# **ENVIRONMENT AUDIT REPORT**

(Feb, 2024)





# **Institute of Applied Medicines and Research**

9th Km Mile Stone, NH-58, Delhi-Meerut Road, Duhai, Ghaziabad



## **ENGINEERING FACILITY SERVICES**

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## Environment Audit Report – Institute of Applied Medicines and Research, Ghaziabad

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#### 1 ACKNOWLEDGEMENT

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Engineering Facility Services is special thankful to Dr. Pradeep Kumar Vashistha (Director) for providing us an opportunity to conduct an Audit of their college & providing the coordination with officers and staff.

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#### 3 INTRODUCTION

Environment Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Environment audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. 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.

## **4 OVERVIEW OF INSTITUTE**

Institute of Applied Medicines and Research today is unique in terms of its dynamism and is one of the best management institutes to come across. The institute has been able to consistently create multi-dimensional experiences for students that transform them into becoming professional assets who hit the ground running. It has innovative engagements with its industry partners that allow our faculty and students to work in close collaboration with marquee companies. With a world-class infrastructure supported by state-of-the-art technology, IAMR has emerged as one of the best colleges in Ghaziabad. It continues to look far beyond the routine, in its endeavor to produce leaders capable of a new hallmark in the world of business.

The organization encompasses an enthusiastic team of experts who help in the development and growth of potential students. IAMR Group is a self-financed, vibrant, young group of institutions established to meet the aspirations of the youth in the foregoing areas. While the sciences, health care and management institutions are located on Delhi – Meerut highway, the Engineering colleges are located on Meerut-Baghpat Road in lush green sprawling campuses. IAMR today is unique in terms of its dynamism and is one of the best educational group of Institutions to come across. The Group has been able to consistently create multi-dimensional experiences for students that transform them into becoming professional assets who hit the ground running. It has innovative engagements with its industry partners that allow our faculty and students to work in close collaboration with marquee companies. With a world-class infrastructure supported by state-of-the-art technology, IAMR continues to look far beyond the routine, in its endeavour to produce leaders capable of a new hallmark in the world of business.

Located in the industrial city of Ghaziabad, IAMR is known for quality technical and management education, canters of excellence, innovative teaching pedagogy, discipline, and other creative efforts.

## 5 **OBJECTIVES**

The Environment Audit of an institution is becoming a paramount important these days for self-assessment of the institution, which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep the environment clean since its inception. But the auditing of this non-scholastic effort of the college has not been documented. Therefore, the purpose of the present environment audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- 1. To document the quality drinking water
- 2. The document the quality of recycled waste water for gardening
- 3. To document the solid Waste disposal system
- 4. To document the ambient environmental condition of air, water and noise in the campus.
- 5. Benchmarking for environmental protection initiatives
- 6. Reduction in resource use
- 7. Financial savings through a reduction in resource use

## 6 AUDIT TEAM

## Audit was conducted by the EFS team:

Name	Position	Qualification
Deepak Bajpai	Lead Auditor	B. Tech (Mechanical Engineering) Bureau of Energy Efficiency Certified Energy Auditor, Chartered Engineer
Sandeep Sharma	Safety Auditor	Certification in Industrial Hygiene, NEBOSH National General Certificate. Advance Diploma in Fire & Safety Engineering and Environmental Management
Om Pal	Auditor	B. Tech
Gaurav Pratap	Auditor	B. Tech

#### 7 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 environmental audit of institute for NAAC affiliation; QS Programme 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.

## **8 AREA OF IMPROVEMENTS**

- Water Meter should be installed and maintain the inventory of water resource
- Internal inspection system should be developed for various equipments available in campus.
- Waste Management plan should be prepared for the campus.
- Environmental drills for response against spillage and leakage of chemicals in the campus

## 9 ENVIRONMENTAL AUDIT -QUESTIONARE

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

Dose any Environmental Audit conducted earlier?

No, this is first time a systematic way of monitoring their environmental eminence initiative taken by INSTITUTE OF APPLIED MEDICINES AND RESEARCH, GHAZIABAD for environment protection.

What is the total permanent population of the Institute?

Particulars	Total
Students	1300
Teachers	60
Non-Teaching Staff	35
Sub Total	1395
Approximate Number of Visitors (Per day)	15

#### Where is the campus located?

It is situated on 9th Km Mile Stone, NH-58, Delhi-Meerut Road, Duhai, Ghaziabad.

