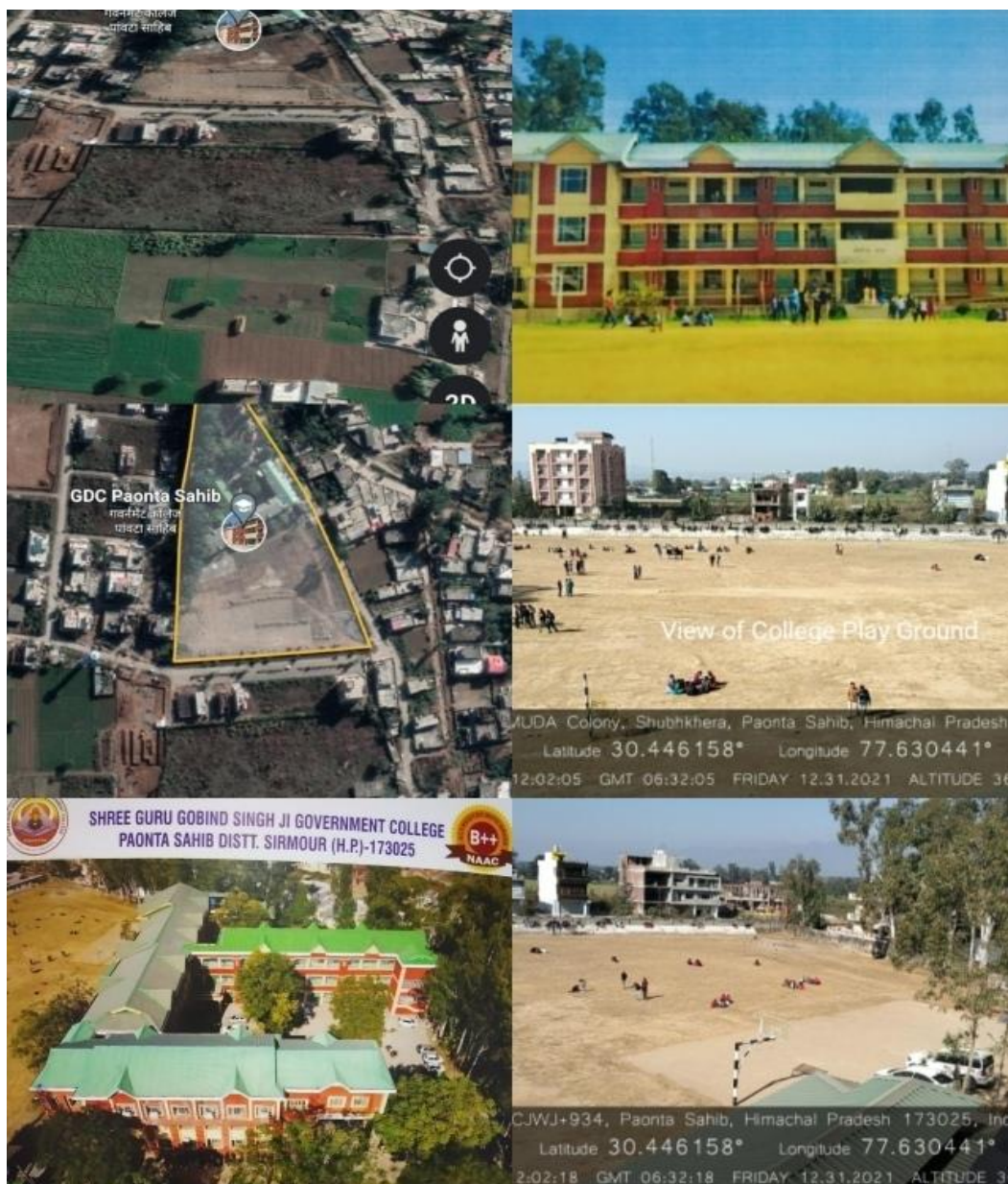


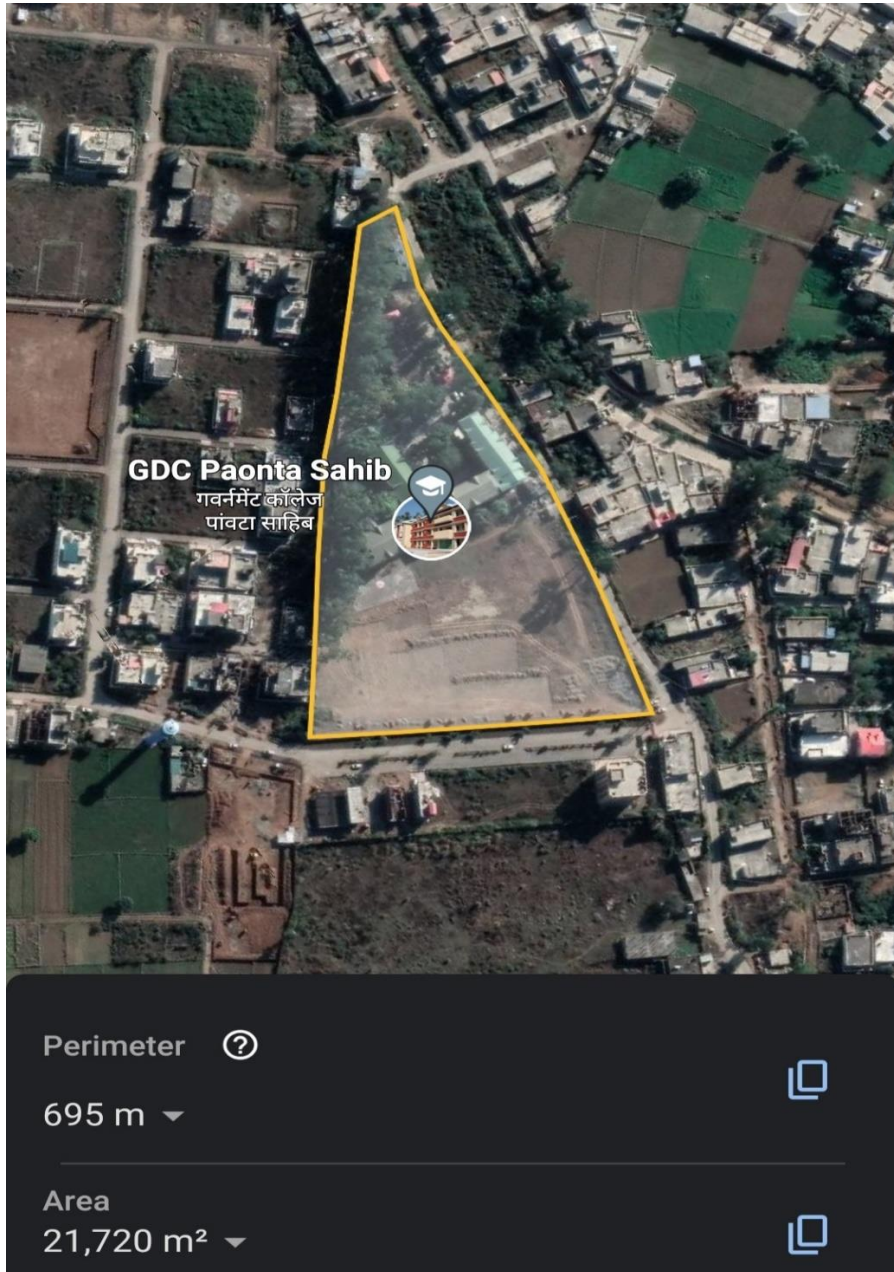
ENVIRONMENT AUDIT REPORT

SGGSJ GOVT.COLLEGE, PAONTA SAHIB (HP)

2020-21



SGGSJ GOVT. COLLEGE, PAONTA SAHIB (H.P.)





1.0 CONTEXT

We are committed as a component of NAAC and Social Responsibility of the Higher Educational Institutions to ascertain that they contribute towards the minimization of ecumenical warming through Carbon Footprint abbreviation measures.

SGGSJ Govt. College decided to conduct Environmental Evaluation with the assistance of Himachal Pradesh State Pollution Control Board (HPSPCB), Paonta Sahib, along with an Environmental Audit Assessment Team.

Environment Audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the College Authorities. The concept, structure, objectives, methodology, tools of analysis, objectives of the audit are mentioned below.

2.0 CONCEPT

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations/Institutions believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Environmental Audit, many leading institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

“A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects.” The outcome of Environment Audit should be established with concrete evidence that the measures undertaken and facilities in the institution under environment auditing.

3.0 INTRODUCTION

A Nation’s growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. Educational institutions now a days are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. To preserve the environment within the campus, various viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the energy savings, recycle of waste, water reduction, water harvesting etc. The activities pursued by colleges can also create a variety of adverse environmental impacts.

Environmental auditing is a process whereby an organization’s environmental performance is tested against its environmental policies and objectives. Environmental audit is defined as an official examination of the effects a college has on the environment. As a part of such practice, internal environmental audit is conducted to evaluate the actual scenario at the campus.

Environmental audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. Environmental auditing and the implementation of mitigation measures is a win-win situation for all the college, the learners and the planet. It can also create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Environmental impact on campus.

Environmental auditing promotes financial savings through reduction of resource use. It gives an opportunity for the development of ownership, personal and social responsibility for the students and teachers. Thus, it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue

for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system. Hence EHS Alliance has developed a compatible system by developing locally-applicable techniques. A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance.

This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.



