Smt. Pramila Gokuldas Daga Girl's College

Raipur, Chhattisgarh

ENVIRONMENT (GREEN) AUDIT REPORT

2020-2021

Environment (Green) Audit 2020-2021

Smt. Pramila Gokuldas Daga Girl's College Raipur, Chhattisgarh

REPORT

The Green Audit Report of Smt. Pramila Gokuldas Daga Girl's College, Raipur, Chhattisgarh is based on the original data collected during the period of study. Further, the baseline data was prepared by the internal Green Audit team of Smt. Pramila Gokuldas Daga Girl's College Raipur, Chhattisgarh and submitted to us. The content of the baseline data of the study has been personally verified for validity and reliability. The data used in the study are original in nature and have not been presented or published elsewhere. Photographs used in the report are either taken directly by the audit team or are given by the internal audit team.

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Acknowledgements

The Green Audit team thanks the Management and the Principal of **Smt. Pramila Gokuldas Daga Girl's College** for entrusting us the green audit of their campus. We wholeheartedly thank the teaching and non-teaching staff and students for their timely support rendered to the green audit team at different stages of the process that helped us to complete the audit in time. We also thank heads of various departments and the teacher in charge from each department for sharing documents and information in time. We thank the teacher and student coordinators of different audit teams. The support from the office staff during visit to the campus for verification of documents is also highly appreciated.

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MEMBERS OF AUDIT COMMITTEE

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Dr. Priya Chandrakar, Assistant Professor, Physics
Dr. Jolly Pal , Assistant Professor, Chemistry
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About 'Daga College'

Smt. Pramila Gokuldas Daga Girl's College is vision of Rashtriya Vidyalaya Samithi started by late **Sethi Nemichan and Shrishrimal** in **1987** with foresightedness and modern vision of starting girl's college for womens education, cultural and social development. The institute was started with 17 students and 03 faculty, and the rapid growth is evident through admission number. Institute is catering to the need of girls belonging to disadvantageous and deprived section of both rural and urban areas in and around Raipur.

It is affiliated to Pt. Ravishankar Shukla University, Raipur and recognized under section 2(f) and 12(b) of UGC. It was challenging task to establish Girls College with minimum resources. With the utmost support and broad vision of managing committee the unconditional dedication of teaching and non-teaching staff, "**Daga College**" has achieved its vision of self-reliance through education with 1621 students in 2021.

The institute has been aware of its responsibilities towards society. So continuously paving ways to the holistic development to the girls, making them self-sufficient to discharge the social responsibility in all direction. Institute is providing education in science with Biology, Maths, Computer, Arts, Commerce and professional course BCA, DCA up to graduation level and post-graduation in commerce, Arts and PGDCA. Institute is decorated with modern facilities and well equipped laboratories, classrooms.

A huge open-air space and organized campus is present with all the up-to-date resource and facilities for students. Institute has well equipped computer labs with required licensed software and LAN connectivity. A playground is available in premises to cater the need of physical activities. The college has to its credit of participating and organizing sector, inter sector, inter college and state level sports tournament and securing positions in these tournaments. Well qualified staff is involved in the process of teaching and trying to inoculate value education in ethics to them. The managing committee and governing body with their dynamic outlook and vision hand in hand share the dream of taking institute to the zenith.

Total Campus Area of Daga College

Campus Area	**0.79 acre**
Built-up Area	**4206 m^2**

Rashtriya Vidyalaya Samiti

Rashtriya Vidyalaya Samiti follows the rule of "no profit no loss" to educate young women of the society. Smt. Pramila Gokuldas Daga Girls College is one of the efforts to the idea of educating women in a safe and secure atmosphere.

Institutions run by Rashtriya Vidyalaya Samiti

Rashtriya Vidyalaya Established in 1921 Affiliated to Chhattisgarh board of secondary education	**Bal Ashram** Established in 1924 Affiliated to State Govt. of C.G.	**Smt. Pramila Gokuldas Daga Girls College** Established in 1987 Affiliated to Pt. Ravishankar Shukla University

College Campus Location

Smt. Pramila Gokuldas Daga Girl's College

Kutchery Chowk, Raipur, Chhattishgarh-492001

(Location: 21.24677, 81.64048)

Vision & Mission

Vision

We the Management, Administration, Teaching and Non-Teaching Staff are working together with a vision to providing educational excellence and inculcating ethical and moral values to young women so that they should flourish intellectually strong, socially responsible to contribute vital part in building of developed society and nation.

