



GREEN CAMPUS

An inventory to assess the green performance of your campus

SESSION 2024-25

Contents

Profiling

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- Area and population
- Green mandate- institution arrangement
- Measurement and monitoring

Themes

- Energy Conservation
- Water
- Air
- Waste
- Nature and outdoor spaces

PART 1: General Information

CATEGORY	DETAILS
Name of institution	Govt. College Sanjauli
Address Line 1	Govt. College Sanjauli, Shimla-171006, Himachal Pradesh
Address Line 2	-----
Country	INDIA
State	Himachal Pradesh
District	Shimla
Pin Code	171006
Coordination	
Coordination Person Email	principalsanjauli@gmail.com
Telephone Number Mobile Number	0177 - 2640332
Mobile Number	
Contact details of Head/Team Lead	
Name	Dr. Bharti Bhagra
Email	principalsanjauli@gmail.com
Mobile Number	9418310988

PART 2: Area and population

Q. Total population:

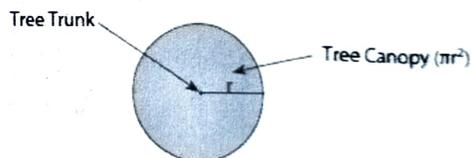
CATEGORY	MALES	FEMALES
Students	1684	1843
Faculty (Teaching)	28	26
Non-Teaching staff	14	14

Q. Provide area details for landscaping elements (Green area):

CATEGORY	AREA (21043 Sqm.)
Green Area	4000 sqm Built up area
• Grass area	17043 sqm
• Shrubs	6020
• Tree canopy	11023

NOTE:

Tree Canopy: It is the surface area covered by the foliage of a tree when looked either from above or the ground.



PART 3: Green mandate - institutional arrangement

Q. Do you have a green team? If yes, kindly provide the organization setup for such initiatives.

YES

Q. How often does it meet? Kindly support with the minutes of two such meetings.

√ Quarterly

Q. Is it empowered to recommend projects to management? If yes, kindly provide their constitution support in committees, reservations if any or weightage criteria for proposals.

YES

Q. Is it empowered to implement projects? If yes, support with such institutional arrangements.

YES

PART 4: Measurement and monitoring

Q. Have you established an environmental mission/vision for your campus/block? If yes, elaborate and support with controlled documentation.

Govt. College Sanjauli, Shimla-6 recognizes the importance of protecting the environment and promoting sustainable practices. In line with this, the college is committed to implementing policies and practices that contribute to a healthy environment and a green campus. This policy document outlines the strategies and actions that the college will undertake to achieve these objectives.

Q. Have you set environmental goals for your campus/block? If yes, elaborate and support with controlled documentation.

- Reduce the college's carbon footprint by implementing sustainable practices and reducing energy consumption.
- Promote waste reduction and recycling to minimize the college's environmental impact.
- Increase awareness among students, staff, and visitors about environmental issues and the importance of sustainability.
- Preserve the natural resources and biodiversity of the college campus.

Q. Do you have an action plan for implementing and monitoring progress towards goals? If yes, elaborate and support with controlled documentation.

- **Energy Efficiency:** The College will adopt energy-efficient practices to reduce energy consumption, such as replacing traditional light bulbs with LED bulbs, and using energy-efficient appliances.
- **Water Conservation:** The College will promote water conservation by implementing practices such as installing low-flow toilets and faucets, using drought-resistant plants in landscaping, and reducing water waste through regular maintenance and repair.
- **Waste Reduction and Recycling:** The College will implement waste reduction and recycling practices such as segregating waste into recyclable and non-recyclable categories, composting organic waste, and ensuring proper disposal of hazardous waste.
- **Sustainable Transportation:** The College will promote sustainable transportation by encouraging the use of public transport, cycling, and walking among students, staff, and visitors. The college will also provide parking facilities for bicycles and promote carpooling.
- **Green Campus:** The College will maintain a green campus by planting trees and other vegetation, promoting biodiversity, and using environmentally friendly landscaping practices.
- **Awareness and Education:** The College will raise awareness among students, staff, and visitors about environmental issues and the importance of sustainability through various initiatives such as workshops, seminars, and campaigns.

Q. Have you pursued a green campus/block/compound designation, such as Green Rating, GRIHA, ISO 14001, Etc.? If yes, elaborate and support with controlled documentation.

YES (Solar panels are installed on the roof of campus building and also on the hostel)

Q. Do you encourage sustainable behavior via (support with controlled documentation):

- **Policies:** The Environment and Green Campus policy will be implemented by a dedicated committee comprising of members from the college administration, faculty, and student body. The committee will regularly review and update the policy to ensure that it remains relevant and effective.
- **Education campaigns:** Govt. College Shimla-6 is committed to promoting environmental sustainability and implementing green practices on its campus. By adopting this policy, the college aims to reduce its environmental impact, increase awareness among stakeholders, and preserve the natural resources and biodiversity of its campus.
- **Contests:** Awareness about environment is created among students by organizing poster making, slogan writing, declamation contests on the topic related to conservation of environment.

PART 5: Energy Conservation

Q. Have you done an energy audit? If yes, provide details:

YES

NAME OF THE BLOCK/Common Area	LAND USE	FLOOR AREA (Sqm)	ENERGY SOURCE	SUBMETER READING (KWh)
			Electricity	
			Solar Energy	18672 kwh (2024-2025)

NOTE:

Land use can be provided as institutional, recreational, residential, commercial, etc.

Q. Do occupants know where their energy comes from? Kindly provide a pie-chart with sources (such as thermal, renewables, etc.) and their absolute numbers with percentage composition.

YES

<ol style="list-style-type: none">1. H.P. Electricity Board2. Solar energy (Renewable)

Q. Do you track your energy use and cost? Kindly provide five-year data with trends (support with recent energy)

YES

Q. Do you offer energy conservation lessons and programs? If yes, kindly provide details.

YES

(Energy awareness campaigns, energy walk/rally, energy Mela, energy exposure trip energy conservation models and awards etc.)

Q. Do you encourage responsible energy use via (tick appropriate and provide necessary details):

Policies

Education campaigns

Q. Do you use natural lighting when and where possible? What is the average Window-Wall ratio on southern façade of the building?

YES (2/3rd ratio)

Q. Have you installed occupancy sensors for lighting control? How much of total floor space is covered by such initiatives, and percentage of lighting load.

NO

Q. Do you immediately report inoperable occupancy light sensors/switches via Work Order? Provide service level agreement for helpdesk or maintenance services for such initiatives.

YES(Himachal Pradesh State Electricity Board and Himurja)

Q. Have you evaluated existing lighting for opportunities to reduce lighting in over-lit areas? Give examples of measures (such as LED or CFL replacements, etc.), associated savings and Cost benefit analysis, if any.

YES(Principal office, Staff Room, Auditorium)

Q. Do you turn off lights and other equipment when not in use? If yes, what are switch off and switch on timings, controls are manual or controlled through building management system.

YES(all manual and switch on timing 10 o'clock and switch off at 5 o'clock, uses when necessary).

Q. Do you use natural ventilation/windows when possible? Support by detailing such scheme followed, such as night purge, non-AC blocks, etc.

YES

(Night purge (not required in Shimla) and all blocks are non-AC)

Q. Do you purchase BEE star rating equipment/appliances? Kindly elaborate and support with recent purchase specification for such orders, for example, copy of purchase order, specifications, etc.

