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GOVERNMENT OF WEST BENGAL

*Office of the Principal*

**GOVERNMENT GENERAL DEGREE COLLEGE AT PEDONG**

DIST. KALIMPONG – 734311

Website: [www.pedongcollege.in](http://www.pedongcollege.in)

E-Mail: [pedong.govt.college@gmail.com](mailto:pedong.govt.college@gmail.com)

## GREEN AUDIT

### GOVERNMENT GENERAL DEGREE COLLEGE AT PEDONG



CO-ORDINATOR  
IQAC  
GOVT. GENERAL DEGREE COLLEGE AT PEDONG

Officer-in-Charge  
Government General Degree College  
at Pedong



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5. Green Campus Management
6. Routine Green Practices of the College
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8. Summary of Findings and Recommendations

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## INTRODUCTION:

### 1. Background:

Green audit in the context of an institution of higher education is an official examination of the effects an institution has, both positive and negative, on the environment. Such an audit helps to improve the existing practices of an institution with the aim of reducing the adverse effects on the environment, and foster in the institution environmental sensitivity and environment friendly behaviour because a clean and healthy environment aids effective learning and provides a conducive learning environment. Hence, academic institutions endeavour to preserve the environment within the campus through various practices such as promotion of energy savings, recycling of waste, water use reduction, water harvesting etc. Green audit visualizes the documentation of all such activities taking stock of the infrastructure of the college, their academic and managerial policies and future plans. The present report is a report on the

Green practices of the Government General Degree College, Pedong, Kalimpong. Government General Degree College at Pedong is a full government coeducational institution, and was established in the year 2015. Since its inception, the institution has worked hard to provide higher education to the economically challenged students residing in the rural areas of Pedong. The institution is located 22 kms away the main town of Kalimpong-a newly created Hill district, and therefore is basically a rural area. The college aspires to be a catalyst for change in this region and emphasizes in fostering a culture of inquiry and addressing pressing regional, as well as global human and scientific challenges. The college has adequate infrastructure for the academic requirements of the students with twenty-three classrooms and two seminar halls. Further the college also has a library with internet, Sports facilities and facilities for other physical activities for the students and the staff of the college.

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The college is blessed with Mother Nature bearing a very pleasant environment and as R. N. Tagore used to teach pupil beneath trees at Shantiniketan – it was his favourite as at the closest proximity of NATURE that is GOD – this environment is next pure to that level. Pedong lies 22 km east of Kalimpong on the way to Indo Tibetan border at an altitude of 1,240 meters (4071 feet). The town, which is located on a ridge, commands a panoramic view of the Kanchenjunga and the Himalayan Mountains. It is divided into two parts, upper Pedong and lower Pedong. The college is situated well in the biological hotspot of the Eastern Himalayas. This factor also makes Government General Degree College a unique institution with plenty of foliage and varied species of flora and fauna. It is therefore an advantage that the location of the college is filled with natural environment that play a vital role in the balance and sustainability of the ecosystem. The present report intends to evaluate the various college activities in the light of preserving, protecting and promoting the rich biological diversity within which the college is located. From that point it have had always bore a huge opportunity to be an ideal institution to lead with its green initiatives and with its limited resources it have had been trying achieve synergy and equilibrium with nature, the locals as well as the environment it is thereby. Through the time Pedong college had become a part of its eco system alike also. Hereby alongside the NSS activities regular campaign and awareness and also nearby field works have had been held with the students to set al the ecological ingredients as an example and have had tried to explore and make people aware. At mere adolescence of the college it is still trying more and more well and to achieve higher goals for future to come.

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### Satellite Image (Google maps) of the location of College:



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NAME OF THE PROJECT	GOVERNMENT GENERAL DEGREE COLLEGE AT PEDONG
ADDRESS	1 <sup>ST</sup> TURN, PEDONG RESHI ROAD, PEDONG, KALIMPONG – 734311, WEST BENGAL
LOCATION	Lat : 27.15' N Long : 88.6167' E
CAMPUS AREA ( In acres)	5 Acres
Built up area (in M <sup>2</sup> )	2318.523M <sup>2</sup>
AVERAGE ANNUAL KAINFALL	220 CM
WATER SOURCES	Principal sources of water
WASTE MANAGEMENT SESTEM	Composting, incineration
AVERAGE DAILY WATER DEMAND	500 liters
AVERAGE DAILY ENERY DEMAND	5 units