Mission

1. Shaping and motivating students through various co- curricular activities along with studies.
2. Making students aware about their responsibilities as a sincere citizen.
3. To promote self-employment among girl students.
4. To save future citizens by providing them moral, social, economical and legal knowledge.
5. Guiding and promoting students to higher education, research, teaching and entrepreneurship.
6. To develop sporting spirit among students by keeping them fit and participation in various sport activities.
7. To keep a clean and healthy environment, favorable for all.

Departments in Daga College (04)

1. Department of Commerce

In 1993 the institute started commerce subject as one of the streams, to provide opportunities for the development of commercial skills and capabilities to girls. Now both graduation and post-graduation course B.Com and M.Com respectively are running in the institution with 400 seats. The main objective of commerce department to make students acquainted with subjects like economics, accountancy, finance, business mathematics, book keeping etc.

2. Department of Science

To improve analytical skills and practical knowledge of the surrounding, Department of Science was started in 1987 with the establishment of institute. In college B.Sc. (Biology/Maths/Computer) is available with total of 400 seats for every year.

3. Department of Computer

The Department of Computer Science was established to meet the demand for quality education for girls and was conceived in the year 2001. Department focuses on theoretical as well as Practical knowledge of Computer subjects. Department has well qualified and vibrant faculties dedicated for the betterment of the students. Total 110 seats are available every year. Most of the students passed out from institute are well placed or have opted for higher studies. The department has well-equipped labs with latest software. LAN and Internet connectivity is key feature of labs.

4. Department of Language

First & second both languages are equally important to enhance one's capability in the field of education, so the foundation course is designed to improve the possibility of holistic development, Currently 400 seats are available. From the establishment of this institute department of language was also establishment in 1987.

Courses offered

1. B.Sc. (Biology)
2. B.Sc. (Maths)
3. B.Sc. (Computer)
4. B.Sc. (Electronics)
5. B.Com. (Plain)
6. B.Com. (Computer)
7. B.C.A.
8. D.C.A.
9. P.G.D.C.A.
10. M.Com.
11. BA
12. MA (Political Science)
13. MA (History)

Campus infrastructure Facilities

The Smt. Pramila Gokuldas Daga Girl's College campus is located in Kutchery Chowk, Raipur, Chhattishgarh and is well connected by rail and road. The following table gives details about the infrastructure of Daga College.

S. No.	Name of Building	Number/ Available
1.	Classrooms	**50 spacious and well ventilated classrooms**
2.	Laboratories	**05 Laboratories (one for each: Physics, Chemistry, Zoology, Botany, Computer)**
3.	Computer Lab	**02 Computer**
4.	Auditorium	**Yes for Common functions**
5.	Canteen	**Yes (01)**
6.	Library	**Yes**
7.	Hostel	**No**
8.	Staff room	**Yes (02)**
9.	Office	**Yes (01)**
10.	Washrooms (Students/ Gents/ Ladies/ Staffs)	**Yes (08)**
11.	Garden	**No**
12.	Playground	**Yes**
13.	Parking (Vehicle stand)	**Yes**
14.	Solar Panel	**No**
15.	E-waste management	**Yes**
16.	Fire Extinguisher	**No**


GPS Map Camera
Raipur, Chhattisgarh, India
6JWR+W7R, Moudhapara, Raipur, Chhattisgarh 492002, India
Lat 21.246674°
Long 81.640253°
11/01/23 09:36 AM GMT +05:30
Google


