



ENVIRONMENT AUDIT REPORT



SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR PUNJAB

CONDUCTED BY:

R.K. ELECTRICALS & ENERGY AUDIT SERVICES

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Academic Year 2023-2024



CERTIFICATE

This is to certify that the **“R.K. Electricals & Energy Audit Services”** had conducted Environment Audit of **“Sant Baba Bhag Singh University Campus, Jalandhar** from 27/11/2023 to 28/11/2023 for the academic year 2023-2024. This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The University has Environmental Committee for sustainable use of resources.

The audit team opines that the overall site is maintained well from environmental perspective. The efforts made by staff and students in the areas of environment and sustainability are much appreciated and encouraged.

DocuSigned by:
Rakesh Kumar
78B66E70DBBE45A...

For R.K. Electricals & Energy Audit Services



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Project Title: Environment Audit Of "SBBS University, Jalandhar"

1. ACKNOWLEDGEMENTS

R.K. ELECTRICALS & ENEGY AUDIT SERVICES expresses sincere thanks to the followings:

Hon'ble Chancellor	Sant Manmohan Singh ji
Hon'ble Secretary	S. Hardaman Singh Minhas
Hon'ble Vice - Chancellor	Dr. Dharamjit Singh Parmar
Manager Facilities In- Charge	Capt. Sukhdev Singh
Dean Academics	Dr. Vijay Dhir
Registrar	Dr. Aneet Kumar
Dy. Registrar	Mr. Roop Singh
Director IQAC	Dr. Anil Kumar Singh
Dean UIL	Dr. Pooja Bali
Dean UIS	Dr. Shweta Singh
Dean UIET	Dr. Jagdeep Kaur
Dean UIA	Dr. Vikas
HOD Department of Electrical Engineering	Dr. Gurmanik Kaur
HOD Department of Agriculture	Dr. Vikrant Jaryan
Coordinator, Environment Sustainability Management Cell	Dr. Indu Sharma

for giving us an opportunity to conduct the Green Audit of SBBSU University, Jalandhar

The Study team **sincerely** thanks the support staff members of SBBSU University who have rendered their all-possible co-operation and assistance during the entire period of assignment.

DocuSigned by:
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BEE's C/ Energy Auditor (EA-10080) MoP, GoI
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2. EXECUTIVE SUMMARY

An environmental audit is a snap shot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. The management of the University is conscious with regard to improve sustainability and complementary to its Environmental Policy and aims to Minimize the environmental impact of its operations and move towards restoring environmental integrity

Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus.

Environmental audits are crucial for promoting sustainability, reducing pollution, and conserving resources. They also help organizations avoid legal penalties and enhance their reputation by demonstrating environmental responsibility.

A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.



Project Title: Environment Audit Of "SBBS University, Jalandhar"

The Brief description about Audit is shown below:

Project Title: Environment Audit of Sant Baba Bhag Singh University, Jalandhar	
Project Report Number: RKS/ENA-39	
Client: Registrar, Sant Baba Bhag Singh University, Jalandhar	
Contact Person: Director IQAC - Dr. Anil Kumar Singh	
Date of Audit: 28/11/2023	
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">DocuSigned by:</div> <div style="margin-left: 10px;"> <p>Rakesh Kumar</p> <p><small>78B66E70DBBE45A</small></p> </div> </div>	
Date of this Report: 23.12.2023	
Work Carried out by:(Team Composition)	Er. R.K. Sharma (BEE Certified Energy Auditor) & IGBC Accredited Professional, Mrs. Savita Sharma (Msc. Ecology and Environment) Er. Varun Sharma B. Tech (EE), MBA, PGD (Indl Safety)



3. INTRODUCTION

3.1 Environment Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Environment audit can be a useful tool for a university to determine how and where they are using the most energy or water or resources; It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics. Thus, it is imperative that the University evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

3.2 Back ground of SBBS University, Jalandhar

The Sant Baba Bhag Singh Memorial Charitable Society, under the dynamic leadership of Sant Baba Malkit Singh Ji, has been providing essential infrastructure facilities to the people living in the vicinity of Dera Sant Pura Jabbar, near Adampur Doaba, Dist. Jalandhar. This includes constructing bridges and roads and providing street lights to villages. The Society began offering formal education by establishing the SBBS Institute of Engineering & Technology in 2003. This was followed by the establishment of SBBS International School in 2004, SBBS Institute of Education in 2005, SBBS Institute of Nursing in 2005, SBBS Research & Development Centre in 2010, SBBS Post Graduate College in 2011, and SBBS Public School, Binjon in 2011. Rural healthcare has been provided through Guru Nanak Sadh Sangat Charitable Hospital, Kalra, since 2003.

In pursuance of the vision: "To encourage each and every child to get educated, acquire knowledge and wisdom so as to learn the art of leading a happy, successful, and meaningful life," all these institutions established their presence in the field of education, leading to their flowering into Sant Baba Bhag Singh University, established under the Sant Baba Bhag Singh University Act, 2014.

The institutions have made significant contributions in the field of education, as evidenced by excellent results and placement records. With state-of-the-art infrastructure catering to the needs of students, a pollution-free and drug-free campus, a focus on excellence in teaching, and the active involvement of students and faculty in co-curricular and extracurricular activities—including NCC, NSS, industrial visits, and a remarkable presence in sports among educational institutions—along with a culture of imbibing ethical values, Sant Baba Bhag Singh University is an ideal choice for quality education.



A View of SBBS University’s Lush Green Campus from Google Earth S/W

4. ENVIRONMENT AUDIT - QUESTIONNAIRE

4.1. BRIEF DESCRIPTION OF UNIVERSITY CAMPUS

Had any Environmental Audit conducted earlier?

No, this is first time a systematic way of monitoring their environmental eminence initiative taken by, SBBS University Jalandhar for environment protection.

What is the total permanent population of the Institute?

Particulars	Total
Students-Nos.	3990
Teaching & non teaching staff-Nos.	412
Approximate Number of Visitors (Per day)-Nos.	85

Where is the campus located? ->SBBS University is located in Jalandhar

Which of the following are available in your University?

1	Garden area	Yes
2	Play ground	Yes
3	Kitchen	Yes
4	Toilets	Yes
5	Garbage Or Waste Store Yard	No



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6	Laboratory	Yes
7	Canteen	Yes
8	Hostel Facility -(numbers)	Yes
9	Guest House and staff residences	Yes

Which of the following are found near your institute?

1	Municipal dump yard	No
2	Garbage heap	No
3	Public convenience	Yes
4	Sewer line Stagnant water	No
5	Open drainage	No
6	Industry – (Mention the type)	
7	Bus / Railway station	Yes
8	Market / Shopping complex / Public halls	Yes

5. WASTE MANAGEMENT

5.1. QUESTIONNAIRE

1	Does your institute generate any waste?	YES Paper, Packing Material, Food Waste, Plant Waste,	
	If so, what are they?		
2	What is the approximate amount of waste generated per day? (In Qntl/month) (approx.)	Dry Waste	Wet Waste
		28 Kg per day	90 kg per day
3	How is the waste generated in the institute managed? By	<ul style="list-style-type: none"> • Plant waste is used for preparing plant-based composites • Paper and similar waste is sold to local scrap collector • Minimum use of single use plastic • Sewage water treated by STP (600 KLD capacity) 	
4	Do you use recycled paper in institute?	Yes	
5	Do you use reused paper in institute?	Yes	
6	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	<ul style="list-style-type: none"> • Organise seminars/ extension activities/ workshops (such as Best out of Waste) to popularize recycling of waste among nearby villages. • No initiatives have been taken in this regard. 	

7	Can you achieve zero garbage in your institute? If yes, how?	No, however continuous efforts are being made to minimize garbage output in campus.
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5.2. WASTE DISPOSAL: Waste management or Waste disposal is all the activities and actions required to manage waste from its inception to its final disposal. This includes amongst other things, the collection, transportation and disposal of garbage, sewage and other waste products together with monitoring and regulation.

Green waste dry and fallen leaves are collected and buried in compost pits where after some time, same is converted into manure naturally which is used in agriculture.

A compost pit is a designated area where organic waste, such as kitchen scraps and yard waste, is collected and decomposed into nutrient-rich compost. This process is called composting, and it involves the natural breakdown of organic materials by microorganisms, fungi, and other decomposers.