Number of Office: 1

Number of Library: 1

Number of Laboratories: 3

Number of Canteen: 1

Number of Kitchen: 1

  
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Number of Toilets:	7
Number of Conference Hall/Auditorium:	2
Number of Cycle/Bike/Car shed:	1
Number of Store Room:	1
Number of Hostels Area:	0
Number of Guest House:	0
Number of Staff Quarters:	0
Number of Open Garden Area:	1
Number of Herbal Garden:	2
Number of Plantation Area:	1
Number of Play Ground with Grass Cover:	1
Number of Waste land:	0
Number of Water body:	0
1. Is there a garden in your institute?	Yes
2. Do students spend time in the garden?	Yes
3. Total number of Plants in the open areas?	More than 600
4. Total number of herbal Plants in the open/herbal garden areas?	500 or more

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## GREEN AUDIT: OBJECTIVES AND METHODOLOGY

**Objectives of Green Audit:** The main objectives of this Green Audit are:

1. Identification and documentation of green practices in Government Degree, College Pedong.
2. Identification of the strengths and weaknesses in green practices under taken by the college.
3. To improve upon the weaknesses identified.
4. To facilitate improvement in waste management system.
5. To monitor the energy consumption pattern of the college.
6. To bring about more awareness among students and faculty members on the maintenance of a green and clean campus.
7. To identify the areas where more effort is needed and suggest recommendations to improve the Green Campus status of the college.

### **Methodology:**

Green audit is a useful tool for an institution to determine the nature of use of energy, water and other natural resources. Such determination of the pattern of use of resources could aid the institution in considering changes and make optimum use of such resources and contribute towards sustainability. It can also be used to determine the type and volume of waste which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics. Thus, Green audit report enquires itself to be precise, sharp and encompass all aspects of the environment and resource use and recommend sustainability and greening mechanisms in consonance with the institute's ability to implement such programmes and activities.

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The methodology adopted for the Green audit was multi-pronged with the audit process involving initial interviews with management to clarify policies, activities, records pertaining to use of bio and natural resources, waste management mechanisms, water quality maintenance, and future plans. This was followed by interviews with the staff, students and other stakeholders, collection of data through review of records, observation of practices and observable outcomes involving issues like energy conservation, use of renewable resources, rain water harvesting, efforts of carbon sequestration methods, planting trees, waste management including hazardous and e-waste. It also included systematic identification, recording and analysis of components related to sustainable development of an educational institution to preserve for future generations. physical inspection of the campus, observation and review of the documents, interviewing responsible persons and data analysis, and recommendations.

### **WATER AUDIT:**

Water, being a natural resource, all living organisms depend upon it. Water is freely available in many natural environments but in human settlements drinking water is neither potable nor easily accessible. Depletion of ground water and water contamination is increasing at an alarming rate. Therefore, it is very much essential to examine the quality and usages of water in the campus area.

Water audit, also called evaluation or water assessment is a comprehensive analysis of the current water use of a campus and the subsequent development of a strategy to income water usage efficient and identify alternative water resources. Water auditing examines the major areas of water use, including human consumption, personal hygiene and sanitation, washing, cleaning, laundry, gardening etc. Water auditing in a particular site over time should be conducted on a regular basis in order to measure the progress from adopted water conservations mechanisms and cutbacks. Furthermore, regular water audit provides

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an analysis of the usage of water, effectiveness of the conservation methods and potential cost and water saving.

**Water Supply of Government General Degree College at Pedong:**

The source of water supply for the college is situated 7.8 KMs from the campus area in Kashyone, Sillery forest under GCP Kashyone Division.

**Details of Water and its Sources**

Sl. No.	Parameters	Response
1.	Source of Water	Perennials Sources
2.	No of water Tanks	01
3.	Capacity of Tanks	4000 liters
4.	Water Usage for Gardening	200 liters (approx) Dry Season
5.	Sources of Water Waste	Canteen, Wash Basins
6.	Water Wastage	Excess/Over Flown Water from Tank Supplied to the Villagers

**Quality of Water in the Campus:**

Since the primary sources of water are perennial surface water, the water is soft in nature with negligible hardness. It is therefore health- friendly and consumes less soap and detergents which are hazardous for environment.

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## **Energy Audit:**

An energy Audit is an inspection survey and an analysis of energy flow energy conservation in a building. The primary objective of energy audit is to determine ways to reduce energy cost. Energy Audit acts as a reference point for managing energy in an organization and also provides basis for planning a more effective use of energy. Energy conservation is an important aspect of campus sustainability which is also related to the Carbon footprint of the campus. Energy audit also concerns itself with the conservation and methods to reduce energy consumption related to environmental degradation. Therefore, it is essential that every institution should examine its energy use practices.