4.0 OVERVIEW OF INSTITUTE

Established in the year 1994, Shree Guru Gobind Singh Ji Government College, Paonta Sahib has earned its name after Shree Guru Gobind Singh Ji, the 10th Sikh Guru, who commemorated the Khalsa Panth, during his sojourn in 1685-1689. The college campus is spread over 16 acres of land in village Shubh Khera of Paonta Sahib, at a walking distance of 1.5 km from the bus stand. The college is affiliated to the Himachal Pradesh University (HPU), Shimla and recognized by the University Grants Commission (UGC) of India, New Delhi. The college provides undergraduate three-year degree courses in B.A. / B.Sc. / B. Com.; professional degrees in B.C.A. / P.G.D.C.A.

and postgraduate degrees in English, Economics, Political Science, Hindi & Commerce. Three departments of the college in the science faculty, namely, Botany, Chemistry & Zoology have been awarded financial support under star college scheme of the Dept. Of Biotechnology, Ministry of Science & Technology, Govt. Of India.



The college has been awarded B++ grade by NAAC and is currently included among the *Utkrisht Mahavidyalayas* of Himachal Pradesh. In recent years, various national level conferences, seminars and workshops have been organized in the college under the aegis of Star College Scheme of DBT, Government of India.

The landscaped grounds of the College are widely admired for their beauty. In 2019-20 College celebrated its **silver jubilee** with great joy and pride.

The most valuable investment any educational institution can make is “Nurturing Future Leaders”. With the continuous rise in expectation of essential leadership standards, the College torch bearers have taken a responsibility for this investment to nurture the NextGen leaders with a vision to bridge the existing skill gap. With a firm step forward to attain an academic excellence, several Centres of Excellence, computer labs, and industry-academia associations have been setup at the SGGSJ Govt. College in association with the top leaders.

The College believes that its primary stakeholders are the students. All aspects of education focus on the core values of contributing to national development while fostering global competencies among students. The College admits students from all social milieus and empowers them through intensive mentoring and counselling to face the challenges of life and become responsible and sensitized citizens of the country.

The College imparts education to *Undergraduates and postgraduates* in the following Departments:

Undergraduates:

- Economics
- Botany
- Chemistry
- Physics
- Zoology
- English
- Hindi
- Sanskrit
- Music (Vocal)
- Music (Instrumental)
- History
- Mathematics
- Political Science
- Public Administration
- Geography
- Sociology
- Commerce
- Physical Education
- Computer Science

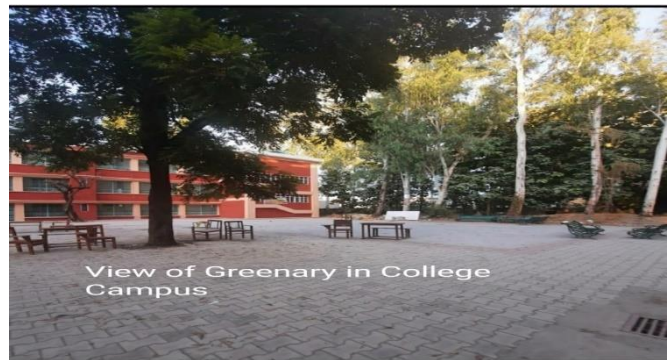


COURSES OFFERED

- I. Bachelor of Commerce
- II. Bachelor of Humanities
- III. Bachelor of Science
(Physical and Life Sciences)
- IV. Bachelor of Computer
Applications
- V. Community College

Postgraduate Courses:

- English
- Hindi
- Political Science
- Economics
- Commerce
- PGDCA
- IGNOU Centre



5.0 OBJECTIVES AND SCOPE

The broad aims/benefits of the eco-auditing system would be

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resource in the campus.
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the College campus and its environment
- Enhancement of College profile
- Developing an environmental ethic and value systems in young people

6.0 AUDIT PARTICIPANTS

On behalf of Institute:

Name	Position/Department	Position
Dr. Rajesh Trehan	Associate Professor Department of Chemistry	Convenor
Smt. Chinu Bansal	Assistant Professor Department of Physics	Member
Sh. Kamlesh Kumar	Assistant Professor Department of Geography	Member

On behalf of Himachal Pradesh State Pollution Control Board (HPSPCB), Paonta Sahib:

Name	Position/Department	Position
Dr. Hitender Kumar Sharma	Senior Scientific Officer (SSO), Regional Laboratory.	Member
Er. Pawan Sharma	Assistant Environmental Engineer (AEE), Regional Office.	Member
Er. Jitender Singh	Junior Environmental Engineer (JEE), Regional Office.	Member

7.0 EXECUTIVE SUMMARY

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

The College has already done internal green assessment and annual reports published for continual improvements; NAAC Programme and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.

8.0 AREAS OF IMPROVEMENT

Environment Policy to be adopted by the College Campus.

