

GREEN AUDIT REPORT – 2025
Academic Year: 2024–2025

M. S. Ramaiah College of Arts, Science and Commerce – Autonomous
MSR Nagar, Bengaluru – 560054

Prepared for:
Internal Quality Assurance Cell (IQAC)

Prepared by:
Green Audit Committee / Environmental Audit Team

Year of Audit: 2025

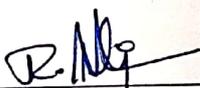
CERTIFICATE OF GREEN AUDIT

This is to certify that the Green Audit of M. S. Ramaiah College of Arts, Science and Commerce (Autonomous), Bengaluru has been conducted for the academic year 2024–2025.

The audit was carried out to evaluate the environmental practices followed by the institution in areas such as energy management, water conservation, waste management, green campus initiatives, biodiversity conservation, and environmental awareness.

The audit process involved inspection of the campus facilities, verification of institutional records, and interaction with faculty, staff, and students. Based on the observations and information provided, the institution demonstrates commitment toward sustainable environmental practices and eco-friendly campus management.

Date: 07/11/2025
Place: Bengaluru

Auditor Signature: 
Name of Auditor: MUNIR RAMESH
Designation: Environmental Auditor


Principal
M.S.Ramaiah College of Arts, Science &
Commerce-Autonomous
MSRIT POST, MSR Nagar
Bengaluru - 560 054

AUDITOR DECLARATION

I hereby declare that the Green Audit conducted at M. S. Ramaiah College of Arts, Science and Commerce (Autonomous), Bengaluru is based on the data and information provided by the institution and the observations made during the physical inspection of the campus.

The information presented in this report reflects the environmental practices and sustainability initiatives of the institution during the academic year 2024–2025 to the best of my knowledge.

Name of Auditor: MUNIRAT RAMESH
Designation: Environmental Auditor
Signature: 
Date: 07/11/25



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1. INTRODUCTION

Environmental sustainability has become an important responsibility for higher educational institutions. Educational institutions play a crucial role in promoting environmental awareness and implementing eco-friendly practices within their campuses.

A Green Audit is a systematic evaluation of environmental performance within an institution. It helps identify areas where natural resources are used efficiently and where improvements can be made to reduce environmental impact.

The Green Audit for the academic year 2024–2025 has been conducted to assess the environmental practices of M. S. Ramaiah College of Arts, Science and Commerce (Autonomous), Bengaluru and to encourage sustainable development within the campus.

2. Objectives of the Green Audit

The major objectives of conducting the Green Audit are:

- To evaluate environmental practices within the campus
- To assess energy consumption and conservation practices
- To examine water usage and water conservation measures
- To review waste management practices
- To evaluate biodiversity and green cover in the campus
- To promote environmental awareness among students and staff

3. Scope of the Audit

The scope of the Green Audit includes the evaluation of various functional areas within the institution to assess environmental practices and sustainability measures. The audit covers academic buildings and classrooms where teaching and learning activities take place, as well as laboratories and computer labs that utilize electrical and technological resources. Administrative offices were also included in the evaluation to understand resource consumption related to institutional management. In addition, the library and seminar halls were assessed as they are major shared academic facilities used by students and staff. The audit also considered the canteen and other common facilities where daily operational activities occur. Outdoor campus areas, including gardens, landscaped spaces, and green zones, were examined to evaluate biodiversity, greenery, and environmental management practices within the campus.

4. Methodology

The Green Audit was conducted using a systematic methodology that included several stages of evaluation. Initially, relevant data related to energy consumption, water usage, and waste management practices were collected from institutional records and administrative departments. A detailed physical inspection of the campus was then carried out to observe the infrastructure, environmental practices, and resource management systems in place. Interaction with stakeholders formed an important part of the methodology; discussions were conducted with faculty members, students, and maintenance staff to gain insights into sustainability practices followed in the institution. Finally, institutional documents, policies, and environmental guidelines were reviewed to understand the framework and initiatives adopted by the institution for environmental management and sustainability.

