

BHARATIYA VIDYA BHAVAN

HAZARIMAL SOMANI COLLEGE OF ARTS & SCIENCE SHRI MANUBHAI MANEKLAL SHETH JUNIOR COLLEGE OF ARTS & SCIENCE JAYARAMDAS PATEL COLLEGE OF COMMERCE & MANAGEMENT STUDIES, K. M. MUNSHI MARG, CHOWPATTY, MUMBAI - 400007

ENVIRONMENT SUSTAINABLE INITIATIVES

Green Audit Report 2023-24



Prof.Dr.) Shantaj M. Deshbhratar Principal (In-charge)

Dr. Varsha Mallah IQAC Coordinator Dr. Suraj Gajbhiye Coordinator

Mr. Manish Indurkar (Environment Expert, RITES New Dehli)

Dr. Sandip Maind Mr. Ashok Ingle Mr. Deepak Nawale Dr. Ravidas Gavit

GREEN CAMPUS & AUDIT COMMITTEE



BHARATIYA VIDYA BHAVAN'S HAZARIMAL SOMANI COLLEGE OF ARTS &SCIENCE, SHRI MANUBHAI MANEKLAL SHETH JUNIOR COLLEGE OF ARTS &SCIENCE AND JAYARAMDAS PATEL COLLEGE OF COMMERCE & MANAGEMENT STUDIES, CHOWPATTY, MUMBAI 400 007

GREEN AUDIT REPORT

2023-24

PROF. (DR.) SHANTAJ M. DESHBHRATAR PRINCIPAL (IN-CHARGE)

DR. VARSHA MALLAH

IQAC COORDINATOR

PREPARED BY

DR. SURAJ GAJBHIYE - CHAIRPERSON

MR. MANISH INDURKAR (ENVIRONMENT EXPERT, RITES NEW DELHI)

DR. SANDIP MAIND

MR. DEEPAK NAVLE

MR. ASHOK INGLE

DR. RAVIDAS GAVIT

GREEN CAMPUS AUDIT COMMITTEE

TABLE OF CONTENT

Sr. No	Title	Page No
1	Introduction	4
2	Building design layout	10
3	Sustainable use of Resources and Safety measures	13
4.	Energy Efficiency Management	15
5.	Waste management practices	17
6.	Water management practices	19
7	Green Campus Initiative	24
8.	Conclusions	27
9.	Suggestions	28

1. Introduction

Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts & Science, Shri Manubhai Maneklal Sheth Junior College of Arts & Science and Jayaramdas Patel College of Commerce & Management Studies, Chowpatty, Mumbai 400 007, affiliated to University of Mumbai, recognized by the UGC under 2(f) and 12 (b) of UGC Acts and is a NAAC accredited College with B Grade.

It nestled close to magnificent dome structure of its parent institution, Bharatiya Vidya Bhavan. It was inaugurated on June 21, 1965, in the august presence of its Founder President, the late Kulapati Dr. K. M. Munshiji, Member of the Drafting committee of the Constitution of India.

The College is amongst the prestigious, traditional, and cultural heritage institutions in South Mumbai. The College avows the vision of its Founding Father, the late Kulapati Dr. K. M. Munshiji, and conveys the values of unity and intellectual expansiveness. True to its vision and creative energy, it constantly endeavours to mould the students and instils values, a sense of propriety and commitment.

The college offers undergraduate courses in Science, Arts and Commerce; postgraduate courses in Science and Commerce and Ph.D. courses in Zoology, Chemistry, Commerce and Trade, Transport and Industry. The College also offers Self-financing courses viz., BMS and BAF. The Science Departments have well-equipped and spacious laboratories with modern equipment. The faculty members are actively engaged in research and allied activities.

