

# GREEN AUDIT

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

Sustainability study

## AUDIT REPORT

Studied for

Maulana Azad Education Society's

**Marathwada College of Education**

Dr. Rafiq Zakaria Campus, Dr. Rafiq Zakaria Marg,

Post Box No. 117, Harsul Road, Rauza Baugh,

Aurangabad – 431001 (MS), India



Studied by

**Greenvia**  
Solutions

## Disclaimer

The Audit Team has prepared this report for the **Maulana Azad Education Society's Marathwada College of Education** located at Dr. Rafiq Zakaria Campus, Dr. Rafiq Zakaria Marg, Post Box No. 117, Harsul Road, Rauza Baugh, Aurangabad – 431001 (MS), India 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 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 internal team. 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.

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**Ar. Nafida Abdulla**

**Greenvio Solutions**

*Developing Healthy and Sustainable Environments*

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## Acknowledgement

The Audit Assessment Team thanks the **Maulana Azad Education Society's Marathwada College of Education, Maharashtra** for assigning this important work of Green Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks are due to **everyone from the Management.**

Our heartfelt thanks to the Chairperson of the entire process **Prof. Naveed Us Sahar,** Principal for the valuable inputs.

We are also thankful to **College's Task force the faculty members** who have collected data required and special mention to **Ms. Zeenat Khan (Faculty Member).**

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 Institution

### 1.1.1 Vision

*"Marathwada college of Education has always strived to be the Centre of Excellence by providing world classs 'Teacher Education' to students from all sections of the socitey."*

### 1.1.2 Mission

*"Marathwada College of Education envisages to impart quality training with commitment to excellence. The college endorses to impart value added education with efficient and competent man power, excellent infrastructure and innovation in teacher training and research programmes in order to generate globally competitive and skilled teachers, researchers and torough prfessionsl."*

### 1.1.3 Objectives

The objective of the Institute are:

- *To train and develop integrated and effective teachers with the highest level of excellence.*
- *To organize advanced studies and promote research in educaiton.*
- *To provide sultural, secular and ethical values and faster in student the spirit of Nationa integration.*
- *To achieve the object of secularism by promoting literacy and wisdom among studnt to carry out social services through extensive activities and hence pave the way for self empowerment and develop dignity of labour.*
- *To inculcate innovation and research aptitude amont prospective teachers and brig them into the new realm of education technology.*

## 1.2 Assessment of the Institute

### 1.2.1 Affiliation

The College is affiliated with the **Dr. Babasaheb Ambedkar Marathwada University**, a public university in Aurangabad, Maharashtra.

### 1.2.2 Certification

- **All India Survey of Higher Education** (AISHE) code is C-34619.
- National Council for Teacher Education, New Delhi

### 1.2.3 Recognitions

The courses provided by the Institute received recognition by the **section 2(f) and 12 (B) of the University Grants Council Act, 1956.**

## 2. Overview

### 2.1 Summarised Populace analysis

#### 2.1.1 Research study for 2022-2023

##### Students data

The data (shared by the Institute) shows there were **591 students**.

##### Staff data

| S. No.                     | Type               | Male      | Female    | Total     |
|----------------------------|--------------------|-----------|-----------|-----------|
| 1                          | Admin staff        | 05        | 00        | 05        |
| 2                          | Teaching staff     | 10        | 08        | 18        |
| 3                          | Non-Teaching staff | 08        | 01        | 09        |
| <b>Total Staff Members</b> |                    | <b>23</b> | <b>09</b> | <b>32</b> |

*Table 1: Staff data of the Institution for 2022-2023*

The staff data shows the College premises had **32 Staff Members**.

#### 2.1.2 Research study for 2021-2022

##### Students data

The data (shared by the Institute) shows there were **593 students**.

##### Staff data

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| <b>Total Staff Members</b> |                    | <b>23</b> | <b>09</b> | <b>32</b> |

*Table 2: Staff data of the Institution for 2021-2022*

The staff data shows the College premises had **32 Staff Members**.

## 3. Research

### 3.1 About the Green Building Study Audit

It is a systematic study of the aspects which make the Institution sustainable and healthy premises for its inhabitants.

### 3.2 Analysis of the Green Building Study Audit

The procedure included detailed verification as follows:

- ➔ Investigation
- ➔ Technical
- ➔ Observations
- ➔ Inferences

### 3.3 Strategy adopted for Green Building Study Audit

The strategies included data collection from the admin department, actual inventory, investigation to check the operation and maintenance, analysis of the data collection, and preparation of the Report.

