

ZAKIR HUSAIN DELHI COLLEGE (E) UNIVERSITY OF DELHI



GREEN AUDIT REPORT



2022

Prepared By :
Shanti Institute for Testing
& Research, Hisar-125001 (HR)



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CERTIFICATE

Date:03.04.2023

This is to certify that **Zakir Husain Delhi College, Evening (University of Delhi)** has undergone a **Environment Audit/ Green Audit** conducted by Shanti Institute for Testing & Research, Hisar, Haryana. The college submitted necessary data and credentials for the audit. The activities and measures were verified based on the supplied data and were found acceptable. We hereby confirm that the audit report was conducted in accordance with industry standards and best practices, and we are satisfied with the level of compliance demonstrated by the college.

This certificate is issued in recognition of the college's commitment to environmental sustainability and their efforts to reduce their environmental impact.



SUBAHSH CHANDRA YADAV
LEAD AUDITOR

DR. MUKESH KUMAR
AUDITOR

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ACKNOWLEDGEMENT

That's a wonderful expression of gratitude from Shanti Institute of Training and Research (SITR) to **Zakir Husain Delhi College, Evening (University of Delhi)** for the opportunity to conduct the green audit. It's evident that SITR values the collaboration and cooperation received from **Prof. Masroor Ahmad Beg (Principal), Prof. Dr. Laljee (IQAC Coordinator)** and the entire college community during the audit process.

This message highlights the importance of collective effort and teamwork in advancing environmental consciousness and sustainability goals. It's heartening to see acknowledgment extended to all individuals involved, including teaching faculties, non-teaching staff, students, various departments, and administrative personnel.

Such collaboration and appreciation foster a sense of community and shared responsibility towards environmental stewardship. It's commendable that SITR recognizes and values the contributions of everyone involved in the green audit process, emphasizing the significance of partnerships in achieving sustainable outcomes.

Last but not the least, we would like to thank **Mr. Haroon Khan**- Section Officer, Admin for their cooperation and necessary help.

Overall, this message reflects a spirit of gratitude, collaboration, and commitment to environmental sustainability, which are essential qualities for fostering positive change in our communities and beyond.

DISCLAIMER

This disclaimer from Shanti Institute of Training & Research (SITR) clarifies important points regarding the green audit report prepared for Zakir Husain Delhi College, Evening (University of Delhi). It emphasizes the following key aspects:

The audit report's findings and conclusions are based solely on the information, data, and environmental aspects identified during the audit process at Zakir Husain Delhi College. The scope is explicitly defined and should not be extended beyond its intended purpose.

The report should only be used for its intended purpose, and any reliance placed on it by third parties is at their own risk. It's stressed that the report does not constitute a warranty or guarantee of accuracy or completeness.

Acknowledgment is made of the inherent limitations and uncertainties associated with the audit process. The report is presented as a tool to guide the college in improving its environmental performance rather than as a definitive statement of compliance or impact.

SITR asserts that they are not liable for any errors, omissions, or actions taken by any party based on the report's findings and conclusions. The clear instructions are provided for contacting SITR in case of questions or concerns regarding the report or the audit process.

Overall, this disclaimer ensures transparency, clarifies the purpose and limitations of the audit report, and protects SITR from any unintended use or reliance on the report's findings. It's a standard practice in professional auditing to provide such disclaimers to manage expectations and mitigate potential liabilities.

Sincerely,

Dr. Mukesh Kumar
SITR, Hisar-125001,
Haryana

1. INTRODUCTION



1.1 INTRODUCTION

NAAC is prioritizing environmental sustainability through its Green Audit initiative. Making it mandatory for Higher Educational Institutions to submit an annual Green, Environment, and Energy Audit Report demonstrates a commitment to promoting eco-friendly practices within academic settings. By assigning the Green Audit to Criteria 7, NAAC is recognizing the importance of environmental stewardship alongside other academic and institutional criteria. This move not only encourages institutions to adopt sustainable practices but also contributes to raising awareness about the importance of environmental conservation within the education sector.

The decision by the College management to conduct an external environment assessment study by a competent professional auditor in response to the NAAC circular on Green auditing is a proactive step towards ensuring environmental sustainability. The green audit's primary objective of examining environmental practices both within and outside the college campus reflects a holistic approach to understanding and mitigating the institution's environmental impact.

Defining the green audit as a systematic process involving identification, quantification, recording, reporting, and analysis of various components of the college environment underscores the thoroughness and rigor of the assessment. By conducting such a comprehensive audit, the college management can gain valuable insights into areas where improvements are needed and identify potential risks to the health of inhabitants and the environment.

Through the green audit, a direction as how to improve the structure of environment and inclusion of several factors that can protect the environment can be commenced. This audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the institution. The concepts, structure, objectives, methodology, tools of analysis, objectives of the audit are discussed below.

1.2 BACKGROUND

An environmental audit report is a thorough evaluation of an organization's operations and their effects on the environment. It examines various aspects such as resource consumption, waste generation, emissions, and pollution levels to assess the organization's environmental performance. This analysis provides insights into how the organization's activities influence the environment and helps identify areas for improvement to minimize negative impacts. It serves as a detailed examination of an organization's environmental practices and their effects on the surroundings. This report typically encompasses various aspects such as resource usage, waste management, emissions, and adherence to environmental regulations. By offering insights into the organization's environmental performance, it guides the formulation of strategies for minimizing negative impacts and fostering sustainability.

The roots of environmental auditing can indeed be traced back to the 1970s, a period marked by growing awareness of environmental issues, spurred by events such as the publication of Rachel Carson's "Silent Spring" in 1962 and increasing concerns about pollution and its effects on human health and ecosystems.

During this time, governments worldwide began enacting environmental regulations aimed at controlling industrial pollution and protecting natural resources. These regulations often required industries to monitor their emissions, waste disposal practices, and overall environmental impact. As a result, organizations faced increasing pressure to demonstrate compliance with these regulations and to minimize their environmental footprint.

Environmental audit reports are indeed indispensable tools for organizations striving to understand and mitigate their environmental impact. By providing a comprehensive assessment of environmental practices, these reports facilitate compliance with regulations, identify areas for improvement, and guide the development of strategies for sustainable and responsible business practices. As environmental concerns continue to escalate globally, the importance of environmental audit reports will only increase, reinforcing their role in promoting environmental sustainability and ensuring the long-term viability of businesses.

1.3 METHODOLOGY

The methodology of a green audit, also known as an environmental audit, typically involves several key steps to systematically assess an organization's environmental practices and performance. Here's a general outline of the methodology:

1. Preparation and Planning:

- Define the scope and objectives of the green audit, considering factors such as the organization's activities, facilities, and environmental aspects to be evaluated.
- Establish a multidisciplinary audit team with expertise in environmental management, regulations, operations, and relevant technical areas.
- Develop an audit plan outlining the audit process, including timelines, resources required, and roles and responsibilities of team members.

2. Data Collection and Review:

- Gather relevant data and documentation related to the organization's environmental aspects, including permits, environmental policies, procedures, and operational records.
- Review historical data on resource consumption, waste generation, emissions, and other environmental indicators to identify trends and potential areas of concern.

3. On-Site Inspection:

- Conduct site visits to observe operations, facilities, and environmental controls firsthand.
- Assess compliance with environmental regulations, permit conditions, and internal environmental policies and procedures.
- Identify potential environmental risks, hazards, and areas for improvement through visual inspections and interviews with personnel.

4. Data Analysis:

- Analyze collected data to quantify the organization's environmental performance indicators, such as energy consumption, water usage, waste generation, and emissions.
- Compare performance data against regulatory requirements, industry benchmarks, and organizational targets or goals.

• 5. Risk Assessment:

- Evaluate environmental risks associated with the organization's activities, operations, and facilities.
- Prioritize identified risks based on their likelihood and potential impact on the environment, human health, regulatory compliance, and business operations.

6. Findings and Recommendations:

- Document audit findings, including strengths, weaknesses, non-conformities, and opportunities for improvement.
- Develop actionable recommendations for mitigating environmental risks, improving environmental performance, and achieving regulatory compliance.
- Prioritize recommendations based on their potential impact, feasibility, and alignment with organizational goals and objectives.

7. Reporting and Communication:

- Prepare a comprehensive green audit report summarizing the audit process, findings, and recommendations.
- Clearly communicate the report's findings and recommendations to key stakeholders, including senior management, environmental health and safety personnel, regulatory agencies, and relevant employees.
- Engage stakeholders in discussions on how to implement recommended actions and integrate environmental management into organizational decision-making processes.