A Compost Pit for Disposal Of Garden / Horticulture Waste Of Campus.

5.3. Details of dustbin at SBBS University Jalandhar

SBBS University, Jalandhar has placed waste bins for proper segregation of solid wastes in the different locations of the campus

Item	Nos.
Dust Bin 15 lts Plastic (Green)	45
Dust Bin 15 lts Plastic (Blue)	45



Dustbins Placed Inside Campus

For taking care of Solid waste (Dry and Wet) from various buildings, kitchens, canteens, hostels etc, SBBS University Jalandhar has tie up for lifting garbage and waste from campus with a local Municipal contractor. The waste collection vehicle of this contractor visits the campus daily for collection of waste which is already separated in **green and blue dustbins** (separate for wet and dry waste). Approximate waste collection to the tunes of 100Kg per month.



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Segregating dry and wet waste is an essential practice for promoting environmental sustainability and efficiency. Here are some key benefits:

1. **Enhanced Recycling:** Separating dry waste (like paper, plastic, and metal) from wet waste (like food scraps and garden waste) makes it easier to recycle materials. Recyclable materials can be processed and reused, reducing the need for raw materials.
2. **Reduced Landfill Waste:** Proper segregation can significantly decrease the amount of waste sent to landfills. Wet waste, which is biodegradable, can be composted and turned into valuable fertilizer, while dry waste can be recycled.
3. **Improved Waste Management:** Segregated waste is easier and more efficient to handle, process, and dispose of. It helps waste management facilities operate more effectively.
4. **Minimized Contamination:** Mixing wet and dry waste can contaminate recyclable materials, making them unsuitable for recycling. Segregation ensures that materials remain clean and usable.
5. **Cost Savings:** Efficient waste management can reduce the costs associated with waste collection, transportation, and disposal. Composting wet waste can also save money on fertilizers and soil conditioners.
6. **Environmental Protection:** Proper waste segregation reduces the emission of greenhouse gases from landfills and minimizes soil and water pollution. Composting wet waste also enriches the soil, improving its structure and fertility.
7. **Public Health Improvement:** Effective waste segregation reduces the proliferation of pests and harmful bacteria, leading to a cleaner and healthier environment.
8. **Community Awareness:** Practicing waste segregation raises awareness about the importance of recycling and sustainable living, encouraging communities to adopt more environmentally friendly habits.

By implementing waste segregation, we can collectively make a significant positive impact on our environment and society.

5.4. Sewage Treatment

The campus has a full fledge functional Sewage Treatment Plant (STP) where waste water from Washrooms, kitchens, grounds etc is collected and treated for further use for agriculture or landscape watering. The capacity of SBBU Campus’s MBBR type STP is 600 KLD. The plant runs 24 hours a day with three operators working in shift system.

MBBR (Moving Bed Biofilm Reactor) is a type of **Sewage Treatment Plant (STP)** that uses a biological process to treat wastewater. Here's a brief overview:

Working of MBBR:

1. **Biofilm Formation:** Microorganisms grow on small plastic carriers (media) that move freely within the aeration tank.
 2. **Aeration:** Air is supplied to the tank, providing oxygen for the microorganisms to break down organic matter in the wastewater.
 3. **Nitrification and Denitrification:** The process involves converting ammonium into nitrate (nitrification) and then nitrate into nitrogen gas (denitrification), which is released into the atmosphere.
4. **Benefits of MBBR STP:**
- **Efficient Treatment:** Effective removal of organic substances, nitrogen, and other pollutants.
 - **Compact Design:** Requires less space compared to traditional treatment methods.
 - **Low Maintenance:** Easy to operate and maintain.
 - **Cost-Effective:** Lower capital and operational costs.
 - **Flexibility:** Can handle variations in wastewater flow and load

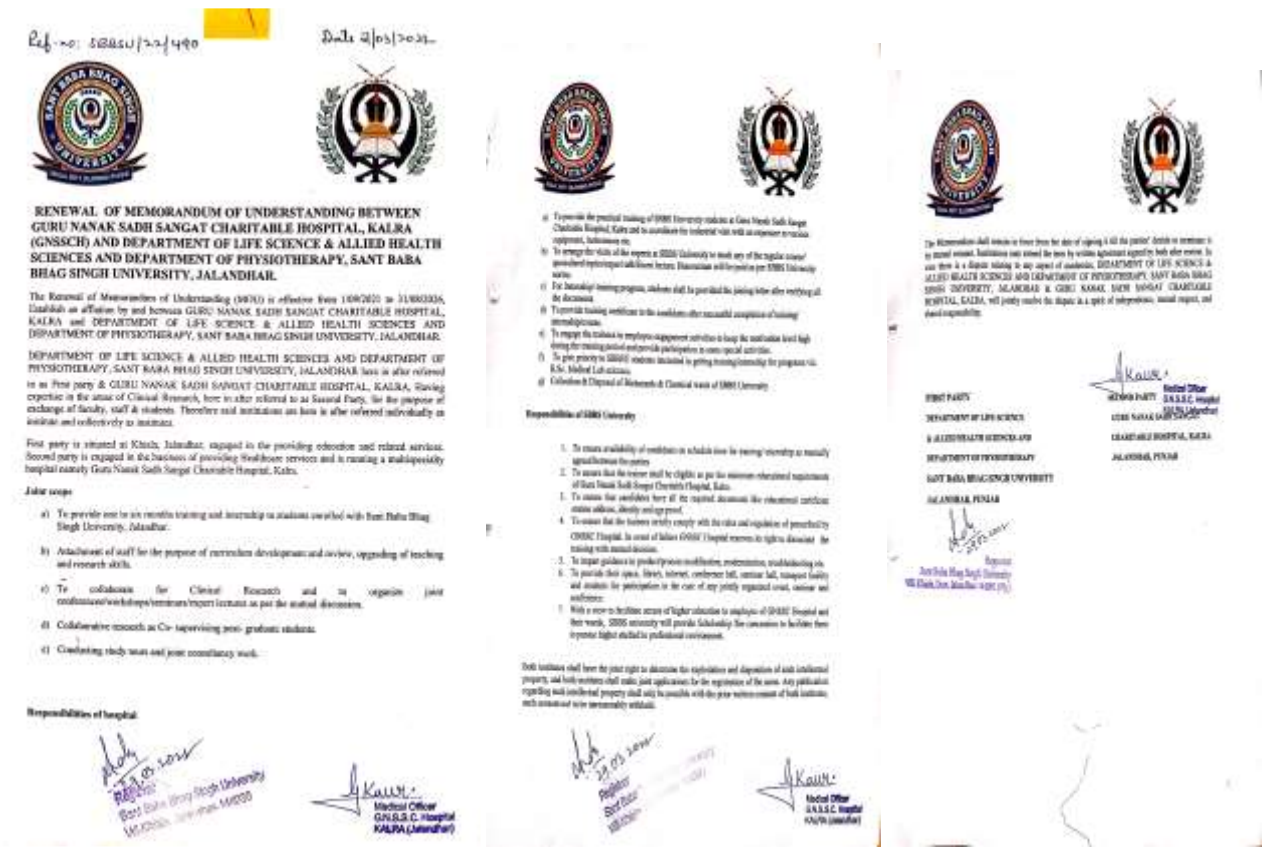


MBBR STP Of Capacity 600 KLD Installed in SBBS University Campus



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Bio-Medical Waste Disposal MOU – An MOU has been signed between Guru Nanak Sadh Sangat Charitable Hospital, Kalra and Deptt of Life Sciences & Allied Health Sciences and Deptt of Physiotherapy, SBBS University, Jalandhar.



E-Waste Disposal / Takeoff Agreement has been signed between SBBU Jalandhar and Spreco Recycling, Ludhiana for disposal and further recycling of E-Waste, thus preventing hazardous materials like lead, mercury, and cadmium from contaminating the soil, water, and air.



