

Green Audit / Environmental Inspection

CIL Ref. No.:	CIL/20232481
Name of organization:	Great Ganges Institute of Technology
Address of premises:	Kanpur-Lucknow Highway, Gram-Gadankhera, Post- Singrausi, Unnao-209801
Name of Inspector:	Mr. ASHUTOSH TIWARI
Date of Inspection:	26/10/2023
Type of Inspection:	Green Audit

Organization Details	
Total Campus Area	6 acres
Total Built-up Area	1700 sq.m.
Covered Parking	800 sq.m
Total Air-Conditioned Area	300 sq.m.
Non-Airconditioned Area	1400 sq.m.
Cross Floor Area	100 sq.m.
Forest / Planted Area	1.5 acre
Age of the building	50 years

DETAILS OF INFRASTRUCTURE

Classrooms	12
Laboratory	Not available
Library	1
Seminar hall and auditorium	1
Sports room	1
Gymnasium	1
Staff and student parking area	1
Canteen	1
Playground	1
Green Area / Plantation	1

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LIST OF BUILDINGS

Name of Building	Number of Floors	Area (m2)
Main Block	3	1000 sq.m.
Hostel block	1	400 sq.m.
Cafeteria Block	1	300 sq.m.

DEPARTMENTS

1	Business Administration
2	Computer Application

DETAILS OF STUDENTS AND STAFF

Total Number of Students	468
Teaching Staff	26
Technical Staff	02
Non-Technical Staff	15
Outsourced Staff	10

GREEN AUDIT PARTICIPANTS

Name	Designation
Dr. Sudhir Singh	IQAC Coordinator
Dr. Saurabh Gupta	Dean Academic

LEGAL COMPLIANCES

Description	Registration Details
Consent to operate (CTO) from SPCB	Not available
Fire NOC	Not available
Water Boring permission	Not available
DG Set Permission	Not available

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About Organization

Great Ganges Institute of Technology is founded by a group of visionaries and intellectuals to impart quality education in a stimulating and innovative environment and manner. In the year 2013, GGIT welcomed its first batch of Graduation to serve Quality Education to the willing aspirants of Kanpur–Unnao region and beyond. Students are here empowered with the knowledge and professional skills while upholding the values of integrity, tolerance, and mutual respect. GGIT is affiliated to Chhatrapati Shahu Ji Maharaj University formerly known as Kanpur University. GGIT has attained a unique and a highly respectable place amongst the top professional education institutions in the state of UP and border states. GGIT has earned a reputation for academic excellence in providing practical and quality academic program in the field of Management and Computer Applications. GGIT takes the lead among the sought-after BBA and BCA colleges in Kanpur and Unnao, fostering a culture of innovation and success.

The vision of Great Ganges Institute of Technology is to be catalysts of transformation and progress. They aspire to create empowered learners who excel academically, ethically, and socially. By embracing innovation, diversity, and global perspectives, they envision producing responsible leaders who shape a better future for themselves and the world.

Mission

The mission of Great Ganges Institute of Technology is to provide quality education, fostering intellectual growth, critical thinking, and character development. They aim to equip students with knowledge, skills, and values for personal and professional success, promoting lifelong learning, innovation, and contributing positively to society.

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GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE



LAND USE DATA

Categories of Land Use	Area (M2)
PLANTATION AREA	1 acre
BUILT UP AREA (INCLUDE ROADS)	2500 sq.m.
TOTAL AREA	1.5 acre

CLIMATIC PARAMETERS

Climate: The weather conditions in Kanpur are characterized by a mild and moderate climate. When compared with winter, the summers have much more rainfall. The climate is classified as Cwa according to Köppen and Geiger. In Kanpur, the mean yearly temperature amounts to 25.3 °C | 77.5 °F. The annual rainfall is 939 mm | 37.0 inch.

Rainfall: Here are the average temperatures. Precipitation amounts to 885 millimeters (34.8 inches) per year: so, it is at an intermediate level. It ranges from 3 mm (0.1 in) in the driest month (November) to 280 mm (11 in) in the wettest one (August).

Temperature: The average temperature is of 32.9 °C (91 °F), with a minimum of 27.2 °C (81 °F) and a maximum of 38.6 °C (101.5 °F). On the coldest nights, the temperature usually drops to around 23 °C (73.5 °F). On the warmest days, the temperature usually reaches around 43.5 °C (110.5 °F).

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BIO-DIVERSITY

Physical Count of Flora in Campus

S. No.	Particulars	Units
1	Trees	69
2	Plants	40
3	Gardens	1

List of Tree/Shrubs/Herbs species found in the campus

S. No.	Botanical Name	Common Name	Units
Trees/ Shrubs/Herbs			
1	Prosopis cineraria	Shami plant	10
2	Nerium oleander	Oleander	10
3	Jatropha integerrima	Peregrina	02
4	Malvaceae	Hibiscus	05
5	Catharanthus roseus	Madagascar	20
6	Bougainvillea alba.	Bougainvillea	10
7	Tabernaemontana divaricata	Crape jasmine	05
8	Plantago	Kulendra	02
9	Callistemon	Bottle brush	05
10	Nerium oleander	Nerumoleader	05
11	Jasminum sambac	Arabian jasmine	05
12	Psidium	Guava	05
13	Mangifera indica	Mango	05
14	Phyllanthus emblica	Gooseberry	05
15	Punica granatum	Pomegranate	05
16	Rubus	Blackberry	05
17	Morus alba	Mulberry	05

Images of Green Cover of the University Campus



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List of birds and animals

S. No.	Zoological Name	Common Name
1.	Passer domesticus	House sparrow
2.	Corvus splendens	House crow
3.	Eudynamis scolopaccus	Koel
4.	Columba livia	Pigeon
5.	Acridotheres tristis	myna

List of Butterflies found in and around the campus.

