QUALITY360

AUDIT & ADVISORY

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

Environmental 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

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ENVIRONMENTAL AUDIT REPORT

As per ISO 14001:2015

(Academic Year 2023-24 and 2024-25)

1. Executive Summary

This environmental audit of **Shri Vile Parle Kelavani Mandal's Pravin Gandhi College of Law, Mumbai,** was conducted to assess compliance with ISO 14001:2015 and identify areas for improvement in environmental management. The audit covered waste management, water consumption, pollution control, and biodiversity initiatives.

Key strengths included proper waste segregation and a well-maintained green campus, while improvements were suggested in energy conservation and wastewater treatment.

2. Introduction

Purpose of the Audit

The primary objective was to evaluate the college's Environmental Management System (EMS) in compliance with ISO 14001:2015 and local environmental laws. The goal is to identify environmental risks, assess performance, and recommend action for continual improvement.

Scope of the Audit

- Campus area: 20000 sq. ft. Approx.
- Departments covered: **Administration, Library, Laboratories and Outdoor Spaces**
- Key aspects: Environment, water, waste, pollution, biodiversity

Methodology

- Site inspection and observations
- Review of environmental policies and records
- Interviews with staff and students
- Measurement of air, water, and noise pollution

3. College Profile:

Parameter	Detail
Institution Name	Shri Vile Parle Kelavani Mandal's Pravin Gandhi College of Law, Mumbai
Year of Establishment	2004
Total Campus Area	20000 sq. Ft. Approx.
Affiliation	University of Mumbai
Total Student Count	Total students= 662
Total Staff Count	Total Staff = 32
Buildings	1, Mithibai College

4.Environmental Management System (EMS) Review

Sr. No.	EMS Element	Existing Status / Observations	Compliance Status	Remarks / Recommendations
1	Environmental Policy	The institution has established an environmental policy focused on sustainable practices, pollution prevention, waste management, and environmental awareness activities.	Implemented	Policy should be periodically reviewed and communicated to all stakeholders for continual improvement.
2	EMS Committee and Responsibilities	Environmental management responsibilities are managed through institutional administration and environmental awareness initiatives.	Partially Implemented	A formal EMS committee with defined roles and responsibilities should be strengthened and documented.
3	Identification of Environmental Aspects and Impacts	Key environmental aspects identified include water consumption, waste generation, air quality, noise levels, and green campus initiatives.	Implemented	Periodic environmental aspect-impact assessment should be conducted and updated annually.
4	Legal and Regulatory Compliance	The institution follows requirements related to Air Act, Water Act, and waste management practices with partial compliance under hazardous waste management.	Partially Complied	Formal documentation, records, and periodic compliance reviews should be maintained regularly.
5	Water Management System	Water consumption monitoring, rainwater harvesting measures, leak prevention, and water-saving devices are implemented.	Complied	Installation of additional water meters and reuse of treated wastewater for gardening are recommended.
6	Waste Management System	Waste segregation practices for biodegradable, recyclable, and e-waste are followed across the campus.	Implemented	Hazardous waste labeling, storage practices, and authorized disposal records should be improved.

Sr. No.	EMS Element	Existing Status / Observations	Compliance Status	Remarks / Recommendations
7	Air Pollution Control Measures	Promotion of public transport, no open burning practices, DG set maintenance, and green initiatives are followed.	Partially Complied	Periodic ambient air quality monitoring and maintenance of air quality records are recommended.
8	Noise Pollution Monitoring	Noise observations indicate moderate to high urban noise levels due to traffic and surrounding activities.	Monitored	Noise mitigation measures such as awareness signage and green barriers may be enhanced.
9	Biodiversity and Green Initiatives	Tree plantation, green landscaping, environmental awareness programs, and sustainability initiatives are undertaken.	Implemented	Increase green cover percentage and conduct regular plantation drives within campus premises.
10	Emergency Preparedness and Safety	Fire extinguishers and basic safety arrangements are available in institutional premises.	Partially Implemented	Emergency response procedures and environmental emergency training should be formally documented and practiced.
11	Environmental Awareness and Training	Environmental awareness programs, sustainability campaigns, and student participation activities are conducted.	Implemented	More frequent training sessions and environmental workshops should be organized.
12	Monitoring and Record Keeping	Records related to water usage, waste management, and environmental activities are maintained.	Partially Implemented	Comprehensive EMS documentation, audit records, and monitoring reports should be systematically maintained.
13	Continual Improvement	The institution demonstrates commitment toward sustainable environmental practices and improvement initiatives.	Implemented	Internal environmental audits and management reviews should be conducted periodically for continual EMS improvement.

5.Compliance with Legal and Regulatory Requirements

Sr. No.	Regulation	Compliance Status	Remarks
1	Air (Prevention and Control of Pollution) Act, 1981	Partially Complied	The institution has implemented environmental awareness initiatives, waste management practices, green campus measures, and promotes public transport and no open burning practices. DG set maintenance and emission control measures are followed wherever applicable. Ambient air quality observations indicate moderate AQI conditions in the surrounding area.
2	Water (Prevention and Control of Pollution) Act, 1974	Complied	The institution maintains water usage records, rainwater harvesting measures, water-saving devices, drinking water quality monitoring, sewage management systems, and periodic water conservation practices in accordance with applicable environmental requirements.
3	Hazardous Waste Management Rules, 2016	Partially Complied	Significant hazardous waste generation is minimal due to the nature of institutional activities. Waste segregation practices and e-waste disposal measures are followed; however, formal hazardous waste authorization, labeling systems, and dedicated hazardous waste storage facilities are not fully applicable or implemented.

6. Environmental Aspects and Impacts

Sr. No.	Environmental Aspect	Associated Activity / Source	Environmental Impact	Existing Control Measures	Significance Level	Recommended Improvement
1	Water Consumption	Drinking, sanitation, gardening, pantry usage	Depletion of water resources and increased water demand	Rainwater harvesting, water-saving fixtures, leak monitoring, awareness programs	Medium	Install additional water meters and promote wastewater reuse for gardening purposes.
2	Wastewater Generation	Washrooms, pantry, cleaning activities	Water pollution and increased sewage load	Wastewater discharge through municipal sewage system and regular drainage maintenanc e	Medium	Implement treated wastewater reuse and periodic wastewater quality monitoring.
3	Solid Waste Generation	Classrooms, offices, canteen, administrati ve activities	Land pollution and increased municipal waste burden	Waste segregation bins, municipal waste collection, recycling practices	Medium	Strengthen composting and recycling initiatives to minimize landfill disposal.
4	E-Waste Generation	Computers, printers, electronic accessories, cables	Soil and groundwater contamination from improper disposal	Separate storage and disposal through authorized recyclers	Medium	Maintain formal e-waste disposal records and periodic inventory management.
5	Air Emissions	Vehicular movement, DG sets, surrounding	Deterioration of ambient air quality and particulate pollution	Promotion of public transport, green initiatives,	Medium	Conduct periodic ambient air quality monitoring and increase green buffer zones.