GPS Map Camera
Raipur, Chhattisgarh, India
6JWR+RCQ, Moudhapara, Raipur, Chhattisgarh 492002, India
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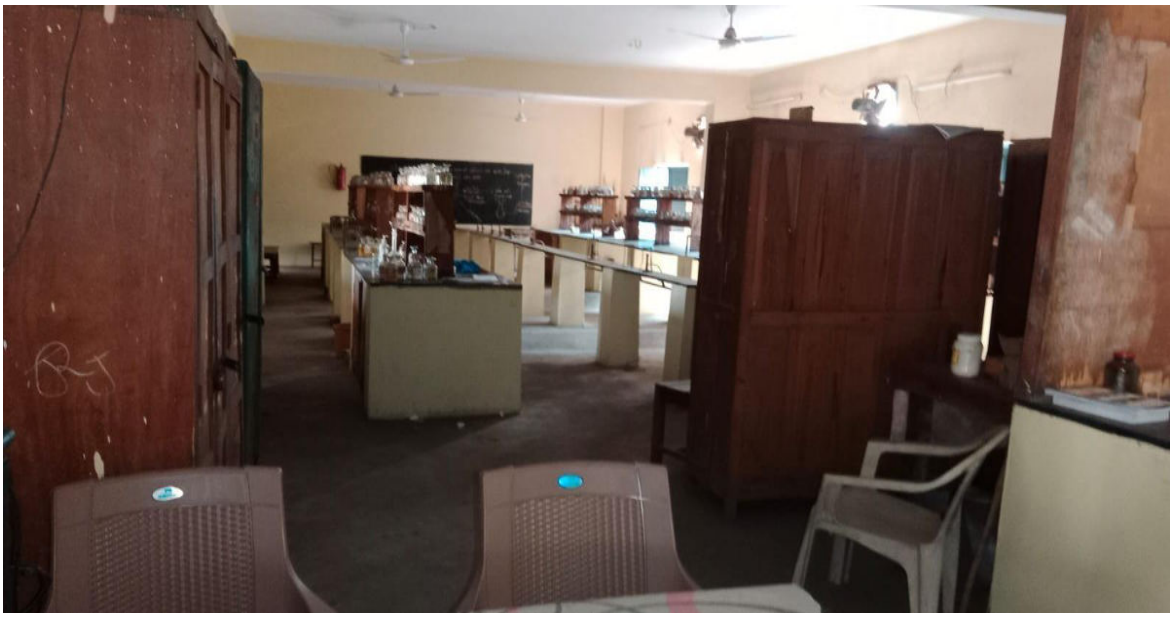
Long 81.640698°
11/01/23 09:39 AM GMT +05:30
Google

Class Rooms

Computer Lab



Chemistry Lab

Zoology Lab

Botany Lab

Physics & Electronics Lab

Library of College

Parking facility

Canteen

Playground

Total Strengths of Daga College

Strength	2020-2021
Number of Enrolled Students	1621
Number of Faculties	26
Number of Staff	16

Instrumentation facilities at Daga College

Following instruments are available in the laboratories of college:

Physics Lab - PNP, Zener Diode, PN Junction, LED, FET, MOSFET, BAND-GAP Reflection Magneto Metre, Sonometer, Voltmeter, Ammeter, Meter Bridge, Compass, Galvanometer, A.C. and D.C. meter.

Chemistry Lab - Conductivity Meter, Ph Meter, etc.

Electronic Lab - Logic-Gate, Microprocessor, A.C. and D.C. meter, Resistance, Diode.

Botany Lab - Dissecting Microscope, Compound Microscope, Light Microscope, Gangs Potometer, Respirometer.

Zoology Lab - Centrifuge, Microfuge, Hot Air Oven, Physical Balance.

Computer Lab - Computer, Projector, Wifi router, LAN Cable, Printer, Scanner.

Introduction to Environment (Green Audit)

The Green audit process was began in the 1970s with an intention of identifying the activities carried out in a given institution or company. This was initiated against the background of growing concern over changing climate and related aspects. Green audit is a tool to identify the range of environmental impacts and assess the compliance of the operations on the development and regular activities within an organization. It may also assess the compatibility of the operations within an organization or a company with existing applicable laws and regulations and the expectations of their various stakeholders. It further assesses the possible implications and effect of pollution due to the operations within the organization. The audit also seeks to identify possible means and methods to save investments, enhance work quality, improve health and safety of their employees, reduce liabilities and reduce the rate of

environmental pollution. A continuous process of such audit might result in maintaining the quality of these aspects within the premises of any organization.

Objectives of Environment (Green Audit)

The Green Audit process holds several potential objectives which are as follows:

- To enhance awareness towards environmental guidelines and responsibilities among each and every citizen.
- To ensure that the performance of the institution with respect to environmental activities they are involved in, is in compliance with existing laws and regulations.
- To check the functionality and their operating success including water supply, energy related matters and other similar matters that are related to green operations in the campus.
- To prepare a checklist of flora diversity within the campus.
- To suggest measures to improve biodiversity within the college campus.
- To monitor the energy consumption pattern of the college.
- To assess the quantity of water usage within the college campus.
- To suggest sustainable energy usage and water conservation practices.
- To find out various sources of organic and solid waste generation and mitigation possibilities.
- To provide a healthy environment in campus.