S. No.	Zoological Name	Common Name
1	Genus Miletus	brownies
2	Genus Curetis	sunbeams

List of Reptiles found in and around the campus.

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S. No.	Zoological Name	Common Name
1	Lacertilia	Lizard
2	Anura	Frog

LEGAL REQUIREMENTS

Description	Registration Details
Consent to operate (CTO) from SPCB	Not available
Fire NOC	Not available
Water Boring permission	Not available
DG Set Permission	Not available

GENERAL

General Requirements: Environmental Policies / Environmental Objectives, etc	
Is there an environmental policy? Is it publicly communicated?	Yes, there is an environmental policy available in place and it is publicly communicated. Reference doc/pic no: A6
Is there a defined waste management policy in the organization?	Yes, there are defined/written waste management policies. Reference doc/pic no.: - A2
Are there any quantifiable environmental objectives decided by the organization?	No record found at the time of audit.
Is the organization aware of all environmental Laws pertaining to different aspects of the organization's activities? Mention laws & compliance status.	There is no evident document/record that ensures that the organization is aware of all environmental laws pertaining to different aspects of the organization's activities.
Does the organization have any Recognition/certification for the environment friendliness? Provide details.	No record found at the time of audit.
Has the organization established any committee to decide, implement & monitor environmental initiatives?	Yes, the organization has established Environmental club for environmental initiatives. The club typically engages in a variety of activities, such as organizing clean-up drives, Soil conservation rally, celebrating environmental day, planting trees, creating compost, and advocating for eco-friendly practices in the community. The club also conducts awareness campaigns, workshops, and seminars to educate people about environmental issues, such as climate change, pollution, and deforestation. Reference doc/pic no: A4, A5, A6

*Inspected
Checked*

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<p>Has the institution ever received any notice/warning from the pollution control board or any other concerned environmental authorities? If yes, then what corrective & preventive measures have been taken?</p>	<p>No, the institution has never received any notice or warning from the pollution control board or any other concerned environmental authorities as per declaration from the college authorities. Reference doc/pic no: A3</p>
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Related images / documents

<p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to U.P. State University, Gorakhpur (U.P.) - 221002</p> <p>Environment Policy</p> <p>The environmental policy of GGIT is to conserve natural resources, develop sustainable activities, disseminate and adopt green technologies and control pollution comprehensively to meet:</p> <ul style="list-style-type: none"> To build awareness among students about conservation of natural resources and development of sustainable environment the national priorities. To facilitate development of technologies to meet the sustainable growth. To adopt the ethical and environmentally friendly approach which incorporates ecological, social, economic and cultural aspects of students through curriculum. To create technical capabilities and develop engineering designs that would be proved for the sustainable utilization of the improved natural resources. To help building up a society that has comprehensive national attitude and works in harmony with nature. 	<p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to U.P. State University, Gorakhpur (U.P.) - 221002</p> <p>Waste Management Policy</p> <p>The institution understands the importance of waste management and its effect on the environment. It is committed to minimizing waste produced by campus buildings, staff and students activities in order to protect the environment. All the generated waste shall be controlled, collected and safely disposed in an appropriate manner.</p> <p>Objectives</p> <ol style="list-style-type: none"> To minimize the waste generation throughout the campus. To ensure that all generated waste is disposed in an appropriate manner. To ensure that all generated waste is disposed in an appropriate manner. To ensure that all generated waste is disposed in an appropriate manner.
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A1. Environmental policy A2. Waste management policy

<p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to U.P. State University, Gorakhpur (U.P.) - 221002</p> <p>Declaration</p> <p>I, Dr. Anil Kumar Singh, Director, Great Ganges Institute of Technology, Gorakhpur, hereby declare that the institution has not received any notice/warning from the pollution control board or any other concerned environmental authorities.</p>	<p>A photograph showing three students in white lab coats engaged in a plantation drive, planting a young tree sapling in a field.</p>
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A3: No warning certificate A4. Plantation Drive

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A5. Soil conservation rally



A6. World Environmental Day celebration

Observations:

- There are no quantifiable environmental objectives decided by the institute.
- The organization does not have any certification for environmental friendliness.
- The organization does not aware of any environmental Laws pertaining to different aspects of the organization's activities.
- The organization does not have any Recognition/certification for the environment friendliness.

