OF Rajganj College Jalpaiguri, WEST BENGAL

2022-23



Prepared by Dr Indranil Ghosh

Environmental Auditor

Gertificate of Registration

This is to Certify That Environmental Management System of

RAJGANJ COLLEGE

P.O. RAJGANJ, JALPAIGURI - 735134, WEST BENGAL, INDIA.

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope :

PROVIDING EDUCATION SERVICES.

24MEEPR54 Certificate No

: 09/02/2024 Issuance Date Initial Registration Date: 09/02/2024

: 08/02/2027 Date of Expiry

2nd Surve. Due: 09/01/2026 : 09/01/2025 1st Surve. Due









DIRECTOR

Magnitude Management Services Pvt. Ltd.

CERTIFICATE

This is to certify that Rajganj College, Jalpaiguri has conducted detailed Environmental Green Audit for 2022-23 for their campus and submitted necessary data and credentials for scrutiny. The activity and measure carried out by the college and was found satisfactory. The efforts taken by the students, faculty members and the college authority towards Environment and Sustainability is Highly Appreciated and commendable.

Dr Indranit Ghosh

Environmental Auditor

1.0 Introduction

Green Audit can be defined as a systematic, documented, periodic and objective review by regulated entities of facility operations and practices related to meeting the environmental requirements. The "Green Audit" aims to analyze environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment as whole. Through Green Audit, one gets a direction as to how to improve the condition of environment. There are various factors that have determined the growth of carrying out Green Audit.

There is a relationship between Green Audit and Sustainable Development of any organization. The primary need for achieving the sustainable development of any organization is to determine the Green Audit policy, Green Audit Framework, Accurate implementation, and result analysis of it. Strong Green Audit process can help to achieve the sustainability. Green Audit framework helps to achieve the goal set by an organization. Green Audit is linked to Sustainable development process. Green Audit and sustainable development process help to reduce the wastage and associated cost as well as increases the product quality.

Green audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India which declares the institutions as Grade A, B or C according to the scores assigned during the accreditation.

1.1 About the College

Rajganj College is a Government Aided general degree college offering under graduate courses (Honours and General) in various subjects. It is affiliated to the university of North Bengal and is enrolled under sections 12 (B) and 2(f) of UGC Act 1956.

The College was established in 2009 in the idyllic location of Rajganj, Jalpaiguri, Rajganj is an area that lays claim to a rich and ancient cultural history. It derives its famed diversity from the various communities of people that have populated the region over various phases of history. The area is surrounded by the rivers Teesta, Talma and Korotoa, the folk culture of Rajganj has gained an entirely different dimension. To realise the dreams of higher education of the students of this area, Rajganj College was set up on 9th September, 2009, on the banks of the historical and mythological River Korotoa, which finds mention even in our ancient epics.

The College is situated at Totaigach, P.O. & P.S. Rajganj, Dist. Jalpaiguri, PIN-735134, 2 km. away from National Highway no.31D. The College is located in a calm and beautiful area with a glorious natural beauty.

The college is located on a beautiful campus of 10.11 Acre. The campus is located 23 km away from the

2333

8

3

1

0

3

3

9

D

0

Jalpaiguri Town (District Head quater). The Railway Junction New Jalpaiguri is 21 km while the nearest railway station Raninagar is 9 km and Bagdogra airport is 35 KM away from here respectively. The campus is surrounded by greenery and beautiful Landscapes. This Eco region has a wide range of habitat types, evergreen and deciduous forests, thorn forests, and steppes corresponding to different humidity. At low altitudes, this region is hot and humid during summer, and temperatures typically reach 40°C during the late dry season. Annual monsoon floods deposit sediment from rivers that meander across grasslands. Alluvial areas return to tall grass prairie at the end of the next monsoon, and low-lying areas are inundated for only a few days to recharge with annual nutrient loads.

The main road is around 150 meter away from the college buildings. There are two buildings in the campus. Both the buildings contain three floors. The total built up area is 41988 Sq ft. The "Teesta-Agro Industries" is located in the 1.5 km radius of the college campus.

The college has only one shift and starts from 10:45 am and closes at 4:45 pm. Total 2500 (approx) students are studying in five different under graduate programs viz BA(Hons) and B.A.(Gen).

