Elion Technologies & Consulting Pvt Ltd Certificate

This is to certify that Green Audit at Baba Educational Society Institute of Paramedical College of Nursing, 56, Deva Road, Matiyari, Chinhat, Lucknow - 226028 was carried out for the year 2022 - 23. College has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified. The efforts taken by the college towards environment and sustainability is highly appreciated and commendable.

Audit Date - 04/09/2023 Valid Up to - 03/09/2024



Certificate Number GA/2022/BESIPCN





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Acknowledgment

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to Baba Educational Society Institute of Paramedical College of Nursing for entrusting the task of conducting green audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.

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Site Information

Name of College	Baba Educational Society Institute of Paramedical College of Nursing		
College Address	56, Deva Road, Matiyari, Chinhat, Lucknow226028.		
Execution Partner	ELION Technologies & Consulting Pvt Ltd		
Communication Address	307, 3rd Floor		
	DDA Lal Market H-Block Vikas Puri, New Delhi-110018		
Date of Audit	04 th September 2023		
Year of Audit	2022 - 2023		
Audit Participants	Mr. R K Vajpayee - Director		
nual i di aspana	Dr. Archana Chouhan - Principal		
	Mrs. Smita - Office Superintendent		
	Mr. Nitin Soni - Professor		
	Mr. Hemendra Pal Singh - Professor		
	Mrs. Manita Acharya - Professor		
	Mr. Gagan - Associate Professor		
	Mr. Abhishek Dhamaniya - Assistant professor		
	Mrs. Anjali Chaturvedi - Assistant Professor		
	Mrs. Manila Bibin - Assistant Professor		
	Mr. Ankur Sharma - Assistant Professor		
	Ms. Jyoti Shukla - Assistant Professor		
	Mrs Charul - Nursing Tutor		
	Mr. Manoj - HR		
	Mr. Sarvesh Chandra - Electrician		
	Mr. Ranjeet - Electrician		
	Mr. Darmender - Gardener		
Total Covered Area of College	2.54 Acres		
Total Green Area	1.09 Acres		

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Overview of Institute

The Baba Educational Society was established in the year 1999 in Lucknow as a Registered Society under the Societies Registration Act (Reg. No. 1064/1999).

In the year 2000, a significant step was taken by the Baba Educational Society to setup a hospital, with an aim to serve the underprivileged section of the society. Hence, the hospital was setup in a small rural hamlet called Matiyari which is a part of Chinhat, Lucknow.

Under the umbrella of this society, 'Baba Educational Society, Institute of Paramedical Sciences, school of Nursing' was established in the year 2003 with aim to uplift the medical education among females and rural background.

Currently, Baba Education society has the following academic programs running under its scope:

- Nursing College
- Paramedical College
- Pharmacy Education
- Skill India programs

The Hospital attached under Baba Educational Society is 'Baba Hospital' which is a 350 superspecialty hospital registered under CMO and offers various charitable programs in the society.

Elion Technologies and Consulting Pvt Ltd (Elion) team carried out the remote audit of premises. During the audit Elion team carried out virtual visit of entire campus i.e. classrooms, library, washrooms, staff rooms, administration department, accounts department and hostels.

List of courses offered by the institute:

- M.Sc. Nursing (2 years)
- B.Sc. Nursing (4 years)
- General Nursing and Midwifery (GNM) (3 years)
- Auxiliary nurse midwife (ANM) (2 year)



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Introduction

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyses environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students' better understanding of green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus, it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

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 institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO2 from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

Advantages of 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 that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Some main advantages of green Audit are:

- · It helps to shield the environment.
- Minimizing the waste and managing the cost.
- Authenticate conformity with the implemented laws.
- Minimizing the energy consumptions and focus on green and clean energy.
- Ambient Environmental Condition.
- Awareness and Training on Sustainability for Students.
- Awareness about environmental guidelines and duties.

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Environment Setting

The land use around the campus is mainly comprised of agriculture and green area with some temples in the near vicinity.



