

ENVIRONMENT AUDIT

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

Sustainability study RENEWAL AUDIT REPORT

Studied for
Mogaveera Vyavasthapaka Mandali's
Colleges of Commerce & Science

MVM Educational Campus Marg,
Off. Veera Desai Road, Andheri (West), Mumbai – 400058

Studied in the capacity of

Accredited and Certified
Green Building Professional



Website: <https://thegreenviosolutions.co.in/>

Email: greenviosolutions@gmail.com

Valid till April 2024

Inferences of the Site visit

Audit conducted by : Nahida Shaikh, IGBC AP, GEM CP, Architect
Accredited and Certified Green Building Professional
ASSOCHAM GEM Certified Professional Registration number 22/718

Link for the Verification website https://www.green-assoc.com/members/gem_cp.php?username=12

M V MANDALI'S COLLEGES OF

Institute: COMMERCE & SCIENCE Date: 12/04/2023

Audits covered: Green, Energy & Environment Day: Wednesday

Observations	Inferences
<ul style="list-style-type: none">- Fire Mock drill conducted- Extensive Fire Audit/aspect related activities undertaken- Dust collection problem resolved as per instructions- Energy (solar panels) under process	<ul style="list-style-type: none">- Increase nos. of plants.- Increase nos. of energy efficient appliances- Improve waste & water management

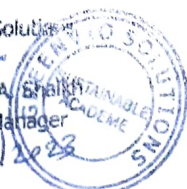
Evidence of the site visit



College Name: M V Mandali's Colleges of
Signature: Commerce & Science
Name: Dr. Seema Rawat
Designation: Vice Principal
Date: 12/4/2023



For Greenvio Solution
Signature: [Signature]
Name: Mrs F. A. Shaikh
Designation: Manager
Date: 12/4/2023



Disclaimer

The Audit Team has prepared this report for the **Mogaveera Vyavasthapaka Mandali's Colleges of Commerce & Science** located at MVM Educational Campus Marg, Off. Veera Desai Road, Andheri (West), Mumbai – 400058 based on input data submitted by the College and analyzed 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 College. 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 in capacity 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

Palghar District, Maharashtra- 401208

sustainableacademe@gmail.com

Acknowledgment

The Audit Assessment Team thanks the **Mogaveera Vyavasthapaka Mandali's Colleges of Commerce & Science** for assigning this important work of Environment Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks to all the Managing Committee members of the Mogaveera Vyavasthapaka Mandali, Mumbai for selecting us to do the Environment Audit.

Our heartfelt thanks to the Chairperson of the entire process **Dr. Gopal Kalkoti**, Principal, for the valuable input.

We are also thankful to **College's Taskforce the faculty members** who have collected data required **Dr. Seema Rawat**, Vice-Principal and **Asst. Prof. Anita Chaudhary**, Coordinator - B.M.S *(Special mention for the excellent coordination).*

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

Contents

Disclaimer	1
Acknowledgment	2
Contents.....	3
1. Introduction.....	4
2. Compliance	6
3. Inferences.....	7
4. Compilation.....	9

1. Introduction

1.1 About Mogaveera Vyavasthapaka Mandali

It was established in the year 1902. It has completed 118 glorious years of Academic, Socio-Economic, and Cultural Excellence.

The MVM has been awarded the Karnataka Rajyotsava Prashasti for 2012 by Karnataka State Government. The courses offered by the College are documented below:

- Bachelor of Management Studies - (B.M.S)
- Bachelor of Science (Information technology) - B.Sc. I.T
- Bachelor of Commerce (Accountancy & Finance) - B.Com (A&F)
- Bachelor of Commerce - B.Com
- Bachelor of Commerce (Actuarial Studies) - B.Com (A.S.)
- Master of Commerce (Advanced Accountancy)

1.2 Populace analysis

1.2.1 Students data

- The student data (shared by the College) shows there were a total of **497 male and 343 female students** thus **a total of 840 students** in the premises in the academic year 2021-2022.
- The student data (shared by the College) shows there were a total of **370 male and 516 female students** thus **a total of 886 students** in the premises in the academic year 2022-2023.

1.2.2 Staff data

- The staff data shows the premises had 10 male and 20 female staff members; thus a **total of 30 Staff Members** in the premises in the academic year 2021-2022.

- The staff data shows the premises had 16 male and 17 female staff members; thus a **total of 33 Staff Members** in the premises in the academic year 2022-2023.

