

 Gmail**Regarding Invitation.**

1 message

**UP State Medical Faculty** <upmedicalfaculty@upsmfac.org>

Sun, 10 Sept, 2023 at 4:01 pm

To: alok kumar srivastava &lt;drsalok@rediffmail.com&gt;

Cc: Nimit Sharma &lt;nsimit@gmail.com&gt;

Bcc: babahospital70@yahoo.in

Dear Sir/Ma'am,

As you are aware, the ratings of all nursing and paramedical institutes in UP were launched by the Hon'ble CM Shri Yogi Adityanath on 12th July 2023, wherein your institute has been rated "A".

UPSMF is proud of your institute's achievement and is organising an event to felicitate your institute for the same. This event will be graced by the presence of Hon'ble Deputy Chief Minister of UP Shri Brajesh Pathak ji on **12th September 2023, 11am onwards** at HG Khurana Hall, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow.

You are requested to kindly share the name, designation & phone number of any ONE representative from your institute who will be attending the event and receive the certificate from the Hon'ble Dy CM. Please share these details as a reply to this email latest by 2pm, 11 Sep 2023.

The representative is requested to reach the venue by 9:00am on 12th September for smooth running of the program.

Please note that we will not be able to accommodate more than 1 representative from each institute due to limited seating capacity. Your cooperation is greatly appreciated.

Please find the formal invitation attached with this email.

Regards,  
Secretary,**U.P. State Medical Faculty**

5, Sarvpalli, Mall Avenue Road,

Lucknow - 226001 (U.P.) India

Phone: (0522) 2238846, 2235964, 2235965, 3302100

Fax : (0522) 2236600

 Invitation card.pdf  
877 KB



# सादर आमंत्रण

"ए" श्रेणी के नर्सिंग एवं पैरामेडिकल संस्थानों को प्रशस्ति पत्र वितरण एवं  
"निरामया गौरव" (नर्सिंग टीचर एक्सीलेन्स एवार्ड) का शुभारम्भ

12 सितम्बर, 2023

स्थान:- एच0जी0 खुराना हाल, एस0जी0पी0जी0आई0एम0एस0, लखनऊ

सेवा में,

.....

.....

.....

प्रेषक,

किंजल सिंह, आई0एम0एस0  
अध्यक्ष, उ0प्र0 स्टेट मेडिकल फैकल्टी



## सादर आमंत्रण

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मुख्य अतिथि

**श्री बृजेश पाठक**

माननीय उप मुख्यमंत्री, चिकित्सा शिक्षा, स्वास्थ्य  
मातृ एवं शिशु कल्याण, उत्तर प्रदेश

विशिष्ट अतिथि

**श्री मयंकेश्वर शरण सिंह**

माननीय राज्यमंत्री, चिकित्सा शिक्षा, स्वास्थ्य  
मातृ एवं शिशु कल्याण, उत्तर प्रदेश

12 सितम्बर, 2023 । प्रातः 11 बजे

कार्यक्रम स्थल

एच०जी० खुराना हल, एस०जी०पी०जी०आई०एम०एस०, लखनऊ

निवेदक

**किंजल सिंह, आई०ए०एस०**

अध्यक्ष, उ०प्र० स्टेट मेडिकल फैकल्टी

## Regarding Invitation.

10 September 2023 4:01 pm

UP State Medical Facu... to 3 recipients

[Details](#)



Invitation card.pdf

1.1 MB

[Save](#)

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Reply



Reply all



Forward



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More

**BABA EDUCATION SOCIETY, INSTITUTE OF PARAMEDICAL,  
COLLEGE OF NURSING, LUCKNOW**

**REPORT ON**

**Felicitate the Institute Rated "A" by DGME & UPSMF**

**EVENT NAME :** Felicitation Event For Institute Rated "A" by QCI  
**ORGANIZER :** DGME & U.P. State Medical Faculty  
**LOCATION :** Lucknow, Uttar Pradesh.  
**DATE :** 12.09.2023 to 16.09.2023  
**TIME :** 09:00 AM – 5:30 PM  
**VENUE :** H.G. KHURANA HALL, SGPGI, LUCKNOW  
**NO. OF ATTENDEES:** 05

**EVENT BRIEF AND HIGHLIGHTS:**

Event was organized by DGME & UPSMF on Felicitate the Institute Rated "A", it is launched by Hon'ble CM Shri Yogi Adityanath . It was held on 12/09/2023 for all "A" Rated Institutes. The Department of Medical Education and Training, Govt. of Uttar Pradesh is committed to improving the quality of Nursing & Paramedical Education in the state. In this regards, several initiatives are being undertaken to streamline processes for students, institutes & faculties by U.P. State Medical Faculty. This Award is given by Hon'ble Deputy CM Shri Brajesh Pathak Ji & Shri Mayankeshwar sharan singh ji in the absence of Hon'ble CM Shri Yogi Adityanath Ji.

**Introduction**

The Department of Medical Education and Training, Govt. of Uttar Pradesh and Uttar Pradesh state Medical Faculty with co-ordination of QCI inspect the institute and award the Rating of "A" for fulfilment of all the necessary thing for nursing education.

After Vote of Thank given By Mrs. Kinjal Singh ( IAS) President U.P. State Medical Faculty, Lucknow the programme was dispersed at 02:00 PM at last day of Training.





  
**Dr. ARCHANA CHOUHAN**  
 PRINCIPAL  
 BNSA COLLEGE OF NURSING  
 INSTITUTE OF PARAMEDICALS  
 BHATINDRA CIRCLE, INDIA  
 CHIRPAT, LUCKNOW-226008

**BABA EDUCATIONAL SOCIETY INSTITUTE OF PARAMEDICALS  
COLLEGE OF NURSING, LUCKNOW**

**REPORT ON : The State XXX SNAI Biennial Conference, U.P Branch**

**Student Nurses Association of India**

**Event Name:** The State XXX SNAI Biennial Conference, U.P Branch, Student Nurses Association of India

**Organizer:** U.P Branch, Student Nurses Association of India

**Date:** 04/08/2023

**Duration:** One Day Program

**Venue:** Samarpan Institute of Nursing & Paramedical Sciences, Lucknow, UP

**Target Participants:** SNAI or TNAI Members of the 17 colleges belonging from the SNAI unit and SNAI students Participants were also present.

**Total No. of Participant Attended from Baba College of Nursing, Lucknow: 29**

**Name of Faculty:** Dr. Archana Chouhan

Mr. Nitin Soni

Mr. Hemendra Pal Singh

Mrs. Manita Acharya

Mrs. Anjali Chaturvedi

Mrs. Manila Bibin

Baba college of Nursing, Institute of Paramedical, Lucknow.

**Event Brief and Highlights:**

We, Dr. Archana Chouhan, Principal, Mr. Nitin Soni; professor, Mr. Hemendra Pal Singh; Professor, Mrs. Manita Acharya; Professor, Mrs. Anjali Chaturvedi, Assistant Professor and Mrs. Manila Bibin; Assistant Professor, from Baba college of Nursing, Institute of Paramedical, Lucknow, were attended the one day The State XXX SNAI Biennial Conference program conducted by U.P Branch, Student Nurses Association of India, on 4/08/2023 at Samarpan Institute of Nursing & Paramedical Sciences, Lucknow, UP.

