




N. N. College, Singhara, Vaishali



**GREEN AUDIT /  
ENVIRONMENT AUDIT  
REPORT 2022-23**

  
Principal  
N. N. College  
Singhara (Vaishali)



## Swargiya Kanhai Shukla Samajik Seva Sansthan-SKSSSS

### Certificate of Environmental Audit

This is to certify that N.N. College, Singhara, PS: Mahua, Dist. Vaishali has undergone a comprehensive environmental evaluation conducted by the Kanhai Shukla Samajik Seva Sansthan in accordance with national environmental standards and guidelines.

Upon thorough assessment of the institution's environmental practices, policies, and initiatives, it is affirmed that N.N. College:

1. Demonstrates a strong commitment to environmental sustainability and conservation.
2. Implements effective waste management practices, including recycling programs and waste reduction strategies.
3. Utilizes energy-efficient technologies and practices to minimize environmental impact.
4. Promotes environmental awareness and education among students, faculty, and staff.
5. Engages in initiatives to preserve biodiversity and natural resources within its campus and surrounding areas.
6. Complies with relevant environmental regulations and continuously seeks opportunities for improvement.

Based on these evaluations, N.N. College has met the criteria for environmental excellence and is hereby awarded this certificate as recognition of its dedication to environmental stewardship.

Issued this Date 25 of March, 2024,

Pradeep Kumar Mishra

Chief Executive Officer

Swargiya Kanhai Shukla Samajik Sansthan



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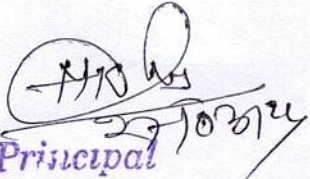
# Executive Summary

The future of humankind depends very much on our ability to change our lifestyles and agree to follow a low consumption pattern of living in terms of resources taken from the globe and return to a sustainable development path at the earliest. The opportunity window for restoring nature to its prolonged state of hosting life forms to flourish under its caring environs is according to scientists, very short and lasting only up to 2030. Within this time, with the willing actions of every citizen wherever they are, coordinated and directed actions should start and continue thereafter till a balancing stage is reached where moderate use of resources and mitigation actions for healing the hurts already inflicted, balance positively to a sustainable nature.

Eco friendly campus is a concept implemented in many educational institutions, all over the world to make them sustainable because of their mass resource utilization and waste discharge in to the environment. N.N. College believes that there is an urgent need to address these fundamental environmental problems and reverse the trends. The purpose of the audit was to ensure that the physical infrastructure and practices followed in the campus are in accordance with the Green Policy adopted by the institution.

It works on the several facets of Green Campus including Water Conservation, Tree Plantation, Waste Management, Paperless Work, and Alternative Energy. With this in mind, the specific objectives of the audit was to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards.

Initially a questionnaire survey was conducted to know about the existing resources of the campus and resource consumption pattern of the students and staff in the college. In order to assess the quality of water and soil, water and soil samples were collected from different locations of the college campus and analysed for its parameters. Collected data was grouped, tabulated and analysed. Finally a report pertaining environmental management plan with strength, weakness and suggestion on the environmental issue of campus is documented.

  
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# Introduction

Nirsu Narayan College, Singhara is permanent affiliated unit of Baba Saheb Bhimrao Ambedkar Bihar University, Muzaffarpur. It was established in the year 1980 to impart UG course in Arts, Science and Commerce faculty. The college has recognized under section 2(f) 12(B) of UGC 1956. The college run under Governing Body constituted by university. The College is constantly striving towards fulfilling its goal of providing higher educational opportunities to rural students from economically and socially disadvantaged classes and providing value-based education to ignite young minds to become responsible citizens. The College is making all efforts not only to literate but to equip the students with desired technical, conceptual, and human skills. The majority of the learners in region and adjoining regions belong to the most socio-economically backward section of the society.

Environmental audit or Green audit reflects evaluations that help us to identify environmental compliance and management system, implementation gaps, along with related corrective actions. Green audit is a useful tool to determine how and where the most energy or water resources are being used, the type and volume of waste generated and can then considerations be given on how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. Overall, it plays a vital role in imparting a better understanding of Green impact on campus to staff and students.

## Need for green audit

As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. In this context, it becomes imperative to adopt the system of the Green Campus for the Institutes which will lead to sustainable development. Besides, it also reduces a sizable amount of atmospheric carbon dioxide from the environment

## Objectives of the audit

- Understanding the current practices of sustainability with regard to the use of water and energy, generation of wastes, transportation, purchase of goods, etc.;
- Establishing a baseline of existing environmental conditions with focus on natural and physical environment;

- Creating awareness among students and staff concerning real issues of environment and its sustainability;
- To create a report that document baseline data of good practices and provide strategies and action plans towards improving environmental quality for future.

