



# GREEN AUDIT REPORT FOR MS COLLEGE OF LAW



## **Elion Technologies & Consulting Private Limited**

307, 3<sup>rd</sup> Floor, DDA Lal Market, H-Block

Vikas Puri, New Delhi-110018

Contact No: +91 9013923982,+91 9013890526

Web: [www.elion.co.in](http://www.elion.co.in).



## Table of Contents

Content	Page No.
Acknowledgement	3
Site Information	4
Overview of Institute	5
Introduction	6
Environment Setting	7
Green Audit	9
Recommendations/Suggestions	13
Annexure 1 – Indoor Gardening Details	15
Disclaimer	18



---

## Acknowledgment

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to MS College of Law for entrusting the task of conducting green audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



## Site Information

<b>Name of College</b>	MS College of Law
<b>College Address</b>	At Devghar, vis Kudus, Taluka Wada, Dist : Palghar
<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>	22th October 2024
<b>Year of Audit</b>	2024 - 2025



## Overview of Institute

A Visionary Er. Mohd. Shoeb Habibullah Khan, founded the Habib Educational & Welfare Society (HEWS) in the year 1993 with the objective of providing quality education & endeavour to bring education for all section of society irrespective of religion, caste & creed.

The college has grown rapidly in a short span creating a niche for itself in the educational field of Mumbai by starting M.S. College of Arts, Science, Commerce & B.M.S., Hotel Management catering to the needs of more than 1500 students.

M.S. College of Law was founded by HEWS in the Year 2012 and is affiliated to University of Mumbai & recognized by Bar Council of India. The College with its rich history, vibrant academic community offers an extra-ordinary environment for studying law. Today we need young minds to study law to take up social cause because it helps to define society's value and provide means to solve problems without resorting to violence.

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

Following are the list of courses offered by the institute:

- LL.B.
- LL.B.
- B.A. LL.B.



## Introduction

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyse environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. 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.

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO<sub>2</sub> from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

### Advantages of Green Audit:

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Some main advantages of green Audit are:

- It helps to shield the environment.
- Minimizing the waste and managing the cost.
- Authenticate conformity with the implemented laws.
- Minimizing the energy consumptions and focus on green and clean energy.
- Ambient Environmental Condition.
- Awareness and Training on Sustainability for Students.
- Awareness about environmental guidelines and duties.



