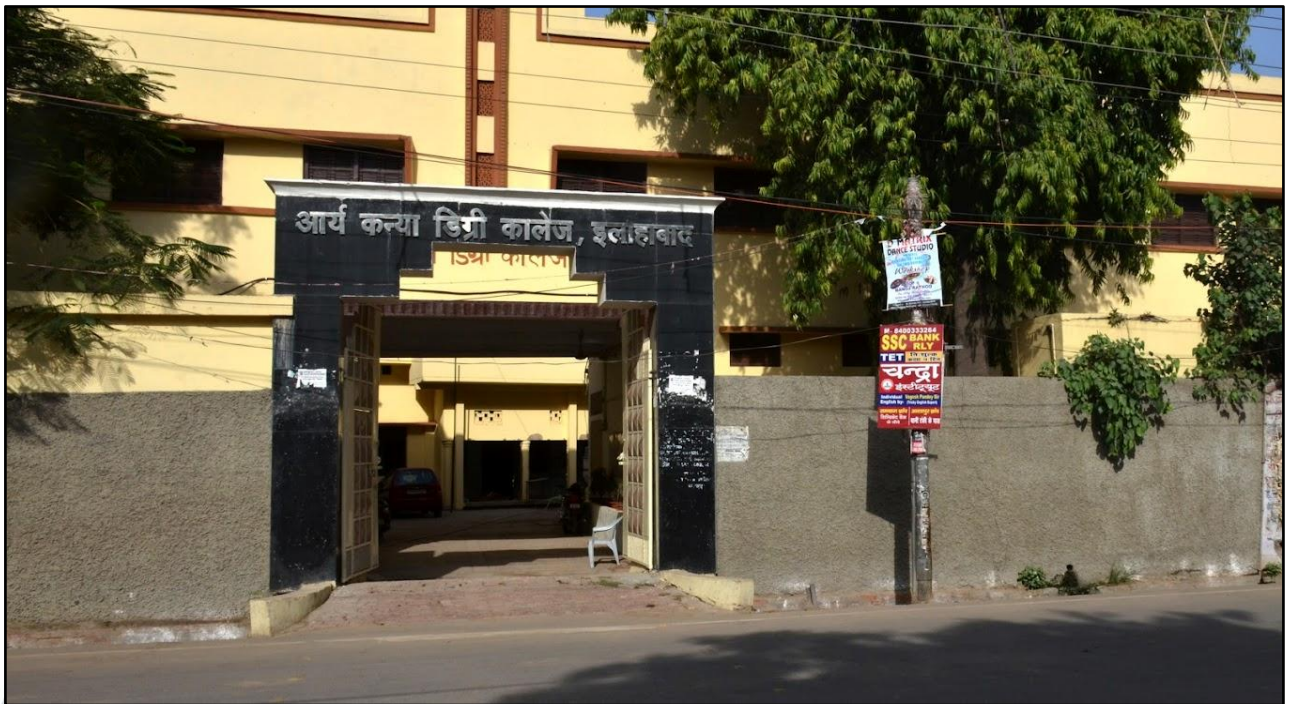




YEAR-2024

GREEN AUDIT REPORT

Arya Kanya Degree College, Prayagraj (U.P.)



December 2024

Prepared By:

**Greenserve Energy Management
Solutions**

Vijay Nagar, Durg (C.G.) - 491001



Green Audit Report of Arya Kanya Degree College, Prayagraj (U.P.)

College Address:
Arya Kanya Degree College
Address: 886, Mutthiganj, Prayagraj, Uttar Pradesh, India



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Acknowledgement

We are thankful to the Principal and Administration of Arya Kanya Degree College, Prayagraj, for their cooperation in conducting the Green Audit. We also extend our gratitude to IQAC coordinators, IQAC members, faculty members, students, and staff who actively participated in the audit process, dedicating their time and effort to ensure the completion of this assessment. Their commitment to sustainability and green practices has been invaluable in making this audit a success.

Audit Team Members

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



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 to sustainable development.

Arya Kanya Degree College, Prayagraj 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 promotes 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 facts 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.



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 Arya Kanya Degree College, Prayagraj

Arya Kanya Degree College, is a prestigious College for women. The College was founded in 1975, the international year of women and is based on the noble principles of Swami Dayanand Saraswati, founder of Arya Samaj. It is a Constituent College of the College of Allahabad which achieved the status of Central College on 14 July, 2005. The College is located in Muthiganj, a thickly populated area of the city.

The goals and objectives of the College are focussed towards proper education of women. Our endeavour has been to promote independent thinking among young girls so that they may not only make responsible citizens that contribute to the growth of the national economy but play the role of an anchor in their own families.