POLLUTION

Air Pollution Management (objective, practices / methods to minimize air pollution)	
Identify the major sources of air pollution within the organization & the actions taken to either eliminate or minimize the pollution.	Vehicles and air conditioning are significant sources of air pollution. Consequently, the initiative to establish a vehicle-free zone on campus and incorporate landscaping with plants, along with the implementation of a green campus policy, has been undertaken. Reference doc/pic no: B3
HVAC maintenance and calibration records, testing and balancing reports. When was the duct system tested for leakage last?	HVAC maintenance and calibration records, testing and balancing reports are not being maintained.
DG set stack emission test as per CPCB norms.	The institute has a DG set as a power backup that is used whenever there is a power cut-off due to load shading or maintenance of electricity on the college campus. DG set air pollution level and noise pollution level conducted by CDG Inspection LTD. at the time of the Audit.

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	<p>The following are the outcomes of the check conducted:</p> <p>DG set air pollution level: PM2.5- 29 $\mu\text{g}/\text{m}^3$</p> <p>Noise pollution level: max- 80.5dBA Min- 63.4 dBA</p> <p>Reference doc/pic no: B1, B2</p>
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Related documents / images



B1. Vehicle-free zone

B2. DG set max. noise level



B3. DG set min. noise level

B4. Air pollution level

- Observations:**
- It is recommended that the institute conduct DG set stack emission test in accordance with CPCB.
 - The organization needs to maintain a HVAC maintenance plan and it should also maintain

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the Periodic record of the same.

In-Door Air Quality (Checks, methods, tests & practices to ensure indoor air quality)	
Does the organization test indoor air quality? Details of last indoor air quality test done.	There were no records to verify that the college conducted the test to check indoor air quality test. An indoor air quality check of the campus was conducted by CDG Inspection Ltd. At the time of the audit. Indoor air quality level: 0.3 m/sec PM2.5: 14 µg/m ³ Reference doc/pic no: C1, C2
Is there a proper system of exhaust of indoor air?	Every classroom, staff room, corridor, etc. comprises windows for proper ventilation. The staff room, library, and IT lab on campus all have ventilation systems. The indoor airflow was checked at the time of the audit and the outcome was m/s Reference doc/pic no: C3
Supplies: <ul style="list-style-type: none"> • Are 'Material Safety Data Sheets (MSDS)' available for different types of supplies (Ex: solvent, wax, adhesives, paints, flammables etc.)? • Are storage areas separate & ventilated properly? • Are less or nonhazardous materials used when possible? • Does the organization have a defined system to evaluate & find out safer alternatives? • Is there a defined procedure available for disposal of used substances? 	<ul style="list-style-type: none"> • No related record found at the time of audit. • Yes, the storage areas separate & ventilated properly. • No related record found at the time of audit. • No related record found at the time of audit. • No related record found at the time of audit.
General Cleanliness: <ul style="list-style-type: none"> • Are rooms dusted and vacuumed thoroughly and regularly? What are related checks & controls? • Does the organization ensure to use of environment-friendly, non-scented cleaning products? 	<ul style="list-style-type: none"> • Yes, the classroom, library, staff room, and other areas of the campus were found to be neat and clean at the time of the audit. • The organization doesn't ensure the use of the environment-friendly, non-scented cleaning product.


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Pest control methods & products used (check & control).	The organization doesn't ensure the pest control procedure.
Does the organization ensure use of low emitting paints, coatings, furniture etc.? What are related checks & controls?	Yes, the Institute ensure the use of low-emitting paints, coatings etc. Reference doc/pic no.: - C5
Is there any sign of mold infestation?	No, there is no sign of mold infestation in the organization.
Does the organization eliminate any bird or animal nests or droppings near outdoor air intakes?	No, institute does not harm or eliminate any bird or animal nests.
What are the methods adopted by the organization to control/prevent dust within the buildings?	The buildings have glass windows and greenery around them that help to prevent dust entry and there is daily dusting activity done in the organization. Reference doc/pic no.: - C3, C4
Related records / images	
	
C1: Indoor air flow rate	C2: Indoor air quality level
	
C3. Windows for ventilation	C4: Large and continuous trees all around the campus

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<p>C5. Low VOC paint</p>	
<p>Observations:</p> <ul style="list-style-type: none"> • Organization does not use of environment-friendly, non-scented cleaning products. • Organization does not ensure about the pest control methods and product. • Organization should have a defined system to evaluate & find out safer alternatives and should use less or nonhazardous materials used when possible. • The organization does not have Material Safety Data Sheets (MSDS)' available for different types of supplies. 	