YES

S. No.	Equipment/Appliance	Specifications	BEE star rating
1.	Refrigerator	NIL	
2.	TV	NIL	
3.	Lighting	NIL	
4.	Geysers (enclosure attached)	NIL	
5.			

Q. Do you have policy for maximum and minimum temperature settings for air conditioned spaces? If yes, support with requisite orders/initiatives.

NO

Q. Do you have solar, geothermal, biomass or other forms of renewable energy installed on your campus? If yes kindly elaborate the share percentage of such installation of the total power demand.

Solar

(Solar panels were installed in the campus main building and hostel building).

Q. Do you offer renewable energy lessons and programs?

YES

PART 6: Water

Q. Have you done a water audit? If yes, support with flow chart from source to discharge process with volume data marked on each stage, including storage volumes.

NO

Q. Do occupants know where the water in campus comes from? Support with source information (such as ground water, river, pond, etc.) and percentage split if multiple sources are used?

YES

S.No.	Source	% of total supply
1.	Government supply	100%

Q. Do you track your water use and cost, source wise e.g. local authority, tankers, tubewells/borewells, rainwater harvesting, treated/untreated wastewater, etc.? Support with last five-year trend, with lowest possible distribution (if monitored).

YES

SN	Source	2024		2025	
		Use (Ltr.)	Cost (INR)	Use (Ltr.)	Cost (INR)
1					
2			5,81,683		5,90,199
3					
4					

Document attached.

Q. If you are dependent only on groundwater, do you track your groundwater decline? (Attached the borehole log used for the drilling of the bore well).

NO

Q. Do you have 24/7 water supply or intermittent, is this pressurized system or gravity-based design.

Intermittent

Q. Do you offer water conservation education lessons and programs?

YES

Q. Do you encourage responsible water use via:

- Policies
- Education campaigns

Q. Do you monitor and immediately report leaks via work order? Support with measurement, inference process and relevant work orders.

- YES

Q. What kind of faucets do you have installed in your campus? Provide details and specification of selected options, do mark their saving potential (via Facilities/Estates Department).

- Full turn faucets

Q. Have you installed low-flow specification of selected options, do mark their saving potential (via Facilities/Estates Department).

Low-flow shower heads

Low-flow toilets

Low-flow urinals

Q. Do you use collected rainwater for onsite needs? If yes support with design scheme, detailing on structures and O&M scheme (should include site potential to percentage harnessed supported by rainfall trends and soil and aquifer data)

- YES, Reserve rainwater tank is present in the campus.

Q. Have you installed any natural structures and/or vegetation to retain water onsite and minimize potable water use? If yes support with design scheme and percentage of augmentation and detailing on structures and O&M scheme.

- NO

Q. Do you monitor the impact of rainwater harvesting structure (Attach the trend of groundwater quantity and quality in last five years)? If the installed structure is new, then what are the indications for an increase in soil moisture.

- NO

Q. Do you use native, drought-tolerant landscaping and grass? Do you have established water-use zones (hydrozones)? If yes, support by landscaping plan and percentage cover under such initiatives.

- NO

Q. Have you optimized your irrigation system (if applicable) to:

NO

Q. Do you use treated wastewater? If yes, provide details.

NO

PART 7: Air

Q. Do you use toxic-free cleaning products? Supplement with policy or any other supporting data

YES

Q. Do you use no to low-VOC paints? Supplement with policy or any other supporting data.

NO

Q. Do you practice integrated pest management using natural, non-polluting treatment methods?

YES

Q. Do you practice regular housekeeping routine to minimize dust and allergens? Elaborate methods.

YES

Q. Have you done any transportation audit yet (campus-wide)? Provide details on campus fleet of vehicles, separately for students, faculty, etc.

NO

Q. Do you encourage green transportation options via:

Policies

Education campaigns

Q. Do you provide green transportation infrastructure such as:

YES

Safe, connected, and accessible walkways and pathways.

Bicycle paths and/or lanes.

Battery-operated vehicles (use of public transport vehicles by staff and students)

Green vehicle priority parking? (fuel-efficient, alternative fuel, carpool by staff).

Q. Have you calculated your carbon footprint?

NO

Q. Do you encourage bus drivers/parents etc to not idle their engine during pick-up/drop-off?

YES

Q. Is there any provision/policy of accessibility and mobility inside the campus?

YES (Inside parking)

PART 8: Waste

Q. Do you segregate waste at source into biodegradable, non-biodegradable and hazardous waste?

YES

Q. Do you follow colour-coded bins for segregation?

YES

Note:

Government of India mandates to segregate waste at source into:

Biodegradable (in green bin): left-over food items, vegetable and fruit peels, eggshells, meat, fish, etc.

Non-biodegradable (in blue bin): disposable cups, plates, cardboard, metal containers, paper, non-infectious plastics and other recyclables and combustible objects. Domestic hazardous wastes (in black bin): insecticides, disinfectants, fumigants, chemical containers, broken thermometers, expired medicines, and other chemicals.

Q. Do you track the waste that goes outside your campus? Where does it finally end (landfill, composting, etc.)

YES

Q. Are you registered with authorized recyclers/vendors for plastic waste and other recyclables? If yes, support with time-based trends, certificate, manifesto, etc.

YES

Q. Have you done a waste audit? Provide details.

YES (Yes, by M.C. Shimla)

Q. Do you have collection points from where municipal truck can pick up the rejects? If yes, do mention the size of the container.

YES (2.5 feet by 2.5 feet)

Q. Do you reduce waste via:

Promoting reusable trays, plates, bowls, cups/bottles, and serving wares.

Minimizing use of products with excess packaging

Engaging occupants to properly sort waste (Rag pickers)

Engaging occupants to reduce packaging waste and single serve containers

Other practice, specify:

(Rag pickers collect the reusable wastes, Incinerator machines have been installed in the washroom)

Q. Do you encourage a zero-waste culture via:

- Policies
- Education campaigns
- Contests

Q. Do you practice creative reuse, on-site treatment? Support by examples detailing volumes of waste reused and methodologies (such as vermi-composting, burial, mechanical composting, etc.)

- Recycling
- Composting
- Other, specify: 1. Vermi-composting: It is done in the college campus in a pit where the waste from the college is collected and converted into compost; 2. Sanitary Pad incinerators; and 3. Recycling

Q. Are all stakeholders engaged in campus zero waste efforts practicing proper recycling and composting? Define broad roles.

- YES**
 - All stakeholders are engaged in campus zero waste efforts practicing proper recycling and composting. The NSS, NCC, ECO CLUBS conduct sensitization programs. The College organizes workshops for students and parents on Solid Waste Management. The paper waste produced on campus is collected and collaborated with scrap dealers for recycling. Reduction in use of paper by supporting digitization of attendance and internal assessment records.
 - The canteen is provided with a Decomposition waste pit for converting the food waste into compost.

Q. Do you have a disposal provision/facility/policy for:

- Cleaning productsYES
- Grease No
- Strippers No
- Recyclables YES
- Batteries..... No
- Bio-medical waste..... NIL
- Fluorescent lights..... No
- E-waste YES
- Other potentially hazardous products, specify:..... NIL

Q. Is the e-waste going to an authorized recycler?

- YES**, College maintains all its computer peripherals, all old systems are stored in safe place in a room within the campus and will be sold to the recycling agencies by a committee constituted after fulfilling all official formalities. The old computers and their peripherals are given to other government institutions to reduce e waste of the college.