- Water Meter should be installed and maintain the inventory of ground water extraction resource bore well.
- Stack height of DG set should be as per DG Rules.
- Storage of chemicals like; paints, gums resins, oils, lubricants, acids etc. in designated place and safety/warning signs should be displayed.
- Internal inspection system should be developed for various aspects of environment available in campus.
- Waste Management plan should be prepared for the campus.
- Display of environment awareness posters should be there in the prominent areas of campus.
- All labs should follow the safety points for storage, use and disposal of hazardous substances.
- Chemical waste treatment plant should be as per norms. Biowastes must be treated properly before disposal.
- No vehicle day should be observed as a message to save the environment.

- Solar plant should be installed as renewable and clean source of energy.
- Star rating of electric equipment's should be considered for new purchases to save energy.
- Walking, use of bicycles, public transport and pooling of vehicles should be promoted and encouraged.

9.0 ENVIRONMENTAL AUDIT QUESTIONARE

The areas of environmental auditing to be followed/practiced by participating institution:

- 1 Waste Minimization and Recycling
- 2 Greening
- 3 Water Conservation
- 4 Clean Air
- 5 Noise Control
- 6 Environmental Awareness

Does any Environmental Audit has been conducted earlier?

The college has conducted the internal Green Audit under the Eco Club of the College. The Annual reports records reviewed during the audit, Main focus of this is to bring awareness of environmental values in students and society. Now, the audit for environment is awarded to the internal committee with members from state pollution control board for a systematic way of monitoring the environmental eminence initiative, taken by college for environment protection.

What is the total permanent population of the Institute?

Stake Holders	Male	Female	Total
Students	1181	1011	2192
Teachers	17	20	37*
Non-Teaching Staff	10	04	14#
Sub Total	1208	1035	2243
Approximate Number of Visitors including IGNOU Students (Per day)			100
What is the total number of working days of your campus in a year?			180

*Note: * The total population (Teaching Staff *37; Non-Teaching Staff # 14)*

Which of the following are available in your institute?

1	Garden area	Available
2	Play ground	Available
3	Toilets	Available
4	Garbage Or Waste Store Yard	Available
5	Laboratory	Available
6	Canteen	Available
7	Hostel Facility	Not- Available



Which of the following are found near your institute?

1	Municipal dump yard	Not in vicinity of institute
2	Garbage heap	No Garbage heaps
3	Public convenience	Yes
4	Sewer line	4 km sewer line within campus
5	Stagnant water	No stagnant water
6	Open drainage	No
7	Industry – (Mention the type)	No
8	Bus / Railway station	Far away from campus
9	Public halls	Yes


9.1 WASTE MINIMIZATION AND RECYCLING




<p>1. Does your institute generate any waste? If so, what are they?</p>	<p>Yes, Solid waste, Canteen waste, paper waste, plastic waste, Lab waste, toiletry waste, Horticulture Waste, etc.</p>			
<p>2. What is the approximate amount of waste generated per day? (In Kilograms/month) (approx.)</p>	<p>Bio Degradable</p>	<p>Non-Biodegradable</p>	<p>Hazardous</p>	<p>others</p>
	<p>40kg</p>	<p>4kg</p>	<p>1kg</p>	<p><6kg</p>
<p>3. How is the waste generated in the institute managed? By:</p> <ul style="list-style-type: none"> 1 Composting 2 Recycling 3 Reusing 4 Others (specify) 	<p>Composting pits are there in campus, Reuse of one side printed Paper for internal communication. Sewage water is discharged to public Sewer. Domestic Waste is given to Municipal Council. Two types of Waste bins are provided at campus for biodegradable and non-biodegradable waste. Horticulture waste is also given to Municipal Corporation and also used for compost formation. Incinerator is used for managing sanitary waste.</p> <div data-bbox="662 1430 1414 1801" data-label="Image"> </div>			

4.	Does institute produce any chemical or bio waste? How it's dealt with?	Chemistry labs produce chemical wastes and all the waste is collected in a treatment plant before disposing off in the sink (septic tank).
5.	Do you use recycled paper in institute?	Yes, in academic evaluation works
6.	Do you use reused paper in institute?	Yes
7.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Yes, Societies and clubs of the college carried out numerous activities. Recycling campaigns, waste management, Anti plastic campaigns, Varsha Vriksharopan, cleanliness awareness rallies and sustainable goal awareness programme.
8.	Can you achieve zero garbage in your institute? If yes, how?	Yes, as per new waste management rules all kind of waste is managed in an adequate manner without any deviation.

