



Centre for Environment and Life Care
Nurturing Lives. Sustaining Futures.



NETAJI SUBHAS INSTITUTE OF TECHNOLOGY, BIHTA, BIHAR

GREEN AUDIT REPORT 2022-2023

SEALED AND SIGNED

BY :- CENTRE FOR ENVIRONMENT AND LIFECARE

BY
Dr. Subhas
21/10/2023
Director

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📍 Jamshedpur



Centre for Environment and Life Care
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PRESENTED TO

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

BIHITA, BIHAR

Has been assessed by CENTRE FOR ENVIRONMENT AND LIFE CARE for the comprehensive study of environmental impacts on institutional working framework to fulfil the requirement of

GREEN AUDIT

The green initiatives carried out by the institution have been verified on the report submitted and was found to be satisfactory,

The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.

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22/05/2023 - 26/05/2023

Date of Audit

BY

Director

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CENTRE FOR ENVIRONMENT AND LIFE CARE

Executive Summary

The 'Green Audit' was carried to analyse environmental practices within the campus, which have an impact on the eco-friendly ambience of university. The primary goal of the green audit is to secure the best practices for environmental sustainability. It reduces the possibilities of health hazards and threats for the students of the campus. There are several norms and standards in the environmental management system, and the green audit helps to conform to the norms. The audit also helps identify the ideal protocols that develop a sustainable ecosystem on the campus.

The initiative taken by Netaji Subhas Institute of Technology (NSIT) to conduct a Green Audit of the campus is a commendable sustainable goal. The strategies followed were the preparation of questionnaires and subsequent action plans to implement the project.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation.

Questionnaires prepared to conduct the green audit were based on the guidelines, rules, acts, and formats set by the Government of India, Ministry of Environment and Forest, New Delhi, and Central Pollution Control Board, New Delhi. Questionnaires were prepared for solid waste, energy, water, hazardous waste, and e-waste. For audit purposes, analysis of suitable data is required, for the same study area is grouped into various Blocks and Departments. The audit was carried out for solid waste, electricity and energy, water and wastewater, illumination, noise level, and green inventory. It also indicates the green initiatives taken by universities to save environmental resources.

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1.1 Objectives of the audit

The objective of green audit was to understand the current practices of sustainability with regard to the use of natural resources, energy utilisation, generation of wastes and management in environmentally friendly way. Focus was on 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.

It analyzes the environmental practices within and outside of the departments and utilities, which will have an impact on the eco-friendly ambience.

The different steps under the green audit consist of – Water audit, waste disposal audit, energy audit, and environmental quality audit including illumination and noise level in the campus. With the green audit reports, the universities can also recognize cost-effective methods for waste management. It allows universities to set and promote an enhanced learning ecosystem and obtain the top grade. More than that, it helps in exhibiting a credible branding of the educational university.

1.2 Benefits of Green Audit:

- If Green Audit is enforced in an effective way, then there are many advantages that could be adopted from it.
- Recognize the cost saving methods through waste minimizing and managing strategies.
- Point out prevailing and forthcoming complications.
- Empower the organizations to frame a better environmental performance.
- Enhance the alertness for environmental guidelines and duties

1.3 Methodology of Green Audit.

- Formation of core team for green audit and Kick-off meeting and discussions.
- Primary data collection of energy, water and solar plant details / monitoring of environmental parameters such as noise level and illumination.
- Analysis of data and representation of data analysis.

1.4 Audit Participants

On behalf of NSIT

Sl No	Name	Designation/Departments
1	Dr Sheojee Singh	Director (NSIT, Bihta)
2	Dr Jyotirmayee Dalei	Dean Academics cum Director IQAC (NSIT, Bihta)
3	Mr Ramakant Singh	Dean Administration
4	Mr A.P Singh	Finance Officer (NSIT, Bihta)
5	Mr B.K Mandal	Assistant professor (Civil Engineering)
6	Mr Mithilesh Kr Jha	Assistant professor (Civil Engineering)
7	Mr Pawan Kumar	Special Invitee (PRO)(NSIT, Bihta)

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On behalf CELC

Sl No	Name	Position	Qualifications/Experience
1	Ajit Kumar Singh	Lead Auditor	M.Sc., PGDEPCT, PGDEMS, Lead Auditor ISO 14001: 2015, 20 years' experience in EMS & Compliance.
2	Dipak Soni	Co-Auditor	B.Sc. (IT) Project Manager. Working in social and environment sector last 5 years.

1.5 Onsite Visit

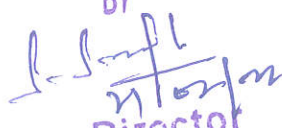
Audit Stage Green Audit was done with the help of co-associates involving different student groups, teaching, and non-teaching staff. Data collection was done in the sectors such as Energy, Waste, Green Area, and Water use. NSIT records and documents were verified several times to clarify the data received through surveys and discussions.

1.6 Focus Group Discussion

The scope and objectives of the audit and pre-audit discussions were held on the basis of green initiatives taken and the current scenario of the Institute campus. This meeting is an important prerequisite for the green audit because it is the first opportunity to understand the concerns. The meeting was an opportunity to gather the information that the audit team can study before arriving on the site. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself. The pre-audit meeting was conducted successfully and necessary documents were collected directly from the Institute before the initiation of the audit processes. The actual planning of audit processes was discussed in the pre-audit meeting. An Audit team was also selected in this meeting with the help of staff and the Institute management. The audit protocol and audit plan were handed over at this meeting and discussed in advance of the audit itself.

