



**ENVIRONMENT AUDIT REPORT
FOR
SHRI MAHAVEER COLLEGE**



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Acknowledgement

Elion Technologies and Consulting Pvt Ltd thanks the management of Shri Mahaveer College, Rajasthan 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	Shri Mahaveer College
College Address	Gate no. 2, Mahaveer Marg, C-Scheme, Ashok Nagar, Jaipur, Rajasthan, 302007
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	11 th January 2023
Year of Audit	2023 – 2024
Audit Participants from Site	812
Total College Area	5715.19 Sqm
Total Green Area	1715 Sqm



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

Shri Mahaveer College is a premier institute nurturing young minds to develop a global future. The College believes in imparting quality education to its students while focusing on all aspects of career development and personality enhancement.

Shri Mahaveer College has the finest and qualified faculty. Here they enhance the nature of the teacher-student relationship by actively involving in counseling, mentoring and self-improvement initiatives. The faculty members are deeply committed to develop a quality environment to create a link between academia and the corporate by sharing their knowledge and experience.

List of courses offered by the institute:

Undergraduate Courses:

- Bachelor of Arts (B.A.)
Economics, English Literature, Hindi, Geography, History, Political science, Public Administration, Psychology, Statistics, Sociology
- Bachelor of Commerce (B. Com, (P))
- Bachelor of Commerce (ABST, B. Com(H))
- Bachelor of Business Administration (BBA)
- Bachelor of Visual Arts (BVA)
- Bachelor of Computer Application (BCA)

Postgraduate Courses:

- M.Com (HRM)
- M.Com (EAFM)
- M.Com (ABST)



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.

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

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?

No.

What is the total permanent population of the Campus?

	Male	Female	Total
Students	528	284	812
Teachers	9	24	35
Non-Teaching Staff	13	7	20
Sub Total			
Approximate Number of Visitors (Per day)			20-30
What is the total number of working days of your campus in a year?			260

Where is the campus located?

The campus is Located at Mahavir Marg, Panch Batti, C-Scheme, Ashok Nagar, Jaipur, Rajasthan-302007

**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)	No
9	Guest House	No

Which of the following are found near your campus?

1	Municipal dump yard	Yes
2	Garbage heap	Yes
3	Public convenience	Yes
4	Sewer line	Yes
5	Stagnant water	No
6	Open drainage	Yes
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 institute generate any waste? If so, what are they?	Yes. Solid waste ,Organic Waste
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	20-30 kg/month
3.	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Waste generated like paper and scrap are given to the vendors which are then recycled further. Also, old newspapers are used to wrap gifts. And most of the organic waste are feed to animals (eg. leaves, grass etc.)
4.	Do you use recycled paper in institute?	Yes
5.	Do you use reused paper in institute?	No
6.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	We conduct NSS and Rotract club activities to spread the message of recycling to others in the community.
7.	Can you achieve zero garbage in your institute? If yes, how?	We are trying but not yet achieve zero garbage.



II – GREENING THE CAMPUS

1.	Is there a garden in your institute?	Yes
2.	Do students spend time in the garden?	Yes
3.	Total number of Plants in Campus	150+
4.	Provide some names of trees and plants in the campus.	Ashok ,Guava, Yellow oleander, Sacred fig, Neem and Royal poinciana
5.	Is the college campus have any Horti culture Department?	No
	If yes, number of Staff working in Horticulture Department?	NA
6.	Number of Tree Plantation Drives organized by college per annum.(If Any)	2 per year
7.	Number of Trees Planted in Last year.	30+
	Survival Rate	
8.	Plant Distribution Program for Students and Community	Plant Distribution Program for Students and Community per year
9.	Plant Ownership Program	NA



III – ENERGY

1.	List down ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electricity, Switch off the lights, fans & other electrical appliances when not needed. Keep your electronics on a low brightness setting to save energy
2.	Are there any energy saving methods, equipments, techniques employed in your institute? If yes, please specify. If no, suggest some	1) Switch off the lights, fans & other electrical appliances when not needed. 2) Keep your electronics on a low brightness setting to save energy
3.	Give an estimate of number of lights installed in your campus along with numbers?	268 (LEDs)
4.	Are any alternative energy sources employed/ installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	NA
5.	Do you run "switch off" drills at institute?	Yes
6.	Are your computers and other equipment's put-on power-saving mode?	Yes
7.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	No



IV - WATER CONSERVATION

1.	List all the uses of water in your institute?	Drinking water , Cooking , Washrooms
2.	How does your institute store water? (mention tanks with capacity) Are there any water saving techniques followed in your institute?	Institute is having Water storage Tanks with storage capacity of 24900 Ltrs
3.	If there is water wastage, specify why and how can the wastage be prevented/ stopped?	-Turning Off the Tap when Not in Use. - Repairing the leakages at the earliest. - Disposing of tissues in the dustbin rather than inside the toilets
4.	Locate the point of entry of water and point of exit of waste water in your institute. Entry- Exit-	Entry point of water - Ground water tank near college Parking gate no. 3. Exit point of wastage water – Sewage outside institute
5.	Write down few ways that could reduce the amount of water used in your institute?	1) By Detecting and repairing the leaks so that wastage of water will get reduce. 2) By Avoiding flushing, the toilet unnecessarily. 3) Usage of sprinklers while watering the plants and trees.
6.	Record water use from the institute 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.	January (2024)-51500 February (2024)-51500 March (2024)-51500 April (2024)-51500 May (2024)-51500 June (2024)-51500



