



**Netaji Subhash Chander Bose Memorial
Govt. College Hamirpur,
Himachal Pradesh**



Tel. No.: 01972-222227, FAX: 01972-222227, E-mail: gchamirpur-hp@nic.in

BEST PRACTICE

"Eco Revolution: Nurturing Consciousness for a Sustainable Campus – Ek Prayaas at NSCBM Govt. College Hamirpur"



Best Practice: 2

Title of the Practice: "Eco Revolution: Nurturing Consciousness for a Sustainable Campus – Ek Prayaas at NSCBM Govt. College Hamirpur"

Objectives of the Practice:

- Pioneering the creation of an eco-friendly campus through proactive initiatives.
- Cultivating environmental consciousness among staff, students and stakeholders through diverse activities.
- Optimizing water and energy utilization within the college through sustainable practices.
- Harnessing renewable energy sources and energy-saving devices to reduce the carbon footprint.
- Establishing a scientific waste management system in the college.
- Preserving and enhancing the lush green cover.

The Context:

In the contemporary era, environmental consciousness takes center stage at numerous National and International platforms. As human activities continue to disrupt the delicate balance of our ecosystems, addressing environmental degradation becomes paramount. NSCBM Govt. College Hamirpur, an esteemed institution sprawling across 22 acres in Himachal Pradesh, with nearly 5000 students and 100 dedicated staff members, emerges as a trailblazer in the pursuit of Environmental Conservation and Sustainable Development.

The Practice:

- **Green Initiatives:**
 - Ayush Garden: It brings staff and students closer to Ayurveda and nature and increases their knowledge about Indian medicinal plants.
 - Botanical Garden: It helps students to know about plants, their collection and their classification. It also serves for the conservation of rare and endangered species.
 - NavgrahVatika: In the Vatika, each plant represents a different celestial force and it gives the power of navgrah. It removes vastudosh, purifies air and creates positive energy.
 - ChemigreenVatika: It has been created to develop love for nature and to instill environment consciousness in the college community.
 - Green Cover: To enhance the greenery and beauty of college, many ornamental plants have been planted.
- **Solar Energy Initiatives:** The college has installed a 22KWP (Grid Connected) solar power plant atop the main building. Solar water heaters have been installed in both hostels.
- **Energy Efficiency Initiatives:** All CFLs and incandescent lamps have been replaced with LED bulbs. The college employs solar lights throughout the campus, replacing conventional sodium lamps.

- **Water Conservation Initiatives:** The College has installed a 4000-liter rainwater harvesting system and strategically dug rainwater collection pits to recharge groundwater.
- **Waste Management Initiatives:** The college applies diverse methodologies for management of biodegradable and non-degradable solid, liquid, E-waste materials. The college has a vermin compost unit for organic waste. For E-Waste Management, college has signed a MOU with a recognized agency. The college has been declared a burning-free and plastic-free zone.
- **Green and Energy Audits:** The College conducts green and energy audits, refining its environmental endeavors for maximum efficacy.
- **National Seminar on Environment Conservation:** A National seminar on Environment was organized on 19th March 2022.

Evidence of Success:

- Ayush Garden, Botanical Garden, NavgrahVatika, and ChemigreenVatika has enhanced the beauty of college and made it a unique college in the state.
- Use of solar energy ensures uninterrupted electricity supply within the college and also reduces electricity bills.
- Being a clean and green sanctuary, college attracts more students.

Problems Encountered and Resources Required:

➤ **Problems Encountered:**

- Limited financial resources.
- Coordination with external agencies.
- Maintaining the motivation level in voluntary work.

➤ **Resources Required:**

- Budget for creating different facilities.
- Budget for their annual maintenance.
- Adequate staff.