5. Institutional Profile

M. S. Ramaiah College of Arts, Science and Commerce (Autonomous) is located in MSR Nagar, Bengaluru, Karnataka. The institution was established in the year 1994 and is affiliated with Bengaluru City University. It is an urban educational campus that offers a range of undergraduate and postgraduate programs along with certificate courses in various disciplines. The college provides modern infrastructure and facilities to support academic and student development activities. These facilities include well-equipped classrooms, advanced laboratories, seminar halls, a well-stocked library, and various student support services that contribute to an effective learning environment.

6. Energy Audit

Electricity is one of the major resources utilized within the campus and plays a crucial role in supporting academic and administrative activities. Energy is primarily consumed for lighting, ventilation, operation of laboratory equipment, and functioning of computer systems. Major areas of energy consumption include computer laboratories, science laboratories, administrative offices, library facilities, and campus lighting systems. In order to reduce energy consumption and promote sustainability, the institution has implemented several energy conservation measures. These include the installation of LED lighting across different sections of the campus, encouraging the practice of switching off electrical equipment when not in use, utilizing natural lighting and ventilation in classrooms wherever possible, and carrying out regular maintenance of electrical equipment to ensure efficient functioning and reduced energy loss. On an average of **12,000 units** consumed by the institution per month

7. Water Audit

Water conservation and efficient utilization are important components of sustainable campus management. The institution has implemented several systems such as **rainwater harvesting, sewage treatment, and water reuse mechanisms** to ensure optimum usage of water and minimize wastage.

One of the major initiatives implemented on the campus is the **Sewage Treatment Plant (STP)** with a capacity of **250 KLD**, designed using **Sequential Batch Reactor (SBR) technology** and controlled through a **Programmable Logic Controller (PLC)**. Wastewater generated from campus facilities is collected and treated through physical, biological, and chemical

processes. The treatment includes aeration, settling, decantation, and disinfection using sodium hypochlorite followed by filtration through a pressure sand filter. The treated water meets quality standards with parameters such as pH (7.35), BOD (6.8 mg/L), and COD (36.9 mg/L). This treated water is **reused for gardening and toilet flushing**, thereby reducing the demand for fresh water and preventing wastage.

Another major water conservation initiative is the **Rainwater Harvesting (RWH) system** implemented in the campus. The institution has a large rooftop catchment area of about **6,591 m²**, which helps in collecting rainwater during the rainy season. With an annual rainfall of approximately **1004.6 mm**, the campus has an estimated rainwater harvesting potential of about **56,28,120 litres per year**. Rainwater from terraces, drainage systems, gardens, and open areas is collected and stored in rainwater harvesting tanks.

The campus has **rainwater storage sumps with a capacity of about 5,00,000 litres and 14 recharge pits** that help store and recharge groundwater. Excess rainwater is directed to **infiltration wells near bore wells**, which supports groundwater recharge and ensures sustainable water availability.

To track and monitor water usage, the institution conducts periodic assessments of water consumption and wastewater generation. The performance of the STP and rainwater harvesting systems is regularly monitored, and laboratory tests are conducted to ensure the treated water meets environmental standards. Proper documentation and evaluation of water management systems help in identifying improvements and preventing wastage.

Through the combined implementation of **rainwater harvesting, wastewater treatment, recycling, and groundwater recharge**, the institution ensures **efficient water management, optimum utilization of available resources, and progress toward the goal of zero water wastage**.

8. Waste Management Audit

Effective waste management practices are essential for maintaining a clean and healthy campus environment. The institution generates different types of waste including solid waste, paper waste, organic waste, and electronic waste. In order to manage these wastes efficiently, the campus follows a systematic waste segregation practice. Separate bins are placed in different locations for wet waste, dry waste, and recyclable materials, enabling proper sorting and disposal. Organic waste generated within the campus is disposed of through municipal waste management systems, while paper waste is collected and sent for recycling. Electronic waste, which requires special handling, is managed through authorized recycling agencies to ensure environmentally safe disposal.