8. Follow-Up and Monitoring:

- Track implementation of recommended actions and monitor progress towards achieving environmental objectives and targets.
- Conduct follow-up audits or reviews periodically to assess the effectiveness of implemented measures and identify any new environmental risks or opportunities for improvement.
- Continuously improve the organization's environmental management system based on lessons learned from audit findings and feedback from stakeholders.

Moreover, the findings and recommendations from the environmental audit report can serve as a roadmap for prioritizing sustainability initiatives, allocating resources effectively, and tracking progress over time. By regularly updating and revisiting the audit process, colleges can ensure continuous improvement in their environmental performance and contribute to building a more sustainable future for their communities and beyond.

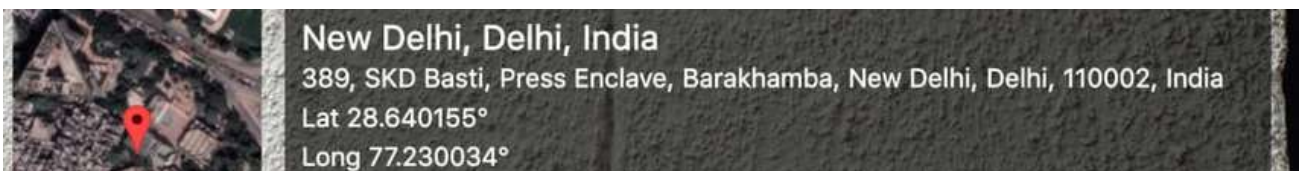
2. COLLEGE PROFILE



COLLEGE MAP



GEO-LOCATION



2.1 OVERVIEW OF INSTITUTE

Zakir Husain Delhi College, one of the oldest colleges in Delhi University combines the legacy of a rich and a historically significant past with the needs of a rapidly evolving present. The institution traces its origins back to a Madrasa, founded by Ghaziuddin Firoz Jung in 1798 that was one of Delhi's leading places of learning. It is a constituent college of the University of Delhi and from its very inception as an independent college in 1958, the college has been guided by the basic principle of "Live by Love".

With the takeover of the British in 1803, the Madarsa became Delhi College, also popularly known as 'Dilli College' in 1825. During the freedom struggle, the college had its ups and downs, and at one time was merged with Government College, Lahore. Post partition, the college was closed for a brief period. However, the strenuous efforts of Mirza Mehmood Begg, led to the revival of Delhi College. It was under his stewardship that evening classes were started in 1958 to enable employed youth to continue their education.

Over the years, the college has expanded from catering only to employed students to a college catering to the large diversity seen in Delhi University. The location of the college is a big advantage, especially for female students residing in the Old Delhi area, who are often able to continue their education due to this factor alone. Despite constraints that are out of our jurisdiction, the college has strived to continue its sustained trajectory of development in the last few years. The College is also one of the few colleges of the University of Delhi that organizes an annual convocation for its graduating students.

2.2 VISION

Mentor, Educate, Empower: Creating Leaders of Tomorrow

Zakir Husain Delhi College (Evening) is guided by its motto "Live by Love". Cognizant of our long tryst with history, the college strives to be a bridge between the old and the new – moving forward keeping in tune with the times, and yet, making every effort to uphold the values that characterized the old Delhi College in the 19th century. It continues to maintain the "Ganga Jamuni Tehzeeb".

·The College strongly upholds the principles of secularism, tolerance, gender and social justice. It symbolises a steadfast dedication to fundamental personal and societal principles such as compassion, societal duties, fairness, and democratic governance.

The college has therefore developed into an institution that combines tradition and modernity through its commitment to ideals rooted in a scientific, academic, and intellectual tradition.

·The college vision is also in line with the vision of Delhi University - "Nishtha Dhriti Satyam" – a commitment to dedication, steadfastness and truth.

·The college is committed to transforming the lives of its primary stakeholders – the students – by enabling, empowering and enlightening them not just through teaching-learning inside the classroom but also through various co-curricular activities and sports and also research and other extension activities.

·Aware of its unique character, the college is committed to social empowerment for all by making education inclusive and accessible to all the students belonging to diverse sections of society.

·The constant mentoring by the faculty with this vision enables our graduates to excel in the real world and become architects of a new India and a new global world order.

·The college is steadfastly committed to a holistic educational vision directed at shaping young lives into a fellowship of socially responsible citizens, committed leaders and visionary innovators.

2.3 MISSION

“Vidya Dadati Vinayam” – Knowledge begets Humility.

The mission of Zakir Husain Delhi College (Evening) is to produce the next generation who will proudly take the country forward towards the mission of Viksit Bharat while remaining humble and grounded. To this effect, our goals and objectives are the foundation of all our activities in the college:

To realise our vision and fulfil our mission are goals are:

- Imparting of a holistic, high-quality education to all our stakeholders, including skill development and extension activities outside the classroom.
- Provide an aesthetically and culturally conducive environment that motivates students to achieve a cohesive and coherent intellectual development.
- Encourage all stake holders to contribute to nation-building and give back to the institution and the larger community.
- Foster values of humanity, social responsibility, equity, and democracy in students and inculcate in them the need to be kind to everyone.
- Inculcate environmental consciousness among the students and highlight the need to be in harmony with the environment.
- To create an inclusive-atmosphere and cater to the needs of slow and advanced learners.
- To provide the best possible infrastructure and latest technological aids to facilitate the teaching-learning process.
- To generate more career opportunities for students and make them employable.
- Encourage industry-academia collaborations for helping students gain global acceptance with a competitive edge. Nurture environmental consciousness oriented towards sustainable practices.

2.4 CAMPUS INFRASTRUCTURE

Zakir Husain Delhi College (Evening) boasts an impressive infrastructure that supports both academic and extracurricular activities. The campus, sprawling over 6.25 acres, offers modern amenities and facilities to its students. Here's a closer look at the infrastructure:

Campus: The college campus is designed with modern infrastructure and facilities to cater to the needs of students. It includes Wi-Fi connectivity, auditoriums, seminar rooms, medical facilities, and an audio-visual room. The lush greenery with well-maintained lawns, trees, and flower beds enhances the aesthetic appeal of the campus, providing a conducive environment for learning and relaxation.

Classrooms: The classrooms are spacious, well-ventilated, and equipped with modern teaching aids such as projectors and audiovisual tools. The college utilizes a diverse range of ICT tools for communication, creation, dissemination, storage, and management of information. Comfortable and ergonomic furniture ensures that students can focus on their studies without physical discomfort.

Library: The Mirza Mehmood Beg Library stands out as a well-stocked and modern facility on campus. It houses an extensive collection of books, journals, periodicals, and digital resources. With around 1,15,000 books and an Open Access System, students have ample resources at their disposal. The library also features two spacious reading halls with a seating capacity of 100 each, as well as dedicated enclosures for teachers and visually impaired students. Additionally, it contains a room dedicated to the Delhi College Archives, preserving historical documents related to the college's heritage. The library subscribes to leading magazines, leisure books, competitive exam materials, and general awareness resources. Moreover, it offers a Book Bank service, providing textbooks for the entire academic session, facilitating students and staff with the application of widely used social media tools for convenience.

CONT..

Auditorium: A centrally air-conditioned space accommodating up to 417 individuals. It features cutting-edge audio-visual systems and versatile lighting arrangements, hosting cultural events, lectures, and the annual college function.

Sports Facilities: Students can indulge in a variety of indoor and outdoor sports, including basketball, football, cricket, badminton, table tennis, and chess. The college provides a well-maintained sports ground for outdoor activities like cricket and soccer. Participation in sports activities, training sessions, and tournaments is encouraged, with access to facilities on a rotational basis and adherence to a prescribed dress code and discipline.

Canteen: The college canteen offers a spacious and hygienic environment, surrounded by greenery for a serene atmosphere. It serves a diverse menu of healthy, vegetarian delicacies at affordable prices, meeting the nutritional needs of students and staff. The quality of food and ingredients undergo regular monitoring to ensure standards are maintained.

Medical Facilities: A medical room staffed with qualified personnel and essential equipment provides first aid and emergency care. Adjacent to the library, the Medico-Counselling Room offers first-aid facilities and access to doctors, a medical assistant, physiotherapist, and psychiatrist on weekdays. Students can avail themselves of these services as needed.

Laboratories: The college is equipped with state-of-the-art laboratories for various subjects including Physics, Chemistry, Botany, Zoology, Computer Science, and Electronics. These laboratories are spacious, well-ventilated, and furnished with the latest equipment, fostering practical learning experiences for students.

Wi-Fi and IT Facilities: The college provides Wi-Fi connectivity and IT infrastructure, including three well-equipped computer labs catering to curriculum requirements across all streams. Additionally, the college is linked to Delhi University through a Wide Area Network (WAN), facilitating access to online resources such as e-books, e-journals, and databases.