On that day all the 17 SNAI units (Colleges) were gathered for the State XXX SNAI Biennial Conference, U.P. Where 13 competitions are lined up for the competitors of 17 colleges.

The SNAI Competitions were conducted successfully by the Judgement of the different prestigious Judges. Our Principal Dr. Archana Chouhan was also got the grateful opportunity from the side of the SNAI, U.P. State branch to become the Judge for the personality competition.

From the side of the Baba College of Nursing The SNAI competitors list of participants were according to the followings:

**Name of Competition: Quiz Competition (Code No 05)**

Sl. No.	Name of the Students	Batch/Year	Name of SNAI Unit
1.	Ms. Ankita	B.Sc. 3 <sup>rd</sup> Year	College of nursing, Baba Educational Society, Lucknow
2.	Ms. Jyoti	B.Sc. 3 <sup>rd</sup> Year	College of nursing, Baba Educational Society, Lucknow
3.	Ms. Manisha	B.Sc. 4 <sup>th</sup> Year	College of nursing, Baba Educational Society, Lucknow

**Name of Competition: Essay Competition Hindi (Code No 06)**

1.	MS. PRIYA DUBEY	B.Sc. 3 <sup>RD</sup> Semester	College of nursing, Baba Educational Society, Lucknow
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**Name of Competition: Essay Competition English (Code No 06)**

1.	Ms. Puja Chaudhary	B.Sc. 4 <sup>th</sup> Year	College of nursing, Baba Educational Society, Lucknow
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**Name of Competition: Extempore Speech Hindi (Code No 07)**

1.	Ms. Divyanshi Dubey	B.Sc. 2 <sup>ND</sup> SEMESTER	College of nursing, Baba Educational Society, Lucknow
----	---------------------	--------------------------------	---

**Name of Competition: Extempore Speech English (Code No 07)**

1.	Ms. Shivanshi Gupta	B.SC. 3 <sup>RD</sup> YEAR	College of nursing, Baba Educational Society, Lucknow
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**Name of Competition: Sports (Code No 08)****Sport 01: 100 Meter Race (Female)**

1.	Ms. Shivani Rawat	B.SC. 3 <sup>RD</sup> YEAR	College of nursing, Baba Educational Society, Lucknow
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**Sport 02: 400 Meters Relay Race (Female)**

1.	Ms. Jaya, Ms. Sanghpriya Ms. Shilpa & Ms. Shweta	ANM 1 <sup>ST</sup> YEAR B.SC. 4 <sup>TH</sup> YEAR	College of nursing, Baba Educational Society, Lucknow
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**Sport 03: Badminton (Female)**

1	Ms. Mansi Verma	GNM 2 <sup>ND</sup> YEAR	College of nursing, Baba Educational Society, Lucknow
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**Sport 04: Discuss Throw (Female)**

1.	Ms. Ankita	B.Sc. 3 <sup>RD</sup> YEAR	College of nursing, Baba Educational Society, Lucknow
----	------------	----------------------------	---

**Sport 05: Javelin Throw (Female)**

1.	Ms. Shivani rawat	B.Sc. 3 <sup>RD</sup> YEAR	College of nursing, Baba Educational Society, Lucknow
----	-------------------	----------------------------	---

**Name of the Competition: On-The-Spot Painting (Code no. 09)**

1.	Rekha Chouhan	B.Sc. 4 <sup>th</sup> YEAR	COLLEGE OF NURSING, BABA EDUCATIONAL SOCIETY
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**Name of the Competition: Pencil Sketch (Code no. 010)**

1.	Ms. Purnima	B.Sc. 2 <sup>nd</sup> Semester	College of nursing, Baba Educational Society, Lucknow
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**Name of the Competition: Decoration (Rangoli) (Code no. 011)**

1.	Ms. Kalpana	B.SC. 3 <sup>RD</sup> Year	College of nursing, Baba Educational Society, Lucknow
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**Name of the Competition: Mono Acting (Code no. 012)**

1.	Ms. Shivanshi Gupta	B.Sc. 3 <sup>rd</sup> Year	College of nursing, Baba Educational Society, Lucknow
----	---------------------	----------------------------	---


**Name of Competition: Poster Competition (Code No 04)**

Sl. No.	Category Code	Name of the Students	Batch/Year
1.	05/009	Ms. Pragya	B.SC. 4 <sup>TH</sup> YEAR

So accordingly, above mentioned list 29 participants were participated in The State XXX SNAI Biennial Conference, U.P Branch, Student Nurses Association of India, In which 03 Student participants got selected as a winner for their respective competitions.

List of SNAI Competition winners from Baba College of Nursing Given Below:

S. No.	Name of the Participant	Batch	Competition	Position
1	Ms. Pooja Chaudhary	B.Sc. 4th YEAR	SNAI Personality Contest	First position
2	Ms. REKHA CHOUHAN	B.Sc. 4 <sup>TH</sup> YEAR	On The Spot Painting	Second position
3	Ms. Shivani rawat	B.Sc. 3 <sup>RD</sup> YEAR	Javelin Throw	Second position

  
**PRINCIPAL**  
DR. REKHA CHOUHAN  
PRINCIPAL  
BABA COLLEGE OF NURSING  
INSTITUTE OF PARAMEDICALS  
DE, MATRANI DEVA ROAD  
GHANSHYAM, LUDHIANA-141002

- Baba Educational Society  
Institute Of Paramedicals  
College Of Nursing

Photos of The State XXX SNAI Biennial Conference, U.P. Branch  
Student Nurses Association of India



  
DR. ARCHANA CHOUHAN  
PRINCIPAL  
SNAI COLLEGE OF NURSING  
INSTITUTE OF PARAMEDICALS  
36, WASTHAN CROSS ROAD  
DEHRA DUN, UTTARANCHAL



**ENVIRONMENT AUDIT REPORT  
FOR  
BABA EDUCATIONAL SOCIETY  
INSTITUTE OF PARAMEDICAL  
COLLEGE OF NURSING**



**Elion Technologies & Consulting Private Limited**

307, 3<sup>rd</sup> Floor, DDA Lal Market, H-Block

Vikas Puri, New Delhi-110018

Contact No: +91 9013923982, +91 9013890526

Web: [www.elion.co.in](http://www.elion.co.in)



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## Acknowledgement

Elion Technologies and Consulting Pvt Ltd thanks the management of Baba Educational Society Institute of Paramedical College of Nursing for assigning this important work of Environmental Audit. We appreciate the co-operation to our team for completion of study.

For giving us necessary inputs to carry out this very vital exercise of Environment Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.



## Site Information

Name of College	Baba Educational Society Institute of Paramedical College of Nursing
College Address	56, Deva Road, Matiyari, Chinhat, Lucknow. -226028.
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 <sup>th</sup> September 2023
Year of Audit	2022 – 2023
Audit Participants	Mr. R K Vajpayee - Director 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



## Concept

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Environmental Audit, many leading companies/ institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of *Environmental Auditing* (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

The European Commission, in its proposed regulation on environmental auditing, has also adopted the ICC definition of Environmental Audit.





## Introduction

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.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance. This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.



