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GREEN AUDIT REPORT

Darjeeling Govt. College
Lebong Cart Road, Richmond Hill, Darjeeling
West Bengal-734101



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Memo No: N-11/22

Date: 04.03.2022

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Executive Summary

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development. Darjeeling Govt. College is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reverse the trends. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Campus Policy. The methodology included: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. It works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student health and learning college operational costs and the environment. The green audit was based on the guidelines, rules, acts, and formats set by the Government of India, Ministry of Environment and Forest, New Delhi, and Central Pollution Control Board, New Delhi.

1. Introduction

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. 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. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit. 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.

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1.1 About the College

1.1a Location

Darjeeling Government College is a co-educational government-funded college established in 1948 in Darjeeling, West Bengal, India. The College is situated at an elevation of 2134 meters on Jalapahar-Lebong ridge. The college area extends between $27^{\circ} 3' 13.45''$ and $27^{\circ} 3' 18.27''$ north latitudes and $88^{\circ} 15' 26.90''$ and $88^{\circ} 15' 31.29''$ east longitudes (Pic1 & Fig1). Its near Padmaja Naidu Himalayan Zoological Park and the Himalayan Mountaineering Institute. It offers postgraduate courses in [Botany](#), [Zoology](#), [English](#) and [Nepali](#) and undergraduate courses in Nepali, English, Bengali, History, Hindi, Economics, Modern Tibetan, Geography, Political Science, Philosophy, Physics, Chemistry, Mathematics, Botany, Zoology, Microbiology and Commerce.



Pic 1- Google Earth Pro satellite image showing location of Darjeeling Govt. College.

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Land Use Map of Darjeeling Government College
Lebong Cart Road, Darjeeling

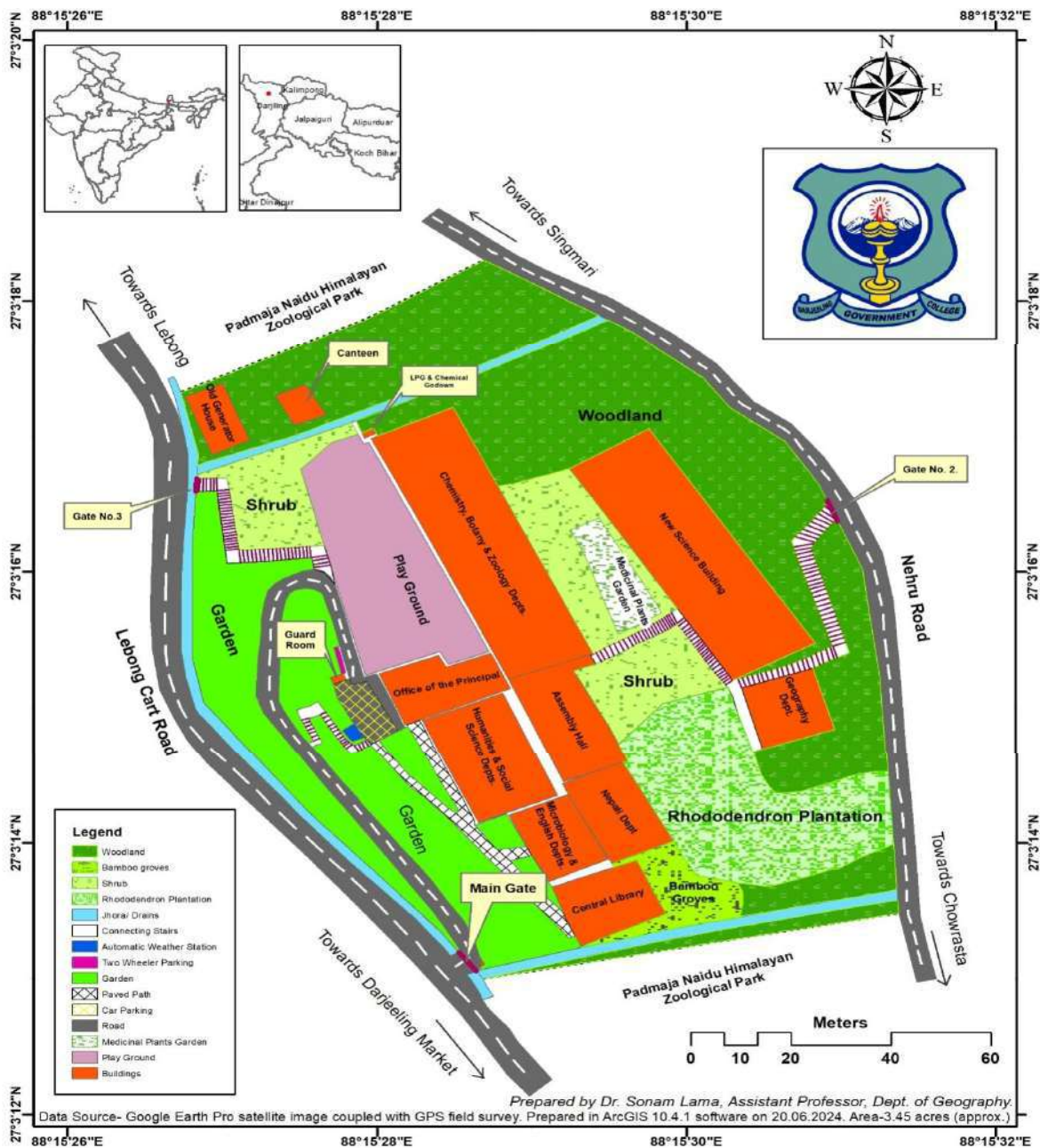


Fig. 1 Land use map of Darjeeling Govt. College campus.

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1.1b Weather and Climatic Conditions

The average annual rainfall ranges from 2000 mm to 3400mm, 90% of which happens during four-five months of the high-sun season (May–September) whereas very little precipitation happens during the low-sun season. During winter, average temperature ranges between 5° C to 7° C which occasionally plummets below freezing point inducing rare snowfall. During monsoon and winter, the campus area often remains shrouded in mist and fog.

Table-1 Average weather data recorded at Darjeeling Govt. College AWS for 2023

Months	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Min. Temp. (Degree Celsius)	1.2	4	7	6.9	10.8	15.5	16.2	16.2	14.2	11	9.2	5
Max. Temp. (Degree Celsius)	17.2	16.6	18.4	22.5	22.6	22.5	23.3	22.1	22.8	21.1	17.8	15.9
Mean Rainfal (mm)	0	0	3.4	1.4	1.7	15.8	9.8	16	11.4	5.4	0	0.16

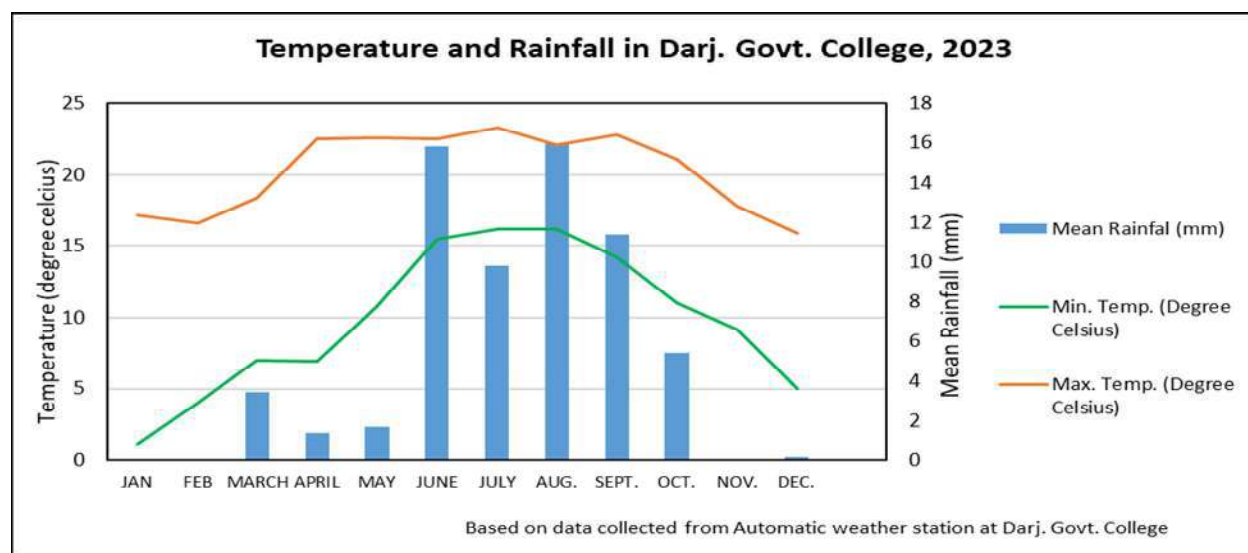


Fig 2 Temerature and Rainfall in DGC,2023

2.Goals and Objectives of the Study

The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The prime long term goals and interim objectives are focused to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

Goal of the Green Audit: -

- Identification and documentation of green practice followed by the college
- Identification of the strength and limitations of the green practices.