The College takes pride in having rendered educational services to women in some of the most thickly populated areas of the city in which some of the poorest people reside and has produced the first female graduate from many a family. The college offers graduate degrees in Arts, Commerce and Postgraduate degree in subjects like English, Hindi, Sanskrit, Economics, Political Science, Philosophy, Education, Sociology, Ancient History, Medieval History, Music – Vocal, Instrumental, Fine Arts and Geography. B.A.LLB has also been started from the session 2024-25 and the syllabi is set by the College. Doctoral Programme is offered in Political science, Education, Hindi, English, Sociology and Music Vocal.

Teaching is done through class-room lectures and tutorials. Audio-visual aids, specially screening of films based on the syllabi and over-head projectors are deployed besides running of CD/DVD to ensure proper imparting of the intricacies of the subject. Students



are also guided through written work and to ensure its proper utility periodical assessments and half yearly examinations are conducted to fathom their understanding. The annual examination is conducted by the College and the College acts as an examination centre.

The College has consistently been taking initiatives regularly to help its faculty develop itself. Our teachers have been attending seminars and symposiums throughout the year, attending workshops and making presentations at National and International level. To encourage interaction of faculty and students with distinguished experts we invite several academicians from different disciplines and their inputs are quite valuable.

VISION AND MISSION

Vision

To carry forward the vision of our founders of Arya Samaj providing affordable quality education to uplift society and to empower the socially and economically marginalized people and help the students to discover their hidden potentials.

Mission

To create and maintain an environment of excellence in education and make the students independent, self-reliant and confident.

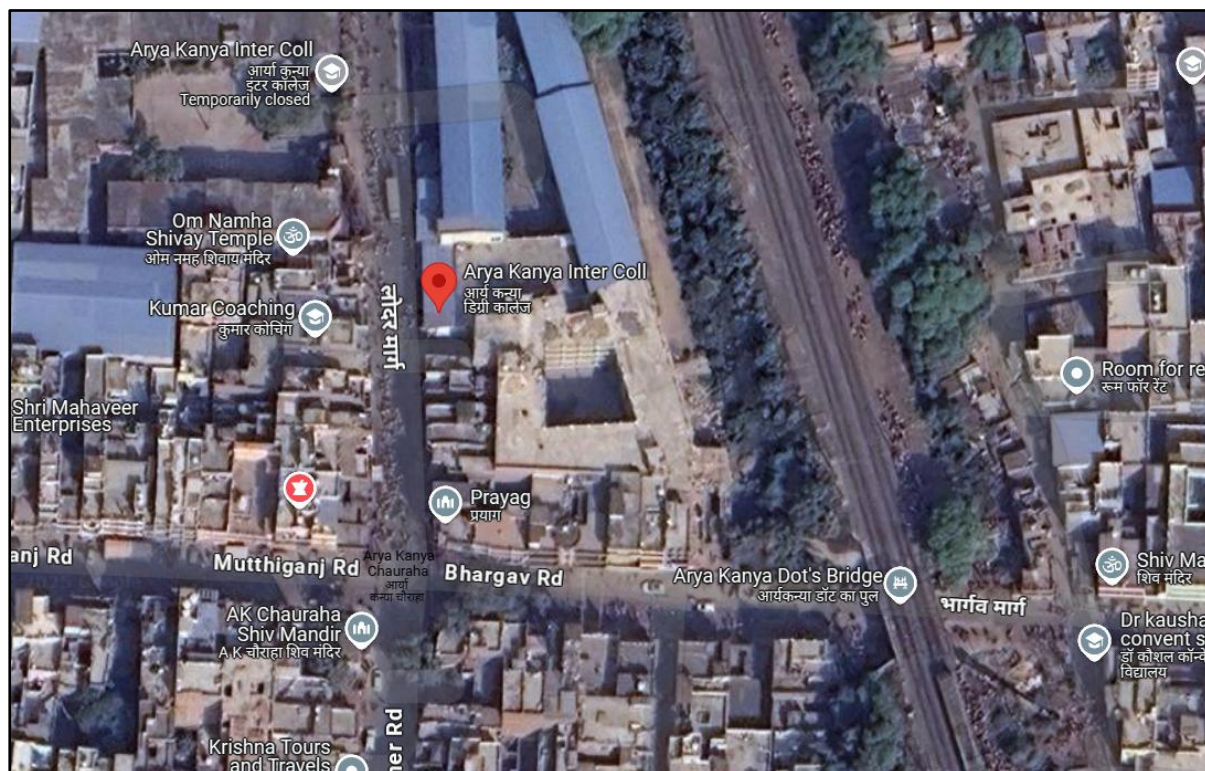
Objectives:

- To inculcate values and virtues of responsible citizens.
- To endeavour for removal of gender discrimination.
- To provide knowledge of human rights and duties.
- To inculcate environment consciousness and awareness.
- To educate about world peace and universal brotherhood.
- To make the students economically empowered and independent.
- To educate the students to serve the society.
- To teach the importance of health and hygiene.
- To encourage students to adopt modern technology.