## Overview of Campus

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 super-specialty 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)



## Audit Objectives

The broad aims/ benefits of the eco-auditing system would be –

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Reduction in resource use
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the college campus and its environment
- Enhancement of university profile
- Developing an environmental ethic and value systems in young people



## Executive Summary

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

This is second environmental audit of campus for NACC affiliation, QS Program and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.



## Environmental Audit - Questionnaire

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- I. Waste Minimization and Recycling
- II. Greening
- III. Energy Conservation
- IV. Water Conservation
- V. Clean Air
- VI. Animal Welfare
- VII. Environmental Legislative
- VIII. General Practices

Is any Environmental Audit conducted earlier?

Yes, for year 2021 - 2022

What is the total permanent population of the Campus?

	Male	Female	Total
Students	00	637	637
Teachers	05	27	32
Non-Teaching Staff	42	08	50
Sub Total	47	672	719
Approximate Number of Visitors (Per day)			30
What is the total number of working days of your campus in a year?			280

Where is the campus located?

The campus is Located in 56, Deva Road, Matiyari, Chinhat, Lucknow, U.P - 226028



### I - WASTE MINIMIZATION AND RECYCLING

1.	Does your campus generate any waste? If so, what are they?	Yes. Paper and residential (Solid and Water) waste.
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	150 Kg per day/ 4500 Kg per Month.
3.	How is the waste generated in the campus managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Paper wastes are sending to scrap. Solid waste materials are disposed by Nagar Nigam Lucknow. Water wastes are disposed through sewer line.
4.	Do you use recycled paper in campus?	No
5.	Do you use reused paper in campus?	Yes
6.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Periodically, our Nursing students are conducting health education program in community areas with posters, pamphlet, Role Play, Drama, etc to spread the message of recycling.
7.	Can you achieve zero garbage in your campus? If yes, how?	It is under progress. Institute takes initiative to reduce the maximum paper waste by printing double side, using the waste paper for another print, doing correction in computer & taking print after correction, communication through social medias and software, etc. Also, we conduct



	program on prevention of solid and water waste. But Complete Zero-garbage Not yet Achieved.
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## II – GREENING THE CAMPUS

1.	Is there a garden in your campus?	Yes																																																												
2.	Do students spend time in the garden?	Yes																																																												
3.	Total number of Plants in Campus	Trees – 370 Plants – 9050																																																												
4.	Provide some names of trees and plants in the campus.	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of The Tree</th> <th>Qty.</th> </tr> </thead> <tbody> <tr><td>1</td><td>Ashok</td><td>30</td></tr> <tr><td>2</td><td>MaltiBel</td><td>5</td></tr> <tr><td>3</td><td>Railway Bell</td><td>1</td></tr> <tr><td>4</td><td>Rubber Plant</td><td>1</td></tr> <tr><td>5</td><td>Ficusbenjamin</td><td>78</td></tr> <tr><td>6</td><td>Plam Tree</td><td>18</td></tr> <tr><td>7</td><td>Champa</td><td>18</td></tr> <tr><td>8</td><td>Australian Paam</td><td>1</td></tr> <tr><td>9</td><td>Juhi</td><td>1</td></tr> <tr><td>10</td><td>Kunda</td><td>2</td></tr> <tr><td>12</td><td>Water Plam</td><td>32</td></tr> <tr><td>13</td><td>Banana Tree</td><td>8</td></tr> <tr><td>14</td><td>Gudhal</td><td>35</td></tr> <tr><td>15</td><td>Ixora</td><td>2</td></tr> <tr><td>16</td><td>Akalifa Tree</td><td>1</td></tr> <tr><td>17</td><td>karutantra tree</td><td>2</td></tr> <tr><td>18</td><td>Dursena</td><td>5</td></tr> <tr><td>19</td><td>Gulachin</td><td>7</td></tr> <tr><td>20</td><td>champagne</td><td>1</td></tr> </tbody> </table>	S. No.	Name of The Tree	Qty.	1	Ashok	30	2	MaltiBel	5	3	Railway Bell	1	4	Rubber Plant	1	5	Ficusbenjamin	78	6	Plam Tree	18	7	Champa	18	8	Australian Paam	1	9	Juhi	1	10	Kunda	2	12	Water Plam	32	13	Banana Tree	8	14	Gudhal	35	15	Ixora	2	16	Akalifa Tree	1	17	karutantra tree	2	18	Dursena	5	19	Gulachin	7	20	champagne	1
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	shot	
21	Chandni	5
22	morpankhi	2
23	LasunBel	4
24	BeguniaBanist a	2
25	Manokamini	2
26	Sawani	2
27	Tecoma tree	1
28	Chandan	2
29	Kadam	1
30	Verigated	13
31	Panda Facus	48
32	Gandh Raj	3
33	Neem Tree	1
34	Awala Tree	1
35	Arjun	1
36	MeethaNeem	1
37	Alamanda	1
38	Sagwan Tree	9
39	BaganBeliya	3
40	Kuranda	1
41	EurakaPlam	2
42	Gular	1
	<b>Total</b>	<b>354</b>
<b>S. No.</b>	<b>Name of The Plant</b>	<b>Qty.</b>
1	Tulsi	6
2	Rush	1
3	Darsena	2
4	Sadabahar	5
5	Ajwain	1
6	Aloe vera	3
7	Gudhal	5
8	Karutantra	1
9	Giloy	1





		10	Schefflera	4
		11	saycus plant	4
		12	Dracaena variegated	3
		13	Forbiamili	7
		14	Koliyas Plant	25
		15	Photo laka	2
		16	Money Plant	2
		17	Sanguniyam plant	4
		18	Lily	200
		19	Asparagus plant	6
		20	Kochia plant	50
		21	Fireball lily	4
		22	sharifa plant	1
		23	Banana	1
		24	Alamonda	1
		25	Bela plant	2
		26	Gulachin plant	3
		27	Elaichi plant	1
		28	keli plant	1
		29	Asparagus plant	100
		30	Calendar plant	5000
		31	Duranta plant	2000
		32	Rose	1500
		33	China palm	50
		34	Began beliya	2
		35	Dufanbechiya	2
		36	Nag funny	2
			<b>Total</b>	<b>9002</b>
5.	Is the university campus have any Horticulture Department?	No		



	If yes, number of Staff working in Horticulture Department?	N. A
6.	Number of Tree Plantation Drives organized by institute per annum. (If Any)	02 (World Environmental Day and Earth day)
7.	Number of Trees Planted in Last year.	300
	Survival Rate	92%
8.	Plant Distribution Program for Students and Community	Yes. During the day of World Environmental Day celebration, we do Plant Distribution Program for Students and Community. Also, whenever we are celebrating any days, we always provide plants to our guest, in the replacement of Bouquets.
9.	Plant Ownership Program	NA

### III - ENERGY

1.	List down ways that you use energy in your campus. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	<p>Ways that we use energy</p> <ul style="list-style-type: none"> <li>• Electrical</li> <li>• Solar energy</li> <li>• Chemical energy                         <ul style="list-style-type: none"> <li>◊ Diesel</li> <li>◊ LPG</li> </ul> </li> </ul> <p>Ways that we could use less energy</p> <ul style="list-style-type: none"> <li>• Electricity usage should be limited.</li> <li>• Turn off lights, Fan, AC when not in use.</li> <li>• Use energy-efficient LED lighting.</li> <li>• Natural energy like solar energy must be used.</li> <li>• Reduce water wastage by using minimum water.</li> <li>• Waste water can be reused for other</li> </ul>
----	--	--



