

Government Pataleshwar College Masturi, Bilaspur (C.G.) 495550

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Green Audit Report 2019– 20



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AUDIT CERTIFICATE

This is to certify that the "Green audit report" for Government Pataleshwar College Masturi, Bilaspur (C.G.) has been conducted in December and January, 2020 to assess the green initiatives planning and efforts implemented in the college campus like green campus management, Plantation, post plantation management, waste management and Rain water harvesting.

The green audit is also aimed to assess the impact of green initiatives for maintenance of eco-friendly campus.

Place – Masturi

Date – 22.01.2020



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Acknowledgement

Green Audit Assessment Team thanks the Govt. Pataleswar College Masturi, Bilaspur C.G. for assigning this important work of Green Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks to our Principal – Dr. Manju Tripathi & Team of colleagues for giving us necessary inputs to carry out this very vital exercise of Green Audit. This Audit has been conducted by a committee constituted by Principal with following members: Prof. B.S. Raj, Prof. N. K. Relwani, Shri S.K. Vaidya Campus Administration. Data collected with the help of student volunteers, the basic data was compiled, by the Department of Zoology and Botany. The audit reveals a healthy environment in campuses.

We are also thankful to Dr. Kiran Thakur (IQAC Co-ordinator), Mrs. Kanti Anchal (NSS Programme Officer), Mrs. Neeta Jauhar(NCC Programme Officer), and other staff members who were actively involved while collecting the data and conducting field measurements.

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EXECUTIVE SUMMARY:

The rapid urbanization and economic development at local, over exploitation of ecological resources of regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development. The term “Green” means eco-friendly or not damaging the environment. This can acronymically is called as **“Global Readiness in Ensuring Ecological Neutrality” (GREEN)**.

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Green 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.

The purpose of the audit was to make sure that the practices followed in the campus are healthy and environment friendly. With this in mind, the specific objectives of the audit were to evaluate the degree to which the Departments are in compliance with the applicable regulations, policies and standards and to ensure that the development of the college aims at sustainable development and green campus.

A report on green audit has been prepared by department of Zoology Department of Govt. Pataleshwar college Masturi. This college was established in 1982 in fine tune with the motto of तमसो माँ ज्योतिर्गमय (Looking forward to darkness to lightness) and accredited with Grade ‘B’ by NAAC, Bengaluru. Total area of the college main campus 14 acres, of which 40 percent is covered by herbs, shrubs and trees, including valuable medicinal flora. The plants have been systematically identified by the green audit committee. There are more than 100 plant species were audited. The green audit report has been discussed with environmental expert’s suggestions to increase greenery in campus. Extra efforts have been taken by the college to create environment consciousness amongst students. One major step in this regard is the extensive plantation program organized by NSS, NCC, Environment committee, Existing gardens are also maintained by the Environment committee of this college and also NSS and NCC wing.

Plantation is encouraged by principal and faculties of all departments to increase greenery and reduce carbon emission effects. The college also looking forward to the recycling projects or solid waste management programs to improve waste minimization plan and initiative about energy and water conservation, plantation and also looking forward to alternative source of energy (Solar Plant).

It can make a tremendous impact on student health and learning college operational costs and the environment. The methodology used included physical inspection of the campus and observation and review of the relevant documentation were used to prepare green audit report of the college. Green auditing and implementation of suggestions plays a significant role to make an eco-friendly ambience.

1.	Name of Institution	Government Pataleshwar College Masturir, Bilaspur (C.G.)
2.	Geographical status	Lat N 21 ⁰ 9930 Long E 82 ⁰ 2764
3.	Address of the Institution	Kosamdih Road, Masturi, Bilaspur (C.G.)
4.	College Affiliated to	Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (C.G.)
5.	Name of Principal	Dr. Manju Tripathi
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INTRODUCTION:

The 'Green Audit' aims to analyse environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. To achieve the goal, the college organizes motivational and inspiring talks by experts, and conducted awareness programs. The Zoological club, Science club highlight the significance of environment and its protection.

Green auditing is a means of assessing environmental performance (Welford, 2002). It is a systematic, documented, periodic, and objective review by regulated entities of facility operations and practices related to meeting environmental requirements (EPA, 2003). It is a total strategic approach to the organization's activities (CBI, 1990).

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through Carbon Footprint reduction measures.

