QUALITY360

AUDIT & ADVISORY

(Registration No:- UDYAM-MH-33-0728710)

Green Audit Report

For the year 2023-24 to 2024-25
As per ISO 14001:2015

Shri Vile Parle Kelavani Mandal's Pravin Gandhi College of Law, Mumbai, Maharashtra

Audit conducted by
Quality 360 Audit and Advisory

Lead Auditor - Dr. Amelia Antony

Certification Number - TVEEN06DA7169

Date of visit - 15/11/2025

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Green Audit Report

As per ISO 14001:2015

Academic Year 2023-24 & 2024-25

1. Introduction

Green auditing is a systematic approach to evaluating performance based on Green initiatives in an institution. This report identifies the environmental impact of **Shri Vile Parle Kelavani Mandal's Pravin Gandhi College of Law, Mumbai** and recommends strategies for improvement in compliance with **ISO 14001:2015**.

2. Scope of the Audit

The audit covers:

- Energy consumption
- Water usage
- Waste management
- Biodiversity and green cover
- Carbon footprint
- Environmental compliance

3. Methodology

- On-site inspection
- Data collection through questionnaires and interviews
- Analysis of electricity, water, and waste records
- Stakeholder consultations

4. Profile of the Institute

4.1 Academic Programs

Program Type	Courses Offered	Duration	Number
Undergraduate	BA.LL. B	5 years	120 students/ batch
Postgraduate	LL.M	2 years	60 students/batch
Diploma	Cyber Law	1 year	50 students/batch
Certificate	-	-	-

4.2. Infrastructure

Facility	Description	Availability
Classrooms	Smart classrooms with projectors and digital boards	13
Library	Digital and physical books, research journals	Yes
Laboratories	Computer Lab	2
Hostels	Separate for boys & girls, Wi-Fi, mess facilities	No
Sports Complex	Indoor & outdoor sports, gym, yoga room	3
Cafeteria	Hygienic and diverse food options	Yes
IT Facilities	High-speed internet, e-learning portals	Yes

4.3. Student Support Services

Service Type	Description	Availability
Career Counseling	Guidance on career options, resume building, internships	Yes
Academic Support	Remedial classes, tutoring sessions	Yes
Health & Wellness	Medical check-ups, mental health support	Yes
Financial Aid	Scholarships	Yes
Placement Assistance	Training programs, job fairs, campus interviews. Dedicated Placement Cell with dedicated placement team	Yes

4.4. Green Initiatives

Initiative	Description	Implementation Status
Renewable Energy	Solar panels, energy-efficient lighting	Yes- implemented
Waste Management	Recycling bins, waste segregation	Yes- implemented
Water Conservation	Rainwater harvesting, low-water usage taps	Yes- implemented
Green Campus	Tree plantation drives	Yes- implemented
Sustainable Transport	Bicycle zones, carpooling, EV charging stations Availability of subsidy for train passes	No Yes
Activities/programs on Green Initiatives	-	Yes- implemented

5. Findings and Observations

5.1 Energy Management

- Total annual energy consumption: 3158674 kWh
- Renewable energy usage: 14826 kWh % from solar

Recommendations –

- Increase the share of renewable energy by installing additional rooftop solar photovoltaic systems.
- Replace conventional lighting with LED lighting systems in all departments and common areas.
- Conduct periodic energy audits to identify high-energy-consuming equipment and operational inefficiencies.
- Install energy-efficient HVAC systems and maintain them regularly for improved performance.
- Introduce automatic sensors, timers, and smart energy monitoring systems to reduce unnecessary electricity usage.
- Promote energy conservation awareness among students and staff through training and campaigns.

5.2 Water Management and Water Conservation.

- Total water consumption: **1,54,383** liters per month
- Rainwater harvesting system: Status-Active

Recommendations –

- Regularly maintain and clean the rainwater harvesting system to ensure efficient operation.
- Install water-efficient fixtures such as sensor taps, low-flow faucets, and dual-flush toilets.
- Reuse treated wastewater for gardening, landscaping, and cleaning purposes wherever feasible.
- Conduct routine inspections to identify and prevent water leakage and wastage.
- Create awareness programs on water conservation practices for students and staff.
- Maintain records of monthly water consumption and establish water-saving targets.

