Environment Audit



2021-22 & 2022-23

Society for Academic Facilitation & Extension ISO:14001: 2015 & ISO:50001: 2018

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Acknowledgement

We extend our sincere appreciation and gratitude to the esteemed members of the Managing Committee of Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur, for their invaluable contributions and unwavering support in the completion of the Green Audit report. The dedication and collaborative efforts of the following individuals have been instrumental in the successful execution of this project:

Managing Committee:

ARCHANA SINGH	CHAIRMAN
JAY PRAKASH TIWARI	MANAGER
RAJEEV TIWARI	MEMBER
SHESHDHAR TIWARI	MEMBER
GYANDEV DUBEY	MEMBER
College Officials:	
Dr. Avadhesh Kumar Srivastava	(Principal) Chairperson
Dr. Kripa Shankar Yadav	Co-Coordinator
Dr. Nagendra Prasad Yadav	Co-Coordinator
Dr. Mayank Tiwari	Member
Dr. Sanju Shukla	Member
Mr.Vikash Sharma	Member
Dr. Sohan Lal Yadav	Member
Mr. Ravi Kumar	Member
Dr. Vinod Kumar Tripathi	Management Representative
Dr. Sharda Prasad Singh	Employer Representative
Dr. Manoj Kumar	Administrative (Registrar)
Dr. Vinay Kumar Tripathi	Local Society represent
Naseem Bano	Alumni Representative
Durgesh Tiwari (M.A)	Student Representative
Nikita Chaurasiya (B.Ed)	Student Representative
Komal Mishra (B.A)	Student Representative

We are grateful for the cooperation and assistance provided by the entire college community, whose commitment to sustainability and environmental stewardship has greatly contributed to the success of this audit.

Sincerely,

SAFE (Society for Academic Facilitation and Extension)

About the Institution

Raghuveer Mahavidyalaya: A Center of Excellence in Higher Education**

Raghuveer Mahavidyalaya, located in the serene village of Thaloi, Bhikharipur Kala, Jaunpur, Uttar Pradesh (PIN 222143), stands as a distinguished institution committed to providing quality education. Affiliated with Veer Bahadur Singh Purvanchal University, Jaunpur, and recognized under sections 2(f) and 12(b) of the University Grants Commission (UGC), the college offers an array of undergraduate and postgraduate programs. These include Bachelor of Arts (BA), Bachelor of Education (BEd), and Master of Arts (MA), catering to a wide spectrum of academic pursuits.

Under the able leadership of Principal Dr. Avadesh Kumar Shrivastava (M.A., PhD), the college is dedicated to fostering academic excellence and holistic development. The institution is managed by Lalita Shikha Samiti, with Dr. Jay Prakash Tripathi serving as the Manager, ensuring the smooth functioning of the college. Raghuveer Mahavidyalaya is also a study center for Uttar Pradesh Rajarshi Tandon Open University, Prayagraj, further broadening its educational reach.

For inquiries, the college can be contacted via email at principal.raghuveer@gmail.com or through the contact numbers 8858621010 and 8840684377. The institution's commitment to academic integrity and community service is reflected in its well-established infrastructure and its robust affiliation with reputable educational bodies.

For more information, visit the college's official website: www.raghuveermahavidyalaya.org.in.

Statements of the Institution

- Vision: The college was established by the successful hands of Pandit Prithvipal Tripathi in a village named Thaloi on the Sujanganj-Machhli Shahar road in Jaunpur district, the land of Yamadagni. Before the establishment of this college, there was no any college to get higher education in the radius of 7 KM. Keeping this in view this college was established for the poor deprived backward students of this rural area to get higher education. The main objective of this college is educate rural students and connecting them to the main stream of society by providing them higher education. In view of this deficiency, Pandit Prithvi Pal Tripathi established this college and today by getting higher education from this college, the students have increased the pride of this area and this college. The society near by the college area getting new dimensions of development.
- **Mission:** The college aims to become a leading educational institution that would be recognized as a centre of excellence to impart quality education, create knowledge, integrate traditional and modern knowledge and impart inclusive education and build values, ethics and character. To create a student credit institution that inculcates experiential, innovative and lifelong learning skills. To solve societal problems. To promote and pursue all-inclusive research and development. To inculcate entrepreneurial attitude and values in the learners. To prepare the students of the college as good citizens of the nation through a socially balanced, globally informed, culture inspired and future oriented teaching paradigm. To prepare students to aspire to make significant contributions to the development of the nation through socialist