The college is desirous to adopt the "Green Campus" system for environmental conservation and sustainability. There are three main pillars i.e.

- Zero environmental foot print
- Positive impact on occupational health performance
- 100% graduates demonstrating environmental literacy.

The goal is to reduce CO2 emission, energy and water use, while creating an atmosphere where students can learn and be healthy. The college administration works on the several factors of including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity.

1.2 Objectives of the Study

The main objective of the green audit is to promote the Environment Management and conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- Verifying compliance: Verifying compliance with standards or best available techniques.
- 2. Identifying problems: Detecting any leakage, spills or other such problems with the operations and processes.
- 3. Formulating environmental policy: Formulating the organization's environmental policy if there is no existing policy.
- 4. Measuring environmental impact: Measuring the environmental impact of each and every process and operation on the air, water, soil, worker health and safety and society at large.
- 5. Measuring performance: Measuring the environmental performance of an organization against best

practices.

- Confirming environmental management system effectiveness: Giving an indication of the
 effectiveness of the system and suggestions for improvement.
- 7. Providing a database: Providing a database for corrective action and future plans.
- Developing the organization's environmental strategy: Enabling management to develop its
 environmental strategy for moving towards a greener corporate and performance culture.
- Communication: Communicating its environmental performance to its stakeholder's through reporting which will enhance the image of the organization.

1.3 General steps of Audit

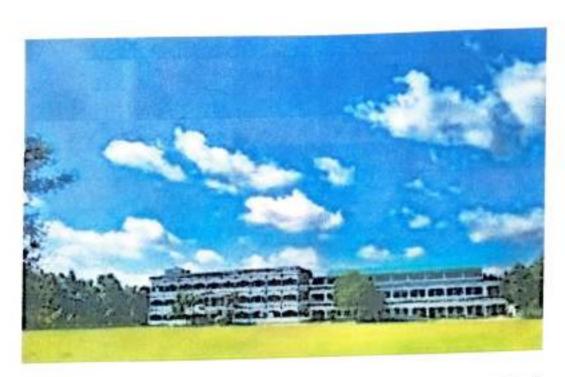
- 1. Systematic and comprehensive data collection
- 2. Documentation with physical evidences
- 3. Independent periodic evaluation with regulatory requirements and appropriate standards
- 4. Systematic and comprehensive improvement and management of existing system.





A View of Rajganj

Tonkly





A View of Rajganj College, Jalpaiguri

1.4 The audit process

1.4.1 Pre-audit activities

The pre-audit activities include the following:

- 1. The sites / area /division that are to be audited need to be determined and selected.
- 2. The Audit Team was informed on the date of the audit which enabled them to adjust and become used to the concept.
- The audit scopes were identified. Audit Team was consulted when establishing the scope.
- 4. The audit plan was designed in such a way that it accommodated changes based on information gathered during the audit and effective use of resources.
- Audit team and assignment of responsibility were established.
- 6. The required working papers were collected. This facilitated the investigations of audit team on the sites.
- 7. The background information on the facility including the facility organization, layoutand processes, and the relevant regulations and standards, were collected.
- 8. The background information on the site's historical uses, and the location of soil and ground water contamination were collected
- The pre-audit questionnaire was informed to auditee.

Onsite audit activities 1.4.2

The onsite audit includes:

- 1. The opening meeting is the first step between the audit team and college authority. In this meeting the purpose of audit, the procedure and the time schedule were discussed.
- Site inspection is the second step for onsite activity. In this step the audit team discovered matters which are important to the audit but which were not identified at the planning stage.
- 3. Onsite phase of the audit developed a working understanding of how the facility manages the activities that influence the environment and how any EMS, if there is one, works.
- 4. Assessed strengths and weaknesses, controls and risks associated with their failure were established
- Gathering audit evidence ie, collecting data and information using audit protocol.
- Communicated with the Audit Team to obtain most information.
- Evaluated the audit evidence against the objectives established for the audit.
- 8. An exit meeting to explain the audit findings.

1.5 Methodology

In order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarize the present status of environment management in the campus:

- Water management
- o Energy Conservation
- Waste management
- E-waste management
- Green area management
- Green Practices



2.0 Water Audit

Evaluating the facility of raw water intake and determining the facilities for water treatment. Water harvesting is the best technique that can be adopted by simply storing water and using it at the time of scarcity.