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- To introduce and aware students and stakeholders to real concerns of environment and its Sustainability.
- Encourage the stakeholders for optimized sustainable use of available resources.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use of the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requiring high cost.
- To bring out a status report on environmental compliance.
- In pursuance of the Green Campus Policy of the Institution the Green Audit oversees and assesses the college's initiative and recommends measures for improvement.
- The reports of this will be made available to all stakeholders shall serve as a basis for continuous improvement and further sustainability initiatives.
- It shall also offer the institution an opportunity to take the lead in redefining its environmental culture through instilling environmental ethics and values among the students and staff.

The main Objective of Green Audit: -

- To map out the geographical Location of the Institution
- To document the floral and faunal of the college.
- To analyze the metrological parameters of Darjeeling, where the institute is located.
- To document the ambient environmental condition of weather, air water and noise in the college campus.
- To assess and document the waste disposal system.
- To report the green initiative during the last five years.

3.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 summaries the present status of environment management in the campus:

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

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4.Observations and Recommendations

4.1Water Use and Conservation

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.

a) Observations

Being situated in a hilly terrain at an elevation of 2000 m, water is very precious in Darjeeling. Thus, the optimal use of it without any wastage is of utmost importance. College strives to minimize its dependence on piped water supply from Darjeeling Municipality through year-round awareness campaigns among its stakeholders, reducing its water usage, reducing water wastages through leakages and maximum use of rain water through rain water harvesting. The study observed that the Darjeeling Municipality connection and rainwater harvesting are major sources of water in college and the hostels. College has water harvesting tank of 27,184 liters capacity. Water is used for drinking purpose, toilets and gardening. The waste water from the RO water purifier is used for gardening purpose. Water usage depends on season – March-April (entirely with Municipality supply-30,000 ltrs/week approx.), April- August (Municipality supply 18000 ltrs/week -, and rest with Rainwater Harvesting), August-December (Municipality supply -20000 ltrs/week, rest Water Harvesting) and during winter (late December to late February-) college closes for winter vacation. Only College office remains open during winter and thus water usage from Municipality connection drops to 10,000 liters/week approx. The data collected from all the departments is examined and verified. On an average the total use of water in the college is 3,000 liters /day, which include 2800 liters /day for domestic, laboratory purposes and 200 ltrs/day for drinking purpose. Rain water harvesting units are also functional for both reuse of water and recharging ground water level as well.

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Pic 2-NSS volunteers cleaning surroundings of Water Harvesting site.

b) Recommendations

- 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, such as RO filtration process and ensure that the equipment's used for such usage are regularly serviced.
 - Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. they are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations.
- Gardens should be watered by using drip/sprinkler irrigation system to minimize water use.

4.2 Energy Use and 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.

Note- A separate energy audit has been conducted for the institution. Hence details of observation and recommendation can be found there.

4.3 Waste Generation

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,

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repair, and reuse. Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus.

a) Observations

Being located in a hilly terrain of 2000 meters elevation and fragile ecosystem, college always aware its stakeholders and strive to generate minimal waste. The idea of “*consume less to handle lesser waste*” is the moto with which College handles its waste problem. Plastics in particular is very detrimental to hilly regions and therefore use of plastics especially single use plastics is almost prohibited inside the campus. All the stakeholders are directed to use alternatives to plastics during events, programs and functions in the college. Still some number of plastics get into the campus which are collected monthly or bi-monthly by NSS volunteers and they prepare Eco-Bricks out of plastics and pet bottle collected.

Waste generation leaf litters, is a major solid waste generated in the campus. The waste is segregated at source by providing separate dustbins for Bio-degradable and Plastic waste. Single sided used papers reused for writing and printing in all departments and recently both side printing is carried out as per requirements. The waste generated by newspapers 70 kg/year, magazine 50 kg/year and of cartons is 20kg/year. Very less plastic waste (0.1Kg/day) is generated by the department, office, garden etc. but it is neither categorized at point source nor sent for recycling. Metal waste and wooden waste is stored and given to authorized scrap agents for further processing. The solid waste is collected by the municipal corporation and disposed by their methods. -degradable wastes are turned into manure through composting inside the campus area only. The college laboratories do not use very hazardous Chemicals and radioactive elements and hence the wastes from the laboratories are negligible. Other less hazardous chemicals waste is disposed under the supervision of the teachers of the concerned department.

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Pic 3 Placard showing plastic free zone. Special talk on Micro-plastics by Prof. Yuvraj Gurung, Assistant Professor of Zoology during WED, 2023.

b) Recommendations

- Reduce the absolute amount of waste that is produced from college staff offices.
- 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.
- Provide sufficient, accessible and well-publicized collection points for recyclable waste, with responsibility for recycling clearly allocated.
- Important and confidential papers after their validity to be sent for pulping.
- Vermicomposting should be adopted on at least 300 sq. ft. of land.

4.4 E-Waste Generation

E-waste can be described as consumer and business electronic equipment that is near or at the end of its life. This 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.

a) Observations

E-waste generated in the campus is very less in quantity. Administration conducts the awareness programmes regarding E-waste Management with the help of various departments. The E-waste

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and defective item from laboratories and office are being stored properly in a separate room. The institution has decided to contact approved E-waste management and disposal facility in order to dispose E-waste in scientific manner.



Pic 4 E-waste collected is stored in a separate room.

b) Recommendations

- Recycle or safely dispose goods, computers and electrical appliances.
 - Use reusable resources and containers and avoid unnecessary packaging where possible.
- Always purchase recycled resources where these are both suitable and available.



Pic 5 NSS, DGC organized an AWARENESS PROGRAM on Electronic waste (E-Waste) By All India Women's Conference (AIWC), Darjeeling In Collaboration with HULLADEK (Hungry for waste) on 18.11.2022.

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4.5 Green Area

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 programmes.

4.5.1 Observations

Main Campus has a total area of 3.45 acres with 1.65 acres built-up area (47.8%). Thus, it has a green area of 52.2%. College campus is surrounded by protected forest of PNZP from three sides and thus has thick green both inside and in the vicinity. The campus has great variety of trees and plants. Every year various tree plantation programs are being organized at college campus and surrounding villages through NSS (National Service Scheme) unit. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various type of indigenous species of ornamental, flowering, medicinal, wild orchids, climbers etc.

The campus is situated at Richmond hill near the famous Padmaja Naidu Himalayan Zoological Park and the Himalayan Mountaineering Institute. Darjeeling Government college is surrounded by thick green canopy of reserved forests of PNHZP (north, east and south) and hence experience very quiet and peaceful, whereas Darjeeling-Jorethang road demarcates its western boundary. Further a PWD parking lot is situated in front of the main gate. This makes the main entrance quite chaotic and western part of the college bit noisy but it was observed that within the campus main building and classrooms, the noise from the nearby public space has no adverse effects on the teaching – learning process and no major treats of noise pollution was recorded. There have been no complaints on the noise emanating from nearby public space.

Notably college has installed an automatic weather station since March, 2021 to monitor local weather parameters. It records hourly data of six weather parameters namely Air temp. Avg, Humidity. Avg, Radiation. Avg, Wind Dir. Avg, Wind Spd. Avg, rainfall.

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Pic 6. Darjeeling Govt. College campus being surrounded by thick green canopy of reserved forests of PNHZP from three sides (north, east and south).



Pic 7 Automatic weather station being operational since March, 2021.

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4.5.2 BIODIVERSITY OF THE CAMPUS

The lush green campus of DGC is very rich in biodiversity hosting mostly Himalayan floral and faunal species. The existing Forested, grassland and aquatic ecosystems diversity boost the specific diversity along with genetic diversity by allowing balanced ecosystem within the campus. The species richness in various plantation areas shows high species diversity whereas other natural patches showing significant diversity. The campus is rich with various plants groups including flowerings plants, Gymnosperms, ferns, mosses and different fungal species.

4.5.2a Floral Diversity

Darjeeling Government College is situated in the Birch Hill in the northern part of Darjeeling town, at an altitude of 2100 mAMSL and is extended over an area of 3.45 acres. About 52.2% of the campus is covered lush green vegetation. Being a part of Darjeeling Himalaya which is an important and significant portion of Eastern Himalaya, the IUCN Recognized Hotspot of Biodiversity Conservation, our college campus is very rich and diverse in floral elements.

