would request you to appoint a Team of Green Auditors to conduct a Green Audit/Environmental Audit at Deshabandhu Mahavidyalaya, Chittaranjan as soon as possible.

Thanking you

Sincerely

(Tridib Santapa Kundu) Principal Principal

Deshabandhu Mahavidyalaya Chittaranjan

Copy to

Inspector of Colleges, Kazi Nazrul University, Asansol

Phone: 0341-2525449 Website: www.dbmcrj.ac.in Mobile No: +919434331453 (Principal) Email: principal@dbmcrj.ac.in



KAZI NAZRUL UNIVERSITY

Office of the Inspector of Colleges

Asansol, Paschim Bardhaman, West Bengal – 713340 E-mail: ic@knu.ac.in | office.ic@knu.ac.in | website: www.knu.ac.in

Ref.No. IC/KNU/AUDIT/104/30/24

Date: 02/04/2024

To The Principal Deshabandhu Mahavidyalaya Chittaranjan

Sub: Visit of an Audit Team regarding Green Audit purpose

Dear Sir.

With reference to your letter dated 02/04/2024, I am directed by the Hon'ble Vice Chancellor to inform you that an Audit Team duly constituted by the Hon'ble Vice Chancellor, Kazi Nazrtıl University, consisting of the following members will pay a visit to your college regarding Green Audit purpose within a short period of time:

Members of the Audit Team

	Members of the Audit Team				
SI No.	Name & Designation	Contact No.	email Id		
1	Prof. Apurba Ratan Ghosh	9434003445	apurbaghosh2010@gmail.com		
	Head, Dept. of Environmental	6297963405	arghosh@envsc.buruniv.ac.in		
	Science				
	The University of Burdwan				
2	Prof. Asamanja Chattoraj	9436280230	asamanja.chattoraj@knu.ac.in		
	Dept. of Animal Science	a sometimes			
	Kazi Nazrul University				
3	Prof. Amitava Basu, Principal	8617098473	naac.hec@gmail.com		
	Banwarilal Bhalotia College				
	Asansol		v v		

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

Thanking you,

With regards

Dr. Jyotirmoy Ghosh Inspector of Colleges

Kazi Nazrul University, Asansol

Ref. No. IC/KNU/AUDIT/104/30/24/1(3)

Copy forwarded for information to:

1. Prof. Apurba Ratan Ghosh, Head, Dept. of Environmental Science, The University of Burdwan

2. Prof. Asamanja Chattoraj, Dept. of Animal Science, Kazi Nazrul University.

3. Prof. Amitava Basu, Principal, Banwarilal Bhalotia College, Asansol

Dr. Jyotirmoy Ghosh Inspector of Colleges

Date: 02/04/2024

Inspector of Colleges, Kazi Nazrul University Asansol - 713340 (W. B.)

ENVIRONMENTAL/GREEN AUDIT REPORT OF DESHABANDHU MAHAVIDYALAYA





2022-2023

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INTRODUCTION

Green Audit or Environmental audit is generally used to evaluate quality of various aspects of environment or in other words, it evaluates over all environmental conditions of an organization/institute/company etc within a geographic territory. It is similar to financial audit/asset audit/academic audit because all are emphasizing on inspection, examination, evaluation and preparation of report in the subject of the audit and narrating the findings in the balance sheet. The job of auditing helps to identify the gaps relating to sustainable environmental management system in so far as green audit or environmental audit is concerned. The responsibility of green /environment audit is not ending in narrating the findings but also involves in narrating the corrective measures for practicing to reach at the goal of excellence in sustainable environmental management.

Environmental audit is defined by the International chamber of Commerce (ICC, 1989) as 'A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of helping to safeguard the environment by

- 1. Facilitating management and control of environmental practices; and
- 2. Assessing compliance with company policies, which include meeting regulatory requirements.'

The basic aim of environmental/green audit is to provide the status of environmental condition to enable improvement in the quality of environment within the organization or institution to continuously and by doing that it shall safeguard the environment and reduces the threat on human health besides organism as a whole. Green audit/Environmental audit is therefore a powerful tool for management of environment within the organization.

It is an imperative for an institute of higher education to take care of environment and Green audit committee as per requirement and stipulation of NAAC, the college authority has formed a committee to complete the job of environment and Green audit.

OBJECTIVES OF GREEN AUDIT FOR AN INSTITUTE:

- i. Verifying compliance with available methods or techniques to maintain the standard of environmental quality in and around institution
- ii. Measuring environmental impact, particularly air, water, noise, waste on health and mind on the local people.
- iii. Build awareness about the optimum use of fossil fuel and conservation of energy resources
- iv. Formulating Environmental Policy to upgrade the quality of overall environment and increase environmental awareness among the students and staffs of the institution.
- v. Spreading knowledge, value, ethics and awareness of sustainable environmental management in society.

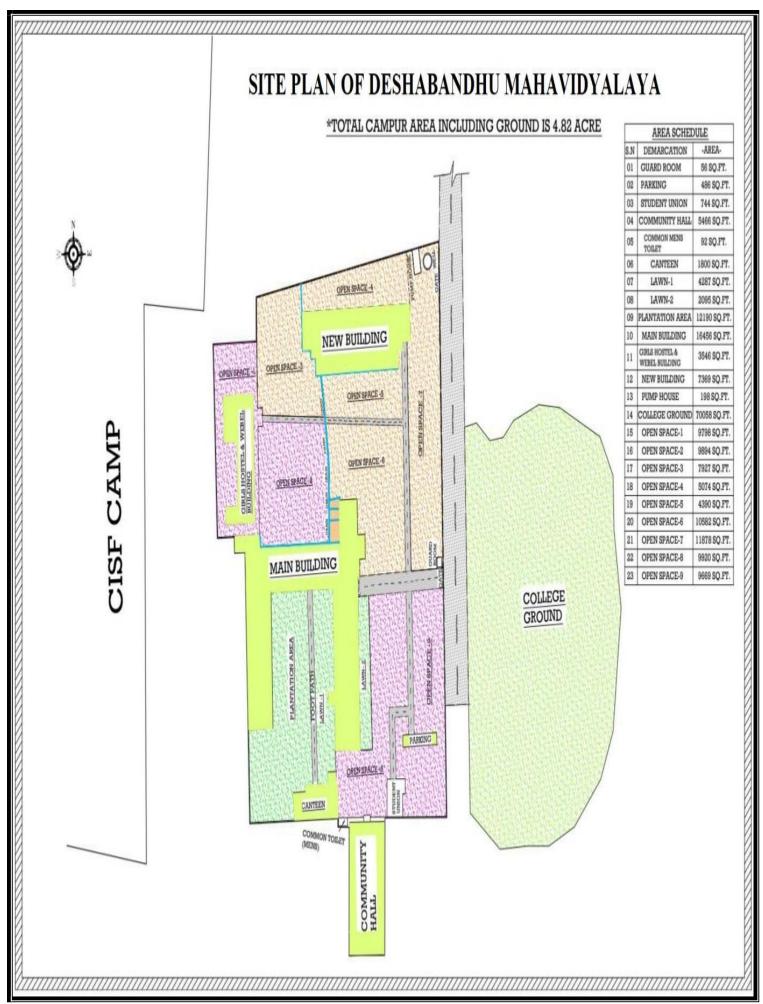
ABOUT THE COLLEGE:

Deshabandhu Mahavidyalaya, Chittaranjan is a Government aided general degree college in Paschim Bardhaman district of West Bengal. Deshabandhu Mahavidyalaya was established in 1973, initially it was affiliated by the University of Burdwan and presently (from 2015-16 session) the college is affiliated by Kazi Nazrul University, Asansol. The institution is recognized under section 2(f) and 12(B) of the UGC Act and first NAAC accreditation was done in 2007. The college is located in railway protected area with lush green pollution free environment. The vision of the college is to extending value education among students and main objective is to spread higher education in the remote localities. The college offers honours and general courses in science, humanities, commerce and also professional courses. At present, Deshabandhu Mahavidyalaya has 26 full time faculty members, 22 SACT (3 SACT-I and 19 SACT-II, State Aided College Teachers) teachers and 6 non-teaching staffs.