## Environment Audit Report – Institute of Applied Medicines and Research, Ghaziabad

Which of the following are available in your institute?

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

## Which of the following are found near your institute?

1	Municipal dump yard	Not in vicinity of institute
2	Garbage heap	No Garbage heaps
3	Public convenience	Yes , public convenience is available
4	Sewer line	Not installed
5	Stagnant water	No stagnant water
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 institute generate any	r institute generate any Yes, Solid waste Canteen waste, paper, plastic,		
	waste?	Horticulture Waste etc		
	If so, what are they?			
2.	What is the approximate amount of			
	waste generated per day? (in	Dry Waste	Wet Waste	
	Kilograms/month) (approx.)	1800 kg	600 Kg	
3.	How is the waste generated in the	Reuse of one side printed	Paper for internal	
	institute managed? By	communication. Sewage wate	r used for gardening.	
	1 Composting	Two types of Waste bins are p	rovided at campus for	
	2 Recycling	biodegradable and non-bi	odegradable waste.	
	3 Reusing	Horticulture waste is also	disposed by the	
	4 Others (specify)	Ghaziabad Authority.		
4.	Do you use recycled paper in institute?	Yes		
5.	Do you use reused paper in institute?	Yes		
6.	How would you spread the message of	Done in locality for awareness	of resource	
	recycling to others in the community?	crunches		
	Have you taken any initiatives? If yes,			
	please specify.			
7.	Can you achieve zero garbage in your	Not yet achieved. Possible thro	ugh waste	
	institute? If yes, how?	management plan.		

## II - GREENING THE CAMPUS

8.	Is there a garden in your institute?	Yes, about Approx. 30% areas are developed as Gardens.		
9.	Do students spend time in the garden?	2-4 Hours during winters		
10.	Total number of Plants in Campus	Plant type	Approx. number	
		Trees & Ornamental	30 trees and 400 Ornamental	
11.	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Fycer Riznald, Black Fycus, Nerofoliya, Boganvilia Boganvilia Kezreena and many more as per geographical regime.		
12.	Is the university campus have any Horticulture Department	Yes		
	Number of Staff working in Horticulture	four Gardeners, One Supervisor and		
	Department	Services of External E	Experts are also taken	
13.	Number of TreePlantation Drives organized by	Yes, Two Tree Plantation Drives are		
	college per annum. (If Any)	Organized Annually. 10 trees and 50 shruplanted in this financial year.		
14.	Number of Trees Planted in Last FY.	12		
	Survival Rate	80%		
15.	Plant Distribution Program for Students and	Yes, Saplings are distr	ributed to Students	
	Community	and visitors at variou	s Occasions. Besides	
		this landscape of som	e area in city are	
		developed by Institut	e.	
16	Plant Ownership Program	Various Trees are Pla	nted and owned by	
		Visitors as well as stu	dents. The Name	
		plates are also display	yed near the plants.	

## III - ENERGY

17.	List ten ways that you use energy in your	Electricity saves by use of CFL/LED bulbs
	institute. (Electricity, LPG, firewood, others).	for illumination, LPG saves by use of
	Using this list, try to think of ways that you	Pressure cookers for cooking food.
	could use less energy every day.	Alternate source of energy i.e. Solar plant
		Installed.
18.	Are there any energy saving methods	Yes, Renewable source of energy through
	employed in your institute? If yes, please	solar plant (60 KW).
	specify. If no, suggest some	Massages are displayed at various locations
		to Aware the Peoples about Energy
		Savings.
		Use of Natural Lights and Natural
		Ventilation are promoted.
19.	How many CFL/LED bulbs has your institute	100 % of Total Conventional bulbs are
	installed?	replaced by LED/CFL Lights.
20.	Are any alternative energy sources employed /	Yes, photovoltaic cells for solar energy,
	installed in your institute? (photovoltaic cells	energy efficient stoves
	for solar energy, windmill, energy efficient	
	stoves, etc.,) Specify.	
21.	Do you run "switch off" drills at institute?	Yes
22.	Are your computers and other equipment's put	Yes, In Practice
	on power-saving mode?	
23.	Does your machinery (TV, AC, Computer,	Yes (5 to 7 Hr)
	weighing balance, printers, etc.) run on	
	standby modes most of the time? If yes, how	
	many hours?	