		<p>purpose like gardening.</p> <ul style="list-style-type: none"> <li>• Reduce fuel usage.</li> <li>• Reduce the paper usage by printing double side and reusing the old paper.</li> <li>• LPG should be used with keeping minimum level.</li> </ul>
2.	Is there any energy saving methods, equipments, techniques employed in your campus? if yes, please specify. if no, suggest some	<p>Yes.</p> <ol style="list-style-type: none"> <li>1. Electricity usage is limited.</li> <li>2. Lights, Fan, AC, etc are switched off when not in use.</li> <li>3. CFL/ LED lights are installed in many areas.</li> <li>4. Natural energy like solar energy is used as much as possible.</li> <li>5. We use standby mode in computers.</li> <li>6. We reduce water wastage by using minimum water.</li> <li>7. Waste water is reused for other purpose like gardening.</li> <li>8. Fuel usage is limited.</li> <li>9. Paper wastage is reduced by printing double side and reusing the old paper.</li> <li>10. LPG is used with keeping minimum level.</li> </ol>
3.	Give an estimate of number of lights installed in your campus along with numbers?	270
4.	Are any alternative energy sources employed/ installed in your campus? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.) Specify.	YES. We use the solar energy for all street light with automatic off/on and hot water supply given to students 24x7 by solar geyser water tank.
5.	Do you run "switch off" drills at campus?	Yes



6.	Are your computers and other equipment's put-on power-saving mode?	Yes, Auto saving mode
7.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	Yes , 6 hours per day

#### IV - WATER CONSERVATION

1.	List all the uses of water in your campus?	<ol style="list-style-type: none"> <li>1. Drinking</li> <li>2. Washing cloth</li> <li>3. Bathing and Flushing</li> <li>4. Cooking</li> <li>5. Gardening</li> </ol>
2.	How does your campus store water? (mention tanks with capacity) Are there any water saving techniques followed in your campus?	Water source is borewell. Institute have 4 Motor Pump (Vauna, Hindustan). Water is pumped from underground by motor pump to 11 water tanks, then distributed through pipeline to all buildings. Also, institute has 6 electra solar geyser water tank.
3.	If there is water wastage, specify why and how can the wastage be prevented/ stopped?	There is no any Water leakage in any pipes, bathrooms, washbasin, etc. if any leakage occurs it will be repaired immediately. Maximum Waste water is used for gardening.
4.	Locate the point of entry of water and point of exit of waste water in your campus. Entry- Exit-	Entry - Underground tube Exit - Main gate drain line to Sewer line



5.	Write down few ways that could reduce the amount of water used in your campus?	<ol style="list-style-type: none"> <li>1. All toilets are having dual flushing system.</li> <li>2. Signages are available in washroom for water conservation.</li> <li>3. Rejected water from AC and waste water are used for gardening</li> <li>4. Regular supervision for water leakage.</li> </ol>
6.	Record water use from the campus water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.	NA
7.	Does your campus harvest rain water? (Please explain the method and uses)	Yes
8.	Is there any water recycling System.	No

#### V - CLEAN AIR

1.	Are the Rooms in Campus are Well Ventilated?	Yes								
2.	Number of windows per room (aggregate value to be provided)	3:1								
3.	What is the ownership of the vehicles used by your institute? (Please Tick ✓ only one)	<table border="0"> <tr> <td></td> <td>Yes</td> </tr> <tr> <td></td> <td>Operator-owned vehicles</td> </tr> <tr> <td>✓</td> <td>Institute-owned vehicles</td> </tr> <tr> <td></td> <td>A combination of campus-owned and operator-owned vehicles</td> </tr> </table>		Yes		Operator-owned vehicles	✓	Institute-owned vehicles		A combination of campus-owned and operator-owned vehicles
	Yes									
	Operator-owned vehicles									
✓	Institute-owned vehicles									
	A combination of campus-owned and operator-owned vehicles									



4.	Provide details of institute-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	1	2	-	4	7
	No. of vehicles more than five years old	-	-	-	-	-
	No. of Air-conditioned vehicles	1	2	-	1	4
	PUC done	Yes	Yes	-	Yes	-
5.	Specify the type of fuel used by your institute's vehicles:	Buses	Cars	Vans	Other	
	Diesel	✓	✓	-	-	
	Petrol	-	-	-	✓	
	CNG	-	-	-	-	
	LPG	-	-	-	-	
	Electric	-	-	-	-	
6.	Air Quality Monitoring Program (If Any)	No				
7.	Students suffer from respiratory ailments? (If Any)	No				
8.	Details of Diesel/Gas Generator. (Rating & Make)	Kirloskar DG, and Generator -3				

#### VI – ANIMAL WELFARE

1.	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.) (if any)	There is no wild and domestic animal found in the campus. But, variety of birds and squirrels can be found which are not harmful to humans.
2.	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	NA



3.	Does your campus have a Biodiversity Programme or a KARUNA CLUB?	NA
----	--	----

#### VII - ENVIRONMENTAL LEGISLATIVE COMPLIANCE

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your campus have any rules to protect the environment? List possible rules you could include.	YES, 1. No Smoking and Tobacco 2. No Plastic 3. Save Water 4. Save Energy 5. No splitting
3.	Dose Environmental Ambient Air Quality Monitoring conducted by the Campus?	Yes
4.	Dose Environmental Water and Wastewater Quality monitoring conducted by the Campus?	Yes
5.	Dose stack monitoring of DG sets conducted by the Campus?	Yes
6.	Is any warning notice, letter issued by state government bodies?	NIL
7.	Dose any Hazardous waste generated by the Campus? If yes explain its category and disposal method.	NIL
8.	Dose any Bio medical waste generated by the Campus? If yes explain its category and disposal method.	NIL



VIII – GENERAL

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your campus have any rules to protect the environment? List possible rules you could include.	Yes
3.	What is the housekeeping schedule of garden and common areas in your campus?	On Daily basis
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes. Regular awareness program on environmental cleanliness is conducted to students and faculty.
5.	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. celebrated in your Campus?	Yes. We celebrates World Environment Day, and Earth Day, etc.
6.	Does Campus participated in National and Local Environmental Protection Movement?	No
7.	Does Campus has any Recognition/certification for environment friendliness?	No
8.	Does Campus using renewable energy?	Yes
9.	Does Institution conducts a green/environmental audit of its campus?	Yes
10.	Has the institution been audited/ accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	NAAC





## Recommendations

- Air Quality monitoring Programme should be implemented and Indoor air Quality Tests Shall be carried out yearly.
- Recycled papers shall be used in the campus.
- Water recycling system should be implemented.
- Ownership programs shall be given to different individuals to take care of the plants.



## Photographic Evidences



Lawns Area



College Entrance



Green Initiative Code of Conduct



Trees



Garden Area



Entrance



Yoga Day



Environment Day



Pot Decoration



Solar Panel



Solar Heater



**DG Set**



**Water Cooler**



**Water Tanks**



## Conclusion

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. Overall, large amount of campus is for landscaping. The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for university campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but recommendation is made in this report which would further strengthen the goal to achieve 100% environment friendly campus.



