



# **SRI GURU GOBIND SINGH COLLEGE**

**(Co-educational, Affiliated to Panjab University, Chandigarh)**

**Sector-26, Chandigarh-160019. (0172) 2792754, Telefax: (0172)2790312**

## **BEST PRACTICE**

### **ENVIRONMENTAL SUSTAINABILITY**

#### **(AQAR 2022-23)**

This document contains information regarding the following Green initiatives:

- Objectives of the Practice
- Context of the Practice
- The Practice
  - A. Environment and Sustainability Policy
  - B. Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees
  - C. Committees for Green Initiatives
  - D. Green Cover and Floral Diversity
  - E. Faunal Diversity
  - F. Waste Management
  - G. Water and Energy Conservation
  - H. Research and Development
  - I. Green, Environment and Energy Audits
  - J. Awards and Accolades
- Evidence of Success



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## **TITLE OF THE PRACTICE: ENVIRONMENTAL SUSTAINABILITY**

### **□ OBJECTIVES OF THE PRACTICE**

The College has taken the initiative to sensitise all the stakeholders about the importance of environment conservation and its role in Sustainable National Development. Keeping in mind the National Educational Policy 2020, National Biodiversity Targets 2020, G20 Sustainability goals and Sustainable Development Goals announced by the United Nations, the College adopted the Best Practice of Environmental Sustainability. This best practice incorporates tradition and modernity for improving the quality of life, protection of the ecosystem and preservation of natural resources along with representing cultural diversity.

### **□ THE CONTEXT**

Focusing on Environmental Sustainability is significant to protect the environment from degradation by human activities and alarming climatic changes due to global warming. The College, as a socially conscious entity with a vision for the future, has come forward to take measures to preserve the environment by motivating and involving the younger generation and academia in practices beneficial to the environment. Drawing inspiration from the teachings of the *Gurbani*, the College aims at improving the ecosystem by planting native species of trees and creating their seed bank as a viable solution. Outreach environmental activities are conducted to sensitise wide group of stakeholders beyond campus. The faculty and students are facilitated to conduct studies, research and development pertaining to environmental issues. Tremendous efforts have been made to create social consciousness about environmental sustainability by involving youth and academia through collaboration with government and non-government organisations.

### **□ THE PRACTICE**



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The College follows its Environment and Sustainability Policy while undertaking green initiatives in the campus.

## A. Environment and Sustainability Policy

Policy Document: <https://sggscollege.ac.in/Downloads/POLICIES%2030%20MARCH.pdf#page=15>

## B. Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees

*An Initiative amalgamating the aspects of Environmental Sustainability and Heritage and Cultural Preservation*

The College initiated a novel idea of creating a mini urban forest with an objective to promote a sustainable environment. The mini forest amalgamates the aspects of ecosystem diversity, curative diversity (a wide variety of medicinal plants) and cultural diversity (including spiritual values) successfully. This habitation has flourished into a natural air-purifying dense forest with 600 trees comprising 49 different native species of the region planted in an area of 180 square meters. This novel initiative amalgamates the tradition by selecting species native to the region and modern Miyawaki technique thereby promoting natural restoration of land. A multi-layered natural forest is created by grouping the plants into different layers- shrub, sub tree, tree and canopy – in each 50 m. Outdoor display and Air Quality Display LED panels have also been installed. The forest grown by this methodology grows 10 times faster, 30 times denser and helps to produce more oxygen than that produced by regular plantations. It is developing into a hub of natural biodiversity and is a step towards reducing the carbon footprint of the region. This is a significant contribution towards the National Biodiversity Target 2020 of the Government of India which stresses on the need to spread awareness involving young minds and intelligentsia to play a positive role for restoration, conservation and sustainable use of the vulnerable ecosystem.

- List of 49 Native Species Planted in the Mini Forest

S.No.	Local Name	Scientific Name	Category
1	Semal	<i>Bombax ceiba</i>	Top Canopy
2	Bahera	<i>Terminalia bellirica</i>	Top Canopy



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3	Arjun	<i>Terminalia arjuna</i>	Top Canopy
4	Phulai	<i>Acacia modesta</i>	Tree
5	Shisham	<i>Dalbergia sissoo</i>	Tree
6	Jhingan	<i>Lannea coromandelica</i>	Tree
7	Palash	<i>Butea monosperma</i>	Tree
8	Babool/ Kikar	<i>Vachellia nilotica</i>	Tree
9	Sohanjana	<i>Moringa concanensis/ Moringa oleifera</i>	Tree
10	Jand	<i>Prosopis cineraria</i>	Tree
11	Roheda	<i>Tecomella undulata</i>	Tree
12	Jamun	<i>Syzygium cumini</i>	Tree
13	Gular	<i>Ficus racemosa</i>	Tree
14	Papri (Indian Elm Tree)	<i>Holoptelea integrifolia</i>	Tree
15	Desi mango	<i>Magnifera indica</i>	Tree
16	Harar	<i>Terminalia chebula</i>	Tree
17	Mahua	<i>Madhuca longifolia</i>	Tree
18	Pilkhan (White Fig)	<i>Ficus virens</i>	Tree
19	Neem	<i>Azadirachta indica</i>	Tree
20	Peepal	<i>Ficus religiosa</i>	Tree
21	Bargad/Bohar (Indian Banyan)	<i>Ficus benghalensis</i>	Tree
22	Lasura	<i>Cordia myxa</i>	Tree
23	Amaltas	<i>Cassia fistula</i>	Tree
24	Khair/ Katha	<i>Acacia catechu/ Senegalia catechu</i>	Tree
25	Lasora / Goonda	<i>Cordia dichotoma/Cordia myxa</i>	Tree
26	Chamror	<i>Ehretia laevis</i>	Tree
27	Kharajal/Pilu/Meswak	<i>Salvadora oleoides</i>	Initial years Shrub & after Tree
28	Meethajal	<i>Salvadorapersica</i>	Initial years Shrub & after Tree



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29	Dhonk/Dhauk/Dhok	<i>Anogeissus pendula</i>	Tree
30	Gum Arabic	<i>Acacia Senegal/Senegaliasenegal</i>	Tree
31	Karanj	<i>Millettia pinnata</i>	Tree
32	Harshingar	<i>Nycanthes arbor-tristis</i>	Shrub
33	Karir	<i>Capperis decidua/ Capparid decidua</i>	Shrub
34	Vasaka	<i>Justicia adhatoda</i>	Shrub
35	Karonda	<i>Carissa carandas</i>	Shrub
36	Guggul	<i>Commiphora wightii</i>	Shrub
37	Nirgundi	<i>Vitex negundo</i>	Shrub
38	Sandalwood	<i>Santalum alb um</i>	Tree
39	Clove	<i>Syzygium aromaticum</i>	Tree
40	Cardamom	<i>Elettaria cardamomum</i>	Tree
41	Curry leaves	<i>Murraya koenigii</i>	Tree
42	Sadabahar	<i>Catharanthus roseus</i>	Shrub
43	Imli	<i>Tamarindus Indica</i>	Tree
44	Sukhchain	<i>Pongamia glabra</i>	Tree
45	Bael	<i>Aegle marmelos</i>	Tree
46	Shahtoot	<i>Morus alba</i>	Tree
47	Kachnar	<i>Bauhinia Variegata</i>	Tree



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48	Shisham	<i>Indian rosewood</i>	Tree
49	Kadamb	<i>Neolamarckia cadamba</i>	Tree

- **Virtual Tour of Guru Nanak Sacred Forest**

<https://youtu.be/KrqbR-8FtEs>

- **Relevance to National Mission/Priorities**

The creation of Guru Nanak Sacred Forest on the campus will contribute towards the National Mission and Environment Priorities of the Government in a big way by involving the youth and academia as evident from the various policies enlisted below:

1. The Government of India has time and again garnered people's attention and support towards the cause of the environment. Prime Minister Narendra Modi has launched numerous initiatives to safeguard the environment and steer India towards being a leader in restoration of Green Global Environment.
2. The United Nations Environment Programme (UNEP) named the Indian Prime Minister Narendra Modi and French President Emmanuel Macron as joint 'Champions of the Earth' in the policy leadership category.
3. A Green Skill Development Programme was launched in June 2017 by the Ministry of Environment, Forest, and Climate Change to focus on developing skills among youth in the environment and forest sector.
4. National Biodiversity Target 2020: The target of the Government under NBT (National Biodiversity) by 2020 is that the youth, right from their formative years, should be



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acquainted with the value of biodiversity and take positive steps to conserve and use it sustainably.

