

ENVIRONMENT AUDIT REPORT

2019-2020

16/September/2019



Established by Govt. of U.P. u/s 2(f) of UGC Act, 1956 vide U.P. Act 22 of 2010.

Invertis University

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ENVIRONMENT AUDIT ASSESSMENT TEAM

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1. INTRODUCTION

An environmental audit is a type of evaluation intended to identify environmental compliance and management system implementation gaps, along with related corrective actions.

Environmental audit is defined as basic management tool which comprises a systematic, documented, periodic and objective evaluation of how well organization, management systems and equipments are performing.

A good environment management policy requires that there should be a constant effort to analyze and monitor various industrial working system and processes to generate and transmit this information for the inspecting authority such as exercise which generates necessary information on analysis of pollution being generated or will be generated and completion of annual estimate has been termed as environmental audit.

Each spring the Environmental Science and Policy completes a campus environmental and sustainability audit with the goal of providing Invertris with a document that not only collected available data, but provided actionable solutions to a variety of issues. The initial 2015 audit looked at ten topics, and each subsequent audit dives deeper into two of the original audit topics for a more in-depth analysis.

Ultimately, the Environmental Sustainability Audit provides information on specific areas of campus life and operations with regards to the level of sustainability they maintain. The information provided serves as a baseline for future generations of students and administration to reflect

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upon when considering growth at Invertis University and topics covered range from course curriculum to energy use to transportation to waste management.

2. OBJECTIVES OF ENVIRONMENT AUDIT

There are three main types of audits which are environmental compliance audits, environmental management audits to verify whether an organization meets its stated objectives, and, functional environmental audits such as for water and electricity.

The key objectives of an environmental audit therefore are to: determine how well the environmental management systems and equipment are performing, verify compliance with the relevant national, local or other laws and regulations, minimize human exposure to risks from environmental, health and safety problems.

The specific objectives of Environment audit are:

- Improve the environment preserving measures and methods
- It helps in pollution control, improves production safety and health conservations of nocturnal resources by the way of ensuring waste prevention and reduction, assessing compliance with regulatory requirement, placing environmental information to the public
- Verify the steps adopted for environment management in the campus
- Spot the inefficient or inadequate practices, if any
- Formulate feasible steps and measures to be adopted in the campus
- Provide an up to date environmental data to the inspecting authority


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3. WASTE MANAGEMENT

Analyzing Invertis waste management programs is an important part of an environmental audit because waste can affect the University's environmental impact and campus safety, especially hazardous waste. From an economic perspective, knowing how waste is managed can help the University develop waste reduction strategies that can increase cost savings while also becoming more sustainable.



From 2011 to 2019, Invertis University improved its waste management programs using a variety of strategies which include the development of student and faculty sustainability committees and new staff positions that directly involve managing the University's waste. Over this eight-year period we increase the number of blue/red recycle bins. Invertis advanced the most in the area of waste reduction by implementing a number of educational and management programs.

Hazardous –Waste that is dangerous or potentially harmful to our health or the environment. Examples of hazardous waste include fluorescent bulbs, chemical products, and batteries.

Non-hazardous –Better known as municipal solid waste (MSW) or garbage.

Consists of items we utilize and dispose of every day such as product packaging, plastic bottles, and food scraps. This category also includes construction debris and medical waste.

In order to properly dispose or recycle all waste materials, both categories of waste must be divided into sub-groups.


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3. PROCUREMENT

Procurement holds an important role in supporting sustainable development. Purchasing decisions should aim for efficient natural resource use, reduced energy consumption and carbon dioxide emissions, waste minimization, fair and ethical trade, and economic stability. Additionally, Invertis university benefit from sustainable procurement practices by receiving good value for their money, protecting and enhancing the environment, improving their efficiency of resource use, supporting innovation, creating a diverse and flexible supply chain, and gaining a competitive edge as a leader university.