## **General Estimation about Energy Consuming Appliances / Activities in the Campus:**

Government General Degree College at Pedong is a co-educational day college with a single academic shift from 10 am to 5 pm. Therefore, the energy consumption is much less than that of residential institutions. Both the floors of the college building are electrified with proper ceiling fans in all the classrooms, offices, seminar hall, library and the chamber of the officer – in charge. There is provision of CCTV camera in the campus. Most of the tube/bulbs are LED. The sound system is used only during special events, while the projector is used in the seminar hall, the office, library and departments utilize desktops and laptops along with the printers.

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Sl. No.	Equipment	No.	Power consumption /day (kWh) Approx	Power consumption/ month (kWh) Approx	Power consumption /year (kWh) Approx
01.	Fan	112	0*	0	0
02.	Tube Light	144	2	60	720
03.	Tube Light LED	102	2	60	18
04.	Server	01	0.5	15	180
05.	Modem	01	0.25	7.5	90
06.	Exhaust Fan	24	2	60	720
07.	CCTV Cameras	15	2	60	720
08.	Water Purifier	04	2	60	720
9.	Street Light	10	2	60	720
10.	Refrigerator	02	2	60	720
11.	Desktop+UPS	21	7	210	2520
12.	Projector	03	2	60	720
13.	Printer	15	1	30	360
14.	XEROX machine	01	0.25	7.5	90
	<b>TOTAL</b>	<b>458</b>	<b>24</b>	<b>750</b>	<b>9000</b>

\* Due to ambient weather condition no fan is used in the College.

It is worthwhile to note here that out of 246 normal tube-lights, the institute has been able to replace 102 of them with LED tube-lights. Moreover, recently, all 30 bulbs have been replaced by LED Bulbs. This is expected to cut down the power consumption by the institution significantly. However, the institute awaits next power bill to calculate the net power saved with such replacements and for future action. The sufficient nos. of windows enable sunlight to enter in the class rooms to cut down the unnecessary usage of electrical lights as well it works the air ventilation in proficient way to keep the room temperature

  
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below 25°C always. It cut down the electric energy consumption due electric fans. For the same reason no air conditioner has been installed at the college.

There are 120 trees, as well shrubs as well medicinal plants as listed above and are around at least 450 in number, There are approximately 270 people coming at college and the ratio of pedestrian: car: bus: bike is Henceforth the CO<sub>2</sub> and greenhouse released is= Number of cars doing carpool: 4; (Petrol consumption cost: 7000/- INR each car); Quarterly E bill: 16,000/- INR and the units are calculated. Green waste: canteen: alike 600 g; non degradable waste: & lt;500 g; Initial calculations suggest as per electric consumption, the trees around college Campus produce at least twice amount of O<sub>2</sub> than the eCO<sub>2</sub> emitted and sequestered. The average no of students coming and in pedestrian: bus: car: scooter is 55: 17: 2: 5: It was also mentioned thereby 3 cylinders are needed per month. The car and bus as well as petrol consumption per day is reaching to around more than 40 kg of CO<sub>2</sub> per day in the atmosphere as well. GREEN INITIATIVES BY CAMPUS There are separate bins used for the waste management and those are dry/ non degradable and also degradable waste which are usually wet. o Recycling of used paper is carried out by a person who carries away the non-degradable waste. The degradable waste is used for composting. Tree Plantation Drives those can be viewed hereby around well enough as alike June 5 th it is observed each year: Three plantation drives were carried out in the current year in the Campus. (2022, 2023 and also 2024).According to the calculations, Approx 518 kg of CO<sub>2</sub> is produced by cars as of carpool of college staff by car and 360 kg of CO<sub>2</sub> emitted per month because of scooter. Per month CO<sub>2</sub> emission by electric consumption of college is 615 kg. 128 Kg of Kg of CO<sub>2</sub> emitted at canteen gas burn per month. 550 kg of CO<sub>2</sub> per month is sequestered by the trees at campus at college. 4186 Kg of O<sub>2</sub> is produced by the trees and plantation present at the college per month.

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## WASTE MANAGEMENT AUDIT

A waste management Audit is a formal, structured process used to quantify the amount and types of wastes being generated by an organization, and the mechanism of such waste management. Waste management audit involves careful garbage collection over a specific period, followed by a physical analysis of all items entering into the campus area. This audit is a valuable tool for institutions looking to identify opportunities for improvement and take steps towards more sustainable waste management practices.