1.7 Management Commitment

The Management of the NSIT has shown a commitment towards green auditing during the pre-audit meeting. They were ready to encourage all green activities. It was decided to promote all activities that are environmentally friendly such as awareness programs on the environment, planting more trees on the campus etc. after the green auditing. The management of the NSIT was willing to formulate policies based on a green auditing report.

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2.0 About Netaji Subhas Institute of Technology (NSIT)

Netaji Subhas Institute of Technology established in 2007 by Shri. M. M. Singh, having the first batch started in 2008 has its magnificent Campus at Amhara, Bihta in the district of Patna. NSIT offers 5 (five) UG programs in Engineering affiliated to Bihar Engineering University (BEU), and 2 (two) UG programs of BBA and BCA affiliated to Aryabhatta Knowledge University (AKU). It has become "an effective source of technocrats to the nation" with its unique infrastructural facilities of 4,00,000 sq. ft of built-up area on approximately 18 acres of green luster land. The ambience of the campus is one of the best in the state of Bihar.

NSIT offers the Education with the latest technologies available in the present area. Campus facility includes faculty and staff residences, student hostels, co-operative mess and a sports complex. The campus has main administrative block, digital library, well-equipped laboratories, workshop, auditorium, conference room, seminar room and a modern canteen.

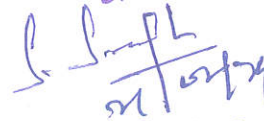
The Institute has one of the largest student populations amongst engineering Institutes in Bihar. Currently more than 1000 students are pursuing their higher studies in the Institute. The Institute lasts to be the most preferred destination not only for the students of the state but also from various parts of the country. NSIT has a strong alumni base of over 6500 students working in different sectors and playing their part in the development of the nation.

Uniqueness of Netaji Subhas Institute of Technology

- The Institute facilitates the placement and training activities with the help of industry experts and corporate trainers to prepare the students industry-ready, apart from providing placement and training right from First year in the regular schedule for the Distinctive Syllabus framed.
- Over 90% of the eligible students are placed in reputed companies such as Ultra Tech Cements, Indus Tower, Premier Energies, Subros Limited, Infosys, Tata Consultancy Services, Capitalvia Finance, etc., with a salary package ranging from 2.5 LPA to 5 LPA.
- To bridge the gap between industry expectations and academics, NSIT has signed Memorandums of Understanding (MoU) with several leading industries and premier institutes.

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2.1 Vision & Mission

2.1.1 Vision

- The Promoting Body of the Institution is committed to help the Indian industries in enhancing their competitiveness by producing leaders, entrepreneurs, and managers equipped with the diverse state-of-the art technical knowledge.
- It will contribute towards the professional growth and management of Indian industries in general and industries of Bihar in particular through acquisition of specialized knowledge and skills and by integrating classroom knowledge with practical experience.
- It will encourage creativity, innovations, and quality in all its endeavours.

2.1.2 Mission

- To promote Undergraduate, Training and Research in Engineering, Applied Sciences, Management Science, Humanities and Social Sciences with multi-level entry.
- To be an Institute of Co-operative Programs of Education with Industries and R&D organizations for offering tailor-made courses.
- To become a Research Institution with focus on Technology Transfer.
- To support a Science and Technology Entrepreneurship Park to promote the Technology Transfer programs.

