



**SANT BABA BHAG
SINGH UNIVERSITY**



ENVIRONMENT AUDIT REPORT

PREPARED BY
EHS ALLIANCE SERVICES

CONTENTS

AUDIT CERTIFICATE	2
ACKNOWLEDGEMENT	3
DISCLAIMER	4
CONTEXT & CONCEPT	5
INTRODUCTION	6
OVERVIEW OF UNIVERSITY	7
AUDIT OBJECTIVES	11
AUDIT PARTICIPANTS	11
EXECUTIVE SUMMARY	12
GENERAL INFORMATION OF UNIVERSITY	13
WASTE MANAGEMENT	14
GREENING CAMPUS	16
ENERGY CONSERVATION	17
WATER & WASTEWATER MANAGEMENT	18
AIRQUALITY MANAGEMENT	19
LEGISLATIVE COMPLIANCE	19
INITIATIVES TAKEN BY UNIVERSITY	20
CARBON FOOTPRINT OF CAMPUS	20
ENVIRONMENT COMMITTEE	21
RECOMMENDATION	22
CONCLUSION	23
REFERENCE	23
TRANSPARENCY OF THE REPORT	24
ANNEXURE – PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS	25



Certificate –Environment Audit



CERTIFICATE No. EHSAC2119

CERTIFICATE

M/s Sant Baba Bhag Singh University

Village Khiala, P.O Padhiana, Distt. Jalandhar-144030

Has been assessed by us for the comprehensive study of environmental impact on institutional working framework to fulfill the requirement of

Environment Audit

The environment protection initiatives carried out by the University have been verified on the report submitted and was found to be satisfactory.

The efforts taken by administration, faculty, students at the campus and local community/adopted villages in the area of environment health and sanitation, greenery, waste management, and energy conservation are highly appreciated and commendable.

Date of Audit: 16 Aug, 2021


Puneet Kaushik
For EHS Alliance Services

A circular blue stamp with the text 'EHS ALLIANCE SERVICES' around the perimeter and a small star at the bottom.

EHS Alliance Services

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Acknowledgement

EHS Alliance Services audit team thanks the management of Sant Baba Bhag Singh University for assigning this important work of Environment Audit. We appreciate the co-operation to our team for completion of study.

Our special thanks are due to:

- Dr. Dharmjit Singh Parmar - *Vice-Chancellor*
- Dr. Harpeet Kaur - *Director IQAC*
- Dr. Vikrant Jaryan - *Dept. of Botanical & Environmental Sciences*

We are also thankful to the staff members for giving us necessary inputs to carry out this very vital exercise of Environment Audit, who were actively involved while collecting the data and conducting field measurements.



Disclaimer

EHS Alliance Services Environment Audit Team has prepared this report for Sant Baba Bhag Singh University based on input data submitted by the representatives of University complemented with the best judgment capacity of the expert team.

While all sensible care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

If you wish to distribute copies of this report external to your organisation, then all pages must be included.

EHS Alliance, its staff and agents shall keep confidential all information relating to your organisation and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies. EHS Alliance staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.



Vijay Singh
Lead Auditor



Puneet Kaushik
EHS Consultant & Lead Auditor EMS

Context and Concept

In India, the process for environmental audit was first mentioned under the Environment Protection Act, 1986 by the Ministry of Environment of forests on 13th march, 1992. As per this act, every person owning an industry or performing an operation or process needs a legal consent and must submit an environmental report or statement.

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory from the academic year 2019–20 onwards that all Higher Educational Institutions should submit an annual Green, Environment and Energy Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through Carbon Footprint reduction measures.

Management of, Sant Baba Bhag Singh University decided to conduct an environmental audit. Dr. Harpreet Kaur, Director, (IQAC Team), Sant Baba Bhag Singh University coordinated with the auditor's team and provided necessary data and information for the audit.

The term 'Environmental audit' or 'Green audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Green Audit, many leading companies/institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

The outcome of audit should be established with concrete evidence that the measures undertaken and facilities in the institution under green auditing. This audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution, Energy Management & Carbon Footprint etc. being implemented by the institution. The concepts, structure, objectives, methodology, tools of analysis, objectives of the audit are discussed below.



Introduction

Nature is very precious gift for all life forms. Disturbance in the nature causes environmental problems increasing day by day due to development of urbanization and industrialization on earth. Due to unplanned utilization of resources, the planet is facing tremendous pressure resulting increase in global temperature. Therefore, there is an urgent need to plan the consumption of the resources in sustainable manner to conserve natural resources for future generation.

Sustainable development is becoming popular in the world for saving the earth. Utilizing resources in judiciously can save the earth's precious resources. Measurement of environmental components is the most effective step to conserve and protect natural resources.