WATER POLLUTION

Water Pollution Management (objective, practices / methods to minimize water pollution)	
Source of water pollution within the premises.	No there is no source of water pollution within the premises.
Measures taken to prevent / stop water wastage.	No related record found at the time of audit.
Does the institute harvest rainwater? Give details.	Not Available
Is there any water recycling system? Give details.	Not Available
Is there any effluent treatment plant in premises? No. of outlets for discharge of effluent?	Not Available
What is the quality of effluent in KLD?	Not Available
Whether operating STP/ETP satisfactorily?	Not Available
Whether provided flow meters on outlet & inlet of ETP/STP?	Not Available
Whether provided separate electricity meter on ETP/STP?	Not Available

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Whether maintained Logbook for consumption of Electricity/ Chemicals/Quantity of effluent?	Not Available
Detail of land in case effluent is discharged for percolation/ irrigation purpose with justification for its 100% utilization.	Not Available
Status of ZLD (Zero Liquid Discharge) as per CPCB	Not Available
Locate the point of entry of water and point of exit of wastewater in the organization.	The campus has a well-functioning water supply system and a closed sewer system. Reference doc/pic no.: - D1
Related records / image	
	
D1. Entry point of water	
Observations: <ul style="list-style-type: none"> There should be a systematic procedure and implementation for water and wastewater management systems on campus. 	

Water Consumption & Water Efficiency	
Use of water (indoor and outdoor water) & practices related to efficient /reduced use of water.)	
Sources of water supply	Ground Water
Number of water storage tanks and their storage capacity. Total water storage capacity.	5 tanks with 1000-liter storage each
Water used in irrigation	50 litre
Water used in cleaning	20 litre

Details	No. of persons	Domestic (liter/ day)	Flushing (liter / day)	Total (liter / day)
Students	468	900	4000	4900
Teaching Staff	26	130	390	520
Technical Staff	2	4	20	24
Non-technical Staff	15	30	100	130

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Outsourced Staff	10	8	20	28
Total	521	1072	4530	5602

Description	Requirement*	Actual consumption
Water consumption per head /day	Without boarding facility: 45 liter per head / day With boarding facility: 135 liter per head / day	11 liters

*As per Central Ground Water Authority Guidelines water requirements (Ref. NBC 2016, BIS) of an educational institute for drinking and domestic use.

Observation:

- The data for water conservation per person per day is not sufficient.

SANITARY CONVENIENCE TO BE PROVIDED

Fitments	Educational Institutes (non-Residential)				Educational Institutes (Residential)			
	Boys		Girls		Boys		Girls	
	Req. *	Actual	Req. *	Actual	Req. *	Actual	Req.	Actual
Water closets	1 per 40 pupils or part thereof		1 per 25 pupils or part thereof		1 for every 8 pupils or part thereof	10	1 for every 6 pupils or part thereof	8
Ablution taps	1 in each water closet		1 in each water closet		1 in each water closet	2	1 in each water closet	2
Urinals	1 per 20 pupils		-	-	1 for every 25 pupils or part thereof	30	-	
Wash basins	1 per 60 pupils, Min 2		1 per 40 pupils, Min 2		1 for every 8 pupils or part thereof	12	1 for every 6 pupils or part thereof	8
Bath	-	-	-	-	1 for every 8 pupils or part thereof	10	1 for every 6 pupils or part thereof	8
Drinking water	1 for every 50		1 for every 50		1 for every 50 pupils or	30	1 for every 50 pupils or	30

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fountains or taps	pupils or part thereof		pupils or part thereof		part thereof		part thereof	
Cleaner's sinks	1 per floor, minimum							

*As per IS 1172:1993

NOISE POLLUTION

Noise Pollution Management (objective, practices / methods to minimize noise pollution)		
Noise level in dB(A) Leq	Standard Level*	Actual Level
Day Time	50	70.1
<p>*As per The Noise Pollution (Regulation and Control) Rules, 2000; rule 3(1) and 4(1) Day time from 6:00am to 10:00pm Nighttime from 10:00pm to 6:00am</p>		

Related records / images



E1. Noise Pollution Level (Max.)

Building Sustainability

Ensure that walls, floors, roofs, and windows are as energy efficient as possible.

The walls, floors, roofs, and windows of the institute are designed to be energy efficient. Glass is used as a building material to enhance energy efficiency by allowing in natural light and reducing the need for artificial lighting, resulting in lower electricity consumption. To promote a sustainable environment, the institute has implemented several "Green Campus" initiatives, restricted entry of vehicles, and landscaping with trees and plants.

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	Reference doc/pic no.: - F1 & F2, F3
Design for good indoor air quality	Yes, every classroom, staff room, corridor, etc. comprise window for proper ventilation. Reference doc/pic no.: -F2
Use of natural daylight in building interiors as a source of ambient light.	Yes, Use of natural daylight in building interiors as a source of ambient light. Reference doc/pic no.: - F2
Use of low emitting materials for building modifications, maintenance, and cleaning.	Yes, the organization ensure use of low emitting paints.



F1. Natural Daylight



F2. Campus Building



F3. LUX meter reading

Lighting

Use of energy efficient lighting system (bulb & other products)	Yes, the college has installed an LED light connected to solar panels in its campus. Reference doc/pic no.: - G1
Use of natural day light	Yes, there is a use of natural daylight in every classroom, library, garden, and lab.