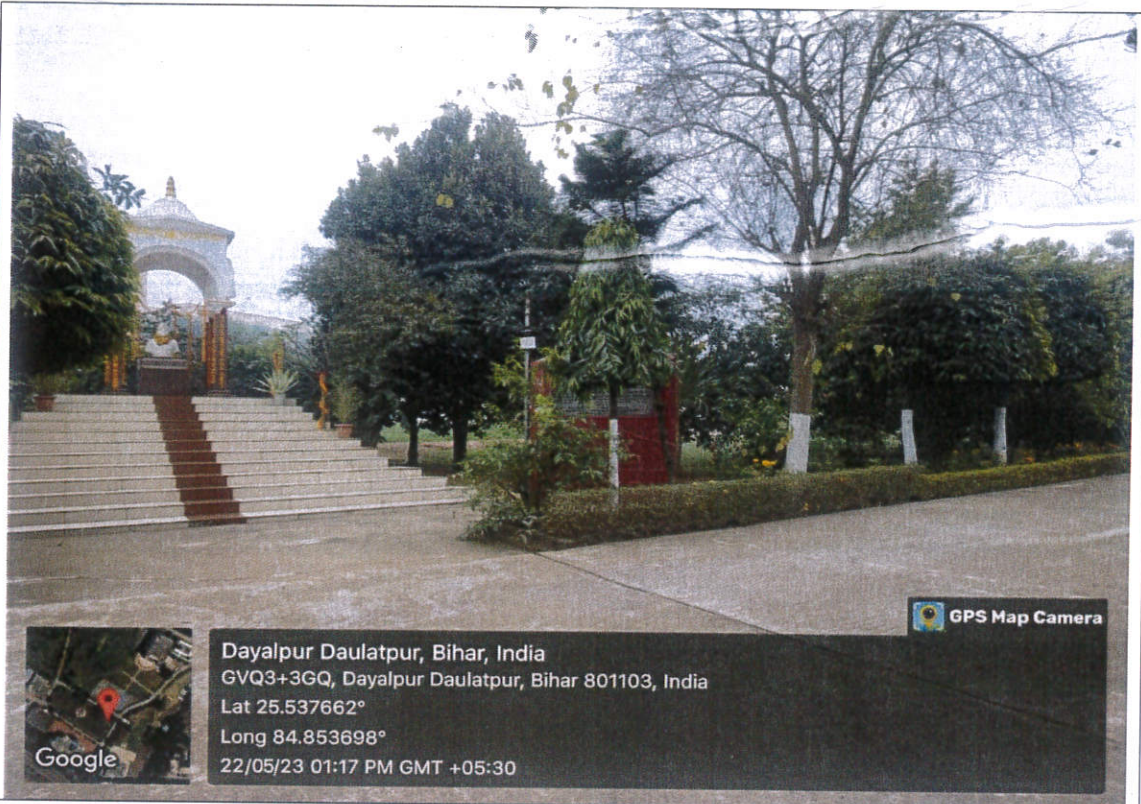
2.2 Geographical Location

NSIT has the huge infrastructure of approximately 4 lakh sq. ft of built-up area on approximately 18.00 Acres of Land at Amhara, Bihta, Patna. NSIT offers the education with the latest Technologies available in the present area. (i.e. Wi-Fi Campus, Computer Centre, Digital Library etc).

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2.2.1 Buildings/blocks

There are 8 blocks in the campus namely New building Block A, New building Block B, BCA /BBA Wing, Boys Hostel, Girls Hostel, Polytechnic Block, Workshop Block, Civil Block.

2.2.2 Facilities available in Institute.

The computing resources at NSIT include latest servers and workstations, a state-of-the-art campus network and an Internet connection so that the students can leverage the power of IT and experience the e-learning process, which is both informative and interesting. From this year every student has to be equipped with a laptop and we shall provide round the clock access to intranet as well as internet. Entire academic activities such as e-bulletin board, e-discussion forum, feedback, online leave application, course outline class schedule are made available to the faculty, students and the administration on their desktop. Information Technology is an indispensable resource for the enhancement of the skill of the students.

Information Technology is an indispensable resource for the enhancement of the skill of the students. It is unarguably the defining force of this millennium. The campus of the NSIT is totally equipped with latest technology. The initial focus of being system friendly has now resulted in a virtual flood of e-initiatives. Beginning with the up-gradation of infrastructure like Wi-Fi campus, supplemented by workshops, seminars, live projects and setting up a centre for e-business that aims to facilitate industry academic interface, thus enabling the creation of whole new batch of tech-savvy managers with the skills to integrate technology solution to workplace environment.



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Library is the soul and nerve centre of any academic and research organization. The library of NSIT is located in the heart of the institution and therefore is easily accessible to the departments, classrooms and hostels. The library occupies a total area of about 10,000 sq. ft. It can accommodate 70 users at a time. The books both technical and general, journals, magazines and their back volumes, DVDs are available for the use of faculty and students of the institute. NSIT Library also subscribes to 60 National and 19 International reputed journals & Magazines. Library Facility is open to all students and faculty members and is continuously updated with latest books, journals. The Institute always strives to provide the latest and best collection of books, journals, online sources, dissertations etc to the students for course work and research.

NSIT has a fully-fledged product development laboratory. The lab has all facilities which provide a clear-cut idea of the processes behind the Electronic Product Design. The lab caters to the requirement of students for carrying out mini-project and major project in the department itself NSIT has an exclusive workshop facility for practical as well as project work and is equipped with modern machines and equipment. Students can perform practical in carpentry, welding, sheet metal, foundry, bench work and fitter shop. Machine shop is equipped with lathe machine, shaper machine, milling machine, drilling machine, and grinding machine. In addition, efficient and strong technical assistance are available to students and faculty for providing expert help.

Today with the help of Internet, one can easily obtain the Institute degree. There is a big debate whether online classrooms are beneficial or not. In this regard, there are many people who argue that online classrooms are very good. But on the other hand, many people are against these virtual classes. On the other hand, most of students found traditional classroom most convenient because they think that it is better to learn when listening to someone speak instead of just reading online. Institute education also helps us in developing our skills in reasoning, reflection, tolerance and communication. With the help of these skills, we can easily resolve the conflicts as well as can solve crisis that may occur in the course of a personal or professional life. Institute education can help a student in understanding the viewpoints of other people.

NSIT hostel is a home away from home. There are separate hostels for boys and girls with round the clock wireless internet and intranet connectivity.

Each room has attached bathroom and fitted with cupboards, chairs, tables, beds, light and power points. A weekly laundry service is provided. Each hostel has its own common room where students can relax and watch television. The Institute is residential in nature. The arrangement is made to develop brotherhood among the students in order to have peace and harmony in the campus.

The Institute has its own fleet of buses to cater to the transportation needs of its students, staff members and visiting guests. These buses serve as the link between

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the campus and the city. The Institute provides transport facility to the faculties, students and support staffs from the city to the Institute campus and back on working days and special occasions.



Canteen

Being away from home doesn't necessarily mean you can't have food that tastes as good as the stuff dished out from mom kitchen. The students may not readily agree to that, but the fact is, at NSIT you can have all kinds of food in the canteen. In addition to satisfying, one's hunger and thirst, lot of serious discussion on topic of current interest happen here. You will find many students revising their interpersonal and communicative skills over a cup of tea and coffee.