Various Initiatives of College for a Sustainable Campus



Navgrah Vatika



Chemigreen Vatika



Solar Power Plant on the Roof of Main Building



Solar Lights in the Campus





Solar Water Heaters in Boys and Girls Hostel



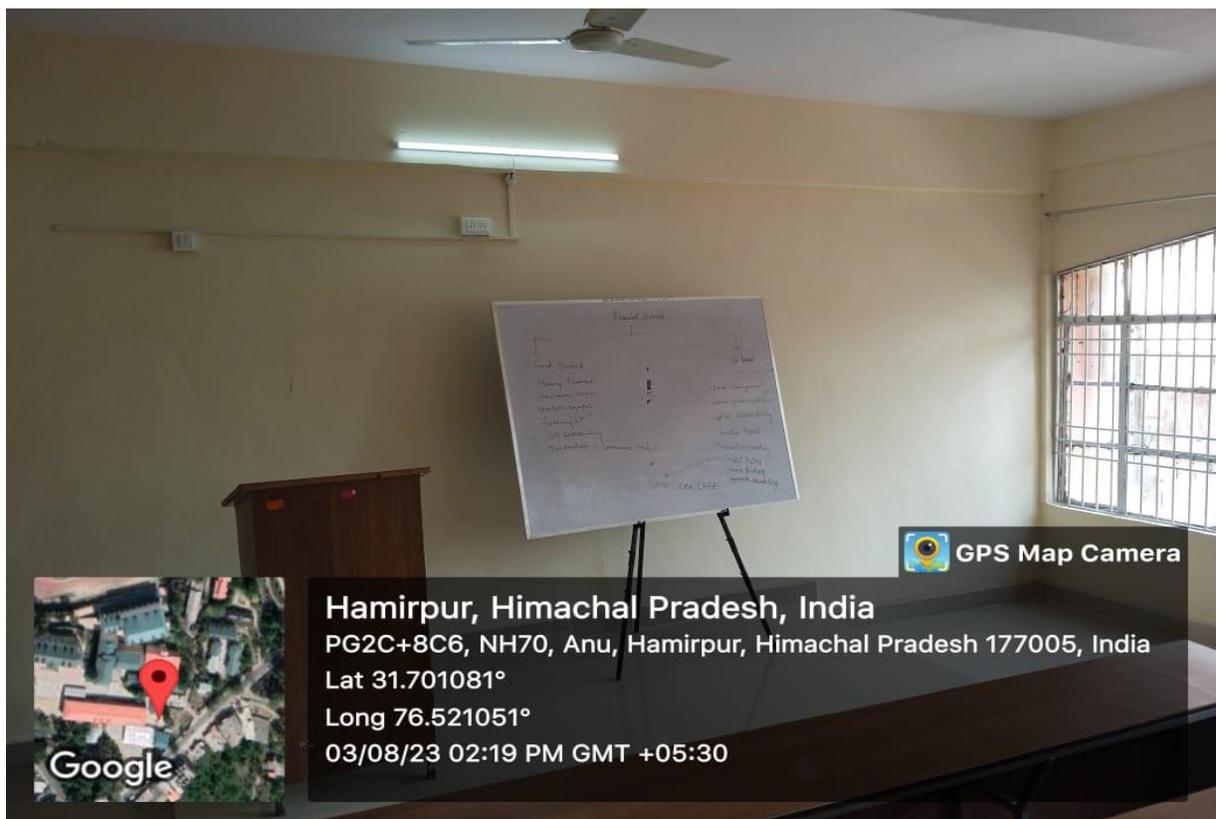
Use of LED Lights in the College





Google

GPS Map Camera
Hamirpur, Himachal Pradesh, India
PG2C+H28, Anu, Hamirpur, Himachal Pradesh 177005, India
Lat 31.70143°
Long 76.520006°
04/08/23 10:25 AM GMT +05:30



