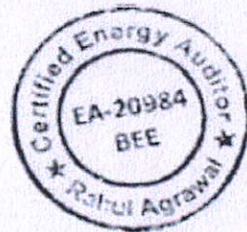


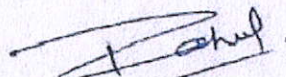
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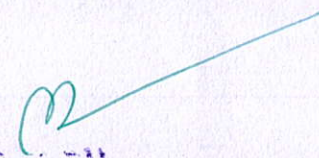
Certificate

This is to certify that a “Green Audit Audit”, for **CHOUKSEY ENGINEERING COLLEGE, BILASPUR** has been conducted in April-2023 to assess the green initiatives planning and efforts implemented in the college campus like Green Campus Management, Plantations, Waste Management and Rainwater Harvesting, Conservation of Energy. This audit is also aimed to assess the impact of green initiatives in developing an eco-friendly campus.

Place : Durg (C.G.)




Mr. Rahul Agrawal
Certified Energy Auditor
(EA-20984)


PRINCIPAL COLLEGE
CHOUKSEY ENGINEERING COLLEGE
LAKHADAM, BILASPUR, C.G.



2023

GREEN AUDIT REPORT Chouksey Engineering College, Bilaspur (C.G.)



April 2023

Prepared By:

Greenserve Energy Management Solutions

Vijay Nagar,

Durg (C.G.) - 491001


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**CHOUKSEY ENGINEERING COLLEGE
LAL KHADAN, BILASPUR (C.G.)**

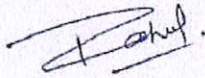
Acknowledgement

We are thankful to the Management and the Principal of the Chouksey Engineering College, Bilaspur for entrusting processes of Green auditing with us. We thank all the participants of the auditing team especially students, faculty and non-teaching staff who took pain along with us to gather data through survey. We also thank the office staff who helped us during the document verification.

Audit Team Members

1	Rahul Agrawal	Certified Energy Auditor
2	Jayendra Mohabe	Senior Energy Engineer
3	Bhumesh Jagnit	Energy Engineer

For Greenserve Energy Management Solutions,

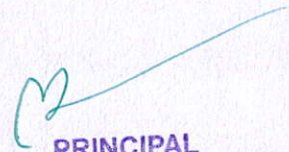


Greenserve Energy
Management Solutions
Durg (C.G.)

Rahul Agrawal

Certified Energy Auditor (EA-20984)

Bureau of Energy Efficiency (MoP)



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1. Executive Summary

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development.

Chouksey Engineering College, Bilaspur is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reverse the trends. Being a premier institution of higher learning, the college has initiated 'The Green Campus' program that actively promote the various projects for the environment protection and sustainability.

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons, data analysis, measurements and recommendations. It works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity. With this in mind, the specific objectives of the audit are to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student's health and learning College operational costs and the environment. The criteria, methods and recommendations used in the audit are based on the identified risks


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2. Introduction

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the College campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth by carrying out Green Audit.

Green audit is assigned to the criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India and it declares the institutions as Grade A, B or C according to the scores assigned during the accreditation.

2.1 About Chouksey Engineering College, Bilaspur

Chouksey Engineering College, Bilaspur was established under the aegis of the H. K. Kalchuri Educational Trust, Bhopal, known as LNCT GROUP, started with the aim of providing educational opportunities to the deserving and under-privileged section of the society. It was established in the year 2001 with the motto of 'Working towards being the Best'

It has achieved commendable progress in attracting and retaining highly qualified and experienced faculty, developing high profile academic infrastructure including various well established laboratories, a team of well trained teachers who have created conducive atmosphere for learning and research.

With an aim to remain quality conscious, efficient and responsive to current rapid changing economic and technological developments, Chouksey Engineering College Bilaspur has taken up the challenge not only to give technical and corporate training to the students but also to make them self confident and better human being with leadership qualities.

Presently, it has expanded its foray in the educational sphere by establishing MBA, MTECH, PHARMACY, HOMEOPATHY, SCIENCE AND COMMERCE together forming CHOUKSEY GROUP OF COLLEGES to achieve the vision:- "Education is a movement from Darkness to Light".

Vision of Institute

To be a leading technical institute of National and International repute, providing quality education and to produce technically competent, ethical and socially responsible professionals.