HISTORY BEHIND THE ESTABLISHMENT OF THE COLLEGE:

There was no degree college or any other higher educational institute in the large surroundings of Chittaranjan Locomotive Works (CLW) and Rupnarayanpur Hindustan Cables Limited (HCL) before the establishment of this college, Deshabandhu Mahavidyalaya in 1973. The employees of CLW and HCL placed their demands to their respective authorities for the estab-

lishment of a degree college in the locality for the higher education of their wards. A preparatory committee was formed and Mr. J.K. Kairal, the then P.R.E.O of CLW was the secretary. After discussion of committee members with the inspector of colleges of Burdwan University, it had been revealed that huge money was required as security deposit in college fund so that the college may run smoothly without taking any financial support from Government of West Bengal. College authority would be able to bear all the liabilities including salary of teaching and non-teaching staff for at least three years. After fulfilling all the criteria, they approached to the Burdwan University for affiliation. At first, temporary affiliation was given in science and humanities such as Physics, Chemistry, Mathematics, English, Bengali, Sanskrit, Hindi, Political Science, Economics, History, and Philosophy as pass combination subjects w.e.f the academic Mr. J. Bhattacharyya an experienced teacher became the first principal of session 1973-74. the college. Mathematics was the first honours course which was introduced from the academic session 1983-84 in the tenure of Prof. H. Gandhi. From the next session i.e. 1984-85 honours courses in Political Science and Economics were introduced. With the good effort of Dr. B.C Roy (24.6.87 to 30.09.2005) the then Principal, Deshabandhu Mahavidyalaya, honours courses in English, History, Bengali, Philosophy and pass courses in Commerce, and Geography were introduced. Later in the tenure of Prof. A. Dasgupta and Dr. Ashis Kumar Dey honours courses in Accountancy and Geography, pass courses in Zoology, Botany and Education and vocational course 'On advertising, Sales Promotion and Sales Management were introduced. Apart from that profession courses such as BBA (H), BCA (H), Computer Science etc. were started.



GENERAL INFORMATION ABOUT DESHABANDHU MAHAVIDYALAYA

1.4.1	Year of Establishment of college:	1973	
1.4.2	Total area under college	5.5725 hectares or	
		55725 square meter	
1.4.3	Total campus area	5.5725 hectares or 55725	
		square meter	
1.4.4	Total built-up area	4696.65 sq. mt	
1.4.5	Total open space area	49896 sq. mt	
1.4.6	Total green area	1132.488 Sq.mt	
1.4.7	Total AC covered area	182.994 sq.mt	
1.4.8	Whether the college is implementing the Green Policy for	Yes	
	the first time		
1.4.9	Whether green audit is followed annually, if so, please	Yes	
	produce the year-wise recommendations of the auditor		
	along with report		
1.4.10	Whether college has constituted the "College Environmen-	Yes	
	tal Committee''		

NAME OF THE COMMITTEE MEMBERS

DESHABANDHU MAHAVIDYALAYA

COLLEGE ENVIRONMENTAL COMMITTEE

- Dr Tridib Santapa Kundu (Principal)
- Dr Apurbo Kumar Roy (Co-ordinator, IQAC)
- Dr Mukul Kamle (Convener Green Audit /Environment Audit Committee and Eco-club)
- Prof Mousumi Kundu (Member)
- Prof Siba Prasad Mondal (Member)
- Prof Swarup Akhuli (Member)
- Mousumi Chakraborty (Students' Representative)
- Sharmila Gorai (Students' Representative)



DESHABANDHU MAHAVIDYALAYA, CHITTARANJAN

NAAC Accredited B + College

(Affiliated to KaziNazrul University)

Recognised Under Section 2(f) & 12(B) of UGC

P.O. – Chittaranjan, District – Paschim Bardhaman, West Bengal,

India, PIN – 713 331

COLLEGE ENVIRONMENTAL COMMITTEE

(2022-2023)

- Dr TridibSantapaKundu (Principal)
- Dr Apurbo Kumar Roy (Co-ordinator, IQAC)
- Dr MukulKamle (Convener Green Audit /Environment Audit Committee and Eco-club)
- Dr Mousumi Kundu (Member)
- Prof Siba Prasad Mondal (Member)
- Prof. Swarup Akhuli (Member)
- (Students' Representative): Mousumi Chakraborty
- (Students' Representative): Sharmila Gorai

CHITTARANJA

Deshabandhu Mahavidyalaya Chittaranjan

Number of meetings conducted so far: 03

RESOLUTION OF THE MEETINGS:

Meeting No. 1

Meeting Date: 18/06/2022

Time: 1.30 p.m.

Place: IQAC Room

The meeting started with Dr. Tridib Santapa Kundu, Principal of the college in the chair to

discuss the following agendas:

Meeting Agenda:

• ISO of the College

• Fire-Safety mechanism

• Water purifier maintenance

• Maintain Cleanliness in the campus

The proceedings of the meeting held on January 5 2022 of Green Audit Committee read out by

the convener for confirming the resolutions adapted in the meeting held on January 5 2022

Minutes: Dr Apurbo Kumar Roy, Co-ordinator IQAC said that Deshabandhu Mahavidyalaya is

an installation of Chittaranjan Locomotive Works, Indian Railways, Govt of India. So, we are

under the ISO of CLW. Regarding fire safety measures Dr Roy, also said about the important

and obligations to install fire safety measures in Deshabandhu Mahavidyalaya. Dr. Mousumi

Kundu proposed to maintain AMC in water purifier because it helps proper purification. Dr

Mukul Kamle suggested to engage students of NSS and ECO Club to maintain cleaniness in the

college campus area.

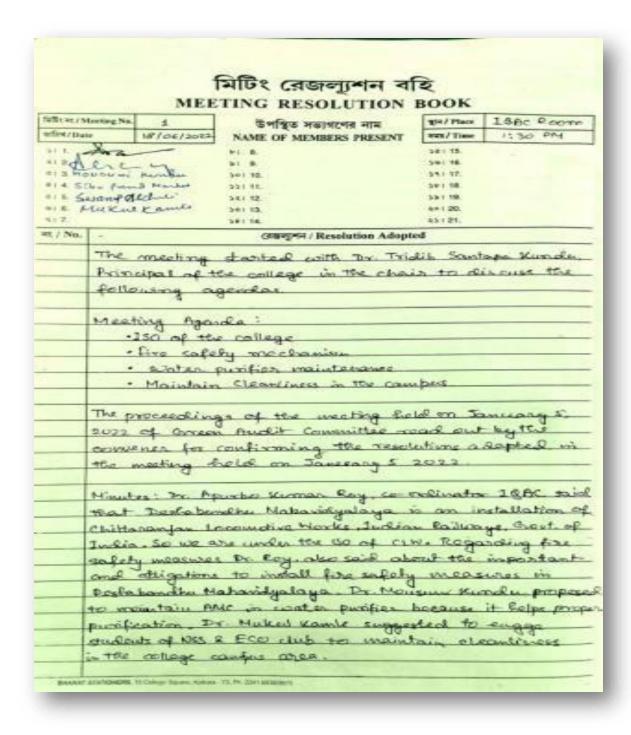
Resolutions:

1. Resolve to collect ISO certificate from CLW Authority

2. Resolved to progress on Fire Safety Installation at Deshabandhu Mahavidyalaya

7

- 3. Resolve to maintain water purifiers annually
- 4. Resolve to clean campus area once in a week
- 5. Resolve to engage students' member of NSS and Eco-club of Deshabandhu Mahavidyalaya to maintain cleanliness in the college campus area.



m/No.	Resolution Adopted
-	Resolutions:
	1. Resolve to collect 150 certificate from CLW
	Authority.
	2. Resolved to progress on fire safety Installation
-	- Danasandhu Mahariolualaya
	s. Resolve to maintain evater purifiers annually
	to clean compus area once in a cosek
	5. Resolve to engge students' member of NSS
	and Eco-club of Deshabondhu Maharidyalaya
	to maintain cleanliness intere college comp

Meeting No. 2

Meeting Date: 15/09/2022

Time: 2.30 p.m.