In a recent survey more than 204 species of higher plants belonging to 173 genera and 83 families were recorded including 174 species of angiosperm, 8 species of gymnosperms and 22 species of Pteridophytes. The diversified floral of the campus is an assemblage of almost all the habit groups of plants – trees, shrubs, herbs, climbers, epiphytes, parasite, annual, biennial, perennial, ephemeral etc. Huge numbers of medicinal plants, food, fodder, timber yielding plants, ornamental, ethno-medicinal and ethno-religious plants, rope and cordage, broom, thatching plants, aromatic plants etc are categories of plants on the basis of their utility and usage. Following tables (table 1 to 6) represent some of the components of rich flora of our college campus

Table 2: List of Tree species available in the campus

SL. No.	Species	Family	Local Name
01	<i>Magnolia doltsopa</i> (Buch.-Ham.ex DC.) Figlar	Magnoliaceae	Champ
02	<i>Camellia sasanqua</i> Thunb.	Theaceae	Camellia
03	<i>Saurauianapalensis</i> DC.	Actinidiaceae	Gagoon
04	<i>Elaeocarpus sikkimensis</i> Mast.	Elaeocarpaceae	Bhadrase
05	<i>Evodia fraxinifolia</i> (Hook.) Benth.	Rutaceae	
06	<i>Hovenia dulcis</i> Thunb.	Rhamnaceae	
07	<i>Acer laegatum</i> Wall.	Sapindaceae	
08	<i>Rhus succedanea</i> Linn.	Anacardiaceae	

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09	<i>Platanus acerifolia</i> (Aiton) Wall.	Platanaceae	Kapase
10	<i>Erythrina arborescence</i> Roxb.	Leguminosae	Faledo
11	<i>Eriobotrya petiolata</i> Hook.f.	Rosaceae	
12	<i>Exbucklandiaporopulnea</i> (R.Br. ex Griff) R.Br.	Hamamelidaceae	Peepul
13	<i>Brassaiopsis mitis</i> C.B. Clarke	Araliaceae	
14	<i>Symplocos lucida</i> (Thunb.) Siebold & Zucc	Symplocaceae	
15	<i>Pyrularia edulis</i> (Wall.) A.DC.	Santalaceae	
16	<i>Macaranga denticulata</i> (Blume) Mill. Arg.	Euphorbiaceae	Sindure
17	<i>Glochidion acuminatum</i> Mill. Arg.	Euphorbiaceae	
18	<i>Ficus nerifolia</i> Sm.	Moraceae	
19	<i>Ficus elastica</i> Roxb. ex Hornem.	Moraceae	
20	<i>Debregeasia longifolia</i> (Burm.f.) Wedd.	Urticaceae	
21	<i>Alnus nepalensis</i> D. Don.	Betulaceae	Utis
22	<i>Castanopsis hystrix</i> Hook.f. T. ex A.DC.	Fagaceae	Katus
23	<i>Salix babylonica</i> Linn.	Salicaceae	
24	<i>Trachycarpus martianus</i> (Wall. ex Mart.) H. Wendl.	Arecaceae	
25	<i>Rhododendron arboreum</i> Sm.	Ericaceae	Guras
26	<i>Machilus edulis</i> King ex Hook.f.	Lauraceae	Kawlo
27	<i>Persea odoratissima</i> (Nees) Kosterm	Lauraceae	

Table 3: List of Shrubby Species

SL. No.	Species	Family
01	<i>Mahonia nepalensis</i> DC. Ex Dippel	Berberidaceae
02	<i>Hypericum uralum</i> Buch.-Ham. Ex D. Don.	Hypericaceae
03	<i>Abutilon pictum</i> (Gillius ex Hook.) Walp.	Malvaceae
04	<i>Rubus ellipticus</i> Smith	Rosaceae
05	<i>Hydrangea heteromalla</i> D. Don.	Hydrangeaceae

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06	<i>Fuchsia corymbiflora</i> Ruiz & Pav.	Onagraceae
07	<i>Azalea pontica</i> Linn.	Ericaceae
08	<i>Vaccinium vacciniaceum</i> (Roxb.) Sleumer	Ericaceae
09	<i>Buddleja asiatica</i> Lour.	Buddlejaceae
10	<i>Brugmansia suaveolens</i> (Humb. & Bonpl ex Willd) Bercht. & J. Prels.	Solanaceae
11	<i>Cestrum aurantiacum</i> Lindl.	Solanaceae
12	<i>Cestrum fasciculatum</i> (Schltdl.) Miers	Solanaceae
13	<i>Cestrum nocturnum</i> Linn.	Solanaceae
14	<i>Cyphomandrabetacea</i> (Cav.) Sendtn.	Solanaceae
15	<i>Solanum donianum</i> Walp.	Solanaceae
16	<i>Acanthus illicifolius</i> Linn.	Acanthaceae
17	<i>Aconogonum molle</i> (D.Don.) H.Hrar	Polygonaceae

Table 4: List of herbaceous species

Sl No.	Name of the species	Family	Habitt
01	<i>Anemone polyanthes</i> D.Don	Ranunculaceae	Perennial Herb
02	<i>Anemone tetrasepala</i> Royle	Ranunculaceae	Perennial Herb
03	<i>Clematis buchananiana</i> DC.	Ranunculaceae	Perennial Herb
04	<i>Papaver macrostomum</i> Boiss. &A.Huet	Papaveraceae	Annual Herb
05	<i>Brassica juncea</i> (Linn.) Czern.	Brassicaceae	Annual Herb
06	<i>Capsella bursa-pastoris</i> (Linn.) Medik.	Brassicaceae	Annual Herb
07	<i>Cardamine hirsuta</i> Linn.	Brassicaceae	Annual Herb
08	<i>Cerastium glomeratum</i> Thuill.	Caryophyllaceae	Annual Herb
09	<i>Drymaria cordata</i> (Linn.) Willd. Ex Schuld.	Caryophyllaceae	Annual Herb
10	<i>Sagina japonica</i> (Sw.) Ohwi	Caryophyllaceae	Annual Herb

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11	<i>Stellaria media</i> (Linn.) Vill.	Caryophyllaceae	Annual Herb
12	<i>Stellaria uliginosa</i> Murray	Caryophyllaceae	Annual Herb
13	<i>Geranium nepalense</i> Sweet	Geraniaceae	Perennial Herb
14	<i>Oxalis corniculata</i> Linn.	Oxalidaceae	Perennial Herb
15	<i>Oxalis latifolia</i> Kunth	Oxalidaceae	Perennial Herb
16	<i>Tropaeolum majus</i> Linn.	Tropaeolaceae	Perennial Herb
17	<i>Impatiens arguta</i> Hook.f & Thomson	Balsaminaceae	Perennial Herb
18	<i>Impatiens graciliflora</i> Hook.f.	Balsaminaceae	Annual Herb
19	<i>Tetrastigma serrulatum</i> (Roxb.) Planch.	Vitaceae	Perennial Herb
20	<i>Crotalaria cytisoides</i> DC	Leguminosae	Perennial Herb
21	<i>Parochetus communis</i> D. Don	Leguminosae	Perennial Herb
22	<i>Trifolium repens</i> Linn.	Leguminosae	Perennial Herb
23	<i>Duchesnea indica</i> (Jacks.) Focke	Rosaceae	Perennial Herb
24	<i>Fragaria nubicola</i> (Lindl. Ex Hook.f.) Lacaita	Rosaceae	Perennial Herb
25	<i>Astilbe rivularis</i> Buch.-Ham. ex D. Don	Saxifragaceae	Perennial Herb
26	<i>Bergenia ciliata</i> (Haw.) Sternb.	Saxifragaceae	Perennial Herb
27	<i>Saxifraga stolonifera</i> L.f	Saxifragaceae	Annual Herb
28	<i>Edgaria darjeelingensis</i> C.B. Clarke	Cucurbitaceae	Annual Herb
29	<i>Sechium edule</i> (Jacq.) Sw.	Cucurbitaceae	Annual Herb
30	<i>Trichosanthes lepiniana</i> (Naudin)	Cucurbitaceae	Annual Herb

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	Cogn.		
31	<i>Hydrocotyle javanica</i> Thunb.	Apiaceae	Perennial Herb
32	<i>Hydrocotylesibthorpiodes</i> Lam.	Apiaceae	Annual Herb
33	<i>Oenanthe thomsonii</i> C.B. Clarke	Apiaceae	Annual Herb
34	<i>Hedera helix</i> Linn.	Araliaceae	Perennial Herb
35	<i>Galium mollugo</i> Linn.	Rubiaceae	Annual Herb
36	<i>Galium rotundifolium</i> Linn.	Rubiaceae	Annual Herb
37	<i>Ophiorrhiza treutleri</i> Hook.f.	Rubiaceae	Annual Herb
38	<i>Rubia cordifolia</i> Linn.	Rubiaceae	Perennial Herb
39	<i>Artemisia vulgaris</i> Linn.	Asteraceae	Perennial Herb
40	<i>Bidens pilosa</i> Linn.	Asteraceae	Annual Herb
41	<i>Crassocephalum crepidioides</i> (Benth.) S. Moore	Asteraceae	Annual Herb
42	<i>Dichrocephala integrifolia</i> (Linn.f.) Kuntze	Asteraceae	Annual Herb
43	<i>Erigeron bellidioides</i> (Buch.-Ham. ex D. Don) Benth. Ex C.B. Clarke	Asteraceae	Perennial Herb
44	<i>Erigeron canadensis</i> Linn.	Asteraceae	Annual Herb
45	<i>Eupatorium adenophorum</i> Spreng.	Asteraceae	Perennial Herb
46	<i>Gnaphalium affine</i> D. Don	Asteraceae	Perennial Herb
47	<i>Gynura cusimbua</i> (D. Don) S. Moore	Asteraceae	Perennial Herb
48	<i>Phlomoideshamosa</i> (Benth.) Mathiesen	Asteraceae	Annual Herb
49	<i>Siegesbeckia orientalis</i> Linn.	Asteraceae	Annual Herb
50	<i>Sonchus asper</i> (Linn.) Hill	Asteraceae	Annual Herb