For details please visit website: http://www.bhavanschowpatty.ac.in



1. Governance

The management of Bharatiya Vidya Bhavan has steadfastly worked towards fulfilling the Mission laid down by Munshiji and our gratitude to them for their able and sound guidance in imbibing these principles and passing them on to the future generations

Member of College Governing Body

1.	Shri. Mukul Sonawala	-	Chairman
2.	Srhri. Sushil Somani	-	Member
3.	Shri. Rohit Patel	-	Member
4.	Shri. P.G. Shah	-	Member
5.	Dr. Rajendra Singh	-	Member
6.	Shri. Yogesh Kamdar	-	Member
7.	Shri. Ramesh Oza	-	Member
8.	Prof. G.B. Jani	-	Member
9.	Prof. (Dr.) Zarine Batra	-	Member
10	. Dr. B. N. Choudhary	-	Member
11	.Prof. (Dr.) Shantaj Deshbhratar	-	Member Se

Member Secretary (I/c Principal)

2. Academic Leadership



Prof. (Dr.) Shantaj M. Deshbhratar Principal (In-charge**)**

Prof. (Dr.) Shantaj M. Deshbhratar, a Research Guide and Head of zoology department, Ensuring high standards of education, enhancing teaching quality, and promoting research and innovation in the institution.

Prof. Deshbhratar focusing on the holistic development of students by providing extracurricular activities, personal development programs, and career guidance.
Encouraging continuous professional development of the teaching and non-teaching staff.
He is continuously trying to Upgrade the college's infrastructure and resources to provide a conducive environment for learning and research. Strengthening ties with local and global communities through outreach programs and collaborations.

He is driving the college toward achieving national and international recognition through accreditations, collaborations, and partnerships.

Ensuring proper utilization of funds for the overall development of the institution. Prof. (Dr.) Shantaj M. Deshbhratar is passionate about his vision and plan to make college a leading responsible college.

3. NAAC Accreditation

College has acrediated B grade with CGPA 2.16 in August 2022

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद विश्वविद्यालय अनुदान आयोग का स्वायल संस्थान NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL An Autonomous Institution of the University Grants Commission Certificate of Accreditation The Executive Committee of the National Assessment and Accreditation Council is pleased to declare Bharallia Vidya Bhavan's Hazarimal Somani College of Arts and Science and Jayaramdas Patel College of Commerce and Management Studies Choapatty, Mumbai, affiliand to University of Mumbai, Maharashtra as Accredited with CS PA of 2.16 on four point scale at B grade lid up to August 22, 2027 S. (Sa Date : August 23, 2022 Director BC(SC)/120/3" Cycle/MHCOGN109

3. Green campus and audit committee

As per the directives of the University Grants Commission (UGC) and the Government of Maharashtra, the college has established a Green Campus Audit Committee. The committee is comprised of five staff members, led by Dr. Suraj Gajbhiye, Coordinator and Associate Professor in the Department of Botany. The Principal, Prof. (Dr.) Shantaj M. Deshbhratar, serves as the Chairperson of the committee, with Dr. Varsha Mallah, IQAC Coordinator, as a member. Additionally, Mr. Manish Indurkar, Assistant Manager (Ecology & Biodiversity) at Urban Engineering, RITES Ltd., an enterprise under the Ministry of Railways, Government of India, based in Gurgaon (Haryana), serves as the external expert on environmental matters.

The Committee plays a key role in overseeing and evaluating these sustainability efforts. It is responsible for assessing the environmental performance of the campus, identifying areas for improvement, and ensuring the implementation of green practices. The committee ensures that the institution meets established sustainability criteria through regular audits and promotes continuous improvement.

The Green Campus Audit Committee plays a vital role in advancing the sustainability agenda of educational institutions. By evaluating the campus's environmental performance and fostering a culture of sustainability, the committee ensures a cleaner, healthier, and more environmentally responsible campus.

Aims:

The aims of the green campus initiatives to

- 1. promote practices that reduce the environmental footprint of the campus, such as reducing energy and water consumption, minimizing waste, and encouraging the use of renewable resources.
- 2. enhance environmental education and awareness among students, staff, and faculty through workshops, events, and curriculum integration.
- 3. foster partnerships with local communities and organizations to support broader sustainability goals and initiatives.
- 4. position the campus as a leader in sustainability by adopting cutting-edge green technologies and practices.