PICTURES:



MAIN BUILDING



NEW BUILDING



AUDITORIUM



CANTEEN



LIBRARY



CLASS ROOM

2.5 ENVIRONMENTAL POLICY OF THE COLLEGE

ENVIRONMENTAL POLICY – SUSTAINABILITY AND EFFICIENCY

Zakir Husain Delhi College (Evening) is committed to the efficient use of resources to conserve the environment. The college Eco-club as well as the departmental societies organize a wide range of seminars, awareness campaigns, plantation and cleanliness drives throughout the year with the effort of students, non-teaching staff and faculty members. The college places a strong emphasis on fostering an environment that supports students' overall character development, with the teachers, non-teaching staff, and students working together to address the demands of the dynamic teaching learning environment.

OBJECTIVE:

The college is dedicated for promoting environmental awareness and fulfilling the SDG-30 goals. Besides, we consistently strive to adhere to all the environmental regulations outlined for higher educational institutions, as well as put into practice the various guidelines and campaigns of government for conservation of environment.

Highlights of our environment policy:

1. Eco-Friendly Campus.

Objectives: To propagate a healthy and sustainable way of living based on traditions and values of conservation and moderation.

To practice **TRUE (Total Resource Use and Efficiency)** for efficient and ethical utilisation of water and energy resources.

To initiate, inculcate and reinforce 'green' habits in our students through **5Rs- Refuse, Reduce, Reuse, Recycle** of waste management and Respect Nature. To include Education for Sustainability (EfS) curriculum across all classrooms for building knowledge and skills that lead to an environmentally sustainable world.

Context: The rapid increase in the urban centres has led to environmental degradation, creating the need to promote environmentally sustainable practices. Sensitising a generation of environmentally conscious students is of foremost priority of Zakir Husain Delhi College Evening.

Practice: A composting facility is maintained for biodegradable waste, with the compost used by the inhouse nursery. An electronic screen displays all notices that contributes to lower paper usage. E-waste collection corners in the college are effective; the Disposal committee disposes the collection further in an ecologically safe manner. Runoff from the college building's terraces is channelled into recharging pits at various locations. The subterranean collection pit intercepts runoff from the unpaved areas of the campus.

We employ a combination of LED and CFL light systems which are energy saving. The air conditioning of the college is BEE rated. In tune with TRUE (Total Resource Use and Efficiency) the classrooms and labs have been designed to allow ample natural light reducing energy use.

The Eco-club of the College organizes student competitions and events (Nukkad Nataks, plantation drives, Swacchata Abhiyaan, slogan and poster making competitions,) to foster a sense of social responsibility and create awareness on environmental challenges. NCC and NSS wings are active in reminding students to keep their campus and surroundings clean. As part of the AEC curriculum, annual field visits to Yamuna Biodiversity Park, Aravalli Biodiversity Park are organised regularly.

The College prides itself the presence of a replica of the Desert Ecosystem. This unique feature provides students with an invaluable opportunity to learn about and explore various natural resources. By immersing themselves in this simulated environment, students can gain a deeper understanding of the intricate balance and diversity of desert ecosystems, fostering a greater appreciation for the natural world around them.

Additionally, College boasts a remarkable herbal garden that showcases a wide array of herb varieties, each possessing proven health benefits. This garden serves as a living laboratory, allowing students to not only observe but also engage with these medicinal plants first hand. By studying the properties and applications of these herbs, students can develop a comprehensive understanding of their potential therapeutic uses, further enhancing their knowledge and skills in the field of natural medicine.

The Dr. Janki Ammal Botanical Garden is an invaluable resource of the college.

Zakir Husain Delhi College (Evening) campus is a completely tobacco free campus.

Zakir Husain Delhi College (Evening) campus is completely plastic free campus.

2. Use of Renewable Source of Energy

The college has installed solar panels on the terrace which generate electricity for day-to-day usage of the college building.

3. Water Conservation and Management

Regular and thorough inspection of all water taps, connecting pipelines and water tanks is carried out to prevent wastage of water in the college. The college has provisions for rain water harvesting. Clean drinking water is made available through RO water purifier with annual maintenance.

4. Solid Waste Management

Colour segregated dustbins have been installed at various locations in the college for the segregation of solid waste and disposed accordingly.

The college also has a vermi compost facility for the conversion of biodegradable waste. The compost generated through this unit is being used in plantation activities.

The college does not encourage the use of single use plastic.

The college also follows every guideline for disposal and treatment of biological waste.

5.Future Plans

- To make the campus entirely functional through electricity generated by solar panel.

- To install LED lights and fans along with most efficient electrical appliances throughout the college.

- To use sensor lighting wherever possible in the college premises.

- To promote more usage of bicycles by the students.

- To encourage faculty members and non-teaching staff to shift to electric/hybrid vehicles, the college plans to install at least two electric charging points for vehicles.

- To conduct localized plantation drives for introducing new species and adequately maintaining the existing species for a well diverse range of plants.

- To introduce a centralized norm for cleanliness while conducting any event within the college premises.

Glimpses Of Environment Related Activities Conducted in the College

The college has a vibrant Eco-club as well as an Environmental studies society. In addition, the NSS and the College Students Union also organise regular programmes on conservation and cleanliness in the college premises as well as outside the college. Some examples are:

- The college holds a variety of programmes, seminars, webinars etc to celebrate occasions like World Environment Day and Wildlife Week. Students are made aware of various issues related to the environment through these academic programmes. Some programmes include - "Commemorating Mahatama", "Lights, Camera, Animals" and various workshops.

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- The Eco-club conducts regular visits to various Biodiversity parks.
 - Clean Yamuna campaign is conducted periodically.
 - The Eco-club works with artisans who showcase sustainably designed items for regular and household use at various times of the year.
 - The college has been actively involved in the Namami Gange programme.
- The NSS unit of the college continuously strives for social transformation through welfare activities that include poster-making competition on Forest Conservation, 'Best Out of Waste' Drive, Nukkad Natak' on water scarcity, 'Clean India, Green India' drive, and distributing food and stationery to the underprivileged children. The NSS team has adopted one village in the Kashmere Gate area for Swacchata Abhiyan in collaboration with Municipal Corporation of Delhi.

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POPULATION WITH CATEGORY

2.1 Total Population:

Category	Population
Students	2499
Faculty	94
Non-teaching Staff	57

2.2 Total support staff:

Category	Population	Operating Hours
Guards	Day-10 Night-04	08:00AM-04:00 PM 08:00PM-08:00 AM
Housekeeping	5	12:30 PM-09:15 PM
Drivers	NA	NA
Gardeners	11	12:30 PM-09:15 PM
Nurses	01	09:00 AM- 04:30 PM
others (specify) Office Attendant	8	12:30 PM-09:15 PM

POPULATION WITH CATEGORY

2.3 Commercial activities

Category	NUMBER	OPERATING HOURS
Shops	02	12:30 PM-09:15 PM
Bank	01	8:00AM-4:00 PM
Canteen/cafeteria	01	8:00AM-4:00 PM



GREEN SPACE IN COLLEGE



GREEN SPACES AND LANDSCAPE

Category	Number
Tree	171
Shrubs	1037
Foliage	820
winter ornamental plants	1037
summer ornamental plants	350
bulbous plants	251
cacti and succulents	86
others (Hanging Basket)	13

3. ENERGY AUDIT



3.1 ENERGY CONSUMPTION AND SOURCES

Zakir Husain Delhi College (E) made a significant move towards sustainability by signing a power purchase agreement with Azure Power on May 9, 2016. As per the terms, Azure Power installed a solar photovoltaic power plant on the college's roof with a capacity of 50.22 KW, connected to the grid system. The college agreed to purchase electricity generated by this system at a rate of Rs. 5.80 per unit for the next 25 years, with the cost remaining escalation free.

This initiative aligns with the college's aim to reduce dependency on grid electricity and promote green energy solutions. By leveraging solar energy through both self-sourcing and the power purchase agreement with Azure Power, Zakir Husain Delhi College (E) demonstrates a commitment to sustainability and environmental stewardship. The ratio of electricity generated by the solar power plant for the evening college is below in table.