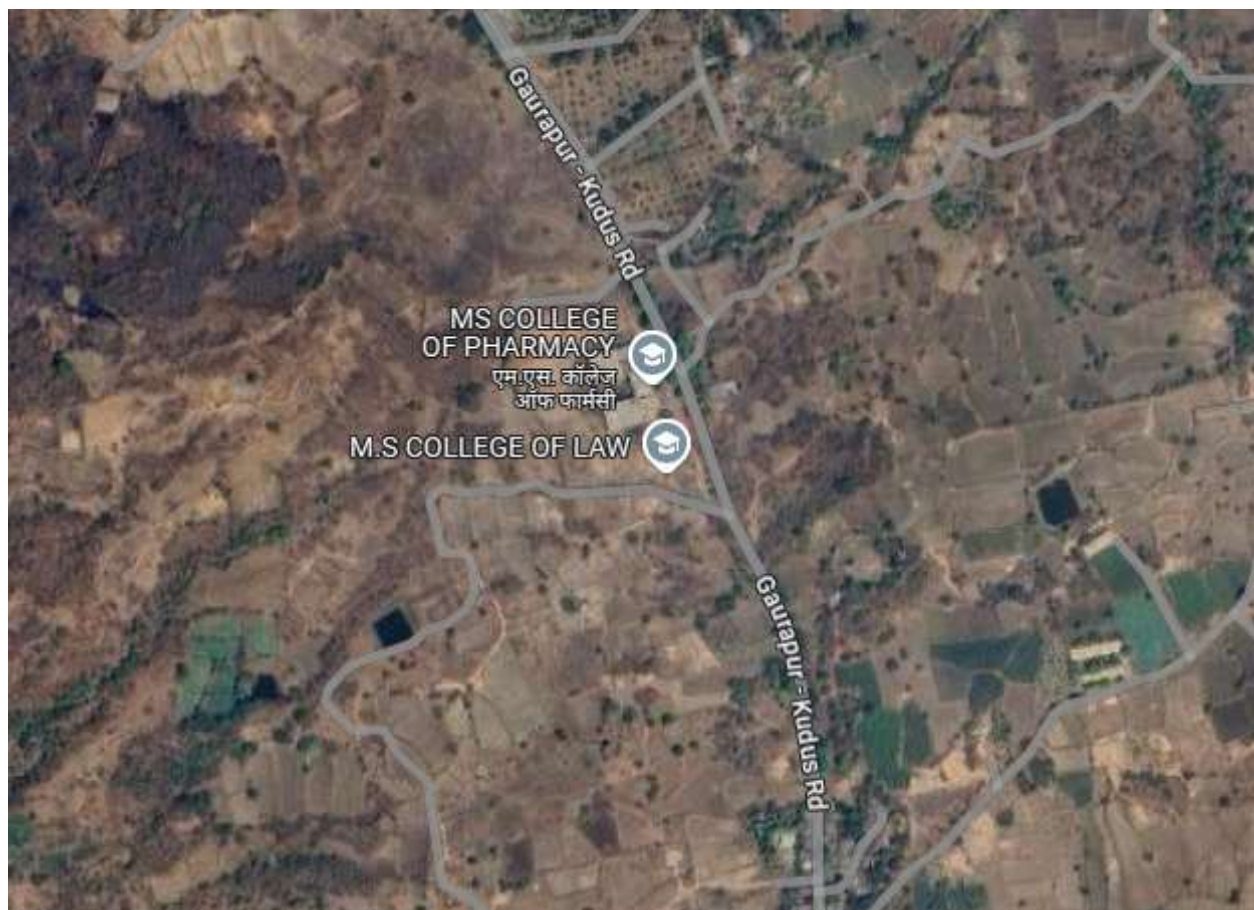


## Environment Setting

The land use around the campus comprise of green and agricultural land with some petrol pumps, stores etc. in nearby areas.



MS College of Law Campus



Location of MS College of Law Campus





## Green Audit

For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Efficiency
- f) On-site Energy Generation
- g) Temperature and Acoustic Control
- h) Paper Waste Management
- i) E-Waste Management
- j) Canteen and Solid Waste Management
- k) Universal Access and Efficient Operation and Maintenance of Building
- l) Green Belt
- m) Green Programs (Green initiatives)

### 3.1 Good Daylight Design and Ventilation

- a) Corridors are wide with good ceiling height. All the corridors receive good daylight.
- b) Classrooms have large windows. Adequate daylight is received through the windows during daytime.
- c) Classroom walls, corridors and other areas are white-washed, this enhances the daylight received.
- d) Washrooms are provided with exhaust fans to disperse heat, fumes and odors.
- e) Curtains are provided in some of the windows to prevent glare.
- f) Stair cases receive daylight through windows provided at various levels.



Daylight in classrooms & Laboratory



### 3.2 Water Efficiency:

- a) Water from local municipal is the only source of water supply in the campus.
- b) Water is then stored in overhead tanks of capacity 5000 litres each.
- c) Water coolers are used for drinking water in the campus.
- d) Normally mops are used for floor cleaning and hose is used for cleaning once a week.
- e) Dual flushing system is not provided in the washrooms. It is recommended to opt for the same in future.
- f) Signages for water conservation are not provided in washrooms.
- g) Water from air conditioning unit is not used anywhere. It is recommended to use these water for gardening or irrigation.



**Water Coolers**

### 3.3 Wastewater Management:

- a) Sewage treatment plant is not available in the campus.

### 3.4 Indoor Air Quality;

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutant are listed as below:

- Molds and other allergens – This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.
- Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Volatile organic compounds (VOCs) – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.



- Carbon dioxide – Due to human respiration
- Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality are as below:

- a) The mode of ventilation in classrooms is natural and is enhanced by fans. Some of the rooms are equipped with Air Conditioners.
- b) Indoor plants are available inside the campus premises. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits. Refer Annexure 1 for details.
- c) Indoor air quality tests are not carried. It is recommended to get air quality tested once a year.
- d) Exhaust fans are provided in washrooms for dispersion of heat and odors.

### **3.5 Energy Efficiency:**

#### **Electricity:**

Power is supplied by local distribution company. The major electricity consuming equipment installed in the campus are Air Conditioners, Water Coolers, Pumps, Lighting, Fans, Desktop, Printers etc.

### **3.6 On Site Energy Generation (usage of LPG/ Natural Gas):**

- a) LPG is used for cooking in the mess/canteen.
- b) DG Set of rating 5KVA is used in the campus.

### **3.7 Temperature and Acoustic Control**

- a) White washed rooms & corridors and white/off-white flooring improve the lighting conditions.
- b) The campus has done tree plantation all around the campus such as parking, main gate etc. which helps in reducing ambient temperature.
- c) There is no noise pollution inside and around the campus.

### **3.8 Paper Waste Management:**

- a) Prints and photocopies are taken on both sides of the pages to avoid excess paper usage. Rather than photocopy, digitalization (scanning) is practiced.
- b) Internal notices and communications are through E-mail/Whatsapp.
- c) Faculty and administration staff uses old papers and envelopes for internal usages as rough work, file markers, page separators etc.



- d) Currently, there is no provision for disposal of old papers. Policy for disposal of old papers shall be made and follow.

### **3.9 E-Waste Management:**

- a) E-waste policy is not present in the campus.

### **3.10 Solid Waste Management:**

It was observed that:

- a) Wet waste and dry waste segregation is practiced in the premises. Separate bins are provided for wet biodegradable and dry recyclable waste.
- b) Waste is disposed through composting inside the campus.



