

Green Audit report

(2023-24)



Jaykaranti Shikshan Prasarak Mandal's

Swami Vivekanand Mahavidyalaya

Address: P-74 MIDC, Kalamb Road, Latur (Maharashtra)



Green Audit report Submitted by:



Kedar Khamitkar & Associates

Energy Auditor

(Empanelled Mahaurja, Govt. of Maharashtra Institution)

M: 9850244701 Email : urjabachat@gmail.com

INDEX:

Sr.	Titles/Topics	Page
1	Acknowledgement	3
2	Executive Summary	4
3	Chapter No. 1: Scope of work & Methodology	5
4	Chapter No. 2: Introduction about Institute	6
5	Chapter No. 3: Categories of Land use	7
6	Chapter No. 4: Study of Waste Management	8
7	Chapter No. 5: Study of Carbon Footprint	10
8	Chapter No. 6: Best Practices & Activities	11




greeninitiative
For a carbon neutral planet

ACKNOWLEDGEMENT

We express our sincere gratitude to the Principal Dr. S. D. Bondage Sir and the management of M/s. Swami Vivekanand Mahavidyalaya, Latur for awarding us the assignment of Green Audit of their Campus.



Green Audit Team:

Kedar Khamitkar

Energy Auditor

Certified by Bureau of Energy Efficiency, Ministry of Power, Gov. of India
Empanelled Consultant MAHAURJA (Govt. of Maharashtra Institution)

Kishore Khamitkar

B.E. (Chemical) ; DIS ; DNY

Holistic Health Researcher



Date : 16.12.24

Benefits of green IT



Reduces waste and emissions, contributing to a healthier planet



Encourages use of energy-efficient technology that can save money



Enables compliance with laws and regulations



Improves brand perception with customers and partners



Helps recruit and retain employees



Spurs innovative solutions to environmental problems

EXECUTIVE SUMMARY:

Objective	Observation	Recommendation
Categories of Land use	Plantation of trees is started in the campus, at Present 59% area campus is having the Green cover.	Good Initiative
Use of Renewable Energy	Installed Solar Power plant of 75 KWp	Good Initiative
Rain Water harvesting	Found Soak Pits: A soak pit for rainwater provided which helps in collecting and disposing of water.	Recommended to Install Sign Boards. Awareness for Water Conservation.
Water Management	RO water providing safe drinking water.	Recommended for waste water treatment plant.
Bio Waste Management	The Bio Waste – Food Waste generated in the campus is proposed to be feed stock for Bio Gas plant	Good Initiative.
Non Bio Waste	Non Bio Waste – Plastic Bottles / Paper Waste Metals waste is being collected in the dust bins placed across the campus.	It is proposed to install plastic bottle crusher, which can be sold as a Feed stock for the Plastic industry.
E Waste	E Waste – All Electronic Junk is generated in the campus recycled. An agreement is in place with local Company to pick up the E waste every six month	Good initiative



Chapter No.I Scope of Work & Green Audit Methodology

Goals of Green Audit:

Conducted a green audit of M/s. Swami Vivekanand Mahavidyalaya, Latur Campus with specific goals as:

- Geographical Location
- Floral and Faunal Diversity
- Meteorological parameter
- Pollution Eradication
- Energy Consumptions
- Waste Disposal System
- Ambient Environmental Condition
- Evaluate Environmental Footprints
- Efficient and Effective usage of Scarce Resources (Fossil fuel)

Need of Green Audit:

Green auditing is the process of identifying and determining whether institutions practices are eco-friendly and sustainable. Green audit regulates all such practices and gives an efficient way of natural resource utilization. In the era of climate change and resource depletion it is necessary to verify the processes and convert it in to green and clean one. Green audit provides an approach for it. It also increases overall consciousness among the people working in institution towards an environment.

Methodology of Green Audit:

M/s. Swami Vivekanand Mahavidyalaya, Latur Campus has been conducted with specific methodology as follows:



Chapter No.2 Introduction about the Institute

Swami Vivekananda College started in 2020-21 with B.A., B.Com. and B.Sc. College is started the courses of Yashwantrao Chavan Maharashtra Open University these are B.A., B.Com. B.A. in M.C., and B. Lib. The Distance Education from Swami Ramanand Teerth University is established in M.A. and M.Com. from 2024-25 The new degree courses are stated about computer subject. B.Sc. (C.S.), B. A. Computer Animation and Web Designing, B. Sc. Information Technology. , B. Sc. Software Engineering. A dedicated group of student of NSS are actively participating in social work.