Sr. No.	Environmental Aspect	Associated Activity / Source	Environmental Impact	Existing Control Measures	Significance Level	Recommended Improvement
		urban activities		DG set maintenance, no open burning policy		
6	Noise Generation	Traffic movement, institutional activities, generator operations	Noise pollution affecting academic environment and nearby surroundings	Green campus practices and awareness measures	Medium	Install noise control measures and conduct periodic noise monitoring.
7	Energy Consumption	Lighting, computers, air-conditioning, office equipment	Consumption of non-renewable energy resources and carbon emissions	Routine maintenance and energy conservation awareness	Medium	Introduce renewable energy systems and energy-efficient appliances.
8	Paper Consumption	Administrative and academic documentation	Resource depletion and increased solid waste generation	Digital communication practices and waste paper collection	Low	Promote paperless operations and double-sided printing practices.
9	Green Cover and Landscaping	Tree plantation and campus landscaping activities	Positive impact on biodiversity and air quality improvement	Plantation drives, green landscaping, environmental awareness programs	Positive Aspect	Increase green cover percentage and implement biodiversity enhancement programs.
10	Chemical and Hazardous Waste	Limited laboratory and maintenance-related activities	Potential contamination risk if improperly handled	Minimal hazardous waste generation and segregation practices	Low	Develop formal hazardous waste handling, labeling, and storage procedures if applicable.
11	Rainwater Management	Rainwater harvesting and water conservation activities	Groundwater recharge and reduced dependence on	Existing rainwater harvesting measures	Positive Aspect	Enhance rainwater harvesting capacity and periodic maintenance of systems.

Sr. No.	Environmental Aspect	Associated Activity / Source	Environmental Impact	Existing Control Measures	Significance Level	Recommended Improvement
			municipal water supply			
12	Environmental Awareness Activities	Training programs, environmental campaigns, sustainability initiatives	Improved environmental responsibility and sustainable behavior	Awareness programs, green campus initiatives, student participation	Positive Aspect	Conduct regular environmental audits, workshops, and sustainability campaigns.

7. Water Consumption

Sr. No.	Source / Area of Use	Daily Water Consumption (Liters)	Purpose / Remarks
1	Drinking Water	1,286 Liters / Day	For students, faculty, and staff
2	Toilets & Wash Areas	2,572 Liters / Day	Flushing, hand washing, sanitation
3	Gardening & Green Areas	772 Liters / Day	Landscape maintenance and irrigation
4	Canteen & Miscellaneous	516 Liters / Day	Cooking, cleaning, and other general uses
Total		**5,146 Liters / Day**	**As per water audit records**

- **Recommendations**
- The institution should implement water conservation measures to optimize daily water consumption across all operational areas while ensuring adequate availability for students, faculty, and staff.
- For drinking water systems, regular inspection and maintenance of storage tanks, pipelines, and dispensing units should be conducted to prevent leakage and maintain water quality. Installation of sensor-based or push-tap systems may help reduce unnecessary water wastage.
- In toilets and wash areas, the institution should introduce water-efficient fixtures such as dual-flush systems, low-flow faucets, and sensor-operated taps to reduce water consumption associated with flushing and hand washing activities. Periodic monitoring

of plumbing systems should also be carried out to identify and rectify leakage issues promptly.

- For gardening and green areas, the institution should adopt efficient irrigation practices such as drip irrigation or scheduled watering during early morning or evening hours to minimize evaporation losses. Utilization of treated wastewater or harvested rainwater for irrigation purposes may further improve water sustainability.
- In the canteen and miscellaneous usage areas, water-saving practices should be encouraged during cooking, utensil cleaning, and housekeeping activities. Proper maintenance of water pipelines and kitchen equipment should be ensured to avoid unnecessary water losses.
- The institution should strengthen rainwater harvesting and groundwater recharge initiatives to improve long-term water sustainability. Installation of water meters at major consumption points is recommended for effective monitoring and analysis of water usage patterns.
- Awareness programs and water conservation campaigns should be conducted periodically for students, faculty, staff, and housekeeping personnel to encourage responsible water usage behavior and sustainable water management practices.
- Regular internal water audits and monitoring activities should be carried out to assess the effectiveness of implemented measures and support continual improvement in water resource management.

8. Water Quality

The institution utilizes water obtained from approved water supply sources for drinking, sanitation, gardening, and other domestic purposes across the campus. Based on the available records and observations during the audit, the overall water quality status of the institution is satisfactory and suitable for regular institutional usage.

The drinking water supplied to students, faculty, and staff is considered safe for consumption and is maintained through appropriate storage and distribution practices. The physical appearance of water was found to be clear and acceptable, with no major issues related to turbidity, objectionable colour, odour, or taste observed during the audit process.

The water storage tanks and associated distribution systems are maintained in satisfactory condition and are periodically cleaned to ensure hygienic operation and uninterrupted water supply throughout the campus. Adequate potable water facilities are available at required locations for institutional users.

No major leakage, contamination, or water quality deterioration issues were identified during the assessment. Existing water management practices support safe and efficient utilization of water resources within the campus.

Periodic monitoring and checking of water quality are carried out as part of institutional water management practices. However, continued laboratory testing and preventive maintenance of the water distribution network are necessary to ensure long-term compliance with applicable water quality standards and sustainable water resource management.

Overall, the institution maintains satisfactory water quality conditions and demonstrates commitment toward safe water supply, hygiene, and sustainable water management practices in alignment with ISO-based water audit requirements.

9. Water budgeting

Sr. No.	Description	Quantity (Liters / Day)	Remarks
1	Total Water Inflow	**5,146 L / Day**	Water received from approved sources
2	Total Water Consumption	**5,100 L/Day**	Used for drinking, sanitation, laboratories and gardening
3	Water Balance / Surplus	**46 L/Day**	Adequate water availability on campus
4	Water Management Status	Adequate	**Satisfactory and Well-Managed**

- **Conclusion**

The water audit indicates that the institution maintains a satisfactory water management system with an average daily water inflow of approximately 5,146 liters and daily consumption of around 5,100 liters. The available water supply is adequate to meet the requirements of drinking, sanitation, gardening, and other campus activities. A positive water balance of approximately 46 liters per day indicates effective utilization and controlled consumption practices.