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		Reference doc/pic no.: G2
Related records/images		
		
G1. Natural Daylight	G2.LED Lights	





ILLUMINATION LEVELS AND GLARE INDEX

Sr. No.	Area	Standard Illumination (Lux)*	Standard Glare Index*	Actual Illumination (Lux)
a)	Classrooms	300	16	525
b)	Lecture rooms (including demonstration areas)	300	16	685
c)	Reading rooms	150 to 300	19	125
d)	Laboratories	300	16	178
e)	Corridors	70	-	144
f)	Libraries	300	16	154
g)	Auditorium			260
	I. Hall	70	-	
	II. Foyer	70	-	
	III. Stage area	300	16	
h)	Gymnasiums	150	-	XXX
j)	Cafeterias	100	-	254
K)	Staff rooms	150	-	532
Related records / images				

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<p>H1. Laboratories</p>	<p>H2. Lecture room</p>
	
<p>H3. Staff room</p>	<p>H4. Libraries</p>

* Recommended illumination Levels and Glare index as per National Lighting Code 2010 [ETD 24: Illumination Engineering and Luminaries] Part 5 Section 3

<p>Electrical Equipment's Details of electrical equipment, its energy efficiency & practices</p>	<p>The organization uses energy-efficient electrical equipment such as Star rating LED Monitor, AC and LED bulbs and has replaced CFL bulbs. Reference doc/pic no.: I1, I2, I3</p>
<p>Related records / images</p>	

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I1.LED Montor	I2.LED light
	
I3.5 Star AC	

ELECTRICITY CONSUMPTION

Month	Electricity Consumption (Last 6 months)
April 2023	2120
May 2023	6919
June 2023	10729
August 2023	11559
September 2023	13372
October 2023	12532

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J. Electricity bills

Energy Efficiency

(consumption, objective, practices / methods to achieve energy efficiency objectives)

Current energy uses.

Energy Sources	Consumption (Unit)
Electricity	57231
Fuel oil	187 LTR (Gen.)

Short-term energy efficiency goals & roadmap to achieve those goals.

The institute short-term energy efficiency goals are as follows: * Solar panel installation *Natural Light
The institute is installing solar panels in their buildings for energy efficiency and using natural daylight as an alternative to light bulbs and installing

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	rainwater harvesting and use rainwater for ground recharge. Reference doc/pic no.: - K3
Long-term energy efficiency goals & roadmap to achieve those goals.	Long-term energy efficiency goals include using green energy, reducing greenhouse gas emissions, and reducing demand for energy imports at the institute and there is a defined roadmap developed by the organization that will help them achieve these goals. Reference doc/pic no.: - K1, K2