Q. How do you handle compostable wastes like food, garden/horticulture? Support by current scheme of operations

- YES, Decomposition waste pit for these wastes.**

Q. Do you use the compost produced for horticulture purposes? If yes, specify.

- YES**(uses compost for gardening purposes)

Q. Has the campus banned use of plastic?

- YES**, (Use of plastic is banned in the college)

Q. Have any initiatives been taken in the campus to promote upcycling of plastic?

- YES**

The following initiatives have been taken for making the plastic free campus:

1. Giving up bottled water.
2. Carrying reusable shopping bags
3. Use natural cleaning cloths instead of plastic scrubbers and synthetic Sponges.

PART 9: Nature and outdoor spaces

Q. Have you taken action to green your campus through implementation of:

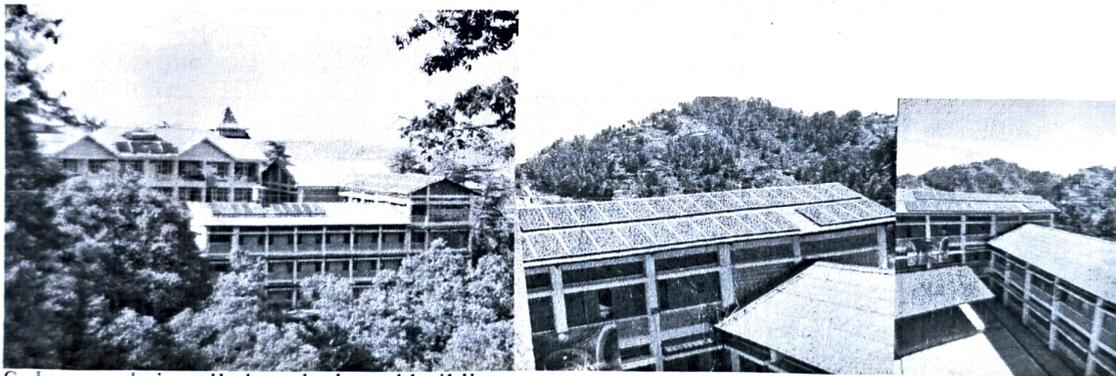
YES

SN.	Activities	Status
1	On-site composting	YES
2	Rain gardens, berms, swales or natural drainage features	YES
3	Rain barrels and other rainwater collection systems	YES
4	Food gardens	YES, in process
5	Native and drought-tolerant landscaping	YES
6	Ponds	NO
7	Tree planting and care	YES
8	Natural elements, such as wood benches, <i>etc.</i>	YES
9	Any other sustainable/greening initiative, specify Bio-manure usage for gardening purposes	YES

Photo-plates 1



Solar panels installed on the campus building.

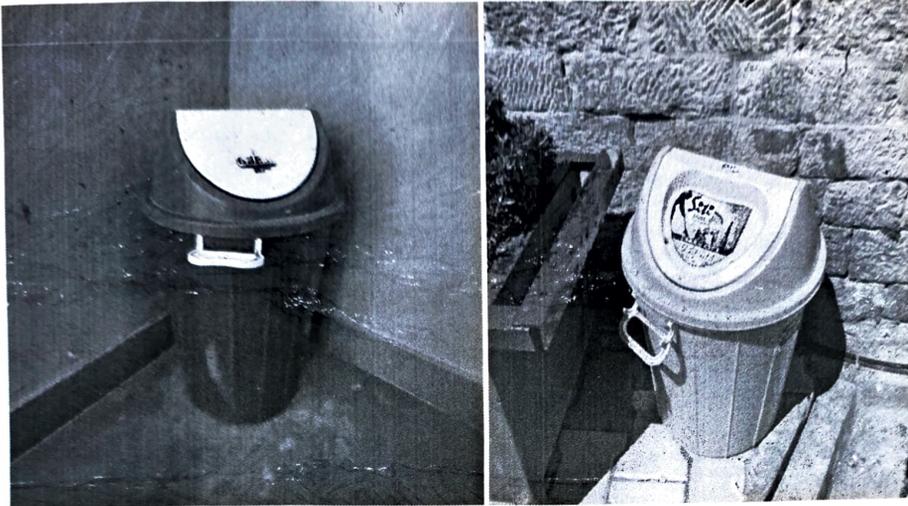


Solar panels installed on the hostel building.



Green campus and green corridors in campus and buildings.

Photo-plates 2



For garbage collection dustbins are installed at proper points.



Trees plantation by students and staffs nearby campus areas (Eco-club activities).

Centre of Excellence
Government College Sanjauli, Shimla-171006
 Site: www.gcsanjauli.edu.in Email: principalsanjauli@gmail.com
 Fax/Tel: 0177-2640332

FUND BILL FORM

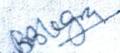
Pr. No. 163/24

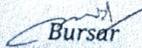
(AF)

Dated: 13.01.2025

Sl. No.	Beneficiary Name	Particulars of payment	Amount	Remarks
1	Additional General Manager (WSD) Shimla Jal Prabandhan Nigam Ltd.	Payment paid an account of college water bill against A/c No. 12604 for the month of December 2024 Bill No 11712604	54618	Cheque No:000176
2	A.E HPSEB Sanjauli Payment For Electricity bill for the month of December 2024	Bill No. 100000977173 Consumer ID 100008001555	71980	000177
Total			126598/-	

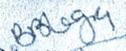
Rs. 126598/- (Rupees one lakh twenty six thousand five hundred ninety eight only) passed/verified for payment out of A/c No. 20600100000023 (AF) of the college Fund.


Principal


Bursar


Supdt


D.A


Principal,
C.O.E College, Centre of Excellence
Sanjauli, Shimla-171006
Shimla-8

Enclosures attached.

KOLKATA PRADESH STATE ELECTRICITY BOARD LIMITED (A State Govt. Undertaking)
 HPSRD Help Line No. : 100180804 or 1912
 (OPR : B No B (SA Complex Function) Chhina V. Chatterjee in 0171-2621104
 chhina@sbcl.co.in; 0171-2621104; 0171-2624525

Name	THE PRINCIPAL	Availed Supply Voltage (KV)	0.40	Bill No.	CONSUMER 1114
Consumer ID	100008001555	Standard Supply Voltage (KV)	11.00	Bill Date	15/02/2025
Legacy A/C No.	111410857	Metering Voltage (KV)		Last Reading Date	04.02.2025
Installation No.	5001483267	Tariff Category	MFES TMS Falt	Current Reading Date	01.01.2025
Address	GOVT. BOYS COLLAGE SANJALI 1114 SRINILA 171001	Connected Load (KW)	00.00	Crtd/Drft Date	01.02.2025
		Sanctified Ctr Demand (KW)	00.00	1341 Closure Date	21.02.2025
		Billing Ctr Demand (KW)	00.00	Billing Month(s)	1
		Meter Reading (Mtr)	M11408		