Green Audit Process

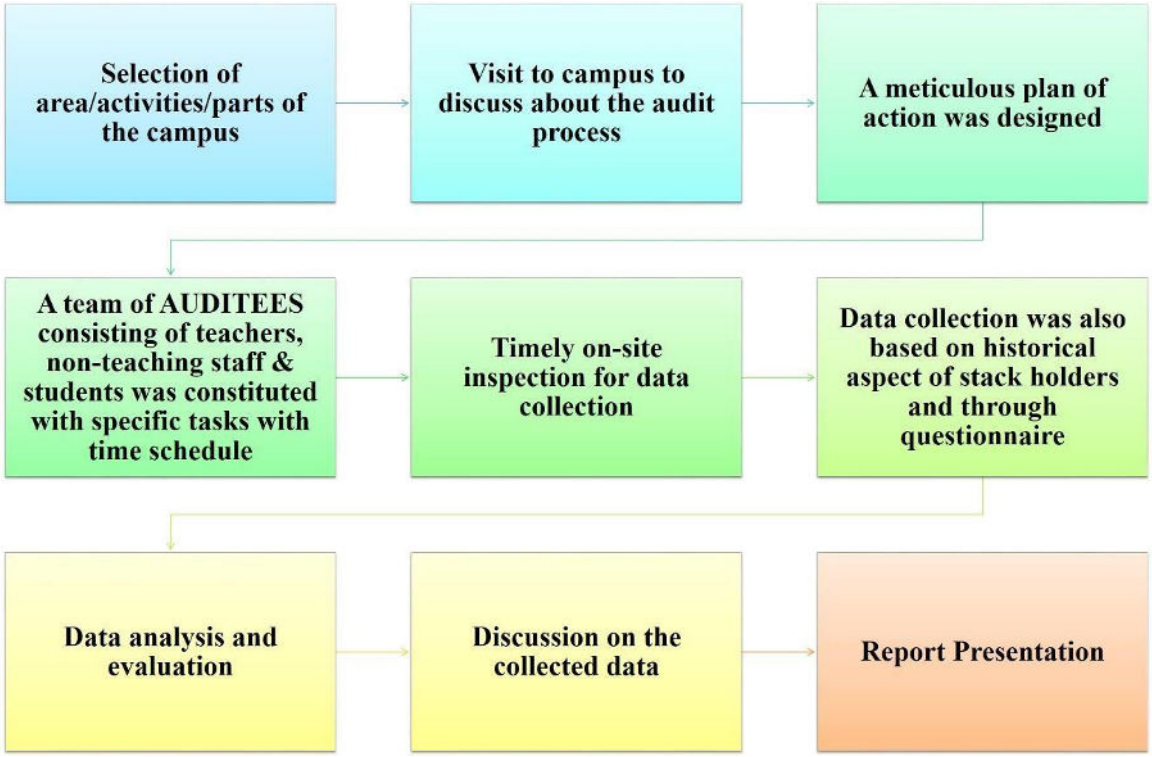
Green Audit process at Daga College was conducted broadly in three phases as:

a) **Pre-audit activity:** It includes the preparatory steps before green auditing such as open discussion about the target areas of audit among the audit committee and formulating some potential strategy for the auditing process.

b) **Audit:** was done in a sequential manner as indicated below in flowchart

Site inspection: The College and its premises were visited and analyzed by the audit-teams several times to gather information. Campus trees were counted and identified, play grounds, canteen, library, office rooms and parking grounds were also examined to collect data.

c) **Action Plans and Recommendations:** Provide standards and method of improvement by adopting sustainable green measures.



Sequential steps in a Green Audit Process

The following were different criteria/target areas set forth for the present green audit.