Pollution from waste is aesthetically unpleasing and results in large amounts of garbage and litter in our surroundings, which can cause serious health issues. Solid waste can be divided into three categories bio- degradable, non – biodegradable and hazardous waste. Bio- degradable waste includes the wastes from food, canteen, toilet etc. Non – biodegradable wastes includes plastics, tins, glass bottles etc. Hazardous waste is waste that is likely to be a threat to health or the environment like chemicals, acids etc. Proper management of such wastes should be looked into in order to avoid harmful discharge of contaminants into the soil and water supplies and potentially produce greenhouse gases contributing to global climate change. Bio-degradable waste can be used effectively for energy generation purposes through anaerobic digestion or can be connected to fertilizers by composting techniques. Non – biodegradable waste can be utilized through recycling and reuse. Therefore, the reduction and minimization of such waste is a necessary practice and is essential to a sustainable college.

An efficient management of waste starts with regular collection of waste generated. This task has been made easier by placement of dustbins at appropriate places. Dustbins are placed at canteen, corridors of the building etc. Segregation of waste according to the type is the most important method used to manage waste in this institution. Waste like paper and plastic are burnt by the cleaning staff. Sanitary pads are burnt in the incinerator; other combustible wastes are collected by the cleaning staff. The wastes that can be used to form compost are collected in the compost pit of the college. This institution is working hard to establish itself as a 'Zero-waste' zone. Number of measures has been put up to promote the concepts of Reduce, Reuse and Recycle'.

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**DETAILS OF WASTE MANAGEMENT**

Sr. No.	SOURCES	TYPES OF WASTE
1	ACADEMIC AREAS	Papers, Plastics, Electronic Items, Sanitary Napkins, food
2	OFFICE	Paper, Plastic, e-Waste
3	CANTEEN	Food Vegetable Waste, Plastics Papers

Government General Degree College at Pedong has adopted and implemented adequate measures for the management and proper disposal of the types of waste generated in the campus.

**Waste generated:**

Canteen waste 1.5 kg/ day

Paper waste: 0.6 kg/ day

Non-Biodegradable plastic 0.6 kg/day

Hazardous Waste Laboratory 0.5 litre/ day

**A. SOLID WASTE MANAGEMENT:**

The College has maintained a proper system of separation of all types of wastes generated in the campus. There are color coded bins for bio-degradable and non-biodegradable wastes, placed to places in the campus. Wastes such as paper, leaves etc. are composted in the pit forming organic fertilizer, used later for plantation purposes within the campus and distributed among needy local residents.

**B. LIQUID WASTE MANAGEMENT:**

Liquid waste generated by the college is of two types: Sewage waste and canteen effluent waste. Effluent from wash basins, canteen kitchen area are flushed into the drainage system.

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Figure: Dry and Wet Waste Bin



Figure: Modified Damaged Mixture Machine Reused as PET Bottle Collector

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Figure: Organic Compost Pit

C. **e-WASTE MANAGEMENT:** Generally, all the unused or the non- functioning computers, printers etc. are collected and stored inside the E- waste storage space. The parts are reused at times.



Figure: e-Waste Collector

  
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## CAMPUS CLEANING DRIVE



Government General Degree College at Pedong is situated in the rural area of Pedong, surrounded by greenery on all sides. Situated on the lap of nature, the college is in an advantageous position to secure an environment sustainable campus. All the classrooms in the college are naturally lighted up with sunshine and fresh air. There is a “mini botanical garden” at the entrance of the college building maintained and **looked after by NSS**. There are plants on the upper side of the campus which are specific only to this particular region.

The college aims to protect the biodiversity of the region in which it is located and promote and conserve nature through activities which involve both the staff and the students. The NSS unit of the college has undertaken many projects like tree plantations, special camps, campus cleaning and World Environment Day holds a special meaning to the college and the students. On this special day the students and the staff clean and dress nature to their best of abilities.

  
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**LIST OF PLANTS which may be found in and around the Campus:**

**a. TREES:**

Sl. No.	POPULAR NAME	SCIENTIFIC NAME
1	Gaghun	<i>Sauria Nepalensis</i>
2	Kaulo	<i>Machilus odoratissima</i>
3	Lampate	<i>Duabanga grandiflora</i>
4	Kyamuna	<i>Syzygium operculata</i>
5	Kutmero	<i>Litsea polyantha</i>
6	Lapchekaulo	<i>Machilus edulis</i>
7	Faledo	<i>Erythrina stricta</i>
8	Piple	<i>Exbucklandia popularea</i>
9	Khapasi	<i>Acer cambelli</i>
10	Chilaune	<i>Schima wallich</i>
11	Dhupi	<i>Cryptomeria japonica</i>
12	Nebhara	<i>Ficus auriculata</i>
13	Panisas	<i>Terminalia myriocarpa</i>
14	Banghe	<i>Hovemia dultis</i>
15	Chari	<i>Bassia butyracea</i>
16	Ghurash	<i>Rhododendron arboreum</i>
17	Hathipailo	<i>Pleraspermus acerefolium</i>
18	Payun	<i>Prunus cerasoidis</i>
19	Chimal	<i>Rhododendron barbalum</i>
20	Kharane	<i>Symplocos theifolia</i>
21	Dudhilo	<i>Ficus nemoralis</i>
22	Malata	<i>Macaranga pustulata</i>
23	Utish	<i>Alnus Nepalensis</i>
24	Bhadrasese	<i>Elacocarpus sikkimensis</i>
25	Katus	<i>Castanopsis</i>
26	Khanappa	<i>Evolvia meliafoelia</i>