Related records / images

<p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to G.G.S.I.T. Institute, Varanasi (Uttar Pradesh - 221011)</p> <p>Energy Conservation Policy</p> <p>The energy conservation policy aims to reduce energy consumption, lower greenhouse gas emissions, and promote a culture of environmental responsibility within the organization premises.</p> <p>This document outlines the strategy and policies for the GIGIT premises.</p> <ol style="list-style-type: none"> Energy Audit: Conducting regular energy audits to identify areas where energy is being wasted and to implement energy conservation measures. Energy Efficient Technologies: Encouraging and implementing hardware and software solutions that reduce energy consumption, such as lighting and HVAC systems. Responsible Energy: Encouraging the use of renewable energy sources and solar panels to generate clean and sustainable energy. Energy Efficient Lighting: Promoting the use of LED lights, which consume significantly less energy and have a longer lifespan. Energy Management System: Implementing an energy management system that monitors and controls building operations, including heating, ventilation, and air conditioning to optimize energy usage. Greenhouse Gas Emissions: Reducing greenhouse gas emissions by using energy-efficient products and technologies that do not emit greenhouse gases. Transportation: Promoting sustainable transportation modes such as biking, walking, carpooling and providing electric vehicle charging stations. 	<p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to G.G.S.I.T. Institute, Varanasi (Uttar Pradesh - 221011)</p> <p>Long Term Goals</p> <p>The organization is committed to achieving the long-term goals of the institution. These goals are based on the vision and mission of the organization and are designed to ensure that the organization is able to meet the needs of its stakeholders in the long term.</p> <ol style="list-style-type: none"> Academic Excellence: To provide high-quality education and research that meets the needs of the industry and society. Research and Innovation: To conduct research and innovation that leads to the development of new technologies and products. Industry Collaboration: To establish strong relationships with industry partners and to promote the use of industry best practices. Community Engagement: To engage with the community and to promote the use of sustainable practices. Environmental Stewardship: To protect the environment and to promote the use of sustainable practices. Financial Sustainability: To ensure the financial stability of the organization and to promote the use of sustainable practices. Human Resource Development: To attract and retain top talent and to provide opportunities for professional development. Leadership and Governance: To establish a strong leadership and governance structure that promotes the use of sustainable practices. Internationalization: To establish a strong international presence and to promote the use of sustainable practices. Research and Innovation: To conduct research and innovation that leads to the development of new technologies and products. Industry Collaboration: To establish strong relationships with industry partners and to promote the use of industry best practices. Community Engagement: To engage with the community and to promote the use of sustainable practices. Environmental Stewardship: To protect the environment and to promote the use of sustainable practices. Financial Sustainability: To ensure the financial stability of the organization and to promote the use of sustainable practices. Human Resource Development: To attract and retain top talent and to provide opportunities for professional development. Leadership and Governance: To establish a strong leadership and governance structure that promotes the use of sustainable practices. Internationalization: To establish a strong international presence and to promote the use of sustainable practices.
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<p>K1. Energy conservation policy</p> <p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to G.G.S.I.T. Institute, Varanasi (Uttar Pradesh - 221011)</p> <p>Energy Conservation Policy</p> <p>The energy conservation policy aims to reduce energy consumption, lower greenhouse gas emissions, and promote a culture of environmental responsibility within the organization premises.</p> <p>This document outlines the strategy and policies for the GIGIT premises.</p> <ol style="list-style-type: none"> Energy Audit: Conducting regular energy audits to identify areas where energy is being wasted and to implement energy conservation measures. Energy Efficient Technologies: Encouraging and implementing hardware and software solutions that reduce energy consumption, such as lighting and HVAC systems. Responsible Energy: Encouraging the use of renewable energy sources and solar panels to generate clean and sustainable energy. Energy Efficient Lighting: Promoting the use of LED lights, which consume significantly less energy and have a longer lifespan. Energy Management System: Implementing an energy management system that monitors and controls building operations, including heating, ventilation, and air conditioning to optimize energy usage. Greenhouse Gas Emissions: Reducing greenhouse gas emissions by using energy-efficient products and technologies that do not emit greenhouse gases. Transportation: Promoting sustainable transportation modes such as biking, walking, carpooling and providing electric vehicle charging stations. 	<p>K2. Long term goals</p> <p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to G.G.S.I.T. Institute, Varanasi (Uttar Pradesh - 221011)</p> <p>Long Term Goals</p> <p>The organization is committed to achieving the long-term goals of the institution. These goals are based on the vision and mission of the organization and are designed to ensure that the organization is able to meet the needs of its stakeholders in the long term.</p> <ol style="list-style-type: none"> Academic Excellence: To provide high-quality education and research that meets the needs of the industry and society. Research and Innovation: To conduct research and innovation that leads to the development of new technologies and products. Industry Collaboration: To establish strong relationships with industry partners and to promote the use of industry best practices. Community Engagement: To engage with the community and to promote the use of sustainable practices. Environmental Stewardship: To protect the environment and to promote the use of sustainable practices. Financial Sustainability: To ensure the financial stability of the organization and to promote the use of sustainable practices. Human Resource Development: To attract and retain top talent and to provide opportunities for professional development. Leadership and Governance: To establish a strong leadership and governance structure that promotes the use of sustainable practices. Internationalization: To establish a strong international presence and to promote the use of sustainable practices. Research and Innovation: To conduct research and innovation that leads to the development of new technologies and products. Industry Collaboration: To establish strong relationships with industry partners and to promote the use of industry best practices. Community Engagement: To engage with the community and to promote the use of sustainable practices. Environmental Stewardship: To protect the environment and to promote the use of sustainable practices. Financial Sustainability: To ensure the financial stability of the organization and to promote the use of sustainable practices. Human Resource Development: To attract and retain top talent and to provide opportunities for professional development. Leadership and Governance: To establish a strong leadership and governance structure that promotes the use of sustainable practices. Internationalization: To establish a strong international presence and to promote the use of sustainable practices.
<p>K3. Short term goals</p> <p>GREAT GANGES INSTITUTE OF TECHNOLOGY Affiliated to G.G.S.I.T. Institute, Varanasi (Uttar Pradesh - 221011)</p> <p>Short Term Goals</p> <p>The organization is committed to achieving the short-term goals of the institution. These goals are based on the vision and mission of the organization and are designed to ensure that the organization is able to meet the needs of its stakeholders in the short term.</p> <ol style="list-style-type: none"> Academic Excellence: To provide high-quality education and research that meets the needs of the industry and society. Research and Innovation: To conduct research and innovation that leads to the development of new technologies and products. Industry Collaboration: To establish strong relationships with industry partners and to promote the use of industry best practices. Community Engagement: To engage with the community and to promote the use of sustainable practices. Environmental Stewardship: To protect the environment and to promote the use of sustainable practices. Financial Sustainability: To ensure the financial stability of the organization and to promote the use of sustainable practices. Human Resource Development: To attract and retain top talent and to provide opportunities for professional development. Leadership and Governance: To establish a strong leadership and governance structure that promotes the use of sustainable practices. Internationalization: To establish a strong international presence and to promote the use of sustainable practices. 	

On-Site Energy Generation
(Details of renewable energy generation projects on organization's property for organization's use)

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The institute has total generation capacity of 50 kilo watts which can provide electricity to the institute.

Reference doc/pic no: L1

Related records / images



L1. Solar panel

DRINKING WATER

Drinking Water Quality
(As per IS 10500: 2012)

The institute conducted drinking water quality tests according to the IS 10500:2012 standard from Jal Jeevan laboratory and confirmed that the water is safe for drinking.

Reference doc/pic no: M1

CDG Inspection Ltd. conducted a pH test of the water at the time of the audit, and the pH value of the water was found to be 6.7, which is within the prescribed safe range for drinking purposes.