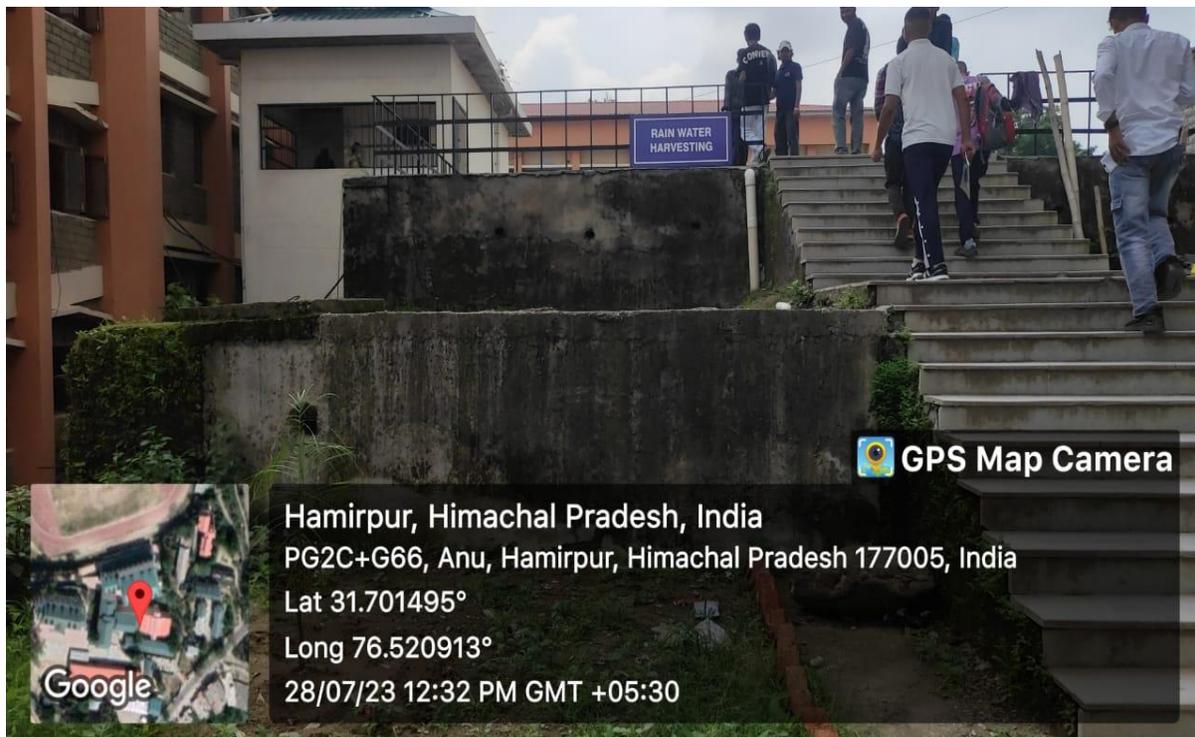
Google

GPS Map Camera
Hamirpur, Himachal Pradesh, India
PG2C+8C6, NH70, Anu, Hamirpur, Himachal Pradesh 177005, India
Lat 31.701081°
Long 76.521051°
03/08/23 02:19 PM GMT +05:30