Table 3.1 Electricity units ratio generated by the solar power plant

Sr. No.	Time Period	No. of Units Produced
1	15.06.2021 to 13.07.2021	2390.80
2	13.07.2021 to 09.08.2021	1460.40
3	09.08.2021 to 03.09.2021	1648.80
4	03.09.2021 to 05.10.2021	1995.20
5	05.10.2021 to 11.11.2021	2239.60
6	11.11.2021 to 01.12.2021	843.20
7	01.12.2021 to 04.01.2022	662.40
8	04.01.2021 to 01.02.2022	760.40
9	01.02.2022 to 02.03.2022	1779.20
10	02.03.2022 to 04.04.2022	2500.00
11	04.04.2022 to 07.05.2022	1842.00
12	07.05.2022 to 01.06.2022	1706.80

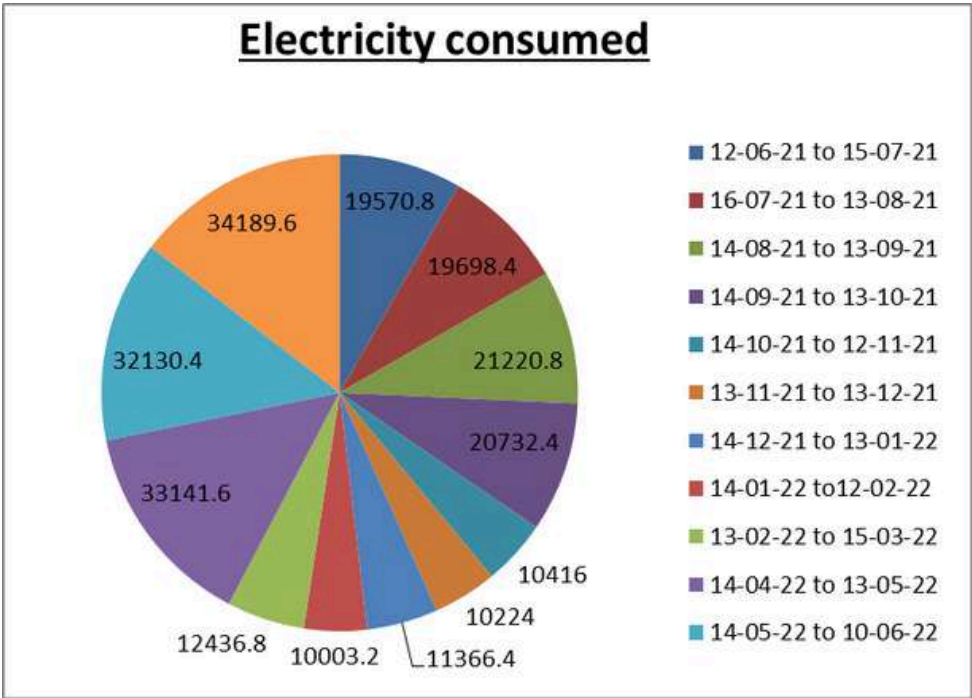
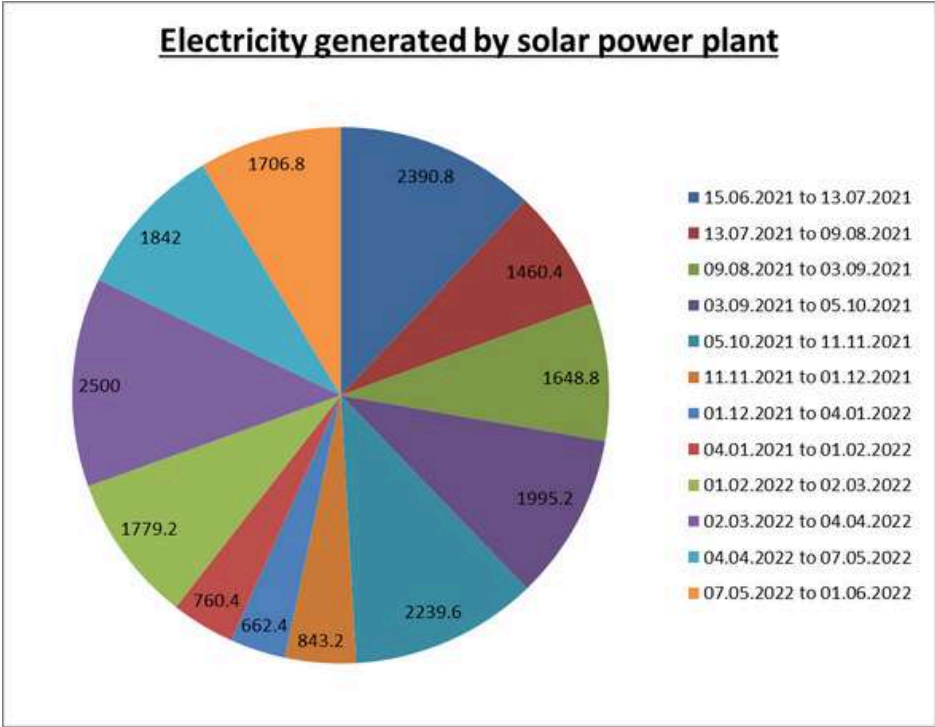
3.2 ENERGY CONSUMPTION AND SOURCES

Beyond the monetary savings, the college's green energy endeavor will lead to a significant environmental impact. By mitigating the release of approximately 693.2 tonnes of carbon dioxide into the atmosphere annually, the college is contributing to environmental sustainability equivalent to planting 1109 teak trees for their entire life cycle.

Table 3.2 Electricity units consumed

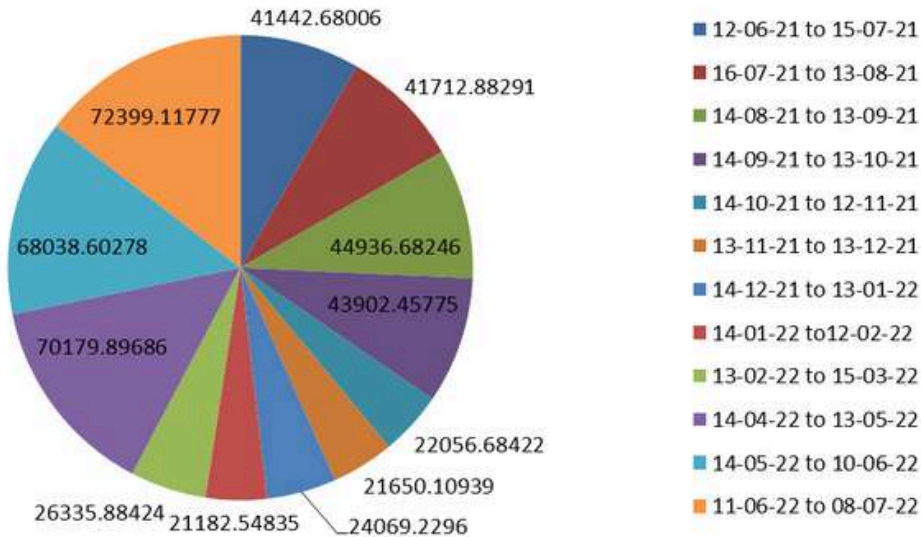
Sr. No.		Time Period	No. of Units Consumed
1		12-06-21 to 15-07-21	19570.80
2		16-07-21 to 13-08-21	19698.40
3		14-08-21 to 13-09-21	21220.80
4		14-09-21 to 13-10-21	20732.40
5		14-10-21 to 12-11-21	10416.00
6		13-11-21 to 13-12-21	10224.00
7		14-12-21 to 13-01-22	11366.40
8		14-01-22 to 12-02-22	10003.20
9		13-02-22 to 15-03-22	12436.80
10		14-04-22 to 13-05-22	33141.60
11		14-05-22 to 10-06-22	32130.40
12		11-06-22 to 08-07-22	34189.60

3.3 ELECTRICITY CONSUMPTION AND GENERATION

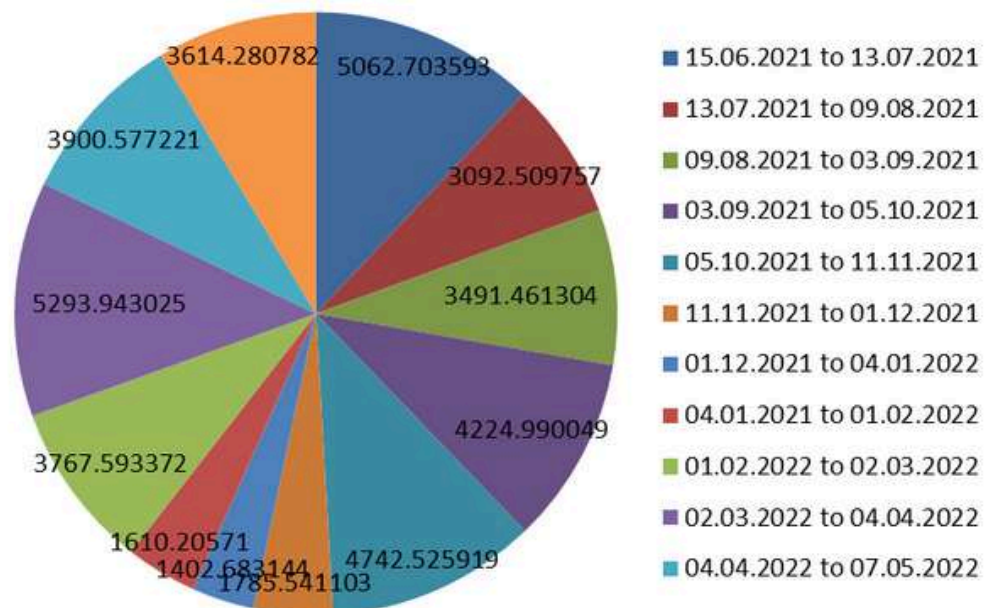


3.4 CO₂ EMISSION AND REDUCTION

CO₂ emission due to Electricity consumption



CO₂ reduction by solar power plant



3.5 ENERGY EFFICIENCY MEASURES IMPLEMENTED BY COLLEGE

Zakir Husain Delhi College (E) has implemented a range of energy conservation measures aimed at shifting towards greater energy efficiency and environmental friendliness. Here's a summary of these initiatives:

- **Renewable energy sources:** ZHDC has made an agreement with Azure Power to installed a solar photovoltaic power plant on the college's roof with a capacity of 50.22 KW, connected to the grid system. Installation of solar panels enables the generation of renewable energy on-site, reducing dependence on fossil fuels and lowering carbon emissions.
- **Behavioral changes:** ZHDC management encourages Students and staff to adopt energy-saving habits, such as turning off lights and unplugging electronics when not in use. These simple behavioral changes contribute significantly to energy conservation efforts.
- **Lighting upgrades:** The college has upgraded to energy-efficient lighting, such as LED bulbs, which consume less energy and have a longer lifespan compared to traditional lighting systems.
- **Energy-efficient appliances:** Older, less energy-efficient appliances have been replaced with newer models that consume less energy, contributing to overall energy savings.
- **Promotion of energy conservation:** The college organizes seminars, invited lectures, and other events to educate students, faculty, and staff about the importance of energy conservation. Encouraging individuals to take simple steps like turning off lights further promotes energy efficiency.

USE OF SOLAR POWER AT ZHDC



USE OF SOLAR POWER AT ZHDC



3.6 RECOMMENDATIONS FOR ENERGY CONSERVATION

The energy audit conducted at **Zakir Husain Delhi College (E)** has provided valuable insights into areas where improvements can be made to enhance energy efficiency and sustainability on campus. Through careful analysis and assessment, the following recommendations have been identified to optimize energy usage and reduce environmental impact:

- **Appliance Replacement:** Identify and replace inefficient appliances in common areas, dormitories, and faculty offices. Consider ENERGY STAR-rated appliances for maximum energy savings.
- **Renewable Energy Integration:** Expand renewable energy installations where feasible and explore options for integrating other renewable energy sources such as wind or geothermal energy.
- **Awareness Campaigns:** Continue to promote energy-saving behaviors through awareness campaigns, workshops, and incentives. Implement feedback mechanisms to track and reward energy-saving efforts.
- **Energy Management Systems (EMS):** Implement an EMS to centrally monitor and control HVAC, lighting, and other energy-consuming systems. Utilize data analytics to identify opportunities for further energy optimization.
- **Lighting Upgrades:** Ensure all lighting fixtures are upgraded to LED technology, including common areas, classrooms, and outdoor lighting. Consider implementing lighting controls such as occupancy sensors and timers to further reduce energy consumption.
- **HVAC System Optimization:** Conduct regular maintenance of HVAC equipment to ensure optimal performance. Consider installing programmable thermostats, zone controls, and energy recovery ventilation systems for additional energy savings.

4.0 WATER AUDIT



4.1 WATER AND WASTE WATER AUDIT

Water is indeed a vital resource for sustaining life and supporting various activities across the globe. The increasing demand for freshwater coupled with factors like population growth, urbanization, and industrialization has intensified the issue of water scarcity in many regions. Conducting water and wastewater audits is an effective approach to manage water resources efficiently. By thoroughly assessing usage patterns, identifying leaks, analyzing water quality, and evaluating wastewater treatment processes, audits can pinpoint areas where improvements can be made to conserve water and reduce costs.

Promoting awareness about the importance of water conservation and encouraging the adoption of efficient water management practices are crucial steps in addressing the challenges posed by water scarcity. It's essential for stakeholders at all levels to collaborate and take proactive measures to ensure the availability of clean and safe water for current and future generations.

The Central Ground Water Authority (CGWA) in India provides guidelines for water usage, including for colleges and institutions. It emphasizes the importance of efficient water management practices to conserve groundwater resources and ensure sustainability. For communities with populations ranging from 20,000 to 100,000 the recommended water requirement per person per day, together with a full flushing system, falls within the range of 100 to 135 liters. For larger communities with populations above 100,000, the recommended water requirement per person per day, also with a full flushing system, is within the range of 150 to 200 liters.

These guidelines take into account factors such as population size and the presence of water-intensive systems like full flushing systems, which are commonly found in urban areas and larger communities.

By adhering to these standards and implementing water-efficient technologies and practices, communities can ensure sustainable water management, minimize wastage, and meet the needs of their residents effectively.

4.2 WATER CONSERVATION AND SOURCES

ZHDC, Evening has comprehensive water management system to meet its water needs efficiently.

1. **Water Sources:** The college relies on two main water sources:

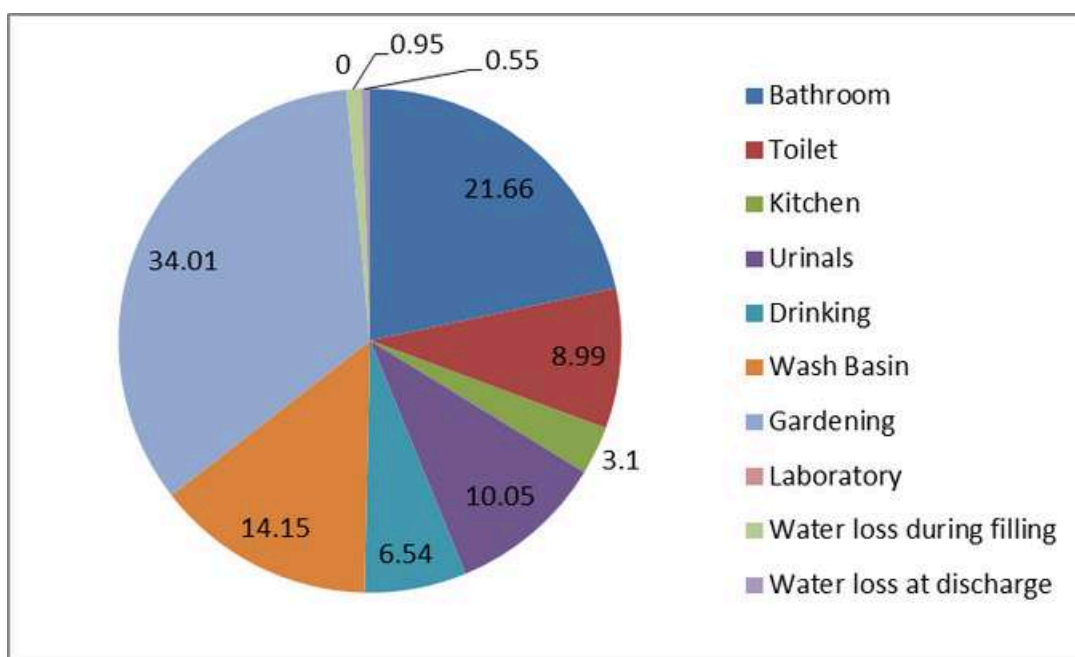
- Water supplied from Delhi Jal Board.
- Self-reliant water obtained from a borewell system installed on campus.

2. **Water Pumping System:** Multiple water pumps, ranging from 1 HP to 5 HP, are installed on the campus to fill overhead storage tanks. These tanks have a total capacity of 80,000 litres for the main storage tank and an additional 31,000 litres across cemented and plastic tanks.

3. **Water Usage:**

- The college consumes an average of approximately 146,000 litres of water per day for the main building and science blocks.
- This consumption includes fulfilling the demands of various facilities and activities on campus, including academic buildings, laboratories, washrooms, kitchens, and potentially recreational or residential areas.

4. **Gardening Demand:** The borewell submersible pump is specifically utilized to meet the watering needs of the campus's gardens, indicating a separate allocation for landscaping and green spaces.