E-Waste Takeoff Agreement

6. GREENING THE CAMPUS

6.1. QUESTIONNAIRE

1	Is there a garden in your institute?	Yes	
2	Do students spend time in the garden?	Yes	
3	Total number of Plants in Campus	Plant type	Approx. number
		Seasonal	560
		others	289
		Trees	270
4	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Aromatic Plants, Medicinal Plants, Spices Air purifying plants	
5	Does the campus have any Horticulture Department	Yes	
	Number of Staff working in Horticulture department	8	
6	Number of Tree Plantation Drives organized by university per annum. (If Any)	4	
7	Number of Trees Planted in Last FY.	Approx 500	
	Survival Rate	Approx 75%	
8	Plant Distribution Program for Students and Community	Yes	
9	Plant Ownership Program	Yes	

6.2. Existing Environment Policy

An Environmental Policy is a formal statement made by an organization, government, or business that outlines its commitments and objectives regarding environmental protection and sustainability. These policies provide a framework for decision-making and set the standards for environmental performance. Environmental policies are essential for driving sustainable practices and ensuring that organizations contribute positively to the health and well-being of the planet.

SBBS University has a well planned and defined Environment Sustainability to take care of healthy environment around campus which has been enclosed Annexure A in the end of this report.

7. ENERGY CONSERVATION

7.1. QUESTIONNAIRE

1	List ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electrical energy, LPG, Solar Pannel, Heat energy, Thermal energy
2	Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some	Solar Panel in campus and LED bulbs have been installed in campus.
3	How many CFL/LED bulbs has your institute installed?	More than 1000 CFL / LED lamps have been replaced.
4	Are any alternative energy sources employed / installed in your institute? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.) Specify.	Photovoltaic cells for solar energy, Induction stove for cooking, Energy saving five-star AC are being installed.
5	Do you run “switch off” drills at institute?	Yes
6	Are your computers and other equipment’s put-on power-saving mode?	Yes
7	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	No



Rooftop Solar Power Plant At SBBS University, Jalandhar

7.2. Energy conservation measures:

7.2.1. LED lights: About 1000 nos. conventional lighting has been replaced with LED lighting thus lowering the electricity consumption in the campus



Conventional FTL Are Being Replaced with Energy Efficient LED Lights In Campus



SBBS University Has Installed a Rooftop Solar Power Plant of Capacity (55+45)=100 KWP

8. WATER MANAGEMENT

8.1. QUESTIONNAIRE

1	List four uses of water in your institute	<ol style="list-style-type: none"> 1. Drinking 2. Bathing /Toilets 3. Irrigation 4. Washing
2	How does your institute store water? Are there any water saving techniques followed in your institute?	<p>Yes</p> <p>There are 25 overhead water storage tanks with capacity of 2000 litres and 1 main overhead water tank with capacity of 5 lakh litres</p>
3	If there is water wastage, specify why and how can the wastage be prevented / stopped?	University ensures to prevent water wastage by use of auto- push taps and regular check for leakage. If water leakage is detected than immediate steps are to stop it.
4	Locate the point of entry of water and point of exit of waste water in your institute.	<p>Entry- Underground 7 bore wells</p> <p>Exit- From canteen, hostels, laboratories, toilets etc via covered drainage to 600 KLD STP located within campus area</p>
	Entry-	
	Exit-	
5	Write down four ways that could reduce the amount of water used in your institute	<ul style="list-style-type: none"> • Proper maintenance and monitoring of water supply system to avoid overflow and leakage. • Installation of auto push taps to reduce water wastage. • Close taps after uses. • Displaying banners highlighting importance of water near water taps
6	Record water use from the institute water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many Litres of water have been used.	<p>Dinking – 118.85 KL/month</p> <p>Gardening – 840.88 KL/month</p> <p>Kitchen and Toilets – 764.76 KL/ month</p> <p>Hostel – 3250.87 KL/month</p> <p>Miscellaneous – 378.70 KL/month</p> <p>Total – 5354.06 KL/month</p>
7	Does your institute harvest rain water?	Yes
8	Is there any water recycling System.	Yes, thru MBBR Type STP

8.2. Water quality and conservation

SBBS University Jalandhar utilizes approx. 5300 K Litres of Water per day approximately. Ground water is extracted using Submersible Water pumps and pumped to overhead tanks after storing in a tank near canteen area.

8.3. Drinking water: Reverse Osmosis Plant - Reverse osmosis (RO) is a membrane separation process, driven by a pressure gradient, in which the membrane separates the solvent (generally

water) from other components of a solution. The membrane configuration is usually cross-flow. The campus has provided purified R.O. drinking water to all the students and staff residing in the campus by setting up the R.O filters. In addition to drinking purpose, R.O water is provided to the hostel mess for cooking foods.



Existing RO FILTERS in the campus



Measured pH and TDS Values Of Filtered Drinking Water



Auditors checked the quality of the drinking water after it is treated from RO Plant and the results are as under:

SR NO.	Particulars of checked item	Value	Remarks
1	Sample of drinking water for testing PH Value	8.2	Good
2	Sample of drinking water for testing TDS (total dissolved solids) Value	284 ppm	Fair

Thus, as per above table the water is safe for drinking.

8.4. Utilization of Waste water: All the main buildings in SBBS University campus are connected with underground tanks which store the rain water flowing from parks, pathways, roads and rooftops, which is further utilized for watering the landscape areas in campus, thus maximizing the use of natural resources.



An Underground Rain Water Harvesting Tank in SBBS University Campus.



9. AIR QUALITY ASSESMENT

9.1. QUESTIONNAIRE

1	Are you aware of any environmental Laws Pertaining to different aspects of environmental management?	Yes
2	Does your institute have any rules / made initiatives to protect the environment	Yes, Ban of plastic and efforts gave been made to minimize the pollution.
3	Is Environmental Ambient Air Quality monitoring conducted by the institute?	No
4	Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
5	Dose stack monitoring of DG sets conducted by the Institute?	No
6	Is any warning notice, letter issued by state Government bodies?	No
7	Dose any Hazardous waste generated by the Institute? If yes explain its category and disposal method	No
8	Is any Bio medical waste generated by the Institute? If yes explain its category and disposal method	Yes, MOU of disposal of Biomedical waste has been signed with designated agency.

9.2. INDOOR ENVIRONMENTAL QUALITY

Health and comfortable life is the top most priority of every building user. Corresponding to health and wellbeing, the quality of a built environment for its occupant inside a building is referred to as in door environmental quality. Indoor environmental quality involves noise disturbance, occupant density, in door lighting, day lighting, ventilation, room temperature, cleanliness and indoor humidity. All these factors add up and form indoor environmental quality.

Auditors measured some parameters at different locations in the buildings of SBBS University campus as under:

AQI ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	CO (ppm)	NO2 (ppb)	O3 (ppb)	SO2 (ppb)
336	362.87	236.8	2.04	94.55	14.94	8.95

Sr	Location	CO2	TVOC	HCHO	Temperature In	Relative Humidity
----	----------	-----	------	------	----------------	-------------------

No.					°C	in %
1	Block 5 GF	405	0.021	0.000	21	57
2	Block 8 FF	406	0.021	0.001	21	57
3	Near Main Gate	405	0.021	0.001	22	58
4	Near Law Deptt.	405	0.021	0.001	21	57

From the Above table, it is found that the room temperature and relative humidity are in comfortable limits. Also, the ventilation and day lighting are in good conditions. But various environmental aspects like AQI, CO2 etc are in not healthy limits. It is advised that more pollution control measures need to be adopted in and around the campus.



Monitoring AQI And Other Environmental Parameters Inside SBBS University Campus

With growth of campus population by increase in the student’s intake and further augmentation of infrastructure, share of University campus carbon foot prints likely to increase in future.

10. TRANSPORT

10.1. QUESTIONNAIRE

1	Does Campus has own or contracted vehicles?	Yes	A combination of campus-owned and operator-owned vehicles			
2	Provide details of campus owned / hired motorized Vehicles?	Cars	Bus	Vans	Bike +Other	Total
	No. of vehicles	15	19	1	1	26
	No. of vehicles more than five years old	0	0	0	0	0
	No. of non-air-conditioned vehicles	0	19	1	1	21
	PUC done	Yes	Yes	Yes	Yes	
3	Specify the type of fuel used by your College's vehicles:					
	Diesel	15	19	1	0	25
	Petrol + CNG	0	0	0	0	0
	CNG	0	0	0	0	0
	LPG	0	0	0	0	0
	Petrol	0	0	0	0	0
4	Electrical	0	0	0	1	1

Transport accounts for alongside local government and planning authorities is also crucial to optimize local public transport solutions.