2.1 Water Use

This indicator addresses water consumption, water sources, irrigation, storm water, appliances and fixtures. A water audit is an on-site survey and assessment to determine the water use and hence improving the efficiency of its use.

2.1.1 Observations

The study observed that natural ground water is major source of supply of water. Water is used for drinking purpose, toilets, laboratory and gardening. During the survey, no loss of water is observed, neither by any leakages nor by over flow of water from overhead tanks. However, during Monsoon season very less amount of overflow takes place through drains. The data collected from all the departments is examined and verified. On an average the total use of water in the college is 2000 L/day during the monsoon and 1000 during post monsoon, which include domestic purposes, gardening and for different laboratories.

The college has taken initiatives for rain water harvesting. The water for rain water is used for mainly gardening purposes and floor cleaning purposes.

2.1.2 Recommendations

- Need of monitoring, controlling overflow is essential and periodically supervision drills should be arranged. In campus small scale/medium scale/large scale reuse and recycle of water system is necessary.
- Minimize wastage of water and use of electricity during water filtration process, if used.
- Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations.

Tooks

2.2Audit Framework and detailed findings: Water management

Control objective	Control(s)	Audit Observation
	Repair sources of water leakage, such as dripping taps and showers as quickly as possible.	Regular checking and maintenance of pipelines are done to control water wastage.
	Install appliances which reduce water consumption	Practiced as much as possible.
	Encourage a decrease in water usage among staff, students and conference guests	College does encourage a decrease in water usage among staff, students and conference guests. The water consumption is minimal.
Minimize consumption of water.	Purchase the most efficient washing machines and dishwashers available which have an economy setting as default	These are not required by the college.
	Use an efficient and hygienic water storage mechanism to minimize the loss of water during storage	The college cleans the reservoirs in regular interval: (twice a year).
	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	The college uses RO to filtrate the water.
	Install Water recycling mechanism, such as rain water harvesting system	The Rain water Harvesting system is under process





Water Storage tank





Source of Purified drinking water

TENS

3.0 Energy Audit

It deals with the energy conservation and methods to reduce the consumption and the related pollution.

3.1 Energy Conservation

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliance, natural gas and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

3.1.1 Observations

Total energy consumption is determined as 23000 KWH/Year (approx.) by major energy consuming equipment. All the departments and common facility centres are equipped with LEDlamps. Approximately 56 LED bulbs are counted during survey. The college has one Air conditioning machine. Besides this, photovoltaic cells are also installed in the campus as an alternate renewable source of energy. Ten Solar panel street light are installed in the campus. Equipment like Computers (16 nos with TFT monitors and 03 laptops) and printers (06) are used with power saving mode. The college conducts the switch off drills at regular intervals. In laboratories like Geography, the switch is shut down after occupancy time and is one of the green practices for energy conservation.

3.1.2 Recommendations

- 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.
- Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity.
- Installation of more LED lamps instead of CFL.

7 Jaks

3.2 Audit Framework and detailed findings: Energy management

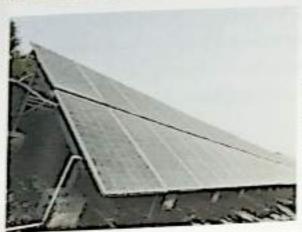
Control objective	Control(s)	Audit Observation
	Support renewable and carbon-neutral electricity options on any energy-purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.	No, the college does not have any choice of 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.
duce energy consumption, ecially of energy derived m fossil fuels	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity	The College have no choice other than WEST BENGAL STATE ELECTRICHTY DISTRIBUTION COMPANY LIMITED. The company is PSU of govt of West Bengal. The company which invest Roof top Solar PV systems.
	Look in to the possibility of on- site micro-generation of renewable electricity.	The College has 1 0 solar panel street light renewable electricity.
	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 practicable.
	Provide energy efficient heating systems, with adjustable controls for individual heating appliances wherever possible, and ensure that comprehensible instructions are available to staff and students on the use of heating controls.	No Room Heater uses in winter season.