1. **Green Practices (Biodiversity Audit)**
2. **Waste Management (Waste Audit)**
3. **Water Management (Water Audit)**
4. **Energy Management (Energy Audit)**

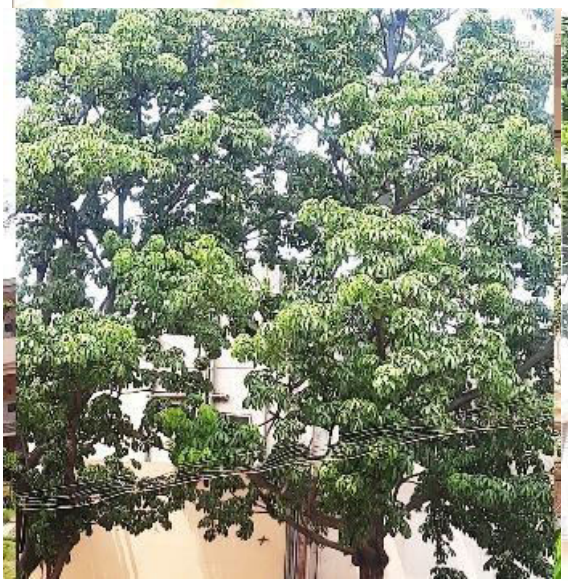
A detailed questionnaires (included in annexure I-III) for each criteria was prepared based on the campus visit and thorough evaluation of the previous audit. The audit team has collected information that is well addressed in the questionnaire.

1. Green Practices (Biodiversity Audit)

Biodiversity or Biological diversity is a term that describes the variety of living beings on earth. Biodiversity is the variety of life. It can be studied on many levels. At the highest level, one can look at all the different species on the entire Earth. On a much smaller scale, one can study biodiversity within a calibrated ecosystem of an educational campus. Biodiversity– the variety of all living things forms the foundation of the processes that we rely on for life: clean air, clean

water, soil formation, carbon and nutrient cycling and pollution remediation. The campus biodiversity is an example of how they have imbibed the local practices and culture in preserving local biodiversity within the campus. The college management and authorities who are responsible for greening the campus is aptly adopting methods to preserve and maintaining the local flora.

Daga College Campus Flora		
S. No.	**Common Floral Diversity of College**	**Common name**
1.	*Azadirachta indica*	Neem
2.	*Vachellia nilotica*	Babul
3.	*Delonix regia*	Gulmohar
4.	*Saraca asoca*	Ashoka
5.	*Terminalia catappa*	Bangla-Badam
6.	*Bauhinia variegate*	Kachnar
7.	*Phyllanthus emblica*	Amla
8.	*Mangifera indica*	Mango
9.	*Tabernaemontana divaricate*	Chandani
10.	*Aegle marmelos*	Bael
11.	*Cascabela thevetia*	Kaner
12.	*Hibiscus rosa-sinensis*	Chinese hibiscus
13.	*Psidium guajava*	Guava
14.	*Tinospora cordifolia*	Giloy
15.	*Aloe barbadensis miller*	Aloe Vera
16.	*Dalbergia sissoo*	Shisham
17.	*Tinospora cordifolia*	Giloy
18.	*Datura stramonium*	Jimsonweed
19.	*Ocimum tenuiflorum*	Holy Basil



Beautiful floral diversity of College Campus

Students of related subjects are actively involved in gardening, maintenance, etc. of gardens (floral diversity) within the campus. Students are learning garden techniques by working in the garden with the help of concerned faculties. Garden makes ample space and scope for them to conduct various practical and leisure activities.

2. Waste Management (Waste Audit)

This audit addresses biodegradable waste from college and hostel canteen, paper waste to hazardous wastes of laboratories and worn-out electric & electronic goods, and plastic wastes. Hazardous materials represent significant risks to human health and ecological integrity. Hazardous wastes are also leached out through the e-waste generated in the campus. They often persist in the environment leaving a legacy of land and water contamination for generations. They also accumulate in the tissues of organisms and become concentrated within food chains, leading to cancer, endocrine disruption, birth defects, and other tragedies. The minimization, safe handling, and ultimate elimination of these materials are essential to the long-term health of the planet.

Sources of waste generation in Daga College Campus

Solid waste generated from campus includes mainly paper waste, wet (food/ organic) waste and E-waste from various sections of college including offices, staff rooms, class rooms, laboratories, washrooms and canteen.

Solid Waste Management at Daga College

Blue and Green covered/ pedal-pushed dustbins are placed in the premises. Waste bins are provided everywhere like in staff rooms, classrooms, laboratories, washrooms, playgrounds etc. Daily around 15-20 kg organic/ bio-degradable waste is generated in the campus which includes horticultural waste (leaf fall) which is separately composted in a compost unit and used as a humus for the nourishment of other plants.

Waste Collection Bin in College

Solid Waste Management (Dry and wet garbage) is lifted on a regular basis in college by Municipal Corporation.