The institution has demonstrated responsible water usage practices and maintains sufficient water availability for regular operations. Existing water management measures support operational sustainability and ensure uninterrupted water supply across the campus. However, opportunities remain for further strengthening water conservation initiatives, monitoring systems, and sustainable water utilization practices.

Overall, the institution has established a stable foundation for water resource management and can further improve efficiency through enhanced conservation measures and awareness programs.

- **Recommendations**

The institution should continue monitoring daily water consumption and maintain proper records to identify variations and opportunities for conservation. Installation of water meters at major consumption points is recommended to improve monitoring accuracy and leak detection.

Regular inspection and maintenance of pipelines, taps, flush systems, and storage tanks should be carried out to prevent water losses through leakage and overflow conditions. Water-efficient fixtures such as low-flow taps and dual-flush systems may be introduced to reduce unnecessary water consumption.

The institution should strengthen rainwater harvesting practices and explore opportunities for reuse of treated wastewater for gardening and non-potable applications. Awareness programs should be conducted for students, faculty, and staff to encourage responsible water usage behavior and conservation practices.

Periodic internal water audits and monitoring activities should be implemented to evaluate the effectiveness of water management measures and ensure continual improvement in water resource utilization and sustainability performance.

10. Waste Management

Sr. No.	Type of Waste	Source / Generation Area	Existing Waste Management Practice	Compliance Status	Environmental Impact	Recommendations
1	Biodegradable Waste	Canteen, pantry, food waste, garden waste	Waste is collected separately through designated bins and handed over to municipal waste collection systems.	Implemented	Improper disposal may lead to odour generation and unhygienic conditions.	Introduce composting practices for food and garden waste to reduce landfill disposal.
2	Non-Biodegradable Waste	Classrooms, offices, packaging materials, plastic waste	Segregation of dry waste is practiced through color-coded bins across campus areas.	Implemented	Accumulation of plastic and packaging waste may contribute to land pollution.	Strengthen recycling initiatives and minimize single-use plastic consumption.
3	Paper Waste	Administrative offices, classrooms, library	Waste paper is collected separately for recycling and reuse practices.	Implemented	Excessive paper consumption increases solid waste generation.	Promote paperless communication and double-sided printing practices.
4	E-Waste	Computers, printers, electronic accessories, cables	E-waste is stored separately and periodically disposed of through authorized recyclers or vendors.	Partially Complied	Improper disposal may cause soil and groundwater contamination due to toxic components.	Maintain formal e-waste inventory and disposal records through authorized agencies only.
5	Hazardous Waste	Limited maintenance and electrical activities	Minimal hazardous waste generation due to non-	Partially Complied	Improper handling may create environmental	Develop formal hazardous waste handling, labeling, and storage

Sr. No.	Type of Waste	Source / Generation Area	Existing Waste Management Practice	Compliance Status	Environmental Impact	Recommendations
			industrial institutional activities. Basic segregation practices are followed.		and safety risks.	procedures where applicable.
6	Liquid Waste	Washrooms, pantry, cleaning activities	Wastewater is discharged through the municipal sewage and drainage system. Regular maintenance of drainage infrastructure is carried out.	Complied	Untreated discharge may contribute to water pollution if not properly managed.	Explore wastewater reuse for gardening and non-potable applications.
7	Sanitary Waste	Washrooms and female restrooms	Sanitary napkin disposal machines are provided for proper sanitary waste handling.	Implemented	Improper sanitary waste disposal may affect hygiene and environmental conditions.	Install awareness signage and ensure timely disposal through authorized systems.
8	Recyclable Waste	Plastic bottles, paper, cardboard, packaging materials	Segregated recyclable waste is periodically collected for recycling purposes.	Implemented	Lack of recycling may increase waste burden on municipal systems.	Strengthen tie-ups with recycling vendors and improve waste segregation efficiency.
9	Biomedical Waste	Medical or laboratory activities	No significant biomedical waste generation observed on campus.	Not Applicable	Minimal environmental impact due to absence of biomedical activities.	Continue monitoring institutional activities for future applicability.

Sr. No.	Type of Waste	Source / Generation Area	Existing Waste Management Practice	Compliance Status	Environmental Impact	Recommendations
10	Waste Segregation System	Entire campus premises	Segregation of wet, dry, and recyclable waste is encouraged through designated bins and awareness measures.	Implemented	Improper segregation may reduce recycling efficiency and increase contamination risk.	Conduct periodic awareness programs and monitoring for effective segregation practices.

11. Air and Noise Pollution Monitoring

Air Quality Index-

Parameter	Value
Overall AQI	**59**
AQI Category	**Satisfactory**
Dominant Pollutant	**$PM_{2.5}$**
Health Advisory	**Breathing discomfort for sensitive groups**

Conclusion:

The observed ambient air quality parameters are within acceptable limits for institutional and educational environments. Particulate matter levels (PM2.5 and PM10) are moderate but remain within the satisfactory range, while gaseous pollutants such as NO_2, SO_2, and CO are comparatively low.

The air quality conditions indicate a generally healthy campus environment with minimal impact from major industrial or vehicular pollution sources. Continued green initiatives, proper ventilation, and regular environmental monitoring will help maintain and further improve campus air quality standards.

Noise Pollution: Noise levels: The recorded highest noise level of 92.5 dB

- **Conclusion**

The observed noise levels around the campus indicate moderate to high ambient noise conditions during peak operational hours. The primary sources of noise pollution are vehicular traffic, surrounding commercial activities, and regular institutional movement within the urban locality. The recorded highest noise level of 92.5 dB exceeds the desirable noise limits for educational environments during peak periods, while lower readings remain within moderate urban noise conditions.

Although the institution is located in a busy metropolitan area, the overall campus environment remains operationally manageable for academic activities. Existing green initiatives and campus management practices contribute to partial mitigation of noise impacts.