## IV - WATER CONSERVATION

1 V -	WATER CONSERVATION	
24.	List four uses of water in your institute	Basic use of water in campus:
		1. Drinking – 450 KL/month
		2. Gardening – 300 KL/month
		3. Kitchen and Toilets – 400 KL/month
		4. Others – 500 KL/month
25.	How does your institute store water? Are	28 Nos of Overhead Water Tanks installed for
	there any water saving techniques followed in	storage of water.
	your institute?	Avoid overflow of water float valves
		are provided in water supply system. Close
		supervision for water supply system.
		Rain water harvesting pit 01 Nos
26.	If there is water wastage, specify why and	No
	How	
27	can the wastage be prevented / stopped?  Locate the point of entry of water and point of	Entry- Water comes from Submersible
۷,		
	exit of waste water in your institute.	Pumps at campus  Evit. From Water Proinces System to
	Entry-	Exit- From Water Drainage System to Ghaziabad Municipal Drain
	Exit-	•
28.	Write down four ways that could reduce	Basic Four ways:
28.	Write down four ways that could reduce the amount of water used in your institute	Basic Four ways:  1. Close the taps after usage
28.	•	·
28.	•	Close the taps after usage
28.	•	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves</li> </ol>
28.	•	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow,</li> </ol>
28.	•	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> </ol>
28.	•	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for</li> </ol>
	•	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> </ol>
	the amount of water used in your institute	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> </ol>
	the amount of water used in your institute  Record water use from the institute water	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> <li>No, Water Meters available for calculation</li> </ol>
	Record water use from the institute water meter for six months (record at the same	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> <li>No, Water Meters available for calculation</li> </ol>
	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,	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> <li>No, Water Meters available for calculation</li> </ol>
29.	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 liters of	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> <li>No, Water Meters available for calculation</li> </ol>
29.	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 liters of water have been used.	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> <li>Water Meters available for calculation of usage of total quantity only.</li> </ol>
29.	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 liters of water have been used.	<ol> <li>Close the taps after usage</li> <li>Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>Water Conservation awareness for new Students</li> <li>Rain harvesting water use for gardening</li> <li>Water Meters available for calculation of usage of total quantity only.</li> </ol> One number of rain water

## V - CLEAN AIR

32.	Are the Rooms in Campus are Well Ventilated?	Yes	Yes			
33.	Window Floor ratio of the Rooms	Very Go	ood			
34.	What is the ownership of the vehicles used		Yes			
	by your school? (Please Tick ✓ only one)		Operator-owned vehicles School-owned vehicles			es
			A comb			us-owned hicles
35.	Provide details of school-owned motorised vehicles?	Buses	Cars	Vans	Bike +Othe	Total
	No. of vehicles	1	6	0	0	7
	No. of vehicles more than five years old	1	3	0	0	4
	No. of Non Air conditioned vehicles	1	1	0	0	2
	PUC done	Yes	Yes	Yes	Yes	Yes
36.	Specify the type of fuel used by your school's vehicles:	Buses	Cars	7	/ans	Other
	Diesel	1	3	0		0
	Petrol+CNG	0	0	0		0
	CNG	0	0	0		0
	LPG	0	0	0		0
	Petrol	0	3	0		0
	Electrical	0	0	0		0
37.	Air Quality Monitoring Program (If Any)			No		
38.	Students suffer from respiratory ailments? (If Any)	No				
39.	Details of Genset		Numbers ties of DG's			

#### VI - ANIMAL WELFARE

40	List the animals (wild and domestic) found on	Birds and Squirrels are commonly found in
	the campus (dogs, cats, squirrels, birds, insects,	campus. A variety of birds species and
	etc.)	other flora and fauna available but these
		are not harmful to human so institute
		doing their bid for its conservation.
41.	How many dogs in your area have undergone	Not required
	Animal Birth Control - Anti Rabies (ABC - AR)?	
42.	Does your institute have a Biodiversity	Not Available
	Programme or a KARUNA CLUB?	