Water Storage Tank

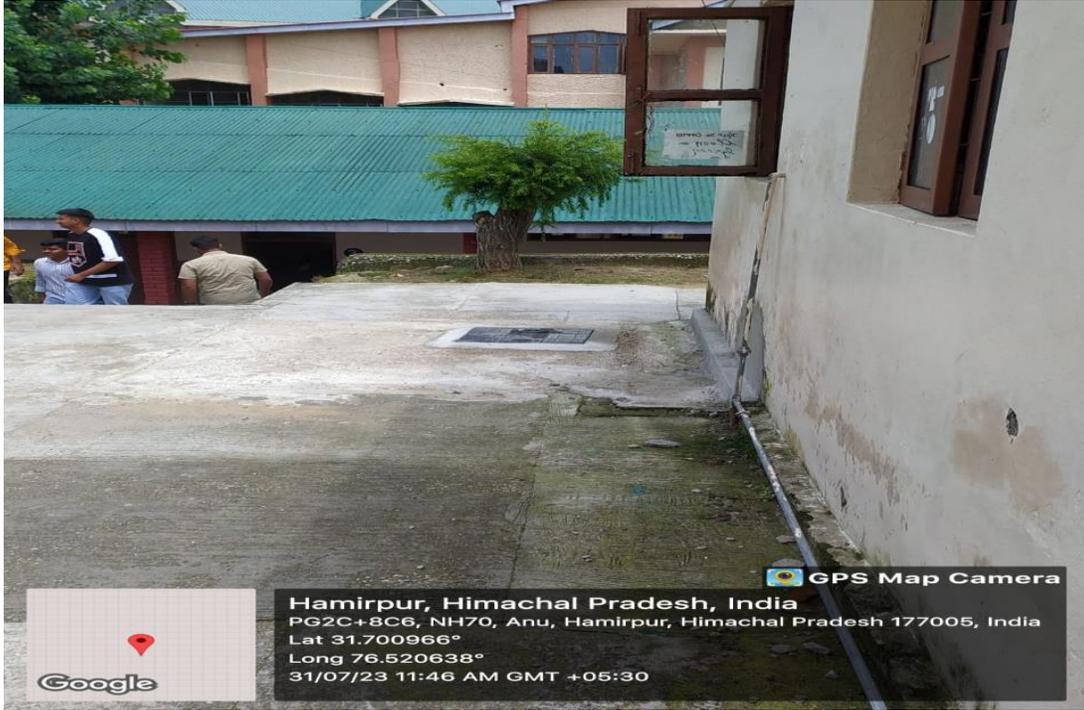


Rain Water Harvesting Tank





Soak Pits for Waste Water



Chemical Waste Management



MOU for E-Waste

भारतीय गैर न्यायिक
दस
रुपये
रु.10
भारत
TEN
RUPEES
Rs.10
INDIA
INDIA NON JUDICIAL

हिमाचल प्रदेश HIMACHAL PRADESH 19AA 968988

This AGREEMENT is entered at Nalagarh on this 08th Day of the Month of MAY 2023

BETWEEN

M/S SHIVALIK SOLID WASTE MANAGEMENT LIMITED Unit-II having its registered office at Village Majra P.O.- Dabhota, Tehsil- Nalagarh, Distt.-Solan, Himachal Pradesh, Works at: Village Upperla Nangal, P.O. & Tehsil-Nalagarh Distt. Solan(H.P.), a Company registered under the Companies Act,1956 and currently represented by its CEO Shri Ashok Sharma, Age about 64years residing at Zirakpur, (PB), (hereinafter referred to as "SSWML", which expression shall where context so requires or admit of, be deemed to include its successors or assignees) of on one Part.

AND

M/S Principal, NSCBM Govt. College Hamirpur ~~Pvt. Ltd./Public Limited~~ /Proprietor Firm/Partnership Firm/Private Limited Company registered under the _____ having its registered office/factory at Hamirpur and currently represented by its Proprietor/Partner/Authorized Signatory/Director Dr. Pramod Patial age about 54Years, residing at NSCBM Govt. College Hamirpur.

(Hereinafter referred to as MEMBER which expression shall where the context so requires or admits of, be deemed to include its successors or assignee)of the other Part.

Water Conservation Program in the College Campus (07-02-2023)



Cleanliness Drive in the Campus and Awareness Rally (10-08-2022)



Plantation Drive in the Campus (28-07-2022)



Cleanliness Drive in the Campus (28-07-2021)

विश्व प्रकृति संरक्षण दिवस के अवसर पर एनएसएस स्वयंसेवियों ने रौपे औषधीय पौधे

हमीरपुर (कपिल) : स्थानीय नेताजी सुभाष चंद्र बोस स्मारक राजकीय महाविद्यालय में राष्ट्रीय सेवा योजना इकाई द्वारा 'विश्व प्रकृति संरक्षण दिवस के अवसर पर पौधारोपण कार्यक्रम' आयोजित किया गया। महाविद्यालय प्राचार्य डॉ. अंजू बता सहगल बतौर मुख्य अतिथि उपस्थित रही। स्वयंसेवियों को समर्पित करते हुए प्राचार्य महोदया ने कहा कि 'प्रकृति का संरक्षण करना हम सभी का कर्तव्य नहीं बल्कि जिम्मेवारी भी है, वर्तमान समय के युवाओं को प्राकृतिक संरक्षण और पौधारोपण के लिए स्वेच्छिक तौर पर आगे आकर इस राष्ट्र/समाज तथा प्रकृति विकास में अपना विशेष योगदान देना चाहिए, हमारे कार्य ही हमारे जीवन के आधार होते हैं इसलिए बेहतर कार्य करने चाहिए। वन महोत्सव के अन्तर्गत इस विशेष पौधारोपण कार्यक्रम में स्वयंसेवियों ने महाविद्यालय के प्रमुख द्वार व प्रांगण में औषधीय पौधे रोपे। इस अभियान में राष्ट्र/राज्य सेवा योजना इकाई अध्यक्ष टाकुर दीक्षित बलारिया व सक्रिय स्वयंसेवी राजत कुमार, रितिक परमार के साथ साथ सारिका शर्मा, आरजू शर्मा, खुशबु ईशाली, दीक्षा, कर्न, कार्तिक, सुजाता व तनु इत्यादि स्वयंसेवियों ने अपना स्वयंसेवी धर्म निभाते हुए अपनी महत्वपूर्ण भूमिका अभिनीत की।