ABOUT THE COLLEGE:

As an oldest institution in Masturi region the Government Pataleshwar College, Masturi, Bilaspur is primarily known as Government College Masturi that was established in 1988. The UGC accorded it recognition under section 2 (f) & 12 (B) on 18th February, 1998 and 22nd June 1998 respectively. Earlier this institution was affiliated to Guru Ghasidas University, Bilaspur from 1988 to 2012, then Guru Ghasidas University, Bilaspur has been upgraded as Central University and presently the college is affiliated to Atal Bihari Vajpayee University, Bilaspur a newly established university of Chhattisgarh state.

The College is situated in 18 k.m. far of the Bilaspur city and has campus of 14 acres, which consist of class rooms, administrative buildings, playground, auditorium, well equipped library, computer lab and I. The College has N.S.S. units sanctioned by the university, N.C.C. units sanctioned by 7CG. B.N.C.C. Bilaspur, and Alos have Youth Red Cross Society which are doing tremendous job through organizing activities like blood donations, tree plantations, health check-up, personality development etc. are conducted by this unit. The N.S.S. unit of the college adopted village ITWA . The campus is also selected for the Unnat Bharat Abhiyan by the Government of India in the year 2018. Every year the College is organizing NSS camp for period of 7 days for taking up Awareness campaign, Sanitation, Tree Plantation, De-addiction, literacy, etc. with help of the villagers and concerned authorities. Cadet of N.C.C. can also join the camp organized by 7cg battalion, Bilaspur by every year.

The college campus is spreaded in 15 acar area. The details of the college campus is as under –

COLLEGE CAMPUS AREA:

Particulars	Name of building/ area	Built up/ Occupied area
Buildings	Administrative building	1532.91 sq meter

	RUSA Building, Seminar hall	1485 sq meter
	Old college Building	743.60 sq meter
	Girls Common room	70.23 sq meter
	Seminar hall -1	81.84 sq meter
Garden area	Garden located in front of sports (NCC)	58.50 sq meter
	Garden located in front of the administrative block	389.16 sq meter
Vehicle stand	Vehicle stands 1	126 sq meter
	Vehicle stands 2	240 sq meter
Total		4727.24 sq meter
Open play ground	Open area/ play ground	55975.61 sq meter
Total Campus area		60702.85 sq meter

OBJECTIVES OF GREEN AUDIT:

The general objective of green audit The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment and prepare report on biodiversity and other resources in college campus.

The main objectives of carrying out Green Audit are:

1. To introduce and aware students to real concerns of environment and its Sustainability.
2. To enable waste management through reduction of waste generation, solid-waste and water recycling
3. To prepare a checklist of flora and fauna diversity in and around the college campus.
4. Impart environmental education through systematic environmental management approach and Benchmarking for environmental protection
5. To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use of the campus.
6. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requiring high cost.
7. To bring out a status report on environmental compliance.
8. Measuring the impact of various organized programe and best practices on environmental factors.
9. Financial savings through a reduction in resource use .
- 10.To suggest measures to improve biodiversity within the college campus.

METHODOLOGY:

The purpose of the green audit of Masturi College is to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations.

The study covered the following areas to summarise the present status of environment management in the campus:

1. Water management
2. Waste management
3. Energy Conservation
4. E-waste management

GENERAL STEPS

The following steps were undertaken during auditing –

1. The data were collected by using facilities available in science departments, NSS volunteers, greenery auditing committee and energy audit committee
2. The utilization of natural resources was periodically evaluated by regular observation and also by using equipments and appropriate standard measuring techniques
3. Implementation of various suggestions recommended by the various committees.
4. The data were prepared by physical evidences
5. Improvement and management of existing system.

AUDIT FRAMEWORK AND DETAILED FINDINGS

The following audit framework is used for conducting Green Audit in 2020-21.

Objective	Observation	Audit observation
Energy Management	Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity	The college does not have any choice other than CSEB for electric supply. The college also has 1 ecofriendly generators for the supply of emergency electricity to save our ecosystem.

	Look in to the possibility of on-site micro-generation of renewable electricity.	The college is planning for introduction of SOLAR PANNELs.
	Give preference to the most energy efficient and using energy-saving light bulbs	The college is using LED lights as much as practicable
	A viability of Energy consumption measurement equipments	No the college has not any Energy consumption measurement equipments
Green campus	No use of fertilizers and pesticides in college campus mostly we are using of vermi compost produced on site .	Yes, the college has two large wormi composting tanks to decompose and recycled the biodegradable substances.
	Encourage the faculties and students to plant trees in the garden.	The college celebrates “Bana Mahotsab”, an annual tree plantation program in the campus where students and teachers plant trees in the campus
	Dispose the chemical waste generated from the laboratories in a scientific manner	Non toxic chemicals are practical curriculum. Most of the waste generated is water-soluble and ultimately disposed through normal sewage system in deep soil.
	Establish a Garden in the campus College already has a well maintained garden.	Establish a Garden in the campus College already has a well maintained garden.
Water Management	Hygienic water for drinking	There are two Water filter with RO (Aqua guard) in the college for the students.
	Repair sources of water leakage, such as dripping taps.	Regular checking and maintenance of pipelines are done to control water wastage.

