# SWAMI VIVEKANAND SUBHARTI UNIVERSITY

# GREEN AUDIT REPORT

**2024-2025**

**Prepared By :**

EHS ALLIANCE

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# CERTIFICATE

EHS alliance

## CERTIFICATE

PRESENTED TO

## SWAMI VIVEKANAND SUBHARTI UNIVERSITY

Subhartipuram, NH-58, Delhi-Haridwar Bypass Road, Meerut-250005

Has been assessed by EHS Alliance for the comprehensive study of environmental impacts on institutional working framework to fulfill the requirement of

## GREEN AUDIT

**ACADEMIC YEAR 2024-25**

The green initiatives carried out by the institution have been verified on the report submitted and was found to be satisfactory.

The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.

EHS ALLIANCE LLP GURUGRAM

**SIGNATURE**

**03.11.2025**
**DATE OF AUDIT**

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001
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# ACKNOWLEDGEMENT

EHS Alliance Services would like to thank the management of Swami Vivekanand Subharti University for assigning this important work of Green Audit. We appreciate the co-operation to the teams for completion of assessment.

First of all, we would like to thank *Prof. (Dr.) Pramod K. Sharma - Vice Chancellor* for giving us an opportunity to evaluate the environmental performance of the campus.

We are also thankful to *Prof. (Dr.) Mukesh Ruhela - Professor & Head Department of Environmental Engineering*, for his continuous support and guidance, without which the completion of the project would not have been possible. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

We are also thankful to

| | |
|---|---|
| *Prof. (Dr.) Shalya Raj* | *CEO, Subharti University* |
| *Group Capt. M. Yakoob* | *Registrar* |
| *Mr. Syed Zafar Hussain* | *Registrar (Academics)* |
| *Prof. (Dr.) Kapil Kumar* | *Director, IQAC* |

# DISCLAIMER

EHS Alliance Services Audit Team has prepared this report for Swami Vivekanand Subharti University based on input data submitted by the representatives of university complemented with the best judgment capacity of the expert team.

While all sensible care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

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EHS Alliance staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.



**Signature**

**LEAD AUDITOR - EMS**

# CONCEPT AND CONTEXT

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory from the academic year 2019–20 onwards that all Higher Educational Institutions should submit an annual Green, Environment and Energy Audit Report. Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through Carbon Footprint reduction measures.

In view of the NAAC circular regarding green auditing, the university management decided to conduct an external environment assessment study by a competent external professional auditor. The green audit aims to examine environmental practices within and outside the campus, which impact directly or indirectly on the atmosphere. Green audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of university environment. It was initiated with the intention of reviewing the efforts within the institutions whose exercises can cause risk to the health of inhabitants and the environment.

Through the green audit, a direction as how to improve the structure of environment and inclusion of several factors that can protect the environment can be commenced. This audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the institution. The concepts, structure, objectives, methodology, tools of analysis, and objectives of the audit as below:



# INTRODUCTION

Now a days, the educational institutions are becoming more thoughtful towards the environmental aspects and as a result new and innovative concepts are being introduced to make them sustainable and eco-friendly. To preserve the environment within the institution, a number of viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the saving the energy, waste recycle, water consumption reduction, water harvesting and many more...

The activities carried out by the institution can also create adverse environmental impacts. Green audit is defined as an official inspection of the effects university has on the environment. Green Audit is conducted to evaluate the actual scenario at the institution campus. Green audit can be a useful tool for a university /college to determine how and where they are using the most of the energy or water or resources; the institution can then decide how to implement changes and make savings. It can also be used to determine the nature and volume of waste, which can be used for a recycling project or to improve waste minimization plan.

Green auditing and the application of mitigation measures is a win-win situation for all the institutions, the learners and the mother earth. It can also result in health awareness and can promote the environmental awareness, values and beliefs. It provides a better understanding to staff and students about the Green impact on institution. Green auditing also upholds financial savings through reduction of resource usage. It gives an opportunity to the students and teachers for the development of ownership of the personal and social responsibility. The audit process involves primary data collection, site walk through with the team of university /college including the assessment of policies, activities, documents and records.



