



Hon. Shri. Babanrao Pachpute Vichardhara Trust's Group of Institutions

## Faculty of Management

Approved by AICTE, New Delhi

o Savitribai Phule Pune University, Pune, DTE, (MH) Mumbai.

A/P-Kashti, Tal-Shrigonda, Dist-Ahmednagar, Pin- 414701

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### 7.1.2: The Institution has facilities and initiatives for:

| Sr. No | Particular  | Page No  |
|--------|---|----------|
| 1      | Alternate sources of energy and energy conservation measures          | 2 to 23  |
| 2      | Management of the various types of degradable and no degradable waste | 24 to 26 |
| 3      | Water conservation  | 27 to 33 |
| 4      | Green campus initiatives  | 34 to 42 |
| 5      | Disabled-friendly, barrier free environment                           | 42 to 45 |



  
DIRECTOR  
H.S.B. P.V.T. GOI  
FUCULTY OF MANAGEMENT  
A/P. Kashti Tal. Shrigonda, Dist. A.Nagar 414701

DTE Code: 5303  
AISHE Code: C-45884

PUN Code: IMMA017230  
ARA Code: 01555303

AICTE ID: 1-12614931

**Elion Technologies & Consulting Pvt Ltd**

# Certificate

This is to certify that Energy Audit at **HSBPVT'S GOI Faculty of Management, Maharashtra** was carried out for the year **2022 - 23**.

The campus administration has initiated measures to incorporate sustainable practices aimed at reducing energy consumption. These efforts include use of BEE star rated appliances and transitioning to LED lights, all aimed at fostering energy efficiency across the campus.

Audit Date – 08/02/2023  
Valid Up to – 09/02/2024

  
Audit Officer

Certificate Number  
EA/2024/HGFM





**ENERGY AUDIT REPORT  
FOR  
HSBPVT'S GOI Faculty  
OF MANAGEMENT**



**Elion Technologies & Consulting Private Limited**

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## Acknowledgement

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to HSBPVT'S GOI Faculty of Management, Maharashtra for entrusting the task of conducting energy 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>              | HSBPVT'S GOI Faculty Of Management  |
| <b>College Address</b>              | Post- Parikrama Village Kashti Tal- Shrigonda<br>Dist- Ahmednagar, Maharashtra - 414701 |
| <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,<br>New Delhi - 110018           |
| <b>Date of Audit</b>                | 08 <sup>th</sup> February 2023  |
| <b>Year of Audit</b>                | 2022 – 2023   |
| <b>Audit Participants from Site</b> | 3   |
| <b>Total College Area</b>           | 2.5 acres   |
| <b>Total Green Area</b>             | 10 acres  |





## Executive Summary

Parikrama Group of Institutions is a brain child of Hon. Shri Babanrao Pachpute, whose foresight and entrepreneurial abilities have created one of the largest integrated campus in the country. Parikrama is the only of its kind "Village for global welfare" that spreads over 110 acres of lush green country side of Maharashtra with urban outlook and facilities. Parikrama started its educational activities in 2009 with a range of educational courses from KG to PG. Today, the Society has over hundreds of students on the roll of Public School, Parikrama Polytechnic, Parikrama Diploma in Pharmaceutical Sciences, College of Pharmacy, College of Engineering, and Institute of Management. Hon. Shri. Babanrao Pachpute Vichardhara Trust's Faculty of Engineering approved by A.I.C.T.E. has been started in the year 2009. All efforts are made to ensure that useful industry-academia interface is maintained on an on-going process so that the employability of our diploma holders is enhanced. The overall growth and development of the personality of the students is taken care of by organizing various cultural and sports activities in the campus. The sincere and complete involvement of Management and staff members can be seen in the results achieved by the students in academics as well as various extra-curricular activities.

### List of courses offered by the institute:

- MBA

Electricity is supplied by Local Electrical Distribution Company at and is stepped down to 415V using a transformer of rating 675KVA.

The energy audit included detailed data collection, analysis of data and identification of specific energy saving proposals.





## Chapter 01: Introduction

M/S HSBPVT'S GOI Faculty of Management, Maharashtra evinced interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting energy audit of their College.

Elion Technologies and Consulting Pvt Ltd team conducted the Detail Energy audit on 08<sup>th</sup> February 2023.

This report is on the energy audit carried out M/S HSBPVT'S GOI Faculty of Management, Maharashtra. The detailed energy audit comprised of the following activities:

- Data collection of power consuming equipment's.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the Engineers and management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by HSBPVT'S GOI Faculty of Management, Maharashtra officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

### Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

- General information of the site.
- Baseline energy description.
- Past energy consumption bills which includes electricity bills.







- On site data collection.
- Energy analysis of different sectors.
- Recommendation of energy conservation measures.

The primary goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the campus by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.





## Chapter 02: Energy Consumption Details

Following table below show the electrical utilities installed in the campus:

|  |        |
|--|--------|
| Rating of Transformer (in KVA)               | 675KVA |
| Year of installation of the Transformer      | 2009   |
| Rating of DG Set (in KVA)                    | 125KVA |
| Rating of Capacitor Bank (if present)        | NA     |
| Capacity of Solar Power Plant (if installed) | 1KW    |

The main areas of energy consumption as observed during the audit are as follows:

- Air Conditioners
- Lighting
- Fans
- Motors & Pumps
- Desktops & Printers

The main sources of energy to meet the required consumptions are as follows:

- Electricity supply from Power Distribution Company.
- Backup power from DG Set.