and secular strategies of education. The college will continue to foster talent and build on its rich reserves of fame and reputation.

- Motto: "Asto Ma Sadgamaya Tamso Ma Jyotirgamaye"
- Objective:

The college ensures openness, dedication and honesty in all its activities. The college regularly celebrates birth and death anniversaries of social reformers freedom fighters as well as national festivals as declared by the Government of India, Government of U.P. and Veer Bahadur Singh Purvanchal University, Jaunpur. The college actively engages programs and campaigns in partnership with faculty, staff and students to raise awareness on gender issues specifically the empowerment of women and environmentally conscious practices. To secure the well-being of female students, the college conducts anti-ragging sessions and campaigns such as Beti Bachao and Beti Padhao. The college has implemented rainwater harvesting. The college carries out green energy with solar pannel (LED lamps) to maintain a clean and green campus. Creation of awareness among students and faculty to use public transportation, bicycles and shared vehicles. The institute aims to enhance future academic excellence through the introduction and development of Ph.D. programs.

• Aim of the College:

The primary aim of Raghuveer Mahavidyalaya is to foster academic excellence and holistic development in its students by offering quality higher education in disciplines such as Arts and Education. The institution is committed to nurturing a dynamic learning environment that empowers students to realize their intellectual potential and develop critical thinking skills. With a focus on inclusive education, the Mahavidyalaya seeks to instill values of integrity, leadership, and social responsibility, preparing students to contribute meaningfully to society. Affiliated with Veer Bahadur Singh Purvanchal University and recognized by UGC, the institution strives to be a center of learning that aligns traditional academic rigor with modern educational practices.

The Natural Environs of Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur (UP)

Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur (UP), is located in a setting that gracefully balances the advantages of rural tranquility with the accessibility of contemporary amenities. Situated in one of Uttar Pradesh's culturally significant regions, the campus stands as a peaceful enclave amidst the pastoral landscape of Jaunpur. The college is enveloped in verdant greenery, featuring meticulously maintained gardens and tree-lined pathways, providing an atmosphere conducive to both academic focus and personal reflection. These natural spaces not only enhance the aesthetic appeal but also offer a sanctuary for mental rejuvenation, fostering an environment of calm and concentration for both students and faculty.

The campus boasts several ancient trees, which serve as living monuments to the institution's rich history and enduring traditions. These towering trees provide both shade and a sense of

continuity, creating outdoor spaces that are ideal for gatherings, academic discussions, and leisurely activities.

In addition to the tranquil campus atmosphere, Raghuveer Mahavidyalaya enjoys proximity to the natural beauty of the surrounding countryside, offering students the opportunity to engage with the local environment beyond the college grounds. The nearby rivers and open spaces further enrich the sense of serenity and connection to nature. The institution's dedication to environmental sustainability is evident through initiatives such as rainwater harvesting, waste recycling, and energy-efficient practices, all of which reflect its commitment to preserving the natural ecosystem.

In summary, Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur, embodies a thoughtful integration of rural serenity and environmental stewardship, creating a nurturing space that promotes both academic excellence and personal growth.