Meter No.	New	Old	Difference	Multiplier	Adjustment	Meter Reading		
						Old Balance	Change	Current
R2011294	1452.613	1431.446	21.167	80.00000	0			
Kwh Net (Export)	75.581	69.255	6.326	80.00000	0		1787.290	0.000
Kwh Main (Export)	2257.272	2209.070	47.296	80.00000	0			
Kwh Main (Import)	72.687	66.575	6.122	80.00000	0		1283.920	0.000
Kwh Peak (Export)	329.054	317.079	11.975	80.00000	0			
Kwh Off (Export)	0.000	0.000	0.000	80.00000	0		350.000	0.000
Kwh Off (Import)	475.976	463.723	14.255	80.00000	0			
Recorded Demand	0.002	0.002	0.000	80.00000	0		1340.400	0.000
Max. Demand	0.294	0.000	0.294	80.00000				
	75.378		75.378	1.00000			23.520	75.378

Particulars	Base Value	Rate	Amount (Rs.)
Energy Charge - Peak	950.000 KVAh	6.16 (Rs./KVAh)	5852.0000
Energy Charge - Normal & Night	2327.68000 KVAh	6.16 (Rs./KVAh)	14338.508800
Total energy charge			20190.51
Govt Subsidy on Energy Charge			
Right Time Consumption			
Lower Voltage Supply Surcharge	20190.51 (Rs.)	5.00 %	1009.53
Lower Voltage Metering Surcharge			
Max. Recorded Demand (KVA)	88.68 KVA	85% / 10%	23.520
ESL of Bi-Line CD (KVA)	75.378 KVA	140.00 (Rs./KVA/Month)	10552.92
Demand Charge			
Green Energy Charge (GEC)			
Contract Demand Violation Charge			
Rebate on Expansion			
PPPS *			
PPPS Subsidy			0
Net Current POP			0.00
ED-ENVIRONMENT-401K CBSS			31752.96
MC Tax	3277.680 KVAh	10.00 (Paise/unit)	3277.77

*Sanctioned & Passed
 at Rs. 32080/-*

Security Deposit (Cash)	Rs. 36274.00
Security Deposit (BS)	
EC Expiry Date	
Last Bill Paid Amount	Rs. 71960.00
Last Bill Paid Date	17.01.2025

Payable Charges	Payment Info			
	SOP (Rs.)	ED (Rs.)	MT (Rs.)	Others (Rs.)
Total (Rs.)	31752.96	0	327.77	0
Sundry *	0	0	0	32080.73
Total Arrears E	0	0	0.00	0
Disputed Arrears E	0	0	0	0
Pdv/Interest (Cr/Dr) %				0.27-
NTS / TDS amount	0			
Amt Before Due Date	31752.96	0	327.77	0.27-
Last Payment Surch.	475.09			
Total Amount Payable	32228.95	0	327.77	0.27-

1. EC Limitation Int. By 2023-24 Act., 2024: Nil - 0.00
2. * Sundry Arrears SOP/ED/MT/NTS Rs will be Claimed/Adjusted in Current/Next bill.
3. * Advance Amount - 0.27 Rs has been Released
4. ED, NTS, TDS Charges calculate on net energy charge = (Energy Charge after considering NTC and Rebate).

*Smt. Vedushin
 Principal
 11/2/25*

(out of AF)



SJPNL Water Bill

Meter No : 145774
A/C No : 12604
Consumer Id : 11712604
Bill No : 11712604-E3JGDA
Tariff Type :
Govt. Institution, Govt. Hospita,
Is, Dharamshala?s and Religious
place within & outside M.C. Limi
t

Name : THE PRINCIPAL
Address : GOVT. COLLAGE SANJOLI MAYA SCHOO
L, SHIMLA

Mobile No : null
Meter Status : Active
Meter Reading : KLtr 12302
New Reading End: 02-09-2024
Old Reading : KLtr 11857
Date Reading Date: 02-08-2024
Consumption Ltr : KLtr 445
Actual Cost : Rs. 40495.77
Current Charges : Rs. 37317.77
Sewage U.C : Rs. 1195.34
CMC : Rs. 504.57
Arrears : Rs. 0.00
Meter Charges : Rs. 0.00
Other Charges : Rs. 0.00
Credit : Rs. 0.00
CR After 5th/C : Rs. 37317.77
Surcharge : Rs. 37317.77

Water bill



NAAC Accredited 'B+' Grade College

Centre of Excellence

GOVT. COLLEGE, SANJAULI, SHIMLA -6, H. P.

WEB SITE: www.gcsanjauli.edu.in E-Mail Address: principalsanjauli@gmail.com
FAX/ Tel. No: 0177-2640332

Our Policy for Maintaining a Green Campus

Introduction:

Govt. College Sanjauli, Shimla-6 recognizes the importance of protecting the environment and promoting sustainable practices. In line with this, the college is committed to implementing policies and practices that contribute to a healthy environment and a green campus. This policy document outlines the strategies and actions that the college will undertake to achieve these objectives.

Objectives:

The objectives of the college's Environment and Green Campus policy are to:

- Reduce the college's carbon footprint by implementing sustainable practices and reducing energy consumption.
- Promote waste reduction and recycling to minimize the college's environmental impact.
- Increase awareness among students, staff, and visitors about environmental issues and the importance of sustainability.
- Preserve the natural resources and biodiversity of the college campus.

Strategies and Actions:

The college will undertake the following strategies and actions to achieve the objectives of the Environment and Green Campus policy:

- **Energy Efficiency:** The College will adopt energy-efficient practices to reduce energy consumption, such as replacing traditional light bulbs with LED bulbs, and using energy-efficient appliances.
- **Water Conservation:** The College will promote water conservation by implementing practices such as installing low-flow toilets and faucets, using drought-resistant plants in landscaping, and reducing water waste through regular maintenance and repair.
- **Waste Reduction and Recycling:** The College will implement waste reduction and recycling practices such as segregating waste into recyclable and non-recyclable categories, composting organic waste, and ensuring proper disposal of hazardous waste.
- **Sustainable Transportation:** The College will promote sustainable transportation by encouraging the use of public transport, cycling, and walking among students, staff, and visitors. The college will also provide parking facilities for bicycles and promote carpooling.
- **Green Campus:** The College will maintain a green campus by planting trees and other vegetation, promoting biodiversity, and using environmentally friendly landscaping practices.
- **Awareness and Education:** The College will raise awareness among students, staff, and visitors about environmental issues and the importance of sustainability through various initiatives such as workshops, seminars, and campaigns.

Monitoring and Evaluation:

The college will regularly monitor and evaluate its environmental performance to ensure that it is meeting its objectives and targets.

Implementation and Review:

The Environment and Green Campus policy will be implemented by a dedicated committee comprising of members from the college administration, faculty, and student body. The committee will regularly review and update the policy to ensure that it remains relevant and effective.

Conclusion:

Govt. College Shimla-6 is committed to promoting environmental sustainability and implementing green practices on its campus. By adopting this policy, the college aims to reduce its environmental impact, increase awareness among stakeholders, and preserve the natural resources and biodiversity of its campus.


Principal
Govt. College Sanjauli
Shimla-6
Distt. Solan, H.P.
Shimla-6

13/08/2021

Centre of Excellence

Green Audit Report

1. About Green Audit

The term 'Green' is an ecofriendly approach of taking care of the environment. It can be called as 'Global Readiness in Ensuring Ecological Neutrality'. Green audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environment diversity.