2.3. Location of Arya Kanya Degree College:

Arya Kanya Degree College, Prayagraj 886, Mutthiganj, Prayagraj, U.P. and the GPS Coordinates of the College is 25°26'00.9"N 81°50'46.7"E.



Total Campus Area & College Building Spread Area

Campus area	2540 Sqm.
Buildup Area	2135 Sqm.



3. 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 program 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 Arya Kanya Degree College, Prayagraj. 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.



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
- It portrays an image of an institution which helps building better relationships.
- Promotes the alertness for environmental guidelines and duties
- Identify the prevailing and for the coming impacts on environment
- 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.



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.

Auditing for Waste Management

Pollution from waste is aesthetically unpleasing 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 is a huge deal 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 electricity supplier. 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.



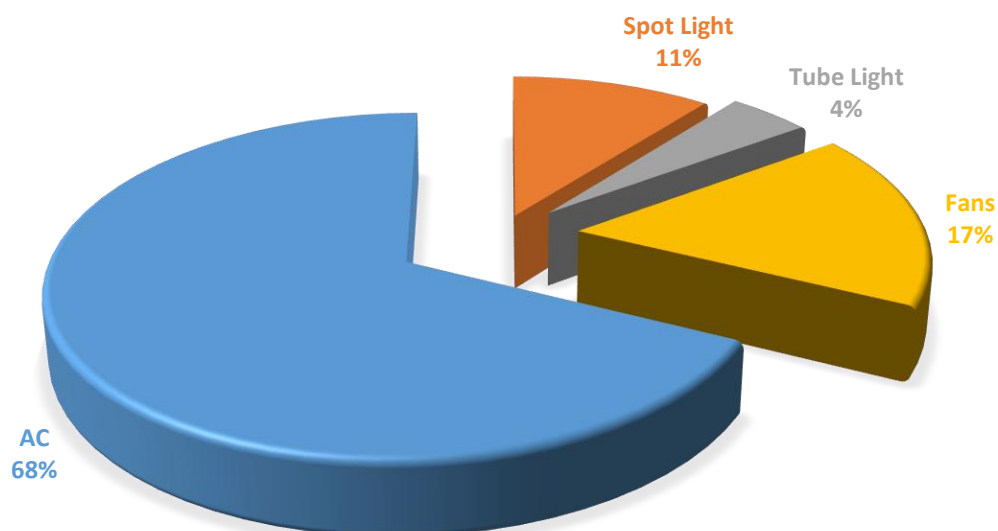
4. Post-Audit Stage

4.1 Energy Usage

DETAILS OF ENERGY CONSUMPTION:

Sr.No.	Type of Fitting	Qty.	Total KW
1	Spot Light	185	6.7
2	Tube Light	154	2.8
3	Fans	156	10.9
3	AC	21	43.0
4	Computer(200W)	46	9.2
5	Other	11	5.0
Total Load			77.6

CONNECTED LOAD BREAKUP



LED Installed in Campus





5 Water Management & Usage:

Water is a valuable natural resource for all living organisms. It is freely available depending on the climate and topographic features of a region. Although water is natural freely available but potable (drinkable) water is not available freely for human consumption. In our planet 70% area is covered by water but less than 3% of it is fresh water. Water pollution and wastage plays a vital role in water crisis. Water contaminations are taking place at an alarming rate. Drinking or using contaminated water leads to many diseases. That is why it is important to ensure that drinking water is safe, clean and free from bacteria and other pathogens.

It is also important to conserve protect and manage the water resources availability and usage so that it is sustainably used. college examines the quality and usage of water in the college campus. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water.

Water Storage Tank Capacity in Litre:

Sl No.	Location	No. of Tank	Tank Capacity (Ltr)	Storage Capacity (Ltr)	Total Storage (Ltr)
1	College Building	05	500 litres	500 litres	2500 litres
		02	1000 litres	1000 litres	2000 litres
	Total Water Storage				4500 litres

Water Supply to College in Litre/ Day

Sl No.	Source Of Water	kW Rating	Location	Under Control	Pump Running Minute /Day	Supply Ltr/Day	% age of Supply Water
1	Submersible Pump	1 ½	Right side of the main gate	Guard/ Peon	Per Day 3 hours	1000 litres	5 litres
2	-	-			-	-	-
Total Water Supply					1000		5



6 Waste Management

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

The college's vision is deeply committed to environmental management and sustainability. The 3Rs—Reduce, Reuse, recycle are among the activities and principles for sustainable development that are envisioned in the college's Green Charter. There is a three-tiered waste management system in place: sustainable trash disposal, centralised collection at designated locations, and waste segregation at the source into biodegradable and non-biodegradable garbage. Chemicals and hazardous waste are treated using specific techniques'—waste is gathered and disposed of in accordance with government regulations.

Solid Waste Management

solid waste" means any garbage or refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, resulting from industrial, commercial, mining, and agricultural operations, and from community activities. Nearly everything we do leaves behind some kind of waste.