Environmental auditing had begun in the early 1970s with provision of civil lawsuits for non-compliance with environmental regulations. Environment auditing involves on site visit, collection of samples, performing analyses, and report results to competent authorities. Industry, the corporate world is initiating auditing for saving natural resources. Academic institutions also can contribute to the preservation and conservation of resources within their premises.

In this "Environment Audit" report would help everyone to think about preserving resources, show willingness to learn their

importance, adopt steps to minimize resource use and set an example for others to follow the path

of eco-friendly practices to achieve the goal of sustainable development. Effective implementation of environmental auditing helps in minimization of environmental risks at low cost.



Overview of University

Sant Baba Bhag Singh Memorial Charitable Society, under the dynamic leadership of Sant Baba Malkit Singh ji, has been providing basic infrastructure facilities to the people living in the areas of the vicinity of Dera Sant Pura Jabbar, near Adampur Doaba, Dist. Jalandhar, by constructing bridges and roads, providing street lights to villages, etc. The Society started providing formal education by setting up SBBS Institute of Engineering & Technology in 2003, followed by the setting up of SBBS International School in 2004, SBBS Institute of Education (2005), SBBS Institute of Nursing (2005), SBBS Research & Development Centre (2010), SBBS Post Graduate College (2011), SBBS Public School, Binjon (2011). Rural Healthcare is being 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 dias 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 vide the Sant Baba Bhag Singh University Act, 2014.



The institutions have made significant contributions in the field of education, which is visible in excellent results and placement records. With state of the art infrastructure catering to the needs of students, a pollution and drug free campus, focus on excellence

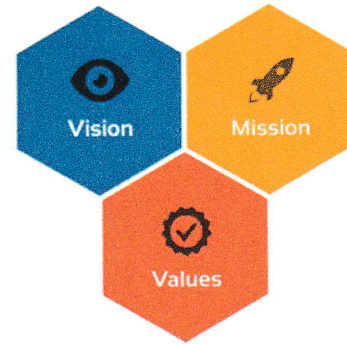
in teaching, active involvement of students & faculty in co-curricular and extracurricular activities, including NCC & NSS, industrial visits and a remarkable presence in the field of sports amongst educational institutions, along with a culture of imbibing ethical values, Sant Baba Bhag Singh University is an ideal place to be in to choose for quality education.

The University offers opportunities for students to get education & knowledge in below listed departments

UG Courses	PG Courses	Ph.D
✓ B. Physiotherapy	✓ LLM	✓ Computer Science & Engineering
✓ B.A.	✓ M.A. Punjabi	✓ Electronics & Communication Engineering
✓ LL.B	✓ M.COM	✓ Computer Science Applications
✓ B.COM (Hons)	✓ M.E	✓ Management
✓ B.COM (Regular)	✓ M.P.E.S.	✓ Commerce
✓ B.ED	✓ M.Sc. (Hons.) Mathematics	✓ Law
✓ B.P.E.S.	✓ M.Sc. Ag. (Agronomy)	✓ Education
✓ B.P.Ed.	✓ M.Sc. Fashion Design	✓ Physical Education
✓ B.Sc. (Animation & Multimedia)	✓ M.Sc. Hons. Zoology	✓ English
✓ B.Sc. (ATHM)	✓ MBA	✓ Punjabi
✓ B.Sc. (Fashion Design)	✓ MCA M.Sc. IT	✓ History
✓ B.Sc. (Hons) Agriculture	✓ MHMCT	✓ Mathematics
✓ B.Sc. Medical/ Life Science	✓ MTTM	✓ Chemistry
✓ B.Sc. Medical Laboratory Science (MLS)	✓ M.A. English	✓ Physics
✓ B.Sc. Non-Medical	✓ M.A. History	✓ Botany
✓ BA	✓ M.Sc. (Hons.) Chemistry	✓ Zoology
✓ BBA	✓ M.Sc. (Hons.) Physics	✓ Agriculture
✓ BCA,	✓ M.Sc. Ag. Horticulture (Vegetable Science)	
✓ B.Sc. (IT)	✓ M.Sc. Ag. (Soil Science and Agriculture Chemistry)	
✓ BHMCT	✓ M.Sc. Ag. Horticulture (Fruit Science)	
✓ Computer Science	✓ M.Sc. MLS (Clinical Microbiology)	
	✓ M.Sc. MLS (Clinical Biochemistry).	
	✓ M.Sc. (Hons.) Botany	
*SBBSU also provides various diploma and certificate courses.		

