

Date: 04/01/2025

To
The Principal
SAMMILANI TEACHERS' TRAINING COLLEGE
BARAKHALA
MUKUNDAPUR
KOLKATA 700 099
West Bengal

Website: <https://sammilanittc.net>
E-mail: info@sammilanittc.net

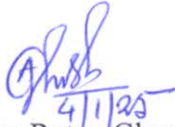
Subject: Environmental Audit Report Submission from Experts

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 2023 -'24, here, we are submitting the Audit Report of "Environmental/Green Audit" of your College of the period of 2023 -'24 for your kind perusal in the attached sheet.

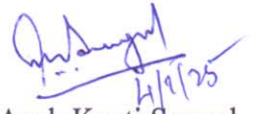
We request you to please acknowledge and oblige.

Yours sincerely,



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

Professor & Head (Retd.)
Environmental Science
The University of Burdwan
Burdwan



Dr Asok Kanti Sanyal
Ex-Chairman
West Bengal Biodiversity Board
Kolkata

Dr. Asok Kanti Sanyal
Chairman (Retd.)
West Bengal Biodiversity Board
(Dept. of Environmental, Govt. of West Bengal)
NABET - OCI Accreditation

Date: 04/01/2025

**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 Sammilani Teachers' Training College, Barakhala, Mukundapur, Kolkata 700 099, West Bengal is based on the original data collected during the period of 2023-'24. 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 IQAC in collaboration with Green Committee members of Sammilani Teachers' Training College, Barakhala, Mukundapur, Kolkata 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 Governing Body of the College 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 Green Committee members during preparing their Report of the concerned year 2023 - '24.

Dr. Apurba Ratan Ghosh
4/1/25

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

Professor & Head (Retd.)
Environmental Science
The University of Burdwan
Burdwan

Dr. Asok Kanti Sanyal
4/1/25

Dr Asok Kanti Sanyal
Ex-Chairman
West Bengal Biodiversity Board
Kolkata

Dr. Asok Kanti Sanyal
Chairman (Retd.)
West Bengal Biodiversity Board
(Dept. of Environmental, Govt. of West Bengal)
NABET - OCI Accreditation

SAMMILANI TEACHERS' TRAINING COLLEGE

BARAKHALA, MUKUNDAPUR, KOLKATA

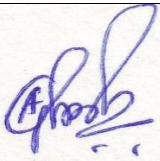
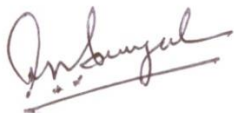
ESTD. 2005

**ENVIRONMENTAL AUDIT/
GREEN AUDIT REPORT
[2023 -'24]**

*Prepared by
The Audit Committee*

**Schedule for Environmental Audit/Green Audit
(January04, 2025)**

Time	Schedule	Venue
11:30 AM	Introductory Meeting with the Principal	Office Chamber of the Principal
12:00 NOON	Meeting with the IQAC Coordinator & Faculty Members	Office Chamber of the Principal
12.30 PM	Meeting with Coordinator of Green Committee & Faculty Members	
12:45 PM – 1.30 PM	Presentation of Green Committee	
02:00 PM	Lunch	
02:30 PM – 05.30 PM	Physical visit and Preparation of Report	
05:45 PM		Tea

		
Dr ApurbaRatan Ghosh Ex-Professor & Head Deptt. of Environmental Science The University of Burdwan Burdwan		Dr AsokKantiSanyal Ex-Chairman West Bengal Biodiversity Board Kolkata

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

Sammilani Teachers' Training College, located on Eastern Metropolitan By Pass, Calcutta, was established on 2005 aiming to promote higher education in the local areas. Sri KantiGangulyMahashay has taken a great initiative to start this Institution. Initially, it started only B.Ed. department. IGNOU was associated with this Institution since 2008. Later started M. Ed. since 2017. It was first accredited in 2014 by NAAC and secured B (Score value 2.44). This College was recognised by NCTE in 2005 and 2017. It was affiliated to the University of Calcutta up to 2015, now it is under the Baba SahebAmbedkar Education University (Erstwhile WBUTTEPA). College maintains a clean and transparent administration and good ambience inside the College Campus. 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 as well as producing empowered and enlightened individuals.