## Chapter 03: Lighting System

Following is the summary of lights installed at various locations of the college campus:

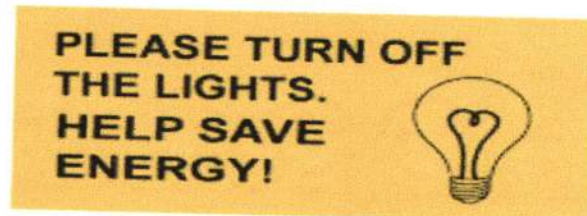
| Type of lights (LED/CFL/Conventional Bulb/Tube Light) | Location     | Rating | Quantity | Number of Hours being turned on |
|---|--------------|--------|----------|---------------------------------|
| LED   | Seminar Hall | 10W    | 10       | 2                               |
| LED   | Class room   | 10W    | 24       | 4                               |
| LED   | Laboratory   | 10W    | 64       | 3                               |
| LED   | Library      | 10W    | 10       | 8                               |
| LED   | Office       | 10W    | 5        | 6                               |

### Observation:

- It is commendable that the college has adopted LED lighting throughout its facilities, demonstrating a significant commitment to sustainability.

### Recommendation:

- Regular cleaning of light fixtures to be done to get maximum lux level.
- Stickers emphasizing "Save Electricity" or "Switch Off" shall be displayed near sockets or switches.





## Chapter 04: Air Conditioning

Following is the list of ACs present in the campus:

| Type of AC<br>(Windows/Split/Package<br>and Location) | Capacity<br>in Ton | Whether any<br>star rating<br>available | Set<br>Temperature | Running<br>Hours | Whether AC<br>performance<br>is<br>satisfactory<br>(Yes/No) |
|---|--------------------|---|--------------------|------------------|---|
| Windows ( Seminar hall)                               | 1.5                | 3                                       | 26                 | 8                | Yes   |
| Backup room   | 1.5                | 3                                       | 25                 | 8                | Yes   |
| Computer center                                       | 1                  | 3                                       | 26                 | 8                | Yes   |

### Observation:

- All air conditioners are found to be functioning properly and well maintained.
- Regular servicing and maintenance of air conditioners are done with proper cleaning.

### Recommendation:

- All doors to be kept closed while using the air conditioners and regular annual service of AC's should be carried out.
- Set Temperature of Air Conditioner shall be maintained at 26°C.
- A reduction in 1°C set point temperature, the energy cost comes down by 5%. By carefully selecting the seasonal temperature in different areas as per requirement considerable saving on account of power consumption can be achieved.
- In the future, when replacing air conditioners, consideration shall be given to BEE 5-star rated models, which are designed to be energy efficient.
- Installation of AC energy savers can be considered for air conditioners having longer running hours.





**Air Conditioner**





## Chapter 05: Pumps and Motors

| Name of Pump and make | Running Hours | Any VFD | Rated Capacity in KW | Flow Rate (LPM) | Head | RPM  |
|-----------------------|---------------|---------|----------------------|-----------------|------|------|
| TEXMO                 | 5.0           | 2.2     | 0.75                 | 100             | -    | 2800 |

### Observation:

- These pumps are strategically placed to ensure efficient water distribution and management throughout the Campus. All pumps and motors are functioning properly and well maintained.

### Recommendation:

- Proper maintenance and upkeep of pumps and motors to be done.





## Photographic Evidence



DG Set



Transformer





Solar Plant



Air Conditioner







## Conclusion

The energy audit performed at HSBPVT'S GOI Faculty of Management showcased commendable efforts towards sustainability within the college. The replacement of conventional lights with energy-efficient LED alternatives marks a significant stride in reducing energy consumption.

Despite these advancements, there remains untapped potential for further enhancing energy efficiency. The audit report likely contains specific recommendations aimed at maximizing sustainability efforts. Implementing these suggestions could significantly bolster the college's energy-saving initiatives, continuing the positive trajectory towards a more environmentally conscious campus.

**End of Report**





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

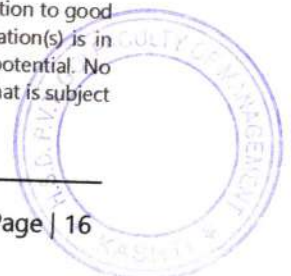
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### **DISCLAIMER**

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.

Elion Technologies and Consulting is not liable for any damages incurred by the organization through implementation of the energy saving proposals either to it or to any third party getting impacted by the implementation of this report.

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.





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## Alternate sources of energy and energy conservation measures

Alternative sources of energy and energy conservation measures play pivotal roles in institutional sustainability efforts. Alternative energy sources encompass a range of technologies such as solar, wind, hydroelectric, biomass, geothermal, and tidal energy. Solar energy harnesses sunlight through photovoltaic cells or concentrated solar power, while wind energy utilizes turbines to convert wind kinetic energy into electricity. Hydroelectric power taps into flowing water through dams or run-of-river systems, and biomass energy uses organic materials for heat or biofuels. Geothermal energy utilizes heat from the Earth's interior, and tidal energy harnesses the movement of tides for electricity generation. Concurrently, energy conservation measures are equally imperative, encompassing strategies like efficient lighting with LED bulbs and motion sensors, upgrading to energy-efficient appliances, enhancing insulation and weatherization to minimize heating and cooling needs, optimizing HVAC systems with programmable thermostats, conserving water with low-flow fixtures and efficient irrigation systems, and promoting sustainable transportation practices such as public transit use and electric vehicles. Together, these initiatives underline the institution's commitment to reducing carbon footprint, promoting sustainability, and ensuring efficient resource management for a greener future.