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**1. Local name: Kalijhar/ Banmara**

**Scientific name:** *Eupatorium Adenophorum/Eupatorium Cannabium (Agaratina Adenophora)*

**Local usage:** Leaves are used for oral/ skin sore/ cuts and wounds (The first species). Banmara contains ethanol, methanol and essential oils and a possible cause of their property of being an anti-bacterial herb.

**2. Local name: Pakhanbeth (Tropical-sub tropical) Scientific Name: Berginia Cilita**

**Local usage:** Used for ulcer, stomach disorder and tooth ache by the locals. Phenol and terpenoid found in extracts of this plant recently.

**3. Local name: Golpatha/Golpatta(Tropical)**

**Scientific name:** *Hydrocotyle Asiatica*

**Local usage:** Used in leprosy, fever, asthma, bronchitis and tonsillitis.

**4. Local name: Abijalo (Abhijalo) (Tropical and even found in Sri Lanka)**

**Scientific name:** *Drymeria Cordata*

**Local usage:** Plant paste and roasted shoot are used. Used for fever, headache and as well biting of *Canis sp.* It is also used for medicinal purpose against jaundice that

**5. Local name: Chari camilo**

**Scientific name:** *Drymeria Cordata*

**Local usage:** Plant paste and roasted shoot are used. Used for fever, headache and a swell biting of *Canis sp.* It is also used for medicinal purpose against jaundice that is unknown to the local.

**6. Local name: Titepati**

**Scientific name:** *Artemisia Vulgaris*

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**Local usage:** Used in case of bleeding, skin disease, spasmodic disorder and diarrhea.

**7. Local name:** Kur Kure Jhar (Kur Kuray jhar)

**Scientific name:** *Equisetum Diffusum*

**Local usage:** Used in tuberculinum, nose bleeding, kidney stone, UTI and also as diuretic. Powder as well as syrup is used. In case of anemia as well as for bone disorder.

**9. Local name:** Tulsi (Common plant)

**10. Local name:** Amliso (Common plant)

**11. Local name:** Elaichi

**12. Local name:** Parijat

**Scientific Name:** *Nyctanthes sp.*

**Local usage:** Fever, arthritis and as laxative

**13. Local name:** Sajana

**Scientific Name:** *Moringaoleifera*

**Localusage:** Miscellaneous.

**14. Local name:** Aduwa(Common)

**15. Local name:** Amla

**16. Local name:** Uttis

**Scientific Name:** *Alnus nepalensis*

**Local usage:** Economic usage; miscellaneous.

**17. Local name:** Pudina

**ScientificName:** *Mentha sp.*

**Local usage:** Used as an antioxidant in food; Heals seasonal allergy; Pain relief etc.

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18. Local name: Ghridakumari Scientific name: Aloe vera

Local usage: Burn ,injury as well as skin disease treatment.

19. Local name: Sisnu

Scientific Name: Urtica dioica

Local usage: Dried or paste of root can be used in minor fractures; This is good in case of food poisoning or diabetes.

20. Local name: Kulen

Scientific name: Cinchona succiruba

Local Use: Treated globally as a medicine for malaria.

21. Chamcheyjhar:

Scientific name: Plantago major

Local Use: Under study as a traditional medicine. Used in eczema, sore, ulcer, insect bite, asthma, bronchitis etc. Roasted seeds are often used. It is a traditional Persian medicine.

22. Local name: Nakima

Scientific Name: Tupistranutans

Local usage: Used for diabetes and food poisoning therapy. (As well used in curry)(Actually the parts of this plant are strong anti-oxidant).

23. Local name: Bhakimlo

Scientific Name: Rhusse mialata

Local usage: Medicine for indigestion and dysentery.

24. Local name: Gandhayjhar/ Ragatayjhar

Scientific Name: Hottuyinia cordata

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Local usage: This is perennial herb. Currently this plant is in research for its use. Locals use it for cough, cholera, dysentery, It is even used in snake bites and in cancer treatment. It has anti-inflammatory properties.