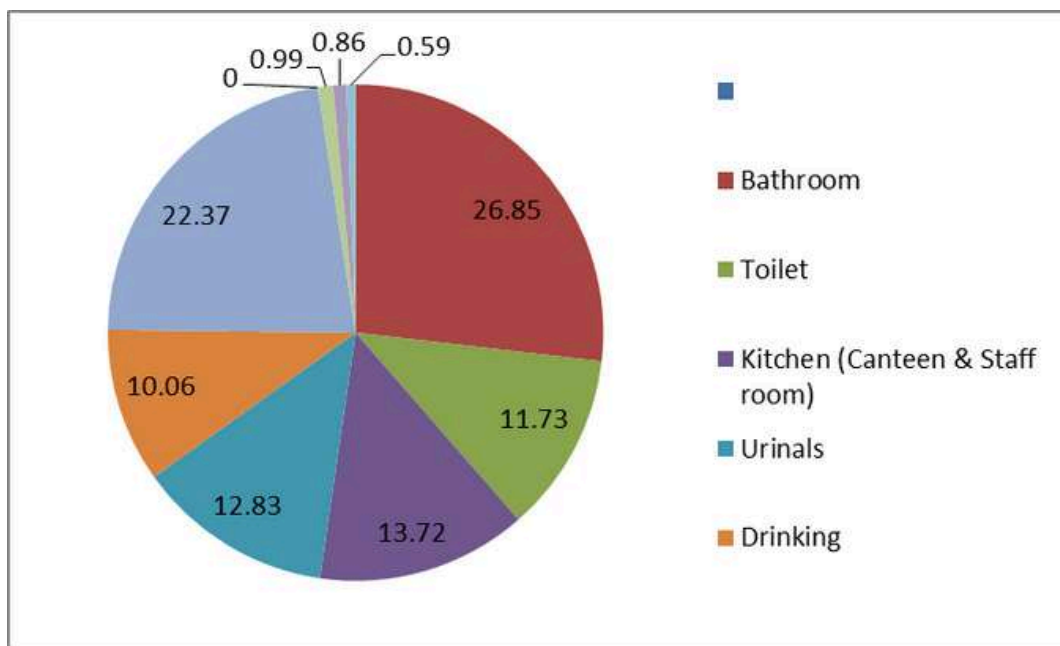


4.1 YEARLY AVERAGE WATER CONSUMPTION - MAIN BUILDING

TABLE 4.1: YEARLY AVERAGE WATER CONSUMPTION - MAIN BUILDING

Sr. No.	Sector	Total Daily Use (liter)	Total Monthly use (Litres)	Total yearly use (kl)	Percentage %
1	Bathroom	8,940.00	214560	2574720	21.66
2	Toilet	3,710.00	89040	1068480	8.99
3	Kitchen	1,280.00	30720	368640	3.10
4	Urinals	4,150.00	99600	1195200	10.05
5	Drinking	2,700.00	64800	777600	6.54
6	Wash Basin	5,840.00	140160	1681920	14.15
7	Gardening	14,040.00	336960	4043520	34.01
8	Laboratory	0	0	0	0.00
9	Water loss during filling	394	9456	113472	0.95
10	Water loss at discharge	226	5424	65088	0.55
11	Total	41,280.00	990720	11888640	100.00

The largest portion of water consumption, constituting 34.01%, is attributed to gardening, suggesting that outdoor water usage for gardening purposes is a significant contributor to overall consumption. Following this, the bathroom sector utilizes 21.66% of the water, indicating a substantial portion of indoor water use for personal hygiene activities. Additionally, wash basins account for 14.15% of water usage, further emphasizing the importance of water in personal care and hygiene routines. Urinals and toilets contribute 10.05% and 8.99%, respectively, indicating the significance of water in sanitation infrastructure. Notably, the kitchen sector consumes a relatively smaller percentage of water at 3.1%, suggesting that water usage in cooking and cleaning activities within the kitchen is comparatively lower. Furthermore, drinking water accounts for 6.54%, highlighting the importance of access to clean drinking water. It's worth noting the minimal water loss during filling (0.95%) and at discharge (0.55%), indicating efficient water management practices in these areas.



4.2 YEARLY AVERAGE WATER CONSUMPTION - SCIENCE BUILDING

TABLE 4.2: YEARLY AVERAGE WATER CONSUMPTION - SCIENCE BUILDING

Sr. No.	Sector	Total Daily Use (liter)	Total Monthly use (Litres)	Total yearly use (kl)	Percentage (%)
1	Bathroom	6750	162000	1944000	26.85
2	Toilet	2948	70752	849024	11.73
3	Kitchen (Canteen & Staff room)	3450	82800	993600	13.72
4	Urinals	3225	77400	928800	12.83
5	Drinking	2530	60720	728640	10.06
6	Wash Basin	5625	135000	1620000	22.37
7	Gardening	0	0	0	0.00
8	Laboratory	250	6000	72000	0.99
9	Water loss during filling	216	5184	62208	0.86
10	Water loss at discharge	147.2	3532.8	42393.6	0.59
Total		25141.2	603388.8	7240666	100.00

The largest proportion of water consumption is attributed to wash basins, accounting for a significant 22.37% of the total. This suggests a considerable reliance on water for handwashing and other personal hygiene activities. Following wash basins, the next notable sectors include the bathroom and kitchen (canteen & staff room), which respectively consume 26.85% and 13.72% of the water. This indicates substantial usage for bathing, showering, and other bathroom-related tasks, as well as for cooking and cleaning in the kitchen areas.

Additionally, urinals and toilets contribute 12.83% and 11.73% of the water usage, underscoring the importance of water in sanitation facilities. Drinking water accounts for 10.06% of the total, highlighting its significance in providing potable water access. Notably, there's minimal allocation for gardening and laboratory purposes, with 0% recorded usage for both sectors. Lastly, there are small percentages assigned to water loss during filling and discharge, at 0.86% and 0.59% respectively, indicating efforts to minimize wastage within the water distribution system.

4.3 SUSTAINABLE WATER PRACTICES (SWP):

Understanding the specific areas of water consumption within each building of Zakir Husain Delhi College is essential for implementing targeted water conservation strategies. Based on the observed annual water consumption patterns:

1. Main Building:

- Gardening emerges as the major water consumption area.
- This suggests that efforts to optimize irrigation systems, use drought-resistant plants, and implement water-saving landscaping practices could help reduce water usage in this area while maintaining green spaces.

•

2. Science Building:

- Bathrooms are identified as the major water-consuming area.
- Given that the science building encompasses various administrative, academic, and support facilities like administration offices, library, principal office, committee room, bank, and staff rooms, optimizing water fixtures, promoting water-saving behaviors, and conducting regular maintenance to address leaks and inefficiencies in bathroom facilities can contribute to reducing water consumption.

4.4 RECOMMENDATIONS:

Here are some recommendations for the conservation and effective use of water for college:

1. **Upgrade Water-Efficient Fixtures:** Installing low-flow toilets and aerated showerheads can significantly reduce water consumption without sacrificing functionality.
2. **Training and Awareness Programs:** Educating students, teaching staff, and non-teaching staff about water conservation practices is crucial. These programs can help instill a culture of water conservation throughout the college community.
3. **Automated or Touch-less Faucets:** Installing touch-less faucets can minimize water wastage and improve hygiene, particularly in high-traffic areas like washbasins and kitchens.
4. **Proper Maintenance of Plumbing Systems:** Regular maintenance of pipes, overhead tanks, and plumbing systems can help identify and fix leaks promptly, reducing water wastage.
5. **Water Recycling Systems:** Implementing water recycling systems, both small-scale for practical class sessions and larger-scale for laboratory use, can effectively reuse water and minimize wastage.
6. **Common Distillation Plant:** Designing a common distillation plant for the Science Department can optimize water usage in laboratory activities that require distilled water, reducing overall water wastage.
7. **Adopting Green Chemistry Principles:** Implementing green chemistry practices in the chemistry laboratory can reduce chemical waste formation, contributing to both water conservation and environmental sustainability.
8. **Sewage Treatment Plant (STP):** Installing an STP on campus can help treat wastewater for reuse in various college activities, further reducing water consumption and promoting sustainability.

Overall, these initiatives form a holistic approach to water conservation and management at the college, addressing various aspects from infrastructure upgrades to educational programs and sustainable practices in laboratory activities.

5.0 WASTE AUDIT

5.1 TYPES AND QUANTITIES OF WASTE GENERATED

There are different type of waste generated at college level:

1. Paper waste: Paper waste indeed constitutes a significant portion of the total waste generated on college campuses. With classrooms, offices, and libraries being primary sources of paper consumption.
2. Plastic waste: Plastic waste is indeed a significant component of the waste generated on college campuses.
3. Electronic waste: e-waste is a growing concern for college campuses due to the rapid turnover of technology and electronic devices.
4. Hazardous waste: Hazardous waste, such as chemicals and medical waste, accounts for a small percentage of the total waste generated in a college campus. However, it is important to handle and dispose of this type of waste carefully.

