

Elion Technologies & Consulting Pvt Ltd

Certificate

This is to certify that Environment 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.

Campus has submitted necessary data and credentials for scrutiny. The college has ample amount of greenery and plantation which helps in maintaining the good quality air all around the campus and also helps in preventing soil erosion.

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

Certificate Number
ENV/2022/BESIPCN



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Audit Officer

A handwritten signature in blue ink, appearing to be "A".
Dr. ARCHANA CHOUHAN
PRINCIPAL
BABA COLLEGE OF NURSING
INSTITUTE OF PARAMEDICALS
56, DEVA ROAD,
CHINHAT, LUCKNOW-226028



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




Dr. ARCHANA CHOUHAN

Elion Technologies & Consulting Private Limited

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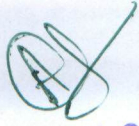
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Acknowledgement

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.

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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, 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 th 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.


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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.


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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:

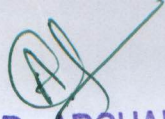
- Nursing College
- Paramedical College
- Pharmacy Education
- Skill India programs

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)



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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



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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.


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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?

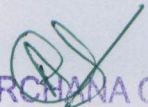
Yes, for year 2021 - 2022

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


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Which of the following are available in your campus?

1	Garden area	Yes
2	Playground	Yes
3	Kitchen	Yes
4	Toilets	Yes
5	Garbage Or Waste Store Yard	Yes
6	Laboratory	Yes
7	Canteen	Yes
8	Hostel Facility (Numbers)	Yes
9	Guest House	Yes

Which of the following are found near your campus?

1	Municipal dump yard	No
2	Garbage heap	No
3	Public convenience	Yes
4	Sewer line	Yes
5	Stagnant water	No
6	Open drainage	No
7	Industry – (Mention the type)	No
8	Bus / Railway station	Yes
9	Market / Shopping complex / Public halls	Yes



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 Pendula</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 a</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 Pendula	30	2	MaltiBel	5	3	Railway Bell	1	4	Rubber Plant	1	5	Ficusbenjamin a	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	BeguniaBanista	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
	Total	354
S. No.	Name of The Plant	Qty.
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

(Signature)



		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
			Total	9002
5.	Is the university campus have any Horticulture Department?	No		

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	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

<p>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>	<p>Ways that we use energy</p> <ul style="list-style-type: none"> • Electrical • Solar energy • Chemical energy <ul style="list-style-type: none"> ❖ Diesel ❖ LPG <p>Ways that we could use less energy</p> <ul style="list-style-type: none"> • Electricity usage should be limited. • Turn off lights, Fan, AC when not in use. • Use energy-efficient LED lighting. • Natural energy like solar energy must be used. • Reduce water wastage by using minimum water. • Waste water can be reused for other
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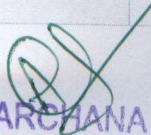
		<p>purpose like gardening.</p> <ul style="list-style-type: none"> • Reduce fuel usage. • Reduce the paper usage by printing double side and reusing the old paper. • LPG should be used with keeping minimum level.
2.	Is there any energy saving methods, equipments, techniques employed in your campus? If yes, please specify. If no, suggest some	<p>Yes.</p> <ol style="list-style-type: none"> 1. Electricity usage is limited. 2. Lights, Fan, AC, etc are switched off when not in use. 3. CSF/ LED lights are installed in many areas. 4. Natural energy like solar energy is used as much as possible. 5. We use standby mode in computers. 6. We reduce water wastage by using minimum water. 7. Waste water is reused for other purposes like gardening. 8. Fuel usage is limited. 9. Paper wastage is reduced by printing double side and reusing the old paper. 10. LPG is used with keeping minimum level.
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 24X 7 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"> 1. Drinking 2. Washing cloth 3. Bathing and Flushing 4. Cooking 5. Gardening
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


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PRINCIPAL



5.	Write down few ways that could reduce the amount of water used in your campus?	<ol style="list-style-type: none"> All toilets are having dual flushing system. Signages are available in washroom for water conservation. Rejected water from AC and waste water are used for gardening Regular supervision for water leakage.
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)	Yes
		Operator-owned vehicles
		✓ Institute-owned vehicles
		A combination of campus-owned and operator-owned vehicles

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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
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VII - ENVIRONMENTAL LEGISLATIVE COMPLIANCE

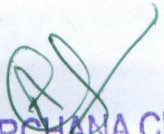
1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your campus have any rules to protect the environment? List possible rules you could include.	YES. 1. No Smoking and Tobacco 2. No Plastic 3. Save Water 4. Save Energy 5. No splitting
3.	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

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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


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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.