Terly

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	controlled by turning off the appliances when not required. Visible reminders are placed above every switch to turn off lights when not in use.
Monitor and understand the importance of different sources of college energy consumption, and set appropriate and measurable targets for a reduction in certain areas of consumption and/or in the overall consumption of energy.	Disconnect the supply of electricity when not required (Specially during the month long winter vacation).
Conduct switch off drills at regular intervals	College conducts switch off drills at regular intervals.
Ensures 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	All electronic and electrical equipment are switched off when not in use. Equipment are configured in power saving mode when such option is available.
If there are equipment's running on standby mode, reduce the energy consumption on standby mode or minimize the running of equipment's on standby mode	Equipment running on standby mode.

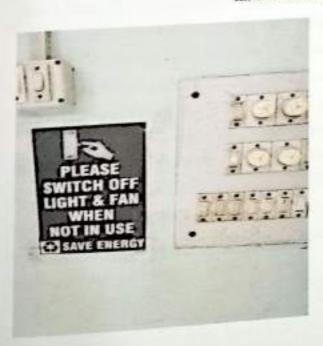


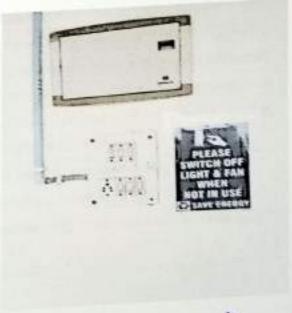






Installation of Solar PV cell





Initiative to reduce wastage of electricity

neglis

4.0 Waste Management Audit

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc. and recycling. Furthermore, solid waste often includes wasted material resources that could otherwise be channeled into better service through recycling, repair, and reuse. Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threat to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus. The different solid wastes collected are as mentioned above.

4.1 Waste Conservation

Good waste management does more than just clean up the environment – it can also provide diverse benefits for communities that engage in waste management activities.

The broader challenge towards the waste management is to develop local/institutional waste management strategies and to embed local processes to ensure sustainability.

4.1.1 Observations

The total solid waste collected in the campus is 16 Kg/day. Waste generation from tree droppings and lawn management is a major solid waste generated in the campus. The waste is segregated at source by providing separate recycle bins for Bio-degradable (Green colored bins)—and Plastic waste (Blue colored bins). Single sided used papers reused for writing and printing in offices and all departments. Unimportant and non-confidential reports/ papers are sent for pulping and recycling after completion of their preservation period. Very less plastic waste (0.1Kg/day) is generated by some departments, office, garden etc Metal waste is stored and given to authorized scrap agents for further processing. Few glass bottles are reused. The college has practice of paperless office work in administration as much as possible and as a result there is less carbon emission fromprinters, no carbon copy of bills, filing of cartridge outside the office (if necessary) is observed.

Solid waste from canteen like food wastes are stored in bins and later deposited in pits; these wastes and vegetable wastes are collected into pits for making compost. College has two pits measuring 36m³ each, this compost is utilized in college gardens; liquid wastes are disposed carefully through well drainage system.

Terlis

4.1.2 Recommendations

- Reduce the absolute amount of waste that is produced from college staff offices.
- Make full use of all recycling facilities provided by the Sukhani gram panchayat and private suppliers, including glass, cans, plastic bottles, batteries, print cartridges, cardboard and furniture.
- Provide sufficient, accessible and well-publicized collection points for recyclable waste, with responsibility for recycling clearly allocated.
- · Single sided papers to be reused for writing and photocopy.

4.2 Audit Framework and detailed findings: Waste Management

Control objective	Control(s)	Audit Observation
	Reduce the absolute amount of waste that is produced from college staff offices.	The college has to a certain level controlled the amount of waste that it produces from staff offices.
	Make full use of all recycling facilities provided by Municipality and private suppliers, including glass, cans, plastic bottles, batteries, printcartridge, cardboard and furniture.	Yes. College uses the facilities provided by the local authority to recycle the wastes.
Maximizethe proportionof waste that isrecycled & minimize the quantity of non-recyclable refuse	Compost, or cause to be composted, allorganic waste, green waste and un-recycled cardboard produced in or collected from kitchens, gardens, offices and rooms.	College has wastecomposting facility.
	Recycle or safely dispose of white goods, computers and electrical appliances.	Safe disposal through authorized agents for computers and electrical wastes.
	Use reusable resources and containers and avoid unnecessary packaging where possible	College tries to use reusable resources and avoid unnecessary packaging where possible
	Always purchase recycled resourceswhere these are both suitable and available.	College tries to purchase recycled resources where these are both suitable and available.