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51	<i>Spilanthescmella</i> (Linn.) Linn.	Asteraceae	Annual Herb
52	<i>Youngia japonica</i> (Linn.) DC	Asteraceae	Annual Herb
53	<i>Campanula pallida</i> Wall.	Campanulaceae	Perennial Herb
54	<i>Lobelia nummularia</i> Lam.	Lobeliaceae	Annual Herb
55	<i>Lysimachia japonica</i> Thunb.	Primulaceae	Annual Herb
56	<i>Primula malacoides</i> Franch.	Primulaceae	Annual Herb
57	<i>Ipomoea indica</i> (Burm.) Merr.	Convolvulaceae	Perennial Herb
58	<i>Ipomoea purpurea</i> (Linn.) Roth	Convolvulaceae	Perennial Herb
59	<i>Nicandra physalodes</i> (Linn.) Gaertn.	Solanaceae	Annual Herb
60	<i>Solanum americanum</i> Mill.	Solanaceae	Perennial Herb
61	<i>Calceolaria mexicana</i> Benth.	Scrophulariaceae	Annual Herb
62	<i>Cymbalaria muralis</i> P. Gaertn., B.Mey. & Scherb.	Scrophulariaceae	Annual Herb
63	<i>Lindenbergia grandiflora</i> (Buch.- Ham. ex D. Don) Benth.	Scrophulariaceae	Perennial Herb
64	<i>Lindenbergia muraria</i> (Roxburgh ex D.Don) Bruhl	Scrophulariaceae	Annual Herb
65	<i>Mazus pumilus</i> (Burm.f.) Steenis	Scrophulariaceae	Annual Herb
66	<i>Mazus surculosus</i> D.Don	Scrophulariaceae	Annual Herb
67	<i>Torenia fournieri</i> Linden ex E. Fourn	Scrophulariaceae	Annual Herb
68	<i>Veronica japonica</i> Steud.	Scrophulariaceae	Annual Herb
69	<i>Aeschynanthus parviflorus</i> (D.Don) Spreng.	Gesneriaceae	Perennial Herb
70	<i>Achimenes longiflora</i> DC.	Gesneriaceae	Perennial Herb
71	<i>Chirita pumila</i> D.Don	Gesneriaceae	AH
72	<i>Hypoestestriflora</i> (Frossk.) Roem. &	Acanthaceae	Perennial

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	Schult.		Herb
73	<i>Craniotome furcata</i> (Link) Kuntze	Lamiaceae	Annual Herb
74	<i>Clinopodium umbrosum</i> (M.Bieb.) Rchb.	Lamiaceae	Perennial Herb
75	<i>Plantago major</i> Linn.	Plantaginaceae	Perennial Herb
76	<i>Chenopodium album</i> Linn.	Chenopodiaceae	Perennial Herb
77	<i>Fagopyrum esculentum</i> Moench	Polygonaceae	Perennial Herb
78	<i>Fallopiapterocarpa</i> (Meisn.) Holub	Polygonaceae	Annual Herb
79	<i>Persicaria capitata</i> (Buch.-Ham. ex D. Don) H.Gross	Polygonaceae	Perennial Herb
80	<i>Persicaria chinensis</i> (Linn.) H. Gross	Polygonaceae	Perennial herb
81	<i>Polygonum runcinatum</i> Buch.-Ham. ex D. Don	Polygonaceae	Annual Herb
82	<i>Rumex nepalensis</i> Spreng.	Polygonaceae	Perennial Herb
82	<i>Peperomia tetraphylla</i> (Forst.f) Hook & Arnott	Piperaceae	Perennial Herb
84	<i>Chamaebainia cuspidata</i> Wight	Urticaceae	Perennial Herb
85	<i>Elatostema sessile</i> J.R.Frost. & G.Frost.	Urticaceae	Annual Herb
86	<i>Girardinia diversifolia</i> (Link) Friss	Urticaceae	Perennial Herb
87	<i>Pilea umbrosa</i> Blume	Urticaceae	Perennial Herb
88	<i>Pouzolzia hirta</i> Blume ex Hassk.	Urticaceae	Perennial Herb
89	<i>Urtica dioica</i> Linn.	Urticaceae	Perennial

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			Herb
90	<i>Urtica parviflora</i> Roxb.	Urticaceae	Perennial Herb

Table 5: List of Monocotyledonous Species

Sl. No	Name of the species	Family	Habit	Remarks
1.	<i>Agrostophyllum callosum</i> Rchb.f.	Orchidaceae	Perennial Herbs	Epiphytic
2.	<i>Coelogyne nitida</i> (Wall. Ex D.Don) Lindl.	Orchidaceae	Perennial Herbs	Epiphytic
3.	<i>Coeolgyne cristata</i> Lindl.	Orchidaceae	Perennial Herbs	Epiphytic
4.	<i>Epigeneium rotundatum</i> (Lindl.) Summerh.	Orchidaceae	Perennial Herbs	Epiphytic
5.	<i>Eria coronaria</i> (Lindl.) Rchb.f.	Orchidaceae	Perennial Herbs	Epiphytic
6.	<i>Otochilus albus</i> Lindl.	Orchidaceae	Perennial Herbs	Epiphytic
7.	<i>Phalaenopsis taenialis</i> (Lindl.) Christenson & Pradhan	Orchidaceae	Perennial Herbs	Epiphytic
8.	<i>Pleione praecox</i> (Smith) D.Don	Orchidaceae	Perennial Herbs	Epiphytic
9.	<i>Cautleya spicata</i> (Smith) Baker	Zingiberaceae	Perennial Herbs	Epiphytic and terrestrial
10.	<i>Globbahookeri</i> C.B. Clarke ex Baker	Zingiberaceae	Perennial Herbs	Chasmophyte
11.	<i>Hedychium spicatum</i> Smith	Zingiberaceae	Perennial Herbs	Chasmophyte
12.	<i>Musa sapientum</i> Linn.	Musaceae	Perennial Herbs	Terrestrial
13.	<i>Canna indica</i> Linn.	Cannaceae	Perennial Herbs	Terrestrial
14.	<i>Chlorophytum</i>	Liliaceae	Perennial	Terrestrial

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	<i>nepalense</i> (Lindl.) Baker		Herbs	
15.	<i>Hemerocallis fulva</i> (Linn.) Linn.	Liliaceae	Perennial Herbs	Terrestrial
16.	<i>Ophiopogon intermedius</i> D.Don	Liliaceae	Perennial Herbs	Terrestrial
17.	<i>Ophiopogon clarkei</i> Hook. f.	Liliaceae	Perennial Herbs	Terrestrial
18.	<i>Zephyranthes carinata</i> Herb.	Liliaceae	Perennial Herbs	Terrestrial
19.	<i>Commelina sikkimensis</i> C.B. Clarke	Commelinaceae	Perennial Herbs	Terrestrial
20.	<i>Cyanotis vaga</i> (Lour.) Schult. &Schult.f	Commelinaceae	Herb	Terrestrial
21.	<i>Streptolirion volubile</i> Edgew.	Commelinaceae	Herb	Terrestrial
22.	<i>Trachycarpus martianus</i> (Wall. ex Mart.) H. Wendl.	Arecaceae	Tree	Terrestrial
23.	<i>Arisaema concinnum</i> Schott	Araceae	Perennial Herbs	Terrestrial
24.	<i>Arisaema costatum</i> (Wall.) Mart.	Araceae	Perennial Herbs	Terrestrial
25.	<i>Arisaema tortuosum</i> (Wall.) Schott	Araceae	Perennial Herbs	Terrestrial
26.	<i>Gonatanthus pumilus</i> (Don) E. & Krause.	Araceae	Perennial Herbs	Terrestrial
27.	<i>Philodendron bipinnatifidum</i> Schott ex Endl.	Araceae	shrub	Terrestrial
28.	<i>Zantedeschia aethiopica</i> (Linn.) Spreng.	Araceae	Perennial Herbs	Terrestrial
29.	<i>Carex indica</i> Linn.	Cyperaceae	Perennial Herbs	Terrestrial
30.	<i>Cyperus rotundus</i> Linn.	Cyperaceae	Perennial Herbs	Terrestrial
31.	<i>Cynodon dactylon</i> (Linn.) Pers.	Poaceae	Perennial Herbs	Terrestrial

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32.	<i>Oplismeusburmanii</i> (Retz.) P. Beauv.	Poaceae	Perennial Herbs	Terrestrial
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Table 6: List of Gymnosperms

Sl. No.	Name	Family	Habit
1.	<i>Cycas pectinata</i> Buch.-Ham.	Cycadaceae	shrub
2.	<i>Abies densa</i> Griff.	Pinaceae	Tree
3.	<i>Araucaria columnaris</i> (G. Forst.) Hook.	Araucariaceae	Tree
4.	<i>Cryptomeria japonica</i> (Thunb. Ex L.f.) D.Don	Cupressaceae	Tree
5.	<i>Chamaecyparis pisifera</i> (Siebold &Zucc.) Endl.	Cupressaceae	Tree
6.	<i>Cupressus cashmeriana</i> Royle ex Carrière	Cupressaceae	Tree
7.	<i>Thuja occidentalis</i> Linn.	Cupressaceae	Tree
8.	<i>Taxus baccata</i> Linn.	Taxaceae	Tree