2. Objectives of Green Auditing

1. To analyze the environmental practices within and outside the college campus which has an impact on ecofriendly ambience.
2. To identify the floral and faunal diversity in the college campus and the adjoining area.
3. To suggest measure to enrich the biodiversity in and around the college campus.
4. To develop interest in Biodiversity among the students and promote them to add number to the existing floral diversity of the campus and make a check list of existing flora and fauna.

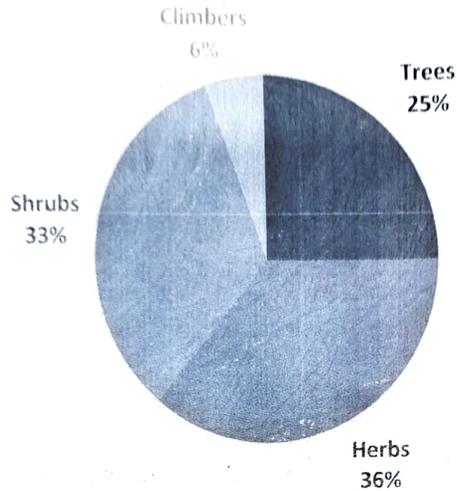
3. Biodiversity Audit

Green audit committee members along with B.Sc. Medical students visited various sites in college and adjoining areas to assess the status of green cover, floral and faunal diversity of the college and its documentation. The total area of college under green cover is 6000m². Visits to the various parts of the college campus and the adjoining areas were conducted by the staff of the Biosciences Department along with the students of B.Sc. 1st, 2nd and 3rd. The key focus of the visits was to assess the floral and faunal diversity in and around the college campus and its documentation.

Table 1: Habit Survey of campus plants

S. No.	Habit	Type
1.	Trees	9
2.	Herbs	13
3.	Shrubs	12
4.	Climbers	2

HABIT SURVEY



List of Floral Diversity in and around the college campus

Table 2: TREES

S. No.	Botanical Name	Common Name	Medicinal Value	Number (approx.)
1	<i>Quercus leucotrichophora</i>	Ban Oak	Cure gonorrhoea, dysentery, diarrhea	21
2	<i>Rhododendron arboreum</i>	Rhododendron	Treat heart diseases, dysentery, detoxification etc.	22
3	<i>Pinus roxburghii</i>	Chir pine	Cure inflammatory disorders	7
4	<i>Cedrus deodara</i>	deodar	Treat asthma, bone fractures, leprosy, rheumatism etc.	15
5	<i>Robinia pseudoacacia</i>	Black Locust	Antacid, antibacterial	6
6	<i>Trachycarpus fortunei</i>	Chinese windmill palm	Root used as a contraceptive, treat nosebleeds, haematemesis	1
7	<i>Cupressus torulosa</i>	Himalayan Cypress	-	
8	<i>Picea smithiana</i>	Spruce	-	4
9	<i>Taxus wallichiana</i>	Rakhal	Treat common cold, cough, fever etc.	1

Table 3: SHRUBS

S.No.	Botanical Name	Common Name	Medicinal Value
1	<i>Vaccinium augustifolium</i>	Lowbush Blueberry	Leaves used as blood purifier and treat infants colic
2	<i>Cotoneaster dammeri</i>	Bear berry cotoneaster	Treat diabetes, hemorrhoids.
3	<i>Vinca minor</i>	Dwarf periwinkle	Treat menstrual problems, gastrointestinal problems
4	<i>Berberis aristata</i>	Kashmal	Antibacterial, antidiarrheal, anticancer.
5	<i>Bambusa arundinacea</i>	Bans	Treat inflammatory conditions
6	<i>Desmodium tiliaefolium</i>	Murt	Treat rheumatism, cough, wound etc.
7	<i>Prinsepia utilis</i>	Bhekhhal	Cure joint pain, scabies, used for body massages
8	<i>Rosa magrophylla</i>	Jungli Gulab	Treat skin conditions, eyesight
9	<i>Rubus ellipticus</i>	Lal anchu, akhi	Renal tonic, anti-diuretic
10	<i>Rubus paniculatus</i>	Kala anchu, akhi	Leaf paste used to treat sprains
11	<i>Strobilanthes atropurpureus</i>	Mashna	Anti diabetic, diuretic, laxative
12	<i>Strobilanthes alatus</i>	Mashna	High in antioxidant, anticancer
13	<i>Asparagus racemosus</i>	satmulli	Used in Ayurveda to treat fever and female reproductive issues
14	<i>Kerria japonica</i>	Japanese rose	Stimulates respiration and improve digestion.

Table 4: HERBS

S. No.	Botanical Name	Common Name	Medicinal Value
1	<i>Tanacetum parthenium</i>	Feverfew	Treatment of fevers, migraines, stomachaches, toothaches etc.
2	<i>Satureja hortensis</i>	Summer savory	Treat diabetes, cardiovascular diseases
3	<i>Hydrocotyle vulgaris</i>	Pennywort	Useful in fever and bowel complaints
4	<i>Iris nepalensis</i>	-	Used to treat liver conditions
5	<i>Salvia glutinosa</i>	Sage	Treat inflammations, injuries and other infections
6	<i>Gerardiana heterophylla</i>	Bichhubuti (stinging nettle)	Treat gastric problems and constipation
7	<i>Solanum indicum</i>	Ban tobacco	Treat asthma, chronic fever, scorpion stings, worm infestation
8	<i>Saxifraga ligulata</i>	Pathar tor	Treat ulcers, cough, cold, fever, diarrhea
9	<i>Impatiens thomsoni</i>	Jungli timber	Treat bee stings, insect bites etc
10	<i>Bergenia ligulata</i>	Pathar tor	Diuretic, anti diabetic, antimalarial etc
11	<i>Mentha cylvestris</i>	Pudina	Antiobesity, antimicrobial, anti-inflammatory
12	<i>Hedra nepalensis</i>	Ivy	Sedative, antifungal, spasmolytic
13	<i>Rumex obtusifolius</i>	Bitter Dock	Treatment of blisters, burns etc

Table 5: Climbers

S. No.	Botanical Name	Common Name	Medicinal Value
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1.	<i>Hedera helix</i>	English Ivy	Expectorant
2.	<i>Solanum jasminoides</i>	Jasmine nightshade	Antioxidant

Table 6: Pteridophytes

S. No.	Botanical Name	Common Name	Medicinal Properties
1	<i>Adiantum venustum</i>	Himalayan maidenhair	Anti diabetic, anti pyretic
2	<i>Asplenium dalhousie</i>	Birds nest fern	Used to treat cough, act as a laxative and treat irregular menses
3	<i>Dryopteris redactopinnata</i>	Basket fern	Used to treat inflammations, wound and ulcers
4	<i>Hypodematum crenatum</i>	-	Anti fungal and antimicrobial properties
5	<i>Lepisorus nudus</i>	-	Extract has antioxidant and anticancer properties
6	<i>Polypodioideslachnopus</i>	Ressurrection fern	Treat jaundice and hardness of spleen
7	<i>Polystichum discretum</i>	Hair cap moss	Has antibacterial properties
8	<i>Polystichum yunnanense</i>	Christmas fern	Treat stomach issues
9	<i>Pteris cretica</i>	Chinese brake fern	Used in wound healing
10	<i>Pteris pseudoquadriaurita</i>	Chinese ladder brake	-
11	<i>Pteris vittata</i>	Ladder brake	Treat nosebleeds and menstrual bleeding
12	<i>Nephrolepis cordifolia</i>	Ladder fern	Treat cough, chest congestion and rheumatism
13	<i>Diplazium esculentum</i>	Fiddlehead fern	Treat bone fractures and glandular swellings
14	<i>Pteridium aquilinum</i>	Bracken fern	Treat rash and has anti fungal properties