Sant Baba Bhag Singh University

Mission | Vision | Objectives



MISSION

To achieve the best possible academic standard by exposing every student to a holistic educational experience in an active and dynamic environment. To develop self-expression, self-reliance, confidence, self-esteem and eventually endorse self-directed learning which is befitting the life in the rapidly changing world of the new millennium.

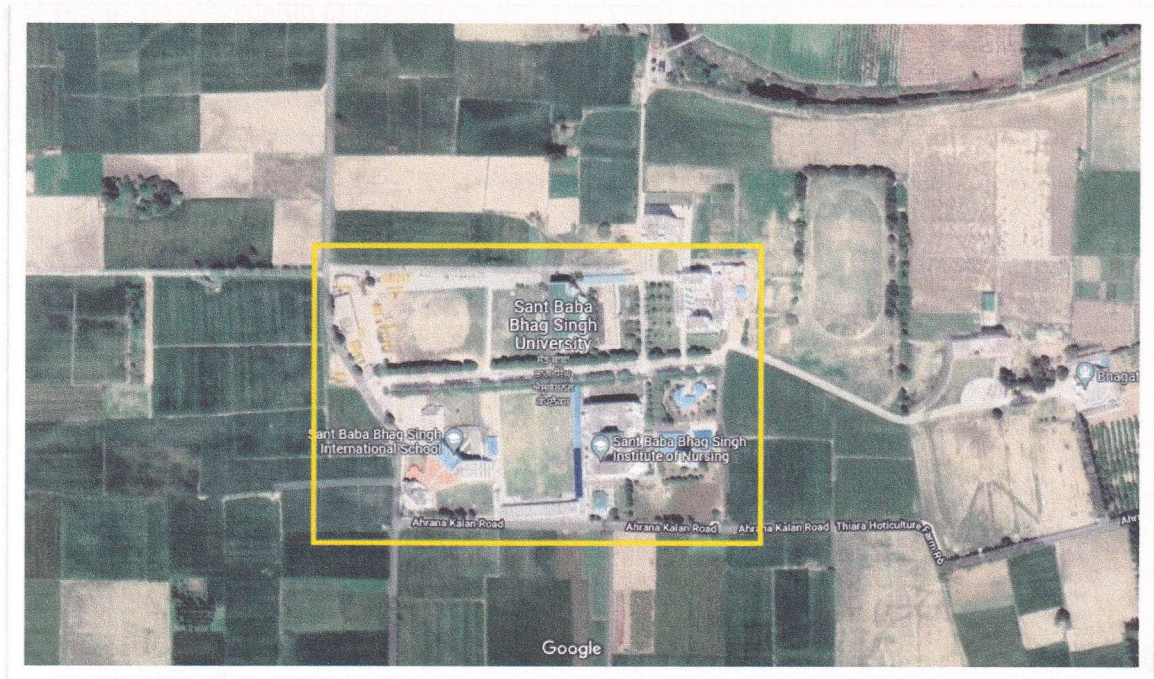
VISION

To encourage learners to be educated, acquire knowledge and wisdom so as to live a happy, successful and meaningful life

OBJECTIVE

- To address the educational needs of the society through participatory mechanisms.
- To develop curriculum addressing challenges of the stakeholders for finding appropriate technology options to promote a just and equitable economic and social development.
- To develop a pool of researchers and academicians across the disciplines interested in and working for rural communities leveraging academic inputs for higher education.
- To train manpower to meet with the scientific and industrial needs- locally and globally.
- To pay special attention to the improvement of the social and economic conditions and welfare of the people of the region.
- To inculcate entrepreneurial spirit among the girls belonging to rural areas.

Sant Baba Bhag Singh University Location



Geo Coordinates from Google maps: 31.4220953, 75.808947

Audit Objectives

The broad aims/benefits of the eco-auditing system would be

- To systematically identify the environmental aspects & components in the campus
- To quantify, record and analyse the identified aspects and components of environmental diversity of the campus.
- To deduce the impact of the environmental practices caused within and outside of the concerned campus.
- To establish baseline data or compare the past trends and predict future impacts
- To recommend possible measures for improvement and highlight best practices

Audit Participants

On behalf of University:

Name	Position/Department
Dr Dharmjit Singh Parmar	Vice Chancellor of SBBS University
Dr. Harpreet Kaur	Director, IQAC
Dr. Vijay Dhir	Director, R & D
Dr. Vikrant Jaryan	In charge NAAC Criteria 7/ Head of Department of Botany
Dr. Aksh Sharma	Coordinator, Environment Sustainability and Management (ESM)
Capt. Sukhdev Singh	Manager Facilities In charge
Dr. Kumari Manisha	Member, ESM Cell
Ms Neha Kapila	Assistant Professor (EE)
Er. Praveen Kaur	Assistant Professor (CE)
Mr. Mandeep Singh	Assistant Professor (EE)
Dalvir Singh	Lab Technician