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Institute Cafeteria



Bus Parking

3.0 Green Audit

3.1 Questionnaires

Sl No	Audit Questions	Answers/Remarks
1.1	General information	
1	Does any Green Audit conduct earlier?	No.
2	What is the total strength (people count) of the Institute?	Approx. 100
3	What is the total number of working days of your campus in a year?	200
4	Where is the campus located?	Bihta
5	Municipal waste, Sewer line, waste water managed by?	Bihta Nagar Parishad
1.2	WASTE MINIMIZATION AND RECYCLING	
1	Does your institute generate any waste? If so, what are they?	Solid waste.
2	What is the approximate amount of waste generated per day? (in KG approx.)	150 kg
3	How is the waste generated in the institute managed? By Composting, Recycling, Reusing, Others (specify)	Single use plastic is banned on the campus. Composting is done for horticulture waste management. Solid waste (Both dry and wet) is managed by segregation in recycle. Paper waste is sent to scrap vendor periodically.
4	Do you use recycled paper in institute?	Yes, NSIT collaborates with third party recycle vendor.

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4	Do you use recycled paper in institute?	Yes, NSIT collaborates with third party recycle vendor.
5	How would you spread the message of recycling to others in the community?	Seminars and webinars for students and faculty Nukkar-Natak by Students to increasing awareness. Various campaigns for awareness are organised by students.
1.3	GREENING THE CAMPUS	
1	Is there a garden in your institute?	Yes
2	Total number of Plants in Campus?	Approx 800 ,Full Grown Trees, Small Trees, Hedge Plants.
3	How many Tree Plantation Drives organized by campus per annum?	Yes. No. of plantation drives in last years.
4	Is there any Plant Distribution Program for Students and Community?	Yes
1.4	WATER AND WASTEWATER MANAGEMENT	
1	Sources of water	Ground water.
2	Water usage details.	Drinking, Gardening Kitchen & Toilets.
3	How does your institute store water? Are there any water saving techniques followed in your institute?	Sump tank and Overhead Water tanks.

3.2 Data analysis and final report preparation

Proper analysis and presentation of data produced from work is a vital element. In the case of a green audit, the filled questionnaires of the survey from each group were tabulated as per their modules, in Excel spreadsheets. The tabulated data is then used for further analysis. For a better understanding of the results and to avoid complications, averages, and percentages of the tables were calculated. A graphical representation of these results was made to give a quick idea of the status. Interpretation of the overall outcomes was made which incorporates all the primary and secondary data, references, and interrelations within. Final report preparation was done using this interpretation

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

As part of green audit of campus, the Green Audit Assessment Team has carried out the environmental monitoring of campus. This includes Illumination, Noise level of the class rooms. It was observed that illumination and ventilation is adequate considering natural light and air velocity present. Noise level in the campus is well below the limit.


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3.2.1 Air Quality:

The air quality being monitored by the local authorities of the township. The campus is situated at Bihta, Patna. The air quality index –

Bihta air quality index (AQI) forecast

Pollution level	Wind
Moderate 97 AQI	13.5 km/h

3.2.2 Illumination level

In order to improve education environment, classrooms need a good lighting. A good lighting makes the students feel safe, improves learning. In addition to this strengthen the schools brand value. In many studies stated that there is a close relation between lighting and the performance of the students.

250 lux light level is sufficient in classroom where students spend most of their times and focus on learning. In order to draw attention to the area where the teacher is located, to contribute to the students' concentration of 750 lux light level can be done here. An illumination study was carried in different class rooms with value of 365 to 585 lux.

3.2.3 Noise Level

The human ear is constantly being assailed by man-made sounds from all sides, and there remain few places in populous areas where relative quiet prevails. There are two basic properties of sound: Loudness and Frequency.

Loudness is the strength of sensation of sound perceived by the individual. It is measured in terms of Decibels. A whisper about 20 dB, library place 30 dB, normal conversation about 35-60 dB, heavy street traffic 60-80 dB, boiler factories 120 dB, jet planes during take-off is about 150 dB, rocket engine about 180 dB. The loudest sound a person can stand without much discomfort is about 80 dB. Sounds beyond 80 dB can be safely regarded as Pollutant as it harms hearing system. The WHO has fixed 45 dB as the safe noise level for a city. For international standards a noise level up to 65 dB is considered tolerate. Loudness is also expressed in sones. One sone equals the loudness of 40 dB sound pressure at 1000 Hz. Frequency is defined as the number of vibrations per second. It is denoted as Hertz (Hz).

Noise level meter Lutron was used to measure the noise level at different locations in the university campus.

Sl No	Locations	Sound level (dB)
1	At court yard of admin building	63 dB
2	At Main Gate of Girls hostel	62 dB
3	At Library	61 dB
4	In office entrance area	68 dB

3.2.4 Water management

Water is one of the most important elements in our environment. The main uses of water in university are for drinking, cleaning, gardening, food preparation, recreational purposes, in laboratories, and for bathroom.

Water quality testing is important because it identifies contaminants and prevents water borne diseases. Drinking or using contaminated water can result in severe illness or death. That is why it is important to NSIT that drinking water is safe, clean and free from bacteria and disease. The parameters for water quality are determined by the intended use. Work in the area of water quality tends to be focused on water that is treated for human NSIT, or in the environment.