## References

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Water [Prevention & Control of Pollution] Cess Act-1977 (Amended 2003) and Rules- 1978
- The Air [Prevention & Control of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices

End of Report





## Elion Technologies & Consulting Private Limited

Registered Office:

307, 3rd Floor, DDA Lal Market, H-Block

VikasPuri, New Delhi-110018

Phone No: 011-28541888, 9013890526

Email: support@elion.co.in

Website: www.elion.co.in

  
Dr. ARCHANA CHOUHAN  
PRINCIPAL  
BABA COLLEGE OF NURSING,  
INSTITUTE OF PARAMEDICAL 1  
SIL MATIYARI DEVA ROAD,  
CHINHATH, LUCKNOW-226023

### DISCLAIMER

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**ENERGY AUDIT REPORT  
FOR  
BABA EDUCATIONAL SOCIETY  
INSTITUTE OF PARAMEDICAL  
COLLEGE OF NURSING**



**Elion Technologies & Consulting Private Limited**

307, 3<sup>rd</sup> Floor, DDA Lal Market, H-Block

Vikas Puri, New Delhi-110018

Contact No: +91 9013923982, +91 9013890526

Web: [www.elion.co.in](http://www.elion.co.in)



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## Acknowledgement

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 energy audit study.

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



## Site Information

Name of College	Baba Educational Society Institute of Paramedical College of Nursing
College Address	56, Deva Road, Matiyari, Chinhat, Lucknow. -226028.
Execution Partner	ELION Technologies & Consulting Pvt Ltd
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Purí, New Delhi-110018
Date of Audit	04 <sup>th</sup> September 2023
Year of Audit	2022 – 2023
Site Team who participated in the Study	<p>Mr. R K Vajpayee - Director                      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</p>
Main Energy Consuming Machines/Equipment's considered for Energy Audit	<ul style="list-style-type: none"> <li>• Lighting &amp; Fans</li> <li>• Air Conditioners</li> <li>• Motors &amp; Pumps</li> <li>• Desktops &amp; Printers</li> </ul>



## Executive Summary

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 super-specialty 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)

Electricity is supplied by Madhyanchal Vidyut Vitaran Nigam Ltd. and for backup powers supply DG Set of 45KVA, 30KVA, 12KVA each is available.

Also, solar power plant of capacity 50KVA is installed in the college.

The energy audit included detailed data collection, analysis of data and identification of specific energy saving proposals.



## Chapter 01: Introduction

Baba Educational Society Institute of Paramedical College of Nursing evinced interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting energy audit of their premises.

Elion Technologies and Consulting Pvt Ltd team conducted the Detail Energy audit on 04<sup>th</sup> September 2023.

This report is on the energy audit carried out Baba Educational Society Institute of Paramedical College of Nursing. The detailed energy audit comprised of the following activities:

- Data collection of power consuming equipment's.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the Engineers and management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by Baba Educational Society Institute of Paramedical College of Nursing officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

### Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

- General information of the site.



- Baseline energy description.
- Past energy consumption bills which include electricity bills.
- On site data collection
- Energy analysis of different sectors.
- Recommendation of energy conservation measures.

The primary goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the Plant by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.





## Chapter 02: Energy Consumption Details

List of equipment present in the campus:

Rating of Transformer (in KVA)	63KVA
Year of installation of the Transformer	2020
Rating of DG Set (in KVA)	Kirloskar, DG, Generator (45 KVA, 30KVA, 12 KVA)
Rating of Capacitor Bank (if present)	NA
Capacity of Solar Power Plant (if installed)	50KVA

The main areas of energy consumption as observed during the audit are as follows:

- Air Conditioners
- Lighting & Fans
- Motors & Pumps
- Desktops & Printers

The main sources of energy to meet the required consumptions are as follows:

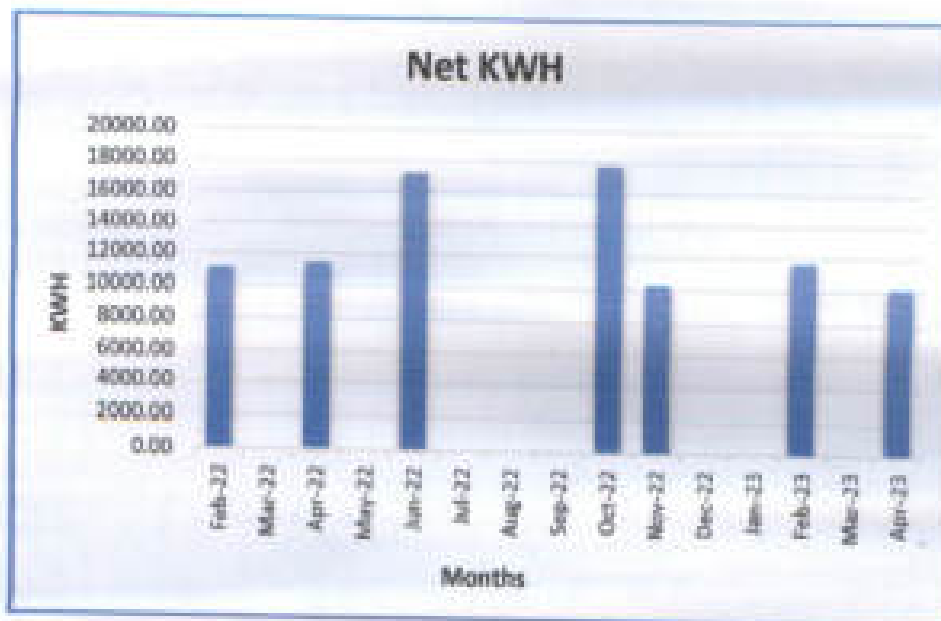
- Electricity supply from Madhyanchal Vidyut Vitaran Nigam Ltd.
- DG set of rating Kirloskar DG, Generator (45 KVA, 30 KVA, 12 KVA)
- Solar power plant of capacity 50KVA