पौधारोपण करते हुए।

दैनिक सवेरा Thu, 29 July 2021

epaper.dainiksaveratimes.org/



नेताजी सुभाष चंद्र बोस कॉलेज के परिवार में स्वयं सेवियों ने लगाए औषधीय पौधे



हमीरपुर | नेताजी सुभाष चंद्र बोस स्मारक राजकीय कॉलेज हमीरपुर में राष्ट्रीय सेवा योजना इकाई द्वारा 'विश्व प्रकृति संरक्षण दिवस पर पौधारोपण कार्यक्रम' आयोजित किया गया। प्रिंसिपल डॉ. अंजू बता सहगल बतौर मुख्यातिथि उपस्थित रही। कार्यक्रम अधिकारी डॉ. मनोज डोगरा व डॉ. राकेश कुमार शर्मा ने बताया कि राष्ट्रीय सेवा योजना के प्रमुख लक्ष्यों में से एक प्रकृति संरक्षण भी है इसी उद्देश्य को ध्यान में रखते हुए इकाई द्वारा 'प्रकृति का संरक्षण ध्येय हमारा' के शीर्षक के तहत वन महोत्सव का आयोजन कॉलेज में स्वयंसेवियों के संयुक्त प्रयासों से किया।

Plastic Eradication Drive in the Campus (02-10-2019)



Plantation Drive in the Campus (02-08-2018)



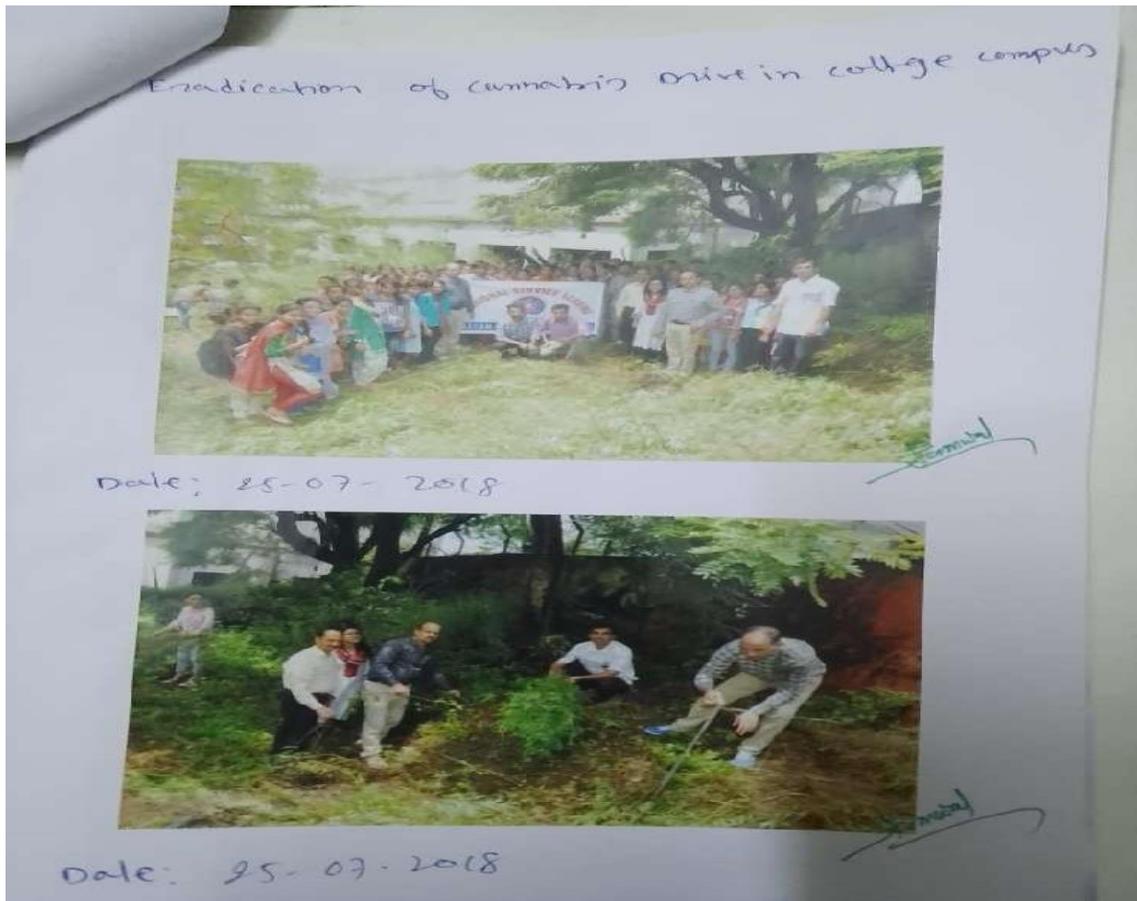
Clean and Green Initiatives in the Campus-2018

राष्ट्रीय सेवा योजना ईकाई,
राजकीय महाविद्यालय हमीरपुर।

9 से 15 अगस्त स्वच्छता श्रमदान अभियान।



Cannabis Eradication Drive in the Campus (25-07-2018)





