

GV/RN/EA/11-22/01

# *(Renewal) Energy Audit Certificate*

*The study is conducted as per Indian and International Green Building Standards initiated in the capacity of an Accredited & Certified Green Building Professional*

It is awarded for **2021-2022 (Analysed for 1 year)** to the Esteemed Institution

Marathwada Shikshan Prasarak Mandal's

**Chhatrapati Shahu Arts, Commerce & Science College**

Lasur Station, Gangapur, Aurangabad – 423702

As part of the Institution's initiatives for a Healthy & Sustainable College the audit was conducted.  
We appreciate the immense efforts taken by Staff and students towards the Energy Management and Conservation.

Issued on **Monday, 14 November 2022** valid till **December 2023**

  
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**Sustainable Academe**

Sustainability Department of Greenvio Solutions, Naigaon

An environment Design and Consultancy developing Healthy and Sustainable Environments

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# ENERGY AUDIT 2021-2022

## RENEWAL AUDIT REPORT

Studied for

**Marathwada Shikshan Prasarak Mandal's  
Chhatrapati Shahu Arts,  
Commerce and Science College**  
Lasur Station, Gangapur, Aurangabad – 423702

Studied in the capacity of  
An accredited & Certified Green Building Professional

Analysed by



**Valid till December 2023**

# Disclaimer

The Audit Team has prepared this report for **Marathwada Shikshan Prasarak Mandal's Chhatrapati Shahu Arts, Commerce & Science College** located at Lasur Station, Gangapur, Aurangabad – 423702 based on input data submitted by the College analysed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National Standards, the report has thereby been generated based on comparative analysis of the existing facilities and the benchmarks. The suggestions derived as a result of the inspection and research as per inputs which would further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase wise or as a whole 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.

The audit is a thorough study based on the inventory and on-site investigation of data collected over a period of time and should not be used for any legal action. This is the property of Greenvio Solutions and should not be copied.

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

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## Acknowledgement

The Audit Assessment Team thanks the **Marathwada Shikshan Prasarak Mandal's Chhatrapati Shahu Arts, Commerce & Science College, Aurangabad** assigning this important work of Energy Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are due to **Hon'ble Shri. Prakashrao Sundarrao Solunke**, President; **Hon'ble Shri. Satish Bhanudasrao Chavan**, Secretary and everyone from the Management.

Our heartfelt thanks to **Hon. Sheshrao Jadhav (Nana)**, Head and **Dr.Sahebrao Dasurao Naikwade Sir**, Principal for the valuable inputs.

We are also thankful to College's Task force the faculty members who have collected data required for green audit **Asst. Prof. Vilas Sanduji Ahire Sir**, Vice Principal; **Dr. Dnyaneshwar Tukaram Holkar**, IQAC Co-ordinator; **Dr. Madhukar Ramchandra Sathe**, Assistant Professor and specially **Asst. Prof. Dipak Sopan Jadhav** for the inventory and data collection.

We highly appreciate the assistance of **Mr. Rudra Jadhav Sir**, Senior Clerk; **Mr. Babasaheb Navnath Shelar Sir**, Accountant and the entire staff for their support while collecting the data.

### **Sustainable Academe**

Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208

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RENEWAL REPORT



## Introduction

### About Marathwada Shikshan Prasarak Mandal

It was established at Aurangabad, the central place of the Marathwada, which was possible due to the dedicated involvement of visionary Late Mr. Vinayakrao Patil. The base of the establishment was and is still the same, to provide knowledge to the poor and ignorant. It is one of the premier Educational Societies (Mandal) in the country including some of the most distinguished and eminent Institutions and providing quality education with best state of the art facility and Infrastructure to the students.

### Vision and Mission Statement of College

**Vision** - To establish ours as a leading College, providing higher education of excellence to rural students with integrity, consistency and strive to achieve overall development of students in terms of professional education, skill enhancement, social responsibility and value added education.