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### • Generator system with portable van

The institute has implemented a generator system housed within a portable van, providing crucial backup power capabilities. This setup ensures uninterrupted electricity supply during emergencies or planned outages, enhancing operational resilience across campus facilities. The portable nature of the van allows for swift deployment to different locations as needed, supporting diverse operational needs and ensuring continuity of essential services. This solution is versatile, adaptable, and integral to maintaining seamless operations during power disruptions, reflecting the institution's commitment to preparedness and efficiency.





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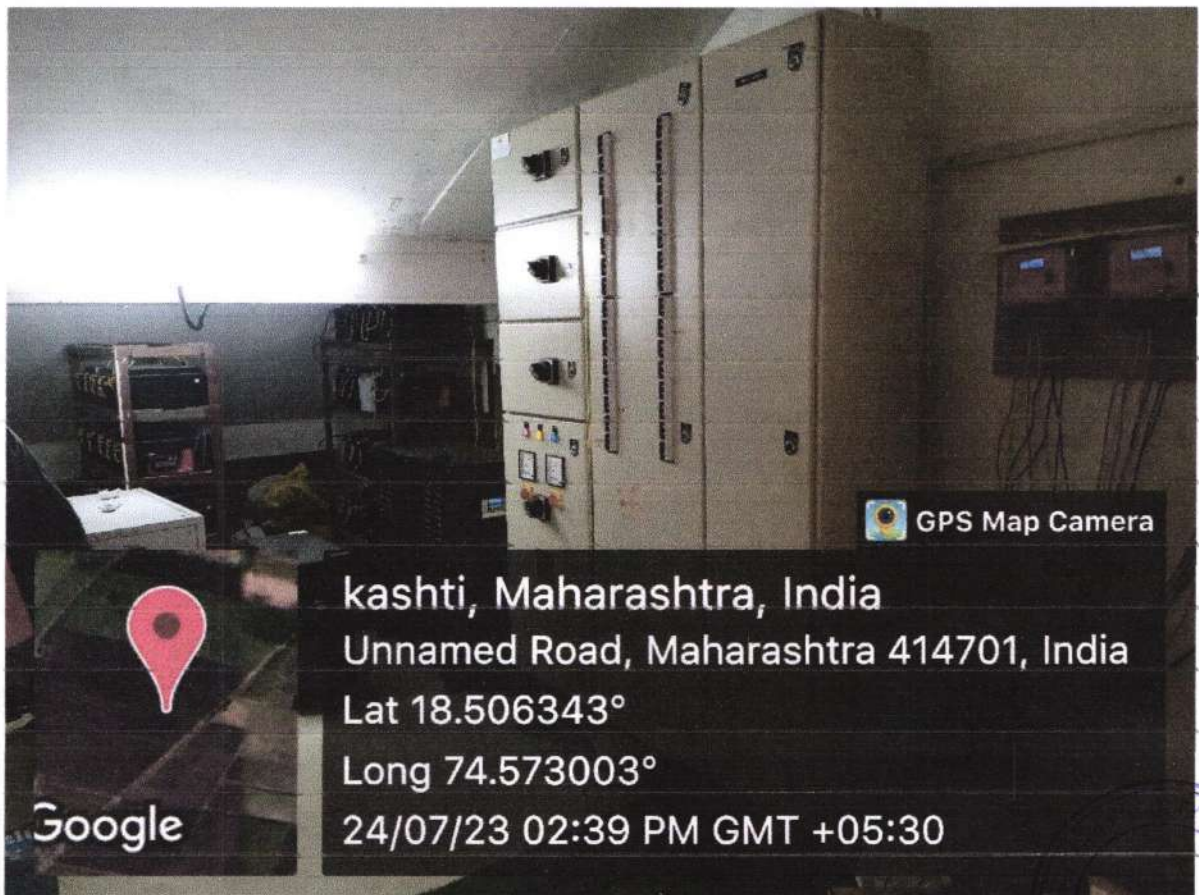
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### • UPS room

The institute has designated a UPS (Uninterruptible Power Supply) room that serves as a critical component of its infrastructure. This room houses UPS units, which provide backup power to essential equipment and systems during mains power failures. The UPS room is equipped with battery banks that ensure seamless operation of computers, servers, and other sensitive electronic devices, preventing data loss and maintaining operational continuity. Regular maintenance and monitoring of UPS units in this dedicated room are prioritized to uphold reliability and efficiency in safeguarding against power interruptions.