National Seminar on Science, Environment, Education and Society (NSSEES)

(19, March 2022)

Organized by:

Department of Zoology
NSCBM Govt. College Hamirpur (H. P.) India

Organizing Committee:

<p>Patron:</p> <p>Dr. Anju Batta Sehgal, Principal</p> <p>Co-ordinator:</p> <p>Mr. Vijay Kumar, Associate Professor of Zoology</p> <p>Convenor:</p> <p>Dr. RC Sharma, Associate Professor of Chemistry</p> <p>Organizing Secretary:</p> <p>Mr. Sunil Pathak, Assistant Professor of Botany</p>	<p>Keynote Speaker:</p> <p>Prof. (Dr.) Anish Dua, GNDU Amritsar</p> <p>Co-ordinator:</p> <p>Dr. GC Rana, Associate Professor of Mathematics</p> <p>Convenor:</p> <p>Dr. Krishan Lal, Associate Professor of Zoology</p> <p>Organizing Secretary:</p> <p>Mr. Sandeep Kumar, Assistant Professor of Zoology</p>
--	---

E mail: himachalconference2019@gmail.com	Dr. Krishan Lal, Convenor Associate Professor of Zoology NSCBM Govt. College Hamirpur (H. P.) (Mobile No. 94182 14108)
Category	Registration Fee
Faculty/ Scientist	Rs. 500
Research Scholar/ Student	Rs. 300
Last Date for Abstract Submission	16 March, 2022
Communication about Acceptance of Abstract	17 March, 2022

<p>Participants are requested to send the Abstracts on the theme/ subthemes mentioned in this brochure, as an attachment on the e mail himachalconference2019@gmail.com in Words, Times New Roman font size 12, in English Language. Only duly registered participants shall be issued the certificates. Seminar Kit, Lunch, and Tea shall be provided to the registered participants only. Certificate of presentation shall be provided only to those presenters who shall actually, present their paper / work personally. Maximum authors allowed in a presentation/ paper shall be two. No TA/ DA shall be provided to the participants/ presenters.</p>	<p>About the Seminar-</p> <p>There are many changes in educational technology, environment, science and technology. Research and education on these topics are required continuously. Currently teaching and research are very important segments of education. Paper presentation, Publication, Project proposal preparation and submission are becoming very important part of higher education. This seminar is interdisciplinary in nature. Objective of this seminar is to provide an opportunity to the faculty and Research Scholars to present their research work. Content of the presentation/ research work must be free from plagiarism.</p>
---	---

About the College-

NSCBM Govt. College Hamirpur has been established in year 1965. At present different UG / PG courses are running in this college. This college is located at Headquarters of district Hamirpur, Himachal Pradesh. It is located approximately 2 km away from Hamirpur bus stand on Hamirpur- Palampur road at a place called Anoo. This college is affiliated to Himachal Pradesh University Shimla. Distance by road, from Shimla to Hamirpur is approximately 145 KM.

About Department-

Department of Zoology has four well qualified faculties. This department is teaching B. Sc. and M. Sc. Course. This department has well established labs.

Subthemes-

Recent Advances in Fish and Fisheries,
Recent Advances in Life Sciences,
Recent Advances in Science and Technology,
Recent Advances in Agriculture,
Recent Advances in Education,
Recent Advances in Science and Society,
Recent Advances in Environment and Society,
Recent Advances in Educational Technology,
Mental Health and Stress Management,
Leadership, Governance and Management in Higher Education,
Research and Education,
Digital India and Higher Education,
Open Educational Resources,
Environment and Conservation,
Wildlife and Conservation,
Conservation of Ecosystems,
Values and Ethics in Education,
Environment and Sustainable Development,
Teachings of Indian Philosophers and Sants for Humanity,
Inclusion and Education in India,

Science, Spirituality and Development,
Role of Information and Communication in Research and Development,
Research Methodology in Sciences,
Conservation of Biodiversity,
Preparation and Submission of a Project Proposal
Research and Publication Ethics,
Himalayan Ecology,
Preparation of a Manuscript for Scientific Publication,
Presentation of a Scientific Paper,
Plagiarism and Publication Ethics,
Environment, Culture and Society,
Health and Food Security,
Life Style Changes and Diseases,
Developing the Scientific Temper,
Technological Addictions and Challenges,
Violence, Tolerance and Parenting of Children,
Professional Development of Teachers,
Social Media and Education- Opportunities & Challenges