5.3 Waste Management

- Total solid waste generated: 1200 kg/month
- Segregation efficiency: 65%

Recommendations –

- Improve waste segregation efficiency by providing color-coded bins across the campus.
- Conduct regular awareness programs on proper waste segregation and disposal practices.
- Promote recycling and reuse of paper, plastic, glass, and metal waste materials.
- Install composting units for biodegradable and food waste management.
- Minimize single-use plastic usage within the campus premises.
- Monitor waste generation trends regularly and implement reduction strategies.

5.4 Green Cover and Biodiversity

- Total green cover: 0.06 acres
- Tree count: 71
- Animal Count: 0

Recommendations –

- Increase plantation activities to enhance campus green cover and biodiversity.
- Introduce native and drought-resistant plant species for sustainable landscaping.
- Develop herbal gardens and biodiversity zones within the campus.
- Conduct regular tree plantation and environmental awareness drives involving students and staff.
- Install bird feeders and water stations to encourage small bird and butterfly populations.

- Maintain proper irrigation and care practices for long-term survival of planted trees and vegetation.

5.5 Carbon Footprint: NA

- CO_2 emissions from electricity usage: **NA**
- Transport emissions: **NA**

6. Recommendations and Action Plan

Sr. No.	Area / Aspect	Observation	Recommended Action (ISO 14001:2015 Based)	Responsibility	Time Frame	Monitoring Method
1	Energy Management	High annual electricity consumption	Install additional rooftop solar PV systems to increase renewable energy contribution	Management / Electrical Department	6–12 Months	Monthly energy consumption review
2	Energy Management	Conventional energy usage in some areas	Replace remaining conventional lighting with LED and energy-efficient appliances	Maintenance Department	3–6 Months	Energy audit and inspection
3	Energy Management	Lack of automated energy control	Install motion sensors, timers, and smart energy monitoring systems	Electrical Department	6 Months	Monitoring through smart meters
4	Energy Management	Need for awareness on energy conservation	Conduct regular awareness and training programs for staff and students	Green Audit Committee	Quarterly	Attendance records and feedback
5	Water Management	High water consumption	Install low-flow taps, sensor-based fixtures, and dual-flush systems	Maintenance Department	3–6 Months	Monthly water consumption records
6	Water Management	Potential water leakage and wastage	Conduct routine inspections and preventive maintenance of pipelines and fixtures	Maintenance Team	Monthly	Leakage inspection reports
7	Water Management	Limited reuse of wastewater	Develop wastewater reuse systems for	Administration / Maintenance	6–12 Months	Reuse quantity monitoring

Sr. No.	Area / Aspect	Observation	Recommended Action (ISO 14001:2015 Based)	Responsibility	Time Frame	Monitoring Method
			gardening and cleaning purposes			
8	Water Management	Need for improved conservation awareness	Organize water conservation awareness campaigns and workshops	Green Campus Committee	Quarterly	Activity reports
9	Waste Management	Segregation efficiency limited to 65%	Provide additional color-coded waste bins across campus	Administration	3 Months	Waste segregation inspection
10	Waste Management	Organic waste management needs improvement	Establish composting or vermicomposting units for biodegradable waste	Maintenance Department	6 Months	Compost generation records
11	Waste Management	Usage of single-use plastics observed	Implement strict reduction and control measures for single-use plastics	College Administration	Immediate & Continuous	Campus inspection
12	Waste Management	Need for better recycling practices	Strengthen recycling programs for paper, plastic, and e-waste	Waste Management Committee	Continuous	Recycling vendor records
13	Green Cover & Biodiversity	Limited green cover area	Increase plantation drives and develop additional green zones	NSS / Green Committee	Annual	Plantation records
14	Green Cover & Biodiversity	Lack of native plant diversity	Introduce native and drought-resistant plant species	Horticulture / Garden Committee	6 Months	Biodiversity assessment
15	Green Cover & Biodiversity	Limited biodiversity conservation measures	Develop herbal gardens and biodiversity conservation areas	Green Campus Committee	6–12 Months	Periodic biodiversity survey