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Location of Baba Educational Society Institute of Paramedical College of Nursing

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Green Audit

For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Efficiency
- f) On-site Energy Generation
- g) Temperature and Acoustic Control
- h) Paper Waste Management
- i) E-Waste Management
- j) Canteen and Solid Waste Management
- k) Universal Access and Efficient Operation and Maintenance of Building
- I) Green Belt
- m) Green Programs (Green initiatives)

3.1 Good Daylight Design and Ventilation

 a) Yes, all corridors are having wide space with good ceiling height. All the corridors receive good daylight.



Corridors

b) Yes, Classrooms, Labs and Library are having high ceiling with wide doors and large windows. Windows are kept open to adequate daylight.

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Ventilated & illuminated Classrooms

 c) Classroom walls, corridors and labs are white-washed, this enhances the daylight received.



White Washed Rooms

 d) Laboratories and washrooms are provided with exhaust fans to disperse heat, fumes and odors.

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Ventilated Labs

e) Stair cases receive daylight through windows provided at various levels.

3.2 Water Efficiency:

- a) Ground water is the main source for water supply in the campus.
- b) Approximately per day 6 hours bore well is running. Every day, above 10000 Lit. of water has been used. Institute have 4 Motor Pump (Varuna, Hindustan). Total water tank is 11. Also, Institute has 6 electra solar geyser water tank.
- c) Ground water is stored in various tanks.

Location	Tank Capacity	Type (Underground/Overhead)	
Hostel Building - 5	1000 Lit. each	Over head	
Simulation Lab Building -2	1000 Lit. each	Over head	
Admin. Building- 2	500 Lit. each	Over head	
Academic Block -2	500 Lit. each	Over head	
	Geyser Water Tank	OTELER CONTROL	
Hostel Building- 6	500 Lit. each	Over head	

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Water Tanks

d) Water coolers are used for drinking purposes and are installed at various locations:

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S. No.	No. No. of water cooler Location		
1	2	Hostel Building	
2.	1	Simulation Lab Building	
3.	1	Admin. Building	
4.	3	Academic Block	
5.	1	Canteen	





Water Cooler

e) Normally mops are used for floor cleaning and hose is used for cleaning once a week.

f) Dual flushing system is provided in the washrooms NANA CHOUHAM

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Dual Flushing Is used

g) Signages are provided in washrooms emphasizing water conservation.



Signages

- Water from air conditioning unit and reject water from water purifiers is used for gardening.
- Taps used in the campus are water saving taps.

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Water efficient Taps

3.3 Wastewater Management:

a) Sewage treatment plant is not available in the campus.

3.4 Indoor Air Quality;

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutants are listed as below:

- Molds and other allergens This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.
- Carbon monoxide Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Volatile organic compounds (VOCs) VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.
- Carbon dioxide Due to human respiration
- Particulate matter Due to construction and maintenance activities

Major observations under indoor air quality are as below:

a) In classrooms the mode of ventilation is natural (through windows) and is enhanced by fans.

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b) Indoor plants are seen in the College. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits. Refer Annexure 1 for details.



Indoor Plantation

- c) Exhaust fans are provided in the washrooms and labs.
- d) Green belts have been set up in campus area.
- e) Indoor Air Quality tests have not been carried out. Same needs to be carried out at least once a year.

3.5 Energy Efficiency:

Electricity:

Power is supplied by Madhyanchal Vidyut Vitaran Nigam Ltd. The major electricity consuming equipment installed in the campus are Windows and Split AC, Submersible Motor, Motors, Desktop, Printer, Fan, Tube light, LED Bulb etc. The major consumption of electricity is in Instrumental Room.