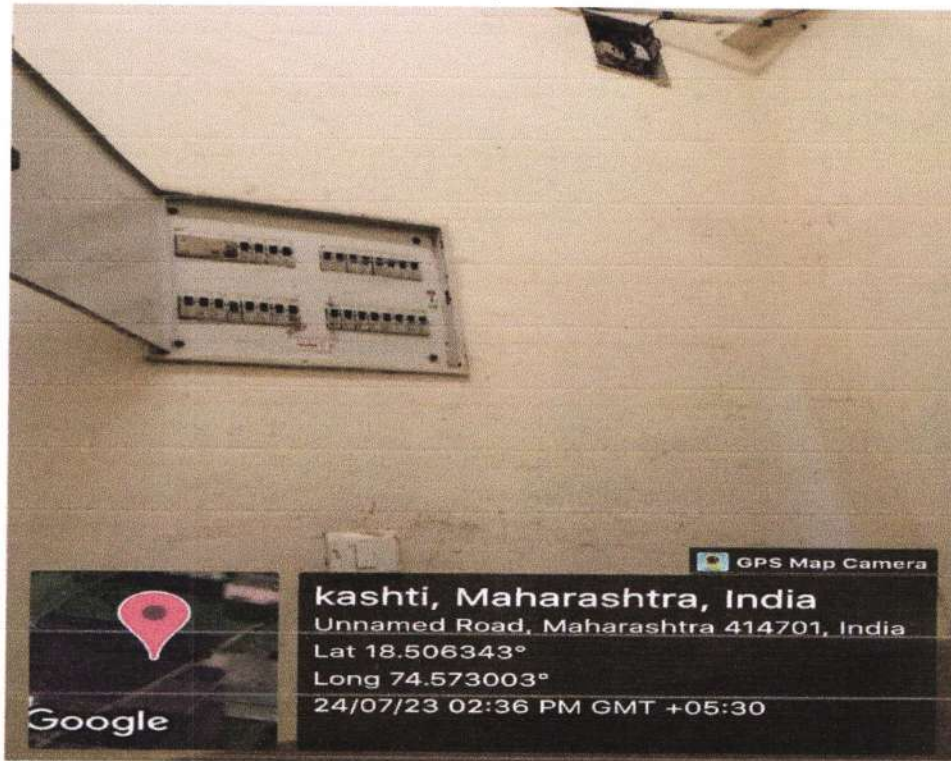
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### • Sensor based switch for auto on / off lights and fans

At the institute, sensor-based switches have been installed to automate the operation of lights and fans, ensuring energy efficiency and convenience. These switches utilize motion sensors to detect activity within rooms, automatically turning lights on when someone enters and off when the area is vacant. Similarly, they control the operation of fans based on occupancy, optimizing energy use by ensuring devices are only active when needed. This technology not only reduces energy consumption but also enhances comfort and operational efficiency throughout the institute, aligning with sustainable practices and improving overall environmental impact.





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### • Solar Panel for electricity back up

The institute has integrated solar panels to provide backup electricity, enhancing its resilience against power disruptions while promoting sustainability. These solar panels harness sunlight to generate electricity, which is stored in batteries for use during grid outages or peak demand periods. This setup not only ensures reliable backup power but also reduces reliance on traditional energy sources, cutting down operational costs and carbon footprint. The institute's adoption of solar panels for backup electricity underscores its commitment to sustainable practices and environmental stewardship, aligning with broader efforts to achieve energy independence and efficiency.



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# Certificate

This is to certify that Environment Audit at **HSBPVT'S GOI Faculty of Management, Maharashtra** was carried out for the year **2022 - 23**.

The campus has supplied essential data and credentials for evaluation. It has implemented a rainwater harvesting system for recharging the groundwater level of the campus.

Audit Date – 08/02/2023  
Valid Up to – 09/02/2024



Audit Officer



Certificate Number  
ENV/2024/HGFM





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### Management of the various types of degradable and non-degradable waste

The institute emphasizes efficient management of both degradable and non-degradable waste as part of its environmental stewardship initiatives for NAAC accreditation. Degradable waste, such as organic matter and food scraps, is processed through composting to produce nutrient-rich soil amendments for landscaping and agriculture. Non-degradable waste, including plastics, metals, and glass, undergoes rigorous recycling processes to minimize landfill accumulation and conserve resources. Additionally, the institute implements segregation at source and promotes awareness campaigns to educate stakeholders on responsible waste disposal practices. By adopting comprehensive waste management strategies, the institute aims to reduce environmental impact, promote sustainability, and uphold its commitment to fostering a cleaner and healthier campus environment.

#### A] Dumping of waste in open ground away from campus

By adhering to proper waste management protocols, the institute aims to mitigate environmental degradation, safeguard public health, and uphold its commitment to maintaining a clean and sustainable campus environment for all stakeholders.



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- **Dumping of mess food waste in pit for production of compost manure**

The institute has implemented a sustainable practice of composting mess food waste by dumping it into designated pits. This method effectively recycles organic matter from the mess into nutrient-rich compost manure, which is then used to enrich the soil for gardening and landscaping purposes. Composting not only reduces the volume of waste sent to landfills but also supports eco-friendly initiatives by promoting natural fertilization methods. The institute's commitment to composting mess food waste not only aligns with environmental sustainability goals but also demonstrates responsible waste management practices, contributing to a greener and healthier campus environment.



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### Water conservation

Water conservation is a critical aspect of sustainable environmental management, essential for ensuring the availability of freshwater resources for future generations. It involves reducing water wastage, improving water use efficiency, and implementing practices that preserve and protect water quality. By conserving water, we not only address the challenges of water scarcity and drought but also minimize the energy required for water treatment and distribution. From efficient irrigation techniques to promoting responsible domestic and industrial water use, water conservation initiatives play a pivotal role in mitigating the impacts of climate change and preserving ecosystems. Embracing water conservation practices is integral to fostering resilience, promoting economic stability, and safeguarding the health and well-being of communities worldwide.