Sr. No.	Area / Aspect	Observation	Recommended Action (ISO 14001:2015 Based)	Responsibility	Time Frame	Monitoring Method
16	Green Cover & Biodiversity	No animal or bird diversity observed	Install bird feeders, nest boxes, and water stations to attract birds and butterflies	Green Committee	3–6 Months	Observation and monitoring
17	Air Quality & Pollution Control	No air quality monitoring system	Install basic air quality monitoring mechanisms within campus	Administration	6 Months	Air quality reports
18	Sustainable Practices	Limited sustainable transport initiatives	Promote bicycle use, carpooling, and EV-based transportation facilities	Administration	6–12 Months	Transport usage records
19	Carbon Footprint	Carbon emissions data not available	Conduct carbon footprint assessment and maintain emission inventory records	Environmental Cell	Annual	Carbon audit reports
20	Environmental Compliance	Need for continual ISO improvement	Conduct periodic internal environmental audits as per ISO 14001:2015 requirements	Internal Audit Committee	Annual	Audit reports and CAPA records

7.Conclusion

The Green Audit conducted as per ISO 14001:2015 guidelines indicates that the institution has taken several positive initiatives toward environmental sustainability and green campus development. The implementation of renewable energy practices, rainwater harvesting systems, waste segregation methods, and tree plantation activities demonstrates the institution's commitment to environmental management and sustainable development.

The audit findings reveal that the institution has established basic environmental management practices in areas such as energy conservation, water management, waste handling, and biodiversity conservation. The use of solar energy systems, LED lighting, water-saving measures, recycling initiatives, and green campus activities contributes positively toward reducing environmental impact.

However, certain areas require further improvement, including enhancement of renewable energy utilization, strengthening waste segregation efficiency, reduction of single-use plastics, improvement in air quality monitoring systems, and development of carbon footprint assessment mechanisms. Increasing green cover, promoting sustainable transportation, and implementing composting practices will further strengthen environmental performance.

Overall, the institution is progressing satisfactorily toward achieving sustainable environmental practices and compliance with ISO 14001:2015 requirements. With continuous monitoring, awareness programs, and implementation of the recommended action plans, the institution can significantly improve its environmental sustainability performance and develop into a more eco-friendly and resource-efficient campus.

8. Checklists

8.1. Environmental Policy & Compliance

Question	Yes/No	Remarks if any
Does the institution have a documented Environmental Policy?	✓	On college Website
Is the policy communicated to students, staff, and stakeholders?	✓	On college Website
Does the institution comply with local and national environmental laws?	✓/	yes
Are periodic environmental audits conducted?	✓	Yes

8.2. Energy Management

Question	Yes/No	Remarks if any
Is there a system to monitor energy consumption?	✓/	Yes
Is energy derived from renewable sources?	✓	Yes, solar panel
Are energy-efficient appliances and LED lighting used?	✓	yes
Are energy conservation awareness programs conducted?	✓	yes

8.3. Water Management

Question	Yes/No	Remarks if any
Does the college have a water management plan?	✓	Yes
Is rainwater harvesting implemented?	✓	yes
Is wastewater treated and reused?	✓	yes
Are water-saving fixtures installed (low-flow taps, dual-flush toilets, etc.)?	✓	yes
Are water meters installed for monitoring usage?	✓/	yes

8.4. Waste Management

Question	Yes/No	Remarks if any
Is waste segregated at source (biodegradable, non-biodegradable, e-waste, hazardous waste)?	✓	Biodegradable food waste, paper waste, e-waste
Is there a composting system for organic waste?	✓/	No
Is there a recycling program for paper, plastic, and metal waste?	✓	yes
Are single-use plastics banned on campus?	✓/✗	NO
Does the institution have a structured e-waste disposal policy?	✓/✗	yes

8.5. Air Quality & Pollution Control

Question	Yes/No	Remarks if any
Is air quality monitored on campus?	✓/	NO
Are emission control measures implemented for campus vehicles?	✓/	NO
Are there designated pedestrian and cycling paths?	✓/	NO
Are green cover and plantations maintained to improve air quality?	✓	yes