It is important for colleges and universities to implement waste reduction strategies, such as recycling and composting programs, to reduce the amount of waste generated on campus and minimise their environmental impact.

5.2 INITIATIVE BY COLLEGE FOR WASTE MANAGEMENT

ZHDC, Evening is doing a commendable job in waste management through various initiatives like vermicomposting and paper recycling.

1. Vermicompost Unit:

- The establishment of a vermicompost unit on your college campus reflects a forward-thinking approach to waste management and sustainability. Vermicomposting indeed harnesses the synergistic action of earthworms and microorganisms to rapidly break down organic waste into nutrient-rich compost. Here are some key points to highlight based on the information provided:

2. Waste Segregation:

- It's excellent to hear that your college has been dedicated to waste segregation for such a long time. This practice plays a significant role in effective waste management and environmental sustainability.

3. Paper Recycling Unit:

- It's wonderful to hear that your college has taken proactive steps to minimize paper usage and promote sustainability through the adoption of electronic communication methods and paper reuse.

5.3 RECOMMENDATION

Here are some recommendations for the waste audit:

1. Double-Sided Paper Printing:

- Encouraging double-sided printing for internal documents, notes, and photocopying is an effective way to reduce paper usage and minimize waste. This practice conserves paper resources and reduces the need for additional printing supplies.

2. Pulping Confidential Papers:

- Sending important and confidential papers for pulping after their validity ensures secure disposal while also diverting them from landfills. Pulping breaks down paper fibers for recycling into new paper products, contributing to a closed-loop recycling system.

3. Reducing Waste from College Staff Offices:

- Implementing measures to reduce waste generated from college staff offices can involve promoting paperless practices, encouraging reuse of office supplies, and providing training on waste reduction strategies.
- Additionally, setting targets for waste reduction and monitoring progress can help track the effectiveness of these initiatives over time.

4. Utilizing Recycling Facilities:

- Making full use of recycling facilities provided by the city municipality and private suppliers demonstrates a commitment to maximizing resource recovery and minimizing waste sent to landfills.
- By recycling materials such as glass, cans, paper, plastic bottles, batteries, print cartridges, cardboard, and furniture, the college contributes to environmental conservation and sustainable resource management.

5. Accessible Collection Points:

- Providing sufficient, accessible, and well-publicized collection points for recyclable waste is essential for encouraging participation and ensuring the success of recycling efforts.
- Clearly allocating responsibility for recycling and regularly maintaining collection points helps streamline waste management processes and ensures efficient recycling practices.

By implementing these measures, your college demonstrates a proactive approach to waste reduction and recycling, contributing to environmental sustainability and responsible resource management. Continued efforts to promote waste reduction strategies and maximize recycling opportunities will further enhance the college's environmental impact and set a positive example for the community.

6.0

**GLIMPSES
OF
ENVIRONMENT
RELATED
ACTIVITIES
CONDUCTED IN
COLLEGE**

GLIMPSES OF ENVIRONMENT RELATED ACTIVITIES CONDUCTED IN COLLEGE

**Zakir Husain Delhi College (Evening)
Eco-Club and EVS Society**
organising
**Inter College
Environmental Quiz Competition**
(Based on the Syllabus of AECC Environmental Studies)
12 March 2019

- Last Date of Registration: 11 March 2019
- Only for undergraduate students
- Time: 05:00 PM

**Inter College
Paper Presentation Competition**
13 March 2019

Theme:
Ecotourism in India
Wildlife Conservation
Environmental Laws and Pollution in Delhi
Role of NGT in abatement of air pollution in Delhi
Developmental Policies and Tribal Displacement in India

Cash prize
1st Position: 3000
2nd Position: 2000
3rd Position: 1000

- Last Date of Registration: 11 March 2019
- Only for undergraduate students
- Word limit: 2000 words, Font: Times New Roman, size:12
- Participants have to submit hard copy of their paper just after presentation.
- Time: 5:00 PM

Register yourself at: <https://goo.gl/forms/qFhL3iS2qRHTXvCg1>

Dr. Sanjay Kumar
Convener & President (Eco Club & EVS Society)
For any Query Contact: Mr. Tridev; 9654520325
Student Member: Amit Kumar (President, Eco-Club); 7277706377

**Department of Environmental Studies
Zakir Husain Delhi College (Evening)
University of Delhi**

**National Seminar on
“Sparsh Ganga: Conserving Water Resources
through Community Involvement”**
25 October, 2018
(Venue: Salman Ghani Hashmi Auditorium)

Seminar Programme

4:00 pm – 4:30 pm Introductory Note: Welcome Address:	Inaugural Function Dr. Sanjay Kumar, Convener Dr. Masroor Ahmad Beg, Principal
4:30 pm – 5:00 pm	Shri Kalyan Singh Rawat Maiti (Famous Environmentalist and founder of Maiti Andolan)
5:00 pm – 5:30 pm	Ms. Arushi Nishank (Internationally acclaimed Indian classical Kathak dancer, entrepreneur, Film Producer and a poetess)
5:30 pm – 6:00 pm	Dr. Rajesh Naithani (Ex-Pro-Vice Chancellor, Bharath University)
6:00 pm – 6:30 pm	Vote of Thanks

Patron:
Dr. Masroor Ahmad Beg (Principal)
Convener:
Dr. Sanjay Kumar

For further Queries Contact: Mr. Tridev – 9654520325
College Website: www.zakirhusainpgce.in



GLIMPSES OF ENVIRONMENT RELATED ACTIVITIES CONDUCTED IN COLLEGE



Zakir Husain Delhi Collage (Evening)
University of Delhi

Celebrates

SAKSHAM

(Oil Conservation Awareness Month from 15th Jan – 15th Feb, 2020)

on

13 February 2020



As you are aware, Ministry of Petroleum, Government of India has called for a month long observance of SAKSHAM for conservation awareness efforts. PCRA would undertake a month long mass awareness drive seeking citizens to participate in fuel conservation for health & environment protection and simultaneously help in reducing India's dependency on import of crude oil.

We are organizing Poster making and debate Competition for which all the participants will receive participation certificate and the winners will be given prizes by Shri Dharmendra Pradhan - Minister of Petroleum and Natural Gas, Minister of Steel at the Saksham Finale on 15th Feb, 2020 at Scope Auditorium, Lodhi Road, New Delhi.

Debate Competition

Topic: "Indhan adhik na Khapayein, Aao Paryavaran bachayein"

Time: 5 Minutes

Language: English/Hindi

Poster Competition

Topic: Oil Conservation

Paper Size: A3 size

Inviting students to express creativity and communication skills to make this national mission a great success!

Dr. Sanjay Kumar
Coordinator
Eco-Club
Mob. 9810812958

Mr. Tridev
Coordinator
Eco-Club
Mob. 9654520325

Ms. Nivedita Banerjee
 IVY Public Relation & Communication Management
 Mob. 9810603196



संरक्षण क्षमता महोत्सव
सक्षम-2020

Indhan Adhik Na Khapayein, Aao Paryavaran Bachayein

Poster & Debate Competition, New Delhi.

We take this opportunity to appreciate all the students of "Zakir Husain Delhi Collage (Evening)" for active participation in the Debate & Poster making Competition on 13th February, 2020. Each participant have made sincere and significant contribution through their creativity and communication skills to make this national mission a great success! Our gratitude and thanks to the team of "Zakir Husain Delhi Collage (Evening)" for coordination and cooperation in the success of the mission SAKSHAM.

We invite the winners and the Profers to attend the Saksham valedictory function on 15th Feb, 2020 at Scope Convention Centre, Core 8, Lodhi Road, New Delhi. The winners will be given prizes by senior officials of Petroleum and Natural Gas companies.



Congratulations to the Winners!