The source of water is ground water. Total 07 Nos. of borewells are in campus. The water being stored in overhead tanks and supplied for different purposes. The buildings are attached to each other so, the storage tanks are installed at top of building. Approx 20 Nos of tanks are installed with capacity of 2000 litres each.

The average water consumption per month is approx. 300 KL/month.

3.2.5 Drinking water

The water used for drinking purposes is clean and well-maintained. Total 16 numbers of RO units are Installed in the campus and available on all floors of the NSIT to provide safe drinking water.

Water Quality Assessment Water samples from the NSIT were collected and analysed for its quality parameters. The major parameters analysed include colour, pH, Total dissolved solids, and total suspended solids.

Microbial analysis Worldwide, water-borne infections are a major contributor to illness and fatalities. The protection of the public's health depends on routine microbiological testing of drinking water sources, recreational waters, and environmental waters.

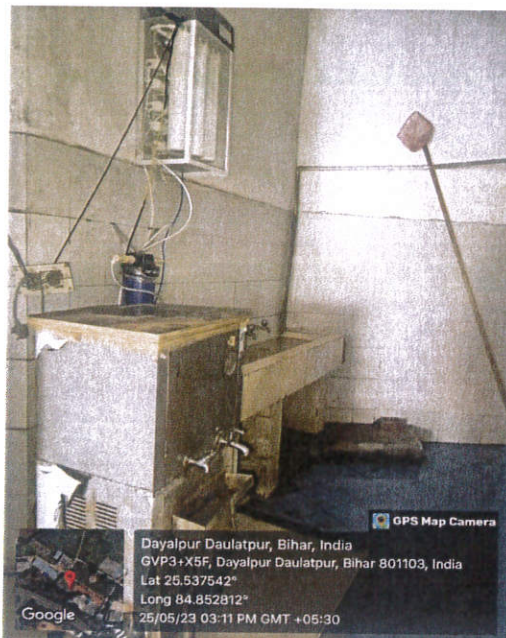
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Water sources and RO with water cooler at NSIT Campus

3.2.6 Rain Water harvesting system

The Institute is looking for study of Rain water harvesting system with recharge pit inside the campus.

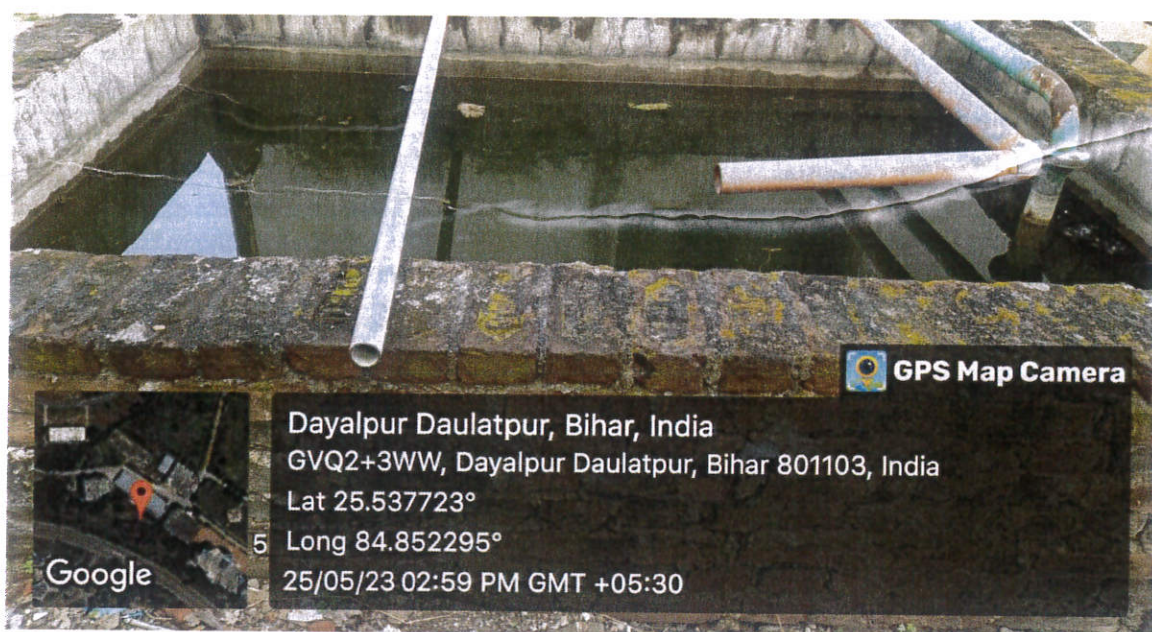
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3.2.7 Energy Conservation

This indicator addresses energy NSIT, energy sources, energy monitoring, lighting, appliance, natural resources. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

Monthly average energy consumption of NSIT 2500 KWh/month.