5. The Ministry of Environment, Forest and Climate Change will receive World Bank's Global Environment Facility Grant for India's Ecosystem Services Improvement Project (ESIP). As part of this, models will be developed and tested for improving forest quality through effective management of invasive alien species.
6. The Green India Mission (GIM) aims to improve forest quality over five million hectares and develop new forests over another five million hectares. The ESIP project in alignment with GIM will develop and implement innovative approaches and field-based activities for invasive species removal, replanting with native species and biological control. It will result in an enhanced national knowledge base to support the policy on containing the geographic spread of such invasive species.

## C. Environment Committees in the College

The College has formed four committees, *Dharat Suhavi* Environment Society, Solid Waste Management Committee, Guru Nanak Sacred Forest and Balihari Kudrat Committee and Campus Beautification Committee which work towards raising environmental consciousness to achieve sustainability towards biodiversity and maintain a greener campus

### *Dharat Suhavi* Environment Society



The term *Dharat Suhavi* has been derived from *Gurbani*, which literally means 'Blessed Land'. The primary focus of the society is to work constantly towards creating awareness and sensitising the staff, students and community at large regarding sustainable environmental issues. The Society organises Environment Awareness Drives, holds Environment Education classes for the first year UG students, participates in projects of National Environment



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Awareness Campaigns and organises educational trips for students. The Environment Society takes part commemorating significant environment related days.

**Guru Nanak Sacred Forest and Balihari Kudrat Committee** diligently maintains the serene Guru Nanak Sacred Forest: A Mini Urban Forest with Native Species and the therapeutic Balihari Kudrat Herbal Garden. Their dedicated efforts ensure the preservation and flourishing of these natural sanctuaries, fostering environmental harmony and spiritual connection.

**Solid Waste Management Committee** functions towards proper waste disposal, segregation and management of waste generated in the college. The committee organises awareness and cleanliness drives, workshops and expert lectures, and installation of various waste disposal methods on Campus.

**Campus Beautification Committee** functions towards raising and maintaining plant diversity in the campus green areas largely in the Botanical Garden with special emphasis on giving practical demonstrations to science students. The Botanical Garden also includes a special spot for raising native herbal and medicinal plants which are environmentally beneficial as well as economical to maintain. This garden is used as a central nursery for raising horticultural plants which are used to beautify the campus. Under the *Saugaat*– Gift-a-Sapling Scheme, saplings raised in the central nursery are gifted to various dignitaries and guests who visit the college on different occasions to raise environmental awareness.

## D. Green Cover and Floral Diversity

Sri Guru Gobind Singh College has 10,281 sq ft of green cover with over 1200 varieties of plants, 1000 trees (approximately) and nearly 1000 other potted plants providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil and supporting biodiversity. The pedestrian path in the campus is lined with mango trees, which provide a green canopy cover over the path. Fruit trees are planted all across the College campus to attract birds and frugivorous mammals. The green cover other than the mini forest includes Botanical Garden, Herbal Garden, *Barah Maha* Garden of Biodiversity, *Bebe Nanaki* Garden of Serenity, garden adjacent to the Cafeteria, Sports Grounds and Hostel Garden.





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## Faunal Diversity

The mini forest has improved the biodiversity index of the area by attracting many species of birds and insects, which are disappearing from the environment. The vast green cover and floral diversity of the College attracts huge faunal diversity comprising birds, insects, bees, wasps and squirrels etc. The students learn to appreciate their natural habitats and get acquainted with their interactions within their ecosystems. The Lotus and Lily pond has *Gambusia*, a larvicidal fish, to control the breeding of mosquitoes. The College has also adopted a few dogs and cats to create an environment of dignity and respect between humans and animals. The vast green cover of the College also provides a resting place and food source to help migratory birds coming to Chandigarh reach their destination.

## E. Waste Management

The College, in a constant bid to create a zero-waste campus, ensures that the campus waste is segregated at source and recycled or sold off to authorised vendors. The College continually tries to ensure the implementation of the 5R's: Refuse, Reduce, Reuse, Repurpose and Recycle.

- Colour-coded dustbins are placed all across the campus for segregation of wet and dry waste. Leaf litter is accumulated in the simple, bacterial and vermicomposting pits for biodegradation. The College has restricted single-use plastic and plastic bags on campus
- The introduction of separate bins for plastic bottles at SGGS College signifies a proactive step toward efficient waste management. By providing designated bins for plastic bottles, the college promotes segregation of waste, making it easier to recycle and reduce the environmental impact of plastic pollution.
- The College is connected with the Municipal Corporation drainage system for management of liquid waste. The wastewater generated from air conditioners is reused for watering the gardens
- The biomedical waste generated from the bacterial culture lab is autoclaved before being disposed of to avoid any contamination
- Incinerator has been installed in Girls Common Room to dispose of sanitary waste.



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- The College has a designated e-waste collection store and an e-waste collection box for periodic disposal of electronic waste from the authorised vendor. Printer cartridges are refilled and reused.
- Bio-reactor for horticulture waste has been installed in the Botanical Garden to manage horticulture waste.
- A Milk Bag Recycling Bin has been installed in the area behind the canteen.

## F. Water and Energy Conservation

The College realises the importance of sustainable ecosystem as prescribed in numerous Government campaigns and commemorates important days pertaining to water and energy conservation such as *Jal Shakti Abhiyan*, *Akshay Urja Diwas* etc. The students as well as staff are also sensitised regularly for undertaking such practices through several awareness drives in and beyond campus as outreach programmes in adopted villages and other public places.

## G. Research and Development

Research and development is an important domain where the faculty and students of the College work diligently on the theme of environmental sustainability. Students from faculties of Science, Social Sciences and Languages undertake interdisciplinary research initiatives based on the native species grown in the mini forest. The faculty has presented and published several research papers along with noteworthy research projects.

The College has been awarded an R & D Project by the Department of Environment, UT Administration, Chandigarh on 'Exploring the Potential of Carbon Neutrality in Chandigarh' aiming to make Chandigarh carbon free by 2030.

## H. Activities Conducted on Theme of Environmental Sustainability

Various activities are conducted throughout the session to promote environmental sustainability. The College took the opportunity and engaged a wider range of beneficiaries across the North Indian region by conducting various activities in blended mode, organised by



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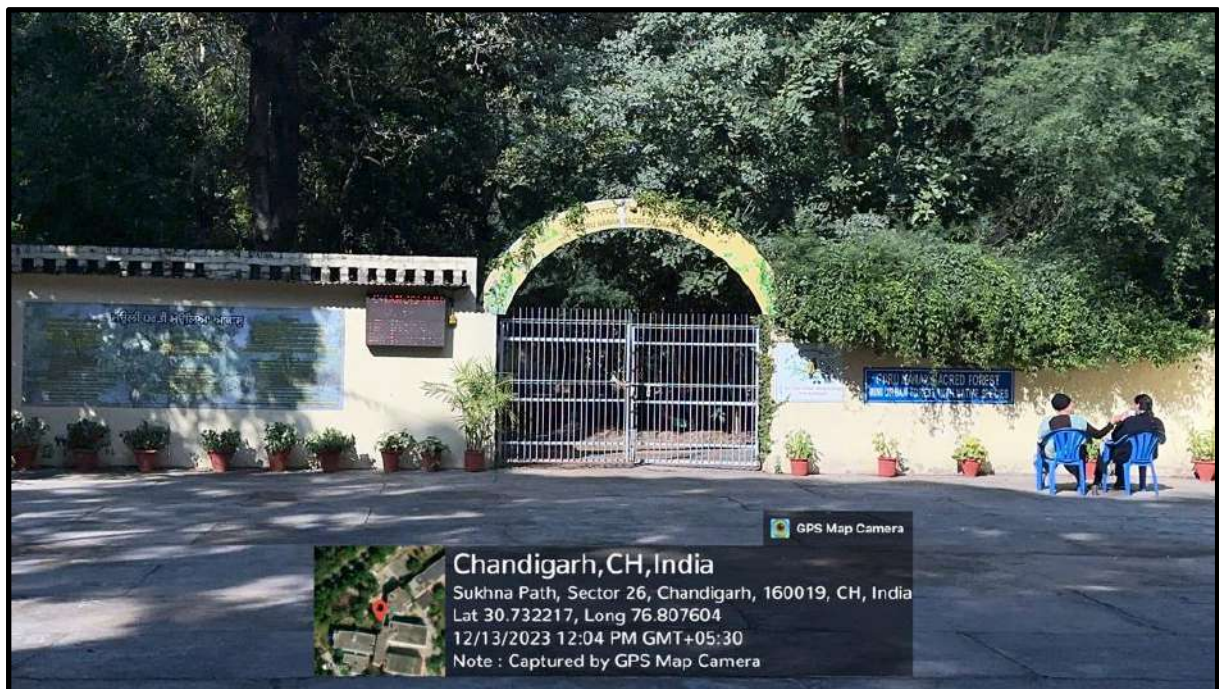
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Guru Nanak Sacred Forest Committee, *Dharat Suhavi* Environment Society, Campus Beautification Committee, NSS unit and various Departments of the College.