Objectives:

The main objectives of the green campus initiatives to

1. Implement energy-saving measures, such as upgrading to energy-efficient

- 2. Develop and enforce policies for recycling, composting, and reducing single-use plastics.
- 3. Introduce systems and practices to reduce water consumption and improve water management.
- 4. Design and retrofit campus buildings to meet green building certifications, such as LEED (Leadership in Energy and Environmental Design).
- 5. use of minimum chemicals for the experiments from all the science department and dispose it after treatment
- 6. manage the E-waste Management
- 7. Adopt procurement policies that prioritize environmentally friendly products and services.

2. Building Layout Design

Building Layout Design is a fundamental aspect of architectural planning that involves creating the structural arrangement and spatial organization of a building. The layout design serves as a blueprint that defines the positioning of rooms, corridors, entrances, and other functional areas within the building. It integrates aesthetics, functionality, safety, and compliance with regulations to meet the specific needs of the users. The building is located in Girgaon Division and design in 1965 with survey sheet no 186, survey no 2/1529,1532,1533,1535 & 1536

And the second s	and the second se
THE EXTRACT	
MO NO	the set of
ADASTRAL SURVEY SHEET NO 186 (Sixth Edition 1968) o/c	
SHOWING	- 4-3
CADASTRAL SURVEY NO. 2/1529,1532,1533,1535 & 1536	R HARD
CF	
GIEGAUM DIVISION	
SCALE - 1cm = 5 Metres	2
Note -	HETE
The Certified Conv of plan is given for c s	2114 41.
Boundries only without prejudice to	Lucie of Analicant
the status of structures & stories	Name of April 9[Marg]
on this rand in question	Date of Approximation 19398
0	Samptilo
8	is a second second
e sol i	17 JAN (J-)
3 153	Dine of Issue
S V V	A Contraction of the second seco
BAT D	A
N AND	1 1
IT I BUILT	LIJI
S Star	
at Isa,	
in the second se	1 153>
V) At an	13
184 1 1 1/2	Y Print and the second s
	236
	A A A A A A A A A A A A A A A A A A A
A per hist	
	Ant I
N 165 + 811 + 15-	The there is a second of the s
	1 The Address of A
	1535
CHAIN	N 1 16 338
An	Bhan
Ra	mahya I
- AO	Mar Sidva
The share the state of the state	Bhan I
	- Travan /
and the second	
9	RUNTENDR
	Sector Carla
CHARGES FOR THE CERTIFIED COPY OF	Section and a section of the section
TRUE EXTRACT OF THE PLAN RS4 201-	the state of the s
TRACED BY	A REAL REAL
Nullar Trilleco	Court
COMPARED BY	Carl Hall Stars Over
TPU TOPL	
JMBAI FO BILL	
ATTAN ST TAN ST	ETEN. RUPETS
TI JAN LOLD	A A A A A A A A A A A A A A A A A A A
	SURVEY &
	1 the states of
	00/00
Open-	CX12
15/1/2020	- the line
	182
ASSTT.SUPDT.	SUPERINTENDENT
CUM CITY SURVEY DEFICER No 2	MUMPHICITY CUDUCY CLAND DECOULD
and a second	NUMBER GITT SURVEY CLAND REGURDS
MUMBAI	and the second se
MUMBAI	1

College Administrative structure

Ground Floor

- Chemistry Department
- Chemistry lab & Research Lab
- Library and Gandhi Computer Institute

1st Floor

- Principal Office
- Administration office
- Smart class room 14
- First aid room, LCR, Gents washroom
- Computer laboratory and class room 12 and 16
- Library

2nd Floor

- Physics department and laboratory
- Computer laboratory 21
- Class room 22, 23, 24, 25 and 26
- Gandhi Computer Institute
- BMS department Office
- Gents and ladies Wash room

3rd Floor

- Botany and Zoology Department
- Laboratory (3)
- Museaum
- Zoology research laboratory
- Botany research laboratory
- NSS Office

- Gents washroom
- Examination centre
- Room No 33, 34, 35, 301, 302, and 303

4th Floor

- Mathematics department and laboratory
- Staff room
- Jyotish Bharati department
- IQAC Office
- Room no 41, 42, 43, 44, 47, 401
- Botanical Terrace Garden
- Gents and ladies washroom

