GURU NANAK KHALSA COLLEGE FOR WOMEN GUJARKHAN CAMPUS, MODEL TOWN, LUDHIANA



Supporting Document (2024-2025)

7.1.6 Quality audits on environment and energy are regularly undertaken by the institution

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GREEN

AUDIT

1. INTRODUCTION

The goal of the green audit is to examine how environmental activities both inside and outside of college campuses affect the environment. The systematic identification, measurement, recording, reporting, and analysis of elements of the university environment is known as a "green audit." It was started with the intention of examining the work being done by institutions whose operations could endanger the environment and the health of their residents. The green audit provides guidance on how to enhance the environment's structure, and a number of causes have influenced its expansion.

1.1. NEED FOR GREEN AUDITING

The process of discovering and assessing whether an institution's operations are sustainable and environmentally friendly is known as "green auditing." We have historically used natural resources wisely and effectively. However, everyone eventually develops a habit of using resources like water and energy excessively, particularly in public spaces. Green audits provide an effective method of using natural resources and govern all such processes. Verifying the processes and transforming them into clean, green ones is essential in the age of resource depletion and climate change. A method for it is provided by green audit. Additionally, it raises employees' general awareness of the environment.

1.2. GOALS OF GREEN AUDIT

College has conducted a green audit with specific goals as:

- 1. Identification and maintaining records of green practices followed by college.
- 2. Identify strengths and weaknesses of our college in this field.
- 3. To suggest and recommend solution for lacunas identified.
- 4. Increase environmental awareness throughout campus
- 5. Identify and assess environmental risk.
- **6**. Inspires employees for optimized sustainable use of available resources in college campus.
- 7. The long-term goal of the Green Audit is to spread awareness among college teachers and students.

1.3. OBJECTIVES OF GREEN AUDIT

1. To evaluate the present level of green campus maintenance.

2. To identify and assess significant environmental issues.

3. Establish the mission, vision, and aim for green practices on campus.

4. Assessment to enhance green belt campus performance.

1.4. BENEFITS OF GREEN AUDIT TO EDUCATIONAL INSTITUTIONS

• Promotes Sustainable Practices: By giving clear picture of present environmental

effect, the audit makes it easier to put sustainable initiatives into action.

• Fulfills Regulatory Needs: Colleges are required by numerous environmental

requirements to keep an eye on their effects. Ensuring compliance is aided by a green

audit.

• Reduces Costs: A Green Audit can help in saving money on energy, water, and trash

disposal by locating areas of resource waste.

• Promotes a Culture of Environmental Responsibility: The audit procedure makes

staff members more conscious and motivates them to adopt sustainable practices.

An analysis of the campus's use of green space is called a "green audit." Maintaining greenery

on campus requires a lot of work from the college's trained gardeners as well as the Greenery

Management Team. A green audit is a way to make sure that the college's Green Belt has been

maintained and handled as best it can.

MEMEBERS OF THE GREENERY COMMITTEE

Internal Green Audit was carried out by Greenery Management team under which tree count

of the college was conducted and the area under green belt was measured. Committee for

Green Audit includes:

Mrs. Gagneet Pal Kaur

Mrs. Sukhjit Kaur

Mrs. Inderjit Kaur

Ms. Shalini

GLIMPSES INTO THE TREE DIVERSITY OF THE COLLEGE CAMPUS

SR.NO	NAME OF THE PLANT	SCIENTIFIC NAME	LOCATION	USES
1	Bach	Acorus calamus	College Herbal Garden	Remedies for many conditions, including anxiety, depression, stress, emotional and physical trauma, cancer, and HIV.
2	Vasaka	Adhatoda vasaca	College Herbal Garden	The plant has manifold curative properties and is an ultimate remedial measure for a lot of health anomalies like breathing trouble, cough, and cold, nasal congestion, sore throat, asthma, bronchitis, other upper respiratory tract infections, bleeding disorders.
3	Aloe	Aloe vera	College Herbal Garden	Aloe vera creams, gels, and ointments contain the clear gel found in aloe veraleaves. These products can be applied topically to treat various skin conditions.
4	Kalmegh	Andrographis paniculata	College Herbal Garden	Used traditionally for the treatment of diseases such as cold, fever, diabetes, hypertension, ulcer, bronchitis, skin diseases, diarrhea, and malaria.
5	Satawar	Asparagus spp.	College Herbal Garden	It's also an adaptogenic herb. Adaptogenic herbs are said to help your body cope with physical and emotional stress.
6	Brahmi	Bacopa monnieri	College Herbal Garden	Brahmi is used for Alzheimer's disease, improving memory, anxiety, attention deficit-hyperactivity disorder (ADHD), allergic conditions, irritable bowel syndrome, and as a general tonic to fight stress.
7	Vajradanti	Barleria prionitis	College Herbal Garden	Vajradanti is why it is used for cough and allergic rhinitis. Often, the juice of the leaf is given along with honey to promote the expulsion of phlegm and provide a soothing effect.

8	Karaunda	Carissa carandas	College Herbal Garden	Immense health benefits, such as preventing heart disease, relieving digestive trouble and curing fevers.
9	Safed musli	Chlorophytum spp.	College Herbal Garden	It is used in traditional systems of medicine including Ayurveda, Unani, and homeopathy. People use safed musli for athletic performance, obesity, erectile dysfunction (ED), and other
10	Coleus	Coleus forskohlii	College Herbal Garden	Coleus was used for numerous purposes including treatment of rashes, asthma, bronchitis, insomnia, epilepsy, and angina. Coleus is thought to act much like theophylline and has been studied as an effective bronchodilator.
11	Gugal	Commiphora wightii	College Herbal Garden	Guggul gum resin is used for arthritis, lowering high cholesterol, "hardening of the arteries" (atherosclerosis), acne and other skin diseases, and weight loss.
12	Insulin plant	Costus igneus	College Herbal Garden	Consumption of the leaves are believed to lower blood glucose levels, and diabetics who consumed the leaves of this plant said to have a fall in their blood glucose levels
13	Haldi(Mixture)	Curcuma longa	Commerce Block	Curcumin is proven to have anti- inflammatory and immune-boosting properties.
14	Lemon grass	Cymbopogon flexuosus	College Herbal Garden	Lemongrass is used for treating digestive tract spasms, stomachache, high blood pressure, convulsions, pain, vomiting, cough, achy joints (rheumatism), fever, the common cold, and exhaustion.
15	Gudmar	Gymnema sylvestre	College Herbal Garden	The leaves of gudmar are imbued with gymnemic acids, a potent bioactive compound that acts to suppress the taste of sugar by interacting with taste receptors on the tongue, thereby valued as a sugar destroyer and used extensively in the treatment of diabetes.

16	Motia	Jasminum sambac	College Herbal Garden	It is also commonly known as jasmine sambac, Palmarosa oil, and Motia. Due to high medicinal property of Motia Attar, it is often used for the treatment of Asthma and similar sensitivities.
17	Jamalghota	Jatropha gossypifolia	College Herbal Garden	It has potent effects, which results in cramps during defecation and loose stools. Generally, Jamalgota is not indicated in most cases of constipation because of its dangerous effects.
18	Kitchen mint	Mentha viridis	College Herbal Garden	Use as a garnish for cool drinks and fruit desserts. Use dried peppermint leaves, added to boiling water to make a refreshing and digestive tea. Make a yoghurt dressing with chopped mint leaves, natural yoghurt, garlic and salt and pepper for salads especially cucumber salad.
19	Lajwanti	Mimosa pudica	College Herbal Garden	The roots of lajwanti are used to treat leucoderma, angiopathy, metropathy, ulcers, dysentery, swellings, jaundice, bronchial asthma, small pox, strangury, and fevers. Its leaves are useful in hydrocele, hemorrhoids, fistulous withers, scrofula, pinkeye, cuts and bleeds.
20	Curry patta	Murraya koenigii	College Herbal Garden	Curry leaves are widely used in the Indian kitchens in curries, rice, snacks, et al. They are known for their aromatic and distinctive flavour; however, they have more than just appetite-tickling flavour. These leaves are said to have various health and beauty benefits to offer. Curry leaves are herbs that are known to have essential nutrients that help in conditions like weight loss, blood pressure, indigestion, anaemia, diabetes, acree, hair loss.