Assessment of the College

- Affiliation: The College has all its courses approved and affiliated to Veer Bahadur Singh Purvanchal University, Jaunpur, UP, India, A State University-Government of Uttar Pradesh; Accredited A+ by NAAC
- **AISHE:** The College has the AISHE Code <u>C-16019</u>
- **Recognition:** The College is recognized by University Grant Commission (UGC) under section 2(f) and 12 (b) of the UGC Act, 1956 vide by University Grants Commission, New Delhi

Institution overview

- > Populace analysis for Academic year 2022-23
- ✤ <u>Staff data</u>

Type of Staff	No. of Staff
Admin staff	02
Teaching staff	24
Non-Teaching staff	02
Total Staff Members	28

Table 1: Staff data of the Institution for 2022-23



The staff data shows the premises had a total of **28** Staff Members.

Populace analysis for Academic year 2021-22

Students' data

The data provided by the College indicates that there was a **total of 522** students on the premises.

Staff data

Type of Staff	No. of Staff
Admin staff	02
Teaching staff	24
Non-Teaching staff	02
Total Staff Members	28

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

The staff data shows the premises had a total of 28 Staff Members.



College Infrastructure

Establishment: The College was established in 2013. The building is a Reinforced Cement Concrete (RCC) framework building. Overall, the Infrastructure of the Building is excellent in terms of the Architecture Design and Green Building Design. The Premises covers quite a few of the requirements for a Green Habitat. The infrastructure of a college refers to the physical facilities and resources that support the educational and administrative functions of the institution. It encompasses various elements such as buildings, classrooms, libraries, laboratories, administrative offices, recreational areas, and other facilities.

Spatial Organisation: The overall ambiance of Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur (UP), exudes warmth and approachability. The classrooms and other academic spaces are thoughtfully designed, benefiting from ample natural ventilation through large, clear-glass windows that facilitate a continuous flow of fresh air. Architecturally, the building stands out with a carefully curated color scheme that enhances its institutional character while harmonizing with the local vernacular architecture and the surrounding natural landscape, which is enriched by the presence of mature trees. This architectural synergy fosters a tranquil and conducive learning environment, where the built form seamlessly integrates with its serene backdrop. The floor-to-ceiling height exceeds 11 feet, contributing to the spatial openness. Although the premises are not equipped with lifts, essential amenities such as CCTV, fire extinguishers, a well-stocked library, and a first aid box ensure safety and functionality.

SAFE Study Audit

About the SAFE Study Audit

It is a systematic study of the factors that make the institution a sustainable and healthy environment for its inhabitants.

> Analysis for the SAFE Study Audit

The procedure included detailed verification for the following:

Energy Audit

- Analysis of the Lights, Fans, AC, Equipment
- Renewable energy
- Scope for reducing the current energy bills if any
- Improvement in the thermal comfort of the premises

Green Audit

- Green initiatives
- Hygiene audit
- Water Audit Analysis of the current water consumption of premises; Scope to include Rain water harvesting and Waste water treatment in premises
- Waste Audit Current waste produced, its segregation and usage; Strategies to be adopted for waste management and awareness

Environmental Audit

- Analysis of the current landscape + hardscape of campus
- Analysis of the flora and fauna of campus
- Strategies adopted at present to enhance vegetation
- Measures that can be adopted for ecological improvement of the premises.

> Strategy Adopted for SAFE Study Audit

The strategy included data collection from the administrative department, actual inventory inspection, investigation of operation and maintenance procedures, analysis of the collected data, and preparation of the report.

Timeline of the Activities for Green Building Study Audit

- 05 September 2024 Allotment and Initiation by the College
- 05 September 2024 Induction meeting
- 12 September 2024 Survey of the Student and staff submitted.
- 28 September 2024 Site visit at the Institute
- 28 September 2024 Submission of the report

Ecological (Environmental) Audit

The environment is integral to human life and cannot be seen as a separate entity; we coexist with it. An ecological audit helps us understand the current state of flora and fauna within the college premises and identifies potential improvements. It also addresses any audio-related issues in the area and monitors the environmentally conscious behaviors adopted by the building's occupants, contributing to a reduced carbon footprint. People's health is paramount, and promoting hygienic habits and awareness of environmental actions is crucial. Universal design principles are essential for both built and unbuilt areas, ensuring accessibility and inclusivity.