12. Biodiversity and Green Initiatives

Sr. No.	Biodiversity / Green Initiative	Existing Status / Activity	Environmental Benefit	Compliance Status	Observations	Recommendations
1	Green Campus Development	The institution maintains landscaped areas and green patches within the campus premises.	Improves campus aesthetics, air quality, and microclimate conditions.	Implemented	Green initiatives contribute positively to the educational environment.	Increase plantation density and expand green landscaping activities.
2	Tree Plantation Activities	Periodic tree plantation and environmental awareness activities are conducted.	Enhances biodiversity and carbon absorption capacity.	Implemented	Student and staff participation supports environmental awareness.	Conduct regular plantation drives with native plant species.
3	Green Cover Maintenance	Approximately 0.06% of campus area is covered by trees and greenery.	Supports ecological balance and reduces urban heat effects.	Partially Implemented	Existing green cover is limited considering institutional infrastructure.	Increase overall green cover through vertical gardening and additional plantation.
4	Environmental Awareness Programs	Awareness programs, sustainability	Promotes environmental	Implemented	Environmental education initiatives are	Conduct more frequent workshops, rallies, and eco-

Sr. No.	Biodiversity / Green Initiative	Existing Status / Activity	Environmental Benefit	Compliance Status	Observations	Recommendations
		campaigns, and environmental activities are organized for students and staff.	responsibility and sustainable practices.		actively encouraged.	awareness campaigns.
5	Plastic Reduction Initiatives	Efforts are made to discourage open burning and promote responsible waste handling practices.	Reduces environmental pollution and plastic waste generation.	Partially Implemented	Continued awareness efforts are required for effective implementation.	Introduce a formal single-use plastic reduction policy within campus.
6	Rainwater Harvesting	Rainwater harvesting and water conservation measures are implemented.	Supports groundwater recharge and water sustainability.	Implemented	Existing systems contribute to water conservation efforts.	Enhance storage capacity and periodic maintenance of harvesting systems.
7	Waste Segregation and Recycling	Segregation of biodegradable and recyclable waste is practiced across campus.	Reduces landfill burden and promotes resource recovery.	Implemented	Waste segregation practices are functioning satisfactorily.	Strengthen composting and recycling partnerships with authorized vendors.
8	Promotion of Sustainable Transportation	Public transport usage, walking, and eco-friendly transportation practices are encouraged.	Reduces vehicular emissions and air pollution.	Implemented	Institution supports environmentally responsible transportation practices.	Promote carpooling and electric vehicle awareness initiatives.
9	Air Quality Improvement Measures	Green initiatives and plantation activities help improve	Reduces dust and particulate pollution levels.	Partially Implemented	Air quality remains within satisfactory to moderate range.	Increase green buffer zones around traffic-prone areas.

Sr. No.	Biodiversity / Green Initiative	Existing Status / Activity	Environmental Benefit	Compliance Status	Observations	Recommendations
		ambient air quality.				
10	Eco-Friendly Campus Practices	Environmental notices, awareness signage, and green campus activities are displayed and practiced.	Encourages sustainable environmental behavior among stakeholders.	Implemented	Positive environmental culture is observed within campus premises.	Conduct periodic environmental audits and sustainability performance reviews.

13. Findings and Observations

- **Strengths**

1. The institution has implemented effective waste segregation practices for biodegradable, recyclable, and e-waste materials, supporting proper solid waste management and environmental sustainability.
2. Water management practices are satisfactory, including rainwater harvesting measures, water-saving fixtures, periodic maintenance of water systems, and regular monitoring of water consumption and quality.
3. The college actively promotes environmental awareness through sustainability initiatives, tree plantation activities, green campus practices, and participation of students and staff in environmental programs.
4. Ambient air quality within and around the campus remains within satisfactory to moderate limits, supported by green initiatives, promotion of public transportation, and prohibition of open waste burning practices.
5. The institution maintains a hygienic campus environment with proper drainage systems, adequate potable water facilities, and regular maintenance of sanitation infrastructure.
6. E-waste management practices are followed through separate collection and disposal via authorized recyclers, demonstrating commitment toward responsible environmental management.

- **Areas for Improvement**

1. Formal Environmental Management System (EMS) documentation, internal environmental audits, and management review mechanisms should be strengthened in alignment with ISO 14001:2015 requirements.
2. Hazardous waste management procedures require improvement through proper labeling systems, dedicated storage arrangements, maintenance of disposal records, and formal authorization where applicable.
3. The institution should conduct periodic ambient air and noise quality monitoring and maintain proper environmental monitoring records for regulatory and audit purposes.
4. Green cover within the campus is limited and may be enhanced through additional plantation drives, biodiversity development initiatives, and vertical gardening practices.
5. Wastewater reuse practices for gardening and non-potable applications are currently limited and may be strengthened to improve water sustainability performance.
6. Energy conservation initiatives and adoption of renewable energy sources such as solar power may be further explored to reduce dependency on conventional energy resources and improve environmental performance.

14. Corrective and Preventive Actions

Sr. No.	Observation	Corrective Action	Preventive Action	Responsibility	Target Improvement Area
1	Limited formal EMS documentation and monitoring procedures	Prepare and maintain documented EMS procedures, records, and operational controls as per ISO 14001:2015 requirements.	Conduct periodic internal EMS audits and management review meetings for continual improvement.	Administration / EMS Committee	Environmental Management System Implementation
2	Partial compliance in hazardous waste management practices	Develop proper hazardous waste handling procedures, labeling systems, and storage arrangements where applicable.	Conduct regular inspections and staff awareness training on hazardous waste handling and disposal practices.	Administration / Housekeeping Department	Hazardous Waste Management

Sr. No.	Observation	Corrective Action	Preventive Action	Responsibility	Target Improvement Area
3	Inadequate environmental monitoring records for air and noise quality	Initiate periodic ambient air and noise quality monitoring and maintain compliance records.	Establish annual environmental monitoring schedules and maintain monitoring reports systematically.	Administration / Maintenance Department	Air and Noise Pollution Control
4	Limited green cover within campus premises	Conduct additional tree plantation drives and increase landscaping activities.	Develop long-term biodiversity enhancement and green campus development plans.	Administration / NSS / Environmental Cell	Biodiversity and Green Initiatives
5	Limited wastewater reuse practices	Explore feasibility for reuse of treated wastewater for gardening and cleaning purposes.	Implement water recycling and conservation planning for sustainable water utilization.	Maintenance Department	Water Conservation and Reuse
6	Dependence on conventional energy consumption	Promote energy conservation practices and install energy-efficient electrical equipment.	Explore installation of renewable energy systems such as solar panels for campus operations.	Administration / Electrical Department	Energy Management
7	Lack of formal e-waste disposal documentation	Maintain records of e-waste generation, storage, and disposal through authorized recyclers.	Develop periodic e-waste inventory review and disposal procedures.	IT Department / Administration	E-Waste Management
8	Possibility of water leakage and wastage	Conduct regular inspection and maintenance of pipelines, taps, and storage systems.	Install additional water-efficient fixtures and strengthen leak detection mechanisms.	Maintenance Department	Water Resource Management