Paper Waste Management

Being an academic institution, waste paper is one of the main solid wastes generated in the premises. College has taken steps to minimize and avoid paper usage like:

- Prints and photocopies are taken on both sides of the paper to avoid excess paper usage.
- Rather than photocopy, digitalization (scanning) is practiced.
- Promoting the usage of e-sources for learning purpose rather than the hard copy among students.
- Instead of paper, internal notices and communications are through e-mail/ SMS.

E Waste Management

E-waste was collected at college campus which is then sent to the authorized recyclers for adequate disposal.

3. Water Management (Water Audit)

This audit addresses water consumption, water sources, irrigation, storm water, appliances and fixtures. It is therefore essential that any environmentally responsible institution should examine its water use practices.

S. No.	List uses of water in College	Quantity usage/day (In L)
1.	Drinking purpose	350-400
2.	Gardening	500-600
3.	Washrooms	800-900
4.	Others	300-400

Rain water harvesting (RWH)

RWH system, comprised of rooftop and surface runoff, is provided in the college campus. Through RWH, rain water collected is used for recharging ground water through bores. Rain water collected is also stored in recharge pits/wells which is used for gardening and ground water recharge.

Boring Storage capacity: Water tank of 5000 L Capacity

Drinking water cooler

Rain Water Harvesting at Daga College

4. Energy Management (Energy Audit)

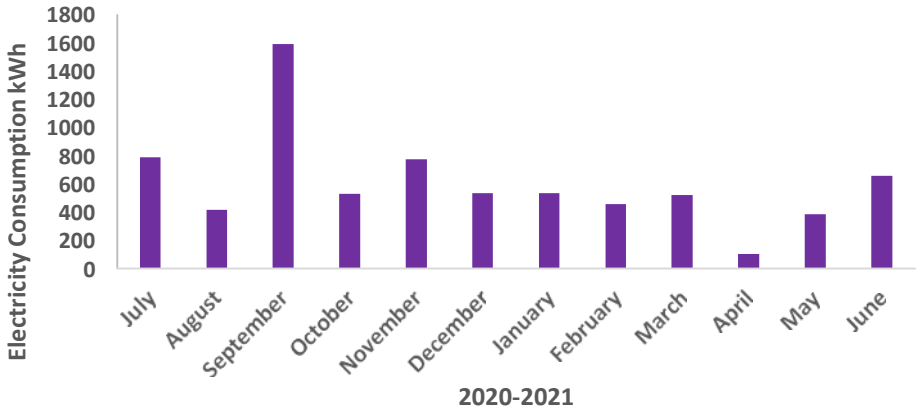
This audit addresses energy consumption, energy sources, energy monitoring, lighting, appliances. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. The college architecture allows enough natural illumination in classrooms/ seminar halls/ laboratories during daytime.

The areas of major consumption of electricity are:

S. No.	Appliances
1.	Tube lights and LEDs
2.	Fans (ceiling fans & wall fans)
3.	Air Conditioners
4.	Computers (desktops & laptops) and its devices
5.	Projectors

LED lights in College

For efficient energy consumption and saving on electric bill, College has initiated the process of replacing incandescent bulbs and tube lights with LEDs.



Total Energy/Electricity Consumption (per month) during 2020-2021 in KWh

Program and Activities organized by Daga College

Environment day Plantation

Swachhata Abhiyan Awareness Program

Recommendations

Smt. Pramila Gokuldas Daga Girl's College, Raipur, Chhattisgarh has implemented several green initiatives such as **Rainwater Harvesting**, **Plantations** which will significantly help in promoting sustainability. Based on the green audit carried out in the College, we have identified a few areas to be improved to achieve a greener and cleaner campus.

- College should install Fire extinguisher to protect the campus from any fire accident, which very important.
- College should install solar system to generate green energy, which will reduce the conventional electricity consumption.
- 'Save Water' posters to be affixed in the classrooms, hand washing areas.
- College should test the drinking water quality at regular intervals.
- Promote the students to use green solvents and green methods in the chemical laboratories.
- The college should plan to initiate a tree/adopt a tree program where each student will be planting a sapling and taking care of it during his or her stay in the college.
- Regular check on the leaky pipe/ water taps to minimize water loss.
- Inventories & management processes of all waste (including food and dry recyclable waste) should be well documented.
- Banners/ posters/ flash/ hoardings regarding environment awareness should be displayed by the college authority on a regular basis.
- The awareness regarding energy management could be improved by encouraging students to help in monitoring energy consumption and by integrating energy education into classroom learning.
- It Gradual replacement of existing non LED based lights to LEDs can further bring down costs for lighting.
- Records of green and environmental initiatives conducted by College should be maintained properly which will include aim & objective of the initiative, details in brief and the outcome.
- Setting up Compost units.
- Rigorous training is needed for both students and staff to inculcate awareness for the need of energy conservation. If everyone ensures switching off lights, fans and electrical gadgets that are not in use energy can be saved considerably.

