

# ENERGY AUDIT

2019-21

## AUDIT REPORT

Studied for

Ashti Taluka Shikshan Prasarak Mandal' s

**Adv. B. D. Hambarde Mahavidyalaya**

MH SH 142, Ashti – 414203

Analysed by



**23 November 2021**

# Disclaimer

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The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

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The Report is prepared by the Team of Greenvio Solutions under their brand and department – Sustainable Academe as Consultancy firm along with Ar. Nahida Shaikh as an Accredited Green Building Professional.

## Greenvio Solutions

*Developing Healthy and Sustainable Environments*

We are an Environmental and Architectural Design Consultancy firm

*Sustainable Academe* is our department for conducting Audits

Palghar District, Maharashtra- 401208

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## Introduction

### About Ashti Taluka Shikshan Prasarak Mandal

The Society has implemented the goal of educating the students in the best way possible by uplifting the academic status of the students through quality education and adopting the local village for overall community development. Meticulous joint efforts of the students and staff have made the institution one of the most sustainable premises in the locality.

### Assessment of the College

**The College is recognised as a Research Centre in Physical Education Institute,** below mentioned are the administrative details of the Institute.

**Affiliations** - The institution is affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

**Recognitions** - University Grant Commission (UGC) by 2(f) 12(b)

**Certification** – The Institute has ISO 9001:2015, NIRF and AISHE Certification

**Accreditation** - The following are details of the reaccreditation of the Institute.

Cycle	First	Second
<b>CGPA</b>		2.78
<b>Grade</b>	B	B++
<b>Year</b>	2001	2016

*Table 1: NAAC Accreditation details of the Institute*

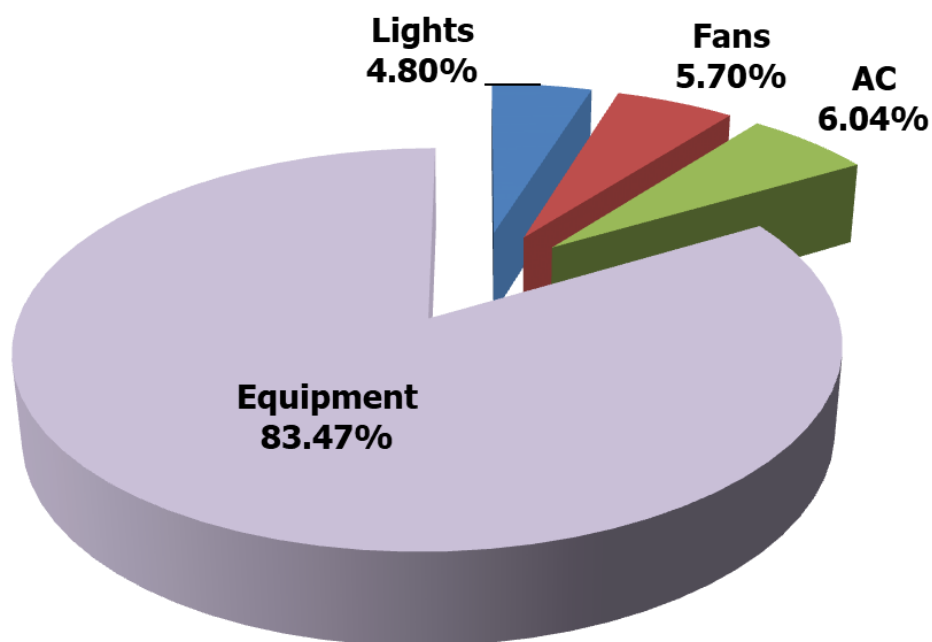
The college is due to enter its Third cycle of NAAC soon.

### Total Institute Area & College Building Spread Area

The total site area is 11.60 acres and total built-up area is 71,318 sq. ft. for approx. 1974+ footfalls.

## Energy Audit

The inventory and data collection for sources of energy consumed in the premise in summarised in the following sections. Note: The following analysis is combined for entire premise taking into considerations the duration before pandemic to understand the consumption pattern as post pandemic the premise is used only for a few hours.