10.2. Internal Campus Transport

SBBS University Jalandhar campus cover large areas, so transport to and from university campus are unavoidable. However, the method of transport is a choice and, rather than only thinking of the quickest way, campus needs to consider the greenest way. While cars can sometimes prove necessary, cycling and walking is strongly encouraged.

Keeping in view the CO₂ emissions from transports, the auditors checked pollution and fitness certificates of some vehicles as a test check. Two of such fitness certificates are shown in below:



Project Title: Environment Audit Of "SBBS University, Jalandhar"

Permit (PSVP PERMIT) <https://rta.jalandhar.gov.in/val/vehiclereservation/psvp/PSV>
 Date of Approval: 18-Aug-2022

PAB 187900

GOVERNMENT OF JALANDHAR RTA
PUNJAB

PERMIT IN RESPECT OF PRIVATE SERVICE VEHICLE PERMIT (BUS)

PART-A

1. Permit No.	PB2022-PSVP-1814A
2. Name Of The Permit Holder	SANT BABA BHAG SINGH UNIVERSITY
3. Father's/Husband's Name	NA
4. Address	VILL. KHALA PO. RAHWANA, Punjab, Jalandhar-144033
5. The state or states of the area for which the permit is valid	
Region Covered	50KM FROM THE PLACE OF REGISTRATION
6. Purpose for which the Vehicle	
7. Type, Model and Capacity of Vehicles, including trailer and the alternative Trailers of articulated vehicle	
(i) Vehicle Type / Model	Bus/LPO 131554 CHASSIS
(ii) Seating Capacity	54
(iii) Regd. Lader Weight(Kg.)	14000
(iv) Registration Mark	PB08EY2158
(v) Make/Model	TATA MOTORS LTD/LPO 131554 CHASSIS
(vi) Chassis No.	MAT204001NFD02928
(vii) Service Type	Select Service Type
8. Validity of the Permit	From: 21-Jul-2022 To: 20-Jul-2027
9. Date of Replacement of Vehicle	
10. Parking Place	
11. Purpose of Journey	
12. Conditions	
(a) The MV shall be used by or on behalf of the owner for the purpose of carrying persons for, or in connection with, his Trade or Business otherwise than for hire and reward and this vehicle shall not be used for public purpose as required under Section 2(33) of M.V Act 1988.	
Vehicle Financier Details	
Financier Name	HDFC BANK LTD
Financier Address	JALANDHAR, Jalandhar Punjab, Pin Code - 144001
Financier Valid To	14-MAY-2022
Financier Type	Hypothecation

Date: 12-Sep-2022

Secretary,
State/Regional Transport Authority
JALANDHAR RTA-Punjab

Permit (PSVP PERMIT) <https://rta.jalandhar.gov.in/val/vehiclereservation/psvp/PSV>
 Date of Approval: 18-Aug-2022

PAB 187900

GOVERNMENT OF JALANDHAR RTA
PUNJAB

PERMIT IN RESPECT OF PRIVATE SERVICE VEHICLE PERMIT (BUS)

PART-A

1. Permit No.	PB2022-PSVP-1814A
2. Name Of The Permit Holder	SANT BABA BHAG SINGH UNIVERSITY
3. Father's/Husband's Name	NA
4. Address	VILL. KHALA PO. RAHWANA, Punjab, Jalandhar-144033
5. The state or states of the area for which the permit is valid	
Region Covered	50KM FROM THE PLACE OF REGISTRATION
6. Purpose for which the Vehicle	
7. Type, Model and Capacity of Vehicles, including trailer and the alternative Trailers of articulated vehicle	
(i) Vehicle Type / Model	Bus/LPO 131554 CHASSIS
(ii) Seating Capacity	54
(iii) Regd. Lader Weight(Kg.)	14000
(iv) Registration Mark	PB08EY2158
(v) Make/Model	TATA MOTORS LTD/LPO 131554 CHASSIS
(vi) Chassis No.	MAT204001NFD02928
(vii) Service Type	Select Service Type
8. Validity of the Permit	From: 21-Jul-2022 To: 20-Jul-2027
9. Date of Replacement of Vehicle	
10. Parking Place	
11. Purpose of Journey	
12. Conditions	
(a) The MV shall be used by or on behalf of the owner for the purpose of carrying persons for, or in connection with, his Trade or Business otherwise than for hire and reward and this vehicle shall not be used for public purpose as required under Section 2(33) of M.V Act 1988.	
Vehicle Financier Details	
Financier Name	HDFC BANK LTD
Financier Address	JALANDHAR, Jalandhar Punjab, Pin Code - 144001
Financier Valid To	14-MAY-2022
Financier Type	Hypothecation

Date: 12-Sep-2022

Secretary,
State/Regional Transport Authority
JALANDHAR RTA-Punjab

Fitness Certificate Of Some Of University Buses Issued By RTO



Well Maintained Buses Of SBBS University





11. ANIMAL WELFARE

11.1. QUESTIONNAIRE

1	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	Cats, squirrels, Birds, Insects, Lizards, Snakes, Frogs
2	How many dogs in your area have undergone Animal birth control / Anti rabies vaccination	No dogs under this area
3	Does your institute have a Biodiversity programme?	Yes

The concept of animal welfare includes three elements: the animal's normal biological functioning (which, among other things, means ensuring that the animal is healthy and well-nourished), its emotional state (including the absence of negative emotions, such as pain and chronic fear) Animal welfare **covers the responsibilities that humans have when it comes to the treatment of animals in captivity.** There are many different situations where animals are held in captivity by people. From farms raising animals for food and zoos to laboratories that run animal testing and circuses, the range of different situations where animals are captive is vast and shocking. Animal welfare refers to the responsibility that humans have when it comes to the treatment of these animals.

At present In the SBBS University campus Jalandhar as surveyed no animal found except variety of birds and squirrels but these are not harmful to humans.

12. ENVIRONMENTAL LEGISLATIVE COMPLIANCE – WASTE MANAGEMENT

12.1. QUESTIONNAIRE

1	Are you aware of any environmental Laws Pertaining to different aspects of environmental management?	Yes
2	Does your institute have any rules to protect the environment	Yes Ban of plastic
3	Is Environmental Ambient Air Quality monitoring conducted by the institute?	No
4	Dose Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
5	Dose stack monitoring of DG sets conducted by the Institute?	No
6	Is any warning notice, letter issued by state Government bodies?	No



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7	Dose any Hazardous waste generated by the Institute? If yes explain its category and disposal method	No
8	Is any Bio medical waste generated by the Institute? If yes explain its category and disposal method	No

Principles of Environmental Enforcement (Implementation and Enforcement of Environmental Law (IMPEL), 1992) have defined legal compliance as: "Full implementation of applicable environmental legislation. Compliance occurs when requirements are met and desired changes are achieved."

To help build a culture of improved voluntary compliance within industry and improve compliance practices the department and has published guidance material and supporting information to help industry understand how to meet its environmental obligations and achieve good environmental practices.

- Environmental policy. Environmental Policy should reflect the commitment of top management to comply with applicable legal requirements and other requirements, supported by adequate resources.
- Legal and other requirements (4.3.2) Clause 4.3.2 of ISO 14001 states that the organization should know applicable legal requirements related to their activities and services.
- The objectives and targets (4.3.3) ISO 14001, in its clause 4.3.3, states that when an organization establishes environmental objectives it should take into account its legal and other requirements.
- Evaluation of **compliance** (4.5.2) Periodic evaluation of **compliance** is important, because even if your organization is in **compliance** today you cannot be sure that it will be in **compliance** in six months or a year.