Place: IQAC Room

The meeting started with Dr. Tridib Santapa Kundu, Principal of the college in the chair to discuss the following agendas:

Meeting Agenda:

- 1. E-waste Management
- 2. Vermicompost training Programme
- 3. Organic Farming
- 4. Construction of Garbage Collection Points

The proceedings of the meeting held on June 18, 2022 of Green Audit Committee read out by the convener for confirming the resolutions adapted in the meeting held on June 18, 2022

Minutes:

Dr Tridib Santapa Kundu, Principal, Deshabandhu Mahavidyalaya informed that an NGO named Kabita Memorial Foundation, Asansol working on E-waste management and they applied to install a bin in our college to collect e-waste generated in college as well as home of the students and staffs. He also suggests to initiate vermicompost training programme in Deshabandhu Mahavidyalaya. Dr Mukul Kamle said that students must have knowledge about

organic farming, so, students members would involve in organic farming in college campus area. Dr. Apurbo Kumar Roy, Co-ordinator, IQAC suggest to construct waste collection point outside college area so that regular waste collection from CLW would be easy.

Resolutions:

- 1. Resolved to collaborate with NGO working on E-waste Management for the disposal of E-Waste in Deshabandhu Mahavidyalaya.
- 2. Resolve to process for the initiation of vermicompost training
- 3. Resolve to give hands-on training of organic farming to the students of Eco-Club So, that they further give training in social outreach programme
- 4. Resolve to construct Garbage Collection Point outside the college

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	MEETING RES	OLUTION	ВООЛ	00.4	
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	2. Vermicouport training programme				
	4 Construction of Garbage Collection Points			rinte	
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E/No.	রেক্সপুশন / Resolution Adopted		
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	Resolutions		
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	E-waste management for disposal of E-mes		
	in Destabandhe Maharridgalaga		
	a. Resolve to process for the initiation of		
	remicompose training		
-	3. Resolve to give hands on training of		
	organic farming to the students of 200-club.		
	so that they Perother give training is social		
	outreach programme.		
	4. Rosolve to construct chambage Collection Point.		
- 1	outside the college.		

Meeting No. 3

Meeting Date: 19/01/2023

Time: 2.30 p.m.

Place: IQAC Room

The meeting started with Dr. Tridib Santapa Kundu, Principal of the college in the chair to discuss the following agendas:

Meeting Agenda:

- 1. Electric Meter change and Electric Bill
- 2. Artificial nesting for increasing biodiversity
- 3. Making Compost from Kitchen Waste
- 4. Preparation for making Butterfly park

The proceedings of the meeting held on September 15, 2022 of Green Audit Committee read out by the convener for confirming the resolutions adapted in the meeting held on September 15, 2022

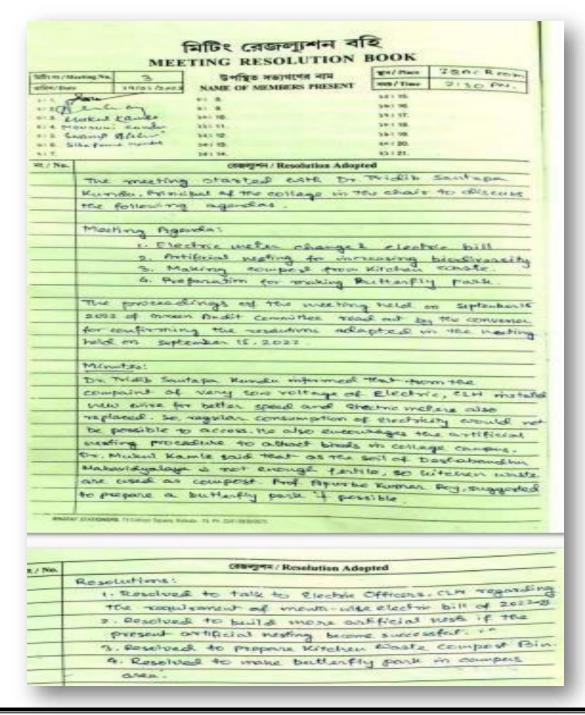
Minutes:

Dr Tridib Santapa Kundu informed that from the complaint of very low voltage of Electric, CLW installed new wire for better speed and Electric Meters also replaced. So, regular consumption of Electricity would not be possible to access. He also encourages the artificial nesting procedure to attract birds in college campus. Dr Mukul Kamle said that as the soil of Deshabandhu Mahavidya-

laya is not enough fertile, So, kitchen wastes are used as compost. Prof. Apurbo Kumar Roy suggested to prepare a butterfly park if possible.

Resolutions:

- 1. Resolved to talk to Electric Officers, CLW regarding the requirement of month wise electric bill of 2022-23
- 2. Resolved to build more artificial nests if the present artificial nesting becomes successful.
- 3. Resoled to prepare Kitchen Waste Compost Bin
- 4. Resolved to make Butterfly Park in campus area.





DESHABANDHU MAHAVIDYALAYA, CHITTARANJAN

NAAC Accredited B + College

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Recognised Under Section 2(f) & 12(B) of UGC

P.O. – Chittaranjan, District – Paschim Bardhaman, West Bengal,

India, PIN – 713 331

Members of Eco Club (2022-23)

Chairman:	Dr. Tridib Santapa Kundu	
IQAC Co-ordinator:	Dr. Apurbo Kumar Roy	
Convener:	Dr. Mukul Kamle	
Members:	Mousumi Kundu	
	Siba Prasad Mondal	
	Dr. Shrabani Basu	
	Dr. Sourav Mardyana	
(A.C.)	Swarup Akhuli	
	Dr. Soumendra Paul	
	Debasish Paul	
Students' Representative:	Mohima Mondal	
	Ahana Singha	
	Sourav Layek	
	Akash Guntha	
	Bhagyashree Mondal	



Deshabandhu Mahavidyalaya Chittaranjan

No of Meeting held so far: 02

Meeting Resolutions:

Meeting 1:

Date: 15.09. 2022

Time: 2.00 p.m.

Place: IQAC Room

Members Present:

- 1. Tridib Santapa Kundu
- 2. Apurbo Kumar Roy
- 3. Mukul Kamle
- 4. Siba Prasad Mondal
- 5. Mousumi Kundu
- 6. Swarup Akhuli

The meeting started with Dr Tridib Santapa Kundu, Chairman, ECO-Club to discuss the following agendas.

Agenda:

- 1. Installation of Colour Dustbin
- 2. Plastic free zone
- 3. Awareness programme relating to bio diversity identification

Minutes: Prof. Mousumi Kundu, Department of Chemistry proposed that to implement the green strategy in our college it must be declared as plastic free zone and segregation of degradable and non-degradable waste generated in the College campus is required. She also added, coloured bins (blue for non-degradable waste, green for degradable waste) for collection of segregated waste generated in the College should be installed. Apart from that Prof. Siba Prasad Mondal suggested to ban burning fallen dry leaves in campus area rather try to use it for making compost. Mukul Kamle, convener of Eco-Club proposed to organize an awareness programme relating to bio-diversity identification and conservation.

Resolutions:

- 1. Resolved to make and notify the college as Plastic Free Zone.
- 2. Resolved to install, coloured bins (blue for non-degradable waste, green for degradable waste) for collection of segregated waste generated in the College.
- 3. Resolved to arrange a programme relating to Bio-Diversity identification in the college campus area.