On behalf of EHS Alliance Services:

Name	Position	Qualification
Vijay Singh	Lead Auditor	M.Sc. M. Tech, PGDISM, Lead Auditor ISO 14001:2015, OHSAS 18001:2007, BEE Energy Auditor
Dr Uday Pratap	Co - Auditor	Ph.D , PDIS, QCI - WASH



Executive Summary

The environment audit is a snapshot 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 out-dated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. Our approach is to promote a Green Campus to inculcate the sustainable value systems among the students, so that they carry the learning's and practices with them in their future endeavours. This will ensure that Sustainability and Environmental practices get embedded in all the institutions and organisations in the country.

A Green Campus is a place where environmentally friendly practices and education combine to promote sustainability in the campus which ultimately offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

This is the very first environment audit of University for doing their bit towards environmental protection and environmental awareness at local and global front. The Audit criteria are environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire was used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.



General Information of University Campus

Basic Information

Does any Environmental Audit conducted earlier?

Green audit was conducted earlier within the university campus. However, the Environment Audit has been conducted for the first time.

What is the current total strength of students and teaching & non-teaching staff?

Population	Male	Female	Total
Students	1617	1626	3243
Teachers	50	70	120
Non-Teaching Staff	134	46	180
Total	1801	1742	3543

What is the total number of working days of your campus in a year?

There are one hundred and eighty (180) working days in a year.

Where is the campus located?

The campus is Located in village Khiala, PO Padhiana, Distt – Jalandhar - 144030

Which of the following are available in your institute?

Garden area	Available
Play ground	Available
Kitchen	Available
Toilets	Available
Garbage Or Waste Store Yard	Available
Laboratory	Yes
Canteen	Available
Hostel Facility	Yes
Guest House	Yes

Which of the following are found near your institute?

Municipal dump yard	Not in vicinity of institute
Garbage heap	No Garbage heaps
Public convenience	No
Sewer line	2 Km sewer line within campus
Stagnant water	No stagnant water
Open drainage	No
Industry – (Mention the type)	No
Bus / Railway station	Adampur, Jalandhar Cantt
Market / Shopping complex	No

Waste Management

Types of Waste on University Campus

To create effective waste management plans, University first need to know the types of waste they produce. Below, we have compiled a list of various kinds of waste commonly generated on institutional campus:

- 1. Food Waste** - University campus generates food waste. The average mess and canteen generates approximately <10 kg of food waste a day. The reasons for food waste on an educational campus may be over purchasing food to ensure a sufficient supply and then throwing it away, especially in all hostel messes where plentiful stores are essential. And in the cafeteria or hostel mess, students may pile food onto their ample trays, find it unappealing once they sit down and dutifully scrape it into the garbage. Immediate attention is given by ESM cell to the food waste minimization practices, like zero food waste policy in canteen and tuck shops in the campus.
- 2. Recyclable Paper, Cardboard, Plastic, Glass and Cans** - Campus tends to produce vast quantities of these recyclables. Even in the digital age, many students, professors and staff members still prefer handwritten notes and end up with piles of unwanted paper once their courses and projects are complete. The snacks so essential to late-night studying or socializing tend to come in recyclable plastic, glass or aluminium containers. And shipments of necessary items throughout the year are likely to arrive in recyclable plastic and cardboard packaging. Quantitative analysis should be carried out to reduce waste in coming academic sessions. Some proactive measurers initiated by ESM cell like periodically quantitative analysis and further management towards zero waste targets.
- 3. Student Clothes and Housewares** - As we have mentioned above, many students find it more convenient to throw away their clothes and dorm furnishings at the end of the year than donate or recycle them. University has adopted a donation camp in summer and winter season to help needful people.
- 4. E-Waste** - Students and staff of the University actively participate in Electronic and electrical waste (e-waste) management and they dump the e-waste in e-waste collection box in the University or computer lab of the University. The collected e-waste (like discarded mobiles, keyboards, mouse, other computer hardware etc.) is given to a professional recycler certified by the Central Pollution Control Board (CPCB) or State Pollution Control Board/Committee (SPCB/SPCC). Being a bulk consumer, the Sant Baba Bhag Singh University files e-waste return with the State Pollution Control Committee along with authorized recycler, which is a rare and appreciable practice for an academic institution