2 strate

Provide sufficient, accessible and well-publicized collection points for recyclable waste, with responsibility for recycling clearly allocated	Yes. College has sufficient, accessible and well-publicized collection points for recyclable waste, with responsibility for recycling clearly allocated
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	Yes! College arranged the events withleast production of waste.
Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives	Yes!, the college has promoted reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives
Promote reuse of items and waste recycling among staff, students and conference guests through training, posters and incentives	Yes, the college dispose all waste, whether solid or otherwise, in a scientific manner and ensure that it is not released directly to the environment.
Adoption of paperless office to reduce waste.	Yes! College has implemented paper less office partially.



5.0 E-waste Management Audit

E-waste can be described as electronic equipment that is near or at the end of its useful life. E-waste makes up about 5% of all municipal solid waste worldwide but is much more hazardous than other waste because electronic components contain cadmium, lead, mercury, and Polychlorinated biphenyls (PCBs) that can damage human health and the environment.

5.1 E-waste Management System

Electronic waste or e-waste is generated when electronic and electrical equipment become unfit for their originally intended use or have crossed the expiry date. Computers, servers, mainframes, monitors, compact discs (CDs), printers, scanners, copiers, calculators, fax machines, battery cells, cellular phones, transceivers, TVs, iPods, medical apparatus, washing machines, refrigerators, and air conditioners are examples of e-waste (when unfit for use).

E-waste typically consists of metals, plastics, cathode ray tubes (CRTs), printed circuit boards, cables, and so on. Valuable metals such as copper, silver, gold, and platinum could be recovered from e-wastes, if they are scientifically processed. The presence of toxic substances such as liquid crystal, lithium, mercury, nickel, polychlorinated biphenyls (PCBs), selenium, arsenic, barium, brominated flame retardants, cadmium, chrome, cobalt, copper, and lead, makes it very hazardous, if e-waste is dismantled and processed in a crude manner with rudimentary techniques. E-waste poses a huge risk to humans, animals, and the environment. The presence of heavy metals and highly toxic substances such as mercury, lead, beryllium, and cadmium pose a significant threat to the environment even in minute quantities.

Consumers are the key to better management of e-waste. Initiatives such as Extended Producer Responsibility (EPR); Design for Environment (DfE); Reduce, Reuse, Recycle (3Rs), technology platform for linking the market facilitating a circular economy aim to encourage consumers to correctly dispose their e-waste, with increased reuse and recycling rates, and adopt sustainable consumer habits.

5.1.1 Observation

E-waste generated in the college is very less. It is handled, treated and disposed in scientific way. There are 16 computers (with TFT monitors), 06 printers and 02 photo copier are available in the college. The college generates some e-waste like chips, bulbs, circuit boards, mother boards, computers, batteries, relays, and switches. The non-working computers, spare parts and other non-working electrical equipment are stored in separate places. The college has intention to adopt the Buyback policy. E-Waste handled is 50 kg (approx) per year and disposed off through authorized vendors.

5.1.2 Recommendations

- · Recycle or cafety disperse of whose gircle comprises and decided approximate
- Use remable research and containers and most mercurary provinging about provide. Always provides accepted research, where have an intermediate available.

5.2 Audit Framework and detailed findings: 9. Water Consequences

Control objective	Controlley	Audia (Acceptations
Reduce the E wasts generation	Adeption of Everaded Produces Responsibility (PPR), Desired for Emisconment (PR); Reduce, Respect (PR). The EPR is an environment protection strategy that makes the producer responsible for the entire life syste of the produce especially for take tack recycle and final disposal of the produce.	College in secreptule pro- lee à more communicat

7 mls

6.0 Green area Management Audit

This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy is enacted, enforced and reviewed using various environmental awareness programs.

6.1 Green Area

Green spaces are important reservoirs of biodiversity, providing resources, ecosystem services and habitats for species of interest, improving functional and structural connectivity at the urban level.

6.1.1 Observations

There are 9.28 acre land is open while 70% of it is available as green area. Campus is located in the vicinity of different types of species of plants. The campus is enriched by different bio diversities like bryophytes, pteridophytes, arthropod, Mollusca and reptiles. Various tree plantation programs are being organized at college campus. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among local people. The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species. There is garden which is maintained by the gardener. The NSS unit of the college and the members of Eco club of the college also look after the college greenery. The college has taxonomically identified all the plants available in the campus.