# OVERVIEW OF THE UNIVERSITY

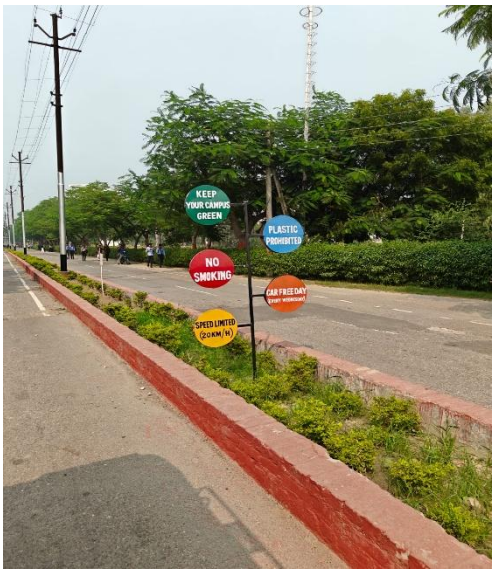
Swami Vivekanand Subharti University is a University under Section 2(f) of the University Grants Commission Act, 1956 set up under the Swami Vivekanand Subharti Vishwavidyalaya Uttar Pradesh Adhiniyam, 2008 (U.P. Act No. 29 of 2008) as passed by the Uttar Pradesh Legislature and assented to by the Hon'ble Governor of Uttar Pradesh in September 2008.

The University has been established under the aegis of Subharti K.K.B. Charitable Trust, Meerut, which has acquired a commendable record of service in the field of Education, Health care and Social welfare.




The main campus of the University is in the National Capital Region, strategically situated on National Highway 58, Delhi-Meerut-Haridwar Bypass Road, Meerut. The campus, aptly called Subhartipuram, is spread over a sprawling area of about 250 acres of land comprising magnificent buildings, lush green lawns and vibrant surroundings with over 8000 people, determined to make this a 'Jewel' in the Crown of the Nation.

The University has several constituent colleges which provide higher education in almost all the disciplines like Medical, Dental, Paramedical, Pharmacy, Engineering, Management, Law, Journalism, Education, Arts and Science, thus engaged in creating highly qualified, academically and technically proficient professionals. The University has also started a number of courses through Distance Education, approved by Joint Committee of UGC, AICTE and DEC.






The university offer following programs

- Undergraduate
- Postgraduate
- Ph.D. Programs
- Diploma Programs
- PG Diploma Programs
- Certificate Courses

VISION & MISSION

| | |
|---|---|
| VISION | To be an acclaimed University that provides contemporary Technical and Professional knowledge, skills as well as research opportunities befitting global scenarios while maintaining Service, Sacrament, and Nationality. |
| MISSION | To develop programs of the highest standards, and to produce confident, self-reliant, responsible youth having skills, social values, leadership, and entrepreneurship bent of mind in highly competitive technologically advanced, ever-changing needs of society. |

## Facilities in the campus

Amenities at Subharti University provides far more than academic and administrative facilities on campus. It is dedicated to provide students with an exceptional infrastructure for learning as well as facilities for simplifying the procurement of fundamental skills. To accomplish the goal, Swami Vivekanand Subharti University offers the following:

**CENTRAL LIBRARY**: SVSU library system consists of two central libraries, seven college libraries, and departmental libraries in various disciplines of Medical Sciences, Engineering, and Technology, Management, Education, Science, Library Science, Fine Arts, Law, Journalism and Mass-Communication. These libraries are located in various centralized locations in the University. These are fully air-conditioned with a seating capacity of more than 2000 library patrons at a time.

**SMART CLASSROOMS**: ICT enabled classrooms integrate smart boards, projectors, and high-speed internet, fostering interactive and engaging lessons. Teachers can utilize digital resources and collaborative tools, accommodating diverse learning styles and encouraging student participation.





**SEMINAR ROOM:** Seminar Rooms equipped with audio-visual technology and video conferencing capabilities, seminar rooms facilitate dynamic discussions and presentations. They allow remote participation, enabling experts to contribute, enriching the learning experience.