#### 25. Local name: Elame

(Tropical herb of 90 cm height)

**Scientific name:** *Ageratum conyzoides*

**Local Use:** Fever, rheumatism, headache, wounds, eye problem, ulcer and as well pneumonia. This is an all-round medicine maker. Leaves are used for tetanus; Rootjuiceis anti-dysenteric.

#### 21. Local name: Lajjawati (Tropical to sub-tropical plant).

**Scientific name:** *Mimosa pudica (or Mimosahimalayana or Mimosa hamata)*

**Local Use:** Used in dysentery, fever. Leaf juice is used for piles, fistula as well goitar. Contains tannin and calcium oxalate.

#### 26. Localname:Aisayloo

**Scientificname:** *Rubuse llipticus*

**Local Use:** Root and shoot are used for colic stomach; Used in diarrhea and fever, cough.

27. Budhookhati (Locals call it okhati only;It is also a plant that isused for Swelling and dysentery.

Scientific name: *Astilber uvalris*).

Many of the types of these medicinal plants like Titepati, Elame, Banmara may be abundantly found in the campus area as well as the other types of species (at least 10-12 of them) in the campus.

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- **Trees as may be found within the college area along some of the medicinal or herbal plants: (Count of trees is shown):**

*Endoclita malabaricus. (MALATA)= 25*

*Alnus nepalensis. UTTIS: 44*

*Chilowna: 26 (Schima wallichii)*

*Khanew: 1 (Ficus benjamina)*

*Pipali: 3 (Bucklandiapopulanea)*

*BIPLINCHI: 1 (Local name)*

*MOWWA: 2 (Local name)*

*KHURSILO: 1 (Local name)*

*FOLADO: 1 (Local name)*

#### b. MEDICINAL PLANTS CULTIVATED IN THE COLLEGE GREENHOUSE:

Sl. No.	POPULAR NAME	SCIENTIFIC NAME	USAGE
1.	Ankhalay Jhar	<i>Achyranthes Bidentata</i>	Roots and stem: Juice used as diuretic, also for relief in rheumatism and hypertension
2.	Dhaniya	<i>Coriandrum Sativum</i>	Seeds used as spice. Leaves used to enhance flavor in food Plant used for curing flatulence, cough, bronchitis and rheumatism.
4.	Chimphing	<i>Heracleum Wallichii</i>	Roots used as aphrodisiac. Seeds taken in diarrhea and gastric disorders. Dried seeds are also used as a flavouring agent.
5.	Golpata	<i>Hudrocotyle Himalaica</i>	Plant extract taken to cure pneumonia and throat infection.
6.	Nakima	<i>Campylanra Aurantiaca</i>	Roots are taken orally in case of food poisoning. Flowers used as appetizer and taken as a cure for diabetes. Plant dried and pounded to powder form, taken as body pain relief and food poison anecdote.

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7.	Banmara	<i>Ageratina Adenophora</i>	Plant is pounded and applied in fresh wounds as blood coagulant and antiseptic. Juice also taken orally in fever and dysentery.
8.	Titepathi	<i>Artemisia Dubia</i>	Plant used in ritual ceremony considered pure. Leaves used to treat pains and possess anthelmintic properties. Crushed leaves used to open decongestant sinuses and stop nasal bleedings. Taking bath of leaves juice cures skin allergies. Extract used as antiseptic on cuts and bruises.
9.	Sayapatri	<i>Tagetas Patula</i>	Flowers chewed to cure sore throat, cough and mouth ulcer.
10	Rayo	<i>Brassica Campestris</i>	Used as curry, make fermented condiment named <i>Gundruk</i> which is a cure for fever, indigestion and irritation.
11	Simrayo	<i>Cardamine Hirsuta</i>	Entire plant used as curry to lower blood pressure, cure cardiac problems and as a rich source of vitamin a.
12	Chiraito	<i>Swertia Nervosa</i>	Roots used to treat fever, cough and cold.
13	Pudhina	<i>Mentha Piperita</i>	Plant taken in bodyache. Leaves taken in painful urination, indigestion and stomach problems.
14	Ghiu kumari	<i>Aloe Vera</i>	Used for antihyper-gycemic effect. Purgative and used on burns and skin complaints. Also used as stomach tonic, purgative and anthelmintic.
15	Hadchur	<i>Viscum Articulatum</i>	Used to treat bone fracture and also given in ulcers, epilepsy, muscular pains, injuries and rheumatism.
16	Chinde	<i>Pentapanax Leschenaulti</i>	Used as curry, cure for body aches and high blood pressure.