13. GENERAL

13.1. QUESTIONNAIRE

1	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	YES
2	Does your institute have any rules to protect the environment? List possible rules you could include.	YES
3	Does housekeeping schedule in your campus?	YES
4	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	
5	Dose Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	YES
6	Dose Institute participated in National and local Environmental Protection Movement?	YES
7	Dose Institute has any Recognition /certification for environment friendliness?	NO
8	Dose Institute using renewable energy?	YES
9	Dose Institution conducts a green /environmental audit of its campus?	YES
10	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	YES



14. RECOMMENDATIONS

- Environmental Monitoring i.e. (Ambient Air Quality monitoring) & Stack Monitoring of DG sets need to be conducted regularly by Punjab State Pollution Control Board, approved laboratory with frequency of six month.
- Campus must form a **Green Campus Club** and Environment Committee for regulating eco-friendly initiatives at campus premises and periphery as already NSS team exists and can be fully utilized for the purpose of achieving a healthy environment beneficial for all.
- As per Waste Management plan more effective way out for disposing solid waste out of campus on daily basis is need of the hour.
- SBBS University Jalandhar campus is extracting ground water for using for drinking and other purposes. It is highly recommended that they install a metering system/permission from CGWA for regulating and monitoring the same as it is a precious resource and accountability is must for regulating consumption of same.
- Regular maintenance of Solar Panels is advised to be done strictly to get the best of natural resources.
- Since SBBS University is spread in a spacious atmosphere, it is proposed that a Micro Forest be set up in the campus with the help of local Forest Department.

15. ENVIRONMENT CONSCIOUSNESS PROGRAMS



Various Programs Like Earth Day, Van Mahotsav Etc Are Celebrated in SBBS University Campus for Awareness Of All Concerned



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Cleanliness Drives Under Swachh Bharat Abhyan Are Regularly Held By Students Of SBBS University In Campus And Surrounding Villages For Awareness Of Healthy Environment



Tree Plantations Are Done and Other Environment Related Occasions Are Celebrated by Staff and Students in SBBS University Campus





Plantation Drive by the Department of Physical Education

To promote environmental awareness, conservation, and sustainability, a plantation drive focusing on medicinal plants was organized by the Environment Sustainability Management (ESM) Cell under the aegis of IQAC. The event, held on November, 17, 2023 (Friday) in the Sant Baba Malkit Singh Ji Memorial Botanical Garden, was undertaken by the teaching staff members of the Department of Physical Education at Sant Baba Bhag Singh University. The initiative was carried out with the blessings of the Reverend Chancellor Sant Manmohan Singh Ji and under the guidance of Hon'ble Vice-Chancellor, Prof. (Dr.) Dharmjit Singh Parmar.

Students and faculty members collectively planted more than 50 medicinally important plants. Medicinally important plants such as Kalmegh (*Andrographis paniculata*), Siris Tree (*Albizia lebbek*), Indian Laburnum (*Cassia fistula*), Indian Gooseberry (*Emblica officinalis*) and Indian Olibanum (*Boswellia serrata*) were planted during the plantation drive. Dr. Indu Sharma, Associate Professor in the University Institute of Sciences (UIS) appreciated the plantation drive and also briefed about the importance of these medicinally important plants.



Glimpses of Plantation Drive by the Department of Physical Education & Sports



Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030
Website: www.sbbsuniversity.ac.in Phone: 0181-2711163 Fax: 0181-2711555

Academics), Mr. Roop Singh (Dy. Registrar), and Deans of Institutes were also present. Dr. Vikrant Jaryan (UIA) conducted the stage.



**Glimpses of celebration of International Day of Biological Diversity
and World Environment Day**



A Poly House And A Green House Has Been Established In Campus In Which Various Plantations Are Done To Take Care Of Needs Of Hostel Residents As Well As For Educational Purpose Of Students





A Dedicated Horticulture Department Takes Care of Horticulture Farm in Campus Serving Both for Community and Agriculture Students





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16: CONCLUSION

Considering the diversity of Sant Baba Bhag Singh University, Jalandhar, there is significant environmental research both by faculty and students. The environmental awareness initiatives are substantial. The installation of solar power plant and solar water heater system are noteworthy. Besides, environmental awareness program initiated by the administration shows how the campus is going green. Few recommendations are added to curb the menace of strategic management using eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus & thus sustainable environment and community development

DocuSigned by:

Rakesh Kumar

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For R.K. Electricals & Energy Audit Services

*****END OF THE REPORT*****



Project Title: Environment Audit Of "SBBS University, Jalandhar"

17. Credentials in r/o "R.K. Electricals and Energy Audit Services"

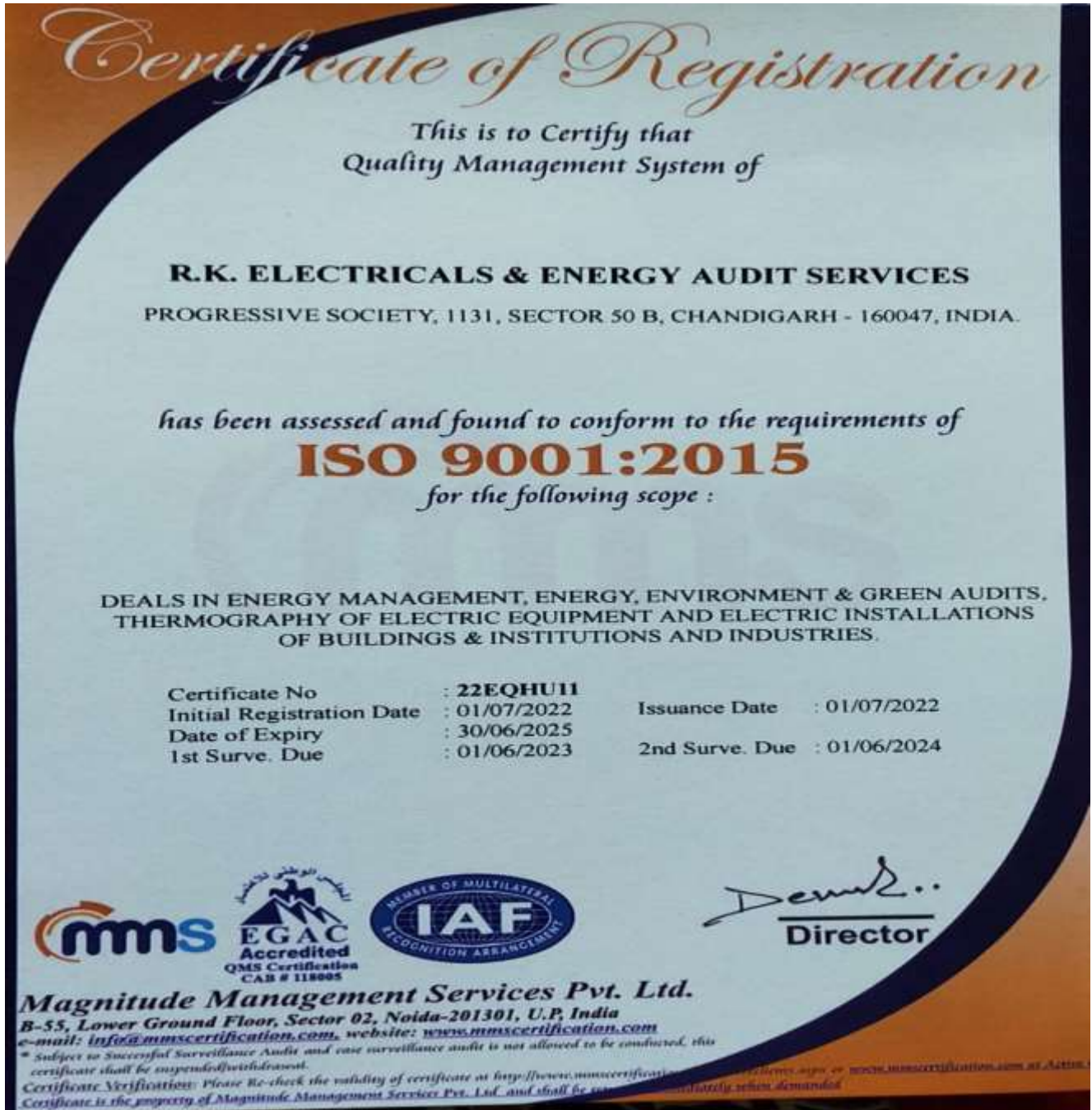
a) Certificate ISO 50001:2018(Energy Management Services)