Greening the Campus

University have developed 371946.57 Sq. Meter areas as Gardens. Average duration of 2-4 Hours' spend by students during winters. An independent horticulture department is maintaining landscaping of campus. There is total 6 staff deployed in horticulture. Plantation drive is frequently conducted by the University in and around the University campus. A wide diversity of fruiting and flowering saplings are planted which enrich the biodiversity of the University premise. Total 130 trees and 250 hedge plants planted in last Financial Year with more than 70% survival rate. In campus, saplings are distributed to Students and visitors at various occasions. Various Trees are Planted and owned by Visitors as well as students. Indoor plants also maintained by campus to reduce indoor pollution. An herbal garden is also maintained by the department of botany and agriculture. The Name plates are also displayed name of the plants. The details of greenery are given below:

Details	Count
Trees	790
Hedge Plants	3050
Grass Cover	371946.57 SQM



Above Image shows indoor plants in campus to provide good air quality

Water and Wastewater Management

List uses of water in your institute	Basic use of water in campus: Drinking – 85.2 KL/month Gardening – 189 kl/month Kitchen and Toilets – 672.8 KL/month Others – 255.7 KL/month Hostel – 2662.2 KL/Month Total = 2946.9 KL/Month
How does your institute store water? Are there any water saving techniques followed in your institute?	There are total 21 Overhead Water Storage Tanks with capacity of 2000 liters and 01 main overhead Water tank with capacity of 5 lakh liters, for storage of water and boosting within the university campus. Avoid overflow of water controlled valves are provided in water supply system. Close supervision for water supply system.
Locate the point of entry of water and point of exit of waste water in your institute. Entry and Exit-	7 Bore wells in campus. Exit- From Canteen, Toilets, bathrooms by covered drainage which is connected to (600 KLD) STP in campus area.
Write down ways that could reduce the amount of water used in your institute	Basic ways: <ul style="list-style-type: none"> • Close the taps after usage • Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage • Water Conservation awareness for new students
Does your institute harvest rain water?	Three modern rain water harvesting system are available.
Is there any water recycling System.	Not available

Rainwater harvesting (RWH) is the collection and storage of **rain**, rather than allowing it to run off. **Rainwater** is collected from a roof-like surface and redirected to a tank, cistern, deep pit (well, shaft, or borehole), aquifer, or a reservoir with percolation, so that it seeps down and restores the ground **water**. Total **7 RWH** units have been installed in campus with capacity of 10x15x6 = 900 Cubic Fit and total capacity in liters is 1,76,400 (Approx. in total)

Air Quality Management

Are the Rooms in Campus are Well Ventilated?	Yes, as per National Building Code, guidelines				
Window Floor ratio of the Rooms	Very Good, ample daylight utilization				
What is the ownership of the vehicles used by your campus?	Personal-owned vehicles only				
Provide details of school-owned vehicles?	Buses	Cars	Vans	Other	Total
No. of vehicles	19	15	1	1	26
No. of vehicles more than five years old	0	0	0	0	0
PUC done	Yes	Yes	Yes	Yes	Yes
Specify the type of fuel used by your campus's vehicles	Diesel-26				
Air Quality Monitoring Program (If Any)	No				
Details of DG Sets in campus	Yes, 2 Numbers of DG Set; The capacities of DG's are (550 and 160) KVA. All have acoustic enclosure canopy and stack height.				

Air Pollution Mitigation

The campus encourages the students to use public transport. There is no personal vehicle movement is allowed within the campus, except for goods and service movement periodically. The parking of staff vehicles is allowed at a designated space within the campus. Hence, air pollution due to vehicular movement is negligible. Paved roads and vegetation help in reducing dust pollution to a large extent Burning of waste within the campus is strictly banned.

Environmental Legislative Compliance

Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes, faculty members and administrative team is well aware of national environmental laws.
Does your institute have any rules to protect the environment? List possible rules you could include.	Yes, innovative initiatives are being taken by campus to reduce pollution and go green.
Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
Does Environmental Water and Wastewater Quality monitoring conducted by the Institute?	No
Does stack monitoring of DG sets conducted by the Institute?	Yes, by NABL approved lab.
Is any warning notice, letter issued by state government bodies?	Not Any,
Does any Hazardous waste generated by the Institute?	Yes, e-waste, waste oil, plastic waste managed by MOU with approved external agency (certificates attached in Annexure)

Initiatives taken by University

Renewable Energy - Solar power plant of capacity 110 KW is installed on building roofs is that will supply approx. 10% of total power in campus.

Biodiversity Conservation - Flora and fauna conservation program and awareness campaign organised as per the local geography.

Tree Plantation Drives - Two Drives Annually as well as Every Guest is honoured by Tree Plantation at Campus.

Ground Water Recharge - 7 units of Rain Water Harvesting System.

Air Pollution Reduction Personal Vehicles (Students) not allowed at campus

E - Waste Management - Tie up with external agency for e-waste management.