8.6. Biodiversity & Green Campus Initiatives

Question	Yes/No	Remarks if any
Are native and drought-resistant plant species planted?	✓/	no
Does the institution have a botanical or medicinal plant garden?	✓/	yes
Are green spaces maintained for biodiversity conservation?	✓/	no
Are there regular tree plantation drives?	✓/	yes

8.7. Sustainable Practices

Question	Yes/No	Remarks if any
Is a paperless administration system encouraged?	✓	Examination conducted online where possible, internal assignments online

Question	Yes/No	Remarks if any
Are eco-friendly materials used in construction and procurement?	✓/✗	NA
Are sustainable transport options (bicycles, EVs, carpooling) promoted?	✓/	Yes, train and bus passes are reimbursed
Is there a policy to reduce carbon footprint?	✓/✗	No

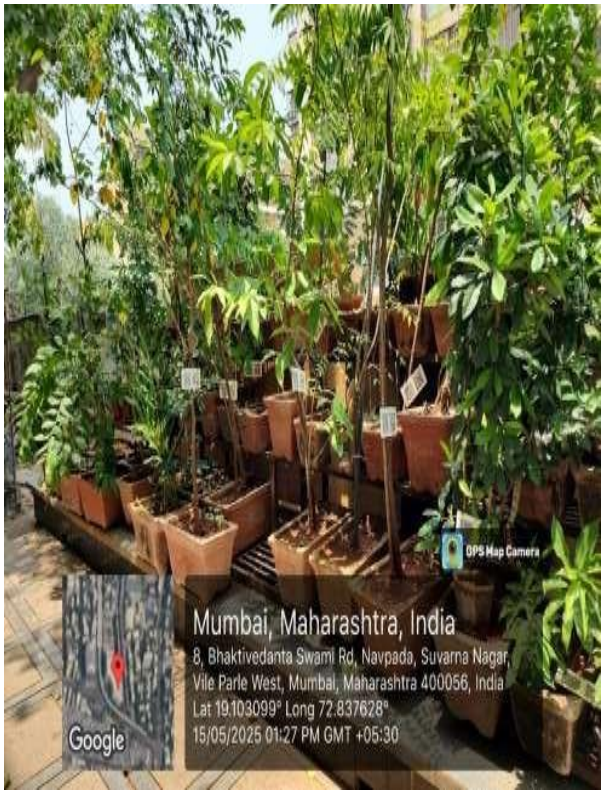
8.8. Legal & Regulatory Compliance

Question	Yes/No	Remarks
Is the institution compliant with all environmental laws and ISO 14001:2015 guidelines?	✓/✗	
Are environmental impact assessments conducted periodically?	✓	yes
Are records maintained for energy, water, and waste audits?	✓	yes