Table 7: List of Pteridophytes recorded for the campus

Sl. No.	Name	Family	Ann
1.	<i>Huperzia pulcherrima</i> (Wall. ex Hook. & Grev.) Pic. Serp.	Lycopodiaceae	Perennial hrerb
2.	<i>Huperziahamiltonii</i> (Spreng.) Trevis.	Lycopodiaceae	Perennial hrerb
3.	<i>Selaginella monospora</i> Spreng.	Selaginellaceae	Annual herb
4.	<i>Selaginella chrysocaulos</i> (Hook. et Grev) Spring.,	Selaginellaceae	Annual herb
5.	<i>Equisetum diffusum</i> D. Don.	Equisetaceae	Annual herb

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6.	<i>Dennstaedtia appendiculata</i> (Wall. ex Hook) J. Sm	Dennstaedtiaceae	Annual herb
7.	<i>Pteris wallichiana</i> J. Agardh	Pteridaceae	Annual herb
8.	<i>Pteris quadriaurita</i> Retz.	Pteridaceae	Annual herb
9.	<i>Cheilanthes formosana</i> Hayata	Pteridaceae	Annual herb
10.	<i>Vittaria flexuosa</i> Fee.	Pteridaceae	Annual herb
11.	<i>Asplenium ensiforme</i> Wall. ex Hook. & Grev.	Aspleniaceae	Annual herb
12.	<i>Asplenium yoshinagae</i> Makino.	Aspleniaceae	Annual herb
13.	<i>Deparia boryana</i> (Willd.) M. Kato.	Woodsiaceae	Annual herb
14.	<i>Deparia petersenii</i> (Kunze) M. Kato.	Woodsiaceae	Annual herb
15.	<i>Athyrium foliosum</i> T. Moore ex R. Sim.,	Woodsiaceae	Annual herb
16.	<i>Thelypteris auriculata</i> (J. Sm.) K. Iwats	Thelypteridaceae	Annual herb
17.	<i>Dryopteris juxta posita</i> Christ.	Dryopteridaceae	Annual herb
18.	<i>Polystichum lentum</i> (D. Don) T. Moore.	Dryopteridaceae	Annual herb
19.	<i>Oleandra wallichii</i> (Hook.) C. Presl	Oleandraceae	Annual herb
20.	<i>Lepisorus contortus</i> (Christ) Ching.	Polypodiaceae	Annual herb
21.	<i>Microsorium membranaceum</i> (D. Don) Ching.	Polypodiaceae	Annual herb
22.	<i>Polypodiodes lachnopus</i> (Wall. ex Hook.) Ching.	Polypodiaceae	Annual herb

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4.5.2b Exotic Foral Elements:

Flora of Darjeeling is an excellent amalgamation of native and exotic elements of which some species grow very aggressively and are invasive in nature. They easily can replace the native species, disturb the distort the balance of plant community and ecosystem. Likewise, campus flora also have considerable number of exotic plants and they are quite aggressive. Most of them are ornamental and escaped from cultivation. Following table represent few of the exotic species found in the college campus.

Table 8: List of some exotic species from college campus

Sl.No.	Species	Family
1	<i>Mahonia nepalensis</i> DC. Ex Dippel	Berberidaceae
2	<i>Eupatorium adenophorum</i> Spreng.	Asteraceae
3	<i>Ipomoea purpurea</i> (Linn.) Roth	Convolvulaceae
4	<i>Nicandra physalodes</i> (Linn.) Gaertn.	Solanaceae
5	<i>Calceolaria mexicana</i> Benth.	Scrophulariaceae
6	<i>Achimenes longiflora</i> DC.	Gesneriaceae
7	<i>Canna indica</i> Linn.	Cannaceae
8	<i>Araucaria columnaris</i> (G. Forst.) Hook.	Araucariaceae
9	<i>Cryptomeria japonica</i> (Thunb. Ex L.f.) D. Don	Cupressaceae
10	<i>Chamaecyparis pisifera</i> (Siebold & Zucc.) Endl.	Cupressaceae

4.5.2c Threatened Species and their conservation:

Darjeeling Govt. College Campus is also home for two Threatened species of plants-(i) *Cycas pectinata* Buch.-Ham. of family Cycadaceae, which is an ornamental gymnosperm and enlisted as 'Vulnerable' in the IUCN Red List and (ii) *Taxus baccata* Linn. of Taxaceae enlisted as 'Least Concern' species by IUCN. This is also a gymnosperm species, commonly known as European yew and of great economic value due to its anti-cancerous property and other medicinal value. Another Endemic cucurbit, *Edgariadarjeelingensis* C.B. Clarke, which is restricted to Darjeeling hill only, is also available in this campus.

Conservation of these threatened species is one of the topmost priorities of the college authority and thus several conservational measures have been taken such as creating awareness among the

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students regarding their importance and need for the conservation, regular monitoring and maintenance of good heaths of these plants, preventing them from anthropogenic disturbances by fencing, etc. Moreover, the campus has a single plant of *Platanus acerifolia* (Aiton) Wall. of Platanaceae, which is locally Rare and only 2 to 3 individuals are available in Darjeeling and surrounding areas.

Table 9: List of Medicinal plants

Sl No.	Name of the species; Family	Habitt	Medicinal use
01	<i>Drymaria cordata</i> (Linn.) Willd. Ex Schul.; Caryophyllaceae	Annual Herb	Throat pain, sinuses, and tonsillitis.
02	<i>Oxalis corniculata</i> Linn.; Oxalidaceae	Perennial Herb	antioxidant, anti-cancer, anthelmintic, anti-inflammatory, antimicrobial
03	<i>Astilbe rivularis</i> Buch.-Ham. ex D. Don; Saxifragaceae	Perennial Herb	Bone fracture, dislocation, cough, cold and body pain.
04	<i>Bergenia ciliata</i> (Haw.) Sternb.; Saxifragaceae	Perennial Herb	Cough and cold
05	<i>Saxifraga stolonifera</i> L.f.; Saxifragaceae	Annual Herb	Boils, abscesses, and snake bites
06	<i>Edgariadarjeelingensis</i> C.B. Clarke; Cucurbitaceae	Annual Herb	Antioxidant, anti-cancerous, ethnoveterinary use
07	<i>Sechium edule</i> (Jacq.) Sw.; Cucurbitaceae	Annual Herb	Asthma, bronchitis, cancer, constipation, diabetes, jaundice
08	<i>Trichosantheslepiniana</i> (Naudin) Cogn.; Cucurbitaceae	Annual Herb	Laxative
09	<i>Hydrocotylejavanica</i> Thunb.; Apiaceae	Perennial Herb	Whole plant is used as a blood purifier and stomachic
10	<i>Ophiorrhiza treutleri</i> Hook.f.; Rubiaceae	Annual Herb	Snakebites, ulcers, skin disorders

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संजय चक्र

11	<i>Rubia cordifolia</i> Linn.;Rubiaceae	Perennial Herb	Skin problem
12	<i>Artemisia vulgaris</i> Linn.; Asteraceae	Perennial Herb	Skin infection
13	<i>Eupatorium adenophorum</i> Spreng.; Asteraceae	Perennial Herb	To stop bleeding
14	<i>Spilanthesacmella</i> (Linn.) Linn.; Asteraceae	Annual Herb	Throat infection
15	<i>Plantago major</i> Linn.; Plantaginaceae	Perennial Herb	Antimicrobial, antiviral, and anti-inflammatory effects, and have wound- healing properties
16	<i>Chenopodium album</i> Linn.; Chenopodiaceae	Perennial Herb	Anthelmentic
17	<i>Fagopyrum esculentum</i> Moench;Polygonaceae	Perennial Herb	Weekness, stomach problem
18	<i>Girardinia diversifolia</i> (Link) Friss; Urticaceae	Perennial Herb	Bodyache, Bone fracture, high blood pressure
19	<i>Urtica dioca</i> Linn.; Urticaceae	Perennial Herb	Bodyache, high blood pressure
20	<i>Urtica parviflora</i> Roxb.; Urticaceae	Perennial Herb	Bone fracture, high blood pressure

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Figure 1: a-Patch of *Rhododendron* forest, b- *Platanus acerifolius*, c- *Rhododendron arboreum*, d- *Camellia* sp., e- *Lyonia ovalifolia*, f- *Taxus buccata*, g- epiphytes on *Rhododendron*, h- *T. buccata*, i- *Araucaria* sp., j- *Cycas pectinate*, k- *Thuja occidentalis*, l- *Dracaena* sp.

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Figure 2: Some of Ferns, Mosses and Orchids of college campus

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Figure 3: Some aroids, medicinal herbs and Wild flowers

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4.5.2d Faunal Diversity

The most vulnerable and hazardous environments in the world are hills or mountains, harboring rich repositories of biodiversity. In the year 2010, mountains were recognized as important ecosystems by the Convention on Biological Diversity (CBD) and its special program on 'mountain biodiversity' which aims to reduce the loss of biological diversity in the mountains at global, regional, and national levels. Darjeeling Hills covers a variety of ecosystems in India and is the main source of the country's economy as it provides a site for ecotourism and an important habitat of many valuable floral and faunal species.