Our study reveals that *Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur*, has developed eco-friendly practices and sustainable solutions, which are reflected in the limited biodiversity within the premises. Situated in the city, the college boasts a welcoming entrance space that enhances its appeal. The open spaces within the college are multifunctional, serving as leisure areas for study and grounds for sports activities. The design includes ample resting spaces that offer a warm and inviting atmosphere.

Open Spaces

The college maintains a harmonious balance of natural and open spaces, with well-distributed vegetation and open areas. The ground serves as a venue for sports and cultural gatherings, providing students with ample space for various activities. The landscape design integrates both softscape and hardscape elements, creating an aesthetically pleasing and functional environment that benefits the institution.

Efforts to enhance the natural beauty of the space include provisions for natural plantations, which have significantly improved the visual appeal. The maintenance staff, assigned to upgrade these open spaces, have performed their duties exceptionally well. The infrastructure committee also plays an active role in this process. Traditional tap and pipe facilities are used for watering, with special provisions in place to ensure efficient irrigation. During the summer, these spaces are watered daily, reflecting the college's commitment to maintaining its environment. The college's efforts to preserve and enhance its open spaces are commendable, showcasing a strong dedication to sustainability and ecological balance.

Flora and Fauna Audit of Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur

Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur, is committed to maintaining a sustainable and eco-friendly campus environment. The flora and fauna audit is an integral part of the college's ecological management strategy. This audit aims to assess the current state of the campus biodiversity, identify areas for improvement, and promote practices that enhance the natural habitat within the college premises.

Flora: The college campus is home to a diverse range of plant species, contributing to its green and serene environment. Key observations from the flora audit include:

- **Tree Species:** The campus boasts a variety of tree species, including native and ornamental trees. These trees not only provide shade and aesthetic value but also play a crucial role in maintaining air quality and supporting local wildlife.
- Shrubs and Flowering Plants: Numerous shrubs and flowering plants are strategically planted around the campus. These plants enhance the visual appeal and contribute to the ecological balance by attracting pollinators such as bees and butterflies.
- Herbal Garden: A dedicated herbal garden exists within the premises, featuring medicinal plants that are used for educational purposes. This garden serves as a valuable resource for students studying botany and alternative medicine.
- Green Lawns and Open Spaces: Well-maintained lawns and open spaces provide recreational areas for students and staff. These green areas are used for various activities, including sports and cultural events, promoting physical well-being and social interaction.

Fauna: The college campus supports a variety of fauna, reflecting a healthy and thriving ecosystem. Key findings from the fauna audit include:

• **Bird Species:** The campus is a habitat for several bird species, both resident and migratory. Birdwatching activities are encouraged, fostering a connection with nature and promoting biodiversity awareness among students.

- **Insects and Pollinators:** A significant presence of insects, especially pollinators like bees and butterflies, indicates a healthy environment. These pollinators play a vital role in maintaining the ecological balance and supporting plant reproduction.
- **Small Mammals and Reptiles:** The campus is home to a few small mammals and reptiles, contributing to the biodiversity. Efforts are made to ensure their habitats are preserved and protected from human interference.

Conservation Efforts: The college has implemented several measures to conserve and enhance its flora and fauna:

- **Plantation Drives:** Regular tree plantation drives are organized to increase green cover and promote environmental awareness among students and staff.
- **Sustainable Practices:** Eco-friendly practices such as composting organic waste, using natural fertilizers, and minimizing the use of chemicals are strictly followed to maintain soil health and biodiversity.
- Awareness Programs: Educational programs and workshops on the importance of biodiversity and conservation are conducted regularly. These initiatives aim to instill a sense of responsibility and environmental stewardship in the college community.