5th Floor

- Room No. 501, 502, 503,504
- Gents and ladies washroom

6th Floor

- Room No. 601, 602, 603,604
- Commerce Research Laboratory
- Councelling and guidance centre
- Washroom

7th Floor

- Gymkhana
- Trade Research laboratory
- Examination paper store room
- Gents and Ladies washroom

3. Sustainable use of Resources and Safety measures

The initiatives and measure towards sustainable use of resources are as follows:

• Class room area

The classroom area refers to the physical space within a school, college, or educational institution designated for learning and teaching activities. The size and design of a classroom area are essential to creating an environment conducive to education, ensuring comfort, safety, and efficiency for both students and teachers. Each floor of the college building have sufficient numbers of classroom and benches to accommodate the students.

• Potable water Fresh air ventilation

Each floor of the college is fitted with the water purifier for drinking water to the students. Additionally, the college has water purifier with hot water facilities in the staff room, Administration Office and in each department which is also available to the students and staff.

Each class room has windows for proper ventilation and some room and offices are provided with Acs.

• Health and hygiene practice

Health and hygiene practices in college are essential to promoting a safe and productive learning environment for students, faculty, and staff. With a large population spending significant time in close proximity, maintaining good health and hygiene standards helps prevent the spread of illnesses, fosters a positive campus environment, and ensures the well-being of the college community.

Considering these facts the College has adopted and implemented the following Health and hygiene practices:

• The classrooms, laboratories, libraries, restrooms, and other common areas are regularly cleaned and sanitized to maintain a hygienic environment.

- The Desks, chairs, floors, and surfaces that are frequently touched should be disinfected regularly.
- The Restrooms are equipped with soap and clean water.
- Proper waste disposal systems are placed with dust bins at convenient locations around the campus. These bins are regularly emptied to avoid littering and bad Odors.
- The college canteen follows strict food safety and hygiene standards, including the use of fresh ingredients, proper cooking, and storage of food, and cleanliness of food preparation areas.
- Colleges had organized regular health and hygiene to educate students about topics such as proper handwashing techniques, nutrition, stress management, and mental health awareness.
- The Colleges had organized workshops to providing counseling services, peer support groups, and promoting awareness about mental health is crucial for student wellbeing.
- The college has kept first aid kits on that are easily accessible across the campus, in classrooms, labs, and sports areas, for minor injuries or medical emergencies.
- The College has partnerships with local hospitals or clinics for the students and staff to access more advanced medical care if needed.
- The College had Organized workshops on time management, mindfulness, and coping strategies can empower students to manage academic and personal stress.
- The Colleges had offer fitness classes such as yoga, aerobics, and gym facilities to promote a healthy lifestyle.
- Students and staff always wear appropriate protective gear like gloves, goggles, and lab coats in science labs and workshops to ensure safety and prevent accidents.
- Hazardous waste from labs is disposed of according to safety guidelines to avoid contamination and environmental damage.

4. Energy Efficiency Management

Energy Efficiency Management involves systematically optimizing energy use to reduce consumption and operational costs while minimizing environmental impact.

It focuses on identifying and implementing practices, technologies, and strategies that enhance the performance of energy systems within an organization or facility.

The goal is to achieve significant reductions in energy waste, enhance productivity, and lower greenhouse gas emissions. Effective energy efficiency management encompasses measures such as upgrading equipment to energy-efficient models, improving insulation, and optimizing operational procedures.

By adopting these practices, organizations not only contribute to environmental sustainability but also realize financial savings and operational benefits.

Sr no	Name of unit	Total unit
1	Tube lights	713
2	Fans	280
3	Computer	131
4	AC	31
5	Cooler	13
6	Oven	04
7	Microwave	02
8	Electric motor	03

The college has following numbers of electrical devices used during the working period

The total Rs. 11,72,423/- Electrical bill was paid during the academic year 2023-24 and the average monthly electricity bill is given in the following chart:



5. Solid Waste Management

Solid Waste Management (SWM) in a college setting is crucial for maintaining a clean and healthy environment, minimizing the environmental impact, and fostering sustainability. Colleges generate various types of waste, including paper, plastic, food waste, and e-waste. By implementing an effective SWM plan, colleges can reduce waste generation, promote recycling, and manage waste responsibly

The college has taken steps to manage waste effectively, but there is still room for improvement. This report highlights the current waste management practices and suggests recommendations for enhancement.