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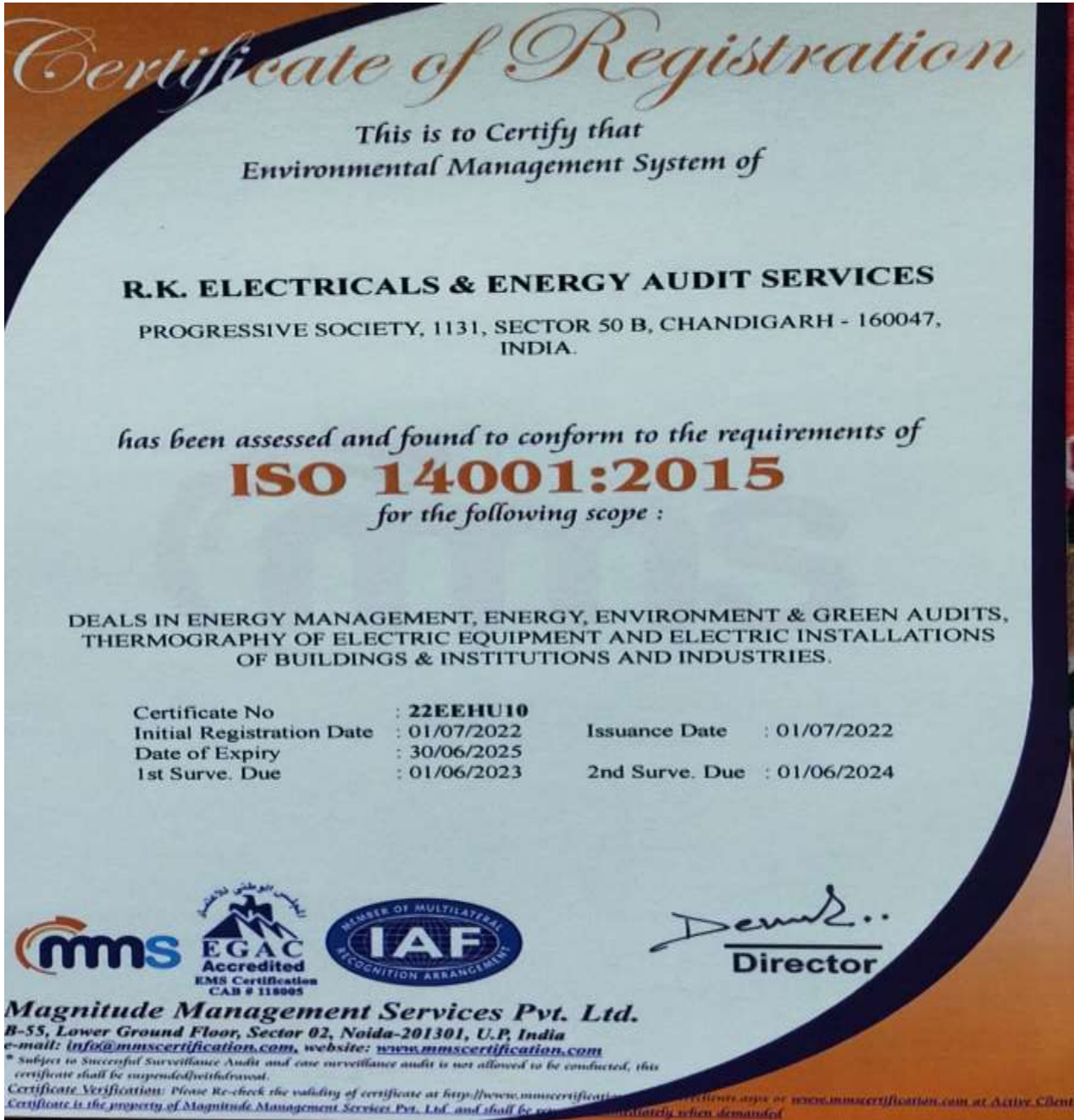
b) Certificate ISO 9001:2015(Quality Management System





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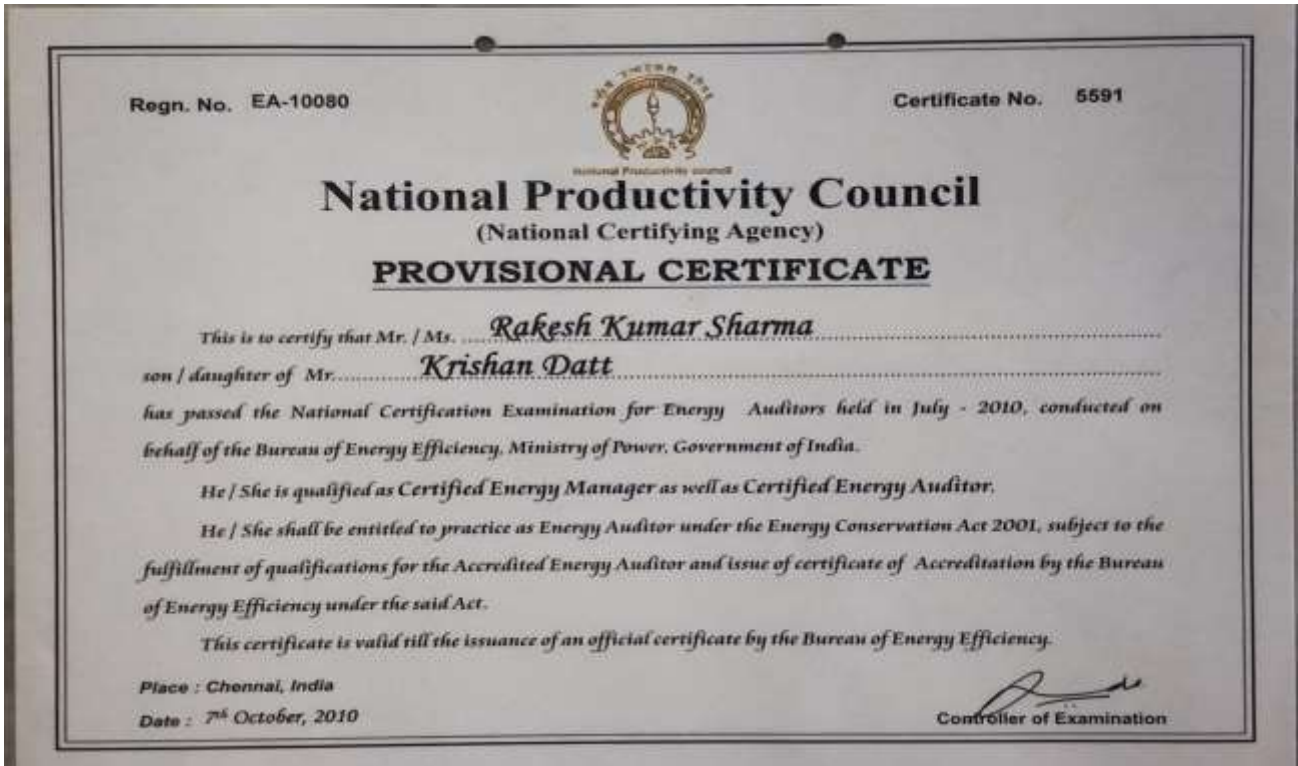
c) Certificate ISO 14001:2015 Environment Management System