Reference doc/pic no: M2

Related records / images

Inspector
Chandra

Inspector
Chandra

Green Audit / Environmental Inspection

<p>User Information</p> <p>Sample description</p> <p>Test results</p>	<table border="1"> <tr><td>1</td><td>Temperature</td><td>25</td><td>25</td><td>25</td></tr> <tr><td>2</td><td>pH</td><td>7.5</td><td>7.5</td><td>7.5</td></tr> <tr><td>3</td><td>Dissolved Oxygen</td><td>8.5</td><td>8.5</td><td>8.5</td></tr> <tr><td>4</td><td>Electrical Conductivity</td><td>150</td><td>150</td><td>150</td></tr> <tr><td>5</td><td>Total Hardness</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>6</td><td>Calcium Hardness</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>7</td><td>Magnesium Hardness</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>8</td><td>Total Solids</td><td>200</td><td>200</td><td>200</td></tr> <tr><td>9</td><td>Calcium Solids</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>10</td><td>Magnesium Solids</td><td>100</td><td>100</td><td>100</td></tr> </table> <p style="text-align: right;"><i>[Signature]</i></p>	1	Temperature	25	25	25	2	pH	7.5	7.5	7.5	3	Dissolved Oxygen	8.5	8.5	8.5	4	Electrical Conductivity	150	150	150	5	Total Hardness	100	100	100	6	Calcium Hardness	50	50	50	7	Magnesium Hardness	50	50	50	8	Total Solids	200	200	200	9	Calcium Solids	100	100	100	10	Magnesium Solids	100	100	100
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M1. Water test report as per IS 10500:2012



M2. pH test report by CDG

WASTE MANAGEMENT

Type of waste - Plastic waste

Approximate annual quantity- 250 kg

Source of waste – water bottles, food packaging rap, Plastic Bags, Beverage Bottles, Takeout Containers, etc.

Handling methods: Plastic waste is dumped into dustbins.

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<p>Measures to reduce the waste quantity- No information found at the time of audit.</p>
<p>Type of waste – Paper waste</p> <p>Approximate annual quantity- 50kg</p> <p>Source of waste – Hard copies of project reports, exam papers, Notes pads, assignments, tissue paper, craft use, laboratory records, prescription, medical report etc.</p> <p>Handling methods- No record found at the time of audit.</p> <p>Measures to reduce the waste quantity- Emphasis on the online/electronic communication, ERP system, reuse and recycle of paper.</p>
<p>Type of waste – Electronic waste</p> <p>Approximate annual quantity- 250 kg</p> <p>Source of waste – Computer, Mouse, Keyboard.</p> <p>Handling methods- Store it in a storeroom and then deliver it to local vendor.</p> <p>Measures to reduce the waste quantity- No information found at the time of audit.</p>
<p>Type of waste – Hazardous waste</p> <p>Approximate annual quantity- Not applicable</p>
<p>Type of waste – Garden waste</p> <p>Approximate annual quantity- 120 kg</p> <p>Source of waste – Tree/Plants</p> <p>Handling methods- Dumped into pits.</p> <p>Measures to reduce the waste quantity- No information found at the time of audit.</p>
<p>Type of waste – Food waste</p> <p>Approximate annual quantity- 100 Kg</p>

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<p>Source of waste – Canteen mess</p> <p>Handling methods- Dumped into pits.</p> <p>Measures to reduce the waste quantity- No information found at the time of audit.</p>
<p>Observations:</p> <ul style="list-style-type: none"> There are no proper records found for Food waste, Garden waste, Plastic waste, electronics waste management. Plastic waste and E-WASTE should not be mixed with other municipal waste. Instead, it should be collected separately and handed over to a recycler for proper processing and recycling. By keeping plastic waste segregated, we can enhance the recycling process and minimize environmental impacts.

COMPOSTING PLANT

How much organic waste is generated in a day? What type of organic waste is generated?	Not available
Details & capacity of compost plan installed in the organization.	Not available
Details of composting method used	Not available
Compost facility maintenance & inspection plan	Not available
<p>Observations:</p> <ul style="list-style-type: none"> It is recommended to adopt a proper composting method for complete decomposition and can consider installing a composting machine on campus for safe and sustainable composting. 	

RAINWATER HARVESTING

Provide details of the rainwater harvesting facility.	Not available
Rainwater harvesting system maintenance plan	Not available
<p>Observations:</p> <ul style="list-style-type: none"> The organisation does not install rainwater harvesting system. 	

Training	
Has the organization provided waste management/handling training to concerned employees. Give details.	No record found at the time of audit.

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Has the organization provided training for energy saving?	No record found at the time of audit.
Has the organization conducted training for solid waste management?	No record found at the time of audit.
Has the organization conducted awareness training for water saving?	No record found at the time of audit.
Observations:	
<ul style="list-style-type: none"> The organization does not conduct any training program. 	