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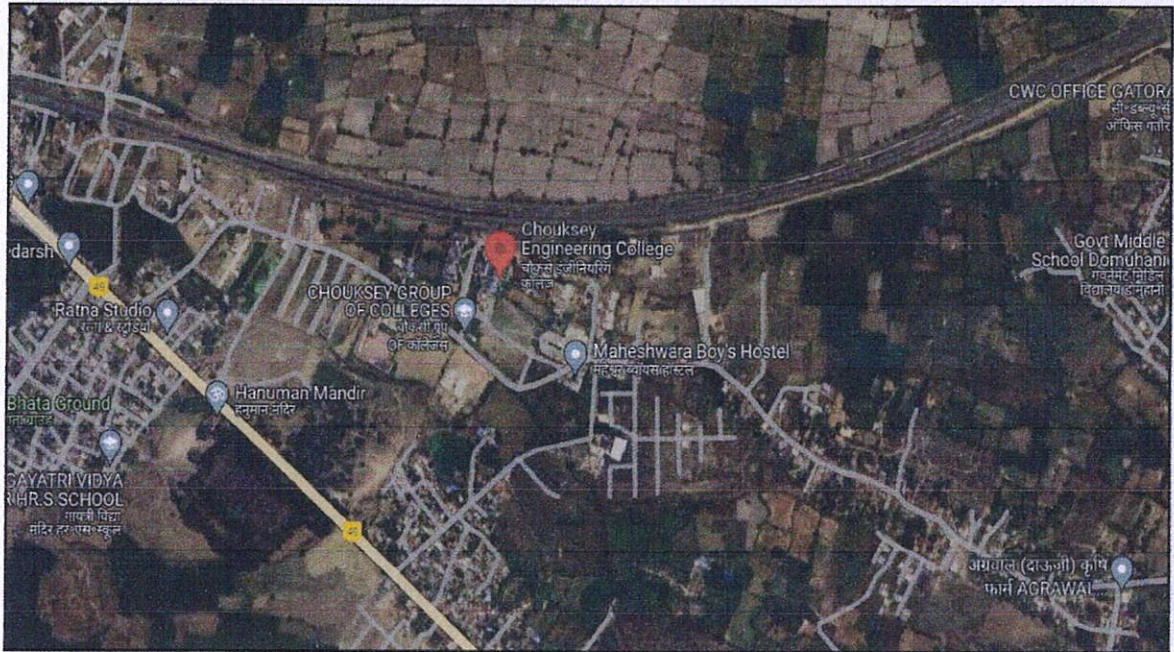
Mission of Institute

- To provide students with the best possible inputs through faculty,infrastructural facilities and opportunities by the best available means.
- To produce best engineers and managers with the sense of duty to humanity and a commitment to their society and country.
- Producing technically skilled manpower to meet the unique needs of industries that forge new paths, develop new products and come up with innovative solutions.
- To prepare students to be eligible for placement in PSUs/Government Sectors/MNCs/Private Sectors.


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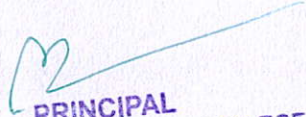
Location:

Chouksey Engineering College is located at, NH-49, Masturi - Jairamnagar Rd, Lalkhadan, Mehmand, Chhattisgarh 495004 and the GPS Coordinates of the college are 22°02'46.3"N 82°12'27.2"E.



Total Campus Area & College Building Spread Area

Campus area	7.5 Acres (326700 Sqft)
Total Campus Building Area	76551 Sqft.


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3.0 Pre-Audit Stage

A pre-audit meeting provided an opportunity to reinforce the scope and objectives of the audit and discussions were held on the practicalities associated with the audit. This meeting is an important prerequisite for the green audit because it is the first opportunity to meet the auditee and deal with any concerns. The meeting was an opportunity to gather information that the audit team can study before arriving on the site. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. In college pre-audit meeting was conducted successfully and necessary documents were collected directly from the college before the initiation of the audit processes. Actual planning of audit processes was discussed in the pre-audit meeting. Audit team was also selected in this meeting with the help of staff and the college management. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. The audit team worked together, under the leadership of the lead auditor, to ensure completion within the brief and scope of the audit.

Management's Commitment

The Management of the college has shown the commitment towards the green auditing during the pre-audit meeting. They were ready to encourage all green activities. It was decided to promote all activities that are environment friendly such as awareness programs on the environment, campus farming, planting more trees on the campus etc., after the green auditing. The management of the College was willing to formulate policies based on green auditing report.