Solid Waste Management - Waste segregation and management by the third party and waste minimization practices adopted by the campus like avoidance of food waste, ban on plastic crockery in the campus.

Carbon Footprint - Emission & Absorption

Total Carbon Footprint (CO₂ emission per year, in metric tons)

1. Electricity used per year CO₂ emission from electricity	(electricity used per year in kWh/1000) x 0.84 =472480.64/1000x0.84 =396.87 ton
2. Transportation per year (car) CO₂ emission from transportation (car)	(Number of cars or buses entering University campus x 2 x approximate distance travelled by the vehicle inside the campus in kilometers x 240/100) x 0.02 =36x2x0.2x200/100x0.02 =.58 ton
Total CO₂ emission per year cumulative by electricity usage + car transportation (396.87+0.58) = 397.45 ton	

Carbon absorption by flora in the institution

There are around full grown 790 trees and 780 Semi-grown trees of different species, in

the campus.

Carbon absorption capacity of one full grown tree 22 kg CO₂. Therefore Carbon absorption capacity of 790 full-grown trees 790 x 22 kg CO₂ 17380 kg of CO₂, 17.38 tons of CO₂.

Carbon absorption capacity of small tree 6.8 kg CO₂. Therefore Carbon absorption capacity of 780 semi-grown trees 780 x 6.8 kg CO₂ 5304 kg of CO₂, 5.30 tons of CO₂.

There are approximately Hedge Plants 2270 of various species being raised in the gardens and grown in the areas where no buildings are built Carbon absorption of bush plants varies widely with their species. Certain bushes absorb very high level of CO₂ where as some others absorb very low level of CO₂. In the absence of a detailed scientific study, 200g of CO₂, absorption is taken per bush (in consultation with Environmental Science specialists).

Based on this, total carbon absorption of bushes is 2270 x 200 g | 4,54,000 g | 454 kg | .45 tons of CO₂

The lawns on the campus have buffalo grass, Mexican grass and indigenous grass species and cover a total area of 4003600 sq. ft.

Carbon absorption capacity of a 10 sq. ft. area of lawn is 1 g per day Therefore, carbon absorption by lawn area 4003600 x 0.1 g CO₂ = 400360 g | CO₂ 400.36 kg CO₂ per day, Total carbon absorption per year is 400.36 x 365 = 1,46,131.4 kg of CO: 146.13 tons of CO₂

Grand total of carbon absorption capacity of the campus is 169.27 **tons**. University is doing their best towards carbon neutrality.

Environment Committee

University has its Environment Sustainability Management Cell. Key members of committee are:

- | | | |
|----|--------------------|---|
| 1. | Dr. Aksh Sharma | Coordinator (Life Science) |
| 1. | Dr. Kumari Manisha | Member (Botany Department) |
| 2. | Ms. Sonia | Member (Life Sc. And Allied Health Sc.) |
| 3. | Ms. Pooja | Member (Commerce) |

Recommendations

- ✿ Eco-friendly parameters should be included in the purchase of articles and goods for the campus.
- ✿ Installation of more Solar panels for up to 100% of power consumption, Bore well water meter and water balancing is highly recommended along with the Electricity audit of the campus.
- ✿ Provide sanitary waste disposal facility by following the CPCB guidelines for management of sanitary waste -As per Solid Waste Management Rules, 2016.
- ✿ Installation of Incinerator should be done in campus, especially in girl's hostel.
- ✿ Increase in display of environment conscious poster/paintings/slogans in the building for spreading awareness amongst students.
- ✿ Increase the number of plantation drives.
- ✿ Messages should be displayed at various locations to Aware the People about Energy Savings. Use of Natural Lights & Natural Ventilation should be promoted.
- ✿ University should start in-house composting system at larger scale (vermi composting) and mechanical mulching composting in the campus
- ✿ Involvement of lower hierarchy staff is highly required in environmental awareness programmes and campaigns.
- ✿ Environmental parameters should be included in purchase policy to achieve cradle to grave approach for sustainability.
- ✿ We additionally suggest that the University may go for ISO 14001 certification.



Conclusion

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The Sant Baba Bhag Singh University has Environmental Committee for sustainable use of resources. Overall 70% of University campus is for landscaping. The audit has identified several observations for making the campus premise more environments friendly. The recommendations are also mentioned with observations for University campus team to initiate actions. The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but few things are important to initiate urgently are installation of water meter at bore well, water balance cycle, implementation of solar power panels and periodic inspection of buildings to increase the energy efficiency.