- Three Bins (green, yellow, blue) are customary to collect segregated waste.
- Installation of sanitary napkin incinerators.
- Best out of waste competition organised in the department.
- Conducted Relies.
- Use of e-documents in college have substantially reduced paper waste.

A solid waste is any material that is discarded by being:

- **Abandoned:** The term abandoned means thrown away. A material is abandoned if it is disposed of, burned, incinerated, or sham recycled.
- **Inherently Waste-Like:** Some materials pose such a threat to human health and the environment that they are always considered solid wastes; these materials are considered to be inherently waste-like. Examples of inherently waste-like materials include certain dioxin-containing wastes.
- **A Discarded Military Munition:** Military munitions are all ammunition products and components produced for or used by the U.S. Department of Défense (DOD) or U.S. Armed Services for national defence and security. Unused or defective munitions are solid wastes when:
 - ❖ abandoned (i.e., disposed of, burned, incinerated) or treated prior to disposal;
 - ❖ rendered nonrecyclable or non-usable through deterioration; or
 - ❖ declared a waste by an authorized military official. Used (i.e.,



fired or detonated) munitions may also be solid wastes if collected for storage, recycling, treatment, or disposal.

Liquid Waste Management

- Stagnant water is checked by filling the area with sand and mud.
- Chemicals are properly diluted with 1-10% solution of bleach and the same are disposed.
- ☑ Awareness to the students of college for water conservation and protection of natural resources is given by teachers from time to time.
- ☑ Stickers and posters have been put up at various places in the college campus giving the message of water and nature conservation to students.

Hazardous Chemicals

- The college is morally dedicated to reducing the amount of hazardous waste produced while implementing the proper guidelines for its handling and disposal. Dangerous Chemical waste from laboratories is neutralised, diluted many times, and then disposed away with caution.

E-Waste Management

- Computers, decommissioned instruments, and other electrical wastes are duly certified, collected, and sent to the appropriate organisation for disposal
- The outdated, damaged, non-working and repaired machines, computer, monitors, printers, CD"s, etc . are replaced and scraped.
- E-waste collected at the site is transferred for wiping or recycling to the local vendors on yearly basis such as broken computer monitors, printers, scanners, keyboards etc.

Waste Recycling

- Like any other organization / institution our college also disposes solid wastes. These wastes are categorized into packing materials [Viz – Thermacols, Cardboards, Plastic bottles, etc]; paper wastes, printing, papers envelopes, biodegradable plant wastes from lab and garden, building material and e-wastes.
- Tenders are called for selling of used answer sheets bundle for recycling every year. Vermicomposting pits are constructed for rearing composting worms and making vermicompost
- The College has adopted Reuse, Reduce and Recycle Strategies for the sustainability of the ecosystem. In this context, the College collects used but undamaged and useful clothes and other artifacts time-to-time and distributes these articles to socially backward classes. Single-sided printed but not confidential papers are reused for rough works and proofreading works. Under the „Reduce“ strategy packaging materials thermacols, cardboards are utilized in preparing art and craft works. Apart from these other wastes like plastics and glass bottles, PVC pipes are also converted into flower vase, decorative lights / items etc.



MONTHLY PAPER WASTE DETAILS:

Sl No.	Details of Paper		New Paper		Waste Paper
	Paper	Unit	New Paper	News paper	Waste Paper
1	Paper Packet (A4 Size)	4 Pkt.	-	3 (Times of India, Hindustan and Dainik Jagran)	-
2	Weight Per Packet (Kg)	2.34 Kg. per Pkt.	-	Times of India ; 1.5 Kg. per month Hindustan : 1.5 Kg. per month Dainik Jagran : 1.8 Kg. per month	-
	Total Weight	9.36 Kg.	-	4.8 Kg. per month	-
					-

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.