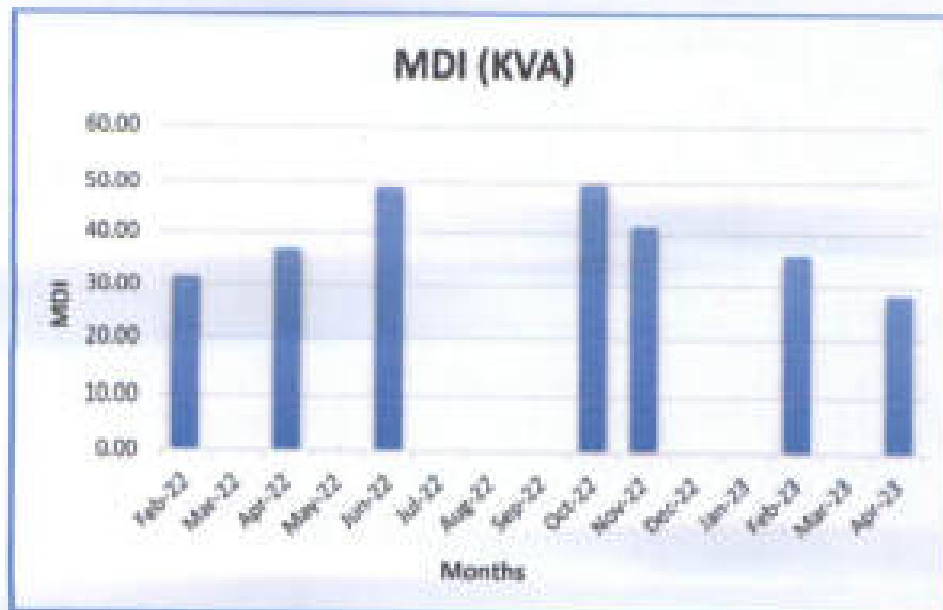
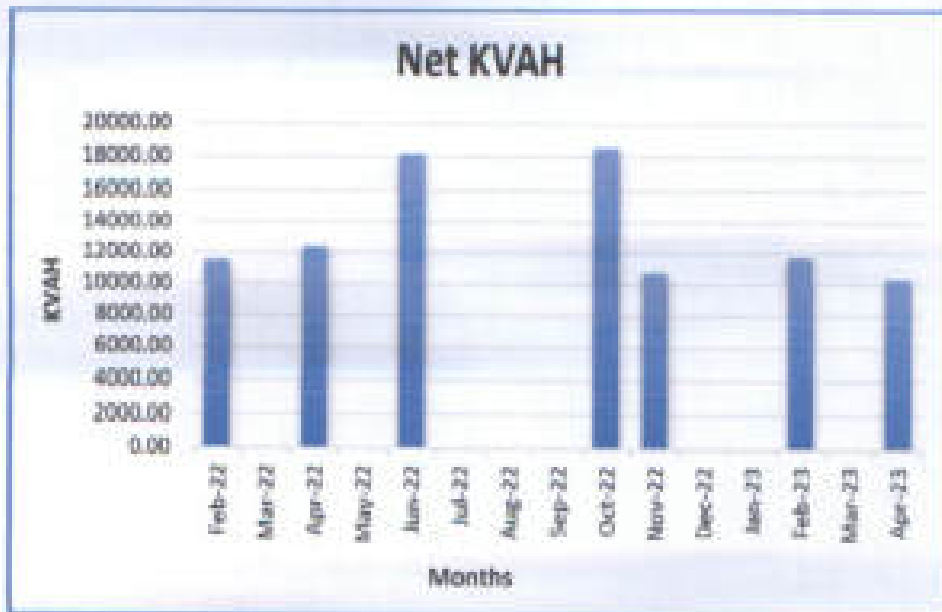


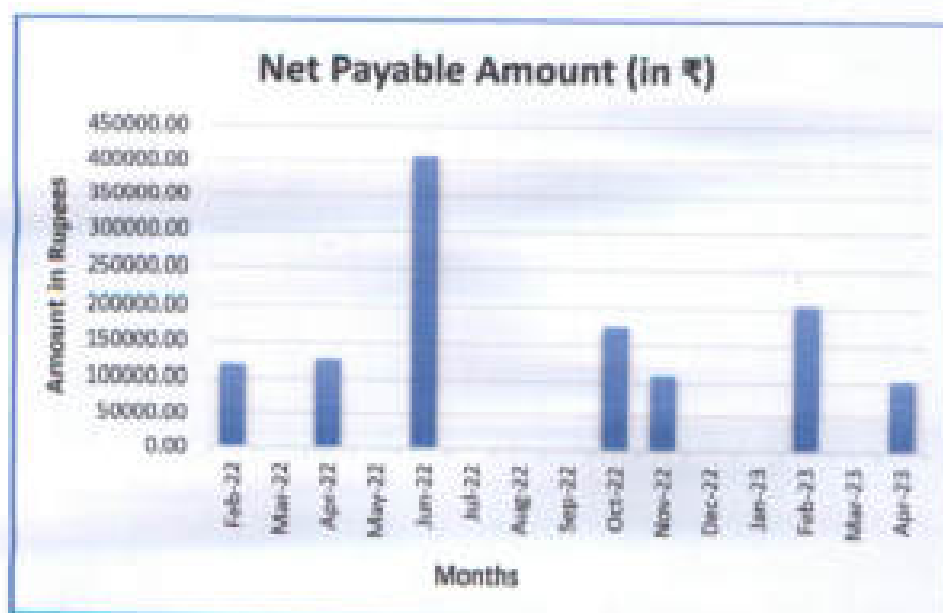
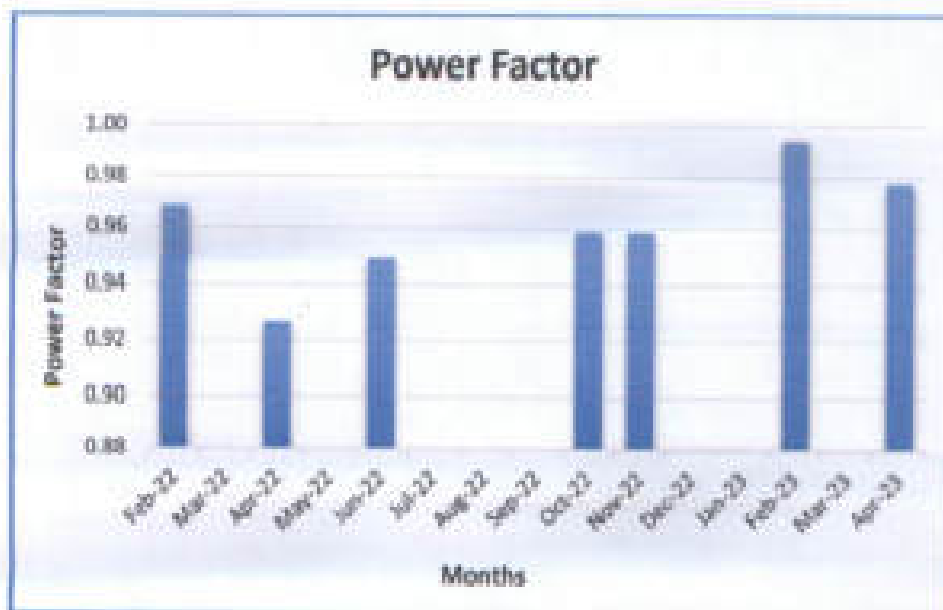
Consumption pattern for energy is given below:

Available electricity bills for the year were collected and following is the summary.

Months	Net KWH	Net KVAH	MDI (KVA)	Power Factor	Net Payable Amount (in ₹)
Feb-22	11090.40	11454.80	31.36	0.97	117257.00
Apr-22	11438.40	12338.60	36.72	0.93	125491.00
Jun-22	17213.20	18139.00	49.00	0.95	406093.00
Oct-22	17750.40	18518.00	49.56	0.96	174196.00
Nov-22	10226.80	10669.60	41.30	0.96	109511.00
Feb-23	11611.20	11682.80	35.82	0.99	204174.00
Apr-23	10078.80	10310.80	28.16	0.98	102888.00









## Chapter 03: Lighting System

Energy efficient LED lights and conventional lights are used in the campus. Following is the summary of lights installed in the campus:

Type of lights (LED/CFL/Conventional Bulb/Tube Light)	Location	Rating	Quantity	Number of Hours being turned on
LED BULB	Academic Block	80 W	5	8
		12 W	13	5
	Administrative Block	12 W	2	5
	Hostel/ Mess	09 W	127	16
		12 W	4	16
Simulation Lab	09 W	4	18	
LED TUBE LIGHT	Academic Block	20 W	39	6
	Administrative Block	20 W	26	16
	Hostel/Mess	20 W	42	16
TUBE LIGHT	Academic Block	40 W	39	8
	Administrative Block	40 W	20	12
	Hostel/ Mess	40 W	93	16
SODIUM LIGHT	Campus	100 W	6	12
CONCEALED LIGHT	Simulation Lab	12 W	134	6
	Administrative Block	12 W	82	8

### Observation:

It was observed that energy efficient LED lights are installed in some parts of the campus.