মিটিং রেজল্যুশন বহি MEETING RESOLUTION BOOK

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R / No.	রেজল্মশন / Resolution Adopted		
	Resolutions:		
	1. Resolved to make and notify the college as Plastic Free Zone'		
	2. Resolved to install, coloured bins Chine for non-biodegradable waste and green for degradable maste)		
	3. Resolved to arrange a programme relative to Bio-Diversity identification in the college campus area.		

Meeting 2:

Date: 16.02. 2023

Time: 2.30 p.m.

Place: IQAC Room

Members Present:

Dr Tribid Santapa Kundu Dr Mukul Kamle Prof. Siba Prasad Mondal Prof. Mousumi Kundu Prof. Swarup Akhuli Dr Shrabani Basu Dr Sourav Mardyana

The meeting started with Dr Tridib Santapa Kundu, Chairman, ECO-Club to discuss the following agendas.

Agenda:

1. Prohibition of burning fallen dry leaves

2. Implementation of waste material recycling initiatives

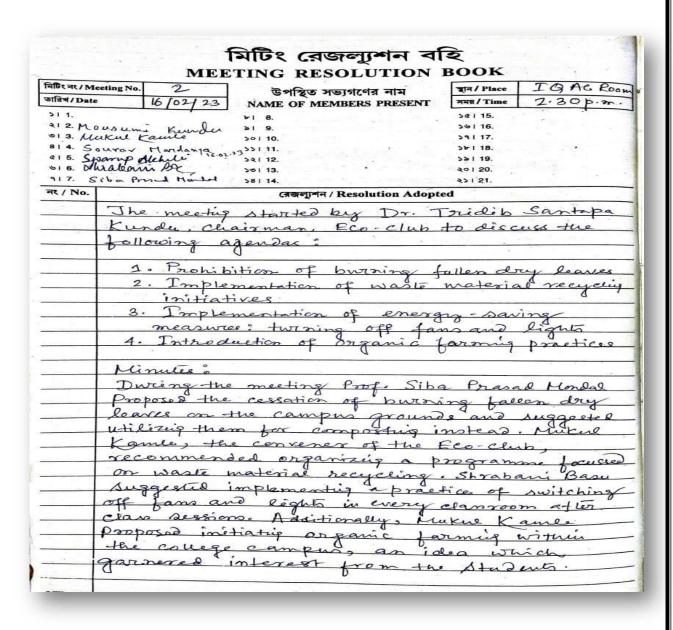
3. Implementation of energy-saving measures: turning off fans and lights

4. Introduction of organic farming practices

Minutes: During the meeting, Professor Siba Prasad Mondal proposed the cessation of burning fallen dry leaves on the campus grounds and suggested utilizing them for composting instead. Mukul Kamle, the convener of the Eco-Club, recommended organizing a program focused on waste material recycling. Shrabani Basu suggested implementing a practice of switching off fans and lights in every classroom after class sessions. Additionally, Mukul Kamle proposed initiating organic farming within the college campus, an idea which garnered interest from the students.

Resolutions:

- 1. It was resolved to prohibit the burning of fallen dry leaves.
- 2. It was resolved to conduct a workshop to educate on waste material recycling.
- 3. It was resolved to assign responsibility to the Eco-Club students to ensure that fans and lights are switched off in classrooms after classes.
- 4. It was resolved to provide hands-on training in organic farming practices.



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	2. It was resolved to conduct a workshop to educate students on waste material		
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	3. It was resolved to assign responsibility to the Feo-Chib Atudents to ensure that		
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	1. It was prosolved to provide handson training in Organic farming practices.		

ACTION TAKEN REPORT: (2022-2023)

- All the students, teachers and non-teaching staffs are requested to maintain a clean campus for a healthy College environment.
- The campus has installed various coloured bins for segregation of waste, generated in the campus. All are requested to dispose organic degradable waste in the 'Green Bin' and non-degradable waste in the 'Blue bin'.
- Faculty, staff, and students have received clear instructions to disconnect and turn off electrical devices (Computers, AC, Water Purifier) when they are not in use or after using them.
- All the students, teachers and non-teaching staffs are requested to switch off the lights and fans of the class rooms and also in the staff rooms before leaving.
- The College Campus is declared a 'PLASTIC FREE ZONE'.
- The Eco- club, consisting of both students and staff, continues to exhibit a strong interest in tree planting and various environmentally friendly initiatives.

FUTURE PROGRAMMES OF THE COMMITTEE:

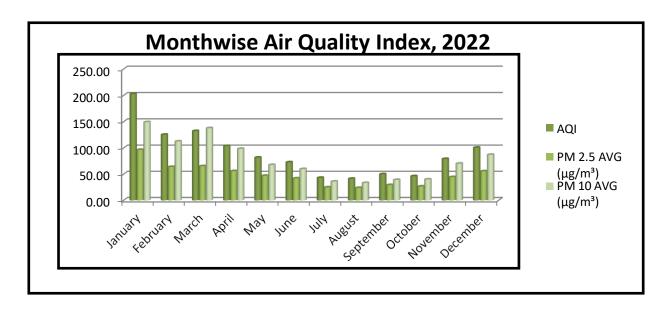
- Organizing 'Environmental Awareness programmes for students, office staffs and faculty members.
- Use of compost fertilizer in the campus for plants produced from vermicompost.
- Encouraging students to setup organic vegetable gardens at home, and to buy organic foods and eco-friendly commodities.
- Measures have to be taken to set up **OUTDOOR CLASSROOMS**.
- Reducing the use of paper and 'Go Digital'
- Celebration of a 'NO VEHICLES DAY' in the campus
- Formation of New Budget Head for meeting expenses related to the Green expenditure Training students on watershed and the local environment.

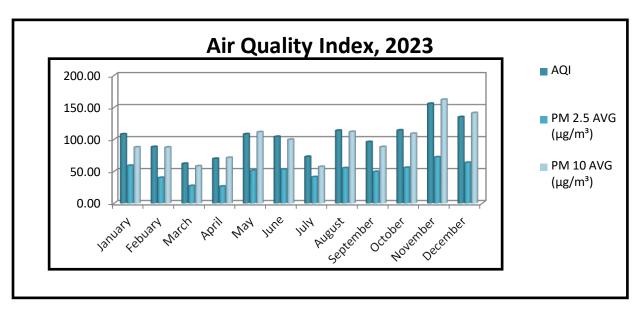
POLICY ENFORCEMENT STRATEGIES:

The Principal, members of Environmental Committee and student volunteers are extremely alert about the Green Policies adapted by the College. Anyone violating the rules is penalized

1.4.13	Whether college has conducted any awareness/responsibility Programme among the staff members:	Yes
1.4.14	Whether all the departments/teachers/non-teaching members/students are aware about the need of the environmental protection and audit:	Yes
1.4.15	Whether college has involved the students as volunteers in greening programmes:	Yes
1.4.16	Whether construction/demolition/repairing are in compliances with green standard:	Yes
1.4.17	Whether the institute has department of Law/Environmental Science/3-Year degree Course/Course curriculum	No
1.4.18	Whether college provides any community services, if so, give details (as Annexure):	Yes
1.4.19	Whether the students are aware about the use of medicinal plants (any lecture/seminar/conference organized on it):	No
1.4.20	Restriction in use of plastic and plastic products	Yes
1.4.21	Culture of some ducks, swans etc., for scenic beauty in pond or any water body resources (if available)	No
1.4.22	Is there any device (preferably HVS: High Volume Sampler) for measuring ambient air quality in the campus (if so, pl mention the data month wise):	Yes
1.4.23	Training on vermicomposting	No
1.4.24	Celebration of 'No vehicle Day' on a particular day	No

1.4.25	Dams inside the campus to meet the demand for water	No
1.4.26	Installation of fire safety instruments in all the buildings/departments	No
1.4.27	Toilets/separate toilets for differently abled students	Yes