## □ EVIDENCE OF SUCCESS

### A. Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees

The creation of the mini urban forest in the College has been of great significance towards documentation and preservation of genetic heritage. It involved a study and documentation of traditional ways of collecting and storing seeds of native species and helped to understand how tiny forest spaces can act as safe refuges for insects, birds and other fauna that are gradually disappearing from the ecosystem. It has successfully contributed towards promoting environment related policies of the government by mobilising people for this noble cause.



Entrance of Guru Nanak Sacred Forest



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Dense Green Cover in Mini Urban Forest

Air Quality Index LED Display



Board inside Guru Nanak Sacred Forest displaying common names, botanical names and pictures of species of native trees planted in the mini forest



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Aesthetic Pathway developed around flourishing Mini Forest

A Heritage Wall was created in the Guru Nanak Sacred Forest with quotes on ecology taken from the Gurbani.





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- **Plantation of Native Trees**

New native species *Neolamarckiacadamba*- Kadamb, *Shahtoot*, *Kachnar* and *Kanak Champa* was introduced in the Forest. The extracts formulated from the tree's bark, leaves, and other parts is said to cure many diseases such as diabetes, cardiovascular disorders, cancer and liver damage.

- **Visit by Important Dignitaries to the Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees**

1. Prof Jaspal Singh Sandhu, Vice Chancellor, GNDU, Amritsar visited the Forest on the occasion of World Forest Day, March 21, 2023 and planted *kachnar*.





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2. Mr Vivek, Chairperson, CII visited the Forest and planted *Shehtoot* and *kanak champa*.



3. Tree plantation of Kadamb to commemorate World Sikh Environment Day





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## Collaboration with Government Agencies

The College collaborated with the following Government offices for assistance in further development and expansion of the mini forest at various stages:

Punjab Biodiversity Board (PBB); ENVIS Centre; Department of Environment; Punjab State Council for Science & Technology; CREST Chandigarh Renewal Energy Science & Technology Promotion Society; Forest & Wildlife Preservation Department; Department of Soil & Water Conservation; Department of Agriculture and Farmer Welfare, Dera Bassi, SAS Nagar; Punjab Mandi Board; Central Ground Water Board, Chandigarh; Punjab State Rural Development Board.

## B. Green Cover and Floral Diversity

The extensive green cover of the College has contributed towards improving air quality, climate amelioration, conserving water, preserving soil and sustainable biodiversity. Different areas are covered with various types of plants, trees, shrubs, climbers etc. The pedestrian path in the campus is lined with mango trees, which provide a green canopy cover over the path. Fruit trees are planted all across the College campus to attract birds and other frugivorous insects etc.

- The College has following Green Areas in addition to the mini urban forest:
  - i. Botanical Garden
  - ii. Herbal Garden
  - iii. *Barah Maha* Garden of Biodiversity
  - iv. *Bebe Nanaki* Garden of Serenity
  - v. Garden Adjacent to Cafeteria
  - vi. Sports Grounds
  - vii. Hostel Garden
  - viii. Pedestrian Friendly Pathways with Green Cover





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## i. Botanical Garden

The Campus Beautification Committee maintains the Botanical Garden and 5 lawns which add to the greenery and rich biodiversity in the campus. A plethora of seasonal and perennial flowering plants adorn the College. In addition to the annuals in the garden beds, approximately 500 seasonal flower pots were cultivated and nurtured in the central nursery inside the botanical garden. The garden presents a unique blend of beauty and culture, where each tree holds a different meaning to individual viewers. A sprinkle irrigation system has also been installed to provide ideal growth to plants and reduce the consumption of water.



Xerophyte and Succulent Section: A Special central area of the Botanical Garden with direct sunlight has been dedicated for cultivation of Xerophyte and Succulents. Various species of *Opuntioy Ferocactus* and other succulents like *Agaves* are growing here. A special attraction of this area is the vine-like cactus plant of dragon fruit *Hylocereus undatu*





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**Palmatum:** A special area has been allocated for growing palms and cycads. Currently 7 species of palms and 2 species of cycads are growing in the palmatum.

**Nursery and Seed Bank:** This garden is used as a nursery for raising a plethora of horticultural plants. The saplings are later planted in various parts of the college. Some of these plants are gifted under the “Gift-a-Sapling” scheme to various dignitaries who visit the college on different occasions.



**Composting Section:** Vermicomposting and Bacterial composting Section has been created to supply nutrients and growth enhancing hormones plants. The compost is also useful to improve the soil structure leading to increased water and nutrient holding capacity.





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A Solar Green House and Fern House is constructed in the College with the dimension of 10x6 m<sup>2</sup> with the GI pipe and green shade net. It is used to shield green plants from extreme environmental conditions and prepare seedlings. Micro-sprinklers are used to cultivate ferns, supply nutrients and enhance their growth.



## ii. Herbal Garden

Herbal Garden has been set up in the Botanical Garden of the College established in 2016 under the aegis of Department of Environment, Chandigarh. The traditional and aromatic herbs like Tulsi, Mint, Coriander, Thyme, Rosemary, Oregano, Chives and Garlic, to name a few are flourishing. All these plants are important therapeutically, environmentally and educationally. Herbal Garden has a collection of approximately 100 species of medicinal plants like Mint, Coriander, Peppermint, Tulsi, Basil, Thyme, Oregano, Fenugreek, Cardamom, Clove, Bayleaf, Kewda, Brahmi, Ashwagandha, Vacha, Lemon, Lemongrass, Calotropis, Fennel, Chives, Turmeric, Ginger etc. which aid in teaching of Ethnobotany and in research by students of Botany, Biotechnology and Chemistry. *Morus alba* (Shahtoot) was added to the Garden on March 21, 2023 to commemorate World Forest Day, 2023. For the above said purpose, these plants are cultured and maintained annually at their designated areas. The produce of plants like Cherry tomatoes, Lemons, Papaya, Plum, Guava, Grapes, Peaches, Mango etc. on-campus are collected and distributed amongst students and the under-privileged. They also attract a rich diversity of fauna in the campus. Name plates with Botanical name, common name and uses are displayed thus raising awareness and consciousness about nature among students.



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Flowering plants: Dahlia, Chrysanthemum, Zinnia, Poppy, Dianthus, Petunia, Phlox, Marigold etc. are among the numerous flowering plants that have fetched many laurels to the College in various flower shows.



Saplings of Seasonal Plants

Seasonal Flowers on Campus

Fruit Plants: The College has a wide variety of indigenous and exotic fruit trees such as mango, jackfruit, amla, pear, plum, peach, jamun, lemon, mausami, grapevine, dragon fruit. To commemorate International Day of Forests, as many as 20 different species of fruit trees were planted.



Grapes



Guava



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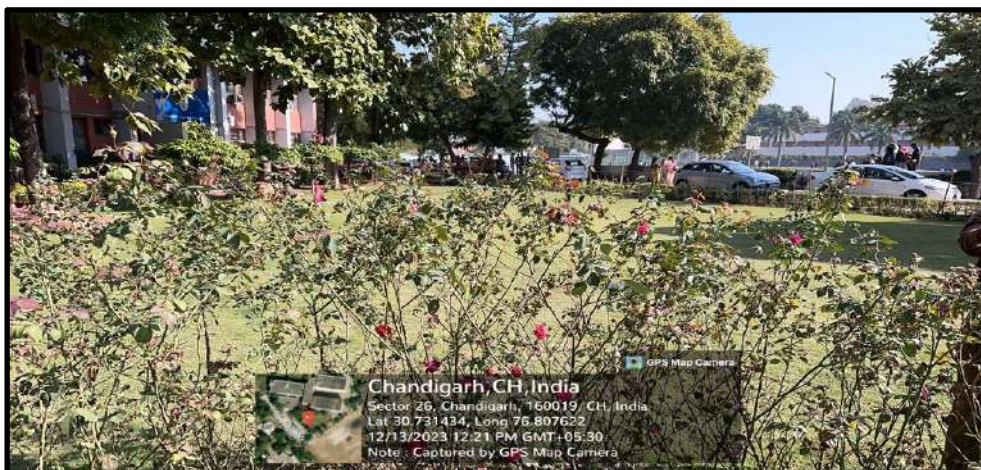
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### iii. *Barah Maha* Garden of Biodiversity

The concept of *Barah Maha* Garden of Biodiversity involves study and plantation of flowering plants which will attract birds, butterflies and honey bees, enriching the faunal diversity and making the garden pollinator-friendly. The Garden of Biodiversity is aptly named from our rich heritage. *Barah Maha*, meaning ‘Twelve Months’, describes the months of the Indian Lunar Calendar and it is in the form of Calendar poetry, a collection of hymn-verses composed by Guru Nanak Dev ji.