Sr. No.	Observation	Corrective Action	Preventive Action	Responsibility	Target Improvement Area
9	Moderate noise levels due to surrounding traffic activities	Install awareness signage and maintain green barriers around sensitive areas.	Conduct periodic noise assessments and implement long-term noise mitigation planning.	Administration	Noise Pollution Control
10	Limited awareness regarding environmental sustainability practices among stakeholders	Organize environmental awareness programs, workshops, and sustainability campaigns periodically.	Include environmental sustainability topics in institutional activities and orientation programs.	EMS Committee / Faculty Coordinators	Environmental Awareness and Training
11	Waste segregation efficiency can be further improved	Strengthen monitoring of waste segregation practices across campus premises.	Conduct regular training and awareness activities for students, staff, and housekeeping personnel.	Housekeeping Department / Administration	Solid Waste Management
12	Insufficient formal compliance review mechanism	Establish periodic legal compliance review and documentation procedures.	Maintain updated records of environmental laws, compliance status, and corrective measures.	Administration / EMS Coordinator	Legal and Regulatory Compliance

15. Conclusion and Recommendations

- **Conclusion**

The environmental audit and Environmental Management System (EMS) review of SVKM's Pravin Gandhi College of Law, Mumbai, indicate that the institution has established a satisfactory framework for environmental management in alignment with the principles of ISO 14001:2015. The institution demonstrates commitment toward environmental sustainability through implementation of waste segregation practices, water conservation measures, environmental awareness programs, green campus initiatives, and responsible resource management practices.

The audit findings reveal that the institution maintains adequate water management systems, satisfactory sanitation facilities, proper solid waste handling practices, and a generally healthy campus environment. Air quality conditions remain within satisfactory to moderate limits, while existing biodiversity and landscaping initiatives contribute positively toward ecological balance and environmental awareness among students and staff.

The institution also shows positive efforts in promoting environmental responsibility through awareness campaigns, sustainable transportation practices, and maintenance of hygienic campus conditions. However, certain areas require further strengthening, particularly in formal EMS documentation, hazardous waste management procedures, environmental monitoring records, renewable energy initiatives, and enhancement of green cover within the campus.

Overall, the institution has demonstrated substantial compliance with applicable environmental requirements and possesses a stable foundation for continual environmental performance improvement and sustainable campus management.

- **Recommendations**

The institution should strengthen the formal implementation of the Environmental Management System by developing comprehensive EMS documentation, conducting periodic internal environmental audits, and establishing regular management review mechanisms in accordance with ISO 14001:2015 requirements.

Environmental monitoring practices should be enhanced through periodic ambient air quality, water quality, and noise level assessments with proper maintenance of monitoring records and compliance documentation.

The institution should improve hazardous waste and e-waste management systems by implementing proper labeling, storage arrangements, authorized disposal procedures, and maintenance of disposal records wherever applicable.

Water conservation initiatives should be further strengthened through installation of additional water-efficient fixtures, expansion of rainwater harvesting systems, and exploration of treated wastewater reuse for gardening and non-potable applications.

The college should enhance biodiversity and green campus initiatives by increasing plantation activities, improving green cover percentage, and introducing additional sustainable landscaping practices such as vertical gardening and native species plantation.

Energy conservation measures and renewable energy adoption should be encouraged through the use of energy-efficient appliances and exploration of solar energy systems to reduce dependency on conventional energy resources.

Regular environmental awareness programs, workshops, training sessions, and sustainability campaigns should continue to be conducted for students, faculty, housekeeping personnel, and staff to promote responsible environmental practices and continual improvement in environmental performance.

16. Checklists –

- **Check list as per Air Act 1981**

Sr.No.	Particular	Yes / No / NA
I) Regulatory Approvals & Compliance		
1	Consent to Establish (CTE) from the State Pollution Control Board (SPCB) before construction.	**NA**
2	Valid pollution control certificates on campus	
II) Air Pollution Sources & Control Measures **Diesel Generators (DG Sets) & Power Backup**		**A.**
3	**CPCB-approved** DG sets with emission control equipment.	**yes**
	Use **low-sulfur diesel** to reduce emissions.	
	Maintain **proper chimney height** as per SPCB norms (minimum 3 meters above the building).	
	Regular maintenance and servicing to minimize emissions.	**Yes**
B. Science Laboratories & Chemical Usage		
	Install **proper fume hoods and exhaust fans** to ventilate chemical fumes.	**NA**
	Store **volatile chemicals** in closed containers to prevent air contamination.	**NA**
	Safe disposal of chemical waste and prevent open evaporation.	**NA**
C. Canteens & Kitchens		
	Use **LPG instead of coal or wood** for cooking.	**NA**
	Chimneys and exhaust fans are in working condition.	**NA**
D. Transportation & Vehicular Pollution		
	Maintain **Pollution Under Control (PUC) certificates** for all college vehicles.	**NA**
	Develop **no-vehicle zones** or encourage walking/cycling inside the campus.	**YES**
	Promote **public transport, carpooling, or electric vehicles** among students and staff.	**YES**
E. Waste Management & Open Burning Prevention		
	Ban **open burning** of dry leaves, plastic, or other waste materials.	**YES**
	Implement **solid waste management practices** like composting and recycling.	**YES**
	Implement **liquid waste management practices**	**YES**
	Ensure **biomedical and chemical waste disposal** complies with environmental regulations.	**YES**
III) Air Quality Monitoring & Compliance		
	Conduct **ambient air quality monitoring** for pollutants such as **PM10, PM2.5, SO_2, NOx, and CO**	
	Install **air purifiers or green barriers** (trees and plants) to improve air quality.	
	Maintain **records of emissions and air quality reports** for audit and compliance.	
IV) Awareness & Sustainability Initiatives		

	Conduct **awareness programs** on air pollution and environmental protection.	**YES**
	Implement a **Green Campus Policy** promoting sustainable practices.	**YES**
	Encourage students and staff to participate in **tree plantation drives** and environmental conservation activities.	**YES**

- **Checklist as per Water (Prevention and Control of Pollution) Act, 1974**:

Sr.No.	Particular	Yes / No / NA
I) Regulatory Compliance		
1	**Consent to Establish (CTE)** from the **State Pollution Control Board (SPCB)** before construction.	**NA**
2	**Consent to Operate (CTO)** before starting operations.	**NA**
	Maintain **records of water usage and wastewater discharge**.	**yes**
II) Water Supply and Conservation		
3	College has an **adequate water supply** from an approved source (municipal supply, borewell, etc.).	**YES**
	Rainwater harvesting systems to collect and store rainwater.	**YES**
	Water-saving devices (low-flow taps, dual-flush toilets, sensor-based faucets) in bathrooms and kitchens.	**YES**
	Regular leak detection and repairs to prevent water wastage.	**YES**
III) Drinking Water Quality Management		
	Periodic testing of drinking water to check for contaminants (as per BIS 10500 standards).	**YES**
	RO water purification or filtration systems for safe drinking water.	**YES**
	Water quality records and corrective measures taken.	**YES**
IV) Wastewater Management		
	Sewage Treatment Plant (STP) if required by the PCB.	**YES**
	Wastewater is **treated before discharge** and complies with PCB standards.	**YES**
	Periodic testing of treated water for pH, BOD, COD, and other pollutants.	**YES**
	Separate drainage lines for sewage and stormwater to prevent contamination.	**YES**
	Treated wastewater for gardening, flushing, or other non-potable uses where feasible.	**NA**
V) Laboratory and Chemical Waste Disposal		
	Chemical waste management plan for science and engineering labs.	**NA**
	Neutralization tanks for hazardous liquid waste before discharge.	**NA**
	Proper labeling and disposal of chemical waste as per hazardous waste rules.	**NA**
	Material Safety Data Sheets (MSDS) for all chemicals used.	**NA**
VI) Prevention of Water Body Contamination		
	Direct discharge of sewage or chemicals into nearby lakes, rivers, or groundwater sources.	**NA**

	Buffer zones with vegetation around water bodies to filter runoff.	**No**
	Open defecation and dumping of waste in water sources near the campus.	**No**
VII) Solid Waste and Sanitary Waste Management		
	Waste segregation system for biodegradable, non-biodegradable, and hazardous waste.	**yes**
	Sanitary napkin disposal machines and incinerators in female restrooms.	**Sanitary napkin disposal machines**
VIII) Awareness and Training		
	Regularly conducted training programs on water conservation and pollution control.	**yes**
	Displayed **signage** promoting water-saving practices (e.g., "Save Water" near taps).	**yes**
	Organized **water audits** to track usage and identify areas for improvement.	**yes**

- **Checklist as per Hazardous Waste Management Rules, 2016**

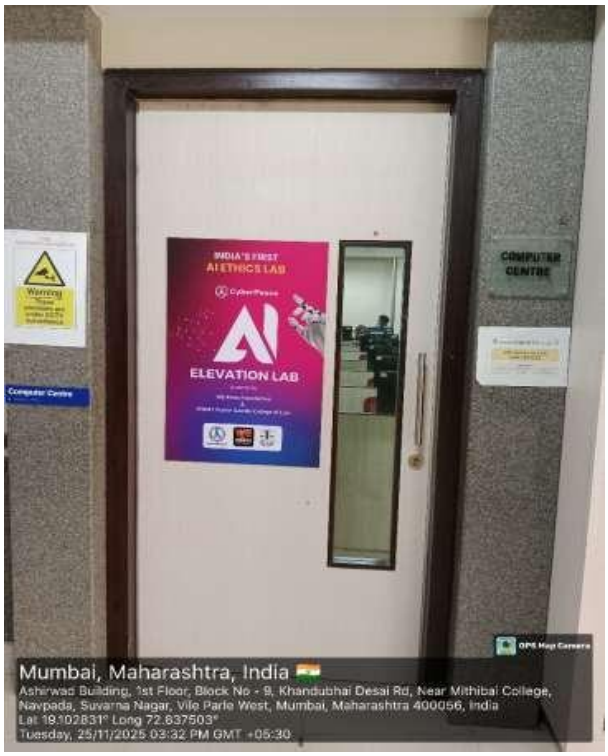
Sr.No.	**Particular**	**Yes / No / NA**
I) Regulatory Compliance		
	Hazardous Waste Authorization from the **State Pollution Control Board (SPCB)** if generating hazardous waste.	**NA**
	Registered with the **SPCB for E-waste disposal** under the E-Waste (Management) Rules, 2016.	
	Maintained **records of hazardous waste storage, transportation, and disposal** for at least 5 years.	
	Display a **Hazardous Waste Storage Area** sign at designated waste collection points.	
	Disposal only through **authorized hazardous waste treatment facilities**.	
II) Identification & Segregation of Hazardous Waste		
	Listed all hazardous wastes generated in the institution:*[**Chemical waste** from science labs (acids, solvents, reagents, heavy metals).* ***Biomedical waste** (medical colleges: syringes, needles, body fluids).* ***Electronic waste** (batteries, CFLs, expired laboratory instruments, used circuit boards).* ***Used oil** from maintenance (generators, transformers, vehicles).* ***Contaminated glassware, gloves, and lab equipment**.]*	**Biodegradable waste** - **Canteen** - **paper**
	Segregated hazardous waste into color-coded bins: ***[Red** – Contaminated plastic waste* ***Yellow** – Chemical/biomedical waste* ***Blue** – Glassware and labware* ***Black** – E-waste (batteries, bulbs, circuit boards)]*	**yes**
	Labeled hazardous waste containers with:	**NA**

	Name of waste- ***Date of collection -*** ***Hazard category (flammable, toxic, corrosive, reactive, infectious, etc.)-***	
III) Storage and Handling		
	Chemical and hazardous waste stored separately in a dedicated, well-ventilated, leak-proof, fire-resistant storage room.	**NA**
	Kept hazardous waste storage area at least **10 meters away** from water sources and food preparation areas.	
	Liquid hazardous waste stored in tightly sealed, corrosion-resistant containers.	
	Installed **fire extinguishers** in all laboratories and hazardous waste storage areas.	
	Ensured **no mixing of hazardous and non-hazardous waste**.	
IV) Disposal and Treatment		
	Disposal of hazardous waste only through **SPCB-authorized vendors**.	**NA**
	Disposal of : **Chemical waste** through incineration or treatment plants. **E-waste** via authorized recyclers. **Used oil** through authorized reprocessors. **Biomedical waste** as per Biomedical Waste Management Rules, 2016.	
V) Emergency Preparedness & Safety Measures		
	Trained all staff and students in **hazardous waste handling**.	**NA**
	Conducted **monthly inspections** of hazardous waste storage and disposal areas.	
	Established a **fire safety plan** and ensured access to **fire extinguishers and first-aid kits**.	
	Conduct **hazardous waste management audits** every six months.	
VI) Record-Keeping and Reporting		
	Maintained a **Hazardous Waste Register** with: *Type and quantity of hazardous waste generated- Storage and disposal details- Name of authorized disposal facility-*	
VII) Awareness and Training		
	Conducted **hazardous waste management training** for faculty, lab technicians, and housekeeping staff.	
	Displayed **hazardous waste signage** in laboratories and storage areas.	
	Organized **workshops on hazardous waste compliance and best practices**.	