N.S.C.B.M. GOVT. COLLEGE HAMIRPUR, HIMACHAL PRADESH



AYUSH GARDEN

2021-22

AYUSH is an acronym that stands for Ayurveda, Yoga, Naturopathy, Unani, Sidha and Homeopathy which, focuses on holistic well-being and emphasizes natural healing methods. Going back to the timeline, government of India established a department named Indian System of Medicine and Homeopathy (ISM&H) in 1995 and renamed to AYUSH in 2003. The AYUSH system of medicine gained momentum when National Rural Health Mission (NHRM) in 2005 took strong initiative to mainstream it thus protecting the indigenous knowledge of medicine. In 2014 India founded Ministry of AYUSH with a vision to revive the profound knowledge of our ancient systems of medicine. Today AYUSH is considered as a strong alternative to highly appreciated allopathy system of medicine except surgery.

The prime objective of AYUSH is to provide high quality medical care at cost-effective rates by promoting traditional healing practices. The driving force behind the success of various time-tested traditional systems of medicine comes from the establishment of herbal gardens also known

as AYUSH Gardens. N.S.C.B.M. Govt. college Hamirpur is not behind in this regard and owns a well-established AYUSH garden developed under the consultation of **AYUSH Vibhag of Himachal Pradesh**. The main garden area presently contains thirty-four species of herbaceous or shrubby medicinal plants whereas tree species are planted in the other part of the campus. **The details of the main garden are as follows:**

1. Approximate area: Length 34.60 m x Breadth 13.30 m = 460.18 m²

2. Total number of demonstration blocks: 04 (A, B, C & D)

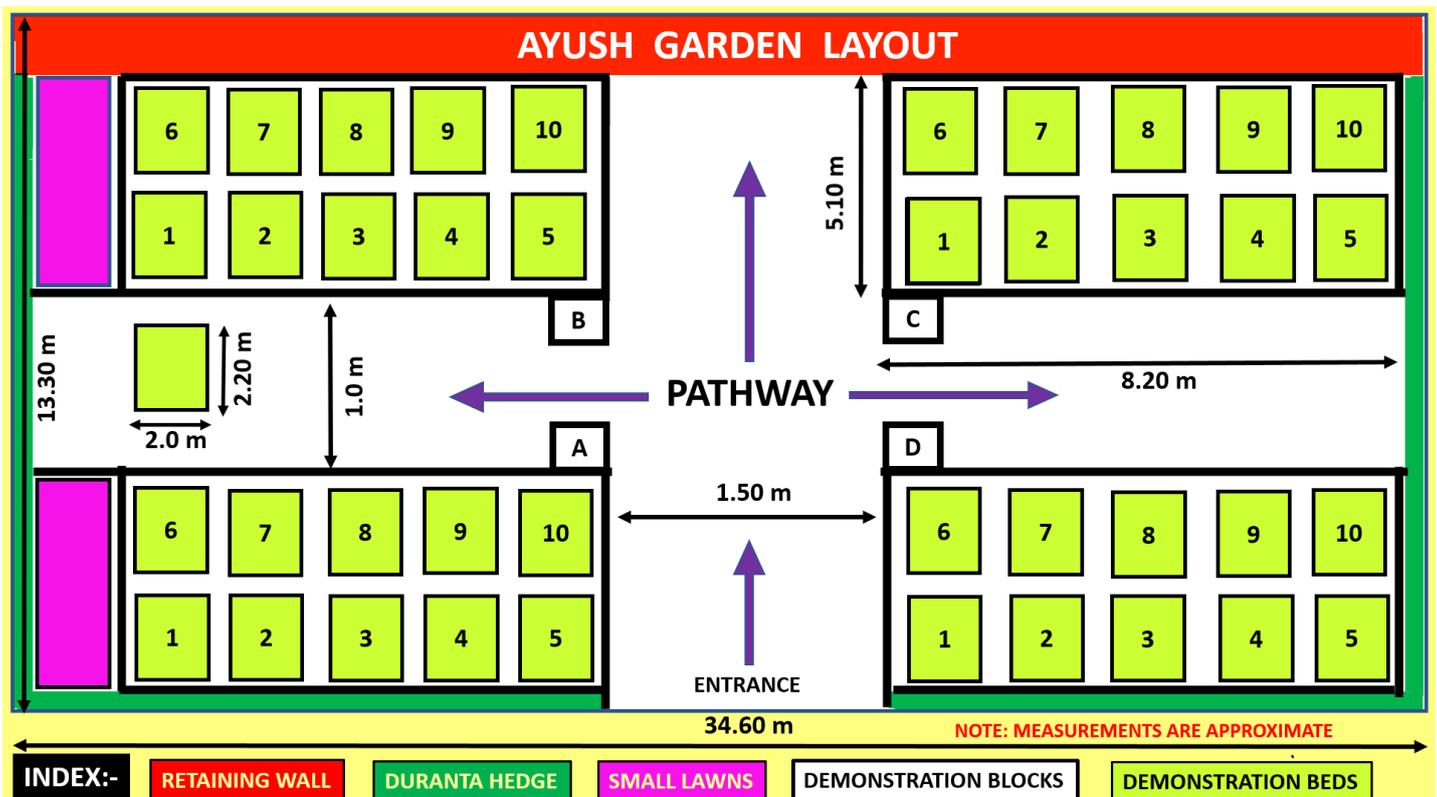
3. Approximate area of each demonstration block:

Length 8.20 m x Breadth 5.10 m = 41.82 m²

4. Total number of demonstration beds in each block: 10

5. Approximate area of each demonstration bed:

Length 2.20 m x Width 2.00 m = 4.4 m²



6. Main Source of medicinal plants: Herbal Garden Neri, Distt. Hamirpur

7. Additional source of medicinal plants: Forest department, Himachal Pradesh
Circle.

8. Literature source: Herbal Garden Neri, Distt. Hamirpur

9. Consultant from AYUSH Vibhag of Himachal Pradesh:

DR. Kamal Kumar Bhardwaj

Garden Incharge Herbal Garden Neri, Distt. Hamirpur

10. Species planted in demonstration block A

Demonstration bed no.	Botanical name	Common name
1	<i>Withania somnifera</i>	Ashwagandha
2	<i>Allium stracheyi</i>	Jangli pyaz
3	<i>Rauvolfia serpentina</i>	Sarpgandha
4	<i>Aloe barbedensis</i>	Ghrit kumari
5	<i>Asparagus racemosus</i>	Shatawari
6	<i>Cymbopogon flexuosus</i>	Lemon grass
7	<i>Catheranthus roseus</i>	Sadabahar
8	<i>Ocimum kilimandsharicum</i>	Kapoor tulsi
9	<i>Mentha spicata</i>	Spearmint
10	<i>Spilanthes acmella</i>	Akarkara

11. Species planted in demonstration block B

Demonstration bed no.	Botanical name	Common name
1	<i>Calotropis gigantea</i>	Aak
2	<i>Dodonea viscosa</i>	Mehandaru
3	<i>Viola</i> sp.	Banfsha
4	<i>Mimosa pudica</i>	Lajwanti
5	<i>Clitoria ternatea</i>	Aprajita
6	<i>Eclipta alba</i>	Bhringraj
7	<i>Centratherum anthelminticum</i>	Kalijiri
8	<i>Centella asiatica</i>	Mandookparni
9	<i>Costus igneus</i>	Insulin plant
10	<i>Abrus precatorius</i>	Ratti

12. Species planted in demonstration block C

Demonstration bed no.	Botanical name	Common name
1	<i>Piper longum</i>	Mag-pipli
2	<i>Tribulus terrestris</i>	Gokhru
3	<i>Acorus calamus</i>	Vacha / Sweet flag
4	<i>Bacopa monnieri</i>	Brahmi
5	<i>Murraya koenigii</i>	Curry leaf
6	<i>Abelmoschus moschatus</i>	Kasturi bhindi
7	<i>Sida rhombifolia</i>	Bla
8	<i>Psoralea corylifolia</i>	Bakuchi
9	<i>Lawsonia inermis</i>	Mehandi
10	<i>Adhatoda vasica</i>	Vasaka

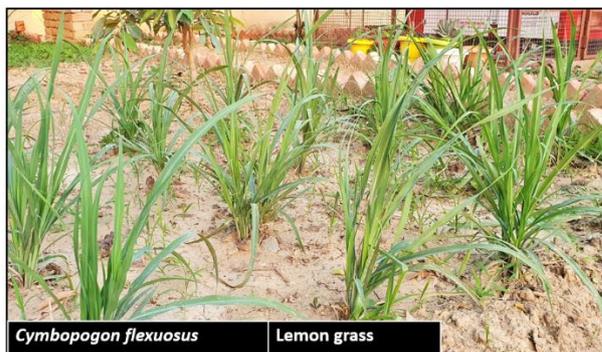