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Faunal Diversity in the Campus Area

	Species	Local Name	Siting Frequency
<b>Birds</b>	<i>Acridotheres Tristis</i>		Occasional
	<i>Streptopelia Orientalis</i>		Occasional
	<i>Parus Monticolus</i>	Chichin kotay	Frequent
	<i>Dicrurus Macrocerus</i>	Black drongo	Occasional
	<i>Psilopogon Asiaticus</i>	Kuthrk	Frequent
	<i>Rhipidura Albicollis</i>	Nakkale maruni chhara	Occasional
	<i>Pomatorhinus Eryhrogenys</i>	Rusty cheeked babbler	Occasional
	<i>Seicercus Burkii</i>	Fiesta	Frequent
	<i>Urocissa Erythroryncha</i>	Lampuchere	Frequent
	<i>Megalaima Virens</i>	Niauli	Frequent
	<i>Garrulax Leucolophus</i>	Hiunjure	Occasional
	<i>Myophonus Caeuleus</i>	Calchuda	Frequent
	<i>Eumyias Thalassina</i>	Nilotutho	Frequent

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**LIST OF PROGRAMMES ORGANIZED BY THE NSS UNIT/ STAFFS OF THE COLLEGE TOWARDS PROMOTING A GREEN CAMPUS:**

The NSS unit also focuses on developing the social as well as civic responsibility amongst the students. This is put into action by performing regular activities like cleanliness drives, tree plantation, seminars and awareness programs and a special camp held every academic year for a span of one week at the adopted village where students engage in depth with the village community to improve and help the adopted village and its members. As well the assistant professors who have had been recruited at the college are all very much aware of the green initiatives as well. The first EVS field alongside team IZIFISO was made by the leadership of Dr. Koustav Chatterjee during 2016/2017. The college was at its adolescence. The pupil and as well as Dr. Koustav Chatterjee, Asst. Prof. Dr. Tamoghna Saha assisted with other teachers of college alike Asst. Professor Uden Bhiutia assisted the students for a daytime visualization of the plethora of bio diversity found in nature. The trip was made on foot from Military canteen to Sillery and by the time of return, though route cars were taken. Below are the pictures of trees lying as a result of deforestation. Students were made aware about the impact of this issue. Currently the VAC/ MDC as well as previously the CBCS EVS classes were made off of the background of the followed up EVS fields made from college at adjacent to college where the faculty members often have had used this bio-diversified (ecological hotspot of Himalaya) character of this area as an advantage of the field conducted as well as for the preparation of their practical note books present at the repository of departments who have had guided the students for the purpose alike Department of Geology. This was as effective to make the students understand the bad looks due to deforestation in area as well the impact of this may be brought to nature since the college started. The scenario may look picturesque and yet thereby lays the impact upon environment too.

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Thereby these initiatives were taken by the NSS as well as the teaching and non-teaching staff as well as the students also.

**1. Tree Plantation:** In order to promote environmental conservation, reduce carbon footprint, and create a green campus tree plantation program was organized by the NSS on 14.04.2018. Tree plantation is a vital initiative to combat environmental degradation, climate change, and biodiversity loss. The NSS unit came together to organize a tree plantation drive and planted many saplings around the campus area. The tree plantation drive was a resounding success, with active participation from volunteers and the local community.

Every year similar activities have been organized as recorded up to 2022.

**2. Campus Cleaning:** With an aim to promote cleanliness, hygiene, and environmental awareness among students and staff, the NSS Unit organized quarterly cleaning drive in the campus, involving students and faculty, to keep the campus clean and beautiful during 2018 to 2022. All the teaching staff including every department although keeps a track of cleaning their own department as well during college re opening or after vacations.

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**2. Environment Day:** To commemorate World Environment Day and promote environmental conservation, the NSS Unit decided to celebrate by planting trees and beautifying the college premises. A Tree Plantation Drive was held where 30 saplings of walnut, panisaas, and pine were planted at the barren sides behind the college buildings during 2024. The NSS volunteers and teachers actively participated in the event. The planting focus was on the barren sides behind the college buildings, aiming to enhance the aesthetic appeal and ecological balance of the area. Every year similar activities have been organized as recorded since 2022 by teachers with or without NSS involved also as can be seen in the photograph.

**3. NSS DAY/ PANEL DISCUSSION:** A panel discussion was held on 25.9.2018 to celebrate the NSS day by the volunteers and teachers. It began with an introductory speech by the Officer in charge followed by a speech on NSS Day and its significance by Bijay Khatiwada, NSS volunteer of Nepali Department. The panel discussion was moderated by Asst Professor Eesha Moktan. The students presented their views on the topic '*Swachta hi Seva*'.