POWER CONSUMPTION		
	Month	KWh
1	December 2023	2360
2	November 2023	2133
3	October 2023	3063
4	September 2023	3090

Power generation by Generator at Campus:

125 KVA Cummins (2 No.).

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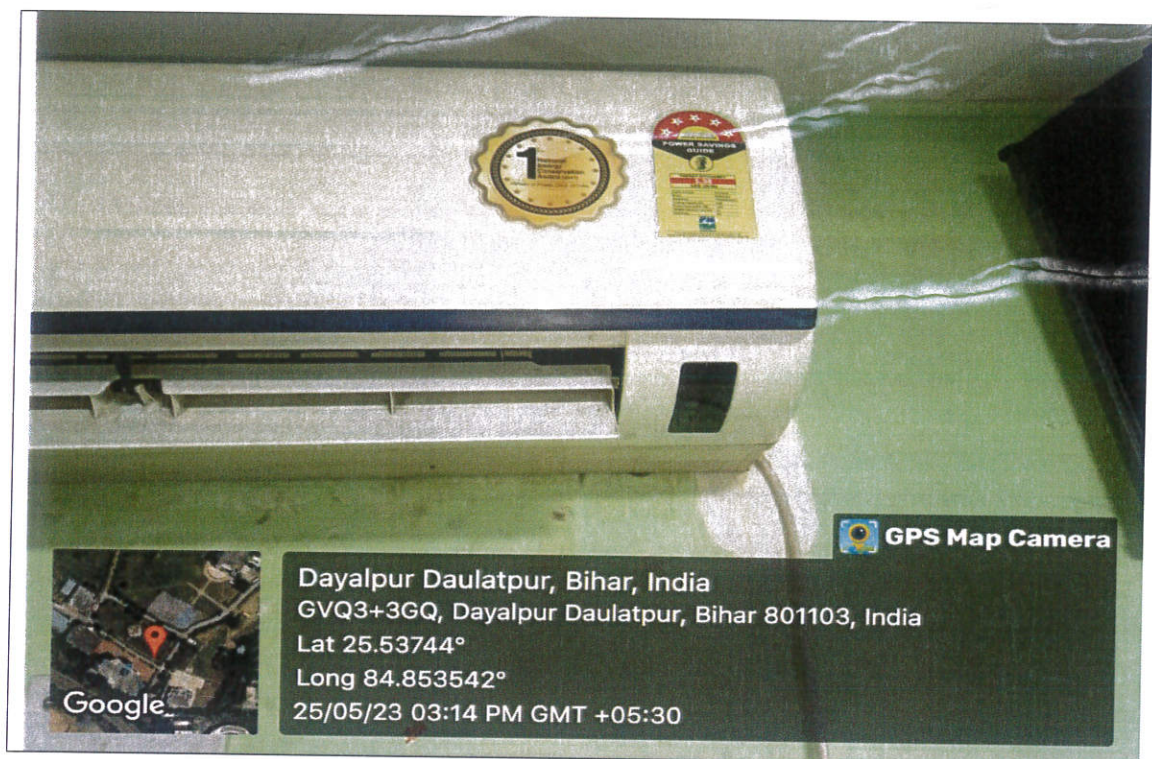
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Electrical equipment at campus.

Sl No	Equipment	Watt	Quantity
1	Fan	75	345
2	LED Tube lights	18	450
3	General Tube lights	36	NIL
4	Centralized Air Conditioners	-	4
5	Air Conditioners	1.05 T	2
6	Computer	140-150	411
7	Water cooler	1200	11

3.2.8 Solar Energy

A current study is underway to assess the potential of solar energy within a given space. The investigation aims to determine the feasibility of installing a solar energy system based on the available space and its corresponding energy-capturing capabilities. The analysis involves an examination of the spatial characteristics to optimize the placement and efficiency of the solar energy infrastructure. The findings from this study will guide the implementation of a solar energy system tailored to the available space, ensuring optimal utilization of solar resources.

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3.2.9 Waste Management

The NSIT is aware of the fact that proper waste management is one of the key necessities for a well-defined ecosystem. It is one of the important pillars for proper campus development. The NSIT works on the mission of "Clean and Green Campus" which involves proper management of solid waste, liquid waste, Biomedical and E-Waste management. The NSIT is working in collaboration with various NGOs as well which provides a road way and new initiatives are lined up to keep the momentum and the mission energized. Various ingenuities underway inside the campus are:

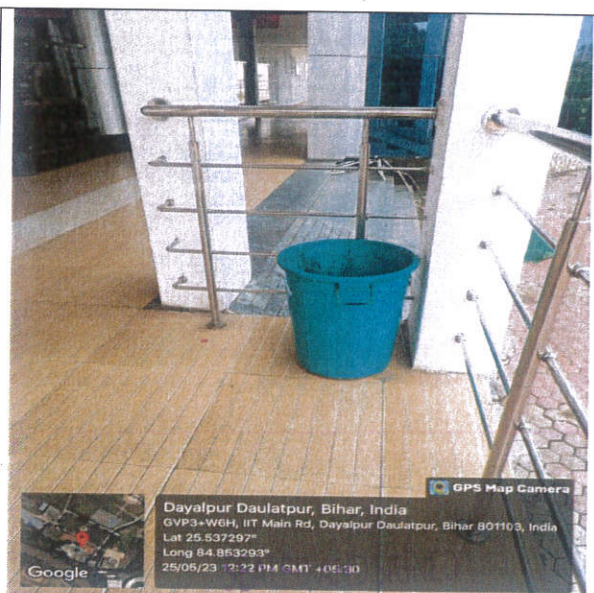
Various waste collection storage containers are installed at some points inside the campus and the students are encouraged to identity and dispose off the wastes at the appropriate places.

A group of utility men are engaged in the campus who are well trained with the basics of waste segregation and management.

Waste management awareness drives are organized at regular intervals amongst the students of the university.

The nearby villages are also made conscious of the waste management basics and are encouraged to act accordingly.