Environmental Practices	
Waste recycling	Yes, garden waste is decomposed and used as a fertilizer for plant and tree.
Waste Decomposition	Yes, the institute has placed the waste in an open area pit, but it has not been designed according to the required dimensions.
Rainwater harvesting	No records found at the time of audit.
Environmentally Preferable Purchasing (EPP) or Green Purchasing	The organization use LED bulbs for energy conservation, different color of dustbin for segregation of waste in EPP.
Distinct receptacles for trash and recycling	No records found at the time of audit.
Low-emission transportation	No records found at the time of audit.
maximum use of clean energy	Yes, Organization have installed solar panel.
Preference to electronics over the paper	Yes, they conduct exams and accept project and assignment submissions through online mode.
Campus garden	Yes, there is a beautiful campus garden that not only provides an aesthetic view of the campus but also helps improve air quality, reduce carbon footprint, and create a habitat for wildlife.

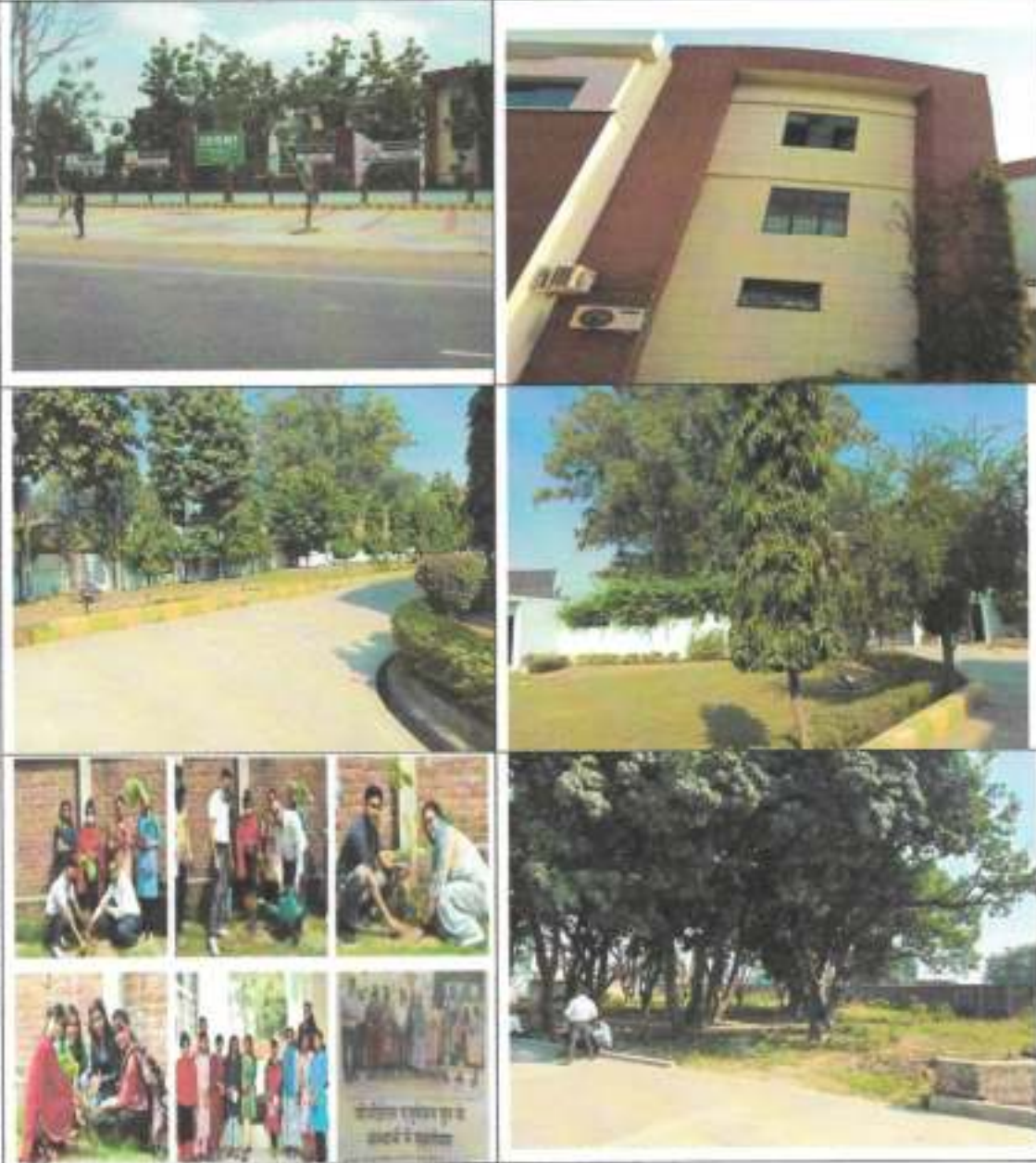
Environmental Initiatives / Green Initiatives
<p>There are various green initiatives taken by the organization: -</p> <ul style="list-style-type: none"> The organization has ban vehicle use inside campuses. The organization is going for the star-rated AC and motor fans. They have started using of the LED bulb instead of the CFL bulb and tube lights. The organization use renewal sources over non-renewal sources. The organization maintain greenery for better environment inside the campus. The organization use low VOC paints.

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Inspector
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Green Audit / Environmental Inspection

Green Belt/ Landscaping



Name of auditor: **Ashutosh Tiwari**

Signature: *Ashutosh Tiwari*



Ashutosh Tiwari

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