Future Plan of Action

- Year wise internal audit on green, water and energy to be conducted by respected teachers.
- Proper management and month wise mapping of water and energy usage.
- Department wise awareness programs to be organized by department staff.
- Proper waste water management and conservation practices should be adopted.
- Proper monitoring and disposal of waste discharge from laboratories.
- Implementation of sign boards and indications of water and energy usage.
- The scope for non-conventional energy should be utilized.
- Energy maintenance by using energy saving electrical appliances.
- Plantation should be increased more to achieve cleaner and greener environment.
- Awareness programs/rallies/seminars regarding saving our mother earth should be conducted every month.

Conclusion

1. The management and other authorities of Smt. Pramila Gokuldas Daga Girl's College, Raipur, Chhattisgarh are keen to make the campus a green campus. Moreover, the College members has incorporated the previous suggested amendment during this audit year (2020-2021).

2. Daga College is creating awareness among the students by a practical approach. This is fulfilled by organizing various interesting events and awareness programs.

3. Staff and students are aware about the commitment of the institute towards the society.

4. Green audit at times makes the campus authority to understand the effect of implications towards greenness and conservation of water and energy.

5. The students and staff who are active in green related activities have a clear vision about how and what should be planned for a greener campus. They planted more saplings during the world environment day.

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Energy Conservation Act 2010.

The Water (Prevention and Control of Pollution) Act, 1974.

Annexures

Annexure – I

Green auditing of Smt. Pramila Gokuldas Daga Girl's College

Auditing for Clean and Green campus management

QUESTIONNAIRE

1. Is there a garden in your college? Area?
2. Is there concept based garden (star plants, medicinal plants, agriculture), specify area for each.
3. Do students spend time in the garden? If so, approximate time and purpose. (Lists with priority Annexure-I).
4. List of campus flora (attach a list of plants with details, including scientific name, family, number of plants, etc.) in your campus
5. Name and number of the medicinal plants in your college campus.
6. Any threatened plant species planted/conserved (provide a list with their threat status).
7. List the plants to be planted on your campus in the next three years. (Trees, vegetables, herbs, etc.)
8. List the species planted by the students, with numbers (Annexure –III).
9. Have you got any external funding for developing gardens in the campus? If yes, provide funding details.
10. Explain how you utilized funds for gardens.
11. Whether you have displayed scientific names of the plants in the Campus?
12. Mention the source and quantity of water used (per month).
13. Are you using any type of recycled water in your garden?
14. Who is in charge of gardens in your college?
15. Is there any permanent staff to look after gardens in the campus?
16. List the name and quantity of pesticides and fertilizers used in your gardens?
17. Are you doing any organic practice in your campus? List them?
18. Do you have any composting pit in your college? If yes, what you do with the compost generated?
19. Is there any irrigation system in your college?
20. What are the nature awareness programs conducted in the campus?
21. What are the involvement of students in the green cover maintenance? Planting saplings and maintenance
22. What is the total area of the campus under tree cover?
23. Share your future plans for further improvement of green cover.
24. Have you incorporated green conservation aspects in your curriculum?
25. How often you conduct public programs on green conservation?