The faunal diversity of the campus includes a good number of birds, a large number of insects, and also few mammalian species. In a recent survey, more than 32 species of insects belonging to 6 orders were recorded including 5 species of butterflies and 8 species of moths. 48 bird species were recorded including migrants and local migrants. Seven mammalian species including Hodgson's Common Giant Flying Squirrel and Himalayan yellow-throated marten were also recorded within our college campus.

4.5.2e Avifaunal diversity within the College Campus (Table-10)

Order	Family	Sl. No.	Name	Status
Falconiformes	Falconidae	1.	Common Kestrel (<i>Falco tinnuunculus</i>)	Resident
Columbiformes	Columbidae	2.	Oriental Turtle Dove (<i>Streptopella orientalis</i>)	Resident & mig
		3.	Wedge-tailed green pigeon (<i>Treron sphenurus</i>)	Resident
Cuculiformes	Cuculidae	4.	Large Hawk Cuckoo (<i>Hierococcyx sparveroides</i>)	Resident & part
Strigiformes	Strigidae	5.	Asian Barred Owlet (<i>Glacidium cuculoides</i>)	Resident
Piciformes	Ramphastidae	6.	Great Barbet (<i>Megalaima virens</i>)	Resident
	Picidae	7.	Darjeeling Woodpecker (<i>Dendrocopos darjellensis</i>)	Resident

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		8.	Lesser Yellownappe (<i>Picus chlorolophus</i>)	Resident
Passeriformes	Oriolidae	9.	Maroon Oriole (<i>Oriolustrailii</i>)	Resident
	Rhipiduridae	10.	White-throated Fantail (<i>Rhipidura albicollis</i>)	Resident
	Corvidae	11.	Yellow-billed Blue Magpie (<i>Urocissa flavirostris</i>)	Resident
		12.	Grey Treepie (<i>Dendrocitta formosae</i>)	Resident
		13.	Large-billed crow (<i>Corvus macrorhynchos</i>)	Resident
	Paridae	14.	Green-backed Tit (<i>Parus monticolus</i>)	Resident
	Aegithalidae	15.	Black-throated Tit (<i>Aegithalos concinnus</i>)	Resident
	Hirundinidae	16.	Barn Swallow (<i>Hirundo rustica</i>)	Widespread Re
	Pycnonotidae	17.	Striated Bulbul (<i>Pycnonotus striatus</i>)	Resident
		18.	Himalayan Bulbul (<i>Pycnonotus leucogenys</i>)	Resident
		19.	Mountain Bulbul (<i>Ixos mcclellandii</i>)	Resident
		20.	Black Bulbul (<i>Hypsipetes leucocephalus</i>)	Resident
	Sylviidae	21.	Sulphur-bellied Warbler (<i>Phylloscopus griseolus</i>)	Local migrant
		22.	Grey-hooded Warbler (<i>Phylloscopus xanthoschistos</i>)	Resident
		23.	Chestnut-crowned Warbler (<i>Seicercus castaneiceps</i>)	Resident
	Timaliidae	24.	Pygmy Wren Babbler (<i>Pnoepyga pusilla</i>)	Resident
		25.	Rusty-cheeked Scimitar Babbler (<i>Pomatorhinus erythrogenys</i>)	Resident
		26.	Coral-billed Scimitar Babbler (<i>Pomatorhinus ferruginosus</i>)	Resident
		27.	Chestnut-crowned Laughingthrush	Resident

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			(<i>Garrulax erythrocephalus</i>)	
		28.	Red-billed Leiothrix (<i>Leiothrixlutea</i>)	Resident
		29.	Bar-throated Siva (<i>Siva strigula</i>)	Resident
		30.	Red-tailed Minla (<i>Minlaignotincta</i>)	Resident
		31.	Rufous-winged Fulvetta (<i>Pseudominlacastaneiceps</i>)	Resident
		32.	White-browed Fulvetta (<i>Fulvettavinipectus</i>)	Resident
		33.	Rufous Sibia (<i>Malaciuscapistratus</i>)	Resident
		34.	Whiskered Yuhina (<i>Yuhinaflavicollis</i>)	Resident
	Sittidae	35.	White-tailed Nuthatch (<i>Sittahimalayensis</i>)	Resident
	Sturnidae	36.	Common Hill Myna (<i>Gracularelignosa</i>)	Resident
	Turdidae	37.	Blue Whistling Thrush (<i>Myophonuscaerulus</i>)	Resident
		38.	Scaly Thrush (<i>Zootheradauma</i>)	Local migrant
	Muscicapidae	39.	Himalayan Bluetail (<i>Tarsigerrufulatus</i>)	Resident
		40.	Large Niltava (<i>Niltava grandis</i>)	Resident
		41.	Grey Bushchat (<i>Saxicola ferreus</i>)	Resident
		42.	Verditer Flycatcher (<i>Eumyiassthalassinus</i>)	Local migrant
		43.	Grey-headed Canary Flycatcher (<i>Culicicapaceylonensis</i>)	Resident
	Chloropseidae	44.	Golden-fronted Leafbird (<i>Chloropsiscochinchinensis</i>)	Resident
	Dicaeidae	45.	Fire-breasted Flowerpecker (<i>Dicaeumignipectus</i>)	Resident
	Nectariniidae	46.	Green-tailed Sunbird (<i>Aethopyga nipalensis</i>)	Resident
	Passeridae	47.	House Sparrow	Widespread res

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			(<i>Passerdomesticus</i>)	
	Fringillidae	48.	Dark-breasted Rosefinch (<i>Carpodacusnipalensis</i>)	Resident

Note: all the birds encountered within the college campus are of least concern under IUCN status.

Reference: “Birds of the Indian Subcontinent” by Richard Grimmet, Carol Inskipp, Tim Inskipp.

4.5.2f Mammals

The following mammals are observed inside the college campus:

Order: Eulipotyphla

Family: Soricidae (Table-11)

Sl. No.	Common Name	Scientific name
1.	Grey Musk Shrew or House Shrew	<i>Suncus murinus</i>

Order: Rodentia

Family: Sciuridae

Sl. No.	Common Name	Scientific name
2.	Orange-bellied Himalayan squirrel	<i>Dremomyslokriah</i>
3.	Hodgson’s Common Giant Flying Squirrel	<i>Petauristamagnificus</i>

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Family: Muridae

Sl. No.	Common Name	Scientific name
4.	House Mouse	<i>Mus musculus</i>

Order: Carnivora

Family: Canidae

Sl. No.	Common Name	Scientific name
5.	Golden jackal	<i>Canis aureus</i>

Family: Mustelidae

Sl. No.	Common Name	Scientific name
6.	Himalayan yellow-throated marten	<i>Martes flavigula</i>
7.	Yellow-bellied Weasel	<i>Mustela kathiah</i>

Note: All the mammalian species encountered within the college campus are of least concern under the IUCN category.

Reference: “Indian Mammals: A Field Guide” by Vivek Menon.

4.5.2f Insects

The following insects are found inside the college campus: (Table-12)

Insect Order	Common Name	Scientific Name
Mantodea	The false garden mantis	<i>Pseudomantisalbofimbriata</i>
	Praying mantis	<i>Mantis religiosa</i>
Mecoptera	Scorpion Fly	<i>Panorpa communis</i>
Diptera	Black flies	<i>Simulium sp.</i>
	Housefly	<i>Musca domestica</i>
	Nonbiting <u>midge</u> s	<i>Chironomus sp.</i>
Lepidoptera	Tortoiseshell butterfly	<i>Aglossispp</i>

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	Bispost royal butterfly	<i>Ancemaspp</i>
	Autumn leaf butterfly	<i>Doleschalliaspp</i>
	Tailed rustic butterfly	<i>Vagransspp</i>
	Red spot Jezebel butterfly	<i>Delias decombesi</i>
	Grey double-bristled hawkmoth	<i>Notonagemia analis</i>
	Lesser cream wave moth	<i>Scopula ferrineata</i>
	Vine bud moth	<i>Ampelophagathomasi</i>
	Bivinicula moth	<i>Bivinicula spp</i>
	Palpita moth	<i>Palpitaspp</i>
	Hydrilla moth	<i>Paraponyxspp</i>
	Nola moth	<i>Nolaspp</i>
	Psyra moth	<i>Psyraspp</i>
Coleoptera	Stag beetle	<i>Odontolabisalces</i>
	Click beetles	<i>Cardiophorus flexus</i>
	”	<i>Conoderuslongipenis</i>
	”	<i>Melanotusfuscus</i>
	-	<i>Phorocardiusmoorii</i>
Hymenoptera	Bumblebee	<i>Bombus haemorrhoidalis</i>
	-	<i>Bonbusorientalis</i>
	Flavescent Bumble Bee	<i>Bombus flavescens</i>

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	Orange-legged Bumble Bee	<i>Bombus eximius</i>
	Asian honey bee	<i>Apis cerana</i>
	Rock bee or giant honey bee	<i>Apis dorsata</i>
	Western honey bee or European honey bee	<i>Apis mellifera</i>
	Stingless bee	<i>Trigona sp.</i>

References: “Encyclopaedia of Insects” by Resh and Carde.
“The Insects: An Outline of Entomology” by Gullan and Cranston.