6.1.2 Recommendations

- Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
- Create awareness of environmental sustainability and take action to ensure environmental sustainability.
- Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.

6.2 Audit Framework and detailed findings: Green Area Management

Control objective	Control(s)	Audit Observation
Development of green area to compensate CO ₃ .	Proper Land use pattern to develop green area.	No. There is no proper land use policy of the college.
	Proper Taxonomicalidentification of plants in the campus.	The plants inside the campusis identified and marked properly.
	Conduct Environment Awareness program.	Environment Awareness program is regularly organized by the college authority.

6.3 Taxonomical identification of plants in the campus

Taxonomical identification of Plants in the campus

SI.	Common Name	Botanical Name	Location	Qty
01	Krishnachura	Delonix regia	Centre	01
02	Jamun	Syzygium cumini	East	01
03	Aakashmni	Acacia auriculiformis	East, West, North	21 5
04	Bandar Lathi	Cassia Fistula	Centre	01
05	Kul	ZiZiphus Mauritiana	South	01
06	Bottle Plam Tree	Hyophorbe lagenicaulis	East	15
07	Devdaru	Polyaithia Longifolia	East,North	03
80	Jarul	Lagerstroemia Speciosa	East, West, North	05
09	Kagajful	Bougainvillea Spectabilis wild	Centre	03
10	Amla	Phyllanthus Emblica	West	20
11	Fox tail plam Tree	Wodyetia Bifurcata	East, Centre	02
12	Musanda	Mussaenda Erythrophylla	Centre	02
13	Chikrashi	Chukrasia Tabularis	East, Centre	10
14	Bel	Aegle Marmelos	East	01
15	Pine	Pinus	West	01
16	Kanchan	Bauhinia Variegate	East, West	05
17	Rakta Karovi	Nerium Oleannder	East	01
18	Bokal	Mimusops	West	01
19	Litchi	Litchi Chinensis	West	01
20	Champa/Cha npa	Magnolia Champaca	West	02
21	Betel nut Tree	Areca Catechu	North	60
22	Segun	Tectona grandis		05

Textis







Tells

Scientific conservation of Biodiversity in the campus

7.0 Green Practices

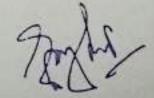
"Going green" means to pursue knowledge and practices that can lead to more environmentally friendly and ecologically responsible decisions and lifestyles, which can help protect the environment and sustain its natural resources for current and future generations.

Green Practice includes

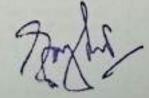
- 1. Green purchasing
- 2. Green transportation
- 3. Campaign for Go Green
- 4. Green Policy

7.1 Green Practice Audit

Control objective	Control(s)	Audit Observation
Ensure that improvements, purchases and developments are environmentally sound	Seek and act upon professional advice in order to minimize the adverse environmental impact of any new developments and exceed government regulatory requirements. This includes efficient heating and water systems, appropriate space for recycling, and the use of recycled and/or sustainable building materials where possible	The college has contacted and acts upon professional advice in order to minimize the adverse environmental impact of any new developments and Government regulatory requirements.
	Purchase efficient and environmentally sound appliances	College is positive about increasing greenery by planting in front of the college and maintaining potted plants scientifically as much as possible.
	Purchase food that has been produced and delivered with minimal impact on the environment, this includes buying locally produced, organic and free range food wherever possible	No, college does not purchase food stuff as the canteen facility is available from 9 am to 3 pm on all working days.



Minimize the use of unsustainable transport	Make available information about bicycle and pedestrian routes public transport services and cat share schemes to staff and students.	connected with good surface transport. Faculty members,
	Reduce the proportion of travel on College business carried out in private transport and eliminate unnecessary and inefficient use of college vehicles	uses hired vehicle whenever it is required. Most of the time use
	Promote car sharing / car pool among the students and faculty members	Both students and faculty members use either public transport and very less own vehicle
pollutants	Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations	Negligible amount of washing liquids are used in the college and all the toilet cleaners are Eco friendly.
	Reduce the practice of burning Plastic and other material that emits harmful gas on burning is prevented in the campus.	The college is plastic free zone.
	Establish a Garden in the campus	The college has already maintained garden of 325 sqm. 22 types of plants are there.
	Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site wherever possible.	Negligible amount of fertilizers and pesticides are used in the college.
5	Encourage the faculties and students to plant trees in the garden.	Faculty members and students know the importance of the tree plantation.
1	Reviews periodically the list of rees planted in the garden.	Such review is conducted on frequent basis.
(a	Conduct environmental	The College regularly organizes camps, seminar, and workshops.



