

M/S. GVG ELECTRICAL AND POWER SANGLI

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Ref. No: GVG/2023-24

Date:16/05/2023

Certificate of Environmental Audit

This is to certify that **Shahid Virpatni Laxmi Mahavidyalaya, Titave Tal. – Radhanagari, Dist.- Kolhapur** successfully underwent an '**Environmental Audit**' on **16 May 2023** to assess the Eco-friendly initiatives planning carried out on the campus to maintain a sustainable environment to the stakeholders was found **satisfactory**.

Place- Atpadi



Mr.R.S.Pukale

M/s. GVG Electrical and Power, Sangli

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Ref. No: GVG/2023-23

Date:16/05/2023

Certificate of Green Campus Audit

This is to certify that **Shahid Virpatni Laxmi Mahavidyalaya, Titave Tal. – Radhanagari, Dist.- Kolhapur**, successfully underwent a '**Green Campus Audit**' on **16 May 2023** and assessed the green initiative's planning and efforts carried out in the campus to keep the environment-friendly atmosphere to the stakeholders was found **satisfactory**.

Place- Atpadi



Mr.R.S.Pukale

M/s. GVG Electrical and Power, Sangli



Shahid Shikshan Prasarak Mandal's

Shahid Virpatni Laxmi Mahavidyalaya, Titave

Tal - Radhanagari, Dist. - Kolhapur.

GREEN AUDIT

Introduction:

The green audit aims to analyze environmental practices within and outside the college campuses, which will have an impact on the eco-friendly atmosphere. Green audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of college environment. It was initiated with the motive of inspecting the effort within the institutions whose exercises can cause threat to the health of inhabitants and the environment. Through the green audit, a direction as how to improve the structure of environment and there are include several factors that have determined the growth of carried out the green audit.

Need For Green Auditing:

Green auditing is the process of identifying and determining whether institutions practices are eco-friendly and sustainable. Traditionally, we are good and efficient users of natural resources. But over the period of time excess use of resources like energy, water, are become habitual for everyone especially, in common areas. Now, it is necessary to check whether our processes are consuming more than required resources? Whether we are handling resources carefully? 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 into 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

Goals of Green Audit:

Shahid Virpatni Laxmi Mahavidyalaya, Titave has conducted a green audit with specific goals they are as follows:

1. Identification and documentation of green practices followed by the institute.
2. Identify strength and weakness in green practices.
3. Analyze and suggest solution for problems identified.
4. Assess facility of different types of waste management.
5. Increase environmental awareness throughout campus.
6. Identify and assess environmental risk.
7. Motivates staff and students for optimized sustainable use of available resources.



8. The long-term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

Objectives of Green Audit:

1. To examine the current practices, which can impact on environment such as of resource utilization, waste management etc.
2. To identify and analyze significant environmental issues.
3. To Setup goal, vision, and mission for Green practices in campus.
4. To establish and implement Environment Management in various departments.
5. To continuous assessment for betterment in performance in green environment.

Benefits of Green Audit to Educational Institutions:

There are many advantages of green audit to an Educational Institute:

1. It would help to protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Empower the organization to frame a better environmental performance.
4. It portrays good image of institution through its clean and green campus. Finally, it will help to build positive impression for through green initiatives the upcoming NAAC visit.

Scope of the audit:

The broad aims/benefits of the Eco-auditing system would be

1. Environmental education through systematic environmental management approach
2. Improving environmental standards
3. Bench marking for environmental protection initiatives
4. Sustainable use of natural resource in the campus
5. Financial savings through a reduction in resource use
6. Curriculum enrichment through practical experience
7. Development of ownership, personal and social responsibility for the College campus and its environment
- 8 Developing an environmental ethic and value systems in young people



Executive Summary:

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

INFRASTRUCTURE DETAILS OF TREES AND PLANTS IN CAMPUS:

Sr. No	Common Name	Botanical Name
1	Nutmeg	Myristica fragrans Houtt
2	Clove	Syzygium aromaticum
3	Cinnamon	Cinnamomum verum
4	Neem	Azadirachta indica
5	Aloe Vera	Aloe barbadensis miller
6	Black Pepper	Piper nigrum
7	Hibiscus	Hibiscus
8	Mint	Mentha
9	Sweet neem	Murraya Koenigii
10	Papaya	Carica papaya
11	Tulsi	Ocimum tenuiflorum
12	Vinca	Catharanthus roseus
13	Cymbopogon citratus	Cymbopogon citratus



ROOF TOP SOLAR PANELS:

Roof top solar water heaters are installed in the hostel building. 5KW Grid connected Solar System Used for Water Heating.

LIBRARY:

The college library is partially automated and it has a collection of over 1335 books and a numbers of free resources are available. Internet browsing and OPAC (Online Public Access Catalogue) is also available.