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Blue Whistling Thrush



Bar-throated Siva



Green Tailed Sunbird



Red-billed Leiothrix



Asian Barred Owlet



Rufous-Winged Fulvetta



Red-tailed Minla



Oriental Turtle Dove

Pic 8 Types of birds that visit the campus.

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4.5.3 Green Initiatives taken by the college.

- NSS, DGC organized an Interactive Session with Zero Waste Himalaya and Nat Geo Peer Educators for its stakeholders on 10.03.2022.



Pic 9 Interactive Session with Zero Waste Himalaya and Nat Geo Peer Educators on 10.03.2022

- NSS, DGC observed Himalayan Cleanup in the campus on 27.05.2022. In this event 35 volunteers actively participated. They collected wastes from the parking lot opposite to the college, brought it to college campus and did waste auditing



Pic 10 Waste auditing under Himalayan Cleanup in the campus on 27.05.2022.

- Ban on use of Plastic - Since the college is declared as a plastic free zone, the use of plastic bags is discouraged within the campus. Even with such awareness some plastic waste enters into college these plastics are collected weekly by the volunteers of NSS and NCC and are handed over to the Municipal Vehicle. The NSS every year makes Eco-Bricks from the plastic pet bottle collected in and around the campus

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Pic 11 Students regularly working for plastic free campus.

- Landscaping with trees and plants- The College every year organizes various Plantation programs in the College Campus. The Plantation Program plants various indigenous species of ornamental, flowering, medicinal, wild Orchids, climbers and fruits trees. The college students during regular cleaning and plantation drives landscape trees and plants which makes the college clean and tidy. The NSS and NCC Unit of the college organizes and participates in various plantation drives outside the college in collaboration with local organizations and community.



Pic 12 Landscaping with trees and plants

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- NSS Units in collaboration with NCC Unit of the college organized a hiking cum plastic waste collection at and around Tiger Hill, Sanchel Temple area on 11.12.2021. Around 45 volunteers along with Program officer actively participated in said event (Pic13).



Pic 13 Hiking cum plastic waste collection at and around Tiger Hill, Sanchel Temple area on 11.12.2021.



Pic 14 Glimpses of activities during hiking cum plastic waste collection at and around Tiger Hill, Sanchel Temple area on 11.12.2021.

- NSS, DGC observed Himalayan Cleanup in the campus on 27.05.2022. In this event 30-35 volunteers actively participated. Our volunteers cleaned up the Multilevel Car Parking lot Area, opposite to the college, brought it to college campus and did waste auditing

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Pic 15 cleanup and waste auditing under Himalayan Cleanup in the campus on 27.05.2022.

- SWACHHATA RALLY- The N.S.S Unit of the college participated in the Swachhata Rally from Darjeeling Railway station to Southfield College and attended the seminar on ‘Swachhata Action Plan’, jointly organised by NSS Salesian College and Southfield College.



Pic 16 Swachhata Rally

- volunteers from the college participated in two days’ residential workshop on the theme ZERO WASTE HIMALAYA at Mirik Busty, 4th-5th August, 2018 jointly organised by Zero Waste Himalaya and WWF (Pic 1a-b).

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Pic 17- Group Photograph with the entire team in the workshop (a). One of our volunteers, Miss Sumitra Darjee, Dept. of Botany presenting her findings and observations in the workshop (b).

On 9th August 2018 volunteers participated in the event on the theme “PLASTIC FREE DARJEELING” and rallied around the town carrying placards with messages. On next day i.e. 10th August, 2018 five NSS volunteers from our college gave presentation at St. Josephs’ College, Darjeeling on the theme “Growing level of pollution in Darjeeling”.



Pic 18 Volunteers alongwith program officer, Dr. Sonam Lama in an awareness program on Plastic pollution under “Plastic Freedom Challenge” at Chowrasta - 9/08/2018.

- AWARENESS PROGRAMME ON ELECTRONIC WASTE- An awareness programme on electronic waste (E-Waste) by All India Women’s Conference (AIWC) Darjeeling in collaboration with Hulladek (Hungry for waste) was organized by Seminar and Conference Committee in association with NSS, Darjeeling Government College on 18.11. 2022. The Resource person was Ms. Arati Sharma. Both the NSS Units participated in the programme.

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Pic 19 AWARENESS PROGRAM on Electronic waste (E-Waste) on 18.11.2022.

- NSS Unit of Darjeeling Government College collaborated with P.G. Raja NL Khan College, Midnapore, to organize an awareness rally on “Water Conservation among the tourist in Darjeeling” held on 13.04.2023 at Chowrasta, Darjeeling. (Pics-2,3,4,5)

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Pic 20 - An awareness rally on “Water conservation among the tourist in Darjeeling” with students from P.G. Raja NL Khan College, Midnapore on 13.04.2023

- NSS Unit of Darjeeling Government College in collaboration with NCC, Unit of Darjeeling Government College organized a series of programs relating to World Environment Day,2023. All the three events planned were very successful.

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- (a) Special Talk on environmental protection on 02.06.2023
(b) Campus Cleaning on 03.06.2023
(c) Tree Plantation and cleaning drive on 05.06.2023

To,
Officer-in-Charge
Darjeeling Govt. College
Darjeeling

Date: 31.05.2023

Subject: Application for holding programs relating to World Environment Day, 2023

Respected Sir,

This is to inform you that as per the directives received from higher authorities, we, NSS volunteers and NCC cadets of Darjeeling Govt. College have decided to hold following programs relating to World Environment Day, 2023.

1. Special talk on Environment protection at Seminar Hall-02.06.2023, 12 noon- 1pm.
2. Campus Cleaning - 03.06.2023, 11am onwards.
3. Tree Plantation, weeding and cleaning- 05.06.2023, 11am onwards.

Therefore, we request you to kindly permit us to hold the program.

Thanks

Dr. Sonam Lama
Program Officer
NSS, Unit-I
Darjeeling Govt. College

Prof. Nirmal Subba
ANO
NCC, BN-5
Darjeeling Govt. College

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NOTICE

Date: 01.06.2023

This is to inform all concerned that as part of World Environment Day, 2023 observance, NSS and NCC, DGC is organizing a brief talk session relating to environment awareness and protection on 02.06.2023, 12 noon onwards at Central Seminar Hall. The following two faculties will deliver their talks on topics mentioned alongside-

1. Prof. Harvey Garang, Assistant Professor, Dept. of Zoology- Microplastics-A silent killer.
2. Dr. Sonam Lama, Assistant Professor, Dept. of Geography- Environmental Degradation in Darjeeling Himalaya.

Therefore, all the interested volunteers, Cadets, Students and teachers are requested to attend the same.

Dr. Sonam Lama
Program Officer, NSS, Unit-I
Darjeeling Govt. College

Prof. Nirmal Subba
ANO, BN-5
Darjeeling Govt. College

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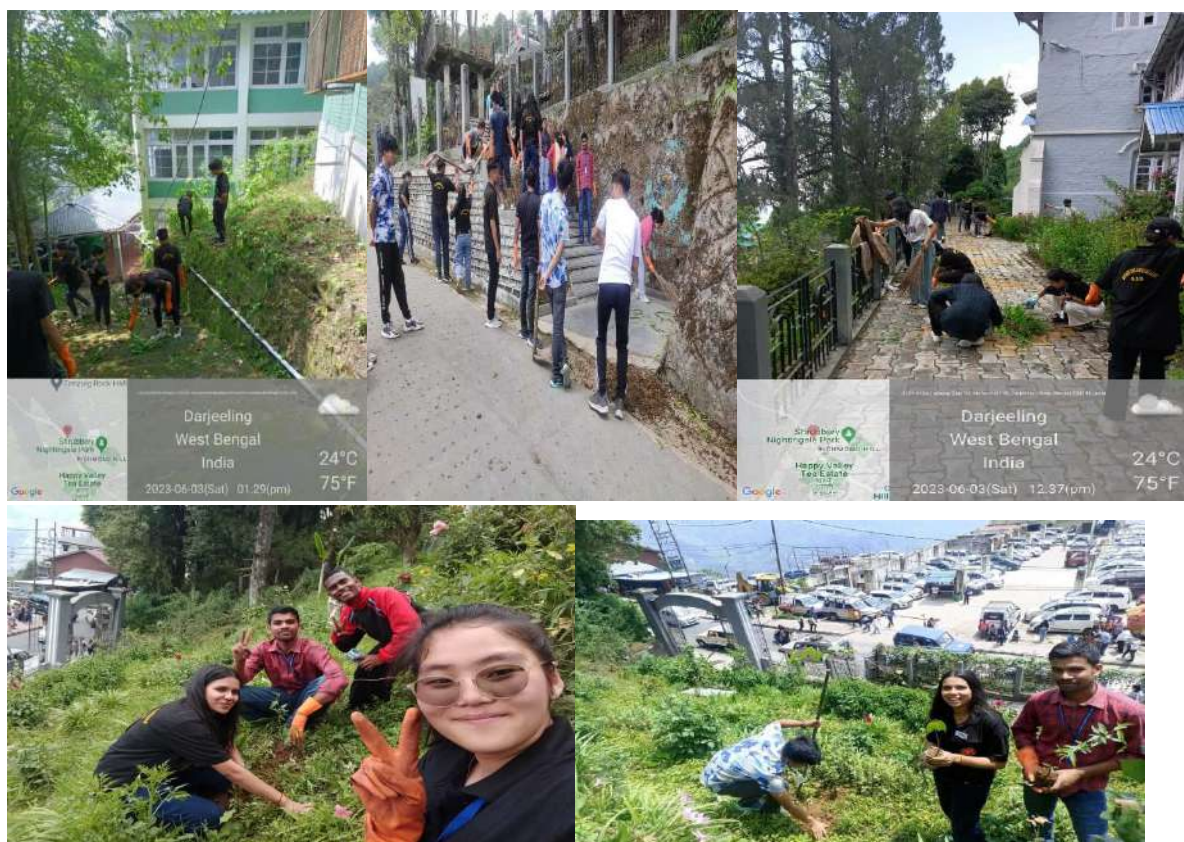
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Pic 21 Special Talk on Environment protection (02.06.2023) , Campus Cleaning drive(03.06.2023) and Tree Plantation (05.06.2023)