26	Akarkara	Spilanthes acmella	College Herbal Garden	Akarkara is widely used to treat indigestion as it effectively enhances the secretion of saliva and digestive enzymes, which aids in better digestion. Indigestion occurs when the kapha levels in a body are elevated and cause a state of agni mandya or a weak digestive fire.
27	Bahera	Terminalia bellirica	College Herbal Garden	Terminalia bellerica is used to protect the liver and to treat respiratory conditions, including respiratory tract infections, cough, and sore throat. Terminalia chebula is used for dysentery. Terminalia bellerica and Terminalia chebula are used as a lotion for sore eyes.
28	Giloe	Tinospora cordifolia	Main College Lawn	All parts of this plant are thought to have health benefits. People have long used it to treat a wide range of issues, including fever, infections, diarrhea, and diabetes.
29	Ajowain	Trachyspermum ammi	College Herbal Garden	"Carom seeds help in maintaining your digestive health. They treat any kind of abdominal discomfort due to indigestion like stomach pain or burning sensation. It increases the appetite for those suffering from loss of appetite."
30	Anantmool	Tylophora indica	College Herbal Garden	According to this shalok anantmool is sweet, unctuous, and heavy and used to improve quality of sperm. It is used to treat various disorders like indigestion, asthma, cough, fever, dysentery, poisoning and menorrhagia.
31	Sadabahar	Vinca rosea	College Herbal Garden	The bulk of active constituents in this flower offers an ultimate remedy for treating respiratory disorders like asthma, bronchitis, COPD, cough and cold symptoms.
32	Nirgundi	Vitex negundo	College Herbal Garden	Nirgundi, also called a five-leaved chaste tree, is a potent ayurvedic plant, that possesses noteworthy therapeutic properties and heals several ailments including asthma, muscle spasms and anxiety.

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33	Ashwagandha	Withania somnifera	College Herbal Garden	Ashwagandha contains chemicals that might help calm the brain, reduce swelling, lower blood pressure, and alter the immune system.
34	Kinnow	Citrous Nobilis	College Ground	Aids Digestion. One of the best qualities of kinnows is that it absorbs into stomach and helps in digestion without putting any pressure on the digestive tract
35	Orange	Sinensis	College Ground	They are a good source of vitamin C , as well as several other vitamins, minerals, and antioxidants. For this reason, they may lower your risk of heart disease and kidney stones.
36	Amla	Phyllanthus Emblica	College Ground	Regular intake of amla not only leads to a healthy and glowing skin but also improves eye sight, boosts the immune system, and regulates blood sugar and lipids. Eat as murabba, pickles or candies; but consume it daily.
37	Guava	Psidium Guajava	College Ground	Various parts of the plant, including the leaf and the fruit, are used as medicine. People use guava leaf for stomach and intestinal conditions, pain, diabetes, and wound healing. The fruit is used for high blood pressure.
38	Anjeer Fig	Ficus Carcia	College Ground	Anjeer is a powerhouse of minerals like zinc, manganese, magnesium, iron and thus promotes reproductive health. The high concentration of antioxidants and fibre in this dry fruit protects against hormonal imbalances and postmenopausal issues.
39	Papaya	Carica Papaya	College Ground	The leaves are used to make medicine. Papaya is used for preventing and treating gastrointestinal tract disorders, intestinal parasite infections, and as a sedative and diuretic. It is also used for nerve pains (neuralgia) and elephantoid growths.