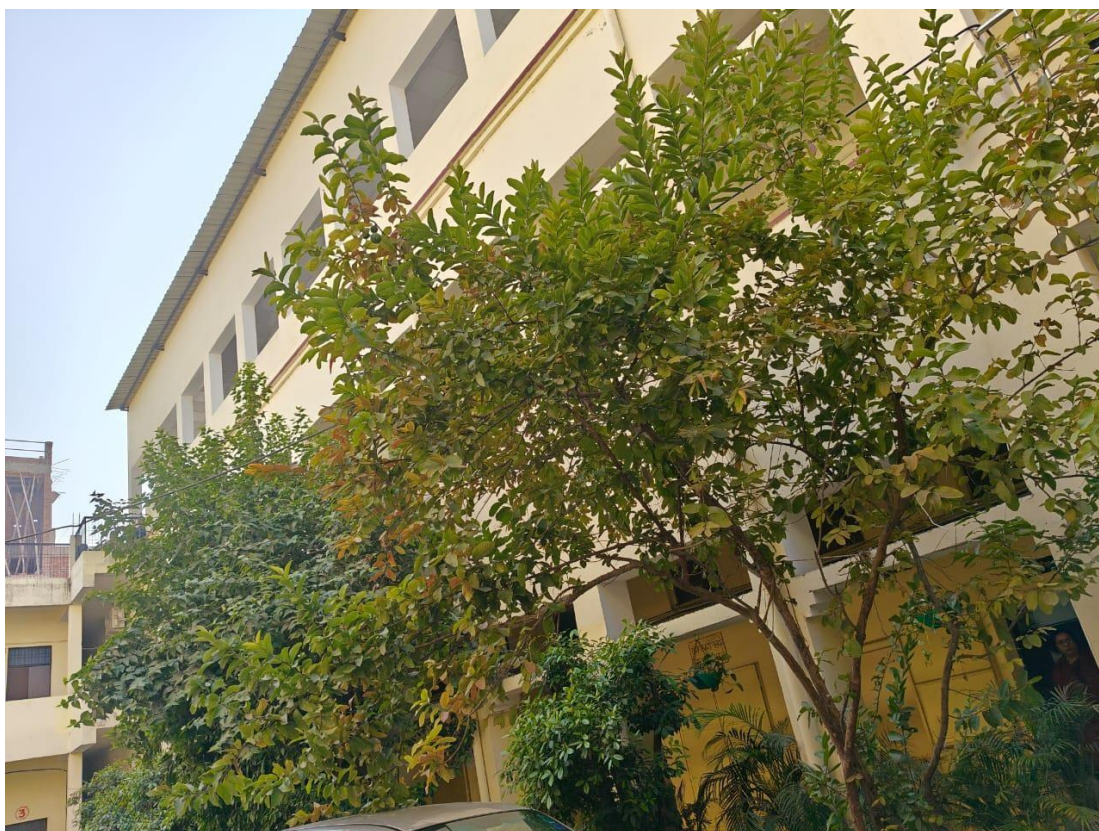
7 Greenery in Campus

Existing trees/ plants details in the campus

S.No.	Local Name	Botanical Name	Number of Plants
1.	Gulmohar	Delonix regia	30
2.	Ashok Tree	Saraca indica	25
3.	Meethi Neem	Murraya Koenigii	08
4.	Tulsi	Ocimum tenuiflorum	12
5.	Karonda	Carrisa carandas	10
6.	Gudahal	Hibiscus malvaceae	05
7.	Harshringar	Nyctanthes arbor-tristis	04
8.	Kena	Commelina benghalensis	10
9.	Papeeta	Carica papaya	05
10.	Bargad	Ficus benghalensis	02
11.	Rose	Rosaceae	12
12.	Lasora	Cordia dichotoma	02
13.	Peepal	Ficus religiosa	02
14.	Motijhara	Tragia involucrate	01
15.	Champa	Magnolia champaca	05
16.	Chameli	Jasminum officinale linn	04
17.	Shahtoot	Morus alba	02
18.	Guava	Psidium guajava L	35
19.	Banana	Musa paradisiacal Linn	02
20.	Amla	Phyllanthus emblica	04
21.	Bela	Jasminum sambac	05
22.	Neem	Azadirachta indica	02
23.	Mango	Mangifera indica	01
24.	Seasonal plants and flowers	-	-
Total			188