In accordance with the "Format of Green Audit: Questionnaire", theSammilani Teachers' Training College, Barakhala, Mukundapur, Kolkata, West Bengal has prepared the report for the period of 2023 -'24, and the audit is performed on 04th of January, 2025. The purpose of the audit was to ensure that the green practices followed in the campus are in accordance with the Management practices adopted by the College. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the College is in compliance with the applicable regulations, policies and standards.

The analysis was based upon a physical examination of the different sectors including existing facilities, *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 12707.022 sq.mt, built up area is of 2552.94 sq.mt. open space is of 9954.082 sq.mt and green area of 200.0sq.mt.

College has constituted the “Green Committee” and proposed some initiatives for sustainable development in the College campus and to maintain greenery.

1. College celebrates different environmental awareness programmes.
2. College campus has installed the Solar Panel of 20Kw capacity under the initiative of its Parent body, PaschimbangaRajyaPratibandhiSammilani in the campus.
3. Disposal of all degradable and non-degradable solid wastes is followed through Kolkata Municipal Corporation.
4. Rainwater harvesting system is under process.
5. College has satisfactory IT facility.
6. College has constituted Nature Club Committee, Environmental Committee, and Green Committee for effective management of clean & safe environment in the College.
7. Students are undergoing internship on “Best out of Waste” approaching a good as well as best practice of utilization of waste materials as household and fashionable recyclable goods.
8. College is conducting awareness programmes during “Kolkata Book Fair” every year.
9. College celebrates different community service programmes on 3rd December as World Day of the Handicapped or International Day of Persons with Disabilities.
10. During COVID 19 college, under the supervision of its parent body provided community services to the people under quarantine in this College premises.

b. Suggestions

1. College should follow the composition of Environmental Committee properly with an inclusion of one Convener/Coordinator.
2. College is requested to formulate the ‘Green Policy’ as early as possible to organize different green initiatives.
3. College must maintain the records, register of tree plantation. Students should be educated to handle the PBR through training, workshop *etc.*, every year and be involved in outreach program for studying PBR in nearby places.
4. Increase the use of LED as much as practicable by replacing the tube light, *etc.*
5. College will maintain ‘Green Budget’ in annual budget.
6. College should have *Divyangian* Friendly toilets.
7. College Environmental Committee will intend to have campus recognition/award/certification from proper authority.

3.0 Statement of Assurance

This audit has been conducted in accordance with the report submitted by the College IQAC and Green 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 REPORT FORMAT

5.0 Audit Framework and detailed findings

The following audit framework is used for conducting Green Audit during the periods of 2023 -'24. The framework also lists the findings and observations for every criterion.

Control objectives	Control(s)	Audit Observations
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse	Reduce the absolute amount of waste that it produces from the Institute & Staff offices.	The College has used some control measures to reduce the absolute amount of waste that it produces from the class rooms, staff offices, inside Campus, <i>etc.</i> <i>Proper Segregation method to be followed for disposing.</i>
	Make full use of all recycling facilities provided by City Municipality and private suppliers, including glass, cans, white, coloured and brown paper, plastic bottles, batteries, print cartridges, cardboard and furniture.	College is managing its all wastes through its own system. Formal Agreement/MoUis signed with Kolkata Municipal Corporationas the initiative has been taken by the parent body.
	Compost, or cause to be composted, all organic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and rooms.	The College uses different bins for disposal of different types of wastes.
	Recycle or safely dispose of white goods, computers and electrical appliances.	College follows a safe disposal methods of E-waste through authorized agent. College has developed IT facility for academic purposes.
	Use reusable resources and containers and avoid unnecessary packaging where possible	College has taken proper initiatives for waste management through “Best out of Waste” program.
	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, National seminars and Conferences, <i>etc.</i> , be disposed through KMC.