1.3 Total College Area & College Building Spread Area

The **total site area is 2.12 Acres** and the **total Built-up area of the College is 45,544 sq. ft.** for a **total of 919 footfalls.**

1.4 Timeline of activities for research

As the College had undergone a renewal for the Academic year 2021-2022 and 2022-2023, data collection processes for verification purposes were asked to be submitted. The report has been prepared based on the inputs provided for immediate action for improvement in this subject.

- Discussion with the College
- Allotment and Initiation by the College
- Process discussion with team
- Data submitted by College
- Submission of the files

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 as per previous Report dated 23 May 2022 are documented below:

Sr. No	Recommendation Title	Compliance Status
1.	Cutlery in the Canteen	As per the current requirements and number of footfalls in the canteen, use of disposable plates as compared to reusable plates is infeasible.
2.	Eco clubs	Students engaged in various extension units are engaged in conducting environment related activities.
3.	Terrace farming	Provision for Terrace farming is in process.
4.	Signages	Currently since institution does not have visually affected students. The suggestion will be implemented as per the requirement.
5.	Additional facilities for birds	Provision for Terrace farming is in process.
6.	Universal Toilet	The suggestion will be implemented at the time of renovation or redevelopment.
7.	Bicycles as a gift	Suggestion currently is infeasible. Can be implemented in future.
8	Smart Gardening System	Provision for same is in process.

Table 1: Details of the compliance study

3. Inferences

3.1 Section-wise recommendations

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.

3.1.1 Site beautification

- **Bird house/ Feeders** - At appropriate locations there can be provisions for drinking water and some grains for birds as they visit the site much frequently.
- **Child area** - There can be one provision where if student's or staff relative who are toddlers or senior citizens can rest and this area could have facilities accordingly.

3.1.2 Heat island reduction

No direct suggestions are recommended as the premise is a shared campus and does not face any urban heat island effect inside; whereas the surrounding areas might have a certain degree of negative effect but I cannot be commented for the Individual Institute as there are multiple Institutes in the premises.

3.1.3 Universally accessible premises

- **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 - Audio Visual Section** – There should be dedicated section for the visually impaired students to listen to the audio books; Abrar the audio book reader should be available.

3.1.4 Fire and Life safety

No recommendation required (for all the premises)

3.1.5 Pollution Control

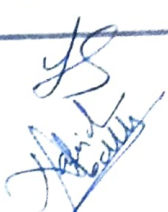





- **Promote the use of Eco-friendly vehicles** - There can be student and staff sensitization program on eco-friendly and battery-operated vehicles/ low emission vehicles for daily use.
- **Battery charging points for Eco-friendly vehicles** - There can be provision for battery charge points, this would inspire students to change their mode of transportation and adopt sustainable practices.
- **Bicycles as a gift** - As an appreciation gesture maybe the student's toppers/ staff best performers can be awarded a bicycle occasionally.

Induction Meeting

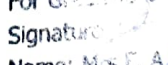
M V MANDALI'S COLLEGES OF

Institute: COMMERCE & SCIENCE Date: 12/04/2023

Audits covered: Green, Energy & Environment Day: Wednesday

S. No	Name	Designation	Signature
1.	MRS. FARIDA SHAIKH [EXTERNAL TEAM]	CO-ORDINATOR	
2.	AR NAHIDA ABDULLA [EXTERNAL EXPERT]	PROJECT HEAD	
3.	DR. SEEMA RAWAT (INTERNAL MEMBER)	VICE PRINCIPAL	
4.	MS. ANITA CHAUDHARY (INTERNAL MEMBER)	IQAC COORDINATOR	
5.	DR. NAVSIN MISTRY (INTERNAL MEMBER)	SENIOR FACULTY	
6.	MR. VISHWANATH ACHARYA (INTERNAL MEMBER)	SENIOR FACULTY	



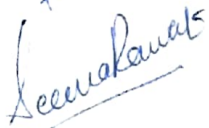



College Name: M V Mandali's Colleges of
 Signature: Commerce & Science
 Name: Dr. Seema Rawat
 Designation: Vice Principal
 Date: 12/4/2023


For Green
 Signature: 
 Name: Mrs F. A. Srinivas
 Designation: Manager
 Date: 12/4/23