Recommendations: Based on the audit, the following recommendations are proposed to further enhance the biodiversity of Raghuveer Mahavidyalaya:

- **Biodiversity Monitoring:** Establish a regular monitoring program to track changes in flora and fauna populations and assess the effectiveness of conservation efforts.
- **Habitat Enhancement:** Create additional habitats such as birdhouses, butterfly gardens, and water features to support a wider range of species.
- **Community Engagement:** Encourage community participation in biodiversity conservation activities, fostering a collaborative approach to environmental sustainability.

The flora and fauna audit of Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur, highlights the institution's dedication to maintaining a vibrant and sustainable campus environment. Through continued conservation efforts and the implementation of recommended practices, the college can further enrich its biodiversity and serve as a model for ecological stewardship in the educational sector.

Noise Audit

Macro Level

At a macro level, Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaunpur, benefits from its location of out of city that experiences low traffic noise. The college is situated on a site with expansive open grounds and an approach road that experiences minimal traffic. Although the surrounding agriculture areas have sparse vegetation, ensuring that students and staff are not significantly impacted in their daily activities. The proximity of the approach road, which sees minimal traffic, further contributes to the low noise environment. Our macro-level analysis confirms that the adverse effects of noise pollution on the college are minimal, yielding positive outcomes for the campus community.

Micro Level

On a micro level, the college premises are well-equipped to mitigate noise pollution. The ample open space within the campus is naturally adorned with large trees, which act as effective noise barriers. Additionally, The designated parking areas are strategically located near the entrance, minimizing noise within the central campus. The college does not employ any equipment that contributes to significant noise levels. Overall, the noise levels within the premises are low, reflecting a well-considered approach to maintaining a quiet and conducive educational environment.

Carbon Footprint Audit

Eco-friendly Commuting Practices

Based on data collection and discussions with staff, the following points were noted regarding eco-friendly commuting practices at Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala:

- **Ease of Commuting:** The college is in close proximity to public transport options, making it highly accessible and walkable for students and staff. This encourages the use of public transportation and reduces the reliance on private vehicles.
- **Parent Commute:** The college hosts two parent-teacher meetings annually, with a turnout rate of approximately 40-60%. This manageable frequency and turnout help in reducing potential carbon emissions associated with large gatherings.
- Vehicle Details: The college provides designated vehicle parking facilities. These provisions are currently adequate and are situated to minimize noise and emissions within the core campus area.

Through these practices, Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, demonstrates a commitment to reducing its carbon footprint and promoting sustainable commuting options. By continuing to encourage the use of public transportation and maintaining effective noise management strategies, the college ensures a positive impact on both the environment and the well-being of its campus community.

Heat Island Reduction

Raghuveer Mahavidyalaya, Thaloi, Bhikharipur Kala, Jaupur, has implemented several effective practices to mitigate the Heat Island Effect, which typically results from planning strategies that low local temperatures.

• **Exposed Roof Areas:** The top floor of the college buildings is meticulously clean and well-maintained. The roofs are painted white, a strategy known to reflect sunlight and reduce heat absorption. The maintenance staff and management have ensured there is no

weathering or degradation of the roof surfaces, and current practices are consistently upheld to maintain these conditions.

• **Exposed Non-Roof Hardscape Areas:** Pathways surround the premises, enhanced by natural and potted plants along their edges. Additionally, the campus boasts extensive garden spaces. These green areas contribute significantly to reducing heat absorption from hardscape surfaces. These measures effectively reduce the heat island effect, ensuring that the building roofs and surrounding site remain cool and contribute to a more comfortable campus environment.

Outdoor Light Pollution Study

The college has taken measures to minimize outdoor light pollution. The compound lights are designed to avoid upward emission, thus preventing unnecessary light spill into the night sky and reducing light pollution.

Universally Accessible Premises

According to the World Report on Disability (2011), approximately 180 million people in India, or 15% of the population, live with disabilities. In line with this, Raghuveer Mahavidyalaya, has made significant strides to ensure its campus is universally accessible:

- **Ramps and Handrails:** Ramps and handrails are installed along staircases, and staircases feature low-height risers to facilitate ease of movement.
- **Design:** The campus design includes wide, naturally ventilated passages and corridors, ensuring ease of access for everyone. Both doubly and singly loaded corridors are designed with fire safety in mind.
- **Resting Places:** Outdoor seating areas are strategically placed under trees, providing comfortable resting spots for especially abled students.

