

GREEN AUDIT

STUDY PERIOD (ONE YEAR) 2024 - 2025

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 in the capacity of

Accredited and Certified
Green Building Professional



Studied by

Email: greenenviosolutions@gmail.com

Disclaimer

The study has been prepared for **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 in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

It is a thorough study based on the inspection and investigation of data collected over a period of time and should not be used for any legal action. This should not be copied or regenerated in any form.

Ar. Nahida Abdul
Greenvio Solutions



Acknowledgement

Appreciation extended to **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 extended are due to everyone from the Management.

We are also thankful to Institute's Task force who have played a major role in data collection.

CONFIDENTIAL

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1. Introduction

1.1 About the Institution

1.1.1 Vision

The Institute strives "To be the Centre of Excellence by providing world class 'Teacher Education' to students from all sections of the society."

1.1.2 Mission

The Institute's adheres:

- Envisages to impart quality training with commitment to excellence.
- Endorses to impart value added education with efficient and competent manpower, excellent infrastructure and innovation in teacher training and research programmes in order to generate globally competitive and skilled teachers, researchers and thorough professionals.

2. Overview

2.1 Summarised Populace analysis for 2024-25

2.1.1 Students data

The data (shared by Institute) shows there were 161 male; 333 female.
Thus 494 students.

2.1.2 Staff data

Sl. No.	Particulars	Male	Female	Total
1	Admin staff	5	0	5
2	Teaching staff	10	8	18
3	Non-Teaching staff	8	1	9
Total		23	09	32

Table 1: Staff data of the Institution

Above data documents 32 staff members.

Thus, total populace stands at 526 nos.

3. Observation

1 | Page

Evidence documents for Site visit of external audit team

Audit team headed by external expert - Ar. Nahida Abdulla
Accredited & Certified Green Building Professional, ISO IA (IMS)
Audit objective: Green Building up gradation of the premises

Audits covered: ☒ Green audit ☐ Energy audit ☐ Environment audit

Institute: Marathwada College of Education Date: 17-05-202
CSN

Document objective: Inferences of the Site visit

Observations (Positive aspects)	Suggestions (Improvement aspects)
Green Audit	
- Documentation of water facilities with maintenance information	- Dedicate following zones with documentation - Orange zone
Energy Audit	
- 20 Nos. of solar panels available on rooftop of building & maintained - Fire safety measures undertaken.	- Dedicate following zones with documentation - Green Energy zone - Danger zone
Environment Audit	
- Environmental study reflects good atmosphere - Flora is available in sufficient nos.	- Dedicate following zones with documentation - Green zone - Rooftop zone

Signature & round seal
Name:
Designation:
Institute

Signature & round seal
Name: Mrs. Shalini
Designation: Project Coordinator
For The Greenvio Solutions

Plate 1: Evidence files related to inferences

4. Investigation

The following results were carried out during visit on **17 May 2025.**

S. No.	Block	Filter/ Water cooler specific location if any	Actual level (ppm)	Required level (ppm)	Inference
1.	Building 1	Terrace RO Plant	196	Usually 50 In certain cases where water is hard 100-120 can be considered	Requires maintenance
2.	Building 2	Main water source	135		

Table 2: Drinking water testing details

5. Documentation

5.1 Green Practices Audit

5.1.1 Green practices

Innumerable activities undertaken.

S. No.	Program	Particulars	Date
1	Plant for Mother (Eik Ped maa ke Naam)	To involve pupil in Afforestation	16-08-2024
		To bring awareness about importance of Tree Plantation	
		To make earth pollution free.	
		To Prevent global warming.	
		To Aware pupil about the sustenance and Maintenance of Environment	
		To sensitize pupil about the maintenance of ecological balance.	
2	Sustainable Shopping Habits	To Avoid use of Plastic	16-08-2024
		To prevent soil pollution and plastic pollution	
		To make earth free from plastic	
3	Trash to Treasure	To recycle the waste material	13-01-2025
		To Resue the waste material	
		To make useful thing from waste material	
		To protect soil fertility	
4	Water conservation	To Conserve water	16-01-2025
		To save water	
		To Resue water through rain Harvesting	
		To use water economically in our day today life	
5	Composting	To Impart knowledege to puipil teachers to prepare a compost pit at home	17-08-2024
		To use waste dry leaves in a fruiotful way to prepare compost	
		To prevent soil pollution	
		to keep surrounding clean	
		To sensitize people to maintain Ecological Balance	
6	Bird feeder Installation	To bring awareness among pupil teachers to sustain bird environment	10-08-2024

Table 3: Environment related activities undertaken by Institute

5.2 Waste Audit

5.2.1 Waste management (Parameters adopted)

The following practices are common to entire campus.