ARIAL VIEW OF COLLEGE CAMPUS (SOURCE GOOGLE EARTH)



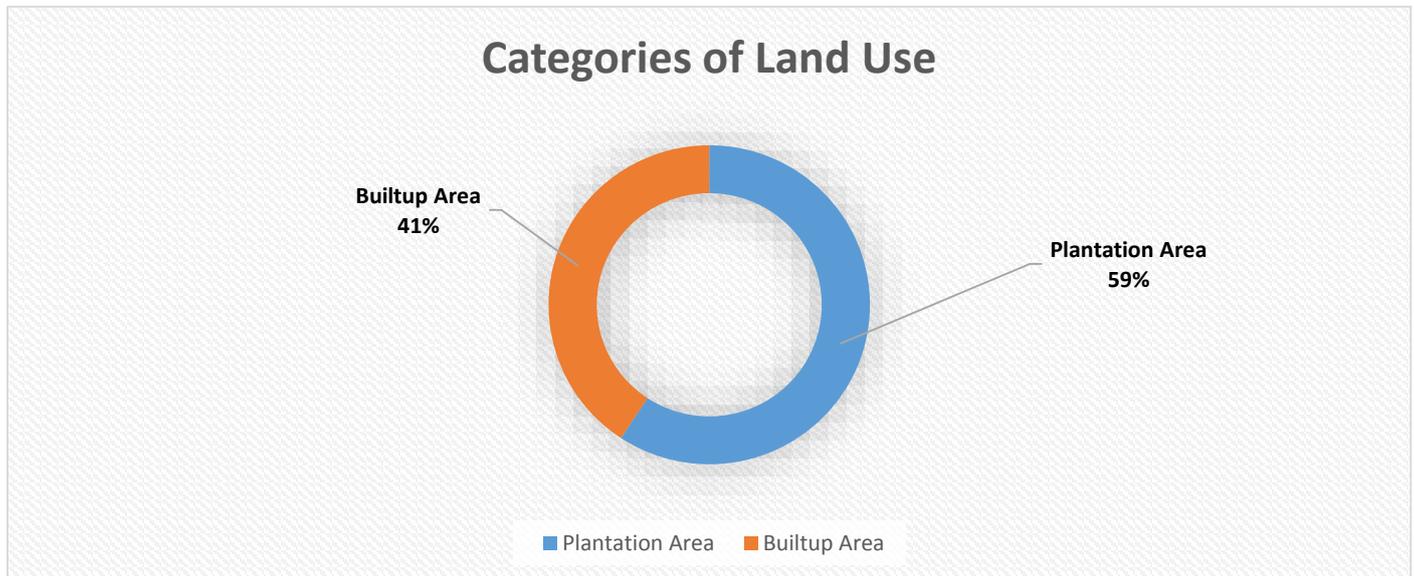
Address: JSPM Campus, P-74, MIDC, Kalamb Road, Maharashtra 413531

Chapter No.3 Categories of Land Use

Plantation of trees is started in the campus and the green cover is extended every year in the campus.

Audit Framework and detailed findings of the Audit:

Built up Area	2305	SQM
Plantation Area	3352	SQM



Green Landscaping with Trees and Plants – the campus is beautifully landscaped.