References

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices

Transparency of Environment Audit Report

Environment audit report is one of the useful means of demonstrating an organization's commitment to openness and transparency. If an Organisation believes it has nothing to hide from its stakeholders, then it should feel confident enough to make its green audit reports freely available to those who request them. As a basic rule, green audit reports should be made available to all stakeholders.

Annexure

SPRECO RECYCLING

Punjab Pollution Control Board authorized E-waste Collector

Deals in: Waste of Electronic & Electrical Equipments

Corporate Office : SCO13, Opp. Govt. High School, Mohinder Ganj Road, Rajpura, Patiala(PB)-140401, India
Processing Unit : D-45, Industrial Focal Point, Raikot, Ludhiana - 141109, Punjab, India

Helplines : 090412-99968, 083804-33051 | Email: sprecorecycling@rediffmail.com | Website : sprecorecycling.com

MEMBERSHIP AND E-WASTE OFF TAKE AGREEMENT

This agreement is made on 2nd day of February, 2021 between SPRECO RECYCLING, D-45, Industrial Focal Point, Raikot, Ludhiana-141106 (Punjab) herein after called Operator, Recycler, E-WASTE RECYCLING through its Managing Partner, Mr. Amanjot Singh.

AND

SANT BABA BHAG SINGH UNIVERSITY, Vill. Khiala, PO Padhiana, Distt. Jalandhar-144030 (Punjab) here in called Bulk consumer through its Registrar.

Whereas

1. SPRECO RECYCLING is engaged in collection of E-Waste and recycling authorized by Punjab Pollution Control Board for lifting of E-waste in the state of Punjab.
2. The Generator desires to get its E-waste, being generated as per the requirement of Punjab Pollution Control Board to be collected by the authorized recycler, to which the recycler has agreed on the terms and conditions in this agreement.
3. The generator shall not sell the E-waste to any other person or bill to any other person. In case the generator sells the E-waste to any other person other than Spreco Recycling, the present agreement shall be CANCELLED.
4. The generator shall ensure that the E-waste is packaged in a manner which enables it suitable for storage and transport and the labeling and packaging shall be easily visible and be able to withstand physical conditions and climate factors, such packaging and labeling should be in full compliance of the rules.
5. Through this agreement, Spreco Recycling commits to providing E-waste collection services to the said generator.



E-Waste Recycler agreement



SANT BABA BHAG SINGH UNIVERSITY

Vill. Khiala, P.O. Padhiana, Distt. Jalandhar - 144 030 (PB.)
Recognized by UGC under Section 2(f) of UGC Act, 1956.

Ref. No. SBBSU/16/1015

Dated 31/08/2016

MEMORANDUM OF UNDERSTANDING BETWEEN GURU NANAK SADH SANGAT CHARITABLE HOSPITAL, KALRA (GNSSCH) AND DEPARTMENT OF NATURAL SCIENCE, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR.

The Memorandum of Understanding (MOU) is effective from 1/09/2016 to 31/08/2021. Establish an affiliation by and between GURU NANAK SADH SANGAT CHARITABLE HOSPITAL, KALRA and DEPARTMENT OF NATURAL SCIENCE, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR.

DEPARTMENT OF NATURAL SCIENCE, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR, here in after referred to as First party & GURU NANAK SADH SANGAT CHARITABLE HOSPITAL, KALRA, Having expertise in the areas of Clinical Research, here in after referred to as Second Party, for the purpose of exchange of faculty, staff & students. Therefore said institutions are here in after referred individually as institute and collectively as institutes.

First party is situated at Khiala, Jalandhar, engaged in the providing education and related services. Second party is engaged in the business of providing Healthcare services and is running a multispecialty hospital namely Guru Nanak Sadh Sangat Charitable Hospital, Kalra.

Joint scope


- To provide one to six months training and internship to students enrolled with Sant Baba Bhag Singh University, Jalandhar.
- Attachment of staff for the purpose of curriculum development and review, upgrading of teaching and research skills.
- To collaborate for Clinical Research and to organize joint conferences/workshops/seminars/expert lectures as per the mutual discussion.
- Collaborative research as Co- supervising post- graduate students.
- Conducting study tours and joint consultancy work.

Call : 0181-2711163 | Fax : 0181-2711611

Website : www.sbb_suniversity.ac.in | Email : info@sbb_suniversity.ac.in

MoU for Bio-Hazards and Chemical disposal





JINDAL TRADING CO.
A Division of Unique Eco Recycle
(Authorized by Govt. of M.P.)
SPCB Registration No : E-Waste/Collection Center/Ldh/2016/F-22

Tin No: 03471130475
Dated : 01-04-2005
Cst No. 52244219 Dt.04-06-2004
Sco.86, New Grain Market,
Gill Road, Ludhiana (Punjab)
Mob. No: 98868-00966, Ph.0161-506325
Email : mohitjindal20@yahoo.com

Memorandum of Understanding(MOU)

This Agreement has presented by "SANT BABA BHAG SINGH UNIVERSITY." Village Khaila P O Padhiana, Dist. Jalandhar (PUNJAB). As party no. 1

AND

M/S JINDAL TRADING CO. (A DIVISION OF UNIQUE ECO RECYCLE) SCO-86, NEW GRAIN MARKET, GILL ROAD, LUDHIANA (PUNJAB). As party no. 2

Whereas 1st PARTY authorized 2nd PARTY for collection of electronic & electrical waste.