Control objectives	Control(s)	Audit Observations
	Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives	The College has limited scope of reuse of items and waste recycling. However, the College has undergone a SUPW Programme and a value added course viz., Art of managing TLM, where a special skill is being developed regarding reuse of items and recycling of waste.
	Dispose all waste, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment	Yes, the College disposes all wastes, whether solid, bathroom wastes or otherwise, and ensures that it is not released directly to the environment.
Reduce energy consumption, especially of energy derived from fossil fuels	Support renewable and carbon-neutral electricity options on any energy-purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.	College follows some 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 carbon-neutral electricity	<i>College is required to install new sources of renewable and carbon-neutral electricity.</i>
	Look into the possibility of on-site micro-generation of renewable electricity.	Collegecampus installed SOLAR PANNELS of 20 Kw capacity under the guidance of the parent body.
	Give preference to the most energy efficient and environmentally sound appliances available, this includes only using energy-saving light bulbs	The College is using LED as much as possible through replacement. However, all of them are regularly instructed to use the electricity rationally.
Effective energy consumption and management practices	Encourage staff, students and conference guests to save energy through visible reminders, incentives and information to increase awareness. This particularly concerns turning off electrical appliances when not in use in both communal and residential rooms	<i>College has to develop a mechanism to reduce the electricity costs.</i> <i>All the stakeholders are to be aware and doing their best and practices to save electricity.</i>
	Ensure that all electronic and electrical equipment's, such as computers, are switched off when not in use, and is generally configured in power saving mode when such option is available	Students and all the members are used to follow this practice. <i>Sensor-based system be adopted.</i>
	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 to some extent.

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 to replace the tube lights with LEDs, etc., as effective alternatives.
Minimize the use of unsustainable transport	Make available information about bicycle and pedestrian routes, public transport services and car share schemes to staff and students.	The College is well connected through Metro rail & bus services; usually, most of them avail bus as well as Metro 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 require any common bus services for all stakeholders.
	Promote car sharing / car pool among the students and faculty members	Some of the students and members of the faculty of the College are using.
Minimize consumption of water	Repair sources of water leakage, such as dripping taps and showers as quickly as possible.	Regular checking and maintenance of pipelines be followed to control the water wastage through sensor-based mechanism/ dedicated personnel.
	Install appliances which reduce water consumption	Practised as much as possible.
	Encourage a decrease in water usage among staff, students and conference guests	All the stakeholders of the College are encouraged in judicious use of water.
	Use an efficient and hygienic water storage mechanism is to minimize the loss of water during storage	College is taking some steps to aware about use of hygienic water, proper storage of water. <i>Sensor-based system be introduced to minimize the loss of water during storage.</i>
	Minimize wastage of water and use of electricity during water filtration process, if used, such as RO filtration process and ensure that the equipment's used for such usage, are regularly serviced, and the wastage of water is not below the industry average for such equipment's used in similar capacity	Inside the Campus building, there are existing 3 Aqua guards installed in the strategic location for the students and other members, and 1 Water Purifier and Cooler.
	Install Water recycling mechanism, such as rain water harvesting system	Rainwater be used for groundwater recharging. However the College has just started to implement the same, though it is at preliminary level. <i>Rainwater conservation and uses be developed through proper ways.</i>

Control objectives	Control(s)	Audit Observations
Minimize the risk of environmental health	Ensure that all cleaning products used by the University/Institute staff have a minimal detrimental impact on the environment, i.e., are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations	Negligible amount of cleaning/washing liquids are used in the College. <i>College may maintain 'Green Budget' for the said purposes.</i>
	Minimize the use of fertilizers and pesticides in the University/Institutional gardens, opting for the use of compost produced on site wherever possible	College may involve the students of different department in maintaining of gardens. <i>Vertical / Hanging garden proposal be initiated.</i>
	Dispose the chemical waste generated from the laboratories in a scientific manner	Disposal of solid wastes are managed. <i>Drainage of liquid wastes is not concerned.</i>
	Reduce the practice of burning plastic and other materials that emit the harmful gas on burning is prevented in the campus.	No such burning.
Maintenance of green campus	Ensure the green environment	College is positive about maintenance of green-clean environment. College conducts 'Tree plantation programmes' in different occasions on year-wise. <i>Plantation program outside the Campus be initiated</i>
	Establish a Garden in the campus	The college has garden including the garden of the medicinal plants. <i>Students should be trained to handle People Biodiversity Register.</i>
	Encourage the faculties and students to plant trees in the garden	<i>College has no such scope for plantation of big trees inside the Campus.</i>
	Reviews periodically the list of trees planted in the garden periodically	<i>Periodical maintenance of gardens/plants be followed through student members.</i>
Ensure that environmental awareness is created	Conduct environmental awareness workshops as a part of the program.	College celebrates different environmental awareness programmes like World Environment Day, Earth Day, etc.
	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	College conducts environmental awareness programmesto 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	Syllabus comprises Optional B.Ed.SEM-IV Paper on “Environment & Population Education,” Inclusive Education, Gender studies and Dissertation papers.
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	College has no proposal of new construction. <i>In case of new constructions, green standards be followed in near future.</i>
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 constituted Nature Club Committee, Environmental Committee, Green Committee. <i>Proper College Environmental Committee under the Chairperson of Principal be constituted. may be framed.</i>
	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	<i>College Green Committee is further requested to constitute one Biodiversity Committee for better maintenance of biodiversity.</i>
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 requested to propose one Coordinator.
	Ensure that the Environmental Committee will review the Environmental Policy on an annual basis, and will monitor progress and set measurable targets wherever possible	<i>College campus may be declared as ‘Plastic Free Zone’, in addition to practicing the motto: ‘say No to Plastic’.</i>
	Ensure that the Environmental Policy is enforced regardless of whether its requirements exceed the mandate of the law	Beautification and cleanliness are well maintained. <i>The Green Policy of the College be formulated.</i>
	Require that every staff and student member recognizes their responsibility to ensure that the commitments in the Environmental Policy are properly put into practice	Members of the College Green Committee are active.
	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 04 th of January 2025 and is based on the report of the year 2023-‘24.