Year	Months	Latitude	Longitude	AQI	PM 2.5 AVG (μg/m³)	PM 10 AVG (µg/m³)	REL ATIVE HUMIDITY(%)	TEMP. (°C)
2022	January	23.8364	86.89834	202.57	96.59	149.30	78	17
2022	February	23.8364	86.89834	125.54	63.98	112.68	68	19
2022	March	23.8364	86.89834	132.49	65.37	137.93	55	28
2022	April	23.8364	86.89834	103.83	55.92	98.58	66	32
2022	May	23.8364	86.89834	81.78	47.08	67.69	73	30
2022	June	23.8364	86.89834	72.83	42.04	59.88	77	30
2022	July	23.8364	86.89834	43.17	24.91	36.06	82	30
2022	August	23.8364	86.89834	41.36	23.84	33.32	86	29
2022	September	23.8364	86.89834	50.06	29.33	39.19	88	28
2022	October	23.8364	86.89834	46.26	26.69	40.07	82	26
2022	November	23.8364	86.89834	79.23	44.53	70.28	71	22
2022	December	23.8364	86.89834	100.80	55.61	87.11	69	19

Location: Deshabandhu Mahavidyalaya, Paschim Bardhaman, 2023

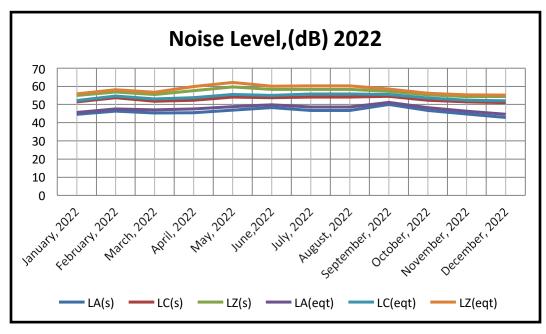
Months	Latitude	Longitude	AQI	PM 2.5 AVG (μg/m³)	PM 10 AVG (μg/m³)	RELATIVE HUMIDITY (%)	TEMPERATURE (°C)
January, 2023	23.8364	86.89834	108.13	58.93	87.74	70	18
Febuary	23.8364	86.89834	88.35	40.00	87.63	54	22
March	23.8364	86.89834	62.04	27.31	58.16	61	25
April	23.8364	86.89834	69.83	26.44	71.31	46	31
May	23.8364	86.89834	108.32	51.27	111.50	59	31
June	23.8364	86.89834	104.27	52.85	99.79	59	33
July	23.8364	86.89834	72.92	41.13	57.18	80	30
August	23.8364	86.89834	113.81	55.13	111.89	83	29
September	23.8364	86.89834	96.08	49.45	88.29	86	29
October	23.8364	86.89834	114.24	55.77	109.02	78	28
November	23.8364	86.89834	155.86	72.18	162.20	71	24
December	23.8364	86.89834	134.94	63.62	141.35	72	21

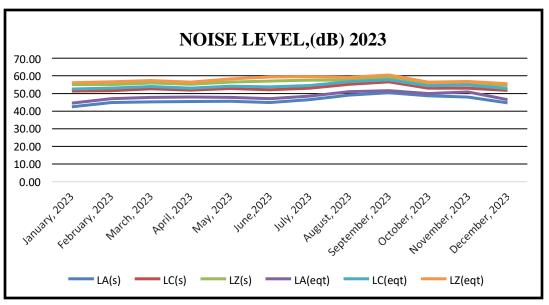


1.4.28 Over all Noise level in Decibel (dB) at Deshabandhu Mahavidyalaya

Sl no.	Inside cam-	Outside	Class room	Lawn	Of-	Laborato-	Can-
	pus area	campus			fice	ry	teen
1.Summer	55db	60db	43db	48db	55db	63db	65db
2.Rainy	52db	60db	45db	48db	60db	62db	65db
3.Winter	58db	62db	48db	48db	58db	60db	68db

Collected by sound meter mobile app





Months	LA(s)	LC(s)	LZ(s)	LA(eqt)	LC(eqt)	LZ(eqt)	LA(peakt)	LC(peakt)	LZ(peakt)
January, 2022	44.63209	51.47195	55.05673	45.73564	52.19376	55.87047	73.95957	75.8647	78.28346
February, 2022	46.31741	53.75938	56.96567	47.63522	54.727	58.1165	76.89586	79.21765	81.42485
March, 2022	45.31243	51.87897	55.50125	47.06618	52.99332	56.68593	75.95015	77.53941	79.89038
April, 2022	45.55914	52.32058	57.65253	47.56572	53.77106	59.91792	76.73743	79.33221	83.70248
May, 2022	46.88908	54.17105	59.70127	48.86302	55.5832	62.16135	77.28495	80.36991	85.34046
June,2022	48.36677	53.74174	58.36721	49.94661	54.97494	60.1497	78.3302	80.27155	84.04937
July, 2022	46.82049	54.09754	58.32233	48.69023	55.8003	60.31093	78.89117	82.88686	85.77503
August, 2022	46.82049	54.09754	58.32233	48.69023	55.8003	60.31093	78.89117	82.88686	85.77503
September, 2022	50.04947	54.53931	57.29732	51.20749	55.61022	58.51935	79.10337	81.3758	83.36354
October, 2022	46.7713	52.43995	55.27579	48.23502	53.51338	56.3125	79.29	81.94558	83.51497
November, 2022	44.74033	51.42772	54.40825	46.3889	52.40827	55.30601	76.46398	78.31671	79.92726
December, 2022	42.87485	51.09594	54.43239	44.68141	52.06974	55.22859	75.79966	77.47261	78.90276



Months	LA(s)	LC(s)	LZ(s)	LA(eqt)	LC(eqt)	LZ(eqt)	LA (peakt)	LC (peakt)	LZ (peakt)
January, 2023	42.41	51.36	55.00	44.48	52.48	56.11	75.76	77.84	80.18
February, 2023	44.86	51.54	54.97	46.97	52.94	56.68	77.42	79.35	81.87
March, 2023	45.29	52.59	55.89	47.65	53.99	57.34	78.38	80.37	82.32
April, 2023	45.29	51.88	55.11	47.96	53.03	56.51	77.02	78.49	80.93
May, 2023	45.59	52.86	56.52	47.78	54.14	58.17	78.52	80.41	83.08
June,2023	44.80	52.12	56.94	47.03	53.66	59.29	78.18	81.02	85.41
July, 2023	46.51	53.07	57.45	48.39	54.41	59.60	80.33	82.39	85.92
August, 2023	49.01	55.19	57.61	50.96	56.67	59.09	83.39	85.20	86.55
September, 2023	50.40	56.57	59.00	51.57	57.73	60.45	80.58	83.33	85.49
October, 2023	48.57	53.06	55.36	49.88	54.18	56.53	77.63	79.75	81.28
November, 2023	47.93	53.01	55.23	50.79	54.77	56.72	81.36	83.29	84.22
December, 2023	44.66	51.65	54.53	46.49	52.66	55.52	76.88	78.74	80.44

	Comments on the Green monitoring by green commit-	
	tee/volunteers/team	
	following:	
1.4.2	Di Colonia	Y TEG
1.4.2	Plantation program	YES
9	E . CN . 1.11/E .11	YEG
1.4.3 0	Formation of Natural club/Eco club	YES
1.4.31	Management of natural resources, wildlife, conservation of species	
1.4.32	Any project sponsored by national funding agency/NGO, independent project related to environmental issues	No
1.4.33	Is there any incidence of burning of plastics containing garbage within the campus for necessary reduction: Y / N	No
1.4.34	Celebration of 5 th June, Ozone day, Earth Day etc.: Y / N	YES
1.4.35	Number of field visits/survey records: Y / N (if Y number)	YES
1.4.36	Campus biodiversity register	YES
1.4.37	General aspects (express in statements)	
	Rainwater harvesting Campus cleanliness	Rain water uses for ground wa- ter recharge. Roof pipes are connect- ed to re- charge area NSS mem- bers and members of Eco-Club are jointly help to make cam-
	Solar street lamps	make campus clean
	Carbon dioxide neutrality on the campus by developing greenery	Yes
	Man-made nest to attract some birds to maintain ecological balance	Yes

