



# ENVIRONMENT AUDIT REPORT FOR IDEAL INSTITUTE OF PHARMACY



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## Acknowledgement

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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 Pharmacy  |
| <b>College Address</b>               | Plot no 40, Posheri village, Pimplaj road,<br>Taluka Wada, District Palghar - 421303 |
| <b>Execution Partner</b>             | ELION Technologies & Consulting Pvt Ltd  |
| <b>Communication Address</b>         | 307, 3rd Floor<br>DDA Lal Market<br>H-Block Vikas Puri, New Delhi - 110018           |
| <b>Date of Audit</b>                 | 20 <sup>th</sup> January 2024  |
| <b>Year of Audit</b>                 | 2023 - 2024  |
| <b>Audit Participants</b>            | Ideal Institute of Pharmacy  |
| <b>Total Covered Area of College</b> | 60,000 Sq. Feet  |
| <b>Total Green Area</b>              | 10 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

IDEAL FOUNDATION is a nonprofit, community-based educational institute is a best private college located at Poshari, Palghar Maharashtra. It owes its genesis to the establishment of the ideal foundation Educational Society in Palghar in the year 2013. Ideal foundation is the best multi-disciplinary, student-centric, research-focused college in Maharashtra, India. The Foundation has worked to support the educational and social development of communities throughout Maharashtra. The Ideal Education Foundation aims to enhance the well-being of our communities via educational and leadership development, while also promoting civic engagement. The Foundation collaborates with private and public philanthropic, corporate and community organizations to build individual, family and community capacity among the recipients of its programmatic thrusts.

IDEAL INSTITUTE OF PHARMACY is now a one-of-a-kind center of excellence in Maharashtra for pharmaceutical education and research.

Education opens doors as usual, wherever you go in the world. From our State-recognized college to our innovative teaching approach and the leading minds who deliver it, we have what you need to reach your potential. The Ideal college of Pharmacy has been the preferred choice for most of the important minds in recent years. One in four students has studied in the Ideal institution, so if you're dreaming of achieving big things, you can be sure you're in the right place in the Maharashtra.

Degree from Ideal college of Pharmacy is respected throughout India, and the choice of subjects you can study is extensive. ...our standard is highly regarded, with experts on many academic topics and our college is in top most searched Pharmacy colleges in India.

### **Mission**

To create intellectually stimulating environment, promote excellence in teaching, research and extension activities and facilitate academic freedom, diversity and harmony.

### **Vision**

To be a world class college committed to create and disseminate knowledge for human development and welfare.

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

- M. Pharmacy
- B. Pharmacy
- D. Pharmacy



## 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 - 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?

No

What is the total permanent population of the Campus?

|  | Male | Female | Total |
|--|------|--------|-------|
| Students   | 239  | 315    | 554   |
| Teachers   | 20   | 16     | 36    |
| Non-Teaching Staff   | 15   | 16     | 31    |
| Sub Total  | 274  | 337    | 621   |
| Approximate Number of Visitors (Per day)                           |      |        | 2     |
| What is the total number of working days of your campus in a year? |      |        | 298   |

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                             | Yes |
| 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 | No  |



## I - WASTE MINIMIZATION AND RECYCLING

|    |   |  |
|----|---|--|
| 1. | Does your campus generate any waste?<br>If so, what are they?   | Canteen Waste  |
| 2. | What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)   | 2 - 3 kg/month   |
| 3. | How is the waste generated in the campus managed? By<br>1 Composting<br>2 Recycling<br>3 Reusing<br>4 Others(specify)             | Recycling  |
| 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  | 2000  |
| 4. | Provide some names of trees and plants in the campus.                       | <b>Shami, Babul, Rose, Jamun, Mango, Saptaparni, Papita, Rudraksh, Chirata, Chandan, Kanchnar, Palash, Harsingar, Shtavari, Champa, Neem etc.</b> |
| 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) | 400   |
| 7. | Number of Trees Planted in Last year.                                       | 415   |
|    | Survival Rate   | 90%   |
| 8. | Plant Distribution Program for Students and Community                       | Yes   |
| 9. | Plant Ownership Program   | Yes   |