On the terms and condition of agreement read with the provisions of E-waste rules & supervisions of CPCB / PPCB. Now it is hereby agreed by and between the parties here to as follows:-

- 1) E-waste means all electronic and electrical waste which includes computers, laptops, LCD, printers, CRT, PCB, mobiles, Air conditioner, microwave, batteries, CFL Tubes, cables, refrigerators and all other equipment which run by battery or electricity.
- 2) The duration of contract should be 1 year from the date of signing.
- 3) SANT BABA BHAG SINGH UNIVERSITY should give all the E-waste material to M/S JINDAL TRADING CO. for disposal.
- 4) Transportation cost to be met by M/S JINDAL TRADING CO.
- 5) The Certification will be provided by M/S JINDAL TRADING CO. after 3 months.
- 6) M/S JINDAL TRADING CO.'s representative will visit your premises quarterly for collection of materials.
- 7) Quotation of rate list once approved can only be changed mutually by both the parties.
- 8) E-WASTE MANIFEST (mandatory for filing return with PPCB) is only provided by 2nd party after pickup of E-WASTE material.

Any dispute arising within the contract period will be dealt with in the Ludhiana jurisdiction.

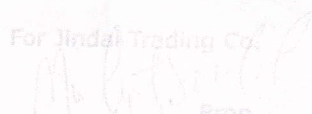
After signing the agreement M/S JINDAL TRADING CO. will be authorized to collect the E waste material from SANT BABA BHAG SINGH UNIVERSITY.

PARTY NO. 1



Secretary
SANT BABA BHAG SINGH
MEMORIAL CHARITABLE SOCIETY
Vill Khaila, Dist. Jalandhar, Punjab

PARTY NO. 2

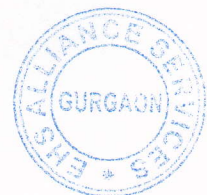


For Jindal Trading Co.
Prop.

Go Green By Recycling Waste to Minimum Landfill

www.uerindia.com

E-Waste Recycler MoU





Environment awareness campaign in village



Environment awareness campaign in village



Environment awareness campaign in village



Environment awareness campaign in village



Tree Plantation in Botanical garden by the members of Sant Baba Bhag Singh Memorial Charitable Society, Vice Chancellor, Prof. (Dr.) Dharmjit Singh Parmar and Registrar, Dr. Dhiraj Sharma

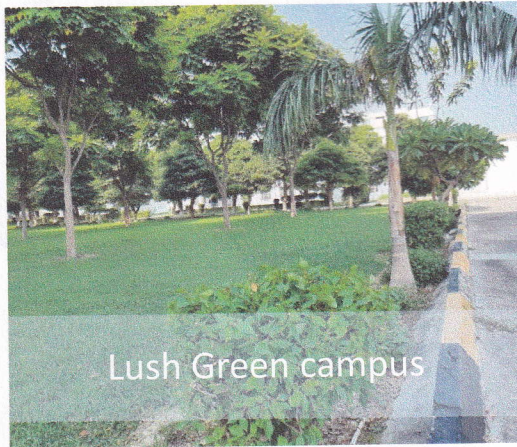


Swachta Abhiyan at campus



Swachta Abhiyan at campus





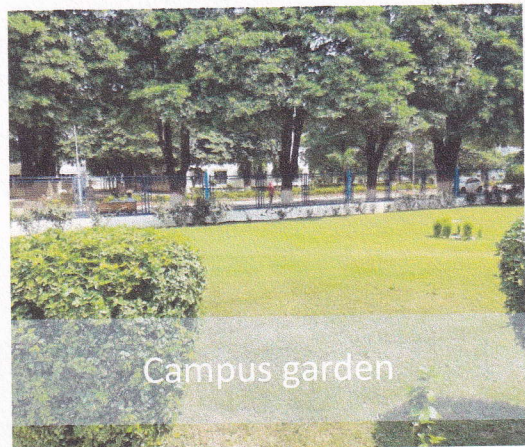
Lush Green campus



Grass cover outside the campus building



Well maintained campus



Campus garden