ISO CERTIFICATE OF CHITTARANJAN LOCOMOTIVE WORKS DESHABANDHU MAHAVIDYALAYA AS AN EDUCATIONAL INSTALLATION WITHIN CHITTARANJAN TOWNSHIP



CLW/CHITTARANJAN

No. ISO/MR/06

Date: 10-10-2022

CEE/I&D/CSTM, Dy.CEE/I&D/DLI, Dy.CEE/I&D/HWH, CQAM, Dy.CME/ELF, Dy.CME/ELB, Dy.CME/ELA, Dy.CME/Mfg, Dy.CME/Plant, Dy.CME/M&P, Dy.CME/PR/SF, Dy. CEE/Loco, Dy.CEE/D&D-I, Dy.CEE/D&D-II, Dy.CEE/D-II, Dy.CEE/D-III, Dy.CEE/D-III, Dy.CEE/TMM, Dy.CEE/TMD, Dy. CMM/D, Dy.CMM/HQ, Dy.CMM/System, Dy.CMM-I, Dy.GM, Dy.CE, Dy.CPO/W, Sr. EDPM, SEE/I&D/SBC, CMT, PTTC, PE/loco.

Sub: Formation of Departmental Management Excellence Team.

Chittaranjan Locomotive Works have Rail Quality Management System (ISO/TS-22163:2017), Quality Management System (ISO-9001:2015), Occupational Health & Safety Management System (ISO-45001:2018) and Environmental Management System (ISO-14001:2015). Presently Chittaranjan Locomotive Works have IRIS Certification with Bronze Status. Now we are planning to upgrade our status in Silver Level. In this regard we have to form a Departmental Management Excellence Team to sustain all the Management System in CLW. You are therefore requested to nominate Sr. Scale/Jr. Scale Officer as Team Leader and Shop/Department wise supervisors as Team Member. Roles & Responsibilities of Team will be as per Annexure – A. Proposed number of Team Members will be as per Annexure – B.

Please send the details of nomination in following tabular form to email id – $\underline{isocell.clw@gmail.com}$

Name	Designation	Contact	Email Id
		*	

Dy.MR & Dy.CME/ELB

Distribution:

- 1. PFA, PCEE, PCME, PCE, PCMO, PCPO, PCMM
- 2. FA&CAO(P), CEE/Loco, CEE/TM, CESE&MR, CEE/D&D, CME/Loco, CME/PR/SF, CME/Mfg, CMM/HQ, CMM/M, CMM/TM, CMM/G.

Roles & Responsibility of Departmental Quality Excellence Team

Role	Responsibilities				
Team Leader	Monitoring the Team Work				
	1. Coordination with ISO Cell				
	2. Departmental Document Preparation				
	3. Successful Implementation of Management System in				
Team Member	Shop/Department.				
ream Member	4. Gap Analysis of Management System in coordination of ISO				
	Cell and Necessary Action to minimize the gaps				
	5. Other works as instructed by Departmental Process				
	Owners/ HODs/ Dy. HODs/ MR/Dy.MR to sustain the system				



L/No. ISO/MR/06	dated 10-10-2022			Annexure	e - B (Page 02)	
Process	Shops/ Departments	Process Owner	Proposed Team Member	RQMS & QMS	EMS	OH&S
	D&D	Dy.CEE/D&D-I	04	Applicable	Applicable	NA
DESIGN	ELDO	Dy.CEE/D- I,II,III	02	Applicable	Applicable	NA
	TMDO	Dy.CEE/TMD	02	Applicable	Applicable	NA
PURCHASE	CRJ	Dy.CMM/HQ	02	Applicable	Applicable	NA
- CROTHIOD	KOAA	Dy.CMM-I/Kol	02	Applicable	NA	NA
	нwн	Dy.CEE/I&D/H WH	01	Applicable	NA	NA
I&D	SBC	SEE/I&D/SBC	01	Applicable	NA	NA
	DLI	Dy.CEE/I&D/D LI	01	Applicable	NA	NA
	CSTM	CEE/I&D/CSTM	01	Applicable	NA	NA
POWER HOUSE	СРН	Dy.CEE/M	02	Applicable	Applicable	Applicable
L&S	L&S	Dy.CEE/I&D/H WH	01	Applicable	NA	NA
	WS	Dy.CE	02	Applicable	Applicable	Applicable
	WD (Filter House)	Dy.CE	01	NA	Applicable	Applicable
	WD (STP)	Dy.CE	01	NA	Applicable	NA
ENGINEERING	Colony Office for Markets 1. Amladahi Market 2.S.P. East Market 3. S.P. North Market 4. Simjuri Market	Dy.CE, Dy.GM	03 (01 from each Colony Office)	NA	Applicable	NA
PUBLIC HEALTH	PH Office (Township Cleaning & Waste Disposal) 1. Amladahi Market 2.S.P. East Market 3. S.P. North Market 4. Simjuri Market	Sr.DMO/H, Dy.GM	02	NA ·	Applicable	NA
HOSPITAL	KGH	Sr.DMO	02	NA	Applicable	NA
	GM Office Canteen	Dy.GM	01	NA	Applicable	NA
CANTEEN	WO Canteen	Dy.CPO/W	01	NA	Applicable	NA
	TO Canteen	Dy.CPO/W	01	NA	Applicable	NA
	D.V. Boys/ BM,HM	Dy.GM, Principal	01	NA	Applicable	NA
	English Medium	Dy.GM, Principal	01	NA	Applicable	NA
	D.V. Girls/ HM, BM	Dy.GM, Principal	01	NA	Applicable	NA
EDUCATIONAL NSTITUTE	Central School	Dy.GM, Principal Dy.GM,	01	NA	Applicable	NA
	BRS School	Principal	01	NA ·	Applicable	NA
	Deshbandhu Mahavidyalaya	Dy.GM, Principal	01	NA	Applicable	NA
	Mahila Samity Uchha Balika Vidyalaya	Dy.GM, Principal	01	NA	Applicable	NA
NSTITUTE	Basanti Institute	Dy.GM, Secretary Dy.GM,	01	NA	Applicable	NA
	Srilata Institute	Secretary	01	NA	Applicable	NA
ORKS OFFICE	WO	Dy.CPO/W	01	NA	Applicable	NA
M OFFICE	GM Office	Dy.GM	01	NA	Applicable	NA
ECURITY & ire Fighting	RPF Department	Sr.SC/RPF	01	NA	Applicable	Applicable

-

METHODOLOGY OF GREEN AUDIT:

The technique for performing a green audit involved a variety of instruments, including questionnaire preparation, a physical examination of the campus, observation and evaluation of the paperwork, key The study covered the following areas to summarize the present status of environment management in the campus:

Water management
Energy Conservation
Waste management
E-waste management
Green area managemen

2. WATER MANAGEMENT

A water audit is an on-site survey and evaluation to ascertain the amount of water used and, subsequently, increases the effectiveness of its usage. Water is utilized in the garden, canteen, restrooms, and laboratories. Water loss must be controlled, neither via leaks nor by water overflowing from overhead tanks. The green audit essentially entails the use of renewable resources, energy saving, a programme for collecting rainwater, efforts to achieve carbon neutrality, planting trees, and the handling of hazardous and e-waste.