## Green Audit Report - 2022

# About the college

Nirsu Narayan College, Singhara, (Vaishali) was established in 1970 with the solemn view to torch the idea to provide education for its surroundings. Almost thousands of students have already been completed their course and provide their service to building nation by teaching students in various area of the nation. The college is committed to develop and foster the potentialities of its young students belonging to such families wherein fulfilment of basic needs is still a distant dream. Nevertheless, the college has been making untiring endeavours to contribute to academic discourses on pertinent contemporary issues of social relevance. The college boasts of its rich resources of various including a computer lab and the library treasures books and journals of international repute. All the departments have computer with internet facilities. The sprawling campus of the college is situated on the SH 49 and it is just approx. 33.7 Km away from district headquarter Hajipur and approx. 47.5 Km from Muzaffarpur.



The college aims to substantially contribute to the process of the nation and society by providing quality education & thereby enabling the students to become globally

competent. The devotion of the teachers supplemented by the rich library with a collection of books on various subjects provides a productive academic environment.

## Green Audit Report - 2022

The College offers job-oriented courses, extra-curricular activities of various clubs and technologically advanced facilities accessible to the faculty, the students and the support staff. Here, each individual is encouraged to step beyond the confines of academic and administrative disciplines to explore and intervene in the larger interests of the College community that thrives on participation and the desire to venture into newer vistas.

## Methodology

In order to perform green audit, the methodology that included different tools such as preparation of questionnaire, physical inspection and observation of the campus, and review of the documentation, interviewing key persons and data analysis, measurements and recommendations was adapted.

### Onsite Visit

Field visit was conducted by the Green Audit Team. The key focus of the visit was on assessing the status of the green cover of the Institution, their waste management practices and energy conservation strategies etc. The sample collection (water, air) was carried out during the visits. The water samples from bore water were taken and air samples from different places of the campus were collected. The sample collection, preservation, and analysis were done in the scientific manner as prescribed by the standard procedures.

### Focus Group Discussion

The Focus Group discussions were held with staff members and the management focusing various aspects of Green Audit. The discussion was focused on identifying the attitudes and awareness towards environmental issues at the institutional and local level.

### Energy and waste management

With the help of Teaching, Non- teaching staff, students, Administrative officer, Building Management Engineer and electrical Supervisor, the audit team has assessed the energy consumption pattern and waste generation, disposal and treatment facilities of

the college. The monitoring was conducted with a detailed questionnaire survey method. It was found that in order to promote green and clean environment the institution is

## Green Audit Report – 2022

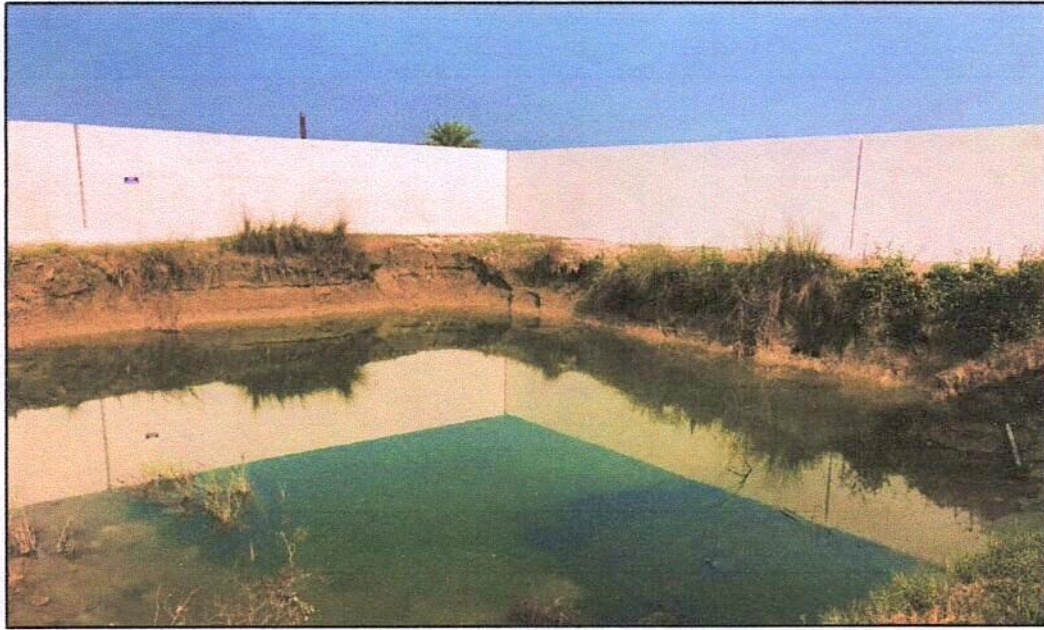
The study covered the following areas to summarize the present status of environment management in the campus:

- Water management
- Energy Conservation
- Waste management
- Bio-medical waste management
- Green area management
- Environmental Monitoring

### Water management

It was observed that the institution fulfils its requirement of water from submersible borewell and RO machine have been installed near faculty room, boys and girls common rooms and academic building and college offices.