9. Green Campus Initiatives

The institution has adopted a variety of **Green Campus initiatives** to create and maintain an environmentally friendly and sustainable campus environment. Along with effective water conservation systems such as rainwater harvesting and sewage treatment for water reuse, the institution has implemented several measures to promote responsible resource management and ecological balance. One of the key initiatives includes the use of **renewable energy sources**, where solar energy systems are installed on the campus to generate clean electricity and reduce dependence on conventional power sources. Energy-efficient practices such as the

use of LED lighting, optimum utilization of natural light and ventilation, and regular maintenance of electrical equipment further contribute to reducing energy consumption and carbon footprint. The institution also promotes environmental sustainability through **tree plantation drives and maintenance of landscaped gardens**, which enhance green cover and improve air quality within the campus. Waste management practices such as **segregation of wet and dry waste, recycling of paper waste, and safe disposal of electronic waste through authorized agencies** are regularly followed to ensure a clean and healthy environment. In addition, the campus actively promotes **plastic reduction initiatives, clean campus campaigns, and awareness programs** to encourage students and staff to adopt eco-friendly habits in their daily activities. Environmental awareness is further strengthened through programs such as **World Environment Day celebrations, campus cleanliness drives, and student participation in sustainability activities**, which help build a culture of environmental responsibility. Through these integrated initiatives including renewable energy utilization, water conservation, waste management, and biodiversity enhancement, the institution continues to work towards developing a **sustainable, energy-efficient, and eco-friendly green campus**.

10. Biodiversity Audit

The campus maintains landscaped gardens and green areas that support local biodiversity and contribute to a pleasant learning environment. A variety of flora is present on the campus, including shade trees, flowering plants, ornamental plants, and medicinal plants. The campus has **98 trees – 10 Ashoka tree, 1 drumsticks tree, 9 Pongami tree, 1 Indian Almond tree, 3 Portia tree, 1 tamarind tree, 4 Jamun tree, 1 Cotton tree, 58 Champaka tree, 2 Guava tree, 2 Jack tree, 2 mango tree, 2 sweet banarasi amla fruit plants, and 2 malai vembu tress**. These plants not only enhance the aesthetic appeal of the campus but also help improve air quality and ecological balance. The campus environment also supports various forms of fauna such as birds, butterflies, and small insects. The presence of these organisms indicates a healthy ecological environment and contributes to maintaining biodiversity within the campus.

11. Environmental Awareness Activities

The institution regularly organizes activities aimed at promoting environmental awareness among students and staff. Events such as World Environment Day celebrations are conducted to highlight the importance of environmental protection and sustainability. Tree plantation drives are organized to increase greenery and encourage community participation in environmental conservation. Campus cleanliness programs are conducted to maintain hygiene and promote responsible waste management practices. Environmental awareness workshops and seminars are also organized to educate students about sustainability issues and motivate them to actively participate in eco-friendly initiatives.

12. Observations and Findings

The Green Audit revealed several positive environmental practices followed within the campus. The institution maintains a good level of green cover through landscaped gardens and tree plantations. Waste segregation practices have been implemented across the campus to ensure efficient waste management. Energy-efficient lighting systems such as LED lights are used in many areas to reduce electricity consumption. Additionally, students actively

participate in environmental awareness activities and sustainability initiatives, reflecting a positive environmental culture within the institution.

13. Recommendations

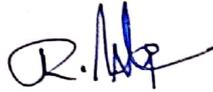
To further strengthen sustainability practices, several improvements are recommended. The institution can consider establishing composting units for organic waste generated within the campus, which would help in converting waste into useful manure for gardening. Expanding the green cover through additional plantation drives can further enhance biodiversity and environmental quality. Continuous awareness programs and sustainable resource management practices will help the institution progress towards becoming a more environmentally responsible and sustainable campus.

14. CONCLUSION

The Green Audit conducted for the academic year 2024–2025 indicates that the institution is committed to maintaining an environmentally sustainable campus.

Through continued efforts in energy conservation, waste management, water conservation, and environmental awareness, the institution can further strengthen its commitment to sustainability and environmental responsibility.

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Green Audit Committee / IQAC



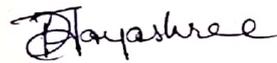
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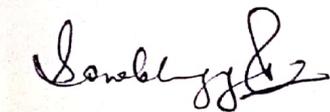
Coordinator
IQAC

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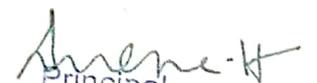
Committee members

1. 

2. 

3. 

4. 



Principal
M.S.Ramaiah College of Arts, Science &
Commerce-Autonomous
MSRIT POST, MSR Nagar
Bengaluru - 560 054