Scope and Goals of Green Auditing

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. Green Audit is the most efficient and ecological way to manage environmental problems. It is a kind of professional care which is the responsibility of each individual who are the part of Economical, financial, social, environmental factor. It is necessary to conduct green audit in college campus because students become aware of the green audit, its advantages to save the planet and they become good citizen of our country. Thus, Green audit becomes necessary at the college level. A very simple indigenized system has been devised to monitor the environmental performance of Chouksey Engineering College, Bilaspur. It comes with a series of questions to be answered on a regular basis. This innovative scheme is user friendly and totally voluntary. The aim of this is to help the institution to set environmental examples for the community, and to educate the young learners.



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Benefits of the Green Auditing

- More efficient resource management
- To provide basis for improved sustainability
- To create a green campus
- To enable waste management through reduction of waste generation, solid- waste and water recycling
- To create plastic free campus and evolve health consciousness among the stakeholders
- Recognize the cost saving methods through waste minimizing and managing Point out the prevailing and forthcoming complications
- Authenticate conformity with the implemented laws
- Empower the organizations to frame a better environmental performance
- Enhance the alertness for environmental guidelines and duties
- Impart environmental education through systematic environmental management approach and Improving environmental standards
- Benchmarking for environmental protection initiatives
- Financial savings through a reduction in resource use
- Development of ownership, personal and social responsibility for the College and its environment
- Enhancement of College profile
- Developing an environmental ethic and value systems in youngsters.
- Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the College.



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Target Areas of Green Auditing

Green audit forms part of a resource management process. Although they are individual events, the real value of green audits is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time. Eco-campus concept mainly focuses on the efficient use of energy and water; minimize waste generation or pollution and also economic efficiency.

All these indicators are assessed in process of "Green Auditing of educational institute". Eco-campus focuses on the reduction of contribution to emissions, procure a cost effective and secure supply of energy, encourage and enhance energy use conservation, promotes personal action, reduce the institute's energy and water consumption, reduce wastes to landfill, and integrate environmental considerations into all contracts and services considered to have significant environmental impacts. Target areas included in this green auditing are water, energy, waste, green campus and carbon footprint.

Auditing for Water Management

Water is a natural resource; all living matters depend on water. While freely available in many natural environments, in human settlements *potable (drinkable) water is less readily available*. We need to use water wisely to ensure that drinkable water is available for all, now and in the future. A small drip from a leaky tap can waste more than 180 liters of water to a day; that is a lot of water to waste enough to flush the toilet eight times! Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices. Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water. *It is therefore essential that any environmentally responsible institution examine its water use practices.*

Auditing for Energy Management

Energy cannot be seen, but we know it is there because we can see its effects in the forms of heat, light and power. This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. An old incandescent bulb uses approximately 60W to 100W while an energy efficient light emitting diode (LED) uses only less than 10 W. Energy auditing deals with the conservation and methods to reduce its consumption related to environmental degradation. It is therefore essential that any environmentally responsible institution examine its energy use practices.



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Auditing for Waste Management

Pollution from waste is aesthetically displeasing and results in large amounts of litter in our communities which can cause health problems. Plastic bags and discarded ropes and strings can be very dangerous to birds and other animals.

This indicator addresses waste production and disposal, plastic waste, paper waste, food waste, and recycling. Solid waste can be divided into two categories: general waste and hazardous waste. General wastes include what is usually thrown away in homes and schools such as garbage, paper, tins and glass bottles. Hazardous waste is waste that is likely to be a threat to health or the environment like cleaning chemicals and petrol. Unscientific landfills may contain harmful contaminants that leach into soil and water supplies, and produce greenhouse gases contributing to global climate change. Furthermore, solid waste often includes wasted material resources that could otherwise be channelled into better service through recycling, repair, and reuse. Thus, the minimization of solid waste is essential to a sustainable College. The auditor diagnoses the prevailing waste disposal policies and suggests the best way to combat the problems. It is therefore essential that any environmentally responsible institution examine its waste processing practices.

Auditing for Green Campus Management

Unfortunately, biodiversity is facing serious threats from habitat loss, pollution, over consumption and invasive species. Species are disappearing at an alarming rate and each loss affects nature's delicate balance and our quality of life. Without this variability in the living world, ecological systems and functions would break down, with detrimental consequences for all forms of life, including human beings. Newly planted and existing trees decrease the amount of carbon dioxide in the atmosphere. Trees play an important ecological role within the urban environment, as well as support improved public health and provide aesthetic benefits to cities. In one year, a single mature tree will absorb up to 48 pounds of carbon dioxide from the atmosphere, and release it as oxygen. The amount of oxygen that a single tree produces is enough to provide one day's supply of oxygen for people. So, while you are busy studying and working on earning those good grades, all the trees on campus are also working hard to make the air cleaner for us. Trees on our campus impact our mental health as well; studies have shown that trees greatly reduce stress, which a huge deal is considering many students are under some amount of stress.