The management of waste generated in the campus is in lines with the basic waste management strategy of 3R's: **Reduce, Reuse and Recycle** i.e., Reduce the amount of waste generated, Reuse everything to its maximum after proper segregation and cleaning and keeping things which can be Recycled aside and are thereafter handed over to appropriate agencies.



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3.2.10 Solid waste management:

Solid wastes include both the biodegradable and non-biodegradable items. The biodegradable wastes generated in the campus are vegetable peels, dry leaves, food wastes etc. These are segregated and serve as excellent bio-fertilizers for the beautiful garden in the campus. Minimal or no use of polythene bags in the campus is practised to NSIT plastic free campus. To promote no use of single use plastic NSIT had issued notification and displayed at strategic locations.

Use and throw plastic cups and plates in the Campus café are replaced by either steel plates or earthen cups to reduce wastes.

The food wastes and non-biodegradable waste are also separated in separate bins marked for the purpose. The biodegradable wastes undergo composting into a pit of dimensions 2m X 2m X 2m so that they can be converted into organic wastes for further utilization.

Waste generated from tree droppings and lawn management are major solid wastes generated in the campus. Separate dustbins are provided for Bio-degradable and Plastic waste in order to segregate them at the source itself. Metal waste and wooden waste is stored and sent to authorize scrap agents for further processing. Glass bottles are reused in the laboratories. The NSIT has separate bins to collect biodegradable and non-biodegradable waste generated in the campus. Regular meetings are conducted with ground staff regarding the cleanliness of the campus and proper disposal of waste.

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3.2.11 E-waste management

E-waste is generated when the electronic devices are discarded after they are out of service and their life time is exhausted. The E-waste generated in the campus are mainly the out of use electronic devices like computer systems, keyboards, electronic kits, battery cells, calculators, CDs etc. They are systematically collected and sold out to for appropriate disposal. The purpose of this partnership in compliance with E-Waste Management) Rules, 2016. The partnership was made to pick, transport, carry and recycle/ dispose of the E-Waste as per norms prescribed by the government authorities from time to time.

3.2.12 Green area management

The open area of Institute campus is immensely diverse with a variety of tree species performing a variety of functions. Most of these tree species are planted in different periods of time through various plantation programmes organised by the university and have become an integral part of the institution. The trees of the Institute have increased the quality of life, not only the Institute fraternity but also the people around of the university in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Many species of birds are dependent on these trees mainly for food and shelter. Nectar of flowers and plants is a favourite of birds and many insects. Leaf – covered branches keep many animals, such as birds, out of reach of predators. Different species display a seemingly endless variety of shapes, forms, texture and vibrant colours. Even individual trees vary their appearance throughout the course of the year as the seasons change. Thus, the Institute has been playing a significant role in maintaining the environment of its surrounding areas.

Table: List of tree species at all campuses -

SI No	Common Name	Botanical Name	Uses
1	Coconut tree	Cocus nucifera	Anti-microbial
2	Mango tree	Mangifera indica	Anti-bacterial, Anti-Fungal
3	Ashoka Tree	Saraca asoca	Blood Disorder Tumor
4	Bottle palm	Hyophorbe Lagercaulis	Anaemia
5	Guava Tree	Psidium Guajava	Diabetes
6	Hoop Pine	Araucaria Cunningham	Flooring
7	Croton	Codiacum Variegatum	Biofuel
8	Belly Flower Plant	Jasminum Sombac	infections
9	Rose	Rosaceae	Anxiety
10	Lemon	Citrus Limon	Anti-cancer Anti-Oxidant

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NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

AMHARA, BIHTA PATNA



75
Azadi Ka
Amrit Mahotsav

MEGA TREE PLANTATION DRIVE



3.2.13 Use of Bicycles:

At NSIT The students and non- teaching staff in and around the campus commute to Institute by bicycles. The Institute has constructed a cycle shed to safeguard their vehicles. This transport pooling is a greening initiative by Institute to avoid environmental pollution and reduce Carbon foot printing Levels. The pathways in Institute are laid with provision paver block for rainwater to seep through easily. This enables the easy recharge of ground water.

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3.2.14 E - communication

All the Departments of the Institute, Examination cell, and laboratories are very well connected with a good and efficient LAN network. Hence all the inter office correspondence is done through email. This reduces the usage of papers. The e-governance is implemented. Institution implements e-governance covering following areas of operation.

Particulars(e-governance)
Software Academia
Administration
Finance and accounts
Student Admission and support
Examination

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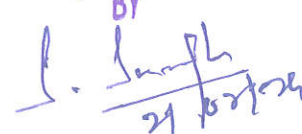
4.0 Conclusion

This audit involved discussions, questionnaire with all the teams, interactions with key personnel on wider range of issues related to Environmental aspects. The Institute is considering the environmental impacts of most of its actions and makes an intensive effort to act in an environmentally responsible manner.

Some of findings are –

- LED lights/tubes are fitted in class rooms/lecture halls and many locations.
- Solid waste being segregated and collected and accordingly recycling/disposal being done.
- Study on Rain water harvesting system is in pipeline.
- Generators are fitted with acoustic chambers.
- Good greenery and land scaping done inside campus.

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5.0 Recommendations

Solar Power System Installation:

- Implement a solar power system to harness renewable energy efficiently.
- Assess the campus space for optimal placement of solar panels.

Rainwater Harvesting

- Introduce rainwater harvesting from rooftop runoff to enhance water conservation.
- Utilize harvested rainwater for non-potable purposes, reducing reliance on external water sources.