Table 7: Bryophytes

S. No.	Botanical Name	Common Name	Medicinal Properties
1	<i>Marchantia papillata</i>	Common liverwort	Anti inflammatory
2	<i>Marchantia polymorpha</i>	Umbrella liverwort	Prevent infections in open wound
3	<i>Radula grandifolia</i>	-	-
4	<i>Anthoceros erectus</i>	Field hornworts	Treat skin infections
5	<i>Notothylas himalayensis</i>	Indian hornwort	-

Table 8: Green House Plants

S. No.	Botanical Name	Common Name	Medicinal Value	Number
1.	<i>Aloe barbadensis</i>	<i>Aloevera</i>	Anti-inflammatory, antimicrobial, antioxidant properties	2
2.	<i>Chlorophytum comosum</i>	<i>Spider plant</i>	Purifies indoor air.	11
3.	<i>Tradescantia</i>	Wandering jew	Anticancerous , anti trypanosomal , larvicidal activity against Anopheles.	5
4.	<i>Cycas</i>	Sago palm	-	3
5.	<i>Crassula ovata</i>	Jade plant	Air purification.	11
6.	<i>Pelargonium hortorum</i>	Garden Geranium	Used in cosmetics, scented soaps and oils, treat headaches and dysentery	29
7.	<i>Sedum</i>	Stonecrop	Treat cough, high blood pressure, healing wounds.	10
8.	<i>Asparagus racemosus</i>	Shatavari	Used in Ayurveda to treat chronic fever and internal heat.	3
9.	<i>Salvia rosmarinus</i>	Rosemary	Anti-inflammatory, analgesic agent.	2
10.	<i>Tagetes</i>	Marigold	Treat stomach problem, cough, cold.	6
11.	<i>Nephrolepis</i>	Ladder fern	Used as pollution control	1
12.	<i>Cactus</i>		Ornamental plant, help fights infections.	4
13.	<i>Graptopetalum</i>	Ghost plant	Treat hypertension, diabetes, inflammation etc	11
14.	<i>Billbergia</i>	Flaming torch	Disperse swelling, discharge pus	6
15.	<i>Haworthia</i>	Zebra cactus	Cures cough, sunburns, burns etc	6



Green House Plants

Table 9: Ornamental plants

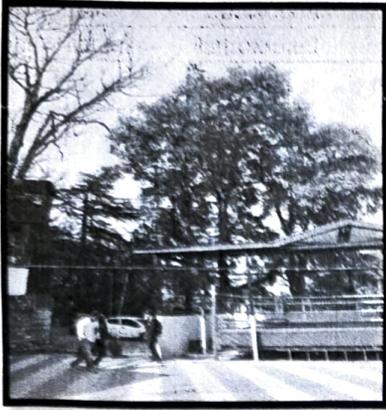
S. No.	Botanical Name	Common Name	Medicinal Properties	Number
1	<i>Calendula officinalis</i>	Pot marigold	Treat burns, cuts bruises etc	20
2	<i>Chrysanthemum indicum</i>	Indian chrysanthemum	Treat chest pain, diabetes, cold, fever	15
3	<i>Agapanthus orientalis</i>	Blue lily	Treat heart diseases, cough cold etc	10
4	<i>Salvia leucantha</i>	Mexican bush sage	Treat seizures, gout, ulcers etc	7
5	<i>Callicarpa americana</i>	American beauty berry	Treat inflammation, rheumatism, internal bleeding etc	5
6	<i>Phillyrea latifolia</i>	Phillyrea	Treat ulcers, mouth inflammations	3
7	<i>Salvia splendens</i>	Scarlet sage	Control diabetes mellitus	5
8	<i>Cestrum elegans</i>	Crimson cestrum	Leaf extract used to treat epilepsy	1
9	<i>Rosa magrophylla</i>	Rose	Treat skin conditions, eyesight	5
10	<i>Phoenix reclinata</i>	Senegal date palm	Spines used to treat pleurisy	1
11	<i>Philodendron bipinnatifidum</i>	Philodendron	Treat inflammations and rheumatism	2
12	<i>Monstera deliciosa</i>	Monstera	Treat arthritis and snake bites	2
13	<i>Pilea cadierei</i>	Aluminium plant	-	2
14	<i>Pelargonium</i>	Geranium	Pain reliever, sedative, relieve spasms	5
15	<i>Euphorbia decaryi</i>	Zombie finger	Used to treat asthma, chest congestion etc	1
16	<i>Beaucarnea recurvata</i>	Ponytail palm	-	1
17	<i>Schefflera arboricola</i>	Dwarf umbrella tree	Anti-inflammatory, antimicrobial, anti-allergic effects	2
18	<i>Aspidistra elatior</i>	Cast iron plant	Roots used as tonic to strengthen bones and muscles.	1
19	<i>Nephrolepis cordifolia</i>	Ladder fern	Cure skin diseases, liver and kidney disorders	2
20	<i>Schefflera acrtinophylla</i>	Umbrella tree	Anti allergic, antimicrobial	1

21	<i>Cycas revolute</i>	Sago palm	High blood pressure, congestion, joint pain	2
22	<i>Xanthosoma saggitifolium</i>	Tannia	Treat and prevent bone diseases, osteoporosis	2

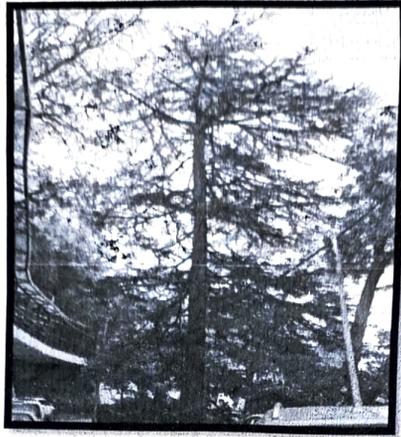
Table 10: Plants donated by students for Green House