17.Photographic Evidences

Class Room

Class Room

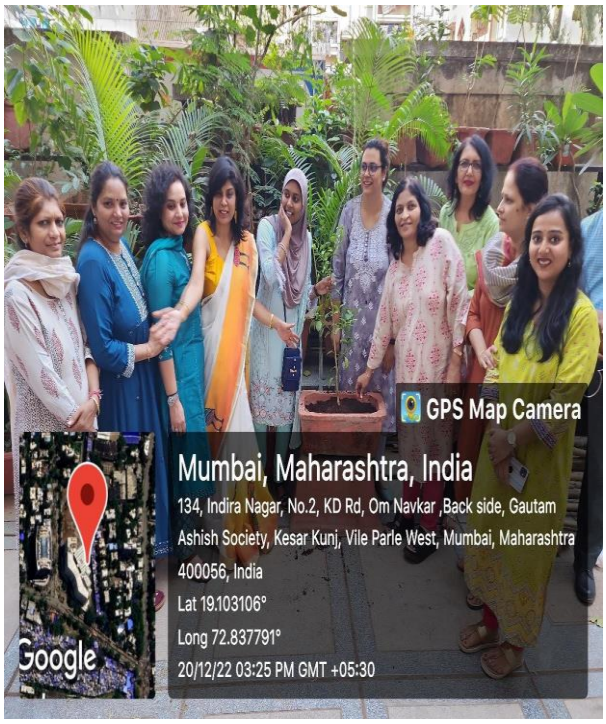


Computer Centre

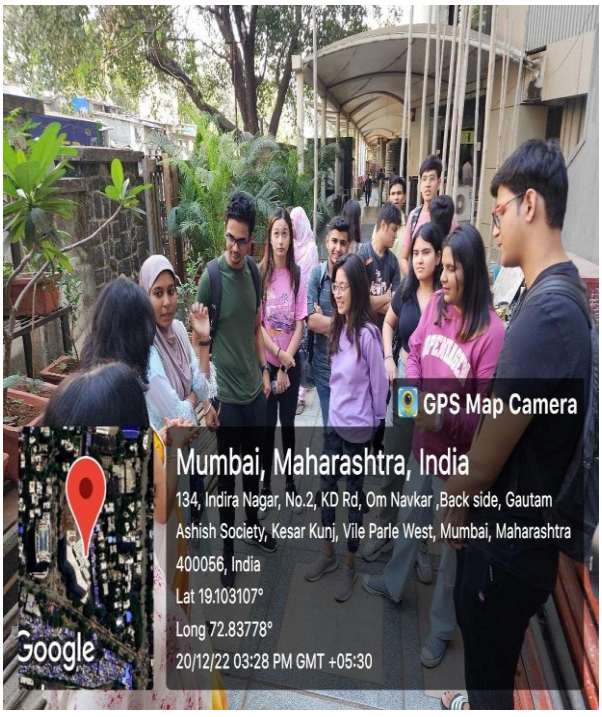
Computer Centre

Moot Court Room

Moot Court Room



Tree plantation



Tree plantation

Solid Waste Disposal

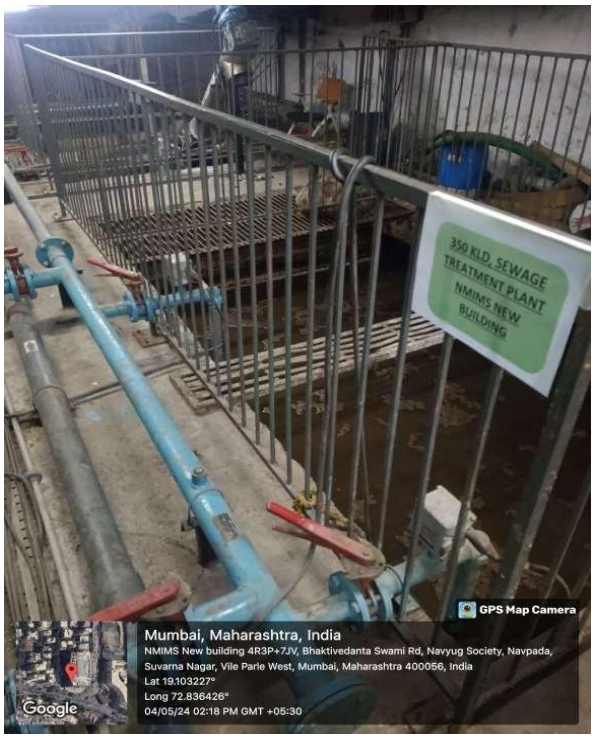
Recycling Plastic Bottles

Waste Segregation

Water Cooler

Water Testing

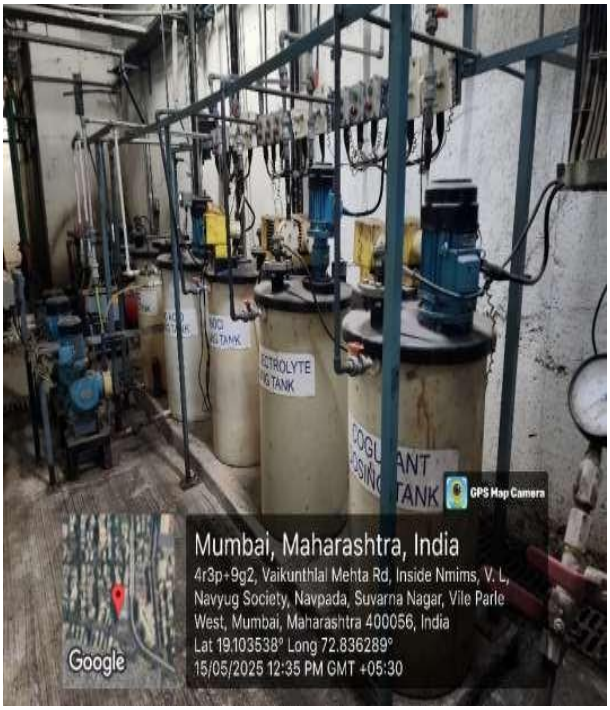
Water Harvesting



Water Recycling

Water Recycling

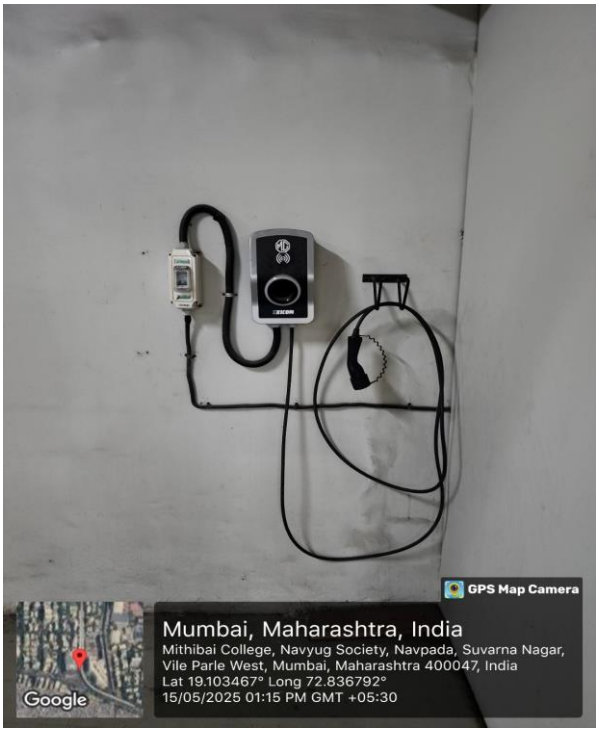
Sewage Treatment Plant



Sewage Treatment Plant

Diesel Generator

Diesel Generator



EV Charging Points

Fire Safety Equipment

Awareness Posters

Awareness Posters

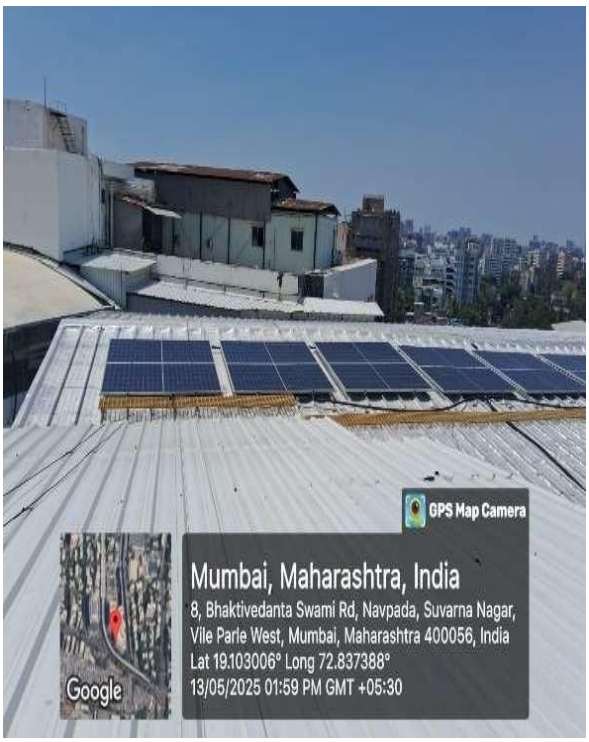
Versova Beach for a cleanup

Coastal Cleanup to celebrate Annual Coastal Cleanup Day

The Pigeon Feed Podcast Activity

Multi-Layered Plastic Collection (MLP) Recycling Drive

Workshop on Rainwater Harvesting



Solar panel

18. Overall Conclusion and Recommendations

- **Overall Conclusion**

The overall environmental audit and Environmental Management System (EMS) assessment of SVKM's Pravin Gandhi College of Law, Mumbai, demonstrate that the institution has developed a satisfactory environmental management framework aligned with the objectives and principles of ISO 14001:2015. The institution has shown commitment toward sustainable environmental practices through implementation of water conservation measures, waste segregation systems, environmental awareness activities, green campus initiatives, and responsible resource management practices.

The audit findings indicate that the institution maintains satisfactory water quality and water management systems, proper sanitation infrastructure, organized waste management practices, and environmentally conscious operational activities. Existing green initiatives, tree plantation activities, and sustainability awareness programs contribute positively toward environmental protection and ecological responsibility among students, faculty, and staff.

The institution also demonstrates compliance with several applicable environmental regulations related to water management, waste management, and environmental sustainability practices. Air quality conditions remain within satisfactory to moderate limits, while noise levels are typical of a busy urban educational environment. The overall campus environment is hygienic, operationally stable, and supportive of academic activities.

However, certain areas require further improvement to strengthen environmental performance and compliance effectiveness. These include formal EMS documentation, periodic environmental monitoring, hazardous waste management procedures, renewable energy adoption, wastewater reuse practices, and enhancement of green cover within the campus premises.