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## iv. *Bebe Nanaki* Garden of Serenity

The Garden of Serenity adds to the environment sustainability and aesthetics of the campus. This garden is a reflection of the spiritual radiance of Bebe Nanaki, the elder sister of Guru Nanak Dev Ji, after whom it is named.



## v. Garden Adjacent to Cafeteria



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## vi. Sports Grounds



## vii. Hostel Garden Aerial View





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## viii. Pedestrian Friendly Pathways with Green Cover



## C. Faunal Diversity

In addition to the floral diversity, the College also houses a rich faunal diversity.

BAAZ: Bird Watcher's Society is a novel initiative to study, observe and archive information on varieties of birds, especially those particular to the campus and region. The Society seeks to encourage the conservation of birds in their natural environment. This will cultivate the instinct of wildlife conservation and environmental leadership in the youth. The students are actively participating in collecting and cataloging the E-Bird Data.



PAWS Humane Society for Animal Assisted Therapy is a unique, first of its kind initiative which aims to sensitise students about animal welfare, facilitate an environment of dignity and respect between humans and animals and to promote compassion and empathy for all living beings.





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- **Bird Diversity**

The E-bird data collected from the campus is evidence of increasing bird diversity on the campus it includes Mynah, Sparrow, Parrot, Pigeon, Shrike, Dove, White-checked Bulbul, Himalayan Bulbul, Budgerigar, Red Turtle Dove, Warbler, Spotted Munia, Ashi Prinia, Hoopoe, Barbet, Indian Robin, Baaz, kingfisher, Koel and many other birds even Chandigarh State bird Indian Grey Hornbill has also been spotted in mini forest. Bird feeders are placed in different parts of the College in order to provide a secure source of food and water during summer season.

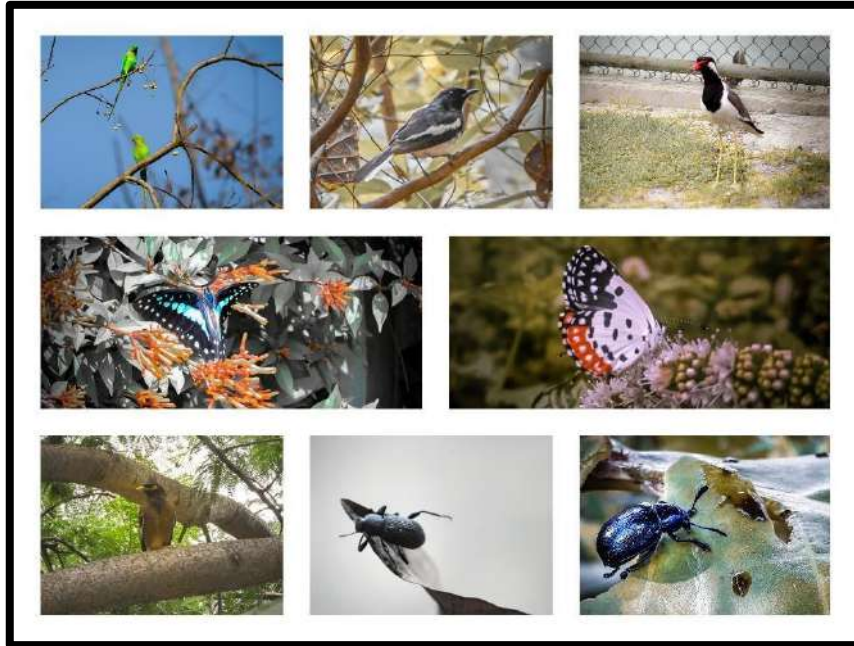
- Gambusia fish are there in the lotus and lily ponds to control the breeding of mosquitoes. Other than that, the pond also has dragonflies, frogs, snails. In summer, the pond provides water for pollinators like bees and wasps. The College has a steady population of squirrels. Insects belonging to 7 common orders (Odonata, Diptera, Hymenoptera, Hemiptera, Isoptera, Coleoptera and Lepidoptera) are found in the campus. Many nests of *Polistes*(wasps) are seen in the campus.



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## D. Waste Management

The College provides a safe and healthy environment for students and staff by adhering to the guidelines of Solid Waste Management 2016 issued by Government of India, Ministry of Environment, Forest and Climate Change, New Delhi in a phased manner. The College, in a constant bid to create a zero-waste campus, ensures that the campus waste is segregated at source and recycled or sold off to authorised vendors. The College constituted the Swachhata



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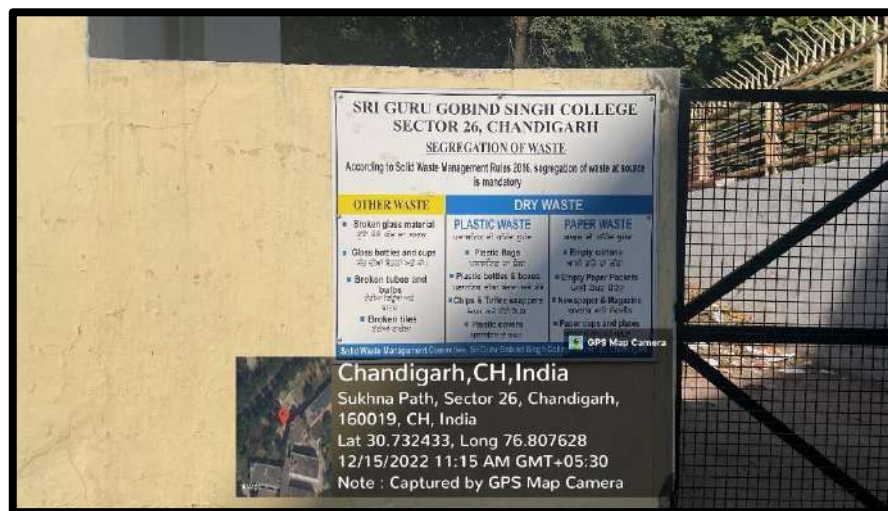
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Committee in 2018, which consisted of teaching, non-teaching, cleaning staff and the Student Council with the aim to follow the 5R's: Refuse, Reduce, Reuse, Repurpose and Recycle.

## ● Solid Waste Management

- i. Solid waste is segregated into wet (biodegradable) and dry (non-biodegradable) waste. For smooth and efficient waste management, marked and colour-coded dustbins are placed across the campus. These are sent for disposal and recycled as per standard procedures by the authorised vendors.



- ii. Wet waste generated in the College Mess and Canteen is collected by local pig farmers on alternate days.
- iii. Management of Leaf litter: The leaf litter generated in the campus is composed in a composting unit comprising bacterial, vermicomposting, simple composting



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pits and a vermiwash unit. These units were made operational on the campus which also provided hands-on training to students.



- iv. **Waste paper** generated during the house examinations is sold periodically to the paper-recycling vendors as per University guidelines.
- v. Broken furniture, sanitary items, pipes and other construction and demolition-related wastes are given to the authorised vendor for proper disposal.
- vi. Laboratory machinery and equipment which becomes obsolete, unusable or beyond economical repair is written-off and given to government-authorised vendors.
- vii. An incinerator has been installed to dispose of sanitary waste.



- viii. Milk bag recycling bin has been installed in the college. MOU has been signed with the Milk Bag Recycling Team. A recycling vendor recycles the milk bags every month.



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- ix. A Bio Reactor has been installed on campus to effectively manage horticulture waste.



- **E-Waste**

An E-waste collection bin is installed in the E-waste store for the proper disposal of electronic products that are unwanted, not working, and nearing or at the end of their useful life.



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- **Biomedical Waste**

The biomedical waste generated from bacterial culture is autoclaved at 121°C under 15 lbs pressure for 30 minutes before being disposed of to contain the spread of unwanted bacterial cysts and spores.