	Conduct events such as plant trees to spread environmental awareness among the students	The different groups of College students usually do that.
	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	Seminars and awareness programmes are conducted on Nature and natural resources, wildlife for the Conservation of Biodiversity.
course that environmental	Reduce the rate of contributes to the depletion and degradation of natural resources	College does not directly or indirectly involve in depletion and degradation of natural resources.
Ensure that environmental awareness is created	Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service	As per UGC guidelines the subject Environmental Studies is introduced in the curriculum of all the streams. Under this curriculum, students have to submit a project report based on the field study and the environmental data they have collected. The total marks allotted to this project/ fields study report is 15. Students appear for the written test where 80 marks are allotted.
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.	The college building is less than 10 years old and follows the standard architecture in practice.
Ensure that the Environmental Policy is enacted, enforced and reviewed	Establish a College 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.	The college has Eco Club which looks after the Environment Protection and Campus Beautification. The club also regularly monitors and advocates for environment protection measures and development of green area.
	Ensure that on the Nature Club there will be appropriate representatives of the relevant college departments and authorities – such as catering, gardening, maintenance, cleaning and finance	The college has its Nature Club (Eco Club) comprising the staff and students of different departments.
	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	The college has no such Green Officer. But one faculty member is assigned as Convener of Eco Club.

Ensure that the Environmental Committee will review the Environmental Policy on an annual basis, and will monitor progress and set measurable targets wherever possible	Environmental Protection Committee review the policy periodically.
Ensure that the Environmental Policy is enforced regardless of whether its requirements exceed the mandate of the law	Environmental policy of the college: "No to water & Electricity misuse; Optimal waste management".
Require that every staff and student member recognizes their responsibility to ensure that the commitments in the Environmental Policy are properly put into practice	Every staff and student member recognizes their responsibility to ensure their commitments to the Environment.
Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings	Green audit is conducted annually.

7.1.2 Recommendations

- The Environmental Protection Committee should be empowered to look after all
 the green practices in the college
- More Seminar/ workshop should be organized to create the awareness of Environmental conservation among the students and other stake holders.

Tender

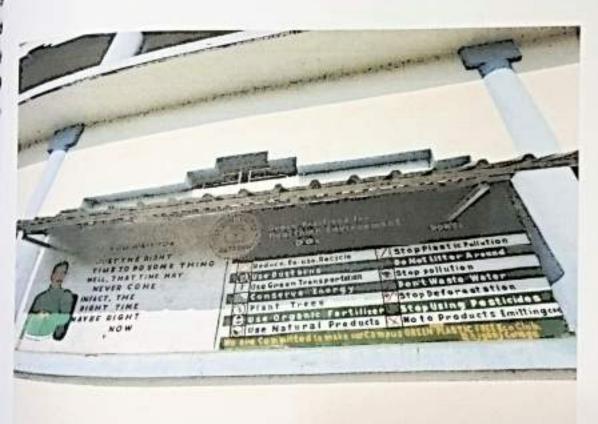




Texhi







Green Practices of the College

s@ Conclusion

containing the fact that the invaluation is predominantly an under-graduate college, there is applicable processors for excessors and construction leads by faculty and modern. The excessors and applicable mock systems are necessarily forming, excessorated awareness programmes included by the abstraction decimal form the company is going given. Few recommendations are added to curly the memory of autit communication are added to curly the memory of autit communication are added to curly the memory of autit communication and added to curly the memory of autit communication and added to curly the memory of the communication and added to curly the memory of autit of Green Company and their measurable conferences and community development.

to part of green made of the category, we after carried out the environmental measuring of category which intends discovering, because level, and Vermindon and Indian for quality of the class room. It was accord that (forestances and Vermindon is reference considering means) light and air velocity present, and took to be compact to below 50 dill at day time which is well written the land.

