

(Renewal) Environment Audit Certificate

GV/RN/ENV/T/06-23/29

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 and 2022-2023 (Analysed for 2 years)** to the Esteemed Institution

Viswambhara Educational Society's

Vaagdevi Pharmacy College

Bollikunta (Village), Khila Warangal (Mandal), Warangal (Dist.) - 506 005, Warangal, Telangana, 506005

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

Issued for data pertaining **June 2021 to May 2023** Issued on **Friday, 30 June 2023** valid till **31 May 2024**

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Principal
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Vaagdevi Pharmacy College

Bollikunta, Warangal-506005 (T.S)

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ENVIRONMENTAL AUDIT

STUDY PERIOD (TWO YEARS) 2021 – 2022 AND 2022 – 2023



Signature

Renewal Audit Report
Sustainability study

Studied for
Vaagdevi Pharmacy College
Viswambhara Educational Society's
Bollikunta (Village), Khila Warangal (Mandal),
Warangal (Dist.) - 506 005, Warangal, Telangana, 506005

Studied in the capacity of
Accredited and Certified
Green Building Professional



Studied by
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Valid till 31 May 2024

Background reference image: Nlic...

Disclaimer

The Audit Team has prepared this report for the **Viswambhara Educational Society's Vaagdevi Pharmacy College** located at Bollikunta (Village), Khila Warangal (Mandal), Warangal (Dist.) - 506 005, Warangal, Telangana, 506005 based on input data submitted by the Institute 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 and International Standards; the report has been generated based on a 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.

These can be implemented phase-wise or as a whole depending on the decision taken by the Hon'ble Management and Institute. The warranty or undertaking, expressed 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 inspection and investigation of data collected over a while and should not be used for any legal action. This is the property of Greenvio Solutions and should not be copied or regenerated in any form.

The Report is prepared by the Team of Greenvio Solutions under their brand and department – Sustainable Academe as Consultancy firm with the Project Head - Ar. Nahida Shaikh who is an Accredited and Certified Green Building Professional. Green Building consultancy is her forte and she is one of the most sought-after names when it comes to providing excellent quality services within the stipulated time frame.

The Study is conducted incapacity of an Accredited & Certified Green Building Professional with extensive experience.

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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Acknowledgment

The Audit Assessment Team thanks the **Viswambhara Educational Society's Vaagdevi Pharmacy College, Telangana** for assigning this important work of Environment Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are extended are due to **everyone from the Management and the Head of the Institute.**

We are also thankful for **Institute Taskforce.**

We highly appreciate the assistance of the **entire Teaching, Non-teaching, and Admin staff** for their support while collecting the data.

Sustainable Academe

Brand of Greenvio Solutions, Palghar District, Maharashtra- 401208




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1. Introduction

1.1 About the Institute

Vaagdevi Pharmacy College is the first Pharmacy College to be started in the Warangal region under JNTU, Hyderabad.

It is one of the pioneered institutions in the region of Telangana to provide a good pharmacy education and to meet the needs of the present-day healthcare system where a pharmacist has to play important role in society. To impart the professional course effectively, the institution is located in a peaceful locality away from a busy, noisy, and pollution-free atmosphere.

The premises are well equipped with a wide range of facilities that make life in academia comfortable and fulfilling. The academic life is vibrant and engaging.

1.2 About the Mission Statement of the Institute

The College seeks to realize its Vision with a Mission to ***"To leverage the society reputation by an image composing of unique destination for standing out learning processes, success in profession and endow with a foundation towards research and development activities."***

1.3 About the timeline of activities for research

As the Institute had undergone a renewal for the Academic year 2021-2022 and 2022-2023, data collection processes for verification purposes were asked to be submitted.

- ⇒ Allotment and Initiation by the Institute
- ⇒ Process discussion with team
- ⇒ Submission of the files



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2. Compliance

The compliance study was carried out through investigative ways. This was done to understand the **extent of suggestions and their implementations based on previous report of Academic years 2019-2020 and 2020-2021.**

The details of the suggestions are based on the Original Report as in 2021 is further documented below. It is based on the data collection process.

S. No.	Recommendation Title	Compliance Status
1.	Adaptive reuse of existing spaces through design intervention	Partially implemented
2.	Facility management systems and controls	Not implemented

Table 1: Details of the compliance study



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3. Observations

Investigative suggestions

The following suggestions are to be considered as a ***first priority*** for implementation. These **should be executed within the next 1.5 to 2.5 years from the date of the Report submission.** The Institute can execute a plan after discussion with Project Head.

The following observations have been documented for site up gradation purposes. Though features such as follows impart positive features of the premises.

- ⇒ ***State of the art infrastructure*** for the entire premises.

Certain aspects noted below in red font should be upgraded as per the convenience of the Institute; these are common to the site and can be considered for entire premises wherever there are similar areas.

- ⇒ **Extra care for the rooftop areas**

- Introduce the signboards about 'No students are allowed to enter this area'
- Increase the height of parapet walls
- Upgrade the space as cool roof by painting it with cooltop material.
- Undertake feasibility study of before and after temperature reading.
- Take precautions to keep terrace areas free of any kind of storage materials

- ⇒ **Messages on the beam area**

Include quotes and messages from eminent personalities all over the premises on beam for inspiration and beautification.