- **Initiatives for Reduce, Reuse, Recycle**

- Ban on Single-Use Plastic in Campus:** Single-use plastic, including plastic cold drink bottles less than 1 litre, is banned in the College premises. The students and staff are encouraged to adopt use eco-friendly products for

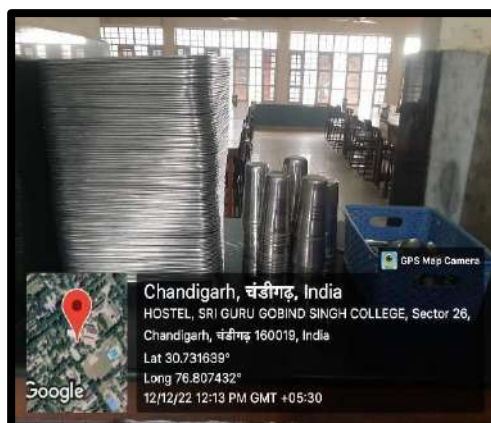


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reducing the use of plastic. The use of stainless steel utensils is promoted in canteen and hostel mess. During celebration of Founder's Day and other religious occasions eco-friendly green *pattals* are used to serve food in *Langar*.



- ii. International Plastic Free Day is celebrated by NSS by launching campaigns on 'No plastic Use' and 'Reuse Before Recycle'.

<https://www.facebook.com/watch/?v=581518552761118>

<https://www.facebook.com/NSSSGGS26OFFICIAL/posts/2470469529910018>

iii. **Promoting Paper-Less Initiatives**

- a) Office automation has largely reduced the use of paper for administrative purposes including maintenance of records, leave application etc.
- b) Internal notices and communications regarding admissions, examination, fees etc. are done through email and broadcasting messages.
- c) The library is partially automated with bar-coded books. Library membership smart cards are issued to students to get access to these books. The College library has e-library facilities with INFLIBNET, N-List and DELNET.
- d) Most of the storage is in digitised form in the library, laboratories and various departments.
- e) Prints and photocopies are taken on both sides of the pages to avoid excess paper usage.
- f) The single side printed papers are reused for internal office work.



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## E. Water and Energy Conservation

- Water Conservation and Rainwater Harvesting Initiatives
  - i. Rainwater Harvesting Unit has been installed to reuse the rainwater collected from the rooftop of Gurudwara Sahib.
  - ii. Water storage tanks have been installed for reuse of water in Botanical Garden. Rainwater from rooftop of boys hostel is stored in the water tank of Botanical garden to water the plants



- iii. Plantation of drought-resistant plants such as *Desi Beriyan (Zizyphus sp.)*, *Jand (Prosopis)*, *Bougainvillea*, *Karir (Capparis)*, *Amaltas (Cassia fistula)*, *Aloe vera*, *Sedum*, *Sansevieria* (Mother-in-law's Tongue), *Euphorbia*, *Kalanchoe*, *Agave*, etc. is encouraged.
- iv. Treated tertiary water is used for watering the lawns, herbal garden and playgrounds. This helps in preventing the wastage of potable fresh water.
- v. Grey water generated from washrooms is connected to the Municipal Corporation Sewage system with a well maintained drainage system of the College.
- vi. To overcome water shortage, watering cans are used for irrigation instead of water pipes
- vii. The water dripping from the air conditioners of the administrative office is used to water the plants in front of the Administrative office.





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viii. Overflowing of rooftop tanks is avoided with the floaters.

## ix. ENERGY MANAGEMENT

i. A Solar Power Plant with a capacity of 100 kw is installed on the roof of Boys' Hostel and College buildings.



Solar Panels on the rooftop of Boys Hostel of the College



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- ii. Solar lights are also installed in the College premises



Solar Light in Boys Hostel



Solar Light in Bebe Nanaki Garden

- iii. Committed efforts are being made by the College to reduce the carbon footprint by installing power efficient electricity devices such as 5-star energy-efficient AC units, LED lights, UPS connected systems.
- iv. Audit of energy efficient heating, cooling, lighting and water systems in the campus has been conducted.

## F. Research and Development

- An Observation and Research Centre has been created in the Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees, to involve students and faculty of various streams. Various observations and studies are underway on growth of the mini forest under different conditions characterised as follows:
  - i. Plants have been grouped into different layers – shrub, sub tree, tree and canopy – in each sq m. Such a multi-layered dense green forest will eventually become maintenance-free due to the *Miyawaki* technique used during plantation.
  - ii. 100 % organic, zero pesticides
  - iii. Natural biodiversity habitat for pollinators
  - iv. More CO<sub>2</sub> absorption and sequestration



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- v. SPM reduction and ground water recharge
- vi. Soil conservation
- vii. Regeneration of ecosystem



View of Observation and Research Centre in the mini forest

Students of the Department of Botany and Zoology are involved in the study of restoration of native plant habitat vital to preserving biodiversity since it forms the ecological basis upon which life depends. The mini forest has improved the biodiversity index of the area by attracting many species of birds and insects, which are disappearing from the environment. Students of Chemistry and Biotechnology are involved in projects for *in vitro* antioxidant potential and phytochemical screening of the native species of trees. In a way, this forest has provided a platform for inter-disciplinary research. Students of History, Literature and Religious Studies are involved in studying and preserving the historical, cultural and religious significance of various species of trees growing in the mini forest. Many noteworthy research publications, presentations and projects pertaining to environmental issues have been undertaken by the faculty.



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- **Research undertaken by Faculty on issues pertaining to Environment**

1. Dr Kawalpreet Kaur authored a research article 'Role of Spirulina in Structural Remodeling of Synapse in Telencephalon of Chronic Unpredictable Stress Model of Zebrafish' in Annals of Neurosciences(Online first) ISSN: 0972-7531.
2. Dr IPS Sidhu presented 02 papers: 'Ecological Consequences of Plastics: A Threat' at Panjab University CDC sponsored Regional Level Seminar on Present Status, Distribution and Ecology of Wildlife in Punjab organised by AS College, Khanna, Feb 13, 2023 and 'Conservation of Rain Water in Rural Areas of Punjab' at one-day National Conference on Methods and Challenges to Harvest Water for Sustainable Development organised by BAM Khalsa College, Garshankar, Hoshiarpur, Punjab, Feb 15, 2023.

## **G. Activities Conducted on Theme of Environmental Sustainability**

During the session 2021-22, the College has successfully engaged students through various activities and has sensitised them about the significance of conserving the environment and the ethics pertaining to prudent use of natural resources.



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- **Tree Plantation Drives**

The College conducted various tree plantation drives under *Dharat Suhavi* Environment Society, Campus Beautification and NSS Unit.

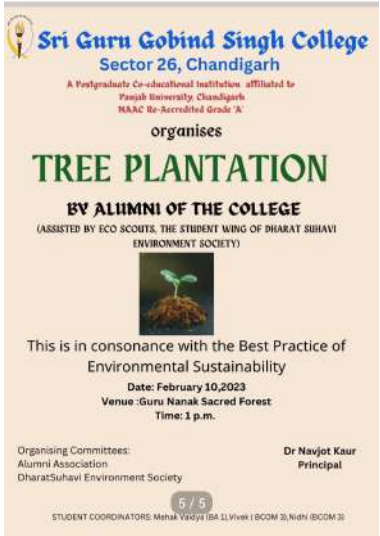
Plantation Drives		
<p>i. Tree Plantation commemorating World Forest Day, 2023</p> <p>Date: March 21, 2023</p> <p>Organised by: Dharat Suhavi Environment Society</p>	<p>In the Balihari Kudrat Healing Herbs Garden, <i>Morus alba</i> (Shahtoot) was introduced, known for its medicinal properties. This initiative aimed to instill an appreciation for the environment, contributing to Sustainable Development Goals. The planting of native species improved air quality, fostering a healthier environment for students and staff while promoting community responsibility. These efforts aligned with the Best Practice of Environmental Sustainability and echoed the G20 summit motto of 'One Earth, One Family, and One Future,' contributing to broader sustainable development goals.</p>	 
<p>ii. World Sikh Environment Day, 2023</p> <p>March 13, 2023</p> <p>Organising Committees:</p> <ul style="list-style-type: none"> <li>-Guru Nanak Sacred Forest Committee</li> <li>-Dharat Suhavi Environment Society</li> </ul>	<p>World Sikh Environment Day was celebrated by planting herbal plants associated with the humanist and environmentalist beliefs of Shri Guru Har Rai Sahib Ji in the Guru Nanak Sacred Forest, the urban mini forest on Campus which containing 600 native species of trees. New native species <i>Neolamarckiacadamba-Kadamb</i> was introduced in the forest which is one of the important medicinal plants Native to India and is</p>	 