**AUDITORIUM**: Auditoriums are designed for larger gatherings, featuring advanced sound systems and multimedia displays. This space supports live streaming and interactive audience engagement, creating an immersive experience for attendees during lectures and events.

**CONFERENCE ROOM:** Conference Rooms are crucial for effective collaboration in professional settings, equipped with video conferencing systems and interactive displays. They enable seamless communication and real-time document sharing, enhancing productivity and ensuring that meetings are efficient and outcomes-focused.

**SPORTS FACILITY:** There is a Huge Olympic Size Sports Open Stadium in the University Campus which has top Sports Facilities including the 400-metre all-weather athletics track, Football Ground, Cricket Ground, Hockey Field, Handball Field, Tennis Court, Basketball Courts, Baseball Court, Volleyball Courts, Kabaddi Courts, Kho-kho Court,

*Indoor Sports Facilities* – University equally provides Badminton Courts, Table tennis Room, Well-equipped Boxing Arena, Carom and Chess Room.

**FITNESS CENTRE**: University offers these Fitness facilities overall development of students.

*Gymnasium* - There are two well-equipped Gymnasiums on the University campus for Boys and one Gym is for Girls; there are separate coaches in GYM for Boys and Girls.

*Yoga* – Yoga has been recognized as the best exercise for Body to Soul level development of an individual. The Department of Naturopathy and Yogic Sciences, Subharti University, conducts Yoga Classes at the University campus on a regular basis.

*SPA*- There is a modern SPA at University campus where students can enjoy this ancient therapy for their well-toned and healthy body.





**HOSTEL:** There are 16 hostels for undergraduates including 2 NRI hostels along with 3 hostels for postgraduates including a hostel for married couples within the University Campus. Strict timings of entry are enforced at all the hostels. Each hostel has a resident warden along with a chief warden (Girls/Boys Separate) for the proper management & care of the students.

**CAFETERIA:** Swami Vivekanand Subharti University offers an excellent choice of places to eat within the University campus. University houses six canteens offering multi–cuisine menus ranging from Indian to Continental and Chinese in a Modern and Hygienic ambiance, with one exclusively for Girls. For Snacks, Juices, Beverages and other Indian and Continental fast foods, there are three Modern Cafeterias in the University Campus. All types of hard drinks and drugs are strictly prohibited. Intake of any hard drink is a punishable crime as per the university norms.