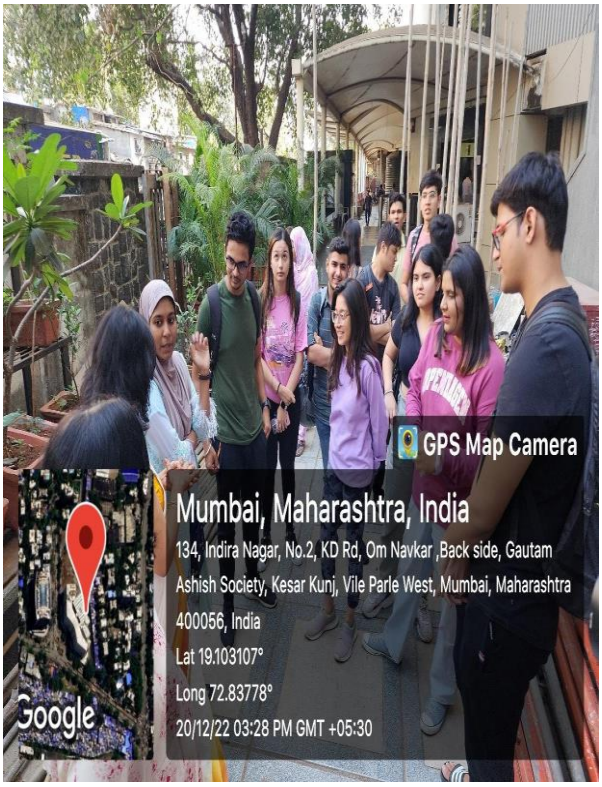
8.9 Campus flora and fauna

Category (Flora/Fauna)	Common Name	Scientific Name	Location on Campus
Flora	Spider Plant	Chlorophytum comosum	Office Desks / Low-light areas
Flora	Snake Plant	Dracaena trifasciata	Office Desks / Low-light areas
Flora	Areca Palm	Dypsis lutescens	Entrance Gates / Patios
Flora	Money Plant (Pothos)	Epipremnum aureum	Window sills
Flora	Aloe Vera	Aloe barbadensis miller	Medicinal Garden
Flora	Holy Basil (Tulsi)	Ocimum tenuiflorum	Office
Flora	Jade Plant	Crassula ovata	Window sills
Flora	Zanzibar Gem (ZZ Plant)	Zamioculcas zamiifolia	Window sills
Flora	Periwinkle (Sadaphuli)	Catharanthus roseus	Roadside borders
Flora	Asparagus Fern	Asparagus setaceus	Window sills
Flora	Croton	Codiaeum variegatum	Window sills
Flora	Rubber Plant	Ficus elastica	Window sills
Flora	Curry Leaf Plant	Murraya koenigii	Medicinal Garden

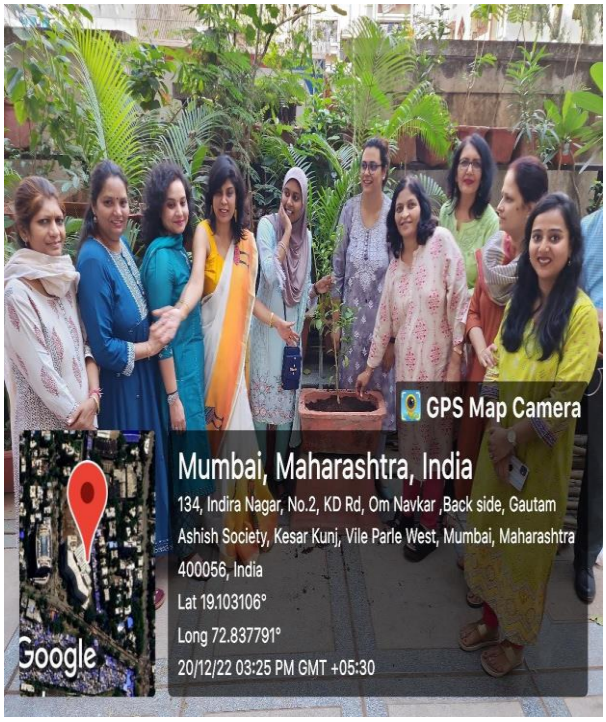
9. Photographic Evidences.