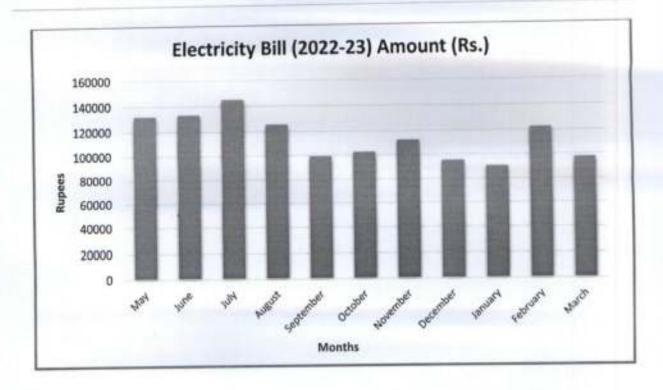
Following are details of energy consumption:

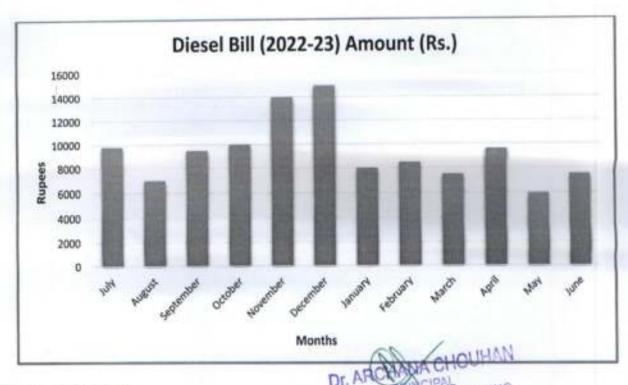
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It was observed that:

a) Campus has air conditioners which are in good working condition.

 Energy efficient LED lights are installed in some parts of the campus which helps in reducing the energy consumption.

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3.6 On Site Energy Generation (usage of LPG/ Natural Gas):

a) LPG is provided in the canteen for cooking.

 Back Up diesel generator pf capacity 45KVA, 30KVA, 12KVA is available in the campus.

Solar Power plant of capacity S0KVA is provided in the college.

3.7 Temperature and Acoustic Control

 a) White washed rooms & corridors and white/ off-white flooring improve the lighting conditions.

b) The entire campus has green area some specific locations are Herbal Garden, Near Hostel Area, Parking area, Main Gate Area and etc.



Plantation and trees

c) The campus has done tree plantation all around which helps in reducing temperature.



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d) There is no noise pollution around the campus.

3.8 Paper Waste Management:

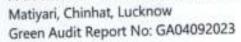
Being academic institution, waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage.

It was observed that:

- a) Old papers are sent to vendor for scrapping.
- Prints and photocopies are taken on both sides of the pages to avoid excess paper usage. Rather than photocopy, digitalization (scanning) is practiced.
- Faculty and administration staff uses old papers and envelops for internal usages as rough work, file markers, page separators etc.

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d) For communication, E-mails, Facebook, YouTube, WhatsApp and other social media have been used. Also, Institute is having software to communicate with students, staff, etc.





3.9 E-Waste Management:

- a) The campus is digitalized to a large extent. This includes classrooms, library, internal
- b) E-waste is collected and stored in respective department.

3.10 Solid Waste Management:

It was observed that:

a) Wet waste and dry waste segregation is practiced in the premises. Separate bins are provided for wet biodegradable and dry recyclable waste.



Segregated Dustbin

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b) Solid waste materials are disposed by Nagar Nigam Lucknow. Water wastes are disposed through sewer line.

3.11 Universal Access and Efficient Operation and Maintenance of Building:

It was observed that:

a) College is easily accessible. Staircase and ramps are provided for staff and students.



b) Since the entrance and staircases are 6 feet and uncluttered, it is possible to have a safe evacuation during emergency.

 Fire Extinguishers are provided for emergency. They are inspected and serviced by fire protection Service Company annually.



 d) Directional exit signages and floor markings are present on every floor of the campus.

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e) Regular Fire Safety Trainings is given to staff of the college on regular basis.

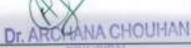
3.12 Green belt/ Landscaping:

 a) Large trees and plants are planted in the premises. Plantation also helps maintaining lower temperatures of the area.