	Water recycling System, such as rain water harvesting system	The college has only one centralized water harvesting system, established in RUSSA building.
Waste management	Compost, or cause to be composted, all organic waste, green waste and collected from gardens, offices..	The college has set up a vermi compost plant that ensures proper treatment of all organic wastes.
	Recycle or safely dispose of dry wastes computers and electrical appliances	All dry wastes (paper, metal, glass, other dry waste, e-waste, etc.)are separated in different bins in the college and resell to the local vendor
Carbon foot print	Ensure use of eco friendly transport option	About 80% of the students of the college use bicycle as the main mode of transport. The college also encourages transport by bicycle to students.
	Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.	Seminars and awareness programmes are conducted periodically on nature and natural resources.
Auditing of flora	Observation, Labeling and documentation of flora	Yes, College has a survey report of faunal diversity occurs in the vicinity of the college. This survey was conducted by the department of botany and Zoology. In this survey report the available plants were categorized into herbs, shrubs, trees, flowering plants and decorative plants. In this report has described the local name, botanical name,

		number and uses of the plants species occurs inside the campus of the college. Note – Table no. 01. Showing the faunal diversity of the college
	Labeling of plants	The larger plants were labeled with their local and botanical name. The name plates were prepared by the students of botany and Zoology department under the guidance of Head of the Botany department.
Auditing of fauna	Observation and documentation of flora and fauna	The department of zoology has observed and documented the animal diversity in the campus.
Women hygiene facility	Women hygiene equipment	Yes, College has sentry pad equipment for the female students.

The floral and faunal Diversity of Pataleshwar College campus has been studied and documented as below-

Table no. 01 Showing the floral diversity of the college

S. No.	Category	Common name	Botanical name	Number	Significance/ Uses
1.	Herbs	मोंगरा	<i>Jasminum sambac</i>	13	Flowering
		पत्थरचट्टा	<i>Bryophyllum pinnatum</i>	22	Medicinal
		तुलसी	<i>Ocimum tenuiflorum</i>	15	Medicinal

		नागफनी	<i>Crataegus</i>	05	Medicinal
		विशुकांती	<i>Clitoriya aternatea</i>	12	Medicinal
		सतावर	<i>Asparagus racemosus</i>	02	Medicinal
		बैजंती	<i>Barleria prionitis</i>	06	Flowering
		जंगली मुनगा	<i>Moringa Oleifera</i>	04	Medicinal
		चित्रक	<i>Plumbago zeylanica</i>	04	Medicinal
		जंगनी लहसुन	<i>Allium tuberosum</i>	02	Medicinal
		हल्दी	<i>Curcuma domestica or longa</i>	02	Medicinal
		लिली	<i>Plumeria Alba</i>	01	Medicinal
		जंगली धनिया	<i>Ergyngium foetidum</i>	02	Medicinal
		राम तुलसी	<i>Ocimum gratissimum</i>	10	Medicinal
		घृत कुमारी	<i>Aloe vera</i>	15	Medicinal
		मण्डुपर्णी	<i>Centella astitica</i>	02	Medicinal
		कचनार	<i>Baihidia forfi</i>	01	Medicinal
2.	Shrubs	नीबू	<i>Citrullus limonus</i>	04	Medicinal
		मदार	<i>Hibiscus rosa sinensis</i>	04	Glowering
		कनेर	<i>Nerium oleander</i>	24	Flowering
		गेंदा	<i>Tagetes</i>	336	Flowering
		अडूसा	<i>Adhatoda vasica</i>	05	Medicinal
		धतूरा	<i>Datura stramonium</i>	12	Medicinal
		जीरा	<i>Cuminum cyminum</i>	12	Medicinal
		चौदनी	<i>Tabernae Montana divaricata</i>	03	Flowering
		आंक	<i>Calotropis gigantean</i>	10	Medicinal