7.	Does your institute 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)	3-4 per room				
3.	What is the ownership of the vehicles used by your College? (Please Tick <input type="checkbox"/> Only one)	-	Yes			
		Yes	Operator-owned vehicles			
		3	College-owned vehicles			
		-	A combination of campus-owned and operator-owned vehicles			
4.	Provide details of college-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	2	-	1	-	-
	No. of vehicles more than five years old	-	-	-	-	-
	No. of Air conditioned vehicles	-	-	-	-	-
	PUC done	-	-	-	-	-
5.	Specify the type of fuel used by your school's vehicles:	Buses	Cars	Vans	Other	
	Diesel	2	-	-	-	
	Petrol	-	-	1	-	
	CNG	-	-	-	-	
	LPG	-	-	-	-	
	Electric	-	-	-	-	
6.	Air Quality Monitoring Program (If Any)	Yes				
7.	Students suffer from respiratory ailments? (If Any)	No				



8.	Details of Diesel/Gas Generator. (Rating & Make)	375 KV Generator (Sudir 250KV, Kerleskor 125 KV)
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VI – ANIMAL WELFARE

1.	List the animals (wild and domestic) found on the campus (cats, squirrels, birds, insects, etc.) (if any)	Birds like Pigeons
2.	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	No
3.	Does your institute have a Biodiversity Programme or a KARUNA CLUB?	No

VII - ENVIRONMENTAL LEGISLATIVE COMPLIANCE

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes. Rules included to protect the environment are – 1) Conserve water 2) Planting trees 3) Usage of LED bulbs 4) 3 Rs. – Reduce , Reuse and Recycle
3.	Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
4.	Does Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
5.	Does stack monitoring of DG sets conducted by the Institute?	No



6.	Is any warning notice, letter issued by state government bodies?	No
7.	Does any Hazardous waste generate by the Institute? If yes explain its category and disposal method.	No
8.	Does any Bio medical waste generate by the Institute? If yes explain its category and disposal method.	No

VIII – GENERAL

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes. Rules included to protect the environment are – 5) Conserve water 6) Planting trees 7) Usage of LED bulbs 3 Rs. – Reduce , Reuse and Recycle
3.	What is the housekeeping schedule of garden and common areas in your institute?	6:00 am to 4 pm
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes. Environmental cleanliness ways are followed as– 1) No plastic 2) Segregating waste in blue and green dustbins 3) Encourage students to compost food waste such as fruits and vegetables scraps instead of throwing them in the trash.
5.	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. celebrated in your Campus?	Yes
6.	Does Institute participate in National and Local Environmental Protection Movement?	Yes



7.	Does Institute has any Recognition/certification for environment friendliness?	Yes
8.	Does Institute using renewable energy?	No
9.	Does Institution conducts a green/environmental audit of its campus?	No
10.	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	No



Recommendations

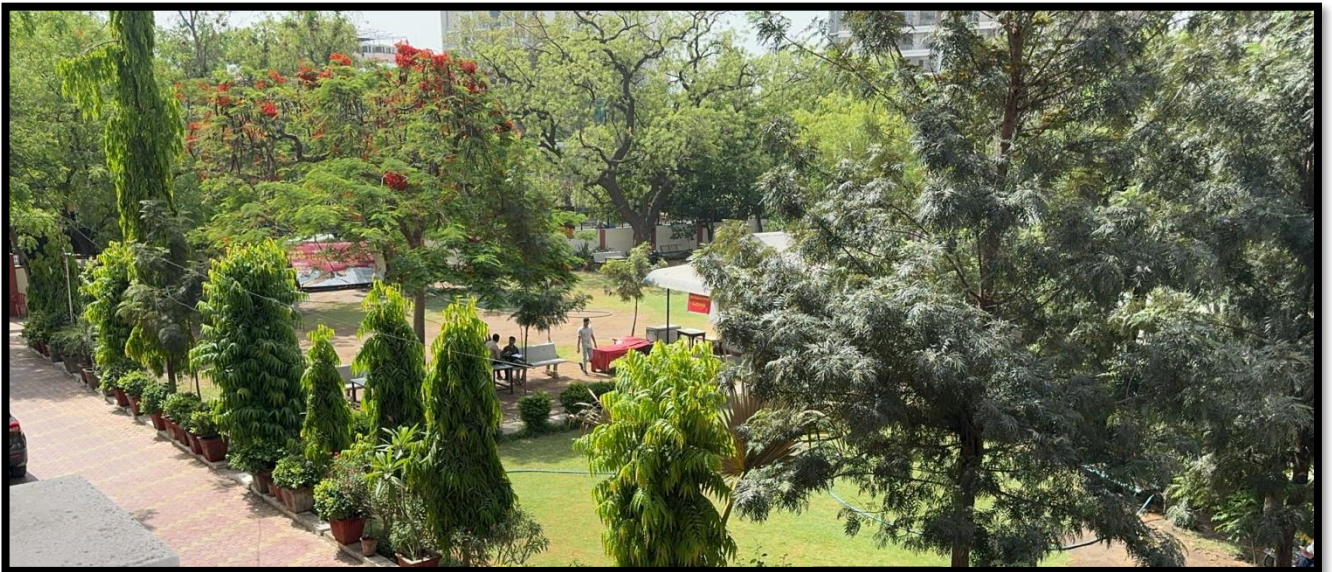
- Environment Policy to be adopted by the Campus.
- Equipments when not in use shall be switched off and should not run in standby modes or ideal.
- Installation of solar power plant for renewable energy shall be considered by the management.
- Indoor Air quality monitoring shall be carried out.
- Awareness programmes shall be carried out for promoting environmental awareness in nearby areas.



Photographic Evidences













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, a large are 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



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DISCLAIMER

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