2.1.1	Whether college has an efficient and hygiene water storage mechanism to minimize the loss of water during storage	Yes
2.1.2	Whether college is using water filter with RO, Aqua Guard and/or large water filter with cooler at the strategic locations in the college. If so, are they under AMC	Yes
2.1.3	Whether college has its own mechanism in repairing of water leakage	Yes
2.1.4	Is there any rainwater harvesting unit in college: (if so, what are the uses of this water:) a) Ground Water Recharge b) c)	Yes
2.1.5	Whether college has developed any reuse and recyclable of water system	No
2.1.6	Is there any scope of measurement of water quality parameters used in hostel, lab, office, canteen, tap water (if so, parameters: pH, EC, TDS <i>etc.</i>)	Yes
2.1.7	Whether college has sufficient/adequate drainage system:	Yes

2.1.8 Lab-wise water consumption (lt/d)

Chemistry: 2lt/day Geography: 1lt/day

Is there any scope of measurement of water quality parameters used in hostel, lab, office, canteen, tap water (if so, parameters: pH, EC, TDS etc.): Yes



TDS METER
Students



Measuring TDS of College Tap Water by



WATER PH METER

3. ENERGY CONSERVATION

Reduction of energy consumptions, especially fossil fuel energy

3.1.1	Total electric consumption amount	16,168 KWH/Yr
3.1.2	Average electrical consumption in a month	1347 KWH/Month
3.1.3	Total No. of i) LED bulb	195
3.1.4	ii) CFL	0
3.1.5	iii) Tube lights	501
3.1.6	iv) Plug points (25 A, 15 A, 5A)	654 (20, 200, 434)
3.1.7	v) Fans (Table fans, Ceiling Fans, Exhaust Fans)	281 (13, 251, 17)
3.1.8	vi) Air conditioners/Air Coolers	4
3.1.9	Whether college has any provision/choice of renewable and carbon-neutral electricity options.	Yes
3.1.10	Whether college has planned to install solar panels: (if so, Project installed/working: Date/Month/Year)	No
3.1.11	Whether college has efficient water heating system.	No
3.1.12	Whether the staff members of all sectors are concerned in turning off electrical appliances when not in use in both commercial and residential area.	Yes
3.1.13	Is there any monitoring system – like put off the main switch where there is no need of electricity.	Yes
3.1.14	Whether the users follow the appropriate and measurable targets for a reduction of energy, such as, computer, printers, electrical equipment when not in use.	Yes
3.1.15	Is there any options for equipment's running on standby mode.	Yes
3.1.16	Whether college has taken initiative to purchase efficient and environmentally sound appliances in order to fulfill the green budget.: "yes", "no" and "not applicable"	
3.1.17	Whether college has its own mechanism in repairing of electrical fault.	Yes

3.1.18	Whether the class rooms are with sufficient illumination in day time and ventilation	Yes
3.1.19	Number of lights & fans in class room (average)	11 & 6 per class
3.1.20	Use of light & fans in the day time (average hours)	4 hrs
	summer	2 & 4 hours per day
	rainy	4 & 3 hours per day
	winter	4 & 0 hours per day
3.1.21	Number of windows per class	2.35
3.1.22	Natural light source in day time (in hours) (average per class)	5
3.1.23	How many (%) e-notice generated by the college for academic/administrative purposes in a month	95
3.1.24	How many (%) paper-notice generated by the college for academic/administrative purposes in a month	5
3.1.25	Total number of	
	computer	42
	printer	17
	Laptop	22
	Xerox machine	2
	Scanner	9
	Projector	2
3.1.26	Whether college has organized lectures on energy conservation in order to give awareness to the students.	No

ENERGY CONSERVATION STRATEGIES

3.2.1	Whether the architectural design for college is based upon use of natural lighting & ventilation, to save extra power for bulbs and fans.	
3.2.2	Whether florescent bulbs are replaced with CFL bulbs/LEDs.	Yes

MINIMIZE THE USE OF UNSUSTAINABLE TRANSPORT

3.3.1	What are the available/maximum transport facility used by the staff members/students etc., -	Bus and e-rikshaw
3.3.2	Whether college has any common car sharing/car pool among the students and faculty.	No

4.WASTE MANAGEMENT

${\bf Maximization\ of\ the\ process\ of\ wastes\ \&\ minimization\ of\ non-renewable\ refuse}$

4.1.1	Is there any method of segregation of waste materials?	Yes
4.1.2	Total amount of solid waste generated in the campus (including tree droppings & Lawn wastes) Total number of staff Per capita production per day	5 Kg in winter (approx.) 3 Kg in summer (approx.) 74 75 gm.
4.1.3	Whether college arrange any work-shop/seminar/conference for awaring the students/staff for specific arrangements for recyclable wastes.	Yes
4.1.4	Whether college follow specific disposal method for solid or liquid waste in specific manner.	Yes
4.1.5	Whether the recycling/collection facilities are provided by the city Municipality and/or private suppliers (including glass, white plastic bottle, printer cartridges, cardboard, furniture, plastics, thermocol, waste papers, electrical goods & alliances, electronic gadgets, instruments, equipment, packing materials).	Yes, Solid Waste:- Garbage collected by CLW of Indian Railways. E-waste - Collected by Kabita Memorial Foundation, Asansol.
4.1.6	Whether college has any composting ground/vat or any collection unit <i>etc</i> . (if yes, what is the percentage of waste undergone composting and the final use of the products)	Yes, it is used as organic manure
4.1.7	Is there any mechanism of treatment/uses of domestic influent in the college campus (if so, what is the capacity of treatment plant/composting <i>etc.</i>).	Yes

Minimize use of chemical pollutants

SI No.	Department	Name of the waste			Total (a+b+c)	Character- ization(if any)	Method of disposal	Agency if any
		Chemical (a)	Biological waste (b)	Microbial waste (c)				
	Chemistry	A. HavyMetals like Hg,Pb,As,Cd B. inorganicand OrganicAcid C. Bases D. Organic and inorganicSolvents E. Alliphatics AndAromatics Compounds	Nil	Nil		Very low concentra- tio n and not regularly dis- charged	Neutraliza tion,absolution adsorption and solidification	

Records of dustbins/collection bins inside the campus

	r							
Sl no.	Location	No. of dustbins	No. of dust-	Quantity of	Dispos-	Cleaning by		
		Biodegradable	bins Non-	collection	al time	ecofriendly		
		_	biodegradable	(per day)		product Y/N		
1	Lawn	1	1	2kg	4.30 pm			
2	canteen	1	1	2 kg		Y		
3	Toilet	0	4	1/2kg				
4	Corridor	4	4	1kg				
5	Staff room	1	1	2kg				

4.1.10	Whether the cleaning products used by the college staff are ecofriendly and under the COSHH (Control of Substances Hazard to Health) regulations.	No
4.1.11	Whether the college is using fertilizers, pesticides for any purposes, if so, amount used per month and places of uses	
4.1.12	Use of public transport.	Yes

5.E-WASTE MANAGEMENT

Quantity of e-waste generated: 1 to 2 kg/month

Number of cartridge used month-wise: 1

Number of cartridge disposed in a year (average): 5

Number of times refilling & reusing method of disposal of e-waste (if any):

Till it becomes unusable

Whether college has conducted any awareness Programme on e-waste management: No Is there any means of disposal of unused computers, printers and electronic wastes through authorized agents: No

Disposal methods:NA

Sl No.	Location	Amount of generation	Method of disposal	Name of the Agency (if any) for disposal

6. GREEN AREA MANAGEMENT

Is there any garden in the college campus/outside the campus under college custody: Yes

Whether the garden is watered by using drip/sprinkler irrigation system: No

Is there any mechanism of review of periodical monitoring of tree species: Yes

Whether the college has taken any programme for plantation of some fruit trees which can attract birds, bees *etc.*: Yes