Exit Meeting


Institute: M V MANDALI'S COLLEGES OF COMMERCE & SCIENCE Date: 12/04/2023

Audits covered: Green, Energy & Environment Day: Wednesday

S. No	Name	Designation	Signature
1.	MRS FARIDA CHAIKH [EXTERNAL EXPERT] TEAM	CO-ORDINATOR	
2.	DR NAHIDA ABDULLA [EXTERNAL EXPERT]	PROJECT HEAD	
3.	DR. SEEMA RAWAT VICE PRINCIPAL (INTERNAL MEMBER)	VICE PRINCIPAL	
4.	MRS ANITA CHAUDHARY (INTERNAL MEMBER)	IQAC COORDINATOR	
5.	DR. NAVSIN MISTRY (INTERNAL MEMBER)	SENIOR FACULTY	
6.	MIR VISUWANATH ACHARYA (INTERNAL MEMBER)	SENIOR FACULTY	

College Name: M V Mandali's Colleges of Commerce & Science
Signature: 
Name: Dr. Seema Rawat
Designation: vice principal
Date: 12/4/2023

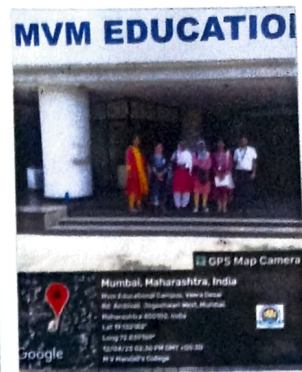
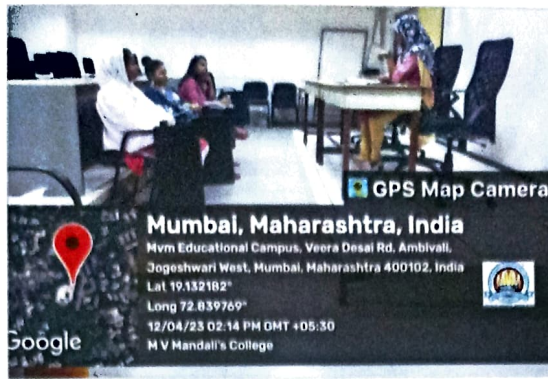


For Greenvio Solutions
Signature: 
Name: Mrs F. A. Shaikh
Designation: Manager
Date: 12/4/2023

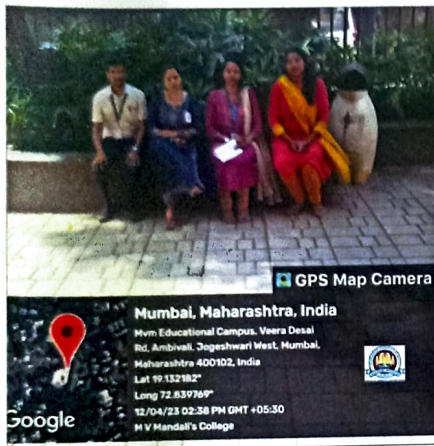


On-site investigation and physical verification

Audit Team during the visit and other photos collected during data documentation



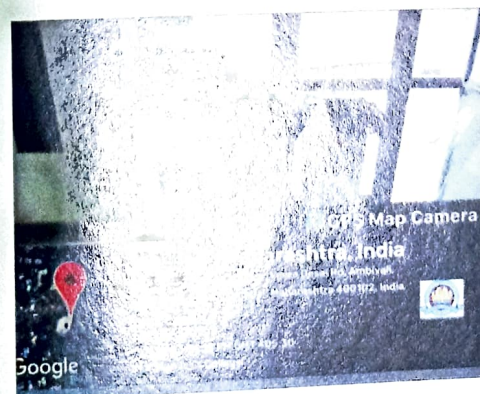
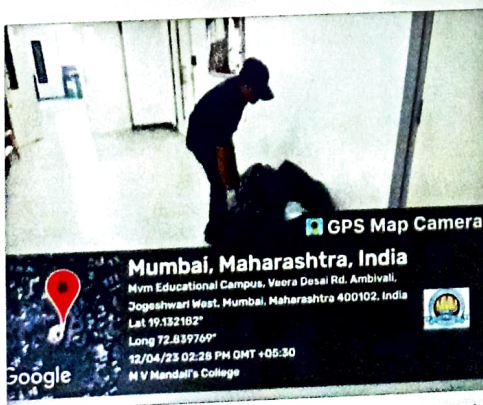
Meeting with the core team including Vice Principal and Co-ordinator



Seating area as user-friendly zone in premises; On-site discussion with the core team



Evidences about the Fire and Life safety practices; Discussion about development of the break-out zone



Waste management practices in the premises

4. 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
- Images on site by Coordinators of the both teams