6.0 Recommendations

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

Criteria	Recommendations
Publication of Audit Report	Resolutions of the College “Green Committee” along with audit report be published in the College website.
Maximize the proportion of waste that is recycled & minimize the quantity of non-recyclable refuse	<ol style="list-style-type: none"> 1. The College should go for ISO 9001:2015 Certification. 2. College may go for partnership with Kolkata Municipal Corporation in sharing some outreach programs. 3. Composting system be developed for degradable/bio-wastes in a proper way.
Reduce energy consumption, especially of energy derived from fossil fuels	1. Installation of number of control switch, MCP for monitoring of energy and sensor-based system for water consumption building-wise be operated through the involvement of student members.
Maintenance of Campus and biodiversity	<ol style="list-style-type: none"> 1. Students be aware of importance of maintenance of records of tree plantation, Medicinal Gardens and PBR. Proper training, workshop on maintenance of PBR for local areas and different locations as an outreach program be initiated. 2. Choice-plantation, fruit-plantation, artificial nesting, <i>etc.</i>, be followed to maintain attract birds and other animals outside the campus; artificial nesting on trees may be adopted. 4. Award/Certification from authentic body as Green & Clean Campus
Proper cleaning of water storage Tanks	1. Sensor-based system be maintained for checking of wastage of tank water.
Project-based learning on Environment related subjects	<ol style="list-style-type: none"> 1. Proper advertisement and propagation of innovative materials from “Best out of Waste” be initiated. 2. Value added course on ‘Art of Managing TLM’ be promoted as “Hands-on-training programmes on Reuse & Recyclable” Scheme.

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 Green 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 proposal of 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 Committee Report of the institute was reviewed. Other relevant standards, Green audit framework, etc., were also considered.

Interviews

Interviews were conducted with the Principal, IQAC Coordinator, Coordinator of Green Committee and also members of the Committee.

Physical Inspection

Physical inspection was made on 04th of January 2025 and the report was prepared based on the physical verification, 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: 04/01/2025

Place: Sammilani Teachers' Training College
Barakhola, Mukundapur, Kolkata



Dipanjita Dasgupta Ghosh
04/01/2025

Signed by
College Principal with Seal

Principal
Sammilani Teachers' Training College
Barakhola, Krishakpaliy
Mukundapur, Kolkata-700099

Dr Apurba Ratan Ghosh
4/1/25

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

Professor & Head (Retd.)
Environmental Science
The University of Burdwan
Burdwan

Dr Asok Kanti Sanyal
4/1/25

Dr Asok Kanti Sanyal
Ex-Chairman
West Bengal Biodiversity Board
Kolkata

Dr. Asok Kanti Sanyal
Chairman (Retd.)
West Bengal Biodiversity Board
(Dept. of Environmental, Govt. of West Bengal)
NABET - QCI Accreditation