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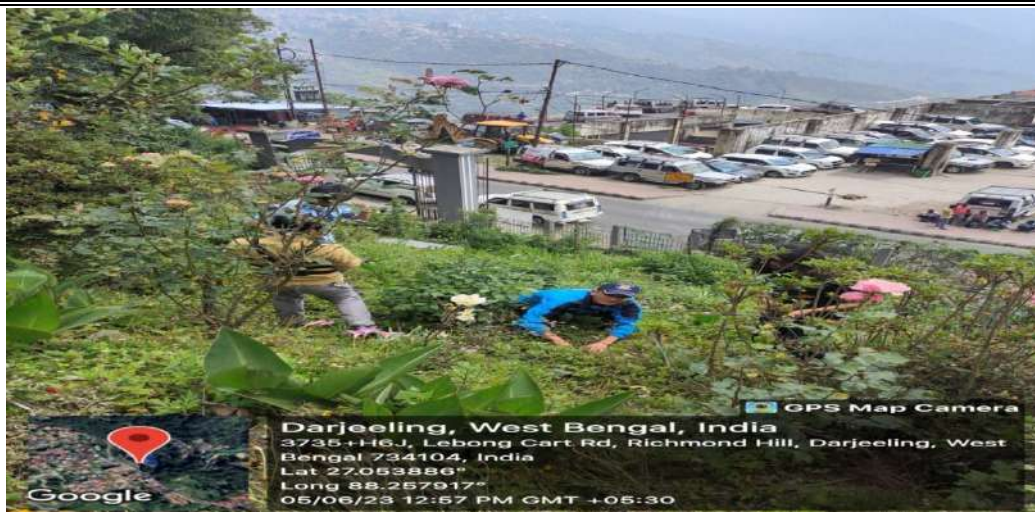
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Pic 22NCC Unit and NSS Unit of Darjeeling Government College Observing World Environment Day 2023

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Pic 23 Plantation and Landscaping with trees and plants

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Pic 24 Placards showing scientific and local names of trees inside the campus

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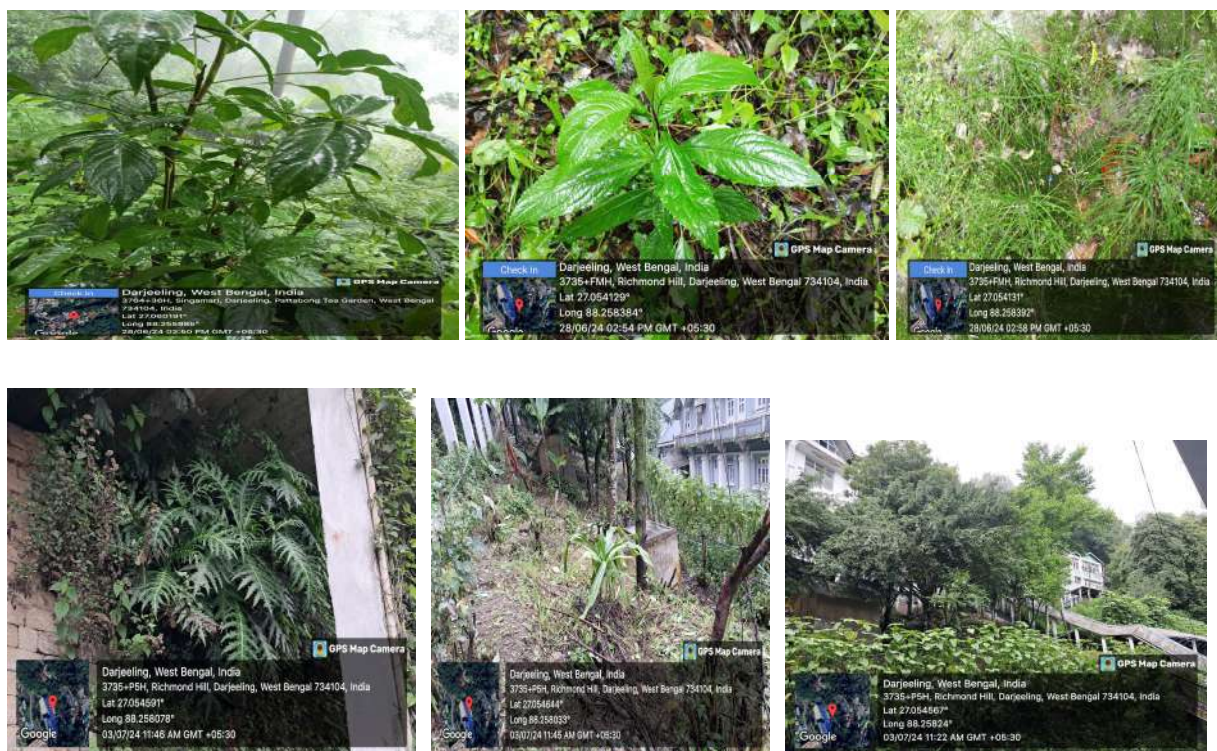


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Pic 25. Compost Pit



Pic 26. Medicinal plants in the garden

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4.5.4 Recommendations

- Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Assign scientific names to the trees.
- 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 actions to ensure environmental sustainability.
- 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.
- Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.
- Celebrate every year 5th June as 'Environment Day' and plant trees on this day to make the campus Greener.
- Indoor plantation to inculcate interest in students.
- Green library should be established.

5 Conclusions

Considering the fact that the institution is the oldest higher education institute of Darjeeling Hills, there is significant environmental protection efforts by all the stakeholders of the college. The environmental awareness initiatives are substantial. The installation of weather station and rainwater harvesting system are noteworthy. Besides, environmental awareness programmes initiated by the administration shows how the campus is going green. Few recommendations are added to curb the menace of waste management using eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus & thus sustainable environment and community development.

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2	Dr. Upakar Rai Assistant Professor Department of Zoology St. Joseph's College, Darjeeling	 Head Department of Botany St. Joseph's College North Point, Darjeeling

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Recommendations

With reference to Green and Environmental Audit Process, we commend the college's efforts in implementing various activities related to cleanliness, energy conservation, waste management, water management and conservation, biodiversity conservation, and awareness initiatives. The college has taken several commendable steps towards creating a healthy and sustainable campus environment:

1. The college campus, located in the Darjeeling region of the Eastern Himalaya, is contiguous with the Himalayan Biodiversity Hotspot and supports a wide variety of flora and fauna. The college administration is highly proactive in preserving this natural wealth.
2. The implementation of a rainwater harvesting system is particularly significant in an area like Darjeeling, where water scarcity is a persistent issue throughout the year except during the rainy season.
3. The college maintains a satisfactory balance between forested areas and constructed spaces on its campus.
4. Additionally, the campus has a biogas unit, which effectively recycles bio-waste and promotes its reuse, contributing to the overall betterment of the college environment.

While the Green and Environmental Audit Team is pleased with the college's efforts towards creating a Healthy and Sustainable Campus, we offer the following recommendations for further improvement and better management:

1. Continue the conservation activities of the campus flora and fauna, with particular attention to rare plants such as *Taxus baccata* and *Platanus acerifolia*.
2. Enhance the management of chemical waste from the Chemistry, Zoology, and Botany laboratories.
3. Renovate the biogas unit as a significant step towards improving waste management.
4. Restrict the use of single-use plastics on campus, although it is currently under control.
5. Maintain and continue all existing efforts by the college administration towards a greener and cleaner campus in the future.

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Date- 21st June 2024

This is to certify that Darjeeling Govt. College has successfully conducted Green Audit on 20.06.2024 and 21.06.2024. After Physical Verification and inspection, the Auditing Team is of the opinion that the college campus is within the standard parameters.

Congratulations to all the Stakeholders of Darjeeling Govt. College for their efforts towards Green Campus initiatives.

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21/06/2024
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