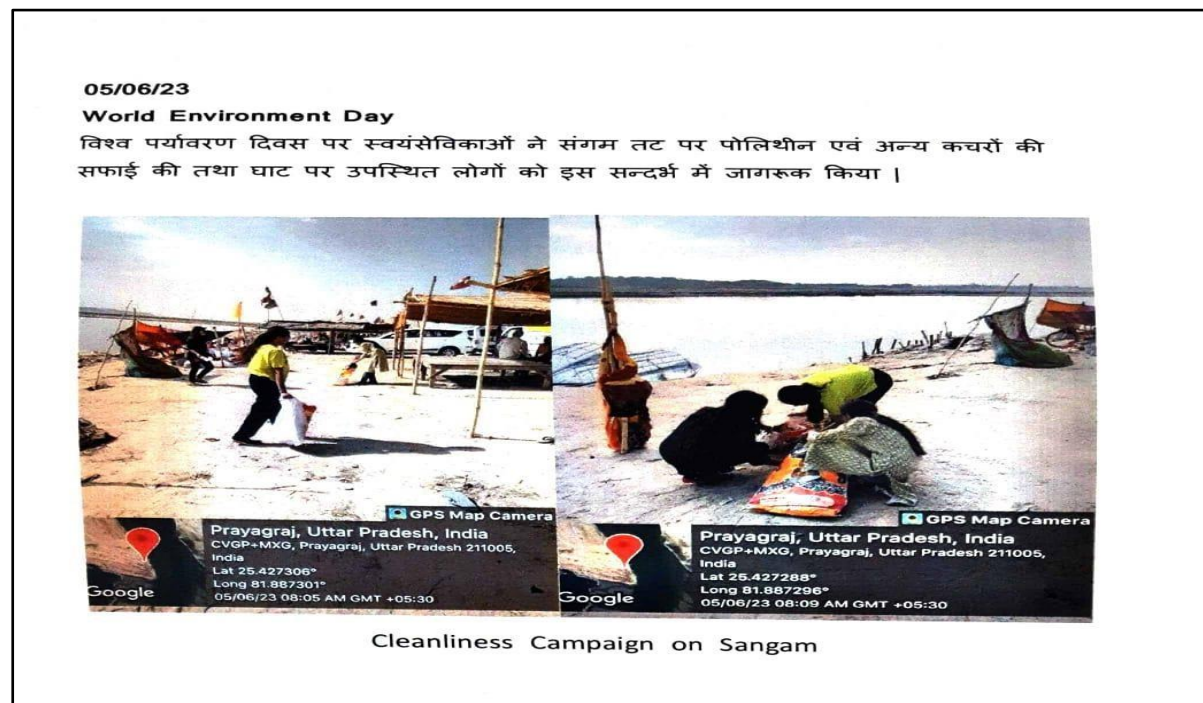








Green Initiatives by the College:





01-21/07/23

National Student Environment Competition

भारत सरकार
युवा कार्यक्रम एवं खेल मंत्रालय
(युवा कार्यक्रम विभाग)
राष्ट्रीय सेवा योजना क्षेत्रीय निदेशालय
(उत्तर प्रदेश, उत्तराखण्ड)
सेवा भवन, आदर्श नगर, गेट नं. 1,
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सत्यमेव जयते

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Regional Directorate of National Service Scheme
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facebook : NSSRD, LUCKNOW

दिनांक: 23.05.2023

सं. 15-01/निसर्वा/सेवा/सं. 2023-24 / 12.44 - 1315

सेवा में,
राज्य रा.से.यो. अधिकारी,
उत्तर प्रदेश एवं उत्तराखण्ड

विषय: दिनांक 01 जुलाई से 21 अगस्त, 2023 तक राष्ट्रीय छात्र पर्यावरण प्रतियोगिता में रासेयो स्वयंसेवकों की प्रतिभागिता के सन्दर्भ में।

महोदय/महोदया,

उपरोक्त विषयक मंत्रालय के पत्र संख्या के-11032/3/2023-युनएसएस विनांक 22 मई, 2023 का सन्दर्भ ग्रहण करें। उक्त के सन्दर्भ में आपको अवगत कराना है कि पर्यावरण संरक्षण समिति द्वारा पर्यावरण संरक्षण गतिविधि के अंतर्गत राष्ट्रीय स्तर पर छात्र पर्यावरण प्रतियोगिता का आयोजन किया जा रहा है। जिसका उद्देश्य छात्रों में पर्यावरण सुरक्षा एवं संरक्षण के प्रति जागरूकता पैदा करना है। जिसके अंतर्गत पर्यावरण से सम्बंधित मुख्य विषय इस प्रकार हैं :-

1. जल प्रबंधन
2. प्लास्टिक और बायोडिग्रेडेबल सामग्री के उपयोग का उन्मूलन
3. वृक्षारोपण
4. प्राकृतिक संसाधनों का पुनः उपयोग और पुनर्चक्रण
5. शैक्षिक गतिविधियों के माध्यम से जलवायु परिवर्तन के प्रति जागरूकता
6. जागरूकता अभियान

उपरोक्त विषय को समेकित करते हुए छात्रों के लिए राष्ट्रीय स्तर पर ऑनलाइन माध्यम से विज्ञ प्रतियोगिता का आयोजन किया जा रहा है। उक्त प्रतियोगिता में रासेयो स्वयंसेवकों द्वारा अलग-अलग समूह में प्रतिभाग किया जाना है।

समूह 'सी' : +2 स्तर के रासेयो स्वयंसेवक
समूह 'डी' : स्नातक एवं परास्नातक स्तर के रासेयो स्वयंसेवक

पंजीकरण प्रक्रिया:

स्वयंसेवकों/छात्रों द्वारा ऑनलाइन विज्ञ प्रतियोगिता में प्रतिभाग हेतु लिंक दिनांक 01 जुलाई से 21 अगस्त, 2023 तक खुली रहेगी। लिंक : <https://ecomitram.app/nspe23> प्रतिभागी लिंक पर जाकर प्रतिभाग कर सकते हैं। परिणाम हेतु 27 अगस्त, 2023 को इस लिंक को देखा जायेगा : <https://ecomitram.app/nspe23/results> उक्त लिंक हिंदी और अंग्रेजी दोनों भाषाओं में उपलब्ध रहेगा।