*Figure 1: Summary of the Calculated Electrical Consumption as per inventory*

The above graph shows that Equipment consumes 83.47% followed by AC at 6.04%, Fans at 5.70% and Lights at 4.80% of the total calculated electrical energy.







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## Ecological (Environmental) Audit

As part of our study we could state that the Institution has developed eco-friendly practices and sustainable solutions which are well reflected in the rich biodiversity of the Premises. Being situated near the city the appreciation space towards the main entrance provides a welcoming approach to the College.

The college has huge open space used by all. The students use it for as a leisure place for study and college ground is used for sports activities. There are ample resting spaces as part of building design which provide a resting and warm welcoming approach in the premise.

S. No.	Type	Name	Nos.
A	Bush	Exora	40
		Ephorbia	35
		Lantana	25
		Shatawari	30
		Almana	15
		Pendunus	45
	<b>Total Bushes</b>		<b>190</b>
<b>B</b>	<b>Total Medium Tree (Cono corpus)</b>		<b>70</b>
<b>C</b>	<b>Total Tall Trees</b>		<b>275</b>

*Table 2: Details of the flora in premise*

In the Botanical Garden there are multiple varieties of plantations in innumerable quantities.

- *Mangifera indica*
- *Soursop graviola*
- *Cordia dichotoma*
- *Pteeocarpus marsupium*
- *Stereospermum colais*
- *Sapindus mukorossi*
- *Wrightia antiotys senterica*
- *Terminalia Bellerica*
- *Ehretia Laevis*
- *Careya arborea*
- *Madhuca indica Gmel.*
- *Bixa orellana*
- *Phyllanthus embica*
- *Baliopermum montanum*
- *Plumeria rubra*
- *Lawsonia alba*
- *Adhatoda vasica*
- *Ocimum basilicum*
- *Rademachera xylocarpa*
- *Cholorophytum borivilianum*
- *Asparagus Racemosus*
- *Saraca Asoca*
- *Bryophyllum pinnatum*
- *Prunus amygdalus Batsch*
- *Acacia concinna*
- *Saraca Asoca*
- *Aqadirachta indica*
- *Centella asiatica*
- *Mahua*

## Positive steps taken by the Institute

- Arranging program at college or institute level about environment awareness
- **The positive steps of the college is to provide water for trees in summer**
- Larger trees are planted
- Yeah, in our college there is greenery and cleanliness in surrounding Very good
- **Taking an intelligent approach to energy. Minimising energy use in all stages of a buildings life-cycle, making new and renovated buildings more comfortable and less expensive to run, and helping building users learn to be efficient too.**
- Different flowers & medicinal plant plantation on front of building.
- Working together for waste management and clean environment is the positive steps.
- The first step which has taken by my institute is every year we plants different trees in our institute campus.
- **Plantation of trees every year, Vehicle free Saturday, Waste management and Farm pond**
- Water Harvesting project and Plantation of Neem Trees
- Choose Environmentally Responsible Materials
- **Many positive steps have been taken by the Institute. Institute always conducts many programs at high-level for example Plantation, No more pollution and awareness programs. Also implements new positive rules towards Green Life.**
- We cultivate and maintain the plants.







# GREEN AUDIT

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## Green Practices Audit

The Institution has undertaken the following initiatives through excellent efforts towards save environment measures before pandemic. The NSS Department holds the nature club and various activities like tree plantation, nature cleanliness, visits to nearby flora and fauna are carried out.

- There is **availability of open space in the premise in addition to the provision of the multiple varieties of flora.**
- **Car-pooling, cycling to college practice are observed by the staff and students. Vehicle free Saturday is observed every Saturday to avoid air pollution in premise.**
- There is **organic composting process carried out for decomposition of organic matter of plants and it is used as an organic fertilizer and increase ecology, this is done through Vermiculture.**
- **The ample vegetation benefit the users by providing shade.**
- The NSS Team, College authorities **jointly conduct initiatives for upgrading of the premises from environmental view.**
- **Cleanliness drive is carried out every year on 2nd October, Mahatma Gandhi Jayanti. Cleanliness is also maintained by the cleanliness committee.**