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	<p>widely used in Ayurveda. The extract formulated from the tree's bark, leaves, and other parts is said to cure many diseases such as diabetes, cardiovascular disorders, cancer and liver damage.</p>	
<p>iii. Tree plantation by distinguished alumni on Alumni meet and distribution of saplings</p> <p>February 10, 2023</p> <p>Organising Committees:</p> <p>-Dharat Suhavi Environment Society</p>	<p>Plantation of herbal saplings was done in the Balihari Kudrat Healing herbs garden. Saugaat Gift a sapling scheme aims to uphold the Best Practise of Environmental Sustainability. Inculcates instinct of appreciating and protecting the environment and achieving a sustainable environment. These are attempts to upholding the Best Practice of Environmental Sustainability and also achieving the motto of G 20 summit, 'One Earth, One Family and One Future' thereby contributing to achieving the sustainable development goals.</p>	



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iv. World Wetland Day, 2023  
Date: February 06, 2023  
Organised by:  
Dharat Suhavi Environment  
Society

Students acquired knowledge about the ecological significance of wetlands, recognising them as vital sources of water, food, livelihoods, and habitats for diverse wildlife, including endangered species. Walking along the scenic trail in the beautiful forest area, students encountered a rich variety of birds, animals, trees, shrubs, herbs, grasses, and climbers. The experience led to an enhanced connection with nature, fostering a deeper appreciation for outdoor spaces among the students and potentially influencing more sustainable lifestyle choices. The initiative also aimed at community engagement, forming a network of nature enthusiasts motivated to actively participate in conservation efforts and spread awareness. The nature trail to Sukhna Lake successfully blended education, conservation, and recreation, contributing to the overarching goal of establishing a profound connection between students and the natural habitat.





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v. Selfie with Plant Campaign

Date: 04 June, 2022

Organised by: Dharat Suhavi  
Environment Society

A Green Initiative was undertaken by both teaching and non-teaching staff, alongside students, through an Eco-friendly Campaign. This involved planting trees and capturing selfies. The college achieved the top position among all institutions for the successful execution of this campaign, recognised by the Mahatma Gandhi National Council of Rural Education under the Department of Higher Education, Ministry of Education, Government of India. A total of 909 trees were planted, with corresponding selfies capturing these moments.



Colleges wise compiled data of Chandigarh

Sr no	Name of the college	District	State	No of selfies
1.	Sri Guru Gobind Singh College Sector 26	Chandigarh	UT	909
2.	PGCCG-11 Chandigarh	Chandigarh	UT	801
3.	MCM DAV college for women Sector 30	Chandigarh	UT	676
4.	Dev Sanyal College for Women, 45B	Chandigarh	UT	501
5.	PGCCG-10 Chandigarh	Chandigarh	UT	412
6.	PGCCG-10 Chandigarh	Chandigarh	UT	376
7.	Shree Gurbani Singh College for Women, Sec 26	Chandigarh	UT	296
8.	Dev Sanyal College of Education Sector 36	Chandigarh	UT	175
9.	Govt. Home Science College Sec 10	Chandigarh	UT	116
10.	GGGHS-12 Chandigarh	Chandigarh	UT	112
11.	Post Graduate Govt College Sector 44,	Chandigarh	UT	56
12.	Govt. College of Commerce and Business Administration Sector 30 Chandigarh	Chandigarh	UT	27
13.	Government College of Education Sector 20 Chandigarh	Chandigarh	UT	12

## ● SUSTAINABLE INITIATIVES PROMOTED BY SGGSC-26

- i. Under the Eco-green Project ‘*Saugaat -Gift-a-Sapling*’ started in 2019, the College felicitates all visiting dignitaries and guests with herbal/flowering plants as a community outreach programme. More than 200 dignitaries visiting the campus were felicitated with the saplings cultivated in the Botanical Garden of the College.





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- **Zero Litter Hour and Litter Free Campus Campaign:** The College, in collaboration with the Swarmani Youth Welfare Association, an NGO partner of the Department of Environment, UT administration, Chandigarh has initiated an eco-friendly practice of Zero Litter Hour to be observed everyday. This initiative, commemorating Swacchta Pakhwada 2023, aims to keep the College campus litter-free. The faculty and students enthusiastically participate in the cleanliness drive, clean the Campus and collect plastic garbage from every nook and corner of the College premises. Emphasis is laid on proper collection and segregation of waste, and the students are made aware about the imperative need to maintain cleanliness in the campus and their general surroundings.



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- **SGGSC Initiative to promote Green Writings:** The College has initiated the eco-friendly practice of incorporating environmental friendly pens and pencils crafted and pencils occur through stalls organised on the campus by dedicated eco-scouts.



- **Production and Sale of Organic Manure:** The eco-scouts actively contribute to the promotion of environmental sustainability by organising stalls for the sale of organic manure, cultivated within the College campus.





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- The College arranges stalls for the sale of saplings sourced from the Botanical Garden, packaged in eco-friendly jute bags as part of an initiative to endorse environmental sustainability and advocate for a plastic-free environment.



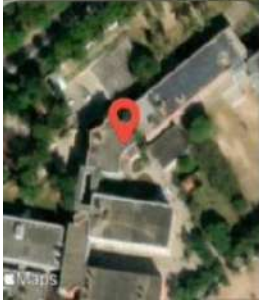
- **SGGSC Initiative to promote zero food wastage:** The College has instituted a comprehensive Zero Food Wastage program encompassing hostel messes, college cafeterias, and diverse on-campus events. This initiative seeks to mitigate food wastage through strategic meal planning, awareness initiatives, and potential redistribution programs. On Founder's Day, the Eco scouts notably engaged in a praiseworthy endeavor by showcasing placards that promoted zero food wastage.



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Chandigarh, CH, India

Sector 26, Chandigarh, 160019, CH, India

Lat 30.732304, Long 76.807901

22/05/2023 GMT+05:30

Note : Captured by GPS Map Camera









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- Competitions and other Activities

Competitions and other activities		
Activity	Outcome	Proofs
<p>i. International day for Biological Diversity</p> <p>Date: May 27, 2023</p> <p><u>Organising Committee:</u></p> <ul style="list-style-type: none"> <li>• Dharat Suhavi Environment Society</li> <li>• Guru Nanak Sacred Forest</li> <li>• BAAZ Bird Watchers Society Paws Humane Society</li> <li>• Institution Innovation Council</li> </ul>	<p>The initiative aimed to motivate the youth towards embracing Millets as a sustainable dietary choice, aligning with the International Year of Millets 2023 under India's G20 Presidency.</p> <p>Participating in the weekly Millet Meals at the College Hostel Mess not only fostered an appreciation for diverse species and ecosystems but also cultivated a deeper understanding of the interconnectedness within the living world.</p> <p>Beyond promoting environmental awareness, it sought to encourage a healthier diet among students, contributing to a sustainable and well-balanced lifestyle.</p>	  
<p>ii. World Earth Day</p> <p>Date: April 17, 2023</p> <p><u>Organising Committee:</u></p>	<p>The visit to Guru Nanak Sacred Forest, SGGS College by students from Strawberry Fields High School and SGGS Collegiate Public School, Sector 26, Chandigarh left them inspired and informed, reinforcing their responsibility for environmental preservation in line with the College's Best Practice of</p>	