- ⇒ **General aspects (Outdoor areas)**

- Placards and manuals for awareness
- Dedicated reserved parking for physically disabled
- Introduce information boards everywhere
- Increase sensitization programmes
- Upgrade the website w.r.t. green initiatives



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4. Inferences

The following suggestions are to be considered as a ***first priority*** for implementation. These should be executed within the next 1.5 to 2.5 years from the date of the Report submission. The Institute can execute a plan after discussion with Project Head.

5.1 Universally accessible premises

- **Universal Toilet** - There should be a minimum of 1 toilet in every block for the specially-abled people as per guidelines of National Building Code 2016.
- **Provisions for visually impaired - Signages** – In addition to the signages being in regular language there should be additional signages in braille language for the specially-abled students.
- **Provisions for visually impaired - Tactile flooring** – The indoor and outdoor of the premises should have dedicated tactile flooring for the visually impaired.

5.2 Heat island reduction

- **Cool rooftops** - The Terrace rooftops should be painted with Cooltop – reflective materials to reflect the harsh sun rays and reduce the heat absorption in the top most floor and surrounding areas of the building.

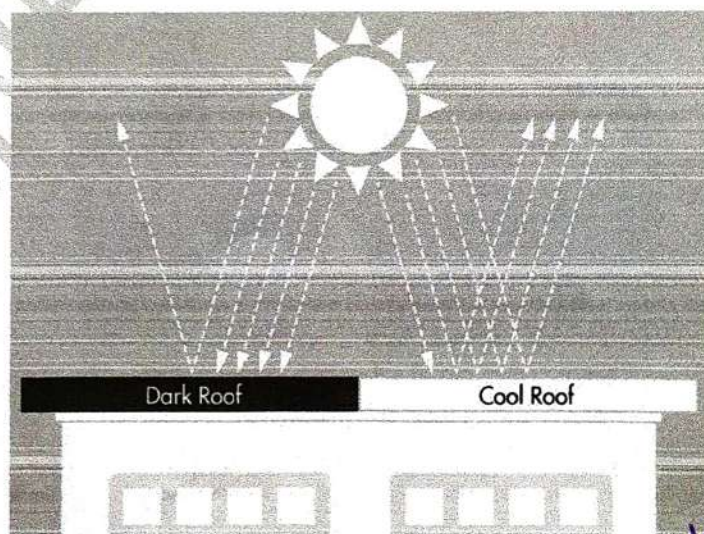


Plate 1: Cool roof comparative analysis (For reference purpose only)

Source: Image by <https://www.gaf.com/en-us/blog/six-truths-about-cool-roofs-281474980105387>



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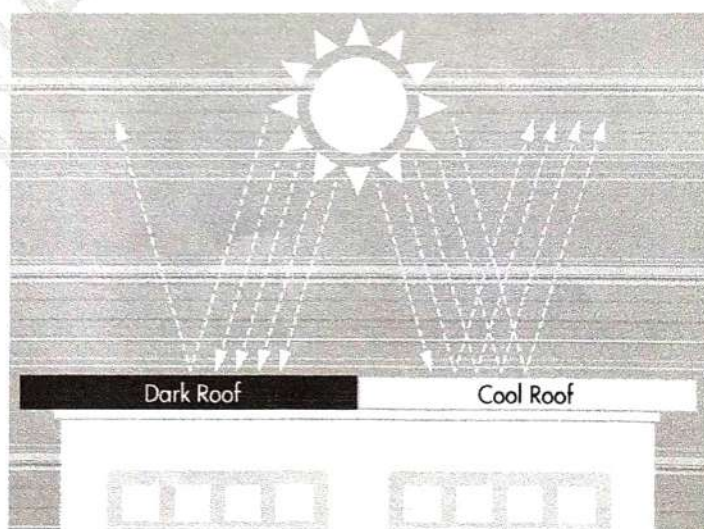


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5.3 Life safety

- ⇒ **Mandate fire extinguisher in spaces** - One fire extinguisher should mandatorily be there in every space which has an air conditioner/ gas cylinder.


- ⇒ **Combustible equipment** - Every space which has a gas cylinder or combustible equipment should have a provision for the barricade around the gas cylinders, appropriate safety board's mentioning 'danger sign' and 'Do not touch' with an additional small fire extinguisher close by.

5.4 Pollution Control

- ⇒ **Specific area designated for E-vehicles** – There should be designated area dedicated to E-vehicles parking and charging and this zone should be demarcated as 'Eco-Zone'

- ⇒ **Bicycles as a gift** - As an appreciation gesture maybe the student's toppers/ staff best performers can be awarded a bicycle occasionally.




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5. Compilation

The study is based on the data collected, analysed, rechecked, and confirmed through multiple modes. For the quality study, some standards/ notes have been referred to. These are listed and noted below. However, no direct references have been used anywhere. These are used as a base to analyse and study the data collected.

- ⇒ Uniform Plumbing Code – India, 2008
- ⇒ IGBC Green Existing Buildings – Operation & Maintenance (O&M) Rating system, Pilot version, Abridged Reference Guide, April 2013
- ⇒ IGBC Green Landscape Rating system, March 2013
- ⇒ BOMA Canada Waste Auditing Guide, Best Environmental Standards, BOMA BEST – Canada
- ⇒ Used only for understanding Universal design - Universal Accessibility Guidelines for Pedestrian, Non-motorized vehicle and Public Transport Infrastructure – Report guidelines by Samarthyam (National center for Accessible Environments) – an initiative supported by Shakti Sustainable Energy Foundation and www.umassd.edu
- ⇒ The city of Cheyenne, Streetscape/ Urban Design elements - Wyoming Planning Association, Gillette, Wyoming, United States



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