Biogas Unit Implementation:

- Introduce biogas units for responsible disposal of biodegradable and food waste.
- Utilize the generated biogas as an eco-friendly energy source for various campus needs.

Promotion of Eco-Friendly Products:

- Advocate for the use of eco-friendly products among students, staff, and within campus facilities.
- Encourage the adoption of recycled paper to minimize environmental impact.

Paper Waste Management:

- Develop a systematic approach for managing paper waste.
- Shred, pulp, and recycle materials like answer sheets, old bills, and confidential reports after their preservation period.

Switch-Off Drills:


- Conduct regular switch-off drills to promote energy conservation.
- Raise awareness among the campus community about the importance of turning off lights and electronic devices when not in use.

Scheduled Electricity Shutdown:

- Implement a practice of shutting down electricity from the main building supply after occupancy hours.

Plantation Management:

- Periodically review the list of trees planted in the campus garden.
- Allot numbers and labels to each tree, maintaining comprehensive records to track growth and health.

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भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises



Udyam Registration Number : UDYAM-JH-22-0006337

Type of Enterprise	MICRO	Major Activity	TRADING [For availing benefits of Priority Sector Lending(PSL) ONLY]
Type of Organisation	Proprietary	Name of Enterprise	PM BHARTIYA JAN AUSHADHI KENDRA ADITYAPUR / CENTRE FOR ENVIRONMENT AND LIFE CARE
Owner Name	SHRI AJIT KUMAR SINGH	PAN	AXLPS2094J
Do you have GSTIN	Yes	Mobile No.	9835102648
Email Id	ajit19725@yahoo.com	Social Category	General
Gender	Male	Specially Abled(DIVYANG)	No
Date of Incorporation	15/10/2017	Date of Commencement of Production/Business	15/10/2017

Bank Details

Bank Name	IFS Code	Bank Account Number
Ujjivan Small Finance Bank	UJVN0003354	3354120040000154

Employment Details

Male	Female	Other	Total
2	0	0	2

Investment in Plant and Machinery OR Equipment (in Rs.)

S.No.	Financial Year	Enterprise Type	Written Down Value (WDV)	Exclusion of cost of Pollution Control, Research & Development and Industrial Safety Devices	Net Investment in Plant and Machinery OR Equipment[(A)-(B)]	Total Turnover (A)	Export Turnover (B)	Net Turnover [(A)-(B)]	Is ITR Filled?	ITR Type
1	2021-22	Micro	0.00	0.00	0.00	2112540.00	0.00	2112540.00	Yes	ITR - 4
2	2020-21	Micro	1500000.00	200000.00	1300000.00	1816744.00	0.00	1816744.00	Yes	ITR - 4

Unit(s) Details

SN	Unit Name	Flat	Building	Village/Town	Block	Road	City	Pin	State	District
1	PM BHARTIYA JAN AUSHADHI KENDRA	House No.N204	Road no.2 Kalpanapuri	Adityapur	Adityapur	Road no.2	Jamshedpur	832109	JHARKHAND	SERAIKELA-KHARSAWAN
2	CENTRE FOR ENVIRONMENT AND LIFE CARE	PLOT NO N 204	SONA SADAN	KALPANAPURI	-	ROAD NO 2	ADITYAPUR	832109	JHARKHAND	SERAIKELA-KHARSAWAN

Official address of Enterprise

Flat/Door/Block No.	House No.N 204	Name of Premises/ Building	Kalpanapuri
Village/Town	Adityapur	Block	GAMHARIA
Road/Street/Lane	Road no.2	City	JAMSHEDPUR

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State	JHARKHAND	District	SERAIKELA-KHARSAWAN , Pin : 832109
Mobile	9835102648	Email:	ajit19725@yahoo.com
Latitude	22.785773	Longitude:	86.1530215

National Industry Classification Code(S)

SNo.	Nic 2 Digit	Nic 4 Digit	Nic 5 Digit	Activity
1	47 - Retail trade, except of motor vehicles and motorcycles	4772 - Retail sale of pharmaceutical and medical goods, cosmetic and toilet articles in specialized stores	47721 - Retail sale of pharmaceuticals, medical and orthopaedic goods and toilet articles	Trading
2	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74909 - Other professional, scientific and technical activities n.e.c.	Services

Are you interested to get registered on Government e-Market (GeM) Portal	Yes
Are you interested to get registered on TReDS Portals(one or more)	Yes
Are you interested to get registered on National Career Service(NCS) Portal	Yes
Are you interested to get registered on NSIC B2B Portal	Yes
Are you interested in availing Free .IN Domain and a business email ID	Yes
District Industries Centre	SERAIKELA-KHARSAWAN (JHARKHAND)
MSME-DFO	RANCHI (JHARKHAND)
Date of Udyam Registration	03/11/2022
Date of Printing	13/12/2023

IEC Details	
IEC Number	
IEC Status	Inactive
IEC Registration Date	
IEC Modification Date	

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22/12/23
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Certificate



This is to certify that
Ajit Kumar Singh
has successfully completed
Combined Internal Auditor Course
Covering
ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007
following four days training
on 21st – 24th February 2012
at Kolkata
delivered by
BSI Training

Certified by:

Shamiracini

Date:

22nd March 2012

Certificate No:

CM11030-1201-0017



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22/03/24
Director
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