S.no	Botanical Name	Common Name	Medicinal Properties	Number
1.	<i>Kalanchoe blossfeldiana</i>	Flaming katy	Treat inflammation, rashes, burns, ulcers and skin infections	5
2.	<i>Crassula tetragona</i>	Miniature pine tree	-	5
3.	<i>Chlorophytum comosum</i>	Spider plant	Purify air	4
4.	<i>Aloe barbedensis</i>	Aloe vera	Fights acne, soothes razor burns lowers blood sugar level	17
5.	<i>Sarcococcaligina</i>	Christmas tree/sweet box	Treat arthritis, inflammatory disorders	1
6.	<i>Aeonium arboreum</i>	Irish rose	Has antipyretic properties	3
7.	<i>Citrus limon</i>	lemon	High in vitamin c and support heart health	3
8.	<i>Quercus incana</i>	Blue jack oak	Treat acute diarrhea	1
9.	<i>Fragaria x ananassa</i>	Strawberry	High in anti-oxidants	1
10.	<i>Euphorbia peplus</i>	Weed, spurge	Treat skin cancer	1
11.	<i>Solanum muricatum</i>	Melon pear	Treat hypertension, diabetes, lowers cholesterol levels	1
12.	<i>Pelargonium inquinans</i>	Scarlet geranium	Treat headaches and flu	8
13.	<i>Lilium longiflorum</i>	Easter lily	Treat stomach disorders	3
14.	<i>Lilium candidum</i>	Madonna lily	Treat age related disorders, burns and ulcers	1
15.	<i>Pangiumedule</i>	pangi	Rich in vitamin c	1
16.	<i>Viola wittrockiana</i>	Garden pansy	Treat skin disorders, dandruff and acne	1
17.	<i>Opuntia ficus indica</i>	Cactus pear	-	1
18.	<i>Catharanthus roseus</i>	periwinkle	Treat diabetes and depression	1
19.	<i>Hydrangea macrophylla</i>	Japan hydrangea	Treat bladder infections, enlarged prostate, kidney stones etc	2
20.	<i>Cupressus golden</i>	Cypress golden	Treat respiratory issues, strengthen immune system	2
21.	<i>Pelargonium crispum</i>	Geranium	Roots used for cough and cold	2
22.	<i>Allium gladiatum</i>	Giant onion	Used to treat stomach problems, tuberculosis etc	2
23.	<i>Aeonium variegain</i>	suncup	Used as diuretic, antipyretic and anti-inflammation	3
24.	<i>Chrysanthemum morifolium</i>	Garden mum	Used as anti-inflammatory, sedative ana for arthritis	1
25.	<i>Brassica aloracia</i>	kale	Used in salads and stews	1
26.	<i>Medicago sativa</i>	Alfa-Alfa	Prevent cholesterol absorption in stomach	1

27.	<i>Thuja orientalis</i>	Northern white cedar	Treat liver diseases, bronchitis	1
28.	<i>Jasminum nudiflorum</i>	Winter jasmine	Used as sedative and an aphrodisiac	3
29.	<i>Kalanchoe pinnata</i>	Life plant	Used in treatment of cancer, peptic ulcers, kidney stones etc	1
30.	<i>Crassula ovata</i>	Jade plant	Absorbs CO ₂	5
31.	<i>Pelargonium zenole</i>	Garden geranium	Treat haemorrhoids and ulcers	2
32.	<i>Athyrium filixfemina</i>	Lady fern	Used in treatment of lung problems	1
33.	<i>Sedum rubrotinctum</i>	Jellybean sedum	Cure cough, high blood pressure etc	2
34.	<i>Rosa rubiginosa</i>	Eglantine rose	Improve high BP, treat bacterial and fungal diseases etc	3
35.	<i>Viola betonicifolia</i>	Sweet violet	Treat respiratory disorders	1
36.	<i>Sedum reflexum</i>	Reflexed stonecrop	Used in salads and soups	2
37.	<i>Ocimumtenuiflorum</i>	tulsi	Natural immunity booster, reduce fever	1
38.	<i>Ligustrum indicum</i>	Indian privet	Leaves used for fumigation	1
39.	<i>Tradescantia pallida</i>	Purple heart plant	Used as anti oxidant, anti inflammatory, antitoxin	1
40.	<i>Gazania rigens</i>	Treasure flower	Prevent miscarriage and toothache	2
41.	<i>Brassica oleracea</i>	kale	Anti-oxidant, anti-obesity, anti-cancer	1
42.	<i>Fuchsia magellanica</i>	Humming bird fuchsia	Treat indigestion, stomachache and as sedative	1
43.	<i>Dianthus caryophyllus</i>	Indian pink	Anti-cancer, antiviral, antifungal	1
44.	<i>Jasminum officinale</i>	Jasmine	Supress lactation and oil used for hair growth	1
45.	<i>Kalanchoe lacinate</i>	Christmas tree plant	Anti pyretic, anti-septic	2
46.	<i>Ranunculus asiaticus</i>	Persian buttercup	Anti rheumatic	1
47.	<i>Bellis perennis</i>	English daisy	Used for injuries to deeper tissues	1
48.	<i>Jasminum mesnyii</i>	Japanese jasmine	Uses in disbetes, CNS disorders	1
49.	<i>Pelargonium hortorum</i>	Zonal geranium	Used to treat skin infections	1



Quercus leucotrichophora



Cedrus deodara



Picea simithiana



Rhododendron arboreum



Taxus baccata



Picea smithiana



Pinus roxburghii



Trachycarpus fortunei



Pinus roxburghii





Table 11: Faunal diversity

S. No.	Zoological Name	Common Name
1	<i>Cannis lupus familiaris</i>	Dog
2	<i>Macaca mulatta</i>	Monkey
3	<i>Felis catus</i>	Cat
4	<i>Lasiusniger</i>	Black garden ant
5	<i>Semnopithecus entellus</i>	Northern grey langur
6	<i>Tettigoniaviridissima</i>	Green bush cricket
7	<i>Dendrocittaformosa</i>	Grey treepie
8	<i>Musca domestica</i>	House fly
9	<i>Opatrumsabulosum</i>	Darkling beetle
10	<i>Apis</i>	Honeybee
11	<i>Gomphocerus</i>	Grasshopper
12	<i>Passer domesticus</i>	House sparrow
13	<i>Columbo livia</i>	Pigeon



PICTURE CLICKED BY - ZANUZZI



PICTURE CLICKED BY - SHARUK THAKUR (2016181)



PICTURE CLICKED BY - ZANUZZI

Tettigonia viridissima

Equus

Dendrocitta formosa



PICTURE CLICKED BY - SHARUK THAKUR (2016181)



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Cannis lupus familiaris

Semnopithecus entellus

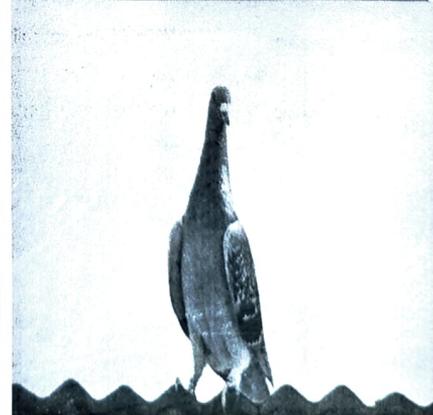
Lasius niger



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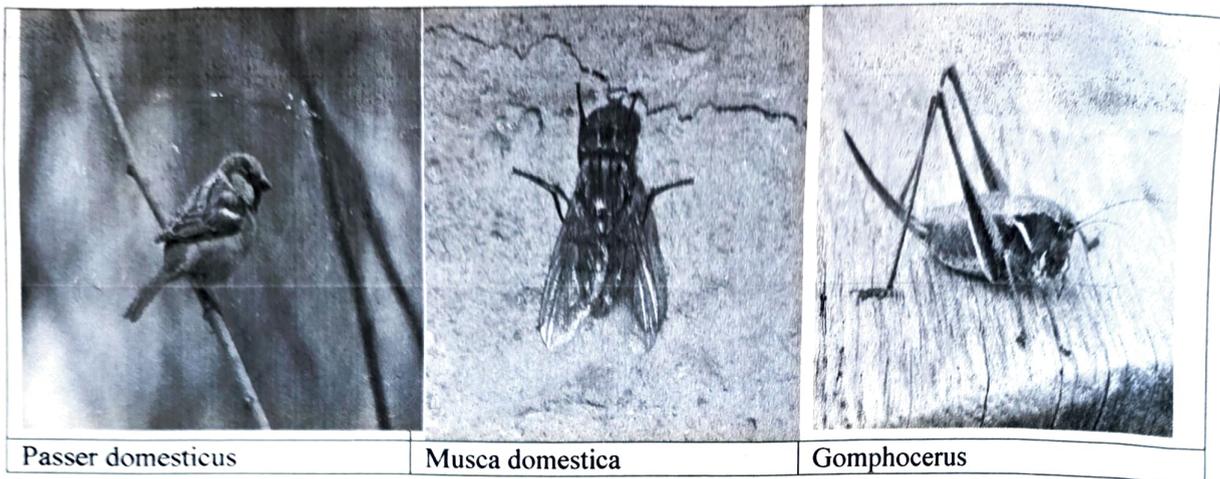
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Felis catus