**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>1. LPG is used for cooking purpose in the college canteen.</p> <p>2. Electricity for running all the electrical equipment's like, motors, pumps, computers, machines, lights and fans.</p> |
| 2. | Are there any energy saving methods, equipments, techniques employed in your campus? If yes, please specify. If no, suggest some   | Yes five star AC ,led lights used, Banner and poster to save energy   |
| 3. | Give an estimate of number of lights installed in your campus along with numbers?  | 1372  |
| 4. | Are any alternative energy sources employed/ installed in your campus? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.          | Solar energy – 10KW   |
| 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?  | <ol style="list-style-type: none"> <li>1. Drinking &amp; Cooking in canteen</li> <li>2. Irrigation for Garden</li> <li>3. Washing &amp; Cleaning</li> <li>4. Washrooms</li> </ol>   |
| 2. | <p>How does your campus store water?<br/>(mention tanks with capacity)</p> <p>Are there any water saving techniques followed in your campus?</p>  | 10,000 Liters.  |
| 3. | If there is water wastage, specify why and how can the wastage be prevented/ stopped?   | Nil   |
| 4. | <p>Locate the point of entry of water and point of exit of waste water in your campus.</p> <p>Entry-</p> <p>Exit-</p>   | <p>Entry – Ground Water</p> <p>Exit – Through sewage line (Municipality)</p>  |
| 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>• Put a plastic bottle in your toilet tank.</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> </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, 10000 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)                            | 2 – 3 per room |   |      |       |       |
| 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 |      |       |       |
| 4. | Provide details of institute-owned motorized vehicles?                                 | Buses          | Cars  | Vans | Other | Total |
|    | No. of vehicles  | -              | -   | -    | -     | -     |
|    | No. of vehicles more than five years old   | -              | -   | -    | -     | -     |
|    | No. of Air-conditioned vehicles  | -              | -   | -    | -     | -     |
|    | PUC done   | -              | -   | -    | -     | -     |
| 5. | Specify the type of fuel used by your institute's vehicles:                            | Buses          | Cars  | Vans | Other |       |
|    | Diesel   | 2              | 4   | 1    | -     |       |
|    | Petrol   | 0              | 8   | 5    | -     |       |
|    | CNG  | -              | -   | -    | -     |       |
|    | LPG  | -              | -   | -    | -     |       |
|    | Electric   | 0              | 2   | 1    | -     |       |
| 6. | Air Quality Monitoring Program (If Any)  | Yes            |   |      |       |       |





|    |   |               |
|----|---|---------------|
| 7. | Students suffer from respiratory ailments? (If Any) | Yes           |
| 8. | Details of Diesel/Gas Generator. (Rating & Make)    | 5 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. | Dose Environmental Ambient Air Quality Monitoring conducted by the Campus?                           | Ambient air monitoring is the systematic, long-term assessment of pollutant levels by measuring the quantity and types of  |



|    |  |   |
|----|--|---|
|    |  | certain pollutants in the surrounding, outdoor air. |
| 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?                                     | No  |
| 7. | Dose 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.   | Yes<br><b>Use Reusable Bags.</b><br><ul style="list-style-type: none"> <li>• <b>Print as Little as Necessary.</b></li> <li>• <b>Recycle.</b></li> <li>• <b>Use a Reusable Beverage Containers.</b></li> <li>• <b>Don't Throw Your Notes Away.</b></li> <li>• <b>Save Electricity</b></li> <li>• <b>Save Water.</b></li> <li>• <b>Avoid Taking Cars or Carpool When Possible.</b></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                       | Yes<br><b>Volunteer for Different Projects.</b><br><ul style="list-style-type: none"> <li>• <b>Use Your Creative Potential.</b></li> <li>• <b>Attend a March or Rally.</b></li> <li>• <b>Effective Use of social media.</b></li> <li>• <b>Emphasize on Individual Action.</b></li> <li>• <b>Create Informative Content.</b></li> </ul> |
| 5.  | Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. celebrated in your Campus? | Yes  |
| 6.  | Does Campus participate in National and Local Environmental Protection Movement?                         | Yes  |
| 7.  | Does Campus have any Recognition/certification for environment friendliness?                             | Yes  |
| 8.  | Does Campus use renewable energy?  | Yes  |
| 9.  | Does Institution conduct 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.?   | Yes  |



## Recommendations

- Air Quality monitoring Programme should be implemented and Indoor air Quality Tests shall be carried out yearly.
- Environmental Water and wastewater quality monitoring shall be carried out yearly.
- Water recycling system shall be installed in the campus.
- Water efficient taps shall be used in the campus for saving the water.



## Photographic Evidences



College Main Gate



Plantation





Trees and Plants



Bus



DG



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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.





## 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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