AUDITOIRUM:

The auditorium can accommodate 150 students, aimed at conducting events like department functions, club activities and meeting of various student support organization.

GYMNASIUM:

Gymnasium is provided inside the campus facility to encourage physical activity among the students.

WASTE MANAGEMENT

The food waste generated inside the campus is diverted to a nearby farm on a daily basis. The farm owner takes the food waste and uses it to his needs. An average of 4 kilos of food waste is generated per day.

E-WASTE MANAGEMENT:

E-waste generated in the campus is disposed in scientific and eco-friendly manner.

WATER MANAGEMENT:

Water conservation is a key activity as water availability affects on the development of the campus as well as on all area of development such as farming, industries, etc. Keeping this view water conservation activity is carried out.

SOURCES OF WATER:

1. Bore water A Main source of water is Ground water is extracted to fill the requirement. The college stores the water in overhead tank.
2. The source of wastewater is Domestic Waste Water i.e., Sewage water. The Sewage water mainly comes from Toilets of college, hostel, kitchen and canteen.



3. ENERGY MANAGEMENT

Inverter Details:

Shahid Virpatni Laxmi Mahavidyalaya, Titave has installed 1 electrical inverter. The capacity of inverter is 10 KVA.

ELECTRICITY TREND:

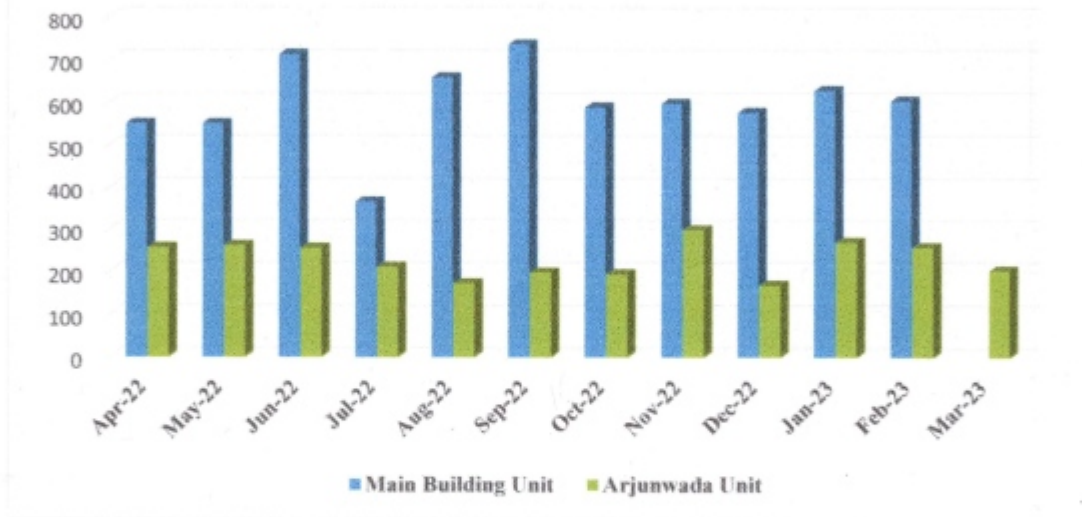
The below graph represents the total electricity consumption trends for the year 2022– 2023 of Shahid Virpatni Laxmi Mahavidyalaya, Titave

2018-2019/2020/2021/2022/2023

Sr. No	Month	Main Building Unit	Arjunwada Unit
1	April 2022	550	256
2	May 2022	550	261
3	June 2022	712	255
4	July 2022	366	211
5	August 2022	658	173
6	September 2022	736	198
7	October 2022	588	194
8	November 2022	597	298
9	December 2022	576	168
10	January 2023	628	269
11	February 2023	603	257
12	March 2023		203



Energy Consumption



Graph of energy uses in year 2022-2023

SUMMARY:

Green Audit is one of the important tools to check the balance of natural resources and its judicial use. Green auditing is the process of identifying and determining whether institutional practices are eco-friendly and sustainable. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. Shahid Virpatni Laxmi Mahavidyalaya, Titave has conducted a "Green Audit" in the academic year 2022-2023. The main objective to carry out green audit is to check the green practices followed by the institute and to conduct a well-defined audit report to understand whether the institution is on the track of sustainable development.

CONCLUSION:

From the green audit following are the conclusions, which can be taken for improvement in the campus.

- 1) All departments generate paper waste. (Journals, reports, etc.)
- 2) Food waste generated in campus is mostly from is collected from dining areas. The food waste is diverted to nearby farm.



Shruti
Principal
Shahid Virpatni Laxmi Mahavidyalaya
Titave, Tal. Radhanagari, Dist. Kolhapur.