40	Jamun	Syzygium Cumini	College Ground	This fruit packs a punch as it has a high antioxidant content, contains diuretic, and has antibacterial and antiscorbutic properties.
41	Neem	Azadirachta Indica	Basket Ball Ground	Neem leaf is used for leprosy, eye disorders, bloody nose, intestinal worms, stomach upset, loss of appetite, skin ulcers, diseases of the heart and blood vessels (cardiovascular disease), fever, diabetes, gum disease (gingivitis), and liver problems. The leaf is also used for birth control and to cause abortions.
42	Tali	Erythrophleum Suaveolens	Basket Ball Ground	Taken as a snuff to relieve headache, as a remedy for other pains and fever, and to cure lung sickness in cattle. The bark has been used as ordeal poison in the same way as Erythrophleum suaveolens, and is also used as a fish and rat poison.
43	Satpatia	Alstonia Scholaris	Basket Ball Ground	The bark is known as ditabark, used by Indians as traditional medicine to treat diarrhoea, dysentery, asthma, and a few types of fevers. It has also been used as an aphrodisiac. When damaged, the bark lets out a sticky milky latex, which is also valued for its medicinal properties.
44	Imli	Tamarindus Indica	Basket Ball Ground	It is also used for constipation, fever, gallbladder disorders, disorders affecting bile flow in the liver, and many other conditions, but there is no good scientific evidence to support these other uses.
45	Deg	Diethylene Glycol	Basket Ball Ground	Commonly used in the commercial preparation of antifreeze, brake fluid, cigarettes, and some dyes. It is an excellent solvent for many relatively insoluble substances.
46	Fox Tail Palm	Wodyetia Bifurcata	Basket Ball Ground	It really does depend on what kind of palm it comes from. The Foxtail palm's fruit is toxic to us and the every part of the sago palm is poisonous to us and animals.

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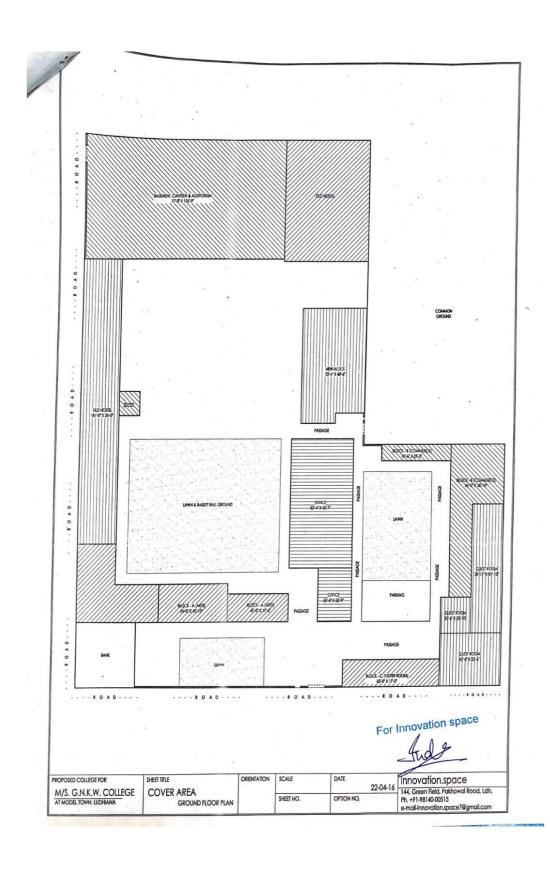
47	Ashoka	Saraca Asoca	Basket Ball Ground	The seed, bark and flowers of Ashoka are mainly used for in menorrhagia, astringent, Diabetes, biliousness, dyspepsia, ulcers and can also be used as uterine stimulant, estrogenic effects, abortifacient.
48	Mulberry	Morus Alba	Basket Ball Ground	Some people place sheets or other materials around mulberry trees to catch the berries as they drop. This makes them quick to collect. While they're often eaten raw, mulberries can also be used to make jams, preserves, pies, and a variety of other delicious treats.
49	Pilken	Ficus Spp.	College Ground	One of the most common uses for bee pollen is the management of seasonal allergies , such as hay fever. It's thought that ingesting pollens will help the body to build resistance to these potential allergens and, in turn, reduce allergy symptoms.
50	China Palm	Livistona Chinensis	Commerce Block	The Chinese fan palm is primarily cultivated for its ornamental value, given its beauty and cold-hardiness.
51	Money Plant	Epipremnum Aureum	Commerce Block	Growing a money plant in the house brings positive energy . Along with this, happiness and prosperity come in the house and the inflow of money increases.
52	Champa	Magnolia Figo	Near Main Gate	Champaka tree rich in medicinal properties is used in several ayurvedic preparations. The leaves, root, root bark, flowers, fruit and oil are used for its medicinal value. The extract of the flowers, leaves and seeds have anti cancer, antimicrobial, antioxidant properties.