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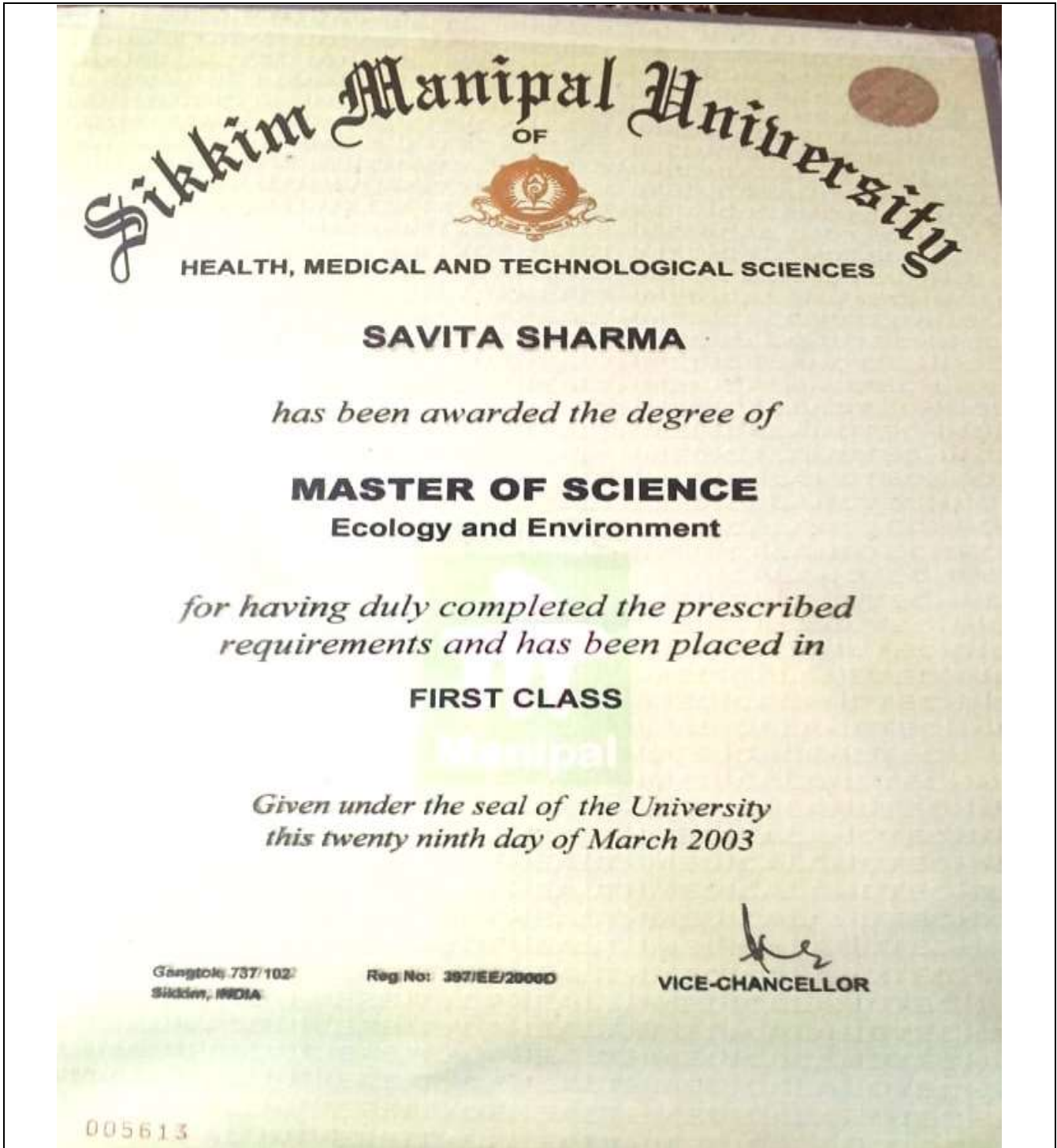
d) Certificate of Energy Auditor MoP GoI



e) Certificate of IGBC Accredited Professional (IGBC India)



f) Certificate of Ecology & Environment





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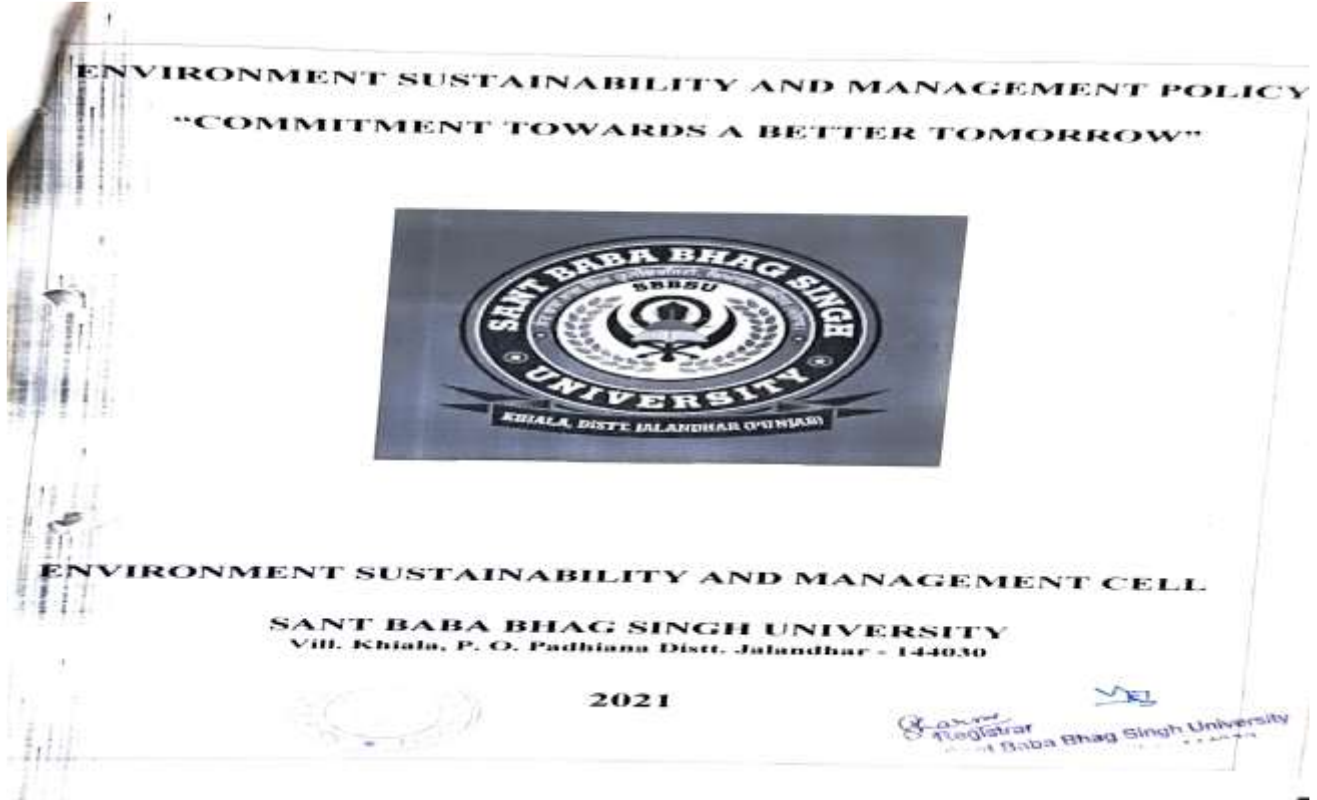
g) Certificate of Electrical Engg.



h) Award certificate



Annexure A: Environment Sustainability and Management Policy of SBBS University:



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Sant Baba Bhag Singh UNIVERSITY

1. VISION: The ESM cell envisions to embed an outstanding environmental sustainability performance and serve as a voice and vehicle for improvement along with the enhancement of the environment.

2. MISSION:

- The ESM cell is committed to addressing environmental issues in cost- effective manner while following a disciplined approach to achieve sustainability.
- It aims at educating the staff and students to contribute effectively towards the welfare of the environment.

3. KEY PRIORITY AREAS:

For the assurance of the sustainable environment goal, the key areas of focus shall be:

1. Transforming the campus into ECO-Campus by enhancing the beauty of the university campus.
2. Solid Waste management through compost program.
3. Conservation and Judicial utilization of Energy.
4. Installation of Solar Panels.
5. Rainwater harvesting Projects.
6. Provision of a safe and healthy environment for the staff and students.
7. Organizing awareness campaigns to make the students and staff environment conscious.
8. Sensitizing the communities in the vicinity regarding the adverse effects of their activities on the environment.
9. Integrating sustainable development and environmental management courses in the curriculum of the students.
10. Establishment of multidisciplinary research projects to tackle the environmental issues at local, national and global levels.
11. Incorporation of Green Audit as an indicative tool to measure the implementation of sustainable development of the university.



[Handwritten signatures and dates]
 14/03/2024

ENVIRONMENT SUSTAINABILITY AND MANAGEMENT CELL



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4. Policy for the Beautification of the campus

SBBSU campus is attractively designed, has well-maintained lawns, gardens, trees with a positive and peaceful environment. The campus acts as a second home to all the students and staff. A beautiful and vibrant campus ushers in an energetic and positive atmosphere and instils a sense of unity and pride.