		सर्पगंधा	<i>Rauwolfia serpentina</i>	14	Medicinal
		करौंदा	<i>Carissa carandas</i>	02	Fruit/ Medicinal
		साइकस	<i>Cycas rotundus</i>	02	Decorative
		रातरानी	<i>Cestrum nocturnum</i>	1	Flowering
		गुलाब	<i>Rosa indica</i>	14	Flowering
		नागफनी	<i>Opuntia ficcus</i>	11	Flowering
3.	Decorative	कागज फूल	<i>Bougainvillea</i>	09	Flowering
		सदा सुहागन	<i>Catharanthus roseus</i>	42	Flowering
		विद्यामती	<i>Thuja occidentalis</i>	03	Flowering
		मनीप्लांट	<i>Money plant</i>	10	Decorative
		अमरबेल	<i>Cuscuta reflexa</i>	12	Decorative
4.	Tree	आम	<i>Mangifera indica</i>	16	Fruit
		ऑवला	<i>Phyllanthus emblica</i>	22	Fruit
		बादाम	<i>Pranus dulcis</i>	04	Fruit
		रामफल	<i>Anona raticulata</i>	02	Fruit
		अमरुद	<i>Psidiumguajaw</i>	05	Fruit
		बेर	<i>Zizyphus lionba</i>	07	Fruit
		अनार	<i>Punica granatum</i>	03	Fruit
		डूमर	<i>Ficus racemosa</i>	01	Fruit
		ताड़	<i>Borassus flabellifer</i>	02	Fruit
		जामुन	<i>Syzygium cumini</i>	05	Fruit
		खजूर	<i>Phoenix dactylifera</i>	01	Fruit
		नीम	<i>Azadirachta indica</i>	14	Medicinal
		बरगद	<i>Ficus benghalensis</i>	04	Medicinal

		पीपल	<i>Ficus religiosa</i>	03	Medicinal
		चम्पा	<i>Plymariya aabtua</i>	05	Medicinal
		कदम	<i>Neolamarckia cadamba</i>	08	Medicinal/ decorative
		सागौन	<i>Tectona grandis</i>	12	Furniture
		बबुल	<i>Vachellia nitotica</i>	62	Furniture
		अशोक	<i>Saraca indicus</i>	12	Decorative
		नीलगिरी	<i>edcalyptus</i>	05	Medicinal

Table no. 02. Showing the faunal diversity of the college

S. No.	Phylum	Common Name	Zoological Name
1.	Annelida	Earth worm	<i>Pheretima posthuma</i>
		Neries	<i>Neris mania</i>
		Leech	<i>Hirudo medicinalis</i>
2.	Arthropods	Ant	<i>Formica rufa</i>
		Red ant	<i>Atta geminata</i>
		Cockroach	<i>Periplanata americana</i>
		Book Worm	<i>Lepisma saccharina</i>
		Grasshopper	<i>Melanopus femurrubrum</i>
		Centipede	<i>Scolopendra spp.</i>
		Praying Mantis	<i>Mantis religiosa</i>
		Termite	Dry wood termites
		Butterfly	<i>Danaus plexippus</i>
			<i>Morpho fabricia</i>
		Makkhi	<i>Musca domestica</i>
		Mosquitoes	<i>Culex and Anopheles</i>
		Recluse spider	<i>Loxos celes spp.</i>
		Striped back scorpion	<i>Centruroides vittatus</i>
		Odonatan Species (Drogonfly)	<i>Orthetrumpruinsum,</i> <i>Brachythemiscontaminate,</i> <i>Diplocodes</i> <i>trivilis,</i> <i>Neurithemis intermedia,</i> <i>Acisoma</i> <i>panorpoides,</i> <i>Pantalaflavescens</i>
		Paper Wasps	<i>Polistes spp.</i>
		Blister Beetles	<i>Spicaula spp.</i>
		Fire fly	<i>Lamrtidae</i>
		Drogonfly	<i>Anisoptera</i>
		Yellow jacket insect	<i>Vespula squamosa</i>
Cicada killer	<i>Sphecius speciosus</i>		
Mud Daubers	<i>Chalybion sceliphron</i>		
Locust	<i>Schistocerca gregaria</i>		
Honey Bee	<i>Apis mellifeera and Apis indica</i>		
Crab	<i>Carcinus maenas</i>		
3.	Mollusca	Pila	<i>Pila globosa</i>
		Unio	<i>Unio cariel</i>
4.	Amphibians	Commom Frog	<i>Rana tigrina</i>
		Common Tree Frog	<i>Polypedates maculates and P. racophorus</i>
		Indian bull Frog	<i>Hoplobatrachus tigerinus</i>
		Toad	<i>Buffo melanostictus</i>
		Green puddle frog	<i>Occidozyga lima</i>