**Recommendation:**

- College management needs to replace all the conventional lights/Sodium Lights/Fluorescent Tube lights with LED lights.
- Sticker to SWITCH OFF LIGHT and SAVE ENERGY to be displayed.
- Regular cleaning of light fixtures to be done to get maximum lux level.





## Chapter 04: Pumps and Motors

Pump is generally used for pumping of ground water to the water tank. The details of the pumps are given below.

Name of Pump and make	Running Hours	Rated Capacity in KW	Flow Rate	RPM
Motor Pump - 04 Qty Varuna Hindustan	05	1.5	-	2820

**Observation:**

All pumps and motors are functioning properly and well maintained.

**Recommendation:**

Proper maintenance and upkeep of pump and motor to be done.



## Chapter 05: Air Conditioning

Windows and Split ACs are used in facility for air conditioning. Following is the list of ACs present in the campus:

Type of AC (Windows/Split/Package and Location)	Capacity in Ton	Whether any star rating available	Set Temperature	Running Hours	Whether AC performance is satisfactory (Yes/No)
Split AC Director Office	2.5	5	22	NA	YES
Split AC Principal Office	1.5	0	24	24	Yes

### Observation:

- All air conditioners are found to be functioning properly and well maintained.

### Recommendation:

- All doors to be kept closed while using the air conditioners and regular annual service of AC's should be carried out.
- Set Temperature of Air Conditioner shall be maintained at 26°C.
- A reduction in 1°C set point temperature, the energy cost comes down by 5%. By carefully selecting the seasonal temperature in different areas as per requirement considerable saving on account of power consumption can be achieved.
- Whenever Air Conditioners are replaced in future, BEE 5 star rated air conditioners shall be considered which are energy efficient.



BABA EDUCATIONAL SOCIETY INSTITUTE OF  
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Matiyari, Chinhat, Lucknow  
Energy Audit Report No: ENEA04092023



## Photographic Evidence



DG Set



Solar Panel



Solar Heater



Water Coolers



## Conclusion

The energy audit conducted at Baba Educational Society Institute of Paramedical College of Nursing has revealed that college is doing good work in having sustainable college. Energy efficient LED lights are installed in most of the campus. To further reduce energy consumption, college should implement the recommendation made in report.

**End of Report**



## Elion Technologies & Consulting Private Limited

Registered Office:

307, 3rd Floor, DDA Lal Market, H-Block

Vikaspur, New Delhi-110018

Phone No: 011-26541888, 9013890526

Email: support@elion.co.in

Website: www.elion.co.in



**Dr. ARCHANA CHOUHAN**  
PRINCIPAL  
BABA EDUCATIONAL SOCIETY INSTITUTE OF  
PARAMEDICAL COLLEGE OF NURSING  
Matiyari, Chinhat, Lucknow-226003

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GREEN AUDIT REPORT  
FOR  
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INSTITUTE OF PARAMEDICAL  
COLLEGE OF NURSING



**Elion Technologies & Consulting Private Limited**

307, 3rd Floor, DDA Lal Market, H-Block

Vikas Puri, New Delhi-110018

Contact No: +91 9013923982, +91 9013890526

Web: [www.elion.co.in](http://www.elion.co.in)



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<b>Date of Audit</b>	04 <sup>th</sup> September 2023
<b>Year of Audit</b>	2022 – 2023
<b>Audit Participants</b>	Mr. R K Vajpayee - Director 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
<b>Total Covered Area of College</b>	2.54 Acres
<b>Total Green Area</b>	1.09 Acres



## 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.





## 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 super-specialty 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)
- Auxillary nurse midwife (ANM) (2 year)



## 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 CO<sub>2</sub> 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.



## Environment Setting

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



Baba Educational Society Institute of Paramedical College of Nursing



**Location of Baba Educational Society Institute of Paramedical College of Nursing**



## 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
- l) 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.



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.



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
<b>Geyser Water Tank</b>		
Hostel Building- 6	500 Lit. each	Over head



**Water Tanks**

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





S. 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.



Dual Flushing is used

- g) Signages are provided in washrooms emphasizing water conservation.



Signages

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



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.