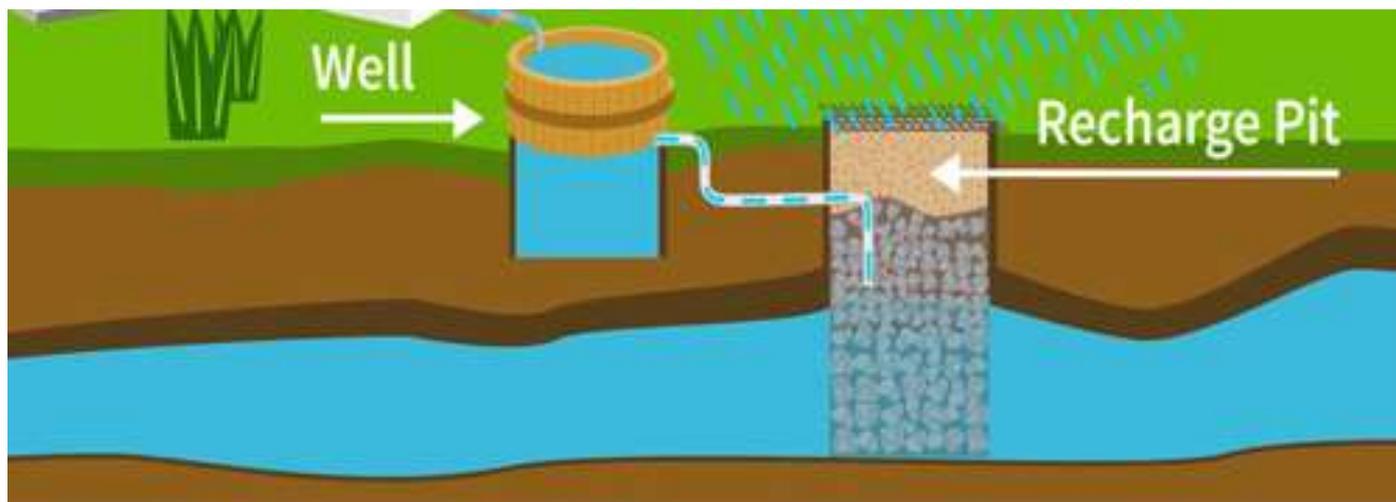


Observations :

At Present 59% area campus is having the Excellent Green cover

Chapter No. 4: Study of Waste Management

Water Conservation



Soak Pits for water conservation: Bore well recharging - Good Initiative

Observations: The College has the facility of rain water harvesting pit.



A soak pit for rainwater provided which helps in collecting and disposing of water.



greeninitiative
For a carbon neutral planet

Solid waste management

- The college is taking utmost care of cleanliness and hygiene. Daily waste is collected by the cleaning staff and segregated into degradable and non-degradable waste.

Observations: Institute has been done Good Management of the various types of degradable and non-degradable waste.

Environmental consciousness and sustainability friendly initiatives

- The leaves, all non-toxic and biodegradable waste, are collected and used to make compost through the composting process, for which pit was made in the campus.
- Solid waste is generated in the form of plastic, glass, metal, newspapers, lab manuals, etc. is stored at one place and scrapped periodically for recycling.
- Non degradable waste (Dry and wet) is collected separately empty bottles, cartons are collected regularly at one place and handed over to the municipal vehicle for collection and proper disposal.



Observations: Biogas Plant found - it is under construction.

Chapter No. 5 : Carbon Footprint

A **Carbon Footprint** is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities. The College Imports Electrical Energy during Night for various Electrical gadgets.



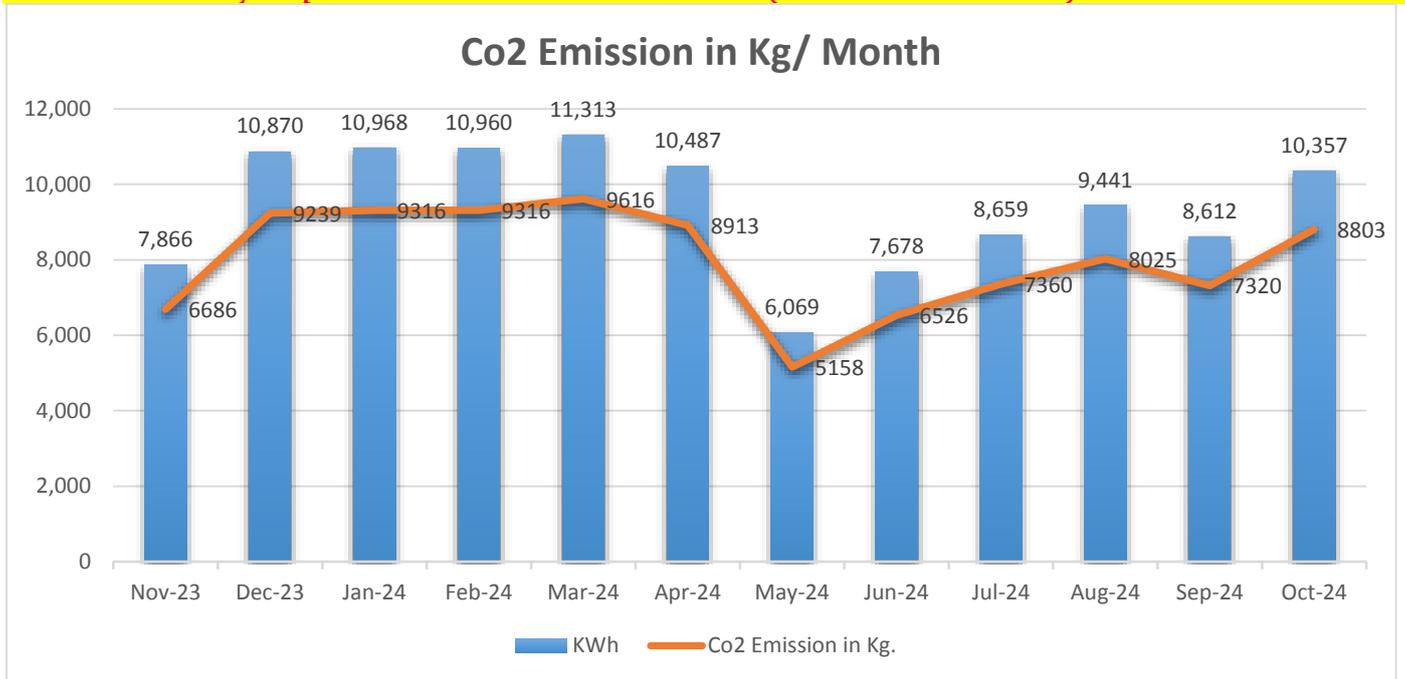
Basis for computation of CO2 Emissions: Electricity Import