These thoughtful design elements ensure that the campus is welcoming and accessible to all students, including those with disabilities.

Fire Safety

Raghuveer Mahavidyalaya, has instituted comprehensive fire safety measures to ensure the well-being of all occupants:

- **Staircases:** Each floor features open staircases free from barriers, storage, or combustible materials, ensuring quick and safe evacuation routes in case of an emergency.
- **Classroom Ventilation:** Classrooms are designed with low-height windows, allowing for ample ventilation and natural light throughout the day, which contributes to a healthy and safe indoor environment.

These measures collectively enhance the fire safety and overall safety of the college, providing a secure environment for students and staff.

Survey Results:



(A) Total Response: 323

92.6% Students and 7.4% Teachers



(B)

क्या आपको लगता है कि आप और आपका कॉलेज पर्यावरण के प्रति सजग है? Do you think you and your college are environmentally conscious? ^{323 responses}



क्या आपने कॉलेज में पेड़ लगाने और पर्यावरण संरक्षण के लिए किसी अन्य कार्यक्रम में भाग लिया है? Have you participated in any other programs for tree planting and environment conservation in college? 323 responses



क्या आपको प्लास्टिक की उपयोगिता और उसके पर्यावरण पर प्रभाव के बारे में जानकारी है? Do you know about the usefulness of plastic and its impact on the environment? 323 responses





Positive Steps Taken by the College Towards Green Building and Good Maintenance

The College has implemented several initiatives to promote a green and well-maintained environment. Here are some key responses gathered from the study:

- **Clean Every Area**: Routine cleaning activities ensure that every part of the college is kept tidy and hygienic.
- **Greenery and Planting**: The campus is adorned with green plants, trees, and flowers, showcasing the college's commitment to maintaining a green environment.
- **Faculty Efforts**: The faculty is dedicated to maintaining the college buildings and organizing better waste management systems, including the strategic placement of dustbins.

- Environmental Awareness: Students are encouraged to plant trees, save water, and participate in activities such as speeches on environmental topics, with incentives provided to motivate their involvement.
- No Mobile Zone: Establishing areas where mobile phone usage is restricted to reduce electronic waste and promote focus on studies.

Positive Site Features

- **Ban on Plastic**: The college premises have restrictions on using plastic bags and products to minimize plastic waste.
- Accessibility: The premises are designed to be user-friendly, with features like kerb ramps near entrances and low-height handrails to aid mobility.

Recommendations for a Sustainable Habitat by SAFE

- Site Beautification
 - **Bird Facilities**: Provide drinking water and food facilities for birds visiting the college premises.
- Heat Island Reduction
 - **Cool Rooftops**: Painting terrace roofs with Cooltop can help lower the temperature of indoor spaces.
- Pollution Control
 - **Eco-Friendly Vehicles**: Encourage the use of battery-operated or lowemission vehicles by providing parking spaces with charging points, inspiring sustainable transportation practices.
 - **Bicycles as Rewards**: Award bicycles to top-performing students and staff as a gesture of appreciation and to promote eco-friendly transportation.
 - **Paperless Technologies**: Adopt paperless technologies in administrative functions to reduce paper usage.
 - **Carbon-Absorbing Plants**: Plant species such as Pine, Neem, Peepal, Bamboo, and Teak to enhance carbon sequestration and contribute to carbon neutrality.

By adopting these measures, the college not only promotes a greener environment but also fosters a culture of sustainability and environmental responsibility among its community members.

Onsight Visit Photographs:









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Dr. Ramesh Chandra Chairman



Dr. Shaleen Kumar Singh Coordinator

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Dr. Deepak Singh **Co-coordinator**