- 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

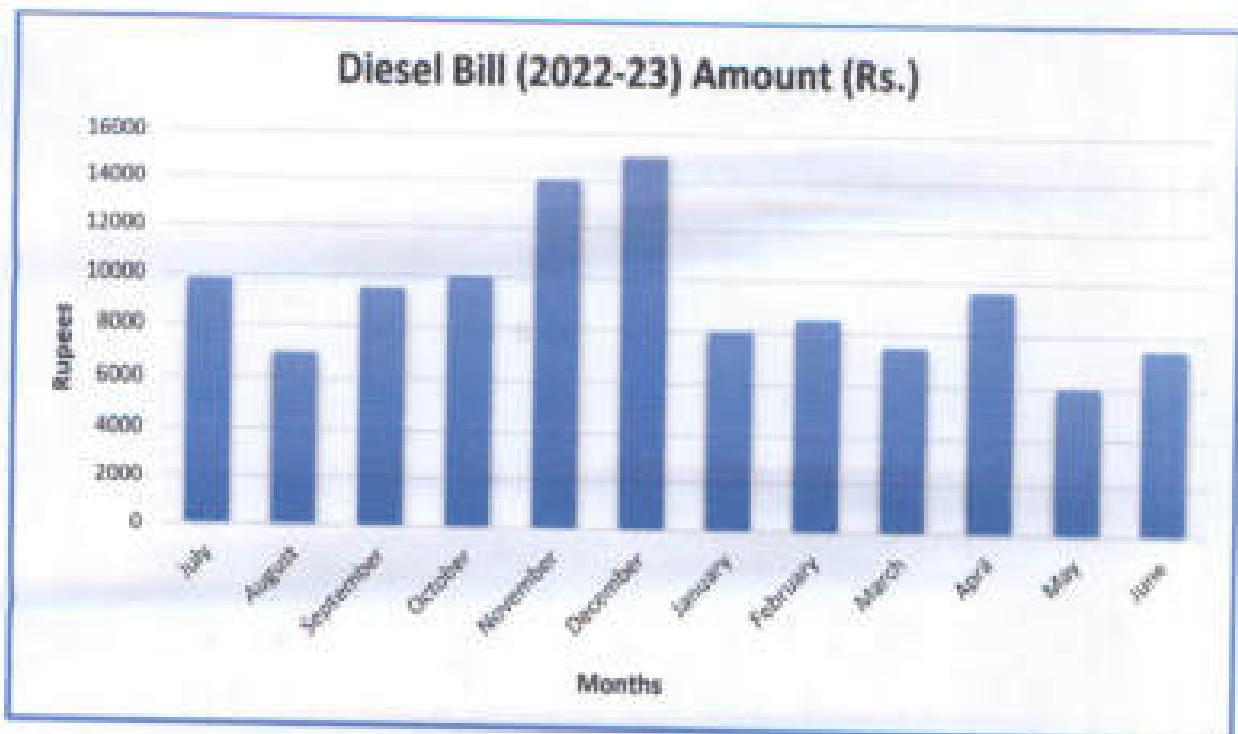
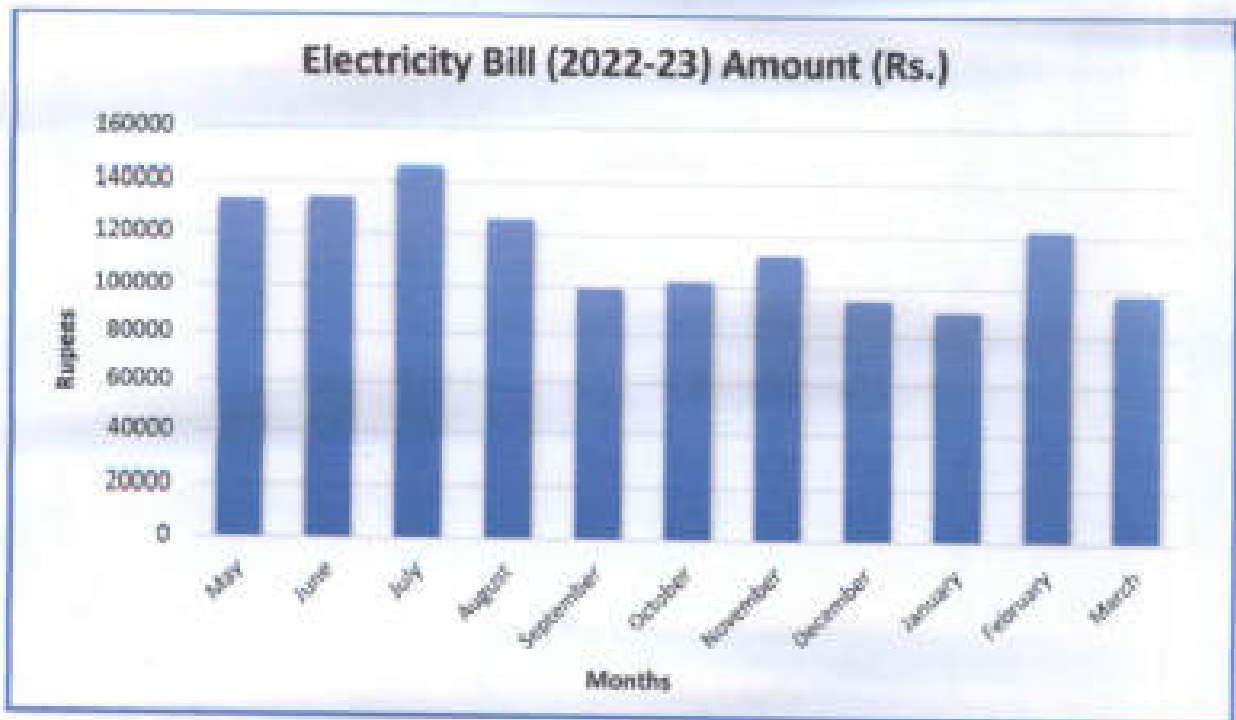
- c) Exhaust fans are provided in the washrooms and labs.  
d) Green belts have been set up in campus area.  
e) Indoor Air Quality tests have not been carried out. Same needs to be carried out at least once a year.

### 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:



It was observed that:

- 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.



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

- a) LPG is provided in the canteen for cooking.
- b) Back Up diesel generator pf capacity 45KVA, 30KVA, 12KVA is available in the campus.
- c) Solar Power plant of capacity 50KVA 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.



- d) There is no noise pollution around the campus.

### **3.8 Paper Waste Management**

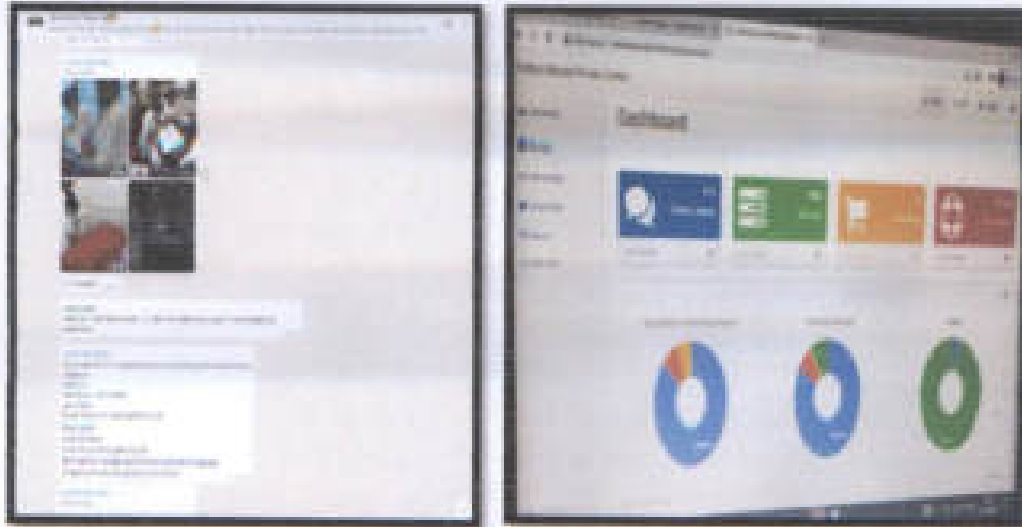
Being academic institution, waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage.

It was observed that:

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



- 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 mails etc.
- 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





- 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.
- c) 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.



- 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:

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





Plantation Day

b) Solar power plant is available in the campus.





Solar Heaters



## 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.
- b) 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.
- i) 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.
- c) 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.



- 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.
- f) 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.






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



## 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.





	<p>Formaldehyde, Benzene, Air borne fecal matter particles</p>	<p>Wood, Paper products, Air borne fecal – matter particles from pests</p>	<p>Easy to maintain</p>
	<p>Formaldehyde, Benzene and Trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>
	<p>Formaldehyde, Cleanses air</p>	<p>Exhaust fumes, carpeting materials, panelling and furniture products made with particle board</p>	<p>Extremely easy to maintain under low to bright light conditions. Fast growing and grows well under Fluorescent light.</p>
	<p>Formaldehyde, benzene and trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>



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




	Purifies indoor air	-	Easy to maintain
Parlor Palm			



## Elion Technologies & Consulting Private Limited

Registered Office:  
307, 3rd Floor, DDA Lal Market, H-Block  
VikasPuri, New Delhi-110018  
Phone No: 011-28541888, 9013890526  
Email: support@elion.co.in  
Website: www.elion.co.in

  
**Dr. ARCHANA CHOUDHAN**  
BABA EDUCATIONAL SOCIETY INSTITUTE OF  
PARAMEDICAL COLLEGE OF NURSING  
56  
CHINHAT, LUCKNOW

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