- **Water storage in well near herbal garden**

Adjacent to the herbal garden, the institute has established a well for efficient water storage, ensuring sustainable irrigation practices. This well serves as a vital reservoir, collecting and storing rainwater and other sources to supplement watering needs for the herbal garden. By utilizing stored water, the institute minimizes reliance on external water sources, promotes self-sufficiency in irrigation, and conserves water resources effectively. This initiative not only supports the thriving growth of medicinal plants but also exemplifies the institute's commitment to environmental sustainability and responsible resource management.



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- **Water storage in lake in campus. Rain water is collected and stored in this lake for further use (Rain water harvesting)**

The campus features a centrally located lake dedicated to rainwater harvesting, serving as a key reservoir for water storage and sustainability efforts. This lake plays a crucial role in collecting rainwater from the surrounding areas, which is then stored and utilized for various purposes across the campus. By harnessing rainwater through this system, the institute reduces dependency on external water sources, mitigates the impact of droughts, and ensures consistent availability of water for irrigation, landscaping, and other needs. This sustainable practice of rainwater harvesting not only supports environmental conservation but also underscores the institute's commitment to responsible water management and resilience in the face of climate variability.



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### • Rain Water Harvesting

The campus has a central lake designed for rainwater harvesting, serving as a primary reservoir for water storage and sustainability initiatives. This lake collects rainwater from its surroundings, storing it for diverse campus uses. By utilizing rainwater in this manner, the institute lessens its reliance on external water sources, helps mitigate drought impacts, and guarantees a steady supply of water for irrigation, landscaping, and other essential needs. This sustainable approach to rainwater harvesting not only promotes environmental conservation but also highlights the institute's dedication to responsible water management and resilience amidst climate challenges.



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### • Water Treatment Plant

The campus operates a state-of-the-art water treatment plant, crucial for ensuring safe and reliable water supply throughout the facilities. This plant employs advanced purification processes to treat raw water from local sources, removing contaminants and impurities to meet stringent quality standards. Through filtration, disinfection, and monitoring protocols, the plant ensures that potable water is consistently delivered to students, staff, and visitors. The facility plays a vital role in promoting public health by safeguarding against waterborne diseases and pollutants, reflecting the institution's commitment to providing clean and sustainable water resources for the campus community.



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### • Water Treatment Tank

The water treatment tank on campus serves as a critical component of the infrastructure, facilitating the purification and distribution of clean water. This tank plays a pivotal role in the treatment process by storing raw water sourced from local supplies before undergoing filtration and treatment procedures. It ensures that the water meets quality standards by removing impurities, sediment, and harmful substances through a series of treatment stages such as sedimentation, coagulation, filtration, and disinfection. The treated water stored in the tank is then distributed to various campus facilities, ensuring a reliable and safe water supply for drinking, cooking, sanitation, and other essential purposes. The water treatment tank is integral to maintaining public health, supporting sustainable practices, and fulfilling the campus's commitment to providing high-quality water resources for the community.



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Revolution in Education

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## Faculty of Management

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### • Drinking water facility

Water drinking facilities on campuses play a vital role in promoting the health and well-being of students, faculty, and staff alike. These facilities, strategically placed throughout campus buildings, dormitories, and outdoor areas, provide convenient access to clean and safe drinking water. By encouraging hydration, they support cognitive function and overall productivity among students during classes, study sessions, and recreational activities. Additionally, modern campuses often integrate eco-friendly water stations equipped with bottle refill options, reducing plastic waste and promoting sustainability. Accessible and well-maintained water drinking facilities not only meet basic hydration needs but also contribute to creating a healthy and environmentally responsible campus community.



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# Elion Technologies & Consulting Pvt Ltd

# Certificate

This is to certify that Green Audit at **HSBPVT'S GOI Faculty of Management, Maharashtra** was carried out for the year **2022 - 23**.

The campus has submitted the necessary data and credentials for review. The actions and measures taken by the college have been verified. The college's efforts in environmental preservation and sustainability are acknowledged and praised.

Audit Date – 08/02/2023  
Valid Up to – 09/02/2024

  
  
Audit Officer

Certificate Number  
GA/2024/HGFM





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### GREEN CAMPUS INITIATIVE

A green campus refers to an institution of higher learning that prioritizes environmental sustainability across its operations, infrastructure, and academic programs. This report explores the key elements and benefits of establishing a green campus.

#### Key Elements of a Green Campus:

1. **Energy Efficiency:** Implementing energy-efficient technologies and practices such as LED lighting, smart HVAC systems, and renewable energy sources like solar panels.
2. **Water Conservation:** Utilizing water-saving fixtures, promoting water reuse, and implementing landscaping practices that minimize water usage.
3. **Waste Management:** Emphasizing recycling programs, composting organic waste, and reducing overall waste generation through sustainable procurement practices.
4. **Transportation:** Encouraging alternative transportation options such as biking, walking, and public transit, and providing infrastructure like bike racks and electric vehicle charging stations.
5. **Green Buildings:** Constructing or retrofitting buildings to meet green building standards (e.g., LEED certification), focusing on energy efficiency, indoor air quality, and sustainable materials.
6. **Education and Awareness:** Integrating sustainability into the curriculum, promoting environmental literacy, and organizing awareness campaigns and events.

#### Benefits of a Green Campus:

1. **Environmental Impact:** Reducing carbon footprint, conserving natural resources, and protecting biodiversity.
2. **Cost Savings:** Lowering utility bills through energy and water efficiency measures, minimizing waste disposal costs, and attracting funding through sustainability initiatives.
3. **Health and Well-being:** Improving indoor air quality, promoting physical activity through active transportation, and fostering a sense of community and pride among stakeholders.

**Educational Opportunities:** Providing hands-on learning experiences in sustainability-related fields and preparing students to be environmentally responsible citizens and future leaders.



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- **Entrance with abundant tree plantations**

The entrance of a campus adorned with abundant tree plantations presents a welcoming and serene atmosphere, embodying the essence of environmental stewardship and natural beauty. As visitors and members of the community approach, they are greeted by a canopy of trees that not only enhances the aesthetic appeal but also contributes to a healthier environment. The lush greenery provides shade during sunny days and creates a refreshing microclimate, promoting a sense of tranquility and well-being. Moreover, these tree plantations serve as a testament to the campus's commitment to sustainability, demonstrating a proactive approach to carbon sequestration, air purification, and biodiversity conservation. Overall, the entrance adorned with abundant tree plantations not only enhances the physical landscape but also symbolizes the institution's dedication to creating a greener and more sustainable future.



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### • Speed limit boards at campus roads

Speed limit boards positioned along campus roads play a crucial role in ensuring safety and maintaining order within the campus environment. These clearly marked signs serve as reminders to drivers, students, faculty, and visitors alike, encouraging them to adhere to designated speed limits. By promoting responsible driving habits, these boards help mitigate the risk of accidents and injuries, particularly in high-traffic areas or near pedestrian zones. They contribute to creating a safer and more conducive environment for walking, cycling, and other forms of non-motorized transportation on campus. Additionally, speed limit boards foster a culture of awareness and respect for shared spaces, aligning with the campus community's commitment to prioritizing safety and well-being for all individuals on campus grounds.



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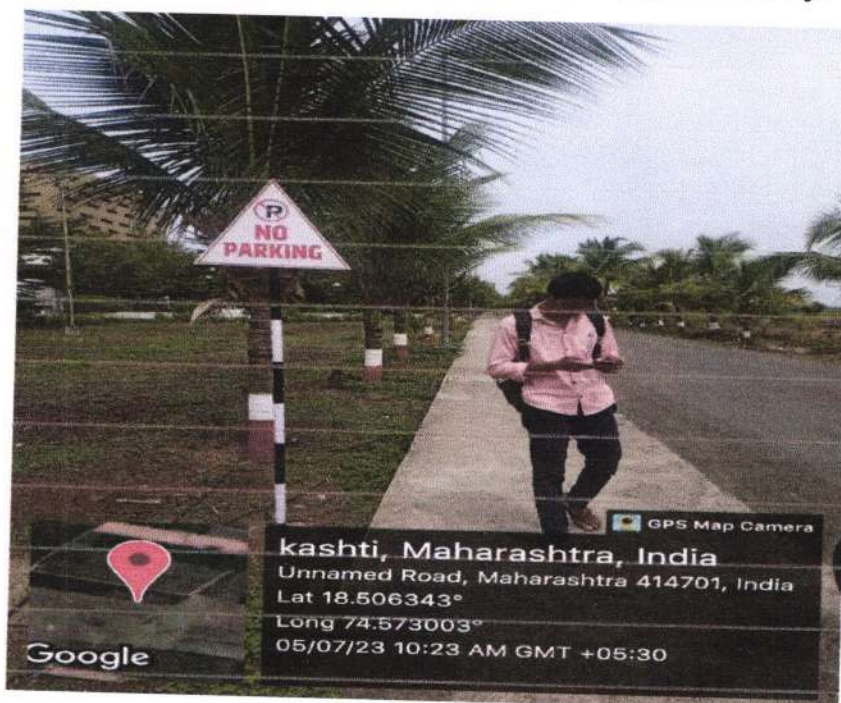
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- **No Parking Boards in campus**

No parking boards strategically placed throughout campus areas are essential for maintaining order and ensuring efficient traffic flow. These clearly marked signs delineate designated no-parking zones, preventing obstruction and congestion in critical areas such as fire lanes, loading docks, and pedestrian walkways. By enforcing these regulations, the campus administration promotes safety and accessibility for all members of the community, including students, staff, and visitors. Furthermore, no parking boards contribute to the overall aesthetic and functionality of the campus environment by preserving open spaces and maintaining clear pathways for emergency vehicles and pedestrians. Their presence underscores the institution's commitment to creating a well-managed and organized campus that prioritizes both convenience and safety.





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### • Greenery around college building

The greenery surrounding college buildings not only enhances their aesthetic appeal but also contributes significantly to the overall environment and well-being of the campus community. Lush vegetation, including trees, shrubs, and gardens, creates a peaceful and inviting atmosphere, providing a natural escape from the hustle and bustle of academic life. These green spaces serve as outdoor classrooms, recreational areas, and places for social interaction, fostering a sense of connection with nature among students, faculty, and staff. Moreover, the presence of greenery helps to improve air quality, reduce urban heat island effects, and support biodiversity on campus. By integrating sustainable landscaping practices and maintaining diverse plant species, colleges can demonstrate their commitment to environmental stewardship and provide a conducive learning and living environment for everyone in the campus community.



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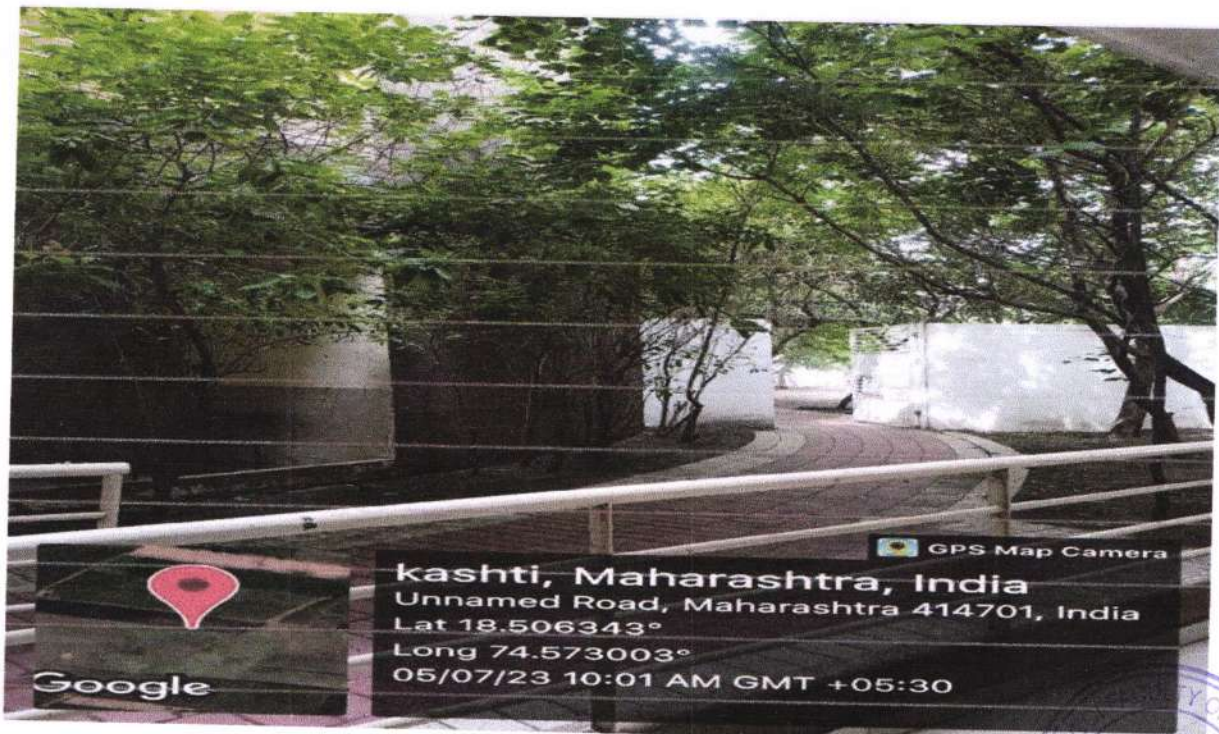
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### • Tree plantations around foot path in campus

Tree plantations along footpaths in campus settings create a serene and inviting environment conducive to walking, relaxation, and social interaction. These carefully landscaped areas offer shade and shelter from the elements, enhancing the comfort and enjoyment of pedestrians. The presence of trees along footpaths not only beautifies the campus but also contributes to environmental sustainability by improving air quality, reducing noise pollution, and mitigating the urban heat island effect. Moreover, the natural scenery created by tree plantations fosters a sense of tranquility and well-being among students, faculty, and visitors, promoting mental and physical health. By integrating tree plantations into footpath design, campuses demonstrate their commitment to creating sustainable and pedestrian-friendly environments that prioritize both aesthetic appeal and ecological balance.



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### • Lavish Green campus view with temple and lake

A lavish green campus adorned with a serene temple and scenic lake offers a picturesque and tranquil setting that blends natural beauty with cultural heritage. The lush greenery enveloping the campus creates a refreshing atmosphere, providing students, faculty, and visitors with a rejuvenating environment for study, reflection, and leisure. The temple, nestled amidst the verdant landscape, adds a touch of spirituality and historical significance, serving as a focal point for cultural activities and gatherings. Meanwhile, the presence of a tranquil lake enhances the campus's charm, offering opportunities for recreational activities such as boating, fishing, or simply enjoying the peaceful waterside ambiance. Together, these elements create a harmonious blend of nature, culture, and relaxation, making the lavish green campus with its temple and lake a truly enchanting place for the entire campus community to cherish and enjoy.



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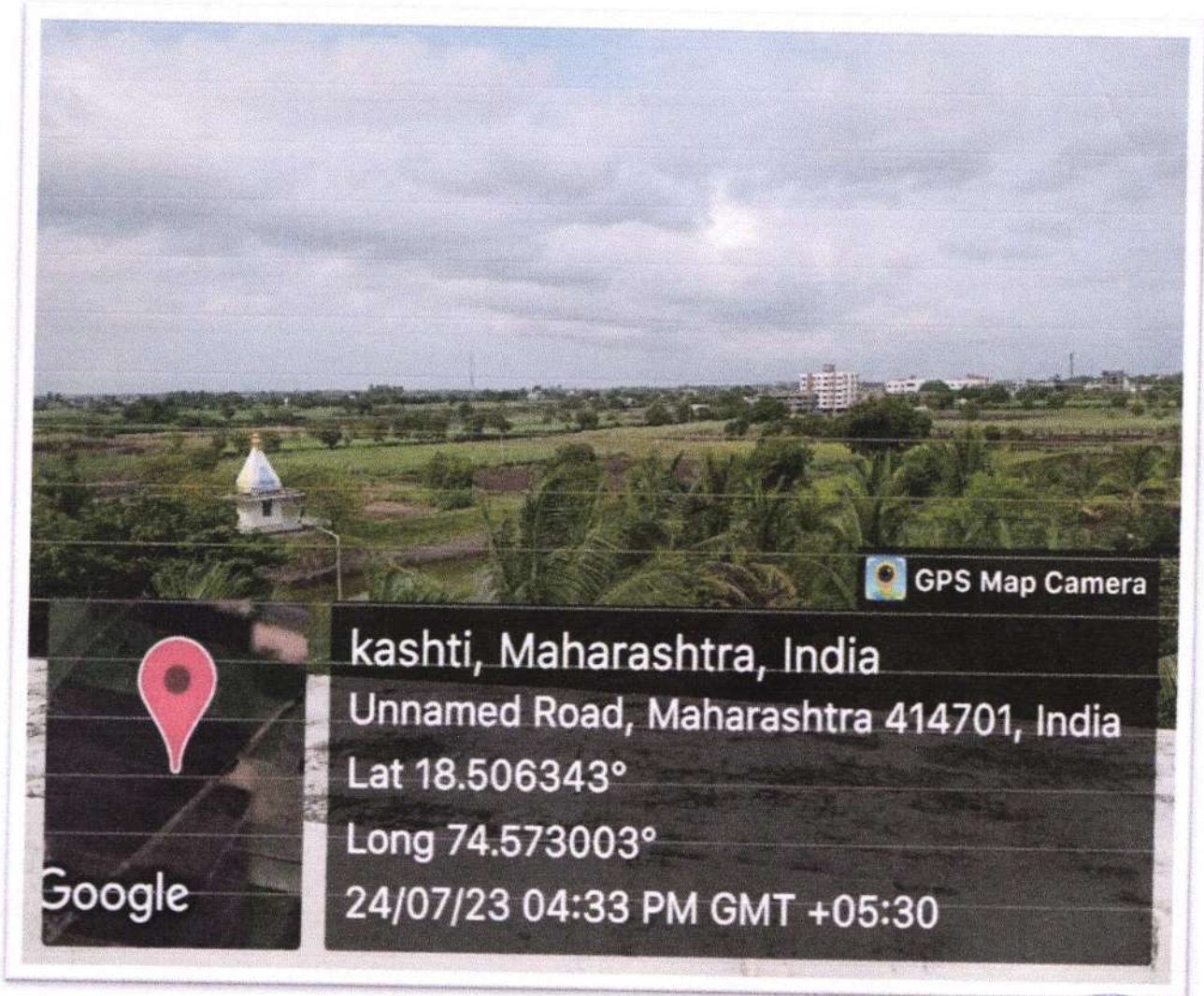
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- Lavish Green campus view with temple and lake



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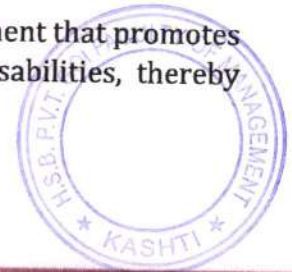
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### • Disabled- friendly, barrier free environment

Creating a disabled-friendly, barrier-free environment on campus is essential for ensuring inclusivity and accessibility for all individuals, regardless of physical abilities. This involves implementing various measures and infrastructure improvements to accommodate the needs of people with disabilities:

1. **Accessible Buildings:** Ensuring all buildings are equipped with ramps, elevators, and wide doorways to facilitate easy access for wheelchair users and individuals with mobility aids.
2. **Accessible Parking:** Designating accessible parking spaces close to building entrances and ensuring they are well-marked and easily accessible.
3. **Accessible Restrooms:** Providing accessible restrooms equipped with grab bars, accessible sinks, and adequate space for maneuverability.
4. **Accessible Pathways:** Installing smooth and well-maintained pathways with ramps, curb cuts, and tactile paving to assist visually impaired individuals.
5. **Assistive Technologies:** Incorporating assistive technologies such as hearing loops, Braille signage, and accessible computer stations in libraries and computer labs.
6. **Training and Awareness:** Educating staff, students, and faculty on disability etiquette, accessibility features, and emergency protocols to ensure a supportive and respectful environment.
7. **Inclusive Design:** Implementing universal design principles in campus planning and renovations to create spaces that are usable by people of all ages and abilities.
8. **Support Services:** Offering support services such as disability resource centers, accessible transportation options, and personal assistance services to enhance accessibility and independence.

By prioritizing these initiatives, campuses can foster an inclusive environment that promotes equal opportunities, independence, and dignity for individuals with disabilities, thereby enriching the overall campus experience for everyone.



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### • Ramp for disabled person

A ramp designed for disabled persons is a crucial accessibility feature that ensures equal access to buildings and facilities for individuals with mobility challenges. These ramps are specifically constructed to meet certain standards and guidelines to provide safe and convenient access.



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- **Lift for disabled person**

A lift for disabled persons, also known as a wheelchair lift or platform lift, is a vital accessibility feature in buildings where stairs or elevation changes pose barriers to individuals with mobility impairments. These lifts are designed to safely transport wheelchair users and individuals with limited mobility