		Common Toad	<i>Bufo bufo</i>
5.	Reptiles	Lizards - Common wall lizard	<i>Podarcis muralis</i>
		Monitor Lizard - Goh	<i>Varanus bengalensis</i>
		Brooks Gecko	<i>Hemidactylus brook</i>
		Banded krait, Ahiraj	<i>Bungarus fasciatus</i>
		Binocelate Cobra Nag Sap	<i>Naja naja</i>
		Water Snake	<i>Xenochrophis piscator</i>
		Indian Rock Python Ajgar Sap	<i>Python Molurus</i>
		Snake - Common Krait	<i>Bungarus caeruleus</i>
		Common Rat Snake, Dhamana	<i>Ptyas mucosus</i>
6.	Aves	Pigeon	<i>Columba livia</i>
		House Sparrow	<i>Passer domestica</i>
		Koel	<i>Eudynamys scolopaceus</i>
		Myna	<i>Acridotheres tristis</i>
		Eagle	<i>Aquila hastata</i>
		Fowl	<i>Gallus gallus</i>
		Crow	<i>Corvus splendens</i>
		Parrot	<i>Pistaccula krameri</i>
7.	Mammal	Rat	<i>Ratus ratus</i>
		Bat	<i>Elidolon helvum</i>
		Mole	<i>Condylura cristata</i>
		Gilhari	<i>Funambulus pennantii</i>
		Newla	<i>Herpestes edwardsi</i>
		Cow	<i>Bos taurus</i>
		Dog	<i>Canis lupus familiaris</i>
		Goat	<i>Capra aegagrus hircus</i>
		Tabby cat	<i>Felis catus</i>

Recommendations/ Suggestions

1. Implement a mechanism to dispose solid waste in a scientific manner.
2. In campus make some small WATER BODY and recycle of water system is necessary.
3. It is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity
4. Gardens should be watered by using drip/sprinkler irrigation system to minimise water use.
5. In campus premises electricity should be shut down from main building supply after occupancy time, to prevent power loss due to eddy current
6. Installation of LED lamps instead of CFL and replacing the old tube lights with the new LED tubes.
7. Implement a scientific mechanism to dispose chemical waste from laboratories.
8. Celebrate every year 5th June as 'Environment Day' and plant trees on this day to make the campus more Green.

9. Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
10. Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Assign scientific names to the trees.

CONCLUSION:

With smart initiatives like our Think Green Campus Model, Waste Management is helping colleges achieve a higher level of environmental performance. There is significant environmental research both by faculty and students. The environmental awareness initiatives are substantial. The installation of solar panels and rain water harvesting system are noteworthy. Pataleshwar College adopts environment friendly practices and takes necessary actions such as – energy conservation, waste recycling, carbon neutral etc.. This may lead to the prosperous future in context of Green Campus & thus sustainable environment and community development. As part of green audit of campus, we carried out the environmental monitoring of campus including Illumination and Ventilation of the class room. It was observed that Illumination and Ventilation is adequate considering natural light.

Gallery



Fig. 1 Government Pataleshwar College, Masturi (Administrative Block)



Mentor-Mentee Activities Towards Greenery Development





Garden Development in front of RUSA Building through Mentor-Mentee Activites (Session 2019-20)



Tree plantation by NSS Unit of the College





Fig. 2-5 Plantation in front of the College building.



Fig. 6 Remove unwanted grass within carpet grass by Zoological Club



Fig. 7-8 Gazar Ghas unmulan in campus before and after by Zoological Club



Fig. 9 -10Vermicomposting tanks located beside of sport department



Fig. 11Green campus of our College



Fig. 12 Generator for Electricity



Fig. 13 Water purifier pump



**Fig. 14 Water harvesting system
Showing the faunal diversity of the college**



Leech (*Hirudomedicinalis*)



Earthworm (*Pheritima posthuma*)



House fly (*Musca domestica*)



Cockroach (*Periplaneta americana*)



Crab (*Partunuspelagicus*)



Ant (*Formica rufa*)



House crickets (*Acheta domestica*)



Praying mantis (*Mantis religiosa*)



Butter fly (*Morphofabricus*)



Scorpion (*Pandinus imperator*)



Pila (*Pilaglobosa*)



Unio (*Unio cariel*)



Frog (*OccidozygoLima*)



Lizard (*Hemidactylus frenatus*)



Parrot (*Psittaculakrameri*)



Hen (*Gallus gallusdomesticus*)



Goat (*Capra aegagrus hircus*)



Monkey (*Semnopithecus posthuma*)



Cat (*Feliscatus*)