S. No.	Type	Management
1	Solid waste (Toilets)	Connected to building storm water drain
2	Organic waste (Regular)	Compost pit available
3	Liquid waste (Toilets, wash basins)	17 toilets and 5 wash basins
4	Chemical waste from laboratories	Not applicable as not generated
5	Toxic waste from laboratories	
6	E-waste	Quotation called and handed over to the firm.
7	Paper waste	
8	Plastic waste	Manage by college staff self
9	Bio-waste (Sanitary)	Manage by college staff self
10	Medical waste (Pharmacy etc.)	Manage by college staff self
11	Construction waste and reuse (Only if applicable)	Manage by college staff self

Table 4: Waste management practices



Plate 2: Compost pit areas

Date: 25.03.2025

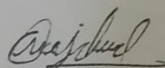
PURCHASE CERTIFICATE

We, M/s. Rajmudra Trading, hereby certify that we have purchased E-Waste scrap from The Marathwada College of Education, Aurangabad, Maharashtra. We are authorized by the Maharashtra Pollution Control Board, under consent number: Format1.0/RO(BMW)/UAN No. MPCB CONSENT-0000187933/CO/2402000544, which is valid until January 31, 2029. The details of the purchased E-Waste scrap are as follows:

SR No	Particulars	Quantity
1	E-Waste Scrap	465 KG

Hence certified.

Authorized Signatory



For Rajmudra Trading



Gut No: 55, Plot No: 18, Shajapur MIDC Waluj, Aurangabad - 9023215785

Plate 3: E-waste management practices

5.3 Water Audit

5.3.1 Water availability and consumption

NOTE- The Institute is located in a building that has shared facilities with multiple sister Institutes.

However, the following facilities are adhered by the Institute.

S. No.	Type	Capacity (litres)	Nos.	Total capacity
1	Underground	25,000	1	25,000
2	Overhead	1,000	4	4,000
3	Fire tank		4	0
4	RO Plant	500x1 and 300x1	2	

Table 5: Water management practices



Plate 4: Water management aspects in the premises

5.3.2 Water proportion study

- ➔ As per the Chapter 2 of the Report, total footfalls in premises were **526 nos.**
- ➔ Taking entire requirement into consideration **7,06,813 litres is the total water requirement** (Average assuming certain nos. for primary and secondary purposes)
- ➔ Bifurcating this study further we can assume **28,273 litres** for drinking and primary purposes ONLY.
- ➔ No deficiency or water shortage was observed or informed.



Plate 5: Overhead water tank - one



Plate 6: Overhead water tank - one

5.4 Health and Hygiene Audit

No odours issue was observed. Awareness posters are available.



Plate 7: Common Health Centre in the premises

6. Compliance

The compliance study was carried out through investigative ways. This was done to understand extent of implementations based on previous reports.

- ➔ Original report study was for 2021-22 and 2022-23
- ➔ Renewal study currently done is one academic year starting June 2024







6.1 Compliance status in form of Action taken report





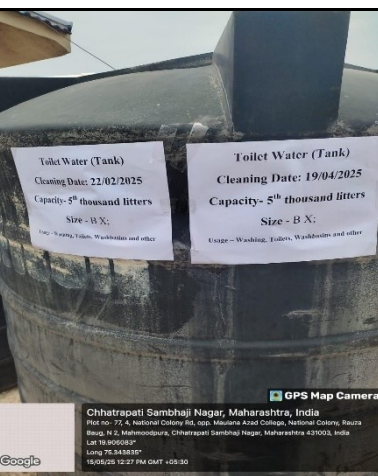
The inputs are noted next page onwards.

ACTION TAKEN REPORT

(Green/ Energy/ Environment) AUDIT

S. No.	Recommendation	Page nos. of Report	Action taken (Implemented/ Under process/ Steps to be taken)	Evidence (Geo tag photo or other)
1.	Use of LED Lights	Energy Audit-Pg.no .08	WE have installed LED lights in all the classrooms, staff rooms, office, Library etc. The photos are attached	
2.	Electronic waste	Environment-al audit	We have installed the electronic waste box in the Internship school	
3.	Water Conservation		Students daily upload saving of water on YEWS APP	
4.	Use of Separate Dustbins	Environment Audit Pg no.09	We have put dustbins of plastic and dry garbage separately in corridors	

5.	No vehicle Zone	Environment Audit pg.no 15	The notices are released from time to time to notify the students not to park the vehicles in 'No Vehicle zone'	
6	Bird feeder Installation	Green audit	The campus is made ecofriendly for different birds found in the campus	
7.	Fire Zone	pg.no. 14	Fire zone banners related with fire safety and precaution was hanged at building entrance area	
8.	Composting	pg.no. 09	The students were taught to use dried leaves of campus trees and use it for composting purpose	
9.	Workshop on Sustainable Shopping Habit	Environmental Audit	The students were asked to prepare cloth bags for shopping of vegetables, avoiding the use of plastic bags	
10.	Trash to treasure	Environmental audit pg.no 09	The waste materials were used for making the useful products, and students were involved in it.	