**Dustbins provided**

### **3.11 Universal Access and Efficient Operation and Maintenance of Building:**

It was observed that:

- a) College is easily accessible. Staircase and ramps are provided for staff and students.
- b) Since the access and staircases are wide and uncluttered, it is possible to have a safe evacuation during emergency.
- c) Firefighting equipments are provided for emergency.
- d) Directional exit signages and floor markings shall be provided in the campus.
- e) Regular Fire Safety Trainings is given to staff and students on annual basis.

### **3.12 Green Initiatives:**

College is regularly celebrating important days such as Environment Day, Yoga Day, Earth Day etc as well as other cultural programs.



## Recommendations/Suggestions

### For Improving Energy Consumption:

- a) Every classroom and lab with central switch board can have a diagram linking location of a tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.
- b) Installation of automatic lights with sensors can be considered.
- c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing. Equipment with star rating, using eco-friendly materials; with safe disposal policy to be preferred. Policy of returning equipment at the end of life span to the supplier to be preferred.
- d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.
- e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.
- f) If possible, computers should be switched off from main power connections.
- g) Notices/signages can be put up/displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use.
- h) Control sensors can help to reduce consumption by automatically dimming lights when people are not around, and keeping blinds open to use natural light & reduce energy consumption.
- i) Raise awareness:
  - Encourage students to help in monitoring energy consumption & implement corrective actions
  - Integrate energy education into classroom learning.

### Water Conservation:

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- c) Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- d) Installation of waterless urinals can be considered to reduce water consumption.
- e) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.





### **Paper and other Solid Waste Reduction:**

- a) Inventories of all solid waste generated in the premises must be maintained.
- b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.
- c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared & practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.
- d) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.
- e) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.
- f) Paper usage shall be monitored to understand the impact of digitization in the facility.





### **Others:**

- a) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- b) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.
- c) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc.). Short 30 second pop up can be displayed on computer screens when they are on standby mode. Or wallpapers informing students about environment conservation can be created.
- d) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- e) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.







## Annexure 1 – Indoor Gardening Details





Indoor plants are commonly used for their aesthetics benefits but they also have vital role reducing airborne pollution. The right choice of plants can be an excellent way of improving indoor air quality and general health. Local landscape contractor can be contacted for supply and rotation of these plants.

Plants	VOC it removes	Indoor source of VOC's	Plant care
 <b>Aloe Vera</b>	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
 <b>Bamboo Plant</b>	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
 <b>Chinese Evergreen</b>	Benzene	Paints	Low maintenance plant that prefers low light conditions.
 <b>English Ivy</b>	Formaldehyde, Benzene, Air borne fecal matter particles	Wood, Paper products, Air borne fecal – matter particles from pests	Easy to maintain



 <p>Janet Craig</p>	<p>Formaldehyde, Benzene and Trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>
 <p>Golden Pothos or Devils Ivy</p>	<p>Formaldehyde, Cleanses air</p>	<p>Exhaust fumes, carpeting materials, panelling and furniture products made with particle board</p>	<p>Extremely easy to maintain under low to bright light conditions. Fast growing and grows well under Fluorescent light.</p>
 <p>Mass Cane</p>	<p>Formaldehyde, benzene and trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>
 <p>Snake plant</p>	<p>Formaldehyde and trichloroethylene</p>	<p>cooking fuels, wood products, facial tissues, personal care products and waxed papers</p>	<p>Drought resistant and Tolerates a variety Of light conditions. Hard to damage or kill.</p>



 <p>Peace Lily</p>	Formaldehyde, benzene and trichloroethylene	Paints, Plastics, Wood products etc.	Relatively easy to maintain. Survives in low light conditions.
 <p>Red-edged Dracaena</p>	Formaldehyde and trichloroethylene	cooking fuels, wood products, facial tissues, personal care products and waxed papers	Drought resistant and Tolerates a variety of light conditions. Hard to damage or kill.
 <p>Spider Plant</p>	Formaldehyde, benzene, carbon monoxide and xylene	cooking fuels, wood products, Printing	Easy to maintain under medium to bright light condition.
 <p>Parlor Palm</p>	Purifies indoor air	-	Easy to maintain



---

## **Elion Technologies & Consulting Private Limited**

Registered Office:

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

Vikas Puri, New Delhi-110018

Phone No: 011-28541888, 9013890526

Email: support@elion.co.in

Website: www.elion.co.in

### **DISCLAIMER**

All information contained in this report is based on the data available and observations made during the audit. All recommendations made in this audit report should be duly evaluated by the management before implementation.

No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein. This report may not address every possible loss potential, violation of any laws, rules or regulations, or exception to good practices and procedures. The absence of comment, suggestion, or recommendation does not mean the property or operation(s) is in compliance with all applicable laws, rules, or regulations, is engaging in good practices and procedures, or is without loss potential. No responsibility is assumed for the discovery and/or elimination of hazards that could cause accidents or damage at any facility that is subject to this report.