



# ENVIRONMENT AUDIT REPORT FOR IDEAL INSTITUTE OF TECHNOLOGY



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## Acknowledgement

Elion Technologies and Consulting Pvt Ltd thanks the management of Ideal Institute of Technology, Maharashtra 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

<b>Name of College</b>	Ideal Institute of Technology
<b>College Address</b>	At Village - Posheri, Taluka, Wada, Maharashtra - 421303
<b>Execution Partner</b>	ELION Technologies & Consulting Pvt Ltd
<b>Communication Address</b>	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi, 110018
<b>Date of Audit</b>	03 <sup>rd</sup> April 2024
<b>Year of Audit</b>	2024 – 2025
<b>Audit Participants</b>	Ideal Institute of Technology
<b>Total College Area</b>	11 Acres
<b>Total Green Area</b>	7 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.



## Overview of Campus

One of the best Engineering College in Maharashtra, college is located in Wada dist.: - Palghar, Campus occupying an area 30 Acres. The College has more than 95 faculty members, 50 support staff & over 1000 students. Our infrastructure is supported by many fully equipped laboratories.

IDEAL INSTITUTE OF TECHNOLOGY is committed to grooming leaders who are not only thorough professionals but also good human beings. Our faculty and senior team travel all over the globe to learn and imbibe the best practices so as to enable us to provide solid foundation for learning. As part of this endeavour, we have provided well equipped library with books from diversified areas, periodicals and National & International Journals.

At IDEAL INSTITUTE OF TECHNOLOGY there is a strong relation between the academic represented by students and faculty, and the corporate world. The purpose is to initiate continuous interaction with the industry, sharing the industry experiences, understanding industry needs and providing the required support to the corporate world, as well as opportunities to students to work in alliance with Industry.

Academic programs at Ideal institute of technology are designed to enable growth and learning in a highly focused and application-based environment. This is achieved through a combination of formal lectures and hands-on experience in well-equipped laboratories and through learning-based projects.

Activities of the Promoting Body since inception: (On Academic, Social & Industrial Activities and details on other institutions run by the Promoting Body) Members are involved in academic, social and industrial activities. The President of the society is engaged in the social activities, which include academically and financially helping the poor and / or meritorious students. Some members of the promoting body are involved in academic field and managing educational institutions. The Society members decided to continue their service in the field of education with redoubled vigor and dedication to meet the changing challenges in their fields. The society is financially sound and will be able to construct buildings and purchase of Equipment required for the Ideal institute of technology. Ideal Foundation is a charitable trust backed by the ideal Group and we, the promoters of the trust consist of professional educationalists. We have organized various cultural competitions in Maharashtra and guided students regularly at school level, which boosted many youngsters to achieve excellence in their respective career. Inter school & college competitions in singing, Elocution, acting etc. are held annually, thereby excelling the students for co-curricular activities. These competitions are getting encouraging response from the student's year after year.

### About Ideal Education

In Academic, Social & Industrial Activities and details on other institutions run by the Promoting Body Members are involved in academic, social and industrial activities. The Chairman of the society is engaged in the social activities, which include academically and financially helping the poor and / or meritorious students. Some members of the promoting body are involved in academic field and



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managing educational institutions. The Society members decided to continue their service in the field of education with redoubled Vigor and dedication to meet the changing challenges in their fields. The society is financially sound and will be able to construct buildings and purchase of equipment's required for the Ideal institute of technology.

**List of courses offered by the institute:**

- Computer Engineering
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Electronics & Telecommunication Engineering





## 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.



## 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 Institute?

	Male	Female	Total
Students	170	45	215
Teachers	34	14	48
Non-Teaching Staff	20	12	32
Sub Total	224	71	295
Approximate Number of Visitors (Per day)			30
What is the total number of working days of your campus in a year?			300

Where is the campus located?

The campus is located in Plot no 40, Posheri village, Pimplaj road, Taluka Wada, District Palghar - 421303.



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?	Canteen Waste
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	5Kg (150Kg/month)
3.	How is the waste generated in the campus managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	Composting
4.	Do you use recycled paper in campus?	Yes
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.	Through awareness seminar poster slogan etc.
7.	Can you achieve zero garbage in your campus? If yes, how?	Yes, Recycling non disposable, Composting Biodegradable.



## 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	1000
4.	Provide some names of trees and plants in the campus.	Shami, Babul, Rose, Jamun, Mango, Saptaparni, Papita, Rudraksh, Chirata, Chandan, Kanchnar, Palash, Harsingar, Shtavari, Champa, Neem etc.
5.	Is the university campus have any Horticulture Department?	No
	If yes, number of Staff working in Horticulture Department?	--
6.	Number of Tree Plantation Drives organized by institute per annum.(If Any)	2 and Minimum One
7.	Number of Trees Planted in Last year.	100
	Survival Rate	80%
8.	Plant Distribution Program for Students and Community	Yes
9.	Plant Ownership Program	Planning to adapt ownership program in the coming session