#### SUMMARY OF FINDINGS AND RECOMMENDATIONS

Although despite being a rural college with most activities directly depending on the funding from the Government, the college appears to have attempted significantly to meet

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green and sustainability standards. The activities reveal environmental consciousness among the stakeholders and an enthusiasm towards environmental conservation. However, the institution may improve on certain aspects as pointed out below:

- Measures to minimize the use of single use plastic through institutional policy mechanisms may be initiated and plastic reuse and disposal mechanisms may be developed
- It is recommended that all plants in the campus may be labelled to foster environmental consciousness and environmental knowledge
- The institute may initiate community participation and outreach programmes for environmental awareness and conservation of nature
- The college may improve upon the documentation system to keep a proper record of outreach programmes conducted in the community and further such programmes at regular intervals
- There is a scope to take initiative towards rain water harvesting.
- Energy consumption pattern may be reviewed and robust measures towards energy saving may be initiated with periodic monitoring of consumption pattern and adoption of energy saving strategies.

**Acknowledgement and note of thanks:**

The students (former) as well as their reports for EVS have had been used for the documentation of the medicinal plants mostly. In the year 2024 during the audit preparation as well as tree counting, ANURADHA MUKHIA (Dept of Pol. Scs); as well as Ritesh Rai and AWAS RAI Dept. of Nepali helped in the process along side our non-teaching staff Sanjib Subba with his databank of birds as well butterfly and species as found in this area. Since the beginning, thereby teachers of this college had retained very humble and enthusiastic about this college as well nature surrounding and as well studies of EVS along activities and

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programmes of NSS time after time takes into consideration trying to take care of the eco-friendly materialism as the college runs. What bearing the college may go via multiple GO green initiatives taken all over the World is to be seen in future.



Celebration of World Environment day: 2022

The biodiversity that have had attracted plethora of species of Doves (birds) in this ecological hotspot to visit and stay hereby. Science also states that, the songs those are sang

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by these are advantageous for the benefit of health of human beings and like an own ecological niche and system reverberating in this faction of mountain. Thereby are butterfly which may be blooming and seen blossoming during November to March and the color does specify the diversity.



Streptopeliaorientalis



Acridotherestrictis



Parusmontolicus



Pyconotuscafer

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Dicrurusmicrocerus



Nilotuthoarjunak



Rhipiduraalbicolis



Psilopogonasiaticus

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Pomatorhynchus rhyogenys



Urocissa erythrorhynchos

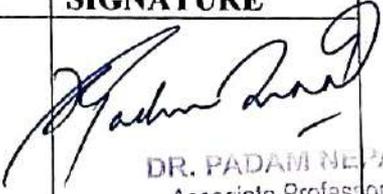
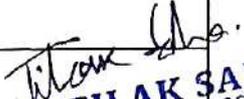
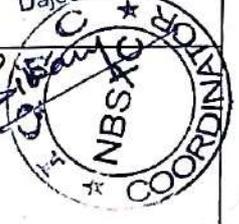
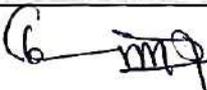
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GREEN AUDIT

NAME OF TEAM MEMBERS	CAPACITY	SIGNATURE
<b>DR. PADAM NEPAL</b> Associate Professor Department of Political Science St Joseph's College, North Point, Darjeeling	<b>CHAIRMAN</b>	 DR. PADAM NEPAL Associate Professor Department of Political Science St. Joseph's College North Point, Darjeeling
<b>DR. TILAK SAHA</b> Associate Professor Department of Zoology, University of North Bengal	<b>COORDINATOR</b>	 DR. TILAK SAHA ASSOCIATE PROFESSOR Department of Zoology University of North Bengal Dajeeling - 734013
<b>DR. BIPRANSH KUMAR TIWARY</b> Head, Department of Microbiology North Bengal St Xavier's College, Rajganj, Jalpaiguri	<b>JT. COORDINATOR</b>	 
<b>FR. DR. DONATUS KUJUR, SJ</b> Principal, St Joseph's College, North Point, Darjeeling	<b>MEMBER</b>	 Principal St. Joseph's College P.O. North Point Darjeeling-734104
<b>DR. (MS) AMBIKA THAMI</b> Government Degree College at Pedong	<b>MEMBER</b>	 Dr. Ambika Thami (WBES) Dept of Political Science Govt. General Degree College Pedong - 734311

I hereby agree with the observations made and recommendations given by the Green Audit Team /Committee.

  
15/7/24  
Navin Poudyal, W.B.E.S.  
Officer-in-Charge  
Govt. General Degree College At Pedong  
P.O. - Pedong, Dist. - Kalimpong - 734311