Auditing for Carbon Footprint

Commutation of stakeholders has an impact on the environment through the emission of greenhouse gases into the atmosphere consequent to burning of fossil fuels (such as petrol). The most common greenhouse gases are carbon dioxide, water vapour, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent

greenhouse gas, comprising 402 ppm of the Earth's atmosphere. The release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon emissions. An important aspect of doing an audit is to be able to measure your impact so that we can determine better ways to manage the impact. In addition to the water, waste, energy and biodiversity audits we can also determine what our carbon footprint is, based on the amount of carbon emissions created. One aspect is to consider the distance and method travelled between home and College every day. It undertakes the measure of bulk of carbon dioxide equivalents exhaled by the organization through which the carbon accounting is done. It is necessary to know how much the organization is contributing towards sustainable development. It is therefore essential that any environmentally responsible institution examines its carbon footprint.

Methodology of Green Auditing

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising of:

1. Data Collection – In preliminary data collection phase, exhaustive data collection was performed using different tools such as observation, survey communicating with responsible persons and measurements.

Following steps were taken for data collection:

- The team went to each department, centres, Library, canteen etc.
- Data about the general information was collected by observation and interview.
- The power consumption of appliances was recorded by taking an average value in some cases.

2. Data Analysis - Detailed analysis of data collected include: calculation of energy consumption, analysis of latest electricity bill of the campus, understanding the tariff plan provided by the Chhattisgarh State Electricity Board (CSEB). Data related to water usages were also analysed using appropriate methodology.

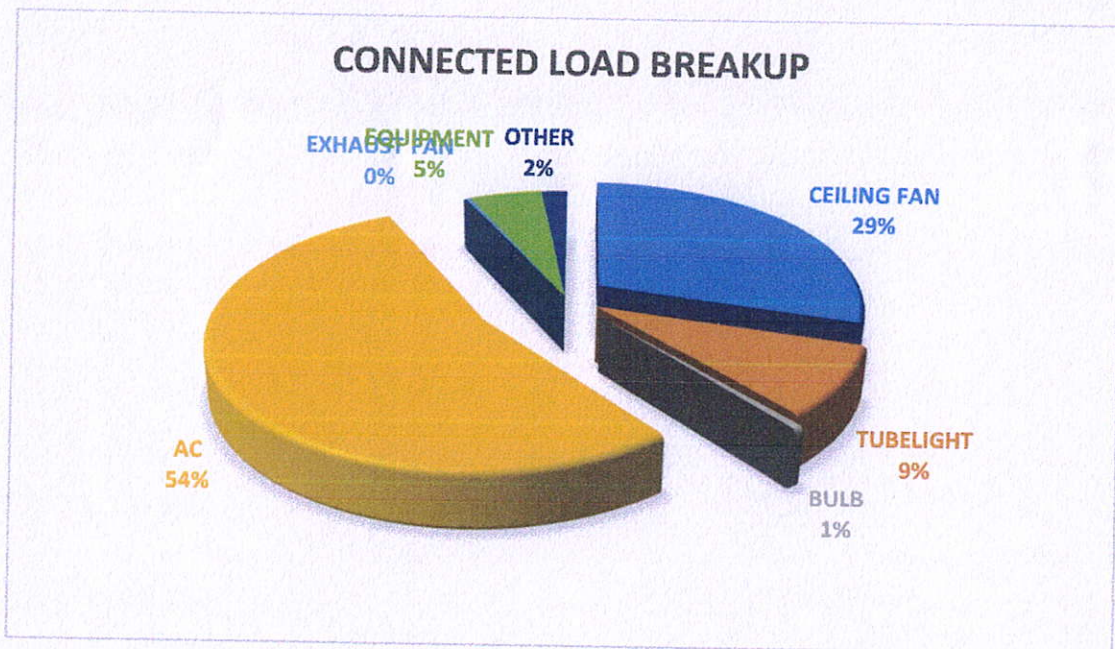
3. Recommendation – On the basis of results of data analysis and observations, some steps for reducing power and water Consumption were recommended. Proper treatments for waste were also suggested. Use of fossil fuels have to be reduced for the sake of community health. The above target areas particular to the College was evaluated through questionnaire circulated among the students for data collection. Five categories of questionnaires were distributed.