11	Water Conservation	pg.no.08	The students were asked to download YEWS APP of Maharashtra Govt. and upload daily the savings of water on it.	 <p>Chhatrapati Sambhaji Nagar, Maharashtra, India N12-8-27-43, Rausa Baug, N.2, Cidco, Chhatrapati Sambhaji Nagar, Maharashtra 431003, India Lat 19.906678° Long 75.344133° 17/01/2025 01:21 PM GMT +05:30</p>
12	Plant 4 Mother	Green Audit	The student were asked to plant one Tree and save the Mother Land	 <p>Chhatrapati Sambhajnagar (Aurangabad), Maharashtra, India N12-8-27-43, Rausa Baug, N.2, Cidco, Chhatrapati Sambhajnagar (Aurangabad), Maharashtra 431003, India Lat 19.906678° Long 75.344133° 16/01/24 12:28 PM GMT +05:30</p>
13	Medicinal Plantation	Environmental audit ,pg.no 08	The plantation of trees was done For sustaining and maintaining Eco Friendly environment	 <p>Aurangabad, Maharashtra, India V8Q9+8MM, Navkhanda, Aurangabad, Maharashtra 431001, India Lat 19.888189° Long 75.319801° 10/09/24 12:18 PM GMT +05:30</p>
14	Cleaning of Water tank	Pg.no.08	The details of Water capacity, The Water tank was cleaning date was mentioned on water tank	 <p>Chhatrapati Sambhaji Nagar, Maharashtra, India Plot No- 75.4, National Colony Rd, opp. Maulana Azad College, National Colony, Rausa Baug, N.2, Maharashtra, Chhatrapati Sambhaji Nagar, Maharashtra 431003, India Lat 19.906678° Long 75.344133° 16/01/25 12:23 PM GMT +05:30</p>
				 <p>Chhatrapati Sambhaji Nagar, Maharashtra, India Plot No- 75.4, National Colony Rd, opp. Maulana Azad College, National Colony, Rausa Baug, N.2, Maharashtra, Chhatrapati Sambhaji Nagar, Maharashtra 431003, India Lat 19.906678° Long 75.344133° 16/01/25 12:27 PM GMT +05:30</p>

7. Suggestion

The suggestion (inference) would act as a 'PLAN OF ACTION' to implement all the suggestions in a detailed manner.

- ➔ Conduct the 'Before' and 'After' study with photos
- ➔ Document the same in 'Action taken report'

S. No.	Aspect with evidence if any	Suggestion																														
1.	Green practices <u>Aspect area:</u> Programs	Undertake webinar/ seminar/ activity on important environment days: <table border="1"> <thead> <tr> <th>Date</th><th>Month</th><th>Known as</th></tr> </thead> <tbody> <tr> <td>2</td><td>February</td><td>World Wetland Day</td></tr> <tr> <td>8</td><td>March</td><td>International Women's Day</td></tr> <tr> <td>22</td><td>March</td><td>World Water Day</td></tr> <tr> <td>22</td><td>April</td><td>World Earth Day</td></tr> <tr> <td>22</td><td>May</td><td>The International Day for Biological Diversity</td></tr> <tr> <td>5</td><td>June</td><td>World Environment Day</td></tr> <tr> <td>16</td><td>September</td><td>World Ozone Day</td></tr> <tr> <td>3</td><td>October</td><td>International E-Waste Day</td></tr> <tr> <td>3</td><td>December</td><td>International Day of Persons with Disabilities</td></tr> </tbody> </table>	Date	Month	Known as	2	February	World Wetland Day	8	March	International Women's Day	22	March	World Water Day	22	April	World Earth Day	22	May	The International Day for Biological Diversity	5	June	World Environment Day	16	September	World Ozone Day	3	October	International E-Waste Day	3	December	International Day of Persons with Disabilities
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3	December	International Day of Persons with Disabilities																														
2.	Water aspect <u>Aspect area:</u> Pits	Introduce the following information as a display board: <ul style="list-style-type: none"> ➔ Number of the pit ➔ Type of rain water harvesting methodology ➔ Capacity ➔ Last maintenance date 																														
3.	Water aspect <u>Aspect area:</u> Display board	<ul style="list-style-type: none"> ➔ Wherever taps supply regular/ non-potable water introduce a board stating 'Not suitable for drinking' ➔ Similarly, introduce 'Drinking water don't wash here' board on or above every drinking water cooler/ filter 																														
4.	Waste aspect <u>Aspect area:</u> Orange zone	Introduce 'Orange zone' as 'Nearly zero plastic usage areas'																														
5.	Health & Hygiene aspect <u>Aspect area:</u> Display board about	Introduce a display board about emergency numbers on every floor of every building near staircase information about: 'Fire station, Police station, Board no. Director office, Dean office, admin manager,																														

	emergency contacts	security main gate, security parking, repair and maintenance'
6.	Health & Hygiene aspect <u>Aspect area:</u> Zone demarcation through signages	<p>Introduce zone boards (Optional through mention of state/ central govt. acts) at entrance of the premises in an enlarged A1 poster</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;"><i>Sample images for zones</i></p> <p>Image source: Compliance signs</p>
7.	Health & Hygiene aspect <u>Aspect area:</u> Hygiene for mats	Introduce a green mat below water coolers for hygiene

Table 6: Observation based suggestion study of the campus

8. Compilation

The study is based on the data collected, analyzed, 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 analyze and study the data collected.

- ➔ IGBC Green Existing Buildings – Operation & Maintenance (O&M) Rating system, Pilot version, Abridged Reference Guide, April 2013
- ➔ IGBC Green Landscape Rating system, March 2013