BIODIVERSITY MAPPING

Sl	Type of plant		Species name	Total no.
No.				Plants
	Indigenous	Neem	Azadirachtaindica	04
	plants	GhoraNeem	Meliaazedarach L	1
		Peepal	Ficusreligiosa	2
		Custard Apple	Annonareticulata	1
		Chhatim	Alstoniascholaris	15
		Mango	Mangiferaindica	7
		Cashew	Anacardiumoccidentale	14
		Shirish	Albizialebbeck	13
		Segun	Tectonagrandis	07
		Palash	Buteamonosperma	03
		Banyan	Ficusbenghalensis	01
		Radhachura	Caesalpiniapulcherrima	10
		Subabul	Leucaenaleucocephala	04
		Plum	Prunusdomestica	01
		Sissoo	Dalbergiasissoo	05
		Sonajhuri	Acacia auriculiformis	04
		Jackfruit	Artocarpusheterophyllus	03
		Guava	Psidiumguajava	02
		Pomegranate	Punicagranatum	01
		Wood apple	Limoniaacidissima	01
	Medicinal	Aloe Vera	Aloe vera	09
	plants	Basil	Ocimumbasilicum	12
		Mint	Mentha	10
		Asparagus	Asparagus officinalis	03
		Costusigneus	Chamaecostuscuspidatus	
		Anantamul	Hemidesmusindicus	
		Sarpagandha	Rauvolfiaserpentina	02
		Bisalyakarani	AervaJavanica	02
		Lemon Grass	Cymbopogon	05

Ram Basok Justiciaadhatoda Lipstick Tree Bixaorellana Supari Areca catechu Lojjaboti Mimosa pudica Ornamental Cactus Cactaceae plants Snake plant Dracaena trifasciata Karabi Nerium oleander I Crepe Jasmine Tabernaemontanadivaricata Hibiscus Hibiscus rosa-sinensis Rose Rosa rubiginosa (Casuarinaequisetifolia Mili Flower Plant Euphorbia milii Duranta Durantaerecta Lalsa Plant Murrayapaniculata Victoria Plant Victoria amazonica (Casuarinaequisetifolia Mussaenda Mussaendaerythrophylla (Casuarinaequisetifolia Mussaenda Mussaendaerythrophylla (Casuarinaequisetifolia (Casuarinaequis	01	Euphorbia tirucalli	Pencil Cactus	
Lipstick Tree Bixaorellana Supari Areca catechu Lojjaboti Mimosa pudica Ornamental Cactus Cactaceae plants Snake plant Dracaena trifasciata Karabi Nerium oleander I Crepe Jasmine Tabernaemontanadivaricata Hibiscus Hibiscus rosa-sinensis Rose Rosa rubiginosa Casuarinaequisetifolia Mili Flower Plant Euphorbia milii Duranta Durantaerecta Lalsa Plant Murrayapaniculata Victoria Plant Victoria amazonica Jasmine Jasminum Casuarinaequisetifolia Krishnachura Delonixregia Cardenia jasminoides Exotic Debdaru Polyalthialongifolia Gardenia Gardenia Gardenia Gardenia Gardenia Gardenia Gardenia Golden pothos Exotic Debdaru Swietenia Casuarinae Bolati-jhau Casuarinaequisetifolia Casuarinaequisetifolia Murrayapaniculata Victoria amazonica Casuarinaequisetifolia Gardenia Jasminoides Gardenia Gardenia jasminoides Exotic Debdaru Polyalthialongifolia Gardenia jasminoides E	12	Kalanchoeblossfeldiana	Kalanchoe	
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Lojjaboti Mimosa pudica	4	Bixaorellana	Lipstick Tree	
Ornamental plants Snake plant Snake plant Karabi Crepe Jasmine Hibiscus Rose Rose Rosa rubiginosa Rangan Evoracoccinea Belati-jhau Casuarinaequisetifolia Mili Flower Plant Duranta Durantaerecta Lalsa Plant Victoria Plant Victoria Plant Allamanda Allamandacathartica Mussaenda Mussaenda Krishnachura Gardenia Gardenia Gardenia Bebatant Belonixregia Gardenia Gardenia Gardenia Gardenia Belonixregia Gardenia Gardenia Gardenia Belonixregia Gardenia Gardenia Gardenia Gardenia Gardenia Gardenia Gardenia Bobadam Sterculiafoetida Mehogany Swietenia Crown of thorns Euphorbia milii Lucky Bamboo Dracaena sanderiana Snake Plant Dracaena trifasciata Hibiscus rosa-sinensis	5	Areca catechu	Supari	
plants Karabi Karabi Nerium oleander Crepe Jasmine Tabernaemontanadivaricata Hibiscus Hibiscus Hibiscus rosa-sinensis Rose Rosa rubiginosa Rangan Ixoracoccinea Belati-jhau Casuarinaequisetifolia Mili Flower Plant Duranta Duranta Durantaerecta Lalsa Plant Victoria Plant Victoria amazonica Jasmine Allamanda Allamanda Allamandacathartica Mussaenda Mussaenda Krishnachura Delonixregia Gardenia Gardenia Gardenia jasminoides Exotic Debdaru Polyalthialongifolia Gardenjau Boxbadam Sterculiafoetida Mehogany Swietenia Golden pothos Epipremnumaureum Crown of thorns Euphorbia milii Lucky Bamboo Dracaena sanderiana Snake Plant Dracaena trifasciata Chinese Hibiscus Hibiscus rosa-sinensis	5	Mimosa pudica	Lojjaboti	
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Lucky Bamboo Dracaena sanderiana Snake Plant Dracaena trifasciata Chinese Hibiscus Hibiscus rosa-sinensis		Epipremnumaureum	Golden pothos	
Snake Plant Dracaena trifasciata Chinese Hibiscus Hibiscus rosa-sinensis		Euphorbia milii	Crown of thorns	
Chinese Hibiscus Hibiscus rosa-sinensis		Dracaena sanderiana	Lucky Bamboo	
		Dracaena trifasciata	Snake Plant	
		Hibiscus rosa-sinensis	Chinese Hibiscus	
Lipstick Plant Bixaorellana		Bixaorellana	Lipstick Plant	
Lojjaboti Mimosa pudica		Mimosa pudica	Lojjaboti	

Records of Plantation programmes

Sl No.	Programme conducted	Date of functioning	No. of tree planted	Present status of the species	Documentation (if any)	No. of beneficiaries	1.

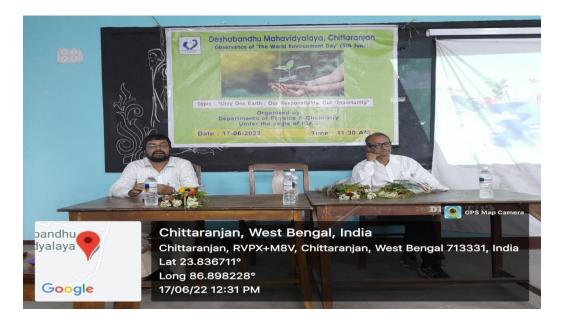
- **Birds**: In campus area of the college most found birds are Parrot, Common Myna (salik), Jungle Babler (Sat bhai Chhatare), Hoope (Mohon Chura), Indian Cuckoo (Kokil), Black hood-ed Oriole (Bau Kotha Kau), King fisher (Machh Ranga) and many more.
- Animals: Small animals like Squirrel, Snake, Hare, Dog and Fox are found.
- **Insects:** Ants, Butterfly, Beetles, Spider, Jewel Bug etc.



Campus Cleaning by NSS Volunteers



Celebration of World Earth Day



Observation of World Environment Day



Swachh Bharat Abhiyan at College Campus



Health Awareness Programme at Kundalpara (adopted village of the College)



Thalassemia Detection Camp at Deshabandhu Mahavidyalaya



Gardening at College Campus Area by NSS Volunteers



Observations of Energy Conservation Day



'Plastic Free Society' Social Outreach Programme by NSS



Artificial Nesting at College Campus



Department of Geography: Field Survey at SUNDARBAN