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<ul style="list-style-type: none"> <li>Guru Nanak Sacred Forest Committee</li> <li>Dharat Suhavi Environment Society</li> </ul>	<p>Environmental Sustainability. They gained increased awareness, commitment to conservation, and a deeper understanding of the Guru Nanak Sacred Forest's historical and cultural significance. The experience also provided a sense of inner peace from the serene surroundings and enhanced knowledge of sustainable practices in the forest's ecosystem.</p>	 <p><b>एसजीजीएससी ने वर्ल्ड अर्थ डे 2023 मनाया</b></p> <p>चंडीगढ़   श्री गुरु गोबिंद सिंह कॉलेज-26 ने स्टॉनरी फोरेस्ट्स हाई स्कूल और एसजीजीएस कॉलेजिअट पब्लिक स्कूल-26 के स्टूडेंट्स को एक विशेष यात्रा आर्गनाइज कर वर्ल्ड अर्थ डे 2023 सेलिब्रेट किया।</p>
<p>iii. Marathon for Life : Lifestyle for environment</p> <p>25 March 2023</p> <p><u>Organising Committee:</u></p> <p>Department of environment, Yuvsatta-Ngo, Department of sports, Chandigarh administration</p>	<p>Sh. Dharampall Dalai, IFS, the Director of the Department of Education, and other dignitaries praised the initiative to protect the environment. Over 700 young runners participated in a six-kilometer marathon from Sukhna Lake, celebrating G20 Presidentship of India and Chandigarh's role in the initiative. Themed 'LIFE - Lifestyle for Environment,' the marathon aimed to raise awareness about health and environmental issues. The event concluded with chief guests presenting medals, gift hampers, and certificates to the winners, promoting community engagement and encouraging positive lifestyle changes for the well-being of all.</p>	 <p><b>MARATHON for LIFE</b> LIFESTYLE FOR ENVIRONMENT 25TH MARCH 2023</p>
<p>iv. Sale of Bio Organic Manure</p> <p>March 7, 2023</p> <p><u>Organising Committee:</u></p> <p>Department of Botany, Dharat Suhavi Environment Society, MGNCRE, Institution Innovation Council</p>	<p>100 compost packets were successfully sold to both faculty and students, resulting in a substantial revenue generation. This initiative not only contributed to financial gains but also provided students with valuable lessons in entrepreneurship and financial skills.</p>	 <p><b>Sri Guru Gobind Singh College</b> Sector-26, Chandigarh A Degree College of Education affiliated to Panjab University, Chandigarh</p> <p><b>An Initiative to promote Environmental Sustainability</b> A Stall for Bio Organic Manure</p> <p><b>A start up to promote entrepreneurship</b></p>



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<p>v. World Wetland Day, 2023</p> <p>Date: February 06, 2023</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society</p>	<p>Students acquired knowledge about the ecological significance of wetlands, recognising them as vital sources of water, food, livelihoods, and habitats for diverse wildlife, including endangered species. Walking along the scenic trail in the beautiful forest area, students encountered a rich variety of birds, animals, trees, shrubs, herbs, grasses, and climbers. The experience led to an enhanced connection with nature, fostering a deeper appreciation for outdoor spaces among the students and potentially influencing more sustainable lifestyle choices. The initiative also aimed at community engagement, forming a network of nature enthusiasts motivated to actively participate in conservation efforts and spread awareness. The nature trail to Sukhna Lake successfully blended education, conservation, and recreation, contributing to the overarching goal of establishing a profound connection between students and the natural habitat.</p>	
<p>vi. World Wildlife week</p> <p>October 20, 2022</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society</p>	<p>Awareness was raised about the significance of biodiversity and conservation, emphasising the promotion of responsible and sustainable interactions with wildlife. Students received information about avifauna during a trail in the Guru Nanak Sacred Forest—an urban mini-forest featuring native species on the campus.</p>	<p>स्वेना न्यूज/मीना, चंडीगढ़ - श्री गुरु गोबिंद सिंह कॉलेज सेक्टर 26 चंडीगढ़ में बर्ड वॉचिंग का परिचय पर इंटरैक्टिव टॉक आयोजित करके विद्यार्थियों को वन्यजीव संसाधन के महत्व के बारे में शिक्षित करने का प्रयत्न किया। इस अवसर पर छात्रों को वन्यजीवों के महत्व के बारे में शिक्षित करने का प्रयत्न किया। डॉ. नवजोत कौर, प्रिंसिपल ने छात्रों को प्राकृतिक संसाधनों के संरक्षण के लिए प्रोत्साहित किया और छात्रों को प्रेरित करने के लिए बर्ड वॉचर्स और पर्यावरण संसाधनों के प्रयासों की सराहना की।</p> <p>Dainik Seva, Chd Seva, Date 21-10-2022, Page No. 02</p>





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<p>vii. National Wildlife Week</p> <p>October 6, 2022</p> <p>Organising Committee:</p> <p>NSS Unit</p>	<p>Awareness lecture on Wildlife in Butterfly Park.</p> <p>The events were organised with Dept of Forest and Wildlife Chandigarh and Youth Innovative Society, NGO.</p> <p>A Special Lecture Wildlife Week by Dr Abdul Qayum, IFS, Chandigarh Administration in the presence of Sh D. Dalai, IFS and Sh Nitin Yadav, IAS</p>	
<p>viii. Waste Collection Drive and Awareness Session on Waste Management</p> <p>September 16, 2022</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society, SAP committee, Solid Waste Management Committee, NSS unit</p>	<p>The initiative aimed to inspire the youth to actively participate in preserving Mother Earth through proper waste collection and disposal. The students exhibited high motivation for the cause and enthusiastically joined the Swachhta Mission.</p>	
<p>ix. World Ozone Day, 2022: Awareness rally to combat carbon footprint</p> <p>15 september , 2022</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society</p>	<p>The Eco Scouts organised an awareness rally to encourage the public to adopt environmentally friendly practices and contribute to the preservation of the ozone layer. Students actively participated in the rally, holding placards and emphasising the importance of protecting the environment. They urged drivers to switch off their vehicles at red lights to minimise carbon footprint and CO2 emissions. The Eco Scouts successfully conducted the rally,</p>	



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<p>Solid Waste Management Committee MGNCRE SAP</p>	<p>effectively spreading awareness to reduce CO2 emissions.</p>	
<p>x. Zero Litter Hour Campaign September 02, 2022 <u>Organising Committee:</u> Dharat Suhavi Environment Society</p>	<p>The College attempted to make the College a Zero Waste Campus and celebrate zero litter hour An attempt was made to make the campus 100 percent litter free with assistance of faculty members and eco scouts</p>	
<p>xi. Cleanliness Drive June 06, 2023 <u>Organising Committee:</u></p>	<p>It aimed to promote cleanliness awareness and enhance the overall aesthetic appeal of the campus. A sense of moral and civic responsibility was instilled among students. Practice of no littering was encouraged.</p>	
<p>Workshops/Seminars/Interactive Sessions</p>		



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<p>i. World Heritage Day</p> <p>Date: April 18, 2023</p> <p><u>Organising Committee:</u></p> <ul style="list-style-type: none"> <li>• Dharati Suhavi Environment Society</li> <li>• Unnat Bharat Abhiyaan</li> <li>• Institution Innovation Council</li> <li>• NSS Units</li> <li>• Rotaract Club</li> </ul>	<p>In collaboration with PGIMER, Chandigarh, our event celebrated World Heritage Day 2023, promoting millets as a sustainable alternative. Aligned with our focus on environmental sustainability, the workshop featured experts discussing the health benefits and environmental advantages of millets. It included a millet-based cooking competition and a demonstration by Chef Vikas Chawla. Notably, students from Sri Guru Gobind Singh Collegiate Public School, sector 26, Chandigarh, also participated.</p>	
<p>ii. World Water Day 2023- An Interactive Lecture on Sustainable Water Conservation Measures</p> <p>March 24, 2023</p> <p><u>Organising Committee:</u></p> <ul style="list-style-type: none"> <li>• Dharat Suhavi Environment Society</li> </ul>	<p>The students gained heightened awareness of the significance of water conservation and its environmental implications. This increased awareness prompted them to actively collaborate with others in pursuit of a sustainable water future, fostering dialogue and the exchange of ideas. The interaction left the students feeling empowered to make informed decisions regarding water conservation, inspiring them to take concrete actions toward building a sustainable future.</p>	



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<ul style="list-style-type: none"> <li>Rotaract Club, SGGSC</li> </ul>		
<p>iii. Eco club incharge Teachers Training Programme March 15, 2023</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment society</p>	<p>The stakeholders were informed about the fundamental principles of organic farming, emphasising the avoidance of synthetic pesticides and fertilizers, and the promotion of biodiversity. The session underscored the advantages of organic farming, including diminished chemical residues in food and enhanced soil health. Attendees were enlightened on how their consumer choices play a pivotal role in influencing farming practices and contribute to fostering a more sustainable and healthy food system.</p> <p>The College, was awarded the Best Herbal Garden Award 2023 by the Department of Environment, Chandigarh Administration and Yuvsatta NGO the role and efforts of the College was appreciated in promoting Environmental Sustainability</p>	 
<p>iv. International Day of girlchild: Interactive session January 24, 2023</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society, Innovation Cell , Dean Girl Students, Gender Champion Club</p>	<p>The event served as a platform that amplified the voices of girls, advocated for their rights, and celebrated their achievements, underscoring the ongoing need for sustained efforts to create a more equitable world for them. The overarching goal was to raise awareness about the global challenges faced by girls, promoting empowerment, gender equality, and facilitating access to education and opportunities for them.</p>	