3.13 Green Initiatives:

 College is regularly celebrating cultural programs along with Environment Day, Yoga Day, Earth Day etc.





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Plantation Day

b) Solar power plant is available in the campus.



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Solar Heaters

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Recommendations/Suggestions

For Improving Energy Consumption:

- a) Every classroom and lab with central switch board can have a diagram linking location of a tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.
- Installation of automatic lights with sensors can be considered.
- c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing. Equipment with star rating, using eco-friendly materials; with safe disposal policy to be preferred. Policy of returning equipment at the end of life span to the supplier to be preferred.
- d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.
- e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.
- f) If possible, computers should be switched off from main power connections.
- g) Notices/signages can be put up/displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use.
- h) Control sensors can help to reduce consumption by automatically dimming lights when people are not around, and keeping blinds open to use natural light & reduce energy consumption.
- Raise awareness:
 - Encourage students to help in monitoring energy consumption & implement corrective actions.
 - Integrate energy education into classroom learning.

Water Conservation:

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom, when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- d) Installation of waterless urinals can be considered to reduce water consumption.

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e) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.

Paper and other Solid Waste Reduction:

a) Inventories of all solid waste generated in the premises must be maintained.

b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.

c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared & practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.

d) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.

 e) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.

Paper usage shall be monitored to understand the impact of digitization in the facility.

Others:

- a) Water from air conditioning unit and reject water from water purifiers is not used anywhere, same should be utilized.
- b) Indoor Air Quality tests have not been carried out. Same needs to be carried out at least once a year.
- c) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- d) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.
- e) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc.). Short 30 second pop up can be displayed on computer screens when they are on standby mode. Or wallpapers informing students about environment conservation can be created.

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- f) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

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Annexure 1 – Indoor Gardening Details

Indoor plants are commonly used for their aesthetics benefits but they also have vital role reducing airborne pollution. The right choice of plants can be an excellent way of improving indoor air quality and general health. Local landscape contractor can be contacted for supply and rotation of these plants.

Plants	VOC it removes	Indoor source of VOC's	Plant care
Aloe Vera	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
Bamboo Plant	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
Chinese Evergreen	Benzene	Paints	Low maintenance plant that prefers low light conditions.



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English Ivy	Formaldehyde, Benzene, Air borne fecal matter particles	Wood, Paper products, Air borne fecal – matter particles from pests	Easy to maintain
Janet Craig	Formaldehyde, Benzene and Trichloroethylene	Paints, Plastics, Wood products etc.	Medium to low light tolerant plant. Requires little water for growth.
Golden Pothos or Devils Ivy	Formaldehyde, Cleanses air	Exhaust fumes, carpeting materials, panelling and furniture products made with particle board	Extremely easy to maintain under low to bright light conditions. Fast growing and grows wel under Fluorescent light.
	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Medium to low light tolerant plant. Requires little water for growth.
Mass Cane			



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Snake plant	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought resistant and Tolerates a variety Of light conditions. Hard to damage or kill.
	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Relatively easy to maintain. Survives in low light conditions.
Peace Lily Red-edged Dracaena	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought resistant and Tolerates a variety of light conditions. Hard to damage or kill.
Spider Plant	Formaldehyde, benzene, carbon monoxide and xylene	cooking fuels, wood products, Printing	Easy to maintain under medium to bright light condition

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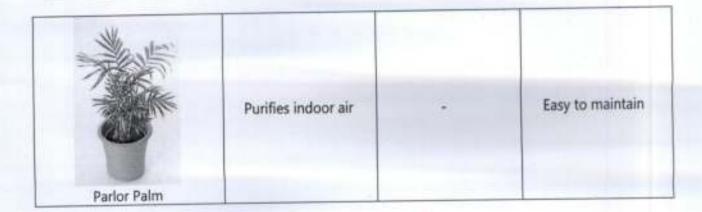
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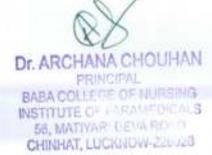
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