9.2 GREENING THE CAMPUS

9.	Is there a garden in your institute?	Yes, botanical garden, herbal garden and open Green Area.	
10.	Do students spend time in the garden/ open areas?	2-4 Hours during winters 	
11.	Total number of Plants in Campus	Plant type	Approx. number
		Trees	More than 200
		Shrubs	More than 100
		Grass Cover	1.5 Acre

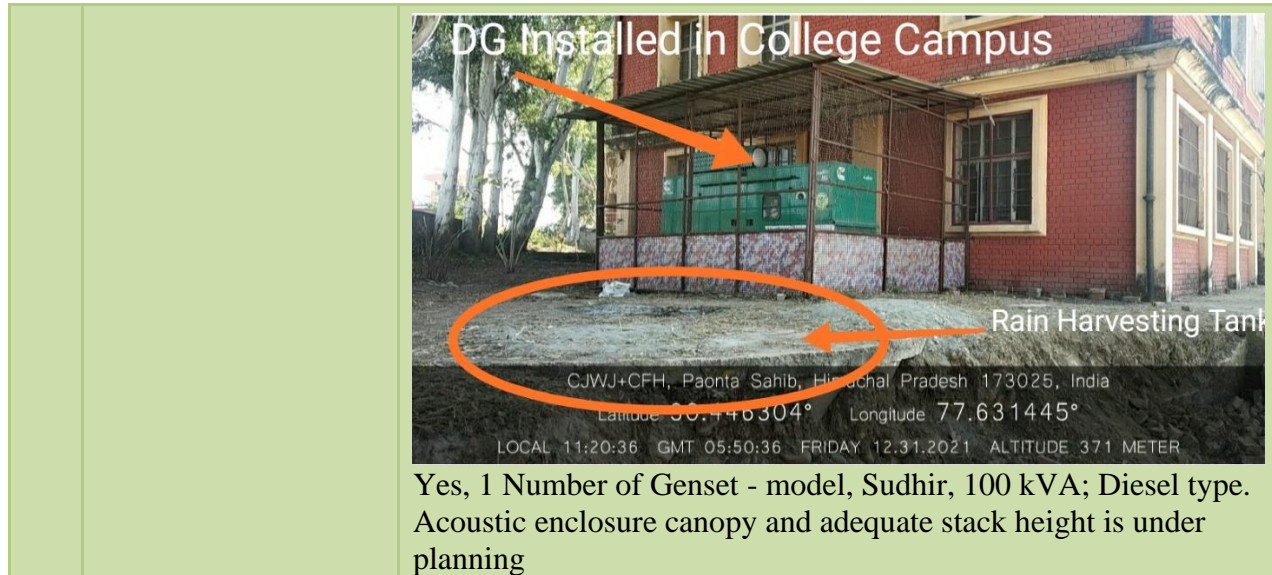
<p>12. Suggest plants for your campus. (Trees, vegetables, herbs, etc.)</p>	<p>Ashoka, eucalyptus, mango, Bael, guava, neem, arjun, Ficus Religiosa, Sal, Bougainvillea, Aloe vera, Jamun, Amla, Khair, Azadirachta indica, parijat, thuja and many more as per geographical regime.</p>  <p>View of Greenery at College Campus Canal Rd, Paonta Sahib, Himachal Pradesh 173025, India Latitude 30.445860° Longitude 77.632411° LOCAL 11:16:00 GMT 05:46:00 FRIDAY 12.31.2021 ALTITUDE 368 METER</p>
<p>13. Is the College campus have any Horticulture Department</p>	<p>No</p>
<p>Number of Staff working in Horticulture Department</p>	<p>NA</p>
<p>14. Number of Tree Plantation Drives organized by college per annum. (If Any)</p>	<p>Yes, Three Tree Plantation Drives are Organized Annually. 50+ trees and 100+ shrubs planted in this financial year.</p>
<p>15. Number of Trees Planted in Last FY.</p>	<p>40</p>
<p>Survival Rate</p>	<p>60%</p>
<p>16. Plant Distribution Program for Students and Community</p>	<p>Yes, Seed Bank is developed and, Saplings are distributed to Students and visitors at various Occasions.</p>
<p>17. Plant Ownership Program</p>	<p>No</p>
<p>18. List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)</p>	<p>More than 100 Squirrels are found in the campus, approx. 4 dogs, 4 cats and others including butterflies, insects, bees, earthworms, etc. are there in campus. Monkeys and baboons are often seen in the campus.</p>

9.3 WATER CONSERVATION

19.	List uses of water in your institute	Basic usage of water in campus are; Drinking, Gardening, Kitchen of canteen, Labs & Toilets, and Others and total consumption is approx. 450 KL/month
20.	How does your institute store water? Are there any water saving techniques followed in your institute?	Overhead Water tanks installed for storage of water. Avoid overflow of water-controlled valves are provided in water supply system.
21.	If there is water wastage, specify why and how can the wastage be prevented / stopped?	No
22.	Locate the point of entry of water and point of exit of waste water in your institute.	Entry- Water comes from borewell and MC water supply at campus Exit- From Water Drainage System to the back of campus
23.	Write down few ways that could reduce the amount of water used in your institute	By Following ways: 1. RWH, Close the taps after usage 2. Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage 3. Water Conservation awareness for new students
24.	Does your institute harvest rain water?	Four number of Modern rain water harvesting system are available.
25.	Is there any water recycling System?	Yes, RO waste water is stored in tank and is attached to toilet supply. Drain water of ACs is used in gardening.