Overall, the institution has established a positive foundation for sustainable environmental management and possesses significant potential for continual improvement in environmental performance, regulatory compliance, and long-term sustainability practices.

- **Overall Recommendations**

1. The institution should strengthen the implementation of the Environmental Management System by establishing comprehensive EMS documentation, operational procedures, internal audits, and periodic management review mechanisms in accordance with ISO 14001:2015 requirements.
2. Regular environmental monitoring for air quality, noise levels, water quality, and waste management performance should be conducted and properly documented to ensure continual compliance and environmental improvement.
3. Hazardous waste and e-waste management practices should be further improved through proper labeling systems, dedicated storage arrangements, authorized disposal procedures, and maintenance of disposal records wherever applicable.
4. Water conservation initiatives should be enhanced through installation of additional water-efficient fixtures, expansion of rainwater harvesting capacity, regular leak detection programs, and exploration of treated wastewater reuse for gardening and non-potable applications.
5. The institution should increase green cover within the campus through additional plantation drives, biodiversity enhancement initiatives, vertical gardening practices, and maintenance of native plant species.
6. Renewable energy initiatives such as solar power systems and energy-efficient electrical equipment should be explored to reduce dependence on conventional energy sources and improve environmental sustainability.
7. Regular environmental awareness programs, sustainability workshops, training sessions, and student participation activities should continue to be organized to strengthen environmental responsibility and promote sustainable behavior among all stakeholders.
8. Periodic review of legal and regulatory compliance requirements should be conducted to ensure that all environmental obligations are adequately fulfilled and documented.
9. Noise mitigation measures such as green barriers, awareness signage, and control of unnecessary noise-generating activities should be strengthened to maintain a conducive academic environment.
10. The institution should continue its commitment toward continual improvement in environmental performance, sustainable campus management, and environmental protection through proactive planning and effective implementation of environmental best practices.

Sign and Seal

Dr. Amelia Antony Lead Auditor

ISO 14001, Certification Number - TVEEN06DA7169