4.0 Post-Audit Stage

4.1 Energy Usage:

DETAILS OF ENERGY CONSUMPTION:

Sr.No.	Type of Fitting	Qty.	Watts	Total KW
1	CEILING FAN	590	60	35.4
2	TUBELIGHT	550	20	11.0
3	BULB	70	9	0.6
4	AC	43	1500	64.5
5	EXHAUST FAN	9	45	0.4
6	EQUIPMENT		6220	6.2
7	OTHER		2190	2.2
Total Load				120.3




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4.2 Water Usage:**Water Storage Tank Capacity in Litre**

S. No.	Location	No. of Tank	Tank Capacity (Ltr.)	Storage Capacity (Ltr.)	Total Storage (Ltr.)
INSTITUTE BUILDING					
1	Main Building	6	1000	1000	6000
2	EMEC Building	5	1000	1000	5000
3	Boys Hostel	6	1000	1000	6000

Water Supply to Institute in Litre/Day

S. No.	Source of Water	kW Rating	Location	Under Control	Rated Flow (LPM)	Pump Running Minute/Day	Supply Ltr/Day
1	Submersible Pump	5 HP	Behind Mechanical Building		100	90	9000
2	Submersible Pump	3 HP	Near Temple		80	30	2400
3	Submersible Pump	3 HP	Hostel		80	180	14400
	Total Water Supply	11 HP					25800

Existing water management methods installed in the campus

SI No.	Source of ground recharger
1	Rain water harvesting

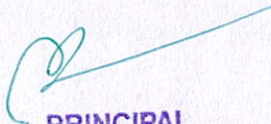
4.3 Waste measure and its disposal

MONTHLY PAPER DETAILS:

S. No.	Details of Paper		New Paper		Waste Paper	
	Paper	Unit	New Paper	News Paper	Waste Paper	News & Other Paper
1	Paper Packet (A4 Size)	Rim	473 Rim	3368 No.	Practical Copy & Other	916.03 No.
2	Weight Per Packet (Kg)	Kg/Packet	2.18 Kg per rim	65.50 gm		65.50 Gm
Total Weight		Kg	1031.14	220.60	160	60

Existing waste management methods practiced

- Cleaning the campus on daily basis.
- Segregation of waste into degradable and non-degradable by the cleaning staff.
- Waste bin's in placed in corridors, office and staff rooms.
- E-waste and plastic waste disposal at municipal collection center.
- Campaigns for reduce, reuse and recycle.
- Special arrangement for exist of waste water from chemical lab.


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4.4 Greenery in Campus

- Area of Campus - 7.5 Acres (326700 Sqft)
- Total Campus Building Area - 76551 Sqft.
- Ratio of Open Space to total area - 0.766 : 1.000
- Total area in campus covered with forest vegetation - 89040 Sqft
- Total area on campus covered in planted vegetation - 121109 Sqft
- Total area on campus for water absorption beside forest and planted vegetation - 11010 Sqft


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Existing trees details in the campus

S. No.	Local Name	Botanical Name	Number of Plants
1	आम	Mangifera indica	12
2	जामुन	Syzygium cumini	05
3	अमरूद	Psidium	10
4	नीम	Azadirachta indica	10
5	अशोक	Saraca asoca	37
6	अमलतास	Cassia fistula	10
7	सागौन	Tectona grandis	32
8	वाटर पाम	Arecaceae	92
9	पासटर पाम		35
10	गुलमोहर	Delonix regia	01
11	गंगा ईमली	Pithecellobium dulce	01
12	सीताफल	Annona squamosa	06
13	कटहल	Artocarpus heterophyllus	03
14	लीची	Litchi chinensis	01
15	कोहवा	Terminalia Arjuna	01
16	डूमर	Ficus glomerata	01
17	नारियल	Coconut	01
18	बादाम	Prunus dulcis	06
19	महुआ	Madhuca longifolia	02
20	छोटा नीलांगरी	Eucalyptus	10
21	सिल्वर	Leucadendron argenteum	02
22	अटकपारी		01
23	बेल	Aegle marmelos	02
24	शीशम	Dalbergia sissoo	05
25	सेमहर	Asparagus Racemosus	01
26	कदम	Neolamarckia cadamba	01
27	आँवला	Phyllanthus emblica	03
	कुल		291