Dr. Maneeta Kahlon Principal

Dr. Parveen Arora Nodal Officer (SAP)

Gragned Pol Kor Mrs. Gagneet Pal Kaur (Co-ordinator) SAP - Greenery Management

TOTAL AREA OF GNW CAMPUS



TOTAL GREEN COVERAGE AREA OF THE COLLEGE CAMPUS

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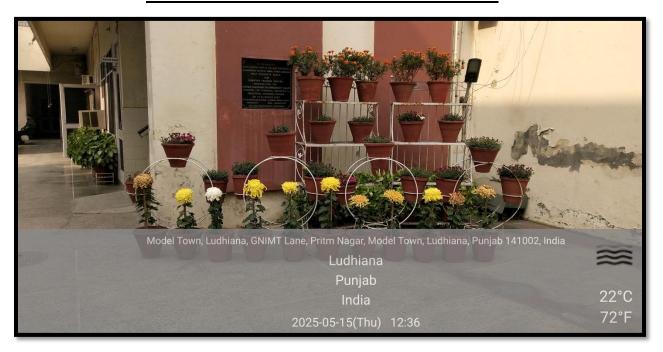
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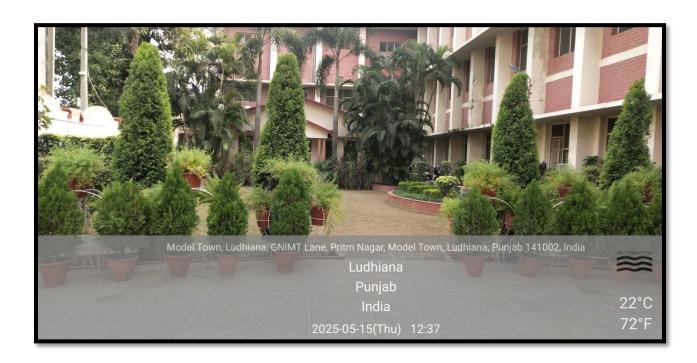
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GREEN CAMPUS VIEW OF THE COLLEGE







RECOMMENDATIONS

Following are some of the important suggestions for improving campus environment:

- 1. All of the college's present practices and suggestions must be included in an environmental policy statement.
- 2. Regular visits should be undertaken to guarantee that the trash produced is measured, tracked, and documented on a regular basis, and the administration should have access to the data. Plant seasonal flowers and fruits as needed.
- 3. To prevent water waste and leaks, a drip system should be constructed.
- 4. Student-focused activities should be carried out to foster a green environment.

Even though it was felt that an external Green Audit was necessary, an external agency will complete this thorough report during the upcoming session, and it will act as a guide for the following three years.