## Energy Conservation

Solar panel was found install at the roof top of the college building to conserve energy. The electrical consumption of the college campus is being fulfilled through it.



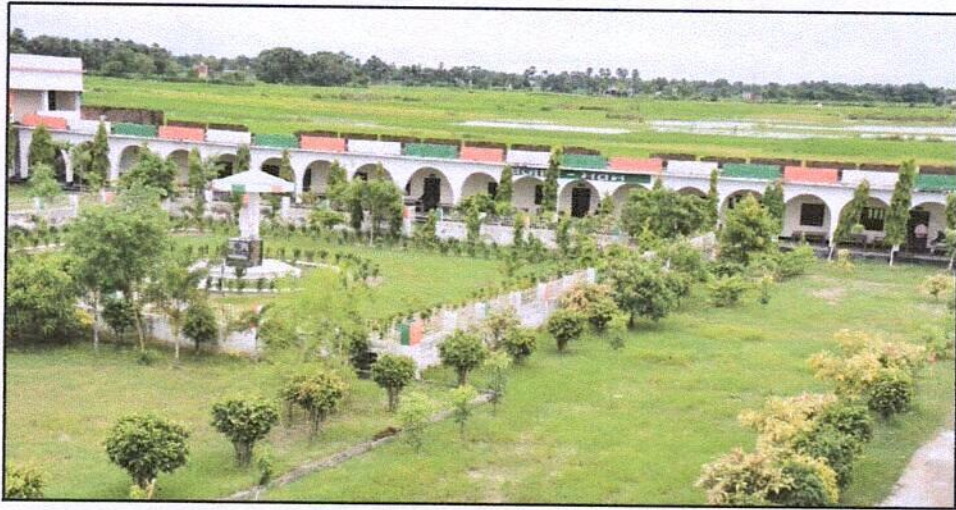


### **Green area management**

The campus has a total of 10.9 acres of land in which 7 acres (70%) is open green area having 110=112 big trees in the campus. That provides green environment in the campus. Apart from this the campus is situated in rural area which is well covered by green orchards, there is not a single industry around 5 kilo-meter radius. Therefore, this can be concluded that the college authorities take proper care of green area management.



*[Handwritten Signature]*  
Principal  
N. N. College  
Sarghara (Vaishali)



## Environmental Monitoring

Eco club has been formed with NSS student in the college and involved maintaining green coverage inside the campus. Apart from this Environment Protection Committee has been formed involving student union leadership, staff and management of the college who promotes environmental awareness among student.



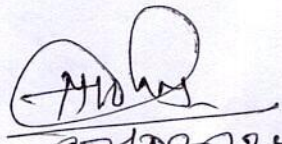
**Bio-**



### **medical Waste Management**

As the college is Co-Ed considering the need of girl students and lady teachers, a sanitary pad vending and disposal machine was found installed inside girls common room of the college that provide hassle free safe disposal bio-medical waste.



  
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## Conclusion

The environmental awareness initiatives taken by the management are substantial. The installations of solar water heaters, Usage of battery operated Vehicles practices are remarkable. Besides, environmental awareness programmes initiated by the administration proves that the campus is going green. The Herbal garden maintained by the College is highly appreciable. Few recommendations are added for waste management and waste reduction using alternate eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus and thus aid in a sustainable environment and community development.

## Suggestions:

This has been suggested that as the water is precious and to promote water conservation it is suggested that the management should construct roof top rainwater harvesting structures inside the campus. Soak pits needs to be constructed near water source so that waste water could flow and pass through it and prevent ground water contamination.

Considering 4500 students ultra-big garbage and waste container need to be kept at different key locations inside the campus. The garbage should be disposed in

## Acknowledgement

We are grateful to the management and committee members of N.N. College, Singhara, Vaishali to award this prestigious project on green auditing. Further we sincerely thank the college staff for providing us the necessary facilities and co-operation during the audit. This ample co-operation helped us a lot in making this audit possible and successful.



*Handwritten signature*

Signature & seal  
of  
Competent Authorities

*Handwritten signature*  
27/10/24  
Principal  
N. N. College  
Singhara (Vaishali)