#### VII - ENVIRONMENTAL LEGISLATIVE COMPLIANCE

43.	Are you aware of any environmental Laws	Yes
43.		165
	pertaining to different aspects of	
	environmental management?	
44.	Does your institute have any rules to protect	No
	the environment? List possible rules you could	
	include.	
45.	Dose Environmental Ambient Air Quality	No
	Monitoring conducted by the Institute?	
46.	Dose Environmental Water and Wastewater	Yes
	Quality monitoring conducted by the Institute?	
47.	Dose stack monitoring of DG sets conducted by	No
	the Institute?	
48.	Is any warning notice, letter issued by state	No
	government bodies?	
49.	Dose any Hazardous waste generated by the	Yes (Disposal of hazardous waste by
	Institute? If yes explain its category and	dilution method)
	disposal method	
EO	•	No
50.	Dose any Bio medical waste generated by the	INU
	Institute? If yes explain its category and	
	disposal method	

## VIII - GENERAL

46.	Are you aware of any environmental Laws	Yes
	pertaining to different aspects of	
	environmental management?	
47.	Does your institute have any rules to protect	No
	the environment? List possible rules you could	
	include.	
48.	Does housekeeping schedule in your campus?	Yes, Swatch Bharat movement
49.	Are students and faculties aware of	Yes, Periodically pollution reduction,
	environmental cleanliness ways? If Yes Explain	plantation, energy conservation awareness
		campaigns carried out by institute
50.	Dose Important Days Like World Environment	Yes
	Day, Earth Day, and Ozone Day etc. eminent in	
	Campus?	
51.	Dose Institute participated in National and	Yes, Swatch Bharat Abhiyan by students at
	Local Environmental Protection Movement?	campus.
<b>52</b> .	Dose Institute has any	No
	Recognition/certification for environment	
	friendliness?	
53.	Dose Institute using renewable energy?	Yes
54.	Dose Institution conducts a	Yes
	green/environmental audit of its campus?	
55.	Has the institution been audited / accredited	No
	by any other agency such as NABL, NABET,	
	TQPM, NAAC etc.?	

# 10 BEST PRACTICES/INITIATIVES FOR ENVIRONMENT

A	Renewable Energy	The capacity of 60 KW Solar plant on building
	A clean source of energy is utilized at campus.	roofs is already installed.
	Efforts towards <b>Carbon Neutrality</b>	
В	Biodiversity Conservation	It is in schedule plan of Campus
	Flora and fauna conservation	Environment committee
С	Tree Plantation Drives	Yes
	Two Drives Annually as well as Every Guest is	
	honored by Tree Plantation at Campus.	
D	Ground Water Recharge	Yes
	01 units of Rain Water Harvesting System.	
Е	Pollution Reduction Personal Vehicles	Reduction in Air Pollution through vehicular
	(Students) not allowed at campus	emission.
F	E Waste Management	Handover Authorized recycler
G	Solid Waste Management	Yes
	Lifting of garbage from INSTITUTE OF	
	APPLIED MEDICINES AND RESEARCH,	
	GHAZIABAD campus daily by	
	Ghaziabad Authority.	
Н	Adoption of Village School	No
	CSR	
I	Water Conservation	Yes, rain harvesting water used for
		gardening in campus.
J	Corporate Resource Center (CRC)	INSTITUTE OF APPLIED MEDICINES AND RESEARCH, GHAZIABAD College Corporate Resource Center
		(CRC) is dedicated to nurturing future
		leaders
K	Mitigation measures for Air pollution at construction stage and operation stage by	Yes
	developing adequate green belt.	
L	Mitigation measures for noise pollution by isolation of noise generation activities	Yes
M	Disaster management plan	No
N	Fire protection system	Yes

#### 11 RECOMENDATIONS

- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Stack Monitoring of DG sets, Water and wastewater monitoring need to be conducted by Haryana State Pollution Control Board, approved laboratory with frequency of six month.
- Water Meter should be installed at institute for monitoring of water consumption per capita.
- Environment/Green committee formation for regulating eco-friendly initiatives at campus premises and periphery as already Unnat Bhrat Abhiyan and NSS team exits.

#### 12 CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The INSTITUTE OF APPLIED MEDICINES AND RESARCH, GHAZIABAD has Environmental Committee for sustainable use of resources. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for college campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There is no major observations but few things are important to initiate urgently are waste management records by monthly inventory of hazardous waste, water balance cycle and periodic inspection of buildings and initiation of composting at campus.

#### 13 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

## 14 ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSIOUSNESS





# **THANKS**