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5.0 Conclusion and Recommendations

Green Audit is the most efficient way to identify the strength and weakness of environmental sustainable practices and to find a way to solve problem. Green Audit is one kind of professional approach towards a responsible way in utilizing economic, financial, social and environmental resources. Green audits can "add value" to the management approaches being taken by the College and is a way of identifying, evaluating and managing environmental risks (known and unknown). There is scope for further improvement, particularly in relation to waste, energy and water management. The College in recent years consider the environmental impacts of most of its actions and makes a concerted effort to act in an environmentally responsible manner. Even though the College does perform fairly well, the recommendations in this report highlight many ways in which the College can work to improve its actions and become a more sustainable institution.

Major Audit Observations

- i) Use of notice boards and signs are inadequate to reduce over exploitation of natural resources.
- ii) Programs on green initiatives have to be increased. Campus is declared plastic free, stringent actions should be taken to maintain this.
- iii) Existing Rain water harvesting systems, solar power generation, environmental education programs have to be strengthened.
- iv) Display boards against the misuse of water use are lacking.
- v) Display boards for awareness in relation to energy conservation is found inadequate.
- vi) There are fans of older generation and non-energy efficient which can be phase out by replacing with new energy efficient fans.
- vii) Solid waste management systems established are insufficient.
- viii) Waste bins in the class rooms, veranda, canteen and campus are inadequate.
- ix) Regular planting of trees in the campus Can be increased.
- x) Display boards to all plants & trees identified, Should be increased.
- xi) There is only very few fruit trees in the College to attract birds.
- xii) College has not yet taken any initiative for carbon accounting.


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Recommendations:

Water

- i. Remove damaged taps and install sensitive taps is possible.
- ii. Awareness programs on water conservation to be conducted.
- iii. Install display boards to control over exploitation of water.

Environment

- i. Arrange training programmes on environmental management system and nature conservation.

Energy

- i. Establish a purchase policy that is energy saving and eco-friendly.
- ii. Replace incandescent and CFL lamps with LED lights.
- iii. Conduct seminars, workshops and exhibitions on environmental education.
- iv. Establish water, energy and waste management systems.
- v. Increase the number of display boards on environmental awareness such as – save water, save electricity, no wastage of food/water, no smoking, switch off light and fan after use, plastic free campus etc.
- vi. Replace old fans with energy efficient fans.
- vii) Replace Window AC with Split AC

Waste

- i. Conduct exhibition of recyclable waste products.
- ii. Conduct more seminars and group discussions on environmental education.
- iii. Remove damaged taps and install sensitive taps is possible.
- iv. Practice of waste segregation to be initiated.
- v. Avoid plastic/thermocool plates and cups in the College level or department level functions.
- vi. Establish an E-waste collection center in campus.



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Green Campus

- i. All trees in the campus should be named scientifically.
- ii. Create more space for planting.
- iii. Grow potted plants at both verandah and class rooms.
- iv. Create automatic drip irrigation system during summer holidays.
- v. Not just celebrating environment day but making it a daily habit.
- vi. Beautify the College building with more indoor plants.
- vii. Conducting competitions among departments for making students more interested in making the campus green.

Carbon footprint

- i. Establish a system of car pooling among the staff to reduce the number of four wheelers coming to the College.
- ii. Encourage students and staff to use cycles.

Commitments after Green and Environment Auditing

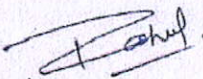
In the light of green and environment audit the college should, adopt some additions in the vision and mission statements promoting compliance with environmental laws and regulations for sustainable existence of the college.


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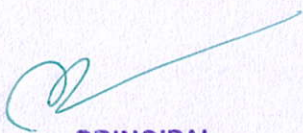
CERTIFICATION

This Part shall indicate certification by Certified Energy Auditor stating that:

- I. The data collection has been carried out diligently and truthfully.
- II. All data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorized and no tampering of such device has occurred.
- III. All reasonable professional skill, care and diligence had been taken in preparing the Green Audit Report and the contents thereof are a true representation of the facts.
- IV. Adequate training provided to personnel involved in daily operation after implementation of recommendation.


Signature: Greenserve Energy
Management Solutions
Durg (C.G.)

Name of the Certified Energy Auditor: Mr. Rahul Agrawal
Certification Detail: EA-20984


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