Macaca mulatta

Columba livia



4. Steps taken towards minimizing pollution and prudent use of available resources

- Proper waste disposal
Students are encouraged to dispose biodegradable and non- degradable waste, polythene free campus. No disposable material used in the college canteen
- College campus falls under NGT identified urban forest so well maintained ecosystem is there around the college campus and privileged to have a better air quality
- Designated room for e-waste later to be picked up by appointed agency
- The college is conscious about preservation of water. The water harvesting system is currently non-functional because the old Principal's residence beneath which the tanks existed, has been dismantled for new construction of the Arts Block. The tanks will be reinstated and functional as soon as the building work resumes.
- Green Governance – a large part of college administrative work has shifted online to reduce the use of paper.
- Environment Conscious volunteers extend their responsibility to community by participating in plastic collection drives in the city forest areas frequently.
- Green energy sources like solar panels have been installed in college premises as well as in boy's hostel (details in Energy Audit).
- **Floral and Faunal Diversity Exhibition**

The Department of Life Sciences organized 'Floral and Faunal Diversity Exhibition' on 27 Feb, 2023. Students of Botany Department donated and exhibited around 100 plants ornamental as well as medicina plants which are found in Shimla and explained about them and their medical importance.

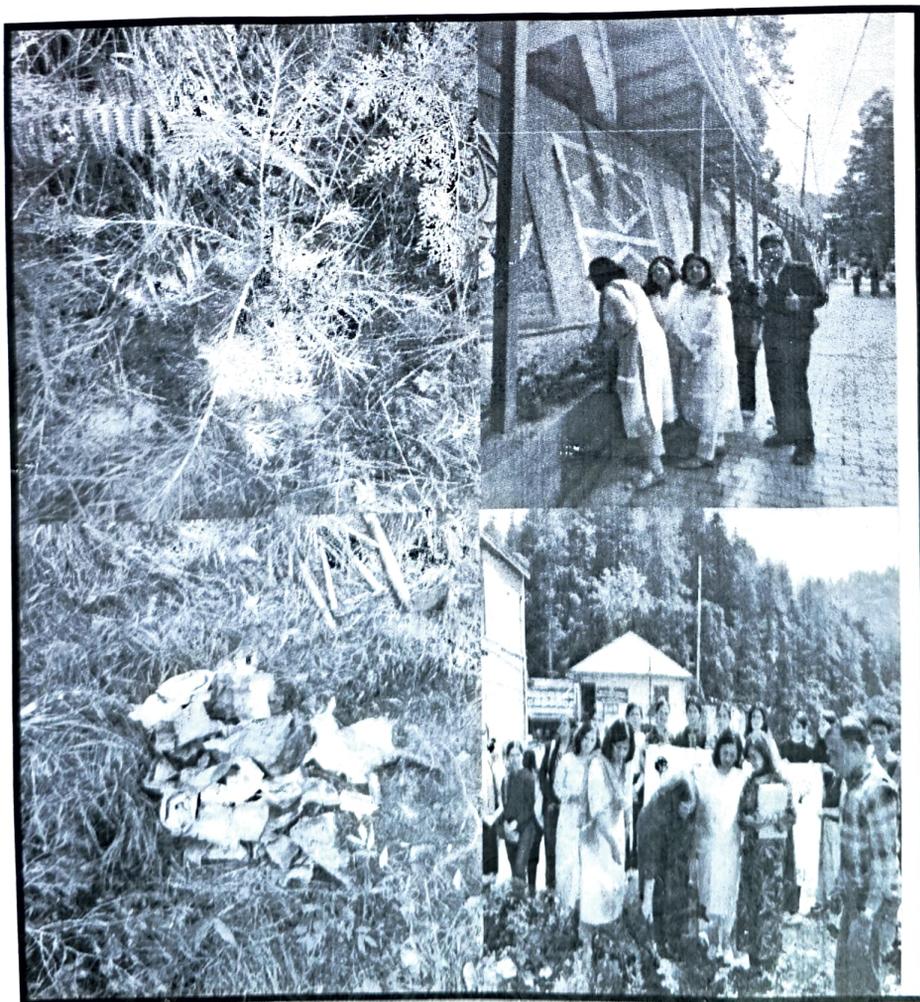
Tree plantation by ECO CLUB

1. Tree Plantation Drive (22–23 August 2024)

The Eco-Club of Centre of Excellence, Government College Sanjauli organized a two-day tree plantation drive under the “Plant for Mother Earth – One Tree for Mother” campaign. With active participation of around 100 students and faculty, Cedrus deodara saplings were planted in Benmore Ward near Jakhu, followed by a cleanliness drive. On the second day, flowering plants such as Hibiscus, Rose, and Jasmine were planted within the college campus. The activity promoted environmental responsibility, awareness about biodiversity, carbon sequestration, and proper sapling care, contributing significantly to campus greening and sustainability goals.

2. World Environment Day Celebration (2024)

On World Environment Day 2024, students of Government College Sanjauli participated in an inter-college event organized by the Himalayan Forest Research Institute (HFRI), Shimla, on the theme “Land Restoration, Desertification and Drought Resilience.” Students showcased their environmental awareness through skits, posters, debates, and slogan writing competitions. The college achieved outstanding success by winning



multiple first prizes across categories. The event enhanced students' creative expression, critical thinking, and advocacy skills while reinforcing the importance of environmental conservation and sustainable living.



5. CONCLUSION

Green Audit is an efficient way to identify various aspects of Sustainable Environmental practices and to find out measures to solve environment related issues. Even though the college takes all necessary steps in sustaining the environment, the recommendations in this report highlight ways in which the institute can work to become a more sustainable institution.

6. RECOMMENDATIONS

- Plants more plants in and around campus.
- Naming of all the trees and plants along with the common names for learning purpose.
- Organizing field visits to prestigious institutions like Horticulture Department, Botanical gardens, Arboretums, Mushroom research Centre, Potato research Centre, plant nurseries in and around Shimla for detailed understanding of concepts.
- Organize seminars, workshops and exhibitions on environmental education.
- Displaying slogans, posters and pictures to protect environment.
- To bring plants of medicinal value from their native place.

7. Green Audit Committee

- **Team Leaders :**

- **Green Audit Committee:**

- Dr. Minakshi Sharma (*Coordinator*)
Govt. College Sanjauli, Shimla-171006, Himachal Pradesh
- Ms. Deepti Gupta
Govt. College Sanjauli, Shimla-171006, Himachal Pradesh
- Dr. Shweta Sharma
Govt. College Sanjauli, Shimla-171006, Himachal Pradesh
- Mr. Lakhbeer Singh
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