4 INTER-UNIVERSITY ELECTRONIC SYSTEMS: INVERTIS ERP

To reduce the over-ordering of paper and resulting waste, the University uses several electronic systems namely; Invertis ERP in place of conventional paperwork and filing. This enables students and faculty members to work without paper and submit and collect the required information electronically. Similarly, The Office of Human Resources has switched from an all-paper to an all-electronic form of job applications and employee benefits system. This system is completely online and sends confirmation through e-mail. Additionally, Invertis University has a portal site for students, faculty, and staff. The site requires a login and provides links to numerous University resources.



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HOME ATTENDANCE LEAVE NEWSIAN COMPLAINT PROFILE

Welcome Anshika Mishra, F2020/2021 (Alumni Division) Wednesday, July 8, 2020 1:00:00 PM

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Your Last Login was on 5/28/2020 9:15:09 AM Visit Invertis University Website

0 : NSAC

352 : Online Users

Announcement				Circulars			
ID	Published Date	Type	Submitted by	ID	Published Date	Type	Submitted by
40	07 Jul 2020	Registre	SANTOSH KUMAR	40	07 Jul 2020	Circular	SANTOSH KUMAR
40	05 Jul 2020	Announcement	DR. RAJEEV BHASKAR	40	04 Jul 2020	Circular	SANTOSH KUMAR
40	17 Jun 2020	Abstract	ALVINA SAIDIA	40	05 Jul 2020	Circular	SANTOSH KUMAR
40	23 Jun 2020	Registre	SANTOSH KUMAR	40	23 Jun 2020	Circular	SANTOSH KUMAR
40				40	15 Jun 2020	Circular	SANTOSH KUMAR

5. CLEANING SUPPLIES

Spring wave contracts usually last about 5 years from 2015-2020 currently operates on a contractual monthly basis service of spring wave including disposables, such as liquid soap, paper, toilet paper, hand sanitizers and other cleaning and sanitization services including cleaning supplies per month, such as floor wax and tools such as mops, brooms etc.

Additionally, Invertis University takes steps to ensure that its employees are implementing proper sustainable practices. These include using more sustainable products instead of conventional cleaning products that seem to be more effective but are actually more environmentally degrading. Cleaning products can also have a significant effect to the health of indoor


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7. BUILDING CONSTRUCTION

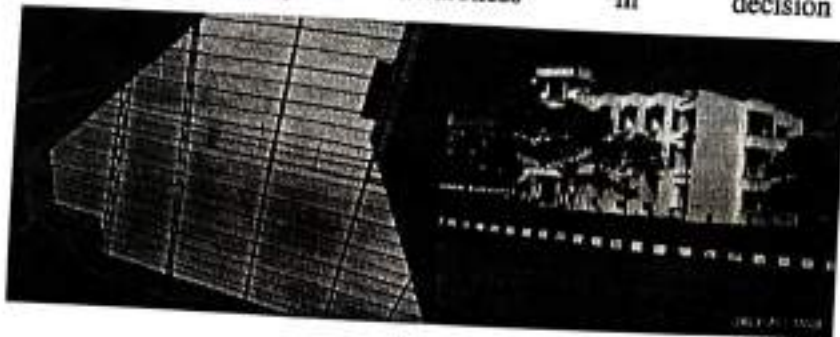
As a concept, 'sustainable building' integrates multiple strategies into the design, construction, and operation of buildings. Sustainable building, or 'green building' represents a dynamic and healthy balance between environmental, social, and economic benefits. The goal is to use fewer resources and less non-renewable energy and water. This is achieved by using recycled materials, minimizing waste, and improving indoor air quality.

Green building and campus planning contribute directly towards sustainability at Invertis, as the built environment has a direct and profound impact on the natural environment.

Attention to the campus plan, layout, and infrastructural systems impacts resource consumption and emissions. Sustainable building practices make the campus a vital and more productive community with healthy indoor and outdoor spaces, and

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reduced energy use and utility costs. As Invertis University campus continues to expand to accommodate more students and faculty, it is important to implement 'green building' awareness in decision making.