Annexure – II

Green auditing of Smt. Pramila Gokuldas Daga Girl's College

Auditing for Clean and Green campus management

Questionnaire for Water Management Auditing

1. What is the total Area of the campus?
2. Number of total teachers, non- teaching staff and students in the campus.
3. Provide a list with different uses of water in the campus
4. Name different sources of water in your college?
5. How many wells are there in your college?
6. Number of electric motors used for pumping water from each well?
7. What is the depth of each well?
8. How does your college store water?
9. Capacity of the overhead water tank/s in the campus? (in litres)
10. Quantity of water pumped every day? (in litres)
11. How do you justify that the water usage is judicious in the campus?
12. Is there any water wastage? If yes, specify why and how.
13. Is there any mechanism to identify water wastage in the campus?
14. What are the possible ways to check wastage of water?
15. Is there any waste water generation happening in the campus?
16. What are the possible sources of waste water in the campus?
17. Where does the waste water go?
18. Are you reusing the waste water after recycling it?
19. Does this water get mixed with ground water?
20. Write down four ways that could reduce the amount of water used in your college.
21. Record of water use from the college water meter for six months.
22. Amount, if any, as charges towards water paid for water connections.
23. Number of water coolers in the campus. Amount of water used per day? (in litres)
24. Number of water taps in the campus. Amount of water used per day?
25. Number of bath rooms and toilets separately for staff rooms, common, hostels.
26. Number of toilets?
27. Amount of water used per day in the toilets?
28. Number of water taps in the canteen. Amount of water used per day?
29. Amount of water used per day for irrigation purpose.
30. Number of water taps in laboratories. Amount of water used per day in each lab?
31. Total use of water in each hostel?
32. Provide a list of month wise water usage in different areas in the campus
33. Is there any water used for agricultural purposes?
34. Is there any rain water harvest system in the campus? If yes, details of the storage capacity?
35. Report on the status of their functioning.
36. Provide number of damaged taps in the campus? Amount of water lost due to damaged taps or water supply system per day?
37. How do you convey the message of water conservation in the campus?
38. How often the garden is getting irrigated?
39. Amount of water used to water the ground?
40. Is there any future plan for the water management in the campus?
41. Are there any water saving techniques followed in your college? Explain?
42. Is there any mechanism by which message on water conservation is been conveyed to staff and students.

Annexure – III

Green auditing of Smt. Pramila Gokuldas Daga Girl's College

Auditing for Clean and Green campus management

Questionnaire for Energy Management Audit

1. List out ways of energy usage in the campus. (Electricity electric stove, kettle, microwave, incinerator; LPG, firewood, Petrol, diesel and others).
2. Electricity bill amount for the last three years.
3. Amount paid for LPG cylinders for last three years.
4. Any other payments towards energy related matters for last three years in the campus?
5. Weight of firewood used per month and amount of money spent? Also mention the amount spent for petrol/diesel/others, if any?
6. Are there any energy saving methods employed in your college? If yes, please specify.
7. What are the types of bulbs used in the campus?
8. Provide a list of number of bulbs of each types.
9. Provide the total energy utilization by each types of bulb per month.
10. How many CFL bulbs has your college installed? Mention use (Hours used/day)
11. Energy used by each bulb per month? (For example- 60 watt bulb x 4 hours x number of bulbs = kWh)
12. How many LED bulbs has your college installed? Mention use (Hours used/day)
13. How many incandescent (tungsten) bulbs has your college installed? Mentions use (Hours used/day)
14. How many fans installed in the campus? Mention use (Hours used/day for how many days in a month)
15. Energy used by all fans per month? (kWh)
16. How many air conditioners are in use in the campus? Mention time of their usage (Hours used/day).
17. Energy used by all air conditioners per month? (kWh).
18. How many electrical equipment including weighing balance used? Mention use (Hours used/day)
19. Energy used by each such electrical equipment per month? (kWh).
20. How many computers were in use in the campus? Mention the energy use. (Hours used/day for how many days in a month)
21. How many photocopier machines are installed and in use at present in the campus? Mention use (Hours used/day for how many days in a month).
22. How many cooling apparatus present in the campus? Mention use (Hours used/day)
23. How many inverters your college installed? Mentions use (Hours used/day for how many days in a month)
24. Energy used by each inverter per month? (kWh)
25. How many electrical equipment used in different labs (methods that are not included in the above calculations) in the campus? Mentions use (Hours used/day for how many days in a month)
26. How many electrical equipments are available in all labs in the campus?
27. Energy used by all equipments together per month? (kWh)
28. Any other items that uses energy (Please write the energy used per month) Mention the application (Hours used/day for how many days in a month)
29. Does the camp us have any alternative energy sources/nonconventional energy sources? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.) Specify.
30. Are your computers and other equipment put on power-saving mode?
31. Does your machinery (AC, Computer, and weighing balance) run on standby modes? If yes, how many hours?
32. What are the energy conservation methods adapted by your college?
33. Is there any public awareness systems informing necessity of energy conservation in the campus?