#### Mission

- To contribute in the field of education by providing qualitative value based services to residents of Lasur station and the region.
- To develop students personality and nourish fraternity through extracurricular activities
- To ensure safe sustainable environment that promote learning communication diversity and satisfaction among students' faculty and staff.
- To enhance physical and technological infrastructure to support changes in the learning.
- To provide a platform for the students to confront with the changes of competitive world by utilizing their potential in various field.
- To provide additional facilities which would promote the exploration in areas related to traditional and contemporary fields of study.
- To sensitize students regarding to environmental issues.
- To inculcate self-discipline accountability in the students so as to elevate plane and most responsible and respectable citizen of the society.

## Audit inferences 2021-22

As the College had undergone a renewal for the Academic year 2021-22, a detailed induction meeting along with an interview session was held on Saturday, 12 November 2022 the report has been prepared based on the inputs provided for immediate action for improvement in this subject. The same aspects are listed below.

*Signing of a MoU for improvement w.r.t. to Green Building aspects of premises – The same was suggested before the visit and has been undertaken with immediate action and it has already been implemented.*

### Desktop computers to laptops

Among all equipment it suggested to replace the desktop computers with laptops as this would be energy efficient. A normal desktop computer consumes on an average 250W and it is to be connected all time when it has to be used. On the contrary a laptop consumes 40W and has a battery backup which lasts up to 4 hours. There is **an average 84% reduction** in energy consumption if replaced with energy efficient appliance which is a laptop in all the areas of Educational and Residential areas. This replacement is however is dependent on a variety of factors as follows.

- Some of the senior staff members may be more convenient with computers, replacement with laptop might result in a change of the working patterns and hours which may affect the productivity.
- Laptops – in case are not handled with care such as if dropped unintentionally might result in data imbalance.
- Similarly depending on the pandemic situation in case it might be possible due to irregular usage the device might have issues while functioning.

Thus the University should analyse the above points and then devise a strategy about the replacement, essentially when the devices get damaged or are not in working condition they can surely be replaced. As well as once they are not in working condition the proposed strategy should be linked towards e-waste management as well.

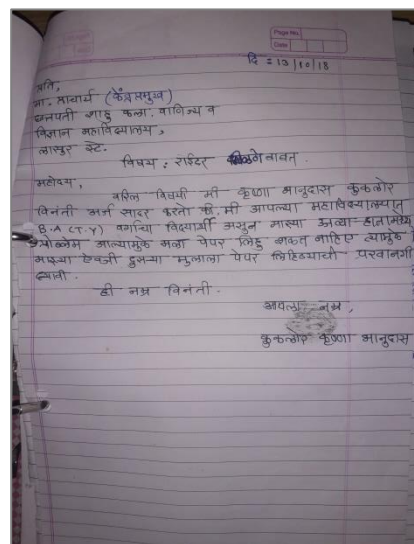
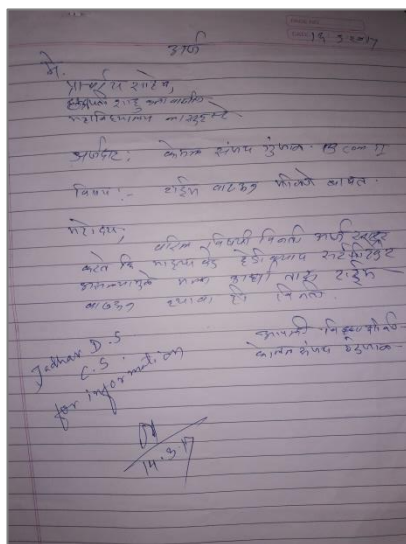
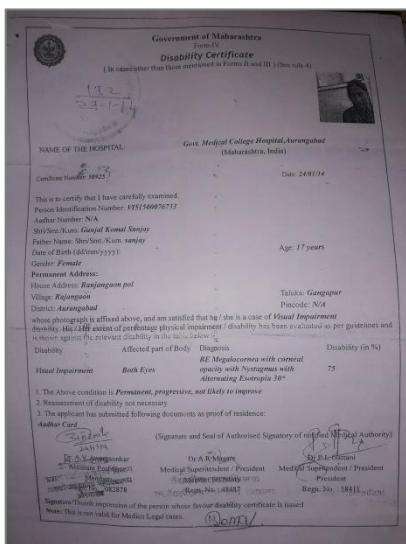
# Site investigation as per the interview session



(Left) Provision for universal toilet; (Right) Compost pit in the premises



Environment and community development initiatives insights



Detail of the scribe facility provided