9.4 CLEAN AIR

26.	Are the Rooms in Campus being Well Ventilated?	Yes				
27.	Window Floor ratio of the Rooms	Very Good				
28.	Provide details of college-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	-	--	--	--	--
	No. of vehicles more than five years old	--	--	--	--	--
	No. of Air-conditioned vehicles	--	--	--	--	-
	PUC done	--	--	--	--	--
29.	Specify the type of fuel used by your college's vehicles:	Total				
	Diesel	--				
	Petrol	--				
	CNG	--				
	LPG	--				
	Electric	--				
30.	Air Quality Monitoring Program (If Any)	Yes, monitoring is being done by Himachal Pradesh State Pollution Control Board.				
31.	Students suffer from respiratory ailments? (If Any)	No				
32.	Details of Genset					





9.5 ENVIRONMENTAL LEGISLATIVE COMPLIANCE

33.	Whether ambient noise measurements performed within the campus?	Yes, by Pollution Control Board and found within the limits of Silence Zone, both during day and night time.
34.	What is the permissible level of noise? Does the campus fulfil the norms?	Permissible values: Day Time 50 dB, Night Time 40 dB. Measured values in the campus: Day Time 42dB & Night Time 34 dB. Values are within the prescribed limit.
35.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
36.	Does your institute have any rules to protect the environment? List possible rules you could include.	They have banned single use plastic. Their environment policy includes awareness, and environmental conservation efforts through Eco Club, Beyond the Campus-Environmental Activity Society, NSS, Life Skills Committee and various Departments. All under graduates are studying the paper of Environmental Sciences, prescribed by UGC.

37.	Does Environmental Ambient Air Quality Monitoring conduct by the Institute?	<p>Yes, RSPM found within the prescribed limits as reported by Pollution Control Board.</p> 
38.	What is the prescribed limit of RSPM values in ambient air? What are the campus values?	<p>RSPM within campus is 60.79 $\mu\text{g}/\text{m}^3$. Permissible Value: up to 100 $\mu\text{g}/\text{m}^3$.</p>
39.	Does Water and Wastewater Quality monitoring conduct by the Institute?	<p>Yes, drinking water quality from the borewell was monitored by Pollution Control Board and found proper.</p>
40.	What tests were performed for drinking water? What results were found?	<p>Bacteriological tests (total coliform and faecal coliform) were performed. TC-2.0, FC- nil were reported, they are within the prescribed limits and predicts good quality of drinking water.</p>
41.	Does stack monitoring of DG sets conducted by the Institute?	<p>Yes</p>
42.	Is any warning notice, letter issued by state government bodies?	<p>No</p>
43.	Does any Hazardous waste generate by the Institute?	<p>Yes, chemical waste in chemistry labs but treatment plant is there for its disposal.</p>
44.	Does any Bio medical waste generate by the Institute? If yes explain its category and disposal method	<p>No</p>

9.6 GENERAL

45.	Are the stakeholders aware of different types of pollution and how to check them?	Yes, this is covered under the course of Environmental Studies, mandatory for undergraduate students.
46.	Does your institute have any societies/clubs to protect the environment?	Yes, Eco Club, Society for Beyond the Campus Environmental Promotional Activities, NSS wing, Life Skills Club etc. promote environmental awareness among the masses and work for the conservation of environment within and outside the campus.
47.	Does housekeeping schedule in your campus?	<p>Yes, Swatch Bharat movement</p> 
48.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	<p>Yes, periodically pollution reduction, plantation, energy conservation awareness campaigns carried out by institute.</p> 
49.	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes

50. Does Institute participate in National and Local Environmental Protection Movement?

Yes, Swatch Bharat Abhiyan, Yamuna Bacchae Abhiyan by students at campus.



51. Does Institute have any Recognition/certification for environment friendliness?

Yes, Air quality, water quality and ambient noise were measured by the Pollution Control Board and were found within the prescribed limits.



Environmental Monitoring Report of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib

Regional Office, Panita Sahib, HIMACHAL PRADESH, India
 Email ID: jprb@himprpcb.org, Phone: 01744-231870

No. PCB/RO/Panita/Phy/Misc/2021- 2056 Date: 01.12.2021

To: The Principal, SSGSI Government Degree College Panita Sahib, Dist. Simla (HP)

Subject: Regarding Environmental Monitoring Report of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib

Madam,

This is in reference to your office letter no. 1708 dated 20.12.2021 in the subject matter cited above. In this context the environmental monitoring of your campus was done on dated 28.12.2021 and 29.12.2021 and results of the same are enclosed with this letter as Annexure-I.