Medicinal Plant



Tree plantation



Tree plantation

Recycling Plastic Bottles

Waste Segregation

Water Testing

Water Harvesting

Fire Safety Equipment

Awareness Posters

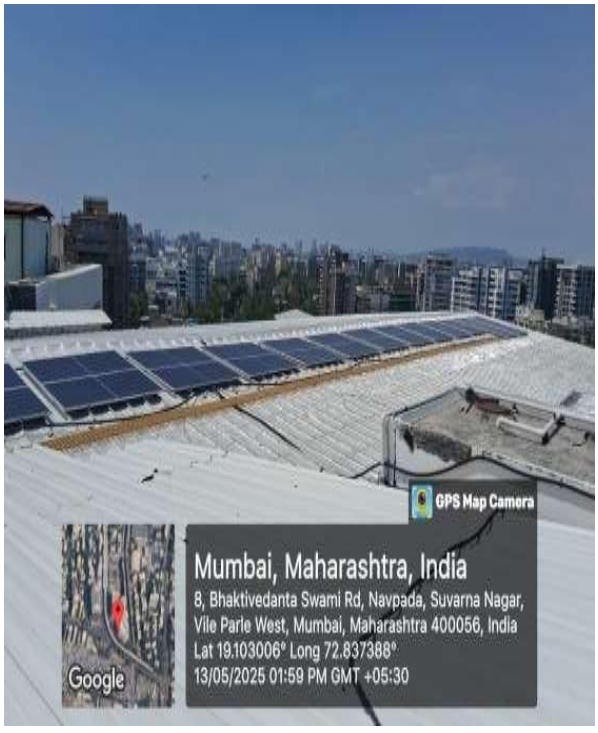
Awareness Posters

Versova Beach for a cleanup

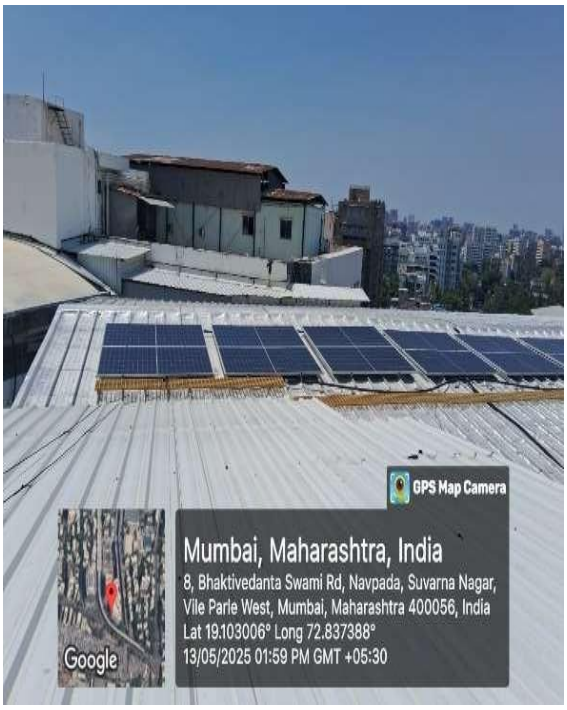
Coastal Cleanup to celebrate Annual Coastal Cleanup Day

Multi-Layered Plastic Collection (MLP) Recycling Drive

Workshop on Rainwater Harvesting



Solar panel



Solar panel

10. Overall Recommendations

- Strengthen the Environmental Management System (EMS) framework in accordance with ISO 14001:2015 requirements through regular monitoring, documentation, and review mechanisms.
- Increase the contribution of renewable energy by expanding rooftop solar power installations and adopting additional energy-efficient technologies.
- Conduct periodic energy, water, and waste audits to identify improvement opportunities and ensure continual environmental performance enhancement.
- Implement advanced energy conservation measures such as smart meters, motion sensors, automated lighting systems, and energy-efficient HVAC equipment.
- Improve water conservation practices through regular maintenance of rainwater harvesting systems, wastewater reuse, and installation of water-efficient fixtures.
- Enhance waste segregation efficiency by providing adequate color-coded bins and promoting systematic waste management practices across the campus.
- Establish composting and organic waste treatment facilities to reduce biodegradable waste disposal burden.
- Enforce stricter measures to minimize or eliminate single-use plastics within the campus premises.
- Increase campus green cover by conducting regular tree plantation drives and developing biodiversity conservation zones with native plant species.
- Introduce bird feeders, herbal gardens, and eco-friendly landscaping practices to improve biodiversity and ecological balance on campus.
- Develop air quality and carbon footprint monitoring systems to evaluate environmental impact and support sustainability goals.
- Promote sustainable transportation practices such as cycling, carpooling, public transport use, and future EV infrastructure development.
- Organize regular environmental awareness programs, workshops, and training sessions for students, faculty, and staff to encourage active participation in sustainability initiatives.
- Maintain proper records and documentation related to environmental performance indicators, audit findings, corrective actions, and legal compliance requirements.
- Establish a dedicated Green Campus or Sustainability Committee to ensure effective implementation, monitoring, and continual improvement of environmental initiatives.

Sign and Seal

Dr. Amelia Antony Lead Auditor

ISO 14001, Certification Number TVEEN06DA7169