## 4. Investigation



*Plate 1: Induction and exit meeting with the team*

## 5. Documentation

### 5.1 Water study (Tank)

**Observation:** The overhead water tanks are not maintained well.

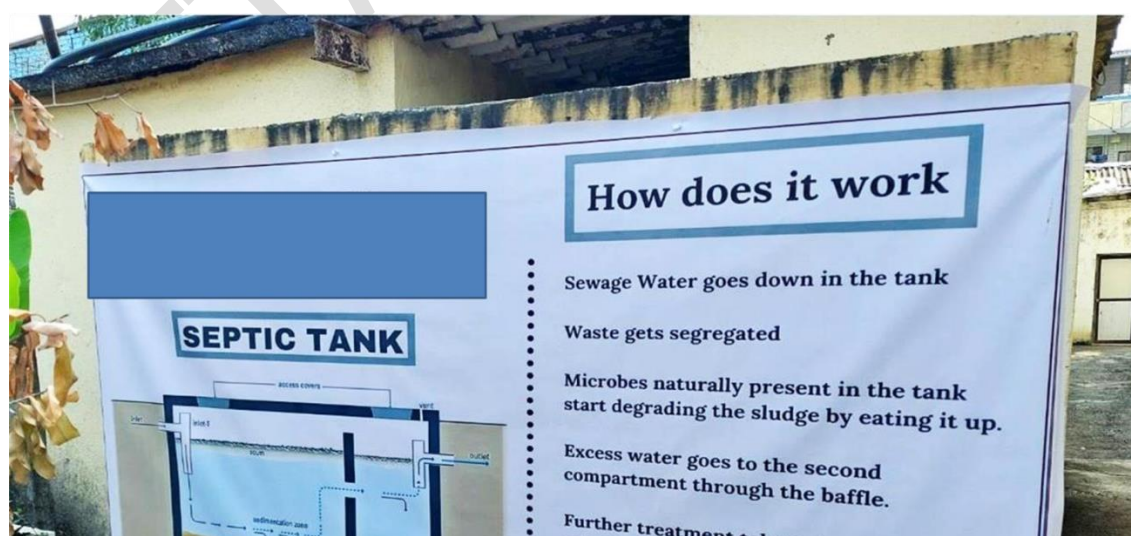
**Inference:** The study suggests that the tanks should have the following information mentioned on them either through paint or a display board:

- ➔ **Size** – Diameter/ L X B X H;
- ➔ **Capacity** – In Litres;
- ➔ **Usage** – Primary (Drinking)/ Secondary (Washing, Toilets, Washbasins and other)/ Tertiary (Water harvesting)
- ➔ **Last maintenance and cleaning date** with Certificates if any; **Institute name**
- ➔ Colour code the pipe and water tank **Rain water (Light blue), Drinking water (Dark blue), Sewage/ Secondary water (Grey), Fire water (Red)**

### 5.2 Water study (Borewell)

**Observation:** There are 2 wells, 2 bore wells and 3 tube wells, one rain water harvesting tank and one pit is available in premises.

**Inference:** The study suggests that a manual about the functioning should be displayed (Refer image below)



Reference suggestions 1: Manual example

### 5.3 Dustbins and waste management

**Observation:** Only dustbins are available for waste management.

**Inference:** *The study suggests that:*

- **Single DRY WASTE dustbin** should be available inside the classroom, other spaces
- **MULTI-COLORED dustbins** for paper, glass, water in the corridor areas
- **E-WASTE and PLASTIC WASTE zone** to practice a dedicated 'collection drive' quantify and then either recycle or handover the same to certain vendors
- **A small compost bin** (check image below) can be purchased and composting can be carried out through small quantities for a start given the space constraints



*Reference suggestions 2: Composting practice (Source - Trustbin)*

## 5.4 Awareness events

The Institute conducts many programme for stakeholder awareness which is a good practice.