The basis of Calculation for CO2 emissions due to Electrical Energy are as under

1 Unit (kWh) of Electrical Energy releases 0.8 Kg of CO2 into atmosphere

Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Annual Electricity Import details: 113280 KWh/Year (Ref. Mahavitrans Bill)



Observations:

The College Imports Electrical Energy during Night for various Electrical gadgets.

Average Annually Carbon Emission due to Electricity IMPORT = 96288_Kg of CO2 into atmosphere.

Suggestions:

1. Install additional Solar Power plant of 50 KW capacity
2. Install Occupancy Sensors to minimize losses in Lighting System

Chapter No. 6 : **Best Practices & Activities**

Institute has been declared their Environment Policy

Policy Document On Environment and Energy Usage

- To install LED bulbs in the complete campus to save energy
- To operate institute building in most efficient energy manner.
- Maximum use of Renewable Energy.
- Encourage a culture of Energy conservation on campus.
- To take additional measures to continuously improve our energy consumption.
- To develop and maintain Energy Management System based on ISO: 50001.
- To encourage use of advanced technology to minimize energy consumption.
- To engage in dialogue with the government agencies, and actively work with the local organizations in the areas of environment, energy efficiency and sustainable development.
- To strengthen our employees' and students' environmental knowledge and skills in order to improve our own environmental performance.
- To provide information and training opportunities on energy saving measures.
- To train our employees and students through our Enviro Club to make them 'Go Green Specialists' and partners to plant trees each year.

Principal



Best Practices & Activities

Several significant and fruitful awareness programs both students and staff of the Campus are arranged every year in the campus. Reflections from students are Evident how effective such awareness programs conducted in the campus. Major programs conducted in the campus during the last Five years.

Nature camps, field trips and some of these activities are year round programs and others are regular year wiser semester wise or any other stipulated time bound programs.

Joint Initiative with MEDA Gov. of Maharashtra Institution

Environmental education through systematic environmental management approach.



National Energy Conservation Week 14th Dec to 20th December

Nature camps, field trips and some of these activities are year round programs and others are regular year wiser semester wise or any other stipulated time bound programs.

National Energy Conservation Week Activities

Joint Initiative with MEDA Gov. of Maharashtra

ENERGY CONSERVATION AWARENESS RALLY



World Environment Day 5th June NSS Activities

The concept behind the tree plantation initiative was to convey the message that tree plantation helps in maintaining a clean eco-friendly environment and reduces pollution and improves green environment.



Mr. Shivajirao Patil Kavekar
Ex-MLA, Latur
Founder President : JSPM, Latur
Chairman : MNS Bank, Latur



Mr. Ajeet Patil Kavekar
Vice President, JSPM, Latur
Corporator: Municipal Corporation, Latur
M.Sc Biotechnology (University of Exeter, England)
MBA Human Resources (Symbiosis International University)
MA International Business (University of Leeds, England)



Crayons Advt. 9673288899

५ जून

जागर
पर्यावरणाचा
प्रयत्न स्वतःला
वाचवण्याचा

जागतिक पर्यावरण दिन

Swami Ramanand Teerth Marathawada University, Nanded Affiliated
SWAMI VIVEKANAND MAHAVIDYALAYA, LATUR
B.Sc., B.Com. (English Medium) & B.A.

JSPM Campus, P-74, MIDC, Near PVR Talkies, Kalamb Road, Latur
☎ 02382-222250, 9404485265 ✉ svmlatur@gmail.com

🌐 www.svmlatur.in @svmlatur @svm_latur