1. The landscape of university is beautified with the avenue trees along all the roads; shrubs and lush green lawns and sports ground inside the campus. The canopy of the big trees provides the home for many birds and small animals which resides inside the campus. Each block has its own small garden which has trees, ornamental shrubs and flowering plants. The gardens are maintained by the gardener and supervisor and an internal committee was constituted to further beautify the campus.
2. The university is developing a botanical garden which spread in an area of 4.5 acre land. The Botanical garden is further subdivided into many sections and designed as per Bentham and Hooker Classification. The botanical garden has separate sections for monocots, dicots, gymnosperms and pteridophytes. It also contains arboretum, cactus and succulent section, palm garden, rose section, floriculture section, Hydrophyte section, medicinal and aromatic garden, bamboo section and Palm garden. Presently Botanical garden is under construction and have 90 plant species. Beside that university is also developing the orchards inside the campus. 400 plants of 10 fruits plant will be planted inside the orchard of the campus.
3. University have many seasonal flowering species such as Petunia, Phlox, Zinnia, Stocks, Sweet William, Calendula, Gazania, Poppy, Nasturtium etc. tree species, Alstonia, Jacranda, Acacia, Arjun, Stocks, Bottle brush, Drek, Neem, Shisham, Peepal and Banyan etc. fruit trees Mango, Guava, Jamun, Banana, Litchi etc.. Medicinal plants, Ashwagandha, Tulsi, Neem, Aloe vera, Glee, Arjun, Trimera and Karri Patta etc.
4. The University shall take steps to display the common names and scientific names on the trees and plants inside the campus for convenient identification of the flora.
5. The students will be motivated to participate in a community garden where they will grow organic products and educate campus about healthy living.

[Handwritten signature]
 Registrar
 Sant Baba Bhag Singh University
 Jalandhar-144030



ENVIRONMENT SUSTAINABILITY AND MANAGEMENT CELL



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6. Energy Conservation Policy

To exhibit our commitment towards environmental management and sustainability, certain measures should be implemented for energy conservation on the campus. SBBSU will adopt and practise various strategies aimed at effective and optimum energy utilization whilst curtailing its expenditure.

1. Firstly, operate the electrical appliances only when needed. Switch off when not in use like PCs, fans, bulbs, projectors, printers.
2. In the classrooms and hostel rooms, CFL bulbs have been installed because its durability is more, consumes less energy and saves money. Efforts should be made to maximizing the use of natural light whenever possible.
3. The office equipment purchased for the university should be Energy STAR labelled products. Such rated devices cut down up to 70% of energy costs in comparison to the average electronic equipment.
4. Reduction in the number of office equipment and encouraging the use of facilities such as printers, computers at the central faculty labs. All equipment should be turned off at the end of working hours.
5. The use of air conditioners should be minimized.
6. The university already provides E-rickshaw services to get around the campus which is more energy-efficient than the conventional autorickshaws.
7. Energy-efficiency initiative has been taken by SBBSU by shifting to a renewable energy source via the installation of solar panels. Solar energy not only limits expenses but also reduces carbon emissions, thus providing a clean and reliable energy source. The university currently runs 100 kW of solar panels and should be upgraded in the future.
8. Water management is another factor that is responsible for effective energy management and conservation. The following steps should be considered to save water:
 - a. Avoiding unnecessary wastage of water.
 - b. Checking for any leaks or water dripping points and immediate reporting of the same to the concerned authority.

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- c. The rainwater harvesting initiative will be taken by university by capturing the rainwater. The rainwater can be collected on the rooftop of all its buildings and discharge into storage tanks for using it in the watering of the gardens and lawns.
- d. Start the water awareness campaign under the title "SAVE WATER, SAVE LIFE" to educate and sensitize everyone towards saving water.
9. Any suggestions or recommendations regarding the energy conservation by faculty, staff, and student should be addressed to the ESM cell, SBBSU.
10. Inclusion of energy conservation agenda in the student orientation programs.

7. Green Campus Initiative Policy

7.1 Policy for restriction of automobiles in campus

The university is committed to restrict the unnecessary movement of automobiles in the campus so that pedestrian will feel comfort inside the campus. University has developed certain guidelines to restrict the automobiles inside the campus as

1. The parking for two-wheeler and four-wheeler is provided near gate for students and staff separately and all are encouraged to use pedestrian paths inside the campus.
2. A separate parking is provided for block number 7 which is far away from main campus in the university.
3. Barricade and speed breakers were installed to check/limit the speed of vehicle and to stop the unnecessary movement of automobiles inside the campus of the university.
4. University also provides e-rickshaw to the staff and students for visiting the block 7 and agriculture farm which is far away from the main campus.
5. No vehicle will be given entry without the proper driving license and helmet (in case of two-wheeler) and seat belt (in case of four-wheeler) inside the campus.
6. All staffs and students follow the parking rules as per notice in the parking area. A separate parking will be provided for bicycle inside the campus.
7. Visitor vehicles are not permitted inside the campus without gate pass and their parking is provided outside the university gate. Gate pass will be provided to the needful visitor at the university gate.

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8. Vehicles will be provided to disable person or old age visitors from the main gate on request.
9. If students want to use their own vehicle for transportation from home to university they should deposit declaration form duly signed by their parents and obtain the vehicle pass from the transportation officer/ registrar office.
10. Inside the campus the speed of the vehicle is restricted to 30 Km/hr. On violation the speed limit the vehicle will be seized by the transportation office.
11. No students are allowed to go outside the campus during working hours of the university without producing the valid gate pass duly signed by their class incharges, CoD and Deans of the institute.
12. The movement of staff and students are under the surveillance of CC cameras, covering the main gate.
13. A committee is constituted to monitor the guidelines for automobiles inside the campus. Complaints and violation of the above guidelines will be handled by the committee. After the meeting they will decide the serious and disciplinary action to be taken against the offenders.

7.2 Policy for use of Bicycles/ Battery Power vehicle and pedestrian pathway

The university is committed to reduce the air pollution inside the campus and to fight back the increasing air pollution following initiatives has been taken.

1. Many students and staff living nearby villages prefer to use bicycle as a mode of transport for attending university.
2. University provides the separate parking for bicycle in each block of the university. It will also provide the bicycle to staff and students from main gate on the basis of fare per hour inside the campus for transportation as a green initiative.
3. Use of bicycle is environment friendly and help in the reduction of air pollution and also increases the health benefit.
4. University developed the pathways inside the campus for pedestrians. These pathways serve as a shortcut to different blocks and discourage to use automobiles inside the campus.

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- 5 All pathways are lined with trees inside the university campus so that the students and staff experience comfort in walking through pedestrian pathways
- 6 The university provides e-rickshaw to the staff, students and visitors as a shuttle to transport them inside the university blocks
- 7 The entry of unnecessary vehicle is restricted so that student, staff and visitor can walk with comfort inside the campus.

7.3 Policy to ban the use of plastic

University is committed to ban the single use plastic such as plastic bottles, polythene bags, spoon, and straws. However, university is trying to create awareness among the students, staff and vendors to reduce the plastic waste and completely stop the use of single use plastic. The policy for banning the single use plastic inside the campus as follows

- 1 A committee is constituted inside the campus to create the awareness among student and staff about the use of plastic.
- 2 The university is trying to tackle the plastic waste problems with UNEP programme of 3Rs i.e. Reuse, Reduce and Recycle.
- 3 Two types of bins are kept inside the campus. Green colour bins are kept for organic waste and blue colour bins are kept for single use plastic, wrappers and other plastic waste
- 4 Organic waste can be converted into compost in vermicomposting unit. While single use plastic waste is collected and sold in the nearby recycle units
- 5 Student, staff and visitors are encouraged to carry cloth bag instead of polythene and their own bottle for drinking water.
- 6 Awareness programmes are conducted to create awareness about the harmful impact of plastic and its management through 3Rs i.e., Reuse, Reduce and Recycle.


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8. FUTURE GOALS:

1. Survey of Green Flora Cover in the campus.
2. To identify gaps and suggest recommendations to improve the Green Campus status of the institute.
3. Engagement of local farmers on campus.
4. To execute good, protracted waste management strategies to extenuate gross waste generation and to increase recycling and reuse of waste products.
5. Enhance the alertness for environmental guidelines and duties among students.
6. Making of "Eco club/Nature club" with the group of students for enhancing the scenic beauty of the campus.
7. These clubs shall regularly assess the environmental condition of the campus.
8. Propose a system for converting biodegradable waste especially mess waste into vermicompost/composting which is a useful resource. The vermicompost produced is used in nurseries/gardens and agriculture fields of the University.
9. Investment in shifting towards the renewable energy sources in a systematic and affordable manner.




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