Submitted for your kind information and further necessary action please.

Yours faithfully,
 (P) J. Prasad
 Regional Officer
 (H)NCR (H) Panita Sahib

Annexure-I
 Environmental Monitoring Report of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib

(1) Air Quality Measurement:- Ambient air quality of the college campus was measured on dated 28.12.2021 and 29.12.2021 and results of which are as follows:

Sr. No.	Type of Sample	Sampling Location	SPM ₁₀ Measured (24 Hours Avg. value in $\mu\text{g}/\text{m}^3$)	Permissible Limit (24H)	Remarks
1	Ambient Air Sample	All campus of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib	66.79	200	SPM ₁₀ at campus of college is found within prescribed limit.

(2) Water Quality Measurement:- A water sample was taken from the drinking water source (borewell) of the college on dated 28.12.2021 and results of which are as follows:

Sr. No.	Type of Sample	Sampling Location	Parameters Measured	Results	Permissible Limit	Remarks
1	Water Sample	Borewell at campus of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib	Bacteriological (Total Coliforms, Total Coliforms, Fecal Coliforms)	(1) Total Coliforms (TC) < 2.0 (MPN/100ml) (2) Fecal Coliforms (FC) < 1.0 (MPN/100ml) (3) Total Dissolved Solids	(1) TC: < 500 (2) FC: < 100 (3) TDS: < 500	Bacteriological parameters found within prescribed limit.

(3) Ambient Noise Measurement:- Noise monitoring was carried out at Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib campus which is a Borewell Zone over on dated 28.12.2021. The results of noise samples are as follows:

Sr. No.	Location	Sampling Time	Noise Level Measured (dB)	Permissible Limit (dB)	Remarks
1	All campus of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib	Day Time	42.89	55 dB	Ambient noise level was found within prescribed limit.
2	All campus of Shri Gurs Gobind Singh Ji Govt Degree College Panita Sahib	Night Time	34.86	45 dB	Ambient noise level was found within prescribed limit.


(P) J. Prasad
 Senior Environmental Engineer
 H.I. Sanjiv Pollution Control Board, Panita Sahib

52. Does Institute use renewable energy?



Yes

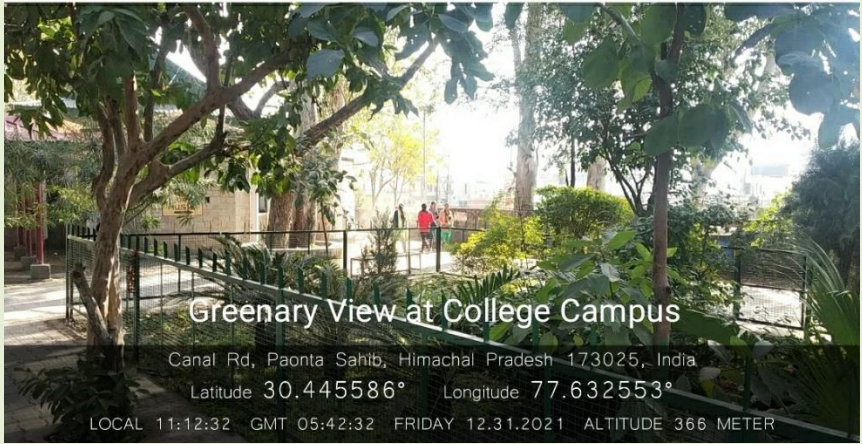

53. List few ways that you use to conserve energy in the campus.


Use of LED lights, LPG is used in chemistry labs instead of petrol-based gas plant, pressure cookers are used in the canteen, number of solar lights also installed.




<p>54. Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some</p>	<p>Use of Natural Lights and Natural Ventilation are promoted. Solar Energy Plant will be installed in the future. Solar lights have been installed at some places. Messages will be displayed at various locations to aware the People about Energy Savings.</p>
<p>55. Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?</p>	<p>No. Rather sometimes they are run on power saving mode.</p>
<p>56. Does Institution conduct a green/environmental audit of its campus?</p>	<p>Yes, this is first environmental audit done by the College.</p> 
<p>57. Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?</p>	<p>Yes, NAAC grade B++</p>

10.0 BEST PRACTICES/INITIATIVES FOR ENVIRONMENT

<p>A Renewable Energy Solar panel installed at some places in the college. A clean source of energy is utilized at campus. Efforts towards Carbon Neutrality</p>	 <p>Rain Harvesting Tank, Dustbin, Solar Energy System Installed near College Canteen</p> <p>Canal Rd, Paonta Sahib, Himachal Pradesh 173025, India</p> <p>Latitude 30.445584° Longitude 77.631569°</p>
<p>B Biodiversity Conservation Flora and fauna conservation</p>	<p>They have lush green campus which provides habitat to various species. Recently conducted bird count reports Indian peafowl, parakeets, Sunbird, black kite, house crow, Hume’s warbler, large billed crow, wood pecker, jungle babbler, roofers treepie, common tailor bird, Eurasian collar dove, oriental magpie Robin, bulbul, Green bee eater, brown headed green barbet, Brahminy Starling, Pavo cristatus, Indian Robin.</p> 