### 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.	<ol style="list-style-type: none"> <li>LPG is used for cooking purpose in the college canteen.</li> <li>Electricity for running all the electrical equipment's like, motors, pumps, computers, machines, lights and fans.</li> </ol>
2.	Are there any energy saving methods, equipments, techniques employed in your campus? If yes, please specify. If no, suggest some	Yes, five-star Equipment are always preferred, led lights used, Banner and poster to save energy
3.	Give an estimate of number of lights installed in your campus along with numbers?	404
4.	Are any alternative energy sources employed/ installed in your campus? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	No, we are planning to install a 10KW rooftop Solar Plant
5.	Do you run "switch off" drills at campus?	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?	Yes, 3 - 4 hours



#### IV - WATER CONSERVATION

1.	List all the uses of water in your campus?	1. Drinking & Cooking in canteen 2. Irrigation for Garden 3. Washing & Cleaning 4. Washrooms
2.	How does your campus store water? (mention tanks with capacity) Are there any water saving techniques followed in your campus?	10,000 Liters.
3.	If there is water wastage, specify why and how can the wastage be prevented/ stopped?	Nil
4.	Locate the point of entry of water and point of exit of waste water in your campus. Entry- Exit-	Entry – Overhead Tank Exit – Through recharging pit and gardening
5.	Write down few ways that could reduce the amount of water used in your campus?	<ul style="list-style-type: none"> <li>• check our toilet for leaks.</li> <li>• Stop using our toilet as an ashtray or wastebasket.</li> <li>• Take shorter showers.</li> <li>• Install water-saving shower heads or flow restrictors.</li> <li>• Turn off the water while not in use</li> <li>• We use Signage to educate staff and students.</li> </ul>
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.	Yes, 11,000 Liters per day
7.	Does your campus harvest rain water? (Please explain the method and uses)	No
8.	Is there any water recycling System.	Yes





**V - CLEAN AIR**

1.	Are the Rooms in Campus are Well Ventilated?	Yes				
2.	Number of windows per room (aggregate value to be provided)	Yes, 2				
3.	What is the ownership of the vehicles used by your institute? (Please Tick ✓ only one)		Operator-owned vehicles			
		✓	School-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	4	8	3	0	15
	No. of vehicles more than five years old	-	-	-	-	-
	No. of Air conditioned vehicles	-	8	-	-	8
	PUC done	4	8	3	-	15
5.	Specify the type of fuel used by your institute's vehicles:	Buses	Cars	Vans	Other	
	Diesel	4	-	1	5	
	Petrol	-	1	-	1	
	CNG	-	3	2	5	
	LPG	-	-	-	-	
	Electric	-	4	-	4	
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)	05 Star Rating				



## VI – ANIMAL WELFARE

1.	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.) (if any)	No
2.	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	No
3.	Does your campus 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 campus have any rules to protect the environment? List possible rules you could include.	<ul style="list-style-type: none"> <li>• Consume less. Curbing consumption can have a huge impact on the environment.</li> <li>• Compost.</li> <li>• Choose reusable over single-use.</li> <li>• Upcycle more.</li> <li>• Recycle properly.</li> <li>• Shop secondhand.</li> </ul>
3.	Does Environmental Ambient Air Quality Monitoring conducted by the Campus?	No
4.	Does Environmental Water and Wastewater Quality monitoring conducted by the Campus?	Yes
5.	Does stack monitoring of DG sets conducted by the Campus?	Yes
6.	Is any warning notice, letter issued by state government bodies?	No



7.	Does any Hazardous waste generated by the Campus? If yes explain its category and disposal method.	No
8.	Dose any Bio medical waste generated by the Campus? 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 campus have any rules to protect the environment? List possible rules you could include.	Use Reusable Bags. <ul style="list-style-type: none"> <li>• Print as Little as Necessary.</li> <li>• Recycle.</li> <li>• Use a Reusable Beverage Containers.</li> <li>• Don't Throw Your Notes Away.</li> <li>• Save Electricity</li> <li>• Save Water.</li> <li>• Avoid Taking Cars or Carpool When Possible.</li> </ul>
3.	What is the housekeeping schedule of garden and common areas in your campus?	Weekly
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Volunteer for Different Projects. <ul style="list-style-type: none"> <li>• Use Your Creative Potential.</li> <li>• Attend a March or Rally.</li> <li>• Effective Use of social media.</li> <li>• Emphasize on Individual Action.</li> <li>• Create Informative Content.</li> </ul>
5.	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. celebrated in your Campus?	Yes
6.	Does Campus participated in National and Local Environmental Protection Movement?	Yes
7.	Does Campus has any Recognition/certification for environment friendliness?	No
8.	Does Campus using renewable energy?	No



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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.?	Under Process for NAAC accreditation



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## Recommendations

- Environment Policy to be adopted by the Campus.
- Waste handling policy shall be prepared and followed.
- Installation of solar power plant shall be considered.
- Equipment's when not in use shall be switched off and should not run in standby modes or ideal.
- Use of recycled paper shall be encouraged in the campus.
- Arrangement of training programmes on environmental management system and nature conservation for schools and local people.
- Water Meter should be installed at every building of institute for monitoring of water consumption.
- Prepared water flow diagram to quantify water use at various locations.



## Photographic Evidences



Garden Area



Garden Area





Garden Area



Trees



**Water Source**



**Trees**





**Main Gate**



Dustbin



WTP



## 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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