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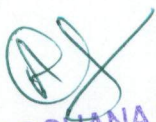
Photographic Evidences



Lawns Area



College Entrance


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Green Initiative Code of Conduct



Trees



Garden Area

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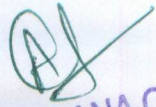
Entrance



Yoga Day

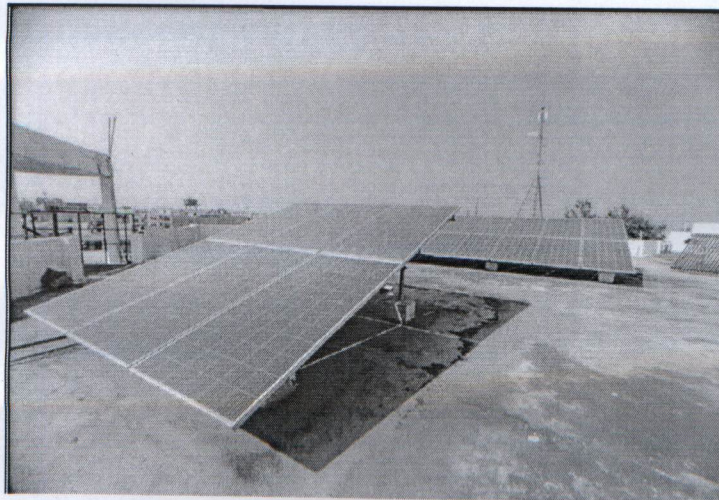


Environment Day

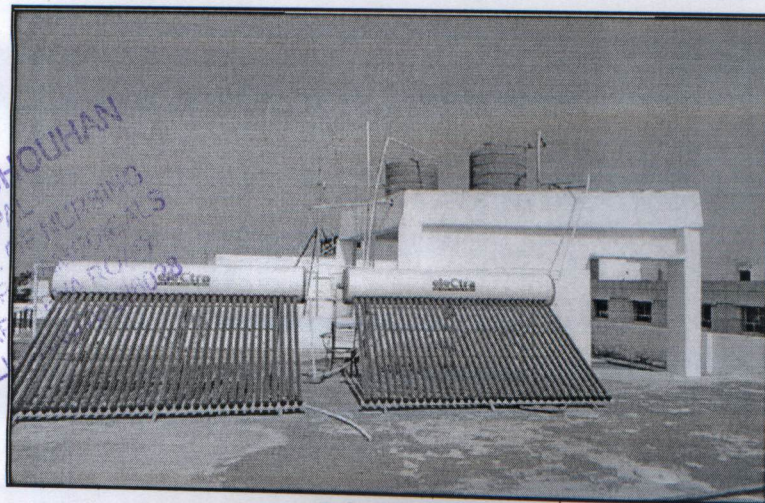

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Pot Decoration



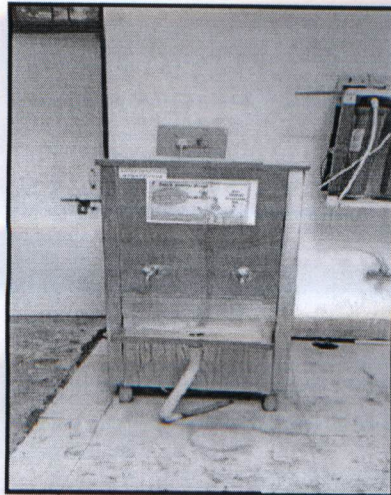
Solar Panel



Solar Heater



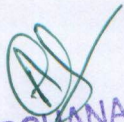
DG Set



Water Cooler



Water Tanks

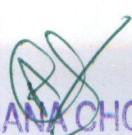

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Conclusion

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.

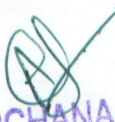
The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but recommendation is made in this report which would further strengthen the goal to achieve 100% environment friendly campus.


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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


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End of Report

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Environment Audit Report No: ENVA04092023



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