पंजीकरण शुल्क : प्रतिभागी कृपया अपने घर पर किसी भी पौधे के 10 बीज दिखाएं और दिए गए लिंक पर फोटो अपलोड करें : <https://ecomitram.app/nspe23>



Certificates of National Student Environment Competition 2023

17-31 /07/23

29 /09/23

Cleanliness Program

स्वच्छता कार्यक्रम में शासी निकाय के अध्यक्ष श्री पंकज जायसवाल जी ने स्वयंसेविकाओं को संबोधित करते हुए कहा कि जानवर भी जिस स्थान पर रहते हैं उस जगह को स्वच्छ रखते हैं, हम इंसानों को स्वच्छता के प्रति खुद को और समाज को सदैव जागरूक करते रहना चाहिए। प्राचार्य प्रो. अर्चना पाठक ने सभी को स्वच्छता के महत्व के बारे में बताया। सभी स्वयंसेविकाओं ने महाविद्यालय परिसर की सफाई करके सभी गमले का रंग रोगन किया तथा कूड़े कचरे को साफ किया। कार्यक्रम अधिकारी तथा कार्यक्रम की संयोजिका डॉ. रंजना त्रिपाठी ने स्वच्छता के फायदे को बताते हुए इसको अपनी आदत बनाने पर जोर दिया।



News coverage of Program



Meri Mati Mera Desh

9/08/23 से 15/08/23

आर्य कन्या महाविद्यालय में 9 अगस्त से 15 अगस्त तक चलने वाली "मेरी माटी मेरा देश" कार्यक्रम के अंतर्गत राष्ट्रीय सेवा योजना की स्वयंसेविकाएं पूरे हफ्ते विभिन्न कार्यक्रमों को क्रियान्वित करते हुए आज 15 अगस्त के दिन इसका समापन हुआ। स्वयं सेविकाओं ने प्रथम दिन मेरी माटी मेरा देश पर आयोजित व्याख्यान में प्रतिभागिता की, जिसमें शासी निकाय के अध्यक्ष श्री पंकज जायसवाल जी ने स्वयं सेविकाओं को वीर जवानों के बलिदान की गाथा बताते हुए हाथ में मिट्टी लेकर पंचप्रण की प्रतिज्ञा कराई। प्राचार्य प्रो० अर्चना पाठक ने सभी स्वयं सेविकाओं को एन०एस०एस में सक्रिय भागीदारी के लिए प्रेरित किया। महाविद्यालय प्रांगण में पौधे लगाए गए तथा राष्ट्रगान के द्वारा कार्यक्रम का समापन हुआ। 11/08/23 आर्य कन्या इंग्लिश मीडियम संस्थान में कई मेडिसिनरी पौधे अध्यक्ष शासी निकाय श्री पंकज जायसवाल प्राचार्या प्रोफेसर अर्चना पाठक सहित सभी कार्यक्रम अधिकारी और स्वयं सेविकाओं द्वारा लगाये गए। 13/08/23 सभी स्वयंसेविकाओं को स्वतंत्रता संग्राम में प्रयाग की भूमिका" विषय पर 500 शब्दों में निबंध लिखने के लिए कहा गया। जिसमें सभी यूनिट के स्वयं सेविकाओं ने प्रतिभाग किया तथा कुमुद मंजरी ने प्रथम स्थान, प्रतिभा त्रिपाठी और काजल सिंह ने द्वितीय स्थान, नेहा विश्वकर्मा और जूही ने तृतीय स्थान आकांक्षा पांडे ने सांत्वना पुरस्कार प्राप्त किया। 14/08/23 मेरी माटी मेरा देश के अंतर्गत एक विशाल एवं भव्य जुलूस अध्यक्ष शासी निकाय श्री पंकज जायसवाल के निर्देशन में निकाला गया। जो मुटठीगंज से होते हुए कोठापर्चा बहादुरगंज से होते हुए कटघर की तरफ से वापस आया। कार्यक्रम के अंतिम दिन 15/08/23 हर घर तिरंगा अभियान के अंतर्गत सभी यूनिट की स्वयंसेविकाओं ने तिरंगे के साथ सेल्फी ली और उसे पोर्टल पर डाला साथ ही महाविद्यालय में राष्ट्रीय सेवा योजना की स्वयंसेविकाओं ने गीत व लेख प्रस्तुत किया। और अध्यक्ष शासी निकाय ने श्रीमती रंजना सोबती स्त्री आर्य समाज की अध्यक्ष और श्री प्रेमचंद जी वरिष्ठ समाजसेवी को सम्मानित किया गया।