Current Practices:

- Garbage bins are placed in some rooms on each floor, but more bins are needed to ensure adequate coverage.
- There are 23 classrooms out of which 18 rooms have dustbins and 05 rooms do not have dustbins.

Classrooms available	Dustbins available	Dustbins required
23	18	05

- Waste papers from the offices, Answer books, etc. are sent for recycling, promoting sustainable practices.
- Separate arrangements for wet and dry waste have been made in the College canteen, reducing contamination and facilitating proper disposal.
- Hazardous Waste such as Laboratory waste (chemicals, glassware), batteries, e-waste (old electronics), and medical waste are disposed and send for the recycling
- The College NSS unit has organized regular e-waste drives to collect and responsibly dispose of old electronic devices and components





ge has Conduct regular educational sessions on the importance of waste segregation, recycling, and the environmental impact of improper waste disposal.



6. Water Management Practices

Background:

Water is so essential for life that it's simply impossible to imagine life without water. India has 16 % of the world's population and only 4 % of the world's water resources are available for use, and that too are depleting rapidly. The demand for water is expected to grow from 40 billion cubic metres (bcm) currently to around 220 bcm in 2025. The uneconomical and unethical use of water by human beings is the sole reason for the exploitation and deterioration of this valuable natural resource. Thus, both quality and quantity of water are at stake and have to be taken care of. It's the moral duty and social responsibility of each individual and community as a whole to contribute to conserve water and rejuvenate the water resources.

Goals and Plans:

- Maximize water use efficiency and minimize wastage of water.
- Existing building to be used for rainwater harvesting.
- Promote investment in green infrastructure in all future development plans.
- Ensure awareness about the water conservation policy of the college among all the staff and students.
- Create awareness about the cost effectiveness of water conservation projects among students and local communities.
- Organize various outreach programmes under the leadership of NSS, Nature-club and other student bodies.
- Promote students to monitor and collect information's related to water bodies and their pollution of nearby areas.
- Inform, educate and increase the awareness regarding the importance of water to life and the need for conservation and efficient use of water.

In this direction, our institute has made efforts to ensure water conservation and water harvesting in college campus.

The primary goal of Bhavans Hazarimal Somani College of Arts and Science and Jayaramdas Patel College of Commerce and Management studies is to provide safe and clean water in whole campus area.

The college is implementing water efficient practices. Student and staff play a major role in our water sustainability strategies. Reducing water consumption and protecting water quality shall be the key objectives of sustainable policy of our college.

The College has following numbers of water taps/devices used during the working period.

Sr. No.	Floor	Area	No of Water Taps	Total	No of water Purifier
1	Ground	Chemistry Laboratory, Toilets, Corridor	212+08+02	222	01
2	First	Office, Toilets, Corridor	02+20 +02	24	01
3	Second	Physics Laboratory, Toilets, Corridor	14+13 +03	30	01
4	Third	Biology Laboratory, Toilets, Corridor	25+07+03	35	02
5	Fourth	Staff Room/Botanical Garden, Toilets, Corridor	02+03+15	20	02
6	Fifth	Corridor	02	02	
7	Sixth	Corridor	02	02	
8	Seventh	Toilets, Corridor	10+02	12	01
			347	347	08

The College is having 08 Water Purifier and 347 Water Taps including in all science laboratories, office, Staff room, Toilets and in corridors.