DEBATE COMPETITION :

- Sandra Singh – First Prize
- Shubham Kumar – Second Prize
- Ahuliah – Third Prize
- Satyam Yadav – Third Prize

POSTER COMPETITION :

- Muskan Kumari – First Prize
- Bijoy Prasad – Second Prize
- Lalita – Second Prize
- Palhi Chaturvedi – Third Prize



 **Zakir Husain Delhi College (Evening)**
University of Delhi

On the occasion of
World Environment Day
05 June 2020
Cordially invites you to webinar on

Rules and Tools for Redesigning the Earth
Date & Time: 5th June, 2020, from 04:00 PM to 06:00 PM

Speaker



Prof. Radhey Shyam Sharma
Professor, Department of Environmental Studies
University of Delhi

Dr. Masroor Ahmad Beg
(Principal)



Dr. Sanjay Kumar
(Convener, EVS Department)

Dr. Madhumita Chakraborty
Convener, IQAC

Zoom link to join the webinar:
<https://us02web.zoom.us/j/83396798063?pwd=aG5pMFp4SFRlMzNMZm1RSDVsdjVBbQQT09>

Organised by
Department of Environmental Studies & Eco-club
In association with
Internal Quality Assurance Cell

Programme Coordinator
Mr. Tridev, Assistant Professor, Department of Environmental Studies


 Zakir Husain Delhi College (Evening)
University of Delhi 

Department of Political Science & Eco-club
Cordially invites you to webinar on

Covid-19: A Pandemic of Mistreated Biodiversity

Date & Time: 20th May 2020, from 04:00 PM to 06:00 PM

Speaker



Prof. PK Joshi
Professor, School of Environmental Sciences &
Chairperson, Special Center for Disaster Research, JNU, New Delhi

Dr. Masroor Ahmad Beg (Principal) **Dr. Sanjay Kumar** (Convener)

Google meet link to join the webinar:
<https://meet.google.com/fef-rbsm-xjo>

Programme Coordinator

Mr. Shashank Tiwari
Assistant Professor
Department of Political Science

Mr. Trivedi
Assistant Professor
Department of Environmental Studies

GLIMPSES OF ENVIRONMENT RELATED ACTIVITIES CONDUCTED IN COLLEGE

Zakir Husain Delhi College (Evening)
University of Delhi

Celebrates

Saksham 2021
"GREEN AND CLEAN ENERGY"
DEBATE COMPETITION
ON
"Achieving cent percent clean energy is myth or reality of India?"

Platform- Google Meet
Date- 4th February, 2021

Dr. Masroor Ahmad Beg (Principal)
Dr. Sanjay Kumar (Convener, EVS Department)

Organised by
Department of Environmental Studies & Eco-club

Organizing Committee
Dr. Supreet Kaur
Mr. Tridev
Dr. Chandan Gupta

For Further Queries Contact:
Sanya Kathpalia (9870144719) Coordinator
Danish Sayeed (7261858905) Coordinator

ZAKIR HUSAIN DELHI COLLEGE (EVENING)
UNIVERSITY OF DELHI

Eco-Club
and
DEPARTMENT OF ENVIRONMENTAL STUDIES
organises

SAKSHAM'21
POSTER MAKING COMPETITION
Topic- 'CLEAN AND GREEN ENERGY'

last date of registration and submission- 01st Feb'21

DR. MASROOR AHMAD BEG (PRINCIPAL)
DR. SANJAY KUMAR (CONVENOR, EVS DEPARTMENT)

ORGANISING COMMITTEE
DR. CHANDAN GUPTA
DR. SUPREET KAUR
MR. TRIDEV

FOR MORE DETAILS CONTACT
CHITRANGDA SINGH (VICE- PRESIDENT)
8955965643

ZAKIR HUSAIN DELHI COLLEGE (EVENING)
UNIVERSITY OF DELHI

ECO-CLUB
Presents

PARIDRISHYA'22
THE ANNUAL ECO FEST
MARCH 10 TO 12

HIGHLIGHTS:
QUIZ COMPETITION
CREATIVE WRITING
BIODIVERSITY PARK TRIP
SPEECH COMPETITION
DOCUMENTRY SCREENING

* Free Refreshments and Snacks in all our events!

PROF. MASROOR AHMAD BEG (PRINCIPAL)
DR. SUPREET KAUR (DEPT. OF COMMERCE)

MOHD. TARIQ SAYEED (CONVENER)
DR. ANKUSH BHARGAVA (DEPT. OF COMMERCE)

MR. TRIDEV (COORDINATOR)
DR. AMREEN (DEPT. OF POL. SCIENCE)

ORGANIZING COMMITTEE

SANDRA SINGH (PRESIDENT OF GANDHI STUDY CENTRE)
ADESH SHANKAR (SECRETARY OF GSG)

HARSHIT GARG (PRESIDENT OF ECO-CLUB)
RUSHALI MISHRA (JOINT SECRETARY, GSG)

SHREYA JHA (VICE PRESIDENT OF ECO-CLUB)
SBIJAN ANAND (JOINT SECRETARY, GSG)

GLIMPSES OF ENVIRONMENT RELATED ACTIVITIES CONDUCTED IN COLLEGE





ZAKIR HUSAIN DELHI COLLEGE (EVENING)
UNIVERSITY OF DELHI

ECO-CLUB
THE ENVIRONMENTAL SOCIETY

PRESENTS

PANCHTATVA
THE ANNUAL ECO FEST



DAY 1, DATE: 21st MARCH 2023

INAUGURAL: LAMP LIGHTING CEREMONY
Time: 03:00 PM onwards
Venue: Infront of academic block

SEMI-CLASSICAL DANCE PERFORMANCE
Time: 03:30 PM onwards
Venue: Infront of academic block

LOKCHITRA: POT PAINTING COMPETITION
Time: 04:00 PM onwards
Venue: Adjacent to Science block

TIE-DYE COMPETITION
Time: 05:00 PM onwards
Venue: Infront of auditorium

WESTERN DANCE PERFORMANCE
Time: 06:00 PM onwards
Venue: Infront of academic block

ALFAAZ: SHAYARI COMPETITION
Time: 06:30 PM onwards
Venue: Infront of academic block

DAY 2, DATE: 22nd MARCH 2023

NUKKAD NATAK
Time: 03:30 PM onwards
Venue: Infront of academic block

TALENT HUNT COMPETITION
• Dance Competition
• Singing Competition
• Stand-up Comedy
• Mono Act
Time: 04:00 PM onwards
Venue: Infront of academic block (open area)

PANCHTATVA: FASHION SHOW
Time: 06:00 PM onwards
Venue: Infront of academic block

GROUP DANCE PERFORMANCE
Time: 06:30 PM onwards
Venue: Infront of academic block

AWARD DISTRIBUTION
Time: 07:00 PM onwards
Venue: Infront of academic block

MAIN ATTRACTION: FOOD, ACCESSORIES, FACE PAINTING, GAMES AND MANY OTHER STALLS

DR. TARIQ SAYEED
CONVENER

PROF. (DR.) MASROOR AHAMAD BEG
PROFESSOR - PRINCIPAL

DR. SMITA SUNDARAM
TEACHER IN-CHARGE

ARBIN KR THAKUR
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9910888019

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SAURABH BHARTI
(SECRETARY)
8651124721

ANUSHKA SINGH
(HEAD STUDENT CO-ORDINATOR)
9310674109

ALISHA KHAN
(JOINT SECRETARY)
7054915282

 @ecoclubzhdce

7.0 SUMMARY & CONCLUSION

green audit serves as a crucial tool for evaluating the equilibrium of natural resources and ensuring their prudent utilization. It involves scrutinizing institutional practices to ascertain their eco-friendliness and sustainability. The process encompasses several steps, including identifying, quantifying, documenting, reporting, and monitoring environmentally significant components within a defined area. Through green auditing, institutions can gauge their environmental impact, identify areas for improvement, and adopt measures to promote sustainability and responsible resource management.

Conducting a Green Audit at Zakir Husain Delhi College in the academic year 2021-22 was a commendable initiative aimed at evaluating the college's adherence to eco-friendly practices and assessing its progress towards sustainable development.

Here are some key recommendations of green audit:

- 1.Enhancing waste management: Implementing strategies to reduce waste generation, promote recycling, and minimize single-use plastics.
- 2.Improving energy efficiency: Adopting energy-efficient technologies, conducting energy audits, and promoting energy conservation among students and staff.
- 3.Enhancing water conservation: Implementing water-saving measures such as rainwater harvesting and installing water-efficient fixtures.
- 4.Promoting sustainable transportation: Encouraging the use of public transportation, carpooling, cycling, and walking to reduce carbon emissions.
- 5.Incorporating green spaces: Increasing greenery on campus through tree planting and landscaping to enhance biodiversity and air quality.
- 6.Educating stakeholders: Conducting awareness campaigns, workshops, and seminars to educate students, faculty, and staff about environmental conservation.
- 7.Green Building Practices: Incorporating green building practices into construction and renovation projects is key to reducing the environmental footprint of buildings and promoting sustainability
- 8.Green procurement is an essential strategy for organizations looking to reduce their environmental footprint and contribute to sustainability efforts. By adopting a green purchasing policy, college can make a significant impact on the environment while also supporting local economies and sustainable practices.

ACKNOWLEDGEMENTS

We would like to express our special thanks of gratitude to Prof. Masroor Ahmad Beg (Principal); Prof. Dr. Laljee (IQAC Coordinator) and all teaching faculties who gave us the golden opportunity to do this wonderful project (GREEN AUDIT), which also helped us to be the part of ESG (Environment Sustainability Goals) of college.

We thank you for your continued support

Contact:



**Shanti Institute for
Testing and research,
Hisar (125001)
Haryana**