10/10/23

Meri Mati Mera Desh

राष्ट्रीय सेवा योजना स्वयंसेविकाओं ने कलश में मिट्टी अर्पित करके इस कार्यक्रम को संपन्न कराया। कार्यक्रम में शासी निकाय के अध्यक्ष श्री पंकज जायसवाल जी ने सर्वप्रथम कलश में मिट्टी देकर कार्यक्रम का शुभारंभ किया। तत्पश्चात प्राचार्या प्रो अर्चना पाठक ने सभी का स्वागत किया और कार्यक्रम के उद्देश्य पर महत्व डाला। कार्यक्रम की संयोजिका तथा कार्यक्रम अधिकारी डॉ रंजना त्रिपाठी ने छात्राओं को बताया कि यह मात्र मिट्टी ही नहीं हमारी, भारत मां है हम सबको इन्हें संवारने के लिए तत्पर रहना चाहिए। कार्यक्रम में डॉ ममता गुप्ता, डॉ इभा सिरोठिया, डॉ नीलांजना, डॉ स्मिता, डॉ भारती, डॉ पूजा, डॉ आरती, सहित बड़ी संख्या में स्वयंसेविकाओं ने अपनी उपस्थिति दर्ज करायी।



05/02/24

Cleanliness Program

आज आर्यकन्या डिग्री कॉलेज में राष्ट्रीय युवा योजना की सभी इकाइयों की स्वयंसेविकाओं ने अपने-अपने कार्यक्रम अधिकारियों के निर्देशन में क्यारियों और गमलों से खरपतवार निकाले। उनकी निराई गुड़ाई की। खराब हो चुकी शाखाओं और पौधों को निकाला। गमलों का रंग रोगन किया तथा उन्हें करीने से व्यवस्थित किया।





Medicinal plants ropan and weeds removal 11/08/23



Mashal Juloos 14/08/23



Medicinal plants ropan and weeds removal 11/08/23





Plantation drive by the Chairperson Sri Pankaj Jaiswal, teachers and students



Posters at different places in the campus

आर्य कन्या डिग्री कॉलेज में स्वच्छता पखवाड़ा के अंतर्गत स्वच्छता जागरूकता कार्यक्रम का हुआ आयोजन

संयम भारत संवाददाता

प्रयागराज, आर्य कन्या डिग्री कॉलेज में दिनांक 25 सितंबर 2024 को स्वच्छता पखवाड़ा के अंतर्गत स्वच्छता जागरूकता कार्यक्रम का आयोजन किया गया इस अवसर पर आर्य कन्या महाविद्यालय के शासी निकाय के अध्यक्ष पंकज जायसवाल ने स्वयं सेविकाओं को बताया कि हमें स्वच्छता को अपनी आदत में शामिल करने की जरूरत है इस अवसर पर प्रयागराज की सहायक नगर आयुक्त सुश्री दीपशिखा पांडे ने स्वयं सेविकाओं को पर्यावरण को स्वच्छ रखने तथा वेस्ट मटेरियल (6'2'3'1'1') को ऊर्जा में परिवर्तित करने पर जागरूकता दी। इस अवसर पर महाविद्यालय की प्राचार्या प्रोफेसर अर्चना पाठक आर्य

कन्या समूह की सलाहकार डॉ ममता गुप्ता उप प्राचार्या प्रोफेसर इभा , डॉ अर्चना सिंह तथा डॉ भारती देवी के नेतृत्व में रैली निकाली नगर निगम



सिरोठिया मौजूद थी। राष्ट्रीय सेवा योजना की पांचो यूनिट 23, 24, 25 तथा 72 की स्वयं सेविकाओं ने अपने कार्यक्रम अधिकारियों डॉ रंजना त्रिपाठी डॉ. मुदिता तिवारी, डॉ अनुपमा सिंह

के कूड़ा ढोने वाली गाड़ी थी सुख और गीले कूड़े के निस्तारण के लिए जागरूक किया कार्यक्रम का संयोजन एनएसएस की प्रभारी कार्यक्रम अधिकारी डॉ रंजना त्रिपाठी ने किया



Air Conditioner condensate water recycling and reuse



Push Taps in the campus



8. Conclusion and Recommendations

Green Audit is the most efficient way to identify the strength and weakness of environmentally 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) Campus is declared plastic free, stringent actions should be taken to maintain this.
- iii) 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) Regular planting of trees in the campus Can be increased.
- ix) Display boards to all plants & trees identified, should be increased.
- x) There are only very few fruit trees in the College to attract birds.
- xi) College has not yet taken any initiative for carbon accounting.



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 programs on environmental management system and nature conservation.

Energy

- i. Establish a purchase policy that is energy saving and eco-friendly.
- ii. Conduct seminars, workshops and exhibitions on environmental education.
- iii. Replace old fans with energy efficient fans.
- iv. Replace Old Ac's with energy efficient Ac's

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.

Green Campus

- i. Create automatic drip irrigation system during summer holidays.
- ii. Not just celebrating environment day but making it a daily habit.
- iii. Beautify the College building with more indoor plants.
- iv. Conducting competitions among departments for making students more interested in making the campus green.

Carbon footprint

- i. Establish a system of carpooling 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 Auditing

In the light of green 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.



CERTIFICATION

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

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- 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 & Environment 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:

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