	 <p>Greenary View at College Campus Canal Rd, Paonta Sahib, Himachal Pradesh 173025, India Latitude 30.445586° Longitude 77.632553° LOCAL 11:12:32 GMT 05:42:32 FRIDAY 12.31.2021 ALTITUDE 366 METER</p>
<p>C Tree Plantation Drives</p> <p>Two Drives Annually as well as Every Guest is honoured by Tree Plantation at Campus.</p>	<p>Yes, periodically the plantation drives by students and staff of campus.</p>  <p>Plantation Drive Beyond the college Campus</p>  <p>Plantation Drive Beyond the College Campus</p>

D	<p>Ground Water Recharge</p> <p>04 units of Rain Water Harvesting System.</p>	<p>Yes, 100% recharge of the rain water</p> 
E	<p>Pollution Reduction</p> <p>Personal Vehicles (Students) not allowed at campus</p>	<p>Reduction in Air Pollution through vehicular emission.</p>
F	<p>E Waste Management</p> <p>Collection of e-waste by staff</p>	<p>E-waste is sent to the authorized recyclers for adequate disposal</p>
G	<p>Solid Waste Management</p> <p>Lifting of garbage from campus on alternate day by Municipal Council.</p> <p>Yes, different mechanisms for proper disposal and recycling of e-waste, plastic waste, biodegradable waste and MSW.</p> <p>Lab Waste Management: Treatment plant for the disposal of chemical waste outside the chemistry labs.</p>	
H	<p>Adoption of Village/society</p>	<p>No, but the General Environmental awareness campaigns like Beat the Plastic, Swatch Bharat Abhiyan, Environmental Promotional activities-Beyond the Campus initiated by college.</p>

	 <p>Environmental Awareness Activity Beyond the College Campus</p>  <p>Cleanliness Drive Conducted in College Campus by R&R</p>
<p>I Water Conservation</p>	<p>Yes, water saving push taps fitted in the drinking water zone and the toilets to avoid the wastage. They are re-using RO waste water in their washrooms.</p>  <p>Use of Water cooler for Drinking water at College Campus CJWJ+4R7, Paonta Sahib, Himachal Pradesh 173025, India Latitude 30.445362° Longitude 77.632098° LOCAL 11:26:27 GMT 05:56:27 FRIDAY 12.31.2021 ALTITUDE 365 METER</p>
<p>J Involvement of Students in some Environmental Projects</p>	<p>Chemistry students of the institute worked on small projects on Soil Analysis, Water Analysis and Analysis of some food products and submitted their reports.</p>

11.0 RECOMENDATIONS

- Formation of Environment Policy and communicate to all stake holders.
- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Stack Monitoring of DG sets, Water monitoring, Noise and soil monitoring need to be conducted by Himachal State Pollution Control Board or approved laboratory with frequency of six month.
- Reduction in use of paper work by go digital system.
- Water Meter should be installed at institute for monitoring of water consumption for landscape.
- Installation of Solar Plant and Wind Mill.
- Increase in Environmental promotional activities for spreading awareness at campus.
- As practically feasible avoid use of personal vehicles inside the campus.



12.0 CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The SGGSJ Govt. College, Paonta Sahib has Environmental Committee for sustainable use of resources. Overall, 60% of

campus is for landscaping. The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for college authorities to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but few things are important to initiate urgently are waste management records by monthly inventory of hazardous waste, rainwater harvesting recharge; water balance cycle and periodic inspection of buildings housekeeping and environment policy.



13.0 REFERENCES

1. The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
2. The Petroleum Act: 1934 – The Petroleum Rules: 2002
3. The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
4. Rules:1989 (Amended in 2005)

5. Energy Conservation Act 2010.
6. The Water [Prevention & Control of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
7. The Air [Prevention & Control of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
8. The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981
9. E-waste management rules 2016
10. Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
11. The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
12. The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
13. The Batteries (Management and Handling) rules, 2001 (Amended 2010)
14. Relevant Indian Standard Code practices
15. Internal Records of the Campus

14.0 TRANSPARENCY OF GREEN AUDIT REPORT

Green audit report is one of the useful means of demonstrating an organization/Institution's commitment to openness and transparency. If an Institute believes it has nothing to hide from its stakeholders, then it should feel confident enough to make its green audit reports freely available to those who request them. As a basic rule, environment audit reports should be made available to all stakeholders.