Tols

Appendix 1: Air Quality

10252

Desire location University \$2.9 Estation Humidaly \$2.9 January 26.5482390	raity of North Bengul, Jak 4 % Longitude 88.69529		Temperature 15.43 °C 2024-02-01, 17 hours
Parliame.	Amage	Minimum	Maximum:
PM 2.5	29.70 µg/m³	9.28 µg/m²	63.20 µg/m³
PM 10	\$4.01 µg/m³	20.46 µg/m³	165.45 µg/m³
Semperature	1661 °C	10.08 °C	2785*C
Humidity	8338%	46.87%	98.94%

Declared Med Brood publics Control Board has developed a sense based as policion Membering naturals. The sense are projectionly collected against the reference greats resolves and are being used for as quality management as as sense. The data represent broad broads of an publicant of the founds, there data are being used for the purpose a sense. But you not let be recent for regulatory intent.

24-Hou	rty NAAQS
PM 2.5 (ug/m3)	PM 10 (ug/m3)
60	100

Terder

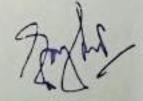
Prake



Very Unhealthy

Health effects will be immediately felt by sensitive groups and should avoid outdoor activity. Healthy individuals are likely to experience difficulty breathing and throat eritation, consider staying indoors and

		SMAINI MORE AS:
_		On priume tobs
PM ₂₅ Very Unhealthy	Fine Particulate Matter L ² are inhalable pollutant particles with a diameter less than 2.5 micrometers that can enter the lungs and bloodstream, resulting in serious health issues. The most severe more	186 E ₁₈ int
PM _o Unhealthy	Particulate Matter L ^a are inhalable pollutant particles with a diameter less than 10 micrometers. Particles that are larger than 2.5 micrometers can be deposited in arways, resulting in health more.	144 50 µg/m²
NO ₂	Breathing in high levels of Nitrogen Dioxide L ² increases the risk of respiratory problems. Coughing and difficulty breathing are common and more serious health issues such as respiratory more.	25 0 µg/m²
O _±	Ground-level Ozone L3 can aggravate existing respiratory diseases and also lead to throat irritation, headaches, and chest pain.	24 65 pg =1
SO:	Exposure to Sulfur Dioxide can lead to throat and eye imitation and aggravate asthma as well as chronic bronchitis.	14 4 ₂₄ %
CO Excellent	Carbon Monoxide is a colorless and odorless gas and when inhaled at high levels can cause headache, nausea, dizzness, and vomiting Repeated long-term exposure can lead to heart disease.	4 443 µg/m³



please

Appendix 2: Noise Quality

Noise Leve	el 44.48 db(A)			
Device Unive	ersity of North Bengal, Ja	Ipaiguri		
70**	alguri			
Timestamp February 1st 2024, 5:56 pm				
Parameter		Value		
LAS		44.23		
LCS.		52.47		
LZs		57.05		
LACOL	- 1	14.48		
LCeqt		51.87		
tzeqt	- CHANGE OF STREET STREET, STR	51.87		
LApeakt		57.61		
(Cpeakt		58.63		
LZpeakt		72.67		
	National Noise	Standard		
Noise Limit	DAY (6 AM - 10 PM) in dB(A)	NIGHT (10 PM - 6 AM) in dB(A)		
1		70		
Industrial	75	55		
Commercial	65	The state of the s		
CONTRACTOR OF THE PARTY OF THE	55	45		
Residential		40		
Silence	50	· · · · · · · · · · · · · · · · · · ·		
C MANUFACTURE OF THE PARTY OF T		The ball of the second		

garley.

الر الر الر

Appendix 3: Water Quality Parameter

parameter	Bureau of Indian Standards (BIS 2009) acceptable limit	WHO standard 2011 desirable limit	
рН	6.5 - 8.5	7.0 - 8.5	
TDS	500	600	
Alkalinity	200	300	
DO DO	5	NA	
EC	750	750	
Salinity	100 PPT	100 PPT	
Turbidity	1 NTU	1 NTU	
900 S.U.	200	50	
Na*	30	30	
Mg ²⁺	75	100	
Ca ²⁺	1	1.5	
F-	250	250	
Cl		50	
NO ₃ ²	50	250	
50,2-	200		

NA - Not Available

Texter