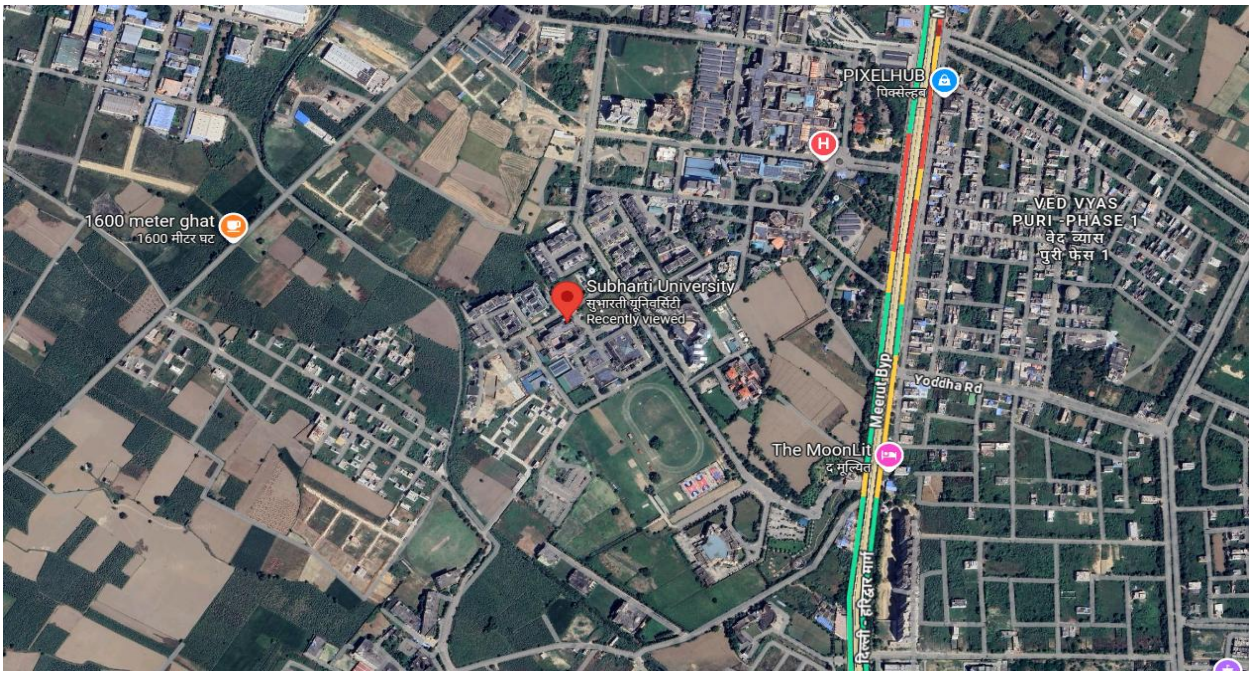




**CAMPUS LAUNDRY:** The University provides laundry service to all residents on the campus. The students are free to choose between the laundry provider or the 'Self Operated' Machine service. The hostellers have the convenience of reaching the 'dhobi' right at their doorstep. For those who

prefer doing things on their own, we have the 'Haier' Self Washing centre! Students can visit the centre, use the washing machines themselves, and get washed clothes after a set period of time.

**BATTERY OPERATED VEHICLES:** The university is using battery-operated rickshaws, scooters, and carts for in-campus transportation.




***Google map Coordinates: 28.9572679,77.6347462***

# AUDIT PARTICIPANTS

On behalf of the University

| Name | Designation |
|---|---|
| Prof. (Dr.) Pramod K. Sharma | *Vice Chancellor* |
| Prof. (Dr.) Shalya Raj | *CEO, Subharti University* |
| Prof. (Dr.) Mukesh Ruhela | *Professor & Head Department of Environmental Engineering* |
| Group Capt. M. Yakoob | *Registrar* |
| Mr. Syed Zafar Hussain | *Registrar (Academics)* |
| Prof. (Dr.) Kapil Kumar | *Director, IQAC* |
| Mr. Manoj Kumar | *Maintenance Department* |
| Mr. Sunil Kumar Sharma | *Addl. Manager, Horticulture* |
| Mr. Hariom | *Manager Maintenance* |
| Mr. V. K. Nagar | *Engineer* |
| Mr. Anand Pal Singh | *Manager, Horticulture* |

On behalf of EHS Alliance Services

| Name | Position | Qualifications |
|---|---|---|
| Dr. Uday Pratap | Lead Auditor | *Ph.D., PDIS, QCI – WASH, Lead Auditor ISO 14001:2015* |
| Ms. Pooja Kaushik | Co-Auditor | *M.Sc., Field Expert, QCI – WASH, PGCCC* |

# EXECUTIVE SUMMARY

Green auditing is an essential step to identify and determine whether the institutional practices are sustainable and ecological. Traditionally, we were upright and efficient users of natural resources. But over the period, excessive usage of resources like water, electricity, petrol, etc. has become habitual for everyone especially, in urban and semi-urban areas. It is the right time to check if we (our process) are consuming more than the required resources? Whether we are using resources sensibly?

Green audit standardizes all such practices and provides an efficient way to use natural resources. In a time of climate change and resource exhaustion, it is necessary to re-check the processes and convert them in to green and sustainable. Green audit provides an approach for the same. It also increases overall awareness among the folks working in the institution towards the eco-friendly environment.

This is the third attempt to conduct a green audit of this campus for fulfilment of NAAC criteria. This audit was mainly focused on greening indicators like consumption of energy in terms of electricity and fossil fuel, quality of soil, water usage, vegetation, waste management practices and carbon footprint of the campus. Initially, a questionnaire was shared to know about the existing resources of the campus and the resource consumption patterns of the students and staff in the campus.