| S. No.                 | Initiative                                                                                                          | Particulars                                                                                                                                                                                                                                                                              | Type              | Date            |
|------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|
| <b>Academic year 1</b> |                                                                                                                     |                                                                                                                                                                                                                                                                                          |                   |                 |
| <b>1</b>               | Reducing carbon Foot prints                                                                                         | 1) To reduce carbon footprints.<br>2) To Create Awareness among students how to contribute individually to reduce footprints.<br>3) To save fuel.<br>4) To conserve energy.<br>5) To reduce pollution.<br>6) To improve physical health.                                                 | -                 | -               |
| <b>Academic year 2</b> |                                                                                                                     |                                                                                                                                                                                                                                                                                          |                   |                 |
| <b>2</b>               | Field visit                                                                                                         | 1) To show working of rain water harvesting system in college.<br>2) To make pupil aware about preservation and conservation of flora and fauna of campus<br>3) To show composting of solid waste management system of campus<br>4) To acquaint pupil with RO water Filtration mechanism | Field Visit       | 5 December 2022 |
| <b>3</b>               | Campus visit on theme - Technology and its adverse effect on Human being"                                           | To Create Awareness among students how to contribute individually to contribute in sustainable development.<br>To conserve energy.<br>To reduce pollution.<br>To improve physical health.                                                                                                | Physical activity | 6 December 2022 |
| <b>4</b>               | Poster competition on theme on "Technology and its adverse Impact on Environment and Human health" by Go Green club | To provide helping hands in conservation and protection of environment. Under this theme we make our students to prepare the posters and exhibit .                                                                                                                                       | Physical activity | 6 June 2022     |

**Table 3: Details of the environmental awareness programs**

Lokmat Times

# Environmental awareness prog held in MCE

LOKMAT NEWS NETWORK  
AURANGABAD, DEC 2

Marathwada College of Education (MCE) organised an environmental awareness programme 'Go Green Club' for B Ed second year students on Saturday under the banner of 'Azadi Ka Amrut Mahotsav'.

Dr Mirza Mahfooz Baig delivered a lecture on 'Avoid the use of

Single-use Plastic.' He provided analytical guidance to the students on controlling environmental pollution. Incharge Principal Dr Naveed Us Saher presided over the programme.

The students cleaned the premises in front of the college under the cleanliness campaign and presented posters on environmental conservation, ways to pre-



Marathwada College of Education (MCE) organised Go Green Club programme under the banner of Azadi Ka Amrut Mahotsav on Saturday. Students along with teachers on completion of cleanliness drive on the campus.

vent water pollution and soil pollution, solid waste management, sustainability and technology, reducing carbon emissions.

Tree planting was also done on the college premises. Coordinator of 'Go Green Club' Dr Khan Zeenat Muzaffar, all the teaching and non-teaching staff members of MCE worked hard to make the event successful.

Aurangabad First  
Page No. 2 Dec 03, 2021  
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## مراٹھواڑہ کالج آف ایجوکیشن میں ماحولیاتی بیداری سے متعلق پروگراموں کا انعقاد



اورنگ آباد: مراٹھواڑہ کالج آف ایجوکیشن، ڈاکٹر رفیق زکریا کیپس روضہ باغ اورنگ آباد کے "گو گرین کلب" کی جانب سے بی۔ ایڈ سال دوم کے طلباء میں ماحول سے متعلق بیداری پیدا کرنے کے لئے عملی پروگراموں کا انعقاد کیا گیا تھا۔ "Avoid use of single \_ use plastic" اس موضوع پر ڈاکٹر مرزا محفوظ بیگ کے لیچر کے ذریعے اس پروگرام کا آغاز ہوا۔ ماحول کو آلودگی سے تحفظ فراہم کرنے کے لئے طلباء کو موثر طور پر رہنمائی و صلاح کاری کی گئی۔ اس پروگرام کی صدارت انچارج پرنسپل ڈاکٹر نوید السحر نے کی۔ ماحول کو آلودگی سے پاک کرنے کے لئے عملی اقدامات کے طور پر طلباء نے کالج کی دونوں عمارتوں کے اطراف کے احاطے کو صاف کیا۔ ماحول کا تحفظ، ماحول کے متعلق بیداری، پلاسٹک کا استعمال کے ماحول پر مضراثرات، ہوا کی آلودگی، آبی آلودگی و زمینی آلودگی کو روکنے کے لئے احتیاطی تدابیر و عملی اقدامات پر منحصر پوسٹر طلباء نے پیش کئے۔ اس موقع پر کالج کے احاطے میں شجرکاری بھی کی گئی۔ یہ پروگرام دراصل "آزادی کے امرت کا مہو تسو" کے ضمن میں گو گرین کلب کی روح رواں ڈاکٹر خان زینت مظفر کی زیر نگرانی میں منعقد کیا گیا تھا۔ اس پروگرام کو کامیابی سے ہمکنار کرنے کے لئے مراٹھواڑہ کالج آف ایجوکیشن کے تدریسی و غیر تدریسی عملے نے خوب محنت کی۔

Plate 2: Details about the newspaper article

## 6. 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 Samartham (National centre for Accessible Environments) – an initiative supported by Shakti Sustainable Energy Foundation.