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<p>v. World Pollution Prevention Day: Hybrid Vehicles Awareness Campaign</p> <p>December 08, 2022</p> <p><u>Organising Committee:</u></p> <p>RAC SGGSC</p>	<p>Students and faculty received education on hybrid technology and its advantages, such as improved fuel economy and reduced greenhouse gas emissions. Through hands-on experiences with various hybrid and non-hybrid vehicle technologies, both students and teachers developed an appreciation for the significance of embracing technological advancements. This initiative aimed to bolster activities that contribute to the conservation and protection of natural resources, promoting ecological sustainability. Additionally, the goal was to empower communities to adopt local solutions and stimulate innovation to address the causes and mitigate the effects of climate change.</p>	
<p>vi. Tier III Training Programme on Water Availability and Management at Local level: Seminar</p> <p>19.11.2022</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society</p>	<p>Participants were informed about sustainable water management practices, motivating them to devise local strategies for efficient water use and conservation. This effort contributed to strengthening community engagement in decision-making processes related to water. As a result, there was an improvement in the capacity of participants to implement small-scale water projects aimed at addressing local needs. The initiative also fostered enhanced collaboration among stakeholders, promoting effective governance of water resources at the local level.</p>	



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<p>vii. World Toilet Day, 2022: November 19 2022</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society</p>	<p>The initiative motivated the youth to embrace healthy sanitation practices, fostering increased community engagement and behavioral changes toward improved sanitation practices. It also encouraged support for initiatives addressing sanitation challenges on a global scale.</p>	
<p>viii. Sewa Diwas under 'Swachh Amrit Mahotsav' September 17, 2022</p> <p>Organising Committee: NSS Unit</p>	<p>Indian Swachhata League Place: Rose Garden, Sec 16, Chandigarh.</p> <p>Swachh Amrit Mahotsav was organized by MC Chandigarh to celebrate 8 years of Swachh Bharat Mission, with the Goal of Becoming garbage free District.</p>	
<p>ix. Interactive lecture on Rain water harvesting and water management September 14, 2022</p>	<p>Interactive lecture on Rain water harvesting and water management. September 14, 2022. The session sensitised students to the judicious use of water, addressing the depletion of water resources in contemporary scenarios. Students gained insights into protecting and conserving natural water sources, with an emphasis on the global</p>	



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<p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society, Waste Management committee, MGNCRE</p>	<p>significance of adopting Rainwater Harvesting and Recharging Groundwater. The engaging session involved student volunteers in demonstrating methods related to groundwater recharge. Furthermore, the resource person encouraged students to consider pursuing water management training courses.</p>	
<p>x. Virtual Lecture on Role of Shramdan (voluntary contribution) in Swachhta Campaign</p> <p>September 13, 2022</p> <p><u>Organising Committee:</u></p> <p>Dharat Suhavi Environment Society</p>	<p>The Resource Person for the event was Mr. Samarth Sharma, a Consultant at MGNCRE, Ministry of Education, Government of India. He underscored the significance of Shramdaan (voluntary contribution) in the Swachhta Campaign, urging students to actively engage in activities aligned with the Swachhta Action Plan</p>	



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<p>xi. Akshay Urja Diwas, 2022 on the theme Renewable energy: Future prospects and Challenges</p> <p>August 25, 2022</p> <p><u>Organising Committee:</u></p>	<p>The event highlighted renewable energy benefits, showcased technologies for interest and investments, facilitated collaboration in the sector, engaged local communities, conducted skill development workshops, offered funding avenues for startups, shared case studies, collaborated with educational institutions, and engaged the public in promoting collective responsibility for renewable energy solutions.</p>	
<p>xii. Awareness Session on Entrepreneurial Avenues in E-Waste Management</p> <p>June 2, 2022</p> <p><u>Organising Committee:</u></p>	<p>Students gained insights into the environmental repercussions of e-waste and explored diverse entrepreneurial opportunities within e-waste management. They were motivated to assume responsibility for environmental conservation through proactive engagement in e-waste management initiatives.</p>	

## H. Green, Environment, Energy and Water Audits

The College conducted Environment & Green Audit, Water Audit and Energy Audit realising the social responsibility of the institution by evaluating its contribution towards a sustainable future. These audits focused on the green campus, waste management, water management, air pollution, energy management and carbon footprint etc being implemented at the College. The green initiatives carried out by the College towards environment and sustainability has been highly appreciated in the audit certificate. These





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audit reports will further facilitate more effective management and governing of the eco-friendly initiatives in the College and provide students and staff a better understanding of Green impact on campus.



Certificate of Environment & Green Audit



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AUDIT CERTIFICATE

 EHS  
alliance

CERTIFICATE No. EHSAP33B

## CERTIFICATE

**M/s Sri Guru Gobind Singh College**  
Sector-26 Chandigarh 160019 (India)

*Has been assessed by us for the comprehensive study of Energy Audit on institutional working framework to fulfill the requirement of*

### Energy Audit

*The energy saving initiatives carried out by the college has been verified on the report submitted and was found to be satisfactory.*

*The efforts taken by management and faculty towards all type of energy used in college and sustainability are highly appreciated and noteworthy*

Date of Audit: 27 Dec, 2021

  
Manoj Kumar  
For EHS Alliance Services



EHS Alliance Services  
Plot No A-72, Surya Vihar, Near Sector-4, Gurugram (Haryana)-122001  
Phone-0124-2250624, Email: ehsalliance@gmail.com, www.eshall.in

Certificate of Energy Audit



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## Water Audit Report

### A. Awards And Accolades



Solar Chandigarh Ambassador Award 2022: The College has been awarded the Solar Chandigarh Ambassador Award 2022 by CREST, Chandigarh Administration and Yuvsatta NGO on August 23, 2022 for having maximum kilowatt solar energy on the campus.



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Mission Waste to Wealth: The College was awarded the Certificate of Commendable Work for achieving 2nd Rank for its extraordinary service in the field of Single Use Plastic & Electronic Waste free Chandigarh under "Mission Waste to Wealth" (Single Use Plastic Waste & Electronic Waste Management) in the "College Category", organised by Swarmani Youth Welfare Association U.T. Chandigarh in collaboration with Department of Environment, Chandigarh Administration, Pollution Control Committee & Education Department, Chandigarh Administration from 25 March, 2022 to 31 December, 2022.





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Certificate of Excellence: The College received Certificate of Excellence on March 20, 2023 by Chandigarh Administration for initiating the novel idea of creating a Guru Nanak Sacred Forest, a Mini Urban Forest with Native Species. This project was recognised to be in congruence with the essence of National Education Policy 2020 and as an endeavour to provide holistic and multidisciplinary education by involving academia, youth, government and private agencies.



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Dated:04.6.2022 Memo no: MGNCRE/GOI/488



## Certificate of Appreciation

This certificate is in recognition of the outstanding work done by **Dr. Navjot Kaur Principal** from **Sri Guru Gobind Singh College Sector 26 Chandigarh** for carrying out environment awareness activity 'Selfie with plant' on the occasion of World Environment Day. The activity is initiated by the college in collaboration with MGNCRE, Ministry of Education Government of India.

Your kindness, courage, and strength are greatly appreciated.

Mr. Samarth Sharma  
Programme Coordinator  
MGNCRE, Ministry of Education  
Government of India

Dr. Shatrughan Bhardwaj  
National Coordinator  
MGNCRE, Ministry of Education  
Government of India

Mahatma Gandhi National Council of Rural Education  
Department of Higher Education, Ministry of Education  
Government of India



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Selfie with Plant: The college received a Certificate of Appreciation for carrying out environmental awareness activity 'Selfie with plant' on the occasion of World Environment Day by MGNCRE, Ministry of Education Government of India.

## B. Carbon Footprint Reduction and Natural Water Recharging with Green Cover

Such a majestic green cover in the College campus is a step forward towards reducing the carbon footprint in the vicinity. This footprint is produced via direct emissions of greenhouse gases associated with combustion of fossil fuels for heating and transportation, indirect emissions associated with electricity purchases and finally other emissions related to solid waste, refrigerants, land use management, etc. A typical tree can absorb around 21 kilograms of carbon dioxide (CO<sub>2</sub>) per year; however, this figure is only achieved when the tree is fully grown - seedlings will absorb significantly less than this. Over a lifetime of 100 years, one tree could absorb around a tonne of CO<sub>2</sub>.

The expanded green cover of the College includes a fast growing mini urban forest with Miyawaki technique. A variety of plants, shrubs, herbs and grass act as natural water recharging systems. The College persistently enriches its floral diversity with various plantation drives with the active participation of the students and staff.



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