The daily water consumption is 5000 litre and the municipal water bill for academic year is shown in following table

Sr. No	Duration	Water Bill
1	24/05/2023- 23/08/2023	11926
2	23/08/2023 – 22/11/2023	11807
3	22/11/2023 – 27/05/2024	4216

College has proper drainage facility to drain wastewater



Initiatives:

Bhavans Hazarimal somani College of Arts and Science and Jayaramdas Patel College of Commerce and Management studies is committed to ensuring that water is used most judiciously and is working towards making the facility more and more water sustainable. This has been achieved with the use of water efficient fixtures, and smart water conservation practices. • Storing Municipal supply water in underground water storage tank to reduce the supply of water in whole campus area.

• Ensuring the improvement of drinking water quality by installation of water purifiers in many places in the campus.

• College campus is blessed with overhead tanks for storage and uniform distribution of water in the campus area.

• The college fix leakages immediately and perform periodic maintenance required to prevent water loss.

• To create awareness of water conservation and water harvesting among students, several competitions have been organized.

• Organizing special lectures on water management to drew the attention of the students towards the alarming consequences of uneconomical use of water and water pollution.

7. Green Campus Initiative

Bhavans College, known for its commitment to academic excellence, faces a common urban challenge: limited space. However, this limitation hasn't deterred the institution from embracing green technology to foster sustainability and efficiency.

The college has the paucity of space as located in south Mumbai, the college has utilized the terrace of fourth floor to develop botanical garden.



The following species of plants are cultivated in earthen pot at the terrace botanical garden

SR. NO.	NAME OF THE PLANT	FAMILY
1.	Psychotria nervosa	Rubiaceae
2.	Casuarina equisetifolia	Casuarinaceae
3.	Araucaria columnaris	Araucariaceae
4.	Loropetalumchinense	Hamamelidaceae
5.	Chlorophytum comosum	Asparagaceae
6.	Selaginella tamariscina	Selaginellaceae
7.	Tradescantia	Commelinaceae
8.	Ocimum sanctum	Lamiaceae
9.	Aloe vera	Asphodelaceae
10.	Cordyline fruticosa	Asparagaceae
11.	Turneraulmifolia	Passifloraceae
12.	Sansevieria zeylanica	Asparagaceae
13.	Dieffenbachia	Araceae
14.	Epipremnumaureum	Araceae
15.	Aglaonema	Araceae
16.	Setariaverticillata	Poaceae
17.	Piper betle	Piperaceae

18.	Hibiscus Rosa-sinensis	malvaceae
19.	Eichhornia sp.	Pontederiaceae
20.	Mirabilis jalapa	Nyctaginaceae
21.	Coleus sp.	Lamiaceae
22.	Pentas lanceolata	Rubiaceae
23.	Cocos nucifera	arecaceae
24.	Opuntia dillenii	Cactaceae
25.	Mangifera indica	Anacardiaceae
26.	Dracaena sanderiana	Asparagaceae
27.	Nerium indicum	Apocynaceae
28.	Euphorbia Mili	euphorbiaceae
29.	Alpinia zerumbet	Zingiberaceae
30.	Citrus limon	Rutaceae
31.	ambusa multiplex F. Variegata	Gramineae
32.	areca palm	Arecaceae
33.	Hymenocallis sp.	Amaryllidaceae
34.	Euphorbia tirucalli	euphorbiaceae
35.	Licuala spinosa	Arecaceae
36.	Euphorbia tithymaloides	euphorbiaceae
37.	Nyctanthes arbor-tristis	Oleaceae
38.	Ficus elastica	Moraceae
39.	Azadirachta indica	liliaceae
40.	Pentalinon luteum	Apocynaceae
41.	Ficus racemosus	Moraceae
42.	Dieffenbachia senguine	areceae
43.	Tamarindus indica	Fabaceae
44.	Nephrolepis sp.	Nephrolepidaceae
45.	Magnolia champaca	Magnoliaceae
46.	Jasminum sp	Oleaceae
47.	Portulaca umbraticola	Portulacaceae
48.	Tulbaghia fragrans	Amaryllidaceae
49.	Trachyspermumammi	Apiaceae
50.	Achyranthes aspera	Amaranthaceae
51.	Zingiber officinale	Zingiberaceae
52.	Emblica officinalis	Phyllanthaceae
53.	Ixora sp.	Rubiaceae
54.	Lantana camara	Verbenaceae
55.	Thuja sp.	Cupressaceae
56.	Kalanchoe sect. Bryophyllum	Crassulaceae
57.	Euodia ridleyi	Rutaceae
58.	Zamia furfuracea	Zamiaceae
59.	Peperomia pellucida	Piperaceae
60.	Cymbopogon citratus	Poaceae