The objectives are to:

- Discuss the current status of sustainable building practices at Invertis.
- Explain resources available to improve building designs and operations.
- Provide examples and case studies of green building designs.
- Provide recommendations to increase building efficiencies and improve campus-wide.

FINDINGS

- Invertis is doing well to promote a sustainable culture by promoting alternative transportation, providing bicycle racks, gymnasium etc.

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- All new buildings and major renovations projects are alert to the chemical off-gassing of interior wall paints/sealants and use only non-toxic products.
- All buildings are equipped with fire preventing system.
- To optimize cost saving and material saving, Invertis University is implementing a comprehensive database of retrofits performed, suppliers and materials used, to observe and document outcomes.
- Invertis University incorporates designs and energy system requirements.

8. DINING SERVICES

This audit will provide an overview of how Invertis University in recent years has made progress towards sustainability in dining services and initiatives. The following topics will be covered in addition to any possible recommendations and existing gaps in knowledge by the audit team:

Available Resources:

- 4 Boys hostel and 3 girls hostel having 750+ rooms
- 3 dining locations (Mess) namely; Annapurna are available boys-girls separate.


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- Separate gardens/Gym/sports facilities for hostels.
- Outing facility once in a week with free transportation.
- Regular visit of doctors in hostel (Twice in a week)
- Regular food quality assessment by wardens and Director Administration.
- Student opinion of dining services and sustainability.
- Students mess committee (Boys & Girls) to ensure quality of food, availability, preparation of menu as per student's choice.



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- AC rooms are available as per choice of the students.
- Warm water available during winters.
- 24 hour power supply.
- Amusement and entertainment available like; Movie hall, Indoor games etc.
- Cafeteria facility till 8PM.
- Customized security day/night for all the hostels.
- 24 hour CCTV surveillance.
- Water coolers available on all floors.
- Provide food donations from Invertis students to local food banks.

RECOMMENDATIONS:

- Only vegetarian food is available.
- Special outing facility is available in day time only.
- Special programmes needs to be conducted for waste management awareness.
- Lack of adequate storage capacity for the composted waste.
- University's kitchen garden can be developed.
- Start a competition between dining halls to see who leaves the fewest pounds of waste during a lunch period in the Dining Hall.
- Explain to students that dishes can be customized in the cafeteria to fit specific wants. One possibility may be asking the chefs to obtain feedback about how diners prefer their dishes.
- Label every food or meal option provided in all dining areas on campus as locally grown or sustainably harvested and transported. Also provide the environmental impact of various food choices.
- Provide incentives to students who bring reusable containers take leftovers back to resident halls that would otherwise be thrown away.
- Provide and promote on-campus internship opportunities in food sustainability and preparation for course credit.

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- Create a section dedicated to food and campus sustainability.

9. GEOGRAPHICAL LOCATION OF INVERTIS UNIVERSITY

Invertis University is situated on Bareilly-Lucknow NH-24, equidistant from the national capital Delhi and state capital Lucknow. It is situated within the geo-position between latitude 28.2923317° N and longitude 79.4915667° E in Bareilly, Uttar Pradesh India. The campus is just 12km away from the Bareilly Railway Station and Roadways Bus Stand equally. The campus has built over an area of 23.5 acres of land.

CONCLUDING ASSESSMENT

Invertis University environment services in the past ten years have continued to become sustainable. This has improved student environmental awareness, although further progress in this area can be made. Invertis is working to increase awareness and decrease pre and post-consumer waste. The move to green ware and going tray less supported these efforts in accordance with recommended food facility. Farms and the creation of a campus garden further shows efforts to consume locally grown goods and gain student involvement.

Invertis University is highly committed to increase transparency in the food supply chain at Invertis and allow the students to investigate and understand where their food is coming from and what the environmental implications of their meal choices are.

Increased student awareness and appreciation towards the changes going on in environment areas and through various contracts would improve the campus sustainability mind-set as well. If more education as to why sustainability is important was provided to students, they would be more likely to take action at Invertis.

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