# GREEN AUDIT - ANALYSIS

## 1.1 GENERAL INFORMATION

### 1. Does any Green Audit conducted earlier?

*Yes, this is the third external audit organized by the University*

### 2. What is the total strength (people count) of the Institute?

***Students***
*Male: 6423 Female: 4318 Total: 10741*

***Teachers (including guest faculty)***
*Male: 469 Female: 400 Total: 869*

***Non-Teaching Staff***
*Male: 3784 Female: 6008 Total: 9792*

***Total Strength***
*Male: 10676 Female: 10726 Total: 21402*

### 3. What is the total number of working days of your campus in a year?

*There are one hundred and eighty working days in a year.*

### 4. Where is the campus located?

*The campus is located at Subhartipuram, NH-58, Delhi-Haridwar Bypass Road, Meerut 250005*

### 5. Which of the following are available in your institute?

| | |
|---|---|
| *Garden area* | *Available* |
| *Playground* | *Available* |
| *Kitchen* | *Available* |
| *Toilets* | *Available* |
| *Garbage Or Waste Store Yard* | *Available* |
| *Laboratory* | *Available* |
| *Canteen* | *Available* |
| *Hostel Facility* | *Available* |
| *Guest House* | *Available* |

### 6. Which of the following are found near your institute?

| | |
|---|---|
| *Municipal dump yard* | *Not in the vicinity of the institute* |
| *Garbage heap* | *No Garbage heaps* |
| *Public convenience* | *Public convenience is available* |
| *Sewer line* | *Approximately 4.0 KM sewer line within campus* |
| *Stagnant water* | *No stagnant water* |
| *Open drainage* | *No* |
| *Industry – (Mention the type)* | *No* |
| *Bus / Railway Station* | *Meerut bypass Bus Stop, Meerut Junction Station* |
| *Market / Shopping complex* | *Available* |

## 1.2 WASTE MINIMIZATION AND RECYCLING

### 1. Does your institute generate any waste? If so, what are they?

*Yes, following types of wastes are generated by the campus*

- *Biodegradable waste,*
- *Non-biodegradable waste*
- *Biomedical waste*
- *Hazardous waste*
- *E-waste*

### 2. What is the approximate amount of waste generated per day? (in Kg approx.)

*Biodegradable waste - 400 Kg*
*Non-biodegradable waste -50 Kg*
*Hazardous Waste - 150 Kg*
*Others < 5 Kg*

### 3. How is the waste managed in the institute? By Composting, Recycling, Reusing, Others (specify)

- *Food waste and horticulture waste is collected into pits for composting*
- *Kitchen waste and food waste used in Bio gas plant.*
- *STP (1100 KLD) and ETP (30+10 KLD) are installed is installed for waste water treatment*
- *On campus, single-use plastic is prohibited.*
- *Paper with printing on one side is reused for internal correspondence.*
- *The process of Vermi Composting is used to manage biodegradable trash.*
- *Composting pits and NADEP compost are working*
- *Grey water from university waste is recycled using STP.*
- *33+ Rainwater harvesting pits are there in campus for groundwater recharge*
- *E-waste collection and management through recycled – authorized vendor*

### 4. Do you use recycled paper in the institute?

*Yes, University uses single sided used paper for rough work, assessment work and prints*

### 5. How would you spread the message of recycling to others in the community?

*Following are the ways through which the university is spreading awareness about recycling*

- *E-Waste and plastic waste collection drives.*
- *Installation of Dustbins for waste plastic collection, e-waste collection and recycling*
- *Tie-ups with authorized e-waste collection agency*
- *Awareness among the Students by Webinars, seminars, Sign Boards, sculptures Posters, etc.*

### 6. Can you achieve zero garbage in your institute? If yes, how?

*Achieved and in process to get certified from competent authorities.*

## 1.3 GREENING THE CAMPUS

### 1. Is there a garden in your institute?

*Yes, about 4,857,114 Sq ft areas are developed as Gardens.*

### 2. Do students spend time in the garden?

*Yes, students spend around 2-4 Hours during winter.*

### 3. Total number of Plants in Campus?

| *Plant type with approx. count* | |
|---|---|
| *Full-grown Trees* | *21719* |
| *Small Trees* | *15000* |
| *Hedge Plants* | *473659* |
| *Grass Cover sqm* | *4,857,114 Sq ft* |