In addition to it the adjacent area of college is also covered with the common plants on the BMC road



8. Conclusion

The green audit report of Bhavan's Hazarimal Somani College of Arts and Science and Jayaramdas Patel College of Commerce and Management studies, Chowpatty, Mumbai was conducted by the Green Campus Audit committee for the academic year 2023-24. The committee has worked in the parameters such Sustainable use of Resources and Safety measures, Efficiency Management, Waste management practices, Water management practices and Green Campus Initiative, etc.

The **Green Campus Audit** serves as a comprehensive evaluation of a college's commitment to sustainability through the responsible and efficient use of resources, safety measures, and environmental practices. Key areas such as Sustainable Use of Resources and Safety Measures highlight the importance of minimizing resource consumption and ensuring campus safety through eco-friendly infrastructure, efficient energy use, and proactive hazard management. The College has sufficient facilities to use sustainable potable and non-potable water and have very good drainage system. Water Management Practices focus on conserving water through efficient usage and reducing water waste, contributing to sustainable water stewardship.

The audit of **Waste Management Practices** underscores the significance of proper segregation, recycling and waste reduction initiatives, which collectively reduce the environmental footprint and promote a cleaner campus environment. As the college do not produces significant amount of the wet waste, this waste is send to the BMC for recycling.

Similarly, the College is located in the south Mumbai region and due to paucity of the land area and campus, it is not possible to develop the garden and more green spaces but the vertical garden/ green spaces can be developed under Green Campus Initiative. The college has botanical terrace garden on 4th floor which comprises of 60 plant species in the earthen pot.

In summary, the Green Campus Audit reflects the institution's dedication to sustainability by actively engaging in resource efficiency, waste management, water conservation, and green initiatives. This holistic approach not only enhances campus operations but also contributes to global efforts toward environmental protection and sustainability.

9. Recommendation:

After evaluating the sustainable practices implemented in the college, the following recommendations are provided:

- The electricity bills indicate high consumption. To reduce it, sensitization programs should be conducted to raise awareness about minimizing energy usage. The Green Club staff and students should take initiatives to reduce electricity consumption.
- 2. Increase the use of energy-efficient appliances, such as LED lights, energy-saving fans, and air conditioners (ACs).
- 3. Install sustainable energy sources, such as solar panels, to reduce dependency on conventional electricity.
- Increase the number of garbage bins on each floor for easy access and to encourage proper waste disposal. Implement a color-coding system for bins to differentiate between wet and dry waste.
- 5. Conduct regular waste audits to monitor waste generation and identify areas for improvement.
- 6. Organize awareness campaigns and workshops to educate students and staff on proper waste management practices.
- 7. Consider implementing a composting system for food waste generated in the canteen.
- 8. To minimize water wastage, organize awareness campaigns and workshops on water conservation techniques.
- 9. The college has a well on its premises, which can be utilized for rainwater harvesting.
- 10. Ensure that laboratory wastewater is treated before it is discharged to prevent environmental contamination.
- 11.Develop more green spaces or vertical gardens to enhance the campus's ecological balance.
- 12. Conduct regular green audits to ensure the long-term sustainability of the college.

Green Campus Audit committee

Green Campus Audit committee

Sr.	Name	Designation	Signature
No			۵
1	Prof. (Dr.) Shantaj M. Deshbhratar	Principal (I/c)	lel.
2	Dr. Varsha Mallah	IQAC Coordinator	aug.
3	Dr. Suraj Gajbhiye	Coordinator	Espin
4	Dr. Sandip Maind	Member	Santa : not .
5	Mr. Deepak Navle	Member	Naly.
6	Mr. Ashok Ingle	Member	Contes
7	Dr. Ravidas Gavit	Member	ation
8	Mr. Manish Indurkar	Env. Expert	Anduka