### 4. Is the campus having a Horticulture Department? (If yes, give details)

*Yes, Total 52 staff (maali) were deployed in the horticulture department*

### 5. How many Tree Plantation Drives are organized by campus per annum?

*Plantation Drives are Organized by the campus in the last year*
*The survival rate is more than 70%.*

### 6. Is there any Plant Distribution Program for Students and Community?

*Yes, Plantation distribution drives are conducted in nearby Villages under Unnat Bharat. Moreover, University has a practice where all guests are given a planter as a gift rather than a bouquet of flowers.*

### 8. Is there any Plant Ownership Program?

*University is continuously encouraging the students & staff to adopt a tree in their campus*

## 1.4 WATER AND WASTEWATER MANAGEMENT

### 1. List uses of water in your institute

*Basic use of water in campus:*

***Drinking** – 513.84 KL/month*
***Gardening** – 1421.41 Kl/month*
***Kitchen and Toilets** – 2342.58 KL/month*
***Others** – 290.43 KL/month*
***Hostel** – 10103.40 KL/Month*
***Hospital – 10800 KL/Month (Considering 800 Beds in hospital @ 450 Liters/ day)***
***OPD – 720 KL/Month (Considering 1600 OPD patients/ day in hospital @ 15 Liters/ day)***
***Total = 26191.67 KL/Month***

*Note: Please note that all calculations have been made on the basis of NBC 2016 norms as university has no separate water usage records.*

### 2. How does your institute store water? Are there any water-saving techniques followed in your institute?

*Total available water storage of the university is 7,00,000 liters*

***Saving Techniques***

- *Avoid overflow of water-controlled valves are provided in water supply system.*
- *Close supervision for water supply system.*
- *Push taps are installed for water conservation*
- *Water Conservation awareness for new students*
- *Sprinklers usage for gardening and grass cover*
- *Waste waster is recycled using STP*

### 3. Locate the point of entry of water and point of exit of wastewater in your institute.

***Entry** - Water comes from Borewells*
***Exit**- From Canteen, Toilets, Hostel, bathrooms and Labs through covered drainage which is connected to sewage treatment plant of capacity 1100 KLD*

### 4. Write down ways that could reduce the amount of water used in your institute

***Basic ways:***

- *Close the taps after usage*
- *Water Conservation awareness for new students*
- *Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage*
- *Push taps are installed to save water*
- *Water recycling and use of sprinklers for gardening*

## 1.5 ANIMAL WELFARE

### 1. List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)

*25 dogs, 15 Cats, 100+ butterfly species, 300+ Squirrels and 500+ Birds are found in campus. A variety of bird's species and other flora and fauna are available, so institute is doing their bit for bio diversity conservation.*

### 2. Does your institute have a Biodiversity Program or a KARUNA CLUB?

*Yes, Swami Vivekanand Subharti University's environment committee & eco club actively organizes awareness through various campaigns and activities including seminars, poster competition, etc.*

## 1.6 CARBON FOOTPRINT - EMISSION & ABSORPTION

### 1. Electricity used per year - CO2 emission from electricity

*(electricity used per year in kWh/1000) x 0.82*
*= 14766096/1000x0.82*
*= 12108.20 tons*

### 2. LPG/PNG used per year - CO2 emission from LPG/PNG

*(LPG/PNG used per year in KG) x 2.68*
*=44653.44x 2.68*
*=44653.44tons*

### 3. Diesel used per year CO2 emission from HDS (Diesel)

*(Diesel used per year in liters) x 2.68*
*= 310093.13x 2.68*
*=927.18 tons*

### 4. Transportation per year (car) CO2 emission from transportation (Bus and Car)

*=(25*2*2*180/100)*0.01 + 144*4*2*180/100*0.02*
*=43.27 tons*

Total $CO_2$ emission per year is 13198.32 tons

***After considering the carbon absorption capacity of the campus and solar energy export, the total carbon emission is 12346.49 tons***

## CARBON ABSORPTION BY FLORA IN THE INSTITUTION

There are 21719 full-grown trees and 15000 semi-grown trees of different species, on the campus spread over 4,857,114 sq ft.

Carbon absorption capacity of one full-grown tree 22 kg $CO_2$ Therefore Carbon absorption capacity of 21719 full-grown trees 21719 x 22 kg $CO_2$ = 477.82 tons of $CO_2$.

The carbon absorption capacity of 15000 semi-grown trees is 30% of that of full-grown trees. Hence the carbon absorption 15000 x 6.8 kg of $CO_2$ = 102 tons of $CO_2$

There are approximately Hedge Plants 473659 of various species being raised in the gardens and grown in the areas where no buildings are built Carbon absorption of bush plants varies widely with their species. Certain bushes absorb very high level of $CO_2$ whereas some others absorb very low levels of $CO_2$In the absence of a detailed scientific study, 200g of $CO_2$, absorption is taken per bush (in consultation with Environmental Science specialists). Based on this, the total carbon absorption of bushes is 473659 x 200 g = 94.73 tons of $CO_2$

The lawns on the campus have buffalo grass, Mexican grass, and indigenous grass species and cover a total area of 4,857,114 sq. ft. Carbon absorption capacity of a 10 sq. ft. area of lawn is 1 g per day Therefore, carbon absorption by lawn area 4,857,114 x 365 x 0.1 g $CO_2$ = 177.28 tons $CO_2$ per year.

The total of carbon absorption capacity of the campus is 851.83 tons.

**Subharti University is able to reduce approximately 3,315 tons of carbon emission per year from 4MW solar (in campus) plant.**

# GREEN INITIATIVES BY CAMPUS

- **Solid Waste Management**
  - Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
  - Collect paper waste produced on campus and recycle through authorized vendor
  - Reduce use of paper by supporting digitization of attendance and internal assessment records.
  - 'KIOSKs' are installed from which the students can check their profiles and are encouraged to make online entries, online queries, online payments etc.
  - Reduce requirement of printed books by updating the e-books and e-journals collection of the library.
  - Take initiatives to spread awareness amongst students about food wastage and ways of minimizing it.
  - The habit of reusing and recycling non-biodegradable products.
  - Organizing workshops for students on solid waste management.

- There is ban on single use plastic and plastic crockery in the campus.
- University has installed sanitary waste disposal facility by installing incinerator as per CPCB guidelines for the management of sanitary waste -As per Solid Waste Management Rules, 2016

➢ **Liquid Waste Management**
- Maintain leak proof water fixtures.
- Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Reuse of wastewater generated by the Reverse Osmosis (RO) system for gardening.
- STP (1100 KLD) & ETP (30+10 KLD) are installed for waste water treatment

➢ **E-waste Management**
- The University has a separate storeroom for the safe storage of electronic waste. After a certain interval of time university disposes of the E-waste to concerned agencies through the auction process.

➢ **Rainwater harvesting**
- University have installed 33+ rainwater harvesting system at different locations within the campus. These areas help us capture the rainwater by directing it from large surfaces (e.g. Roofs, Fields, Parking etc.) with the help of channel drains to an underground holding tank installed at different locations.
- The rainwater is then sent to the treatment plant or utilised directly for irrigation and other purposes.

➢ **Renewable Energy**
- The university has also installed solar PV (4000 KW) on the rooftop of building.
- The university is using solar lights for street lights.
- Solar water heaters are installed at hostel and canteen.
- The University believes in using cleaner energy such as LED lighting.

➢ **Air Pollution Reduction**
- Personal Vehicles (Students) are not allowed in the campus
- The university is using battery-operated rickshaws, scooters, and carts for in-campus transportation.
- University has practice to go for no car day on Tue, Wed and Thu in every week.

➢ **Environment Committee Initiatives**
- Festivals & Awareness - World Environment Day, World Ozone Day, Earth Day
- Green Action Drives - Tree plantation events, plant adoption
- Education & Outreach - Creative competitions, Nukkad-Natak, awareness exhibitions
- World Environment Day (2025), Plant adoption, biodiversity support, water conservation
- E-Waste Collection, Responsible recycling & pollution reduction

# RECOMMENDATIONS

- Environmental parameters shall be included in the purchase policy to achieve a cradle-to-grave approach for sustainability.
- University should increase drip irrigation to save water in campus.
- The flow rate of taps should be checked; it should not be more than 2.5 Liters/minute. Arrange training programs on environmental management systems and nature conservation for schools and local people.
- More Messages should be displayed at various locations to Aware People of Energy Savings.
- Water Meters should be installed at every building of the institute for monitoring of water consumption per capita.
- Car-pooling practices can be adopted by the campus to minimize air pollution. Increase in the display of environment-conscious posters/paintings/slogans for spreading awareness amongst students.
- Green building guidelines for future expansion projects of the campus.

# CONCLUSION

This audit involves considerable team discussions and meetings with key staff members on a variety of environmental-related topics. The eco club of Swami Vivekanand Subharti University promotes conservation of resources.

Overall, 60% of Swami Vivekanand Subharti University is for landscaping. The University makes a significant effort to act in an environmentally responsible manner and takes into account the environmental effects of the majority of its activities. The recommendations in this report suggest some more ways in which the University can work to improve its practices and develop into a more sustainable institution.

It's important to begin a few things, such as initiating drip irrigation, and increasing plantation drives. Additionally, we strongly advise signing an MOU with third-party authorized vendors for waste management such as plastic, paper, metal, C&D, etc.

# REFERENCE

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices

# ANNEXURE – I PHOTOGRAPHS OF AWARDS AND RECOGNITIONS












# ANNEXURE – II PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS



Well Maintained Campus



Well Ventilated Building



Lush Green Campus



Sports Ground



Paving Stone Installed In Campus




Color Coded Dustbins



Indoor Plants In Campus



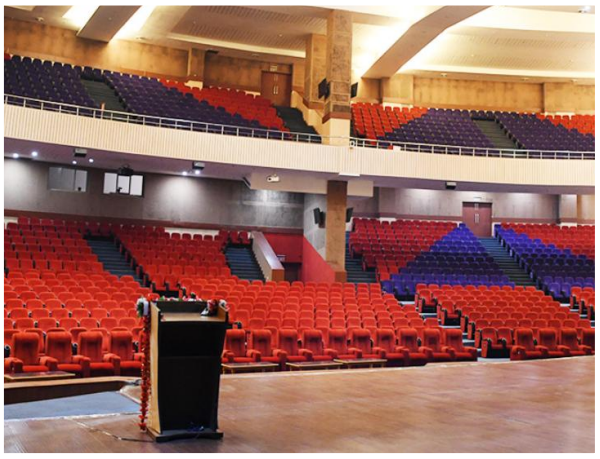
Ornamental Plants In Campus



Smart Classrooms



Spacious Conference Hall



Auditorium



Well Equipped Library



Plant Ownership Program



University Nursery



Green House Nursery



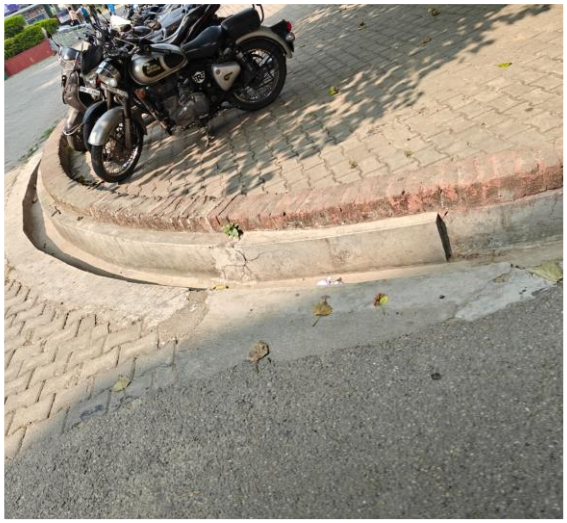

Tree Name Display



Composting




Rainwater Harvesting Unit



Rainwater Drainage



Solar Panel In Parking Area



STP




STP



E-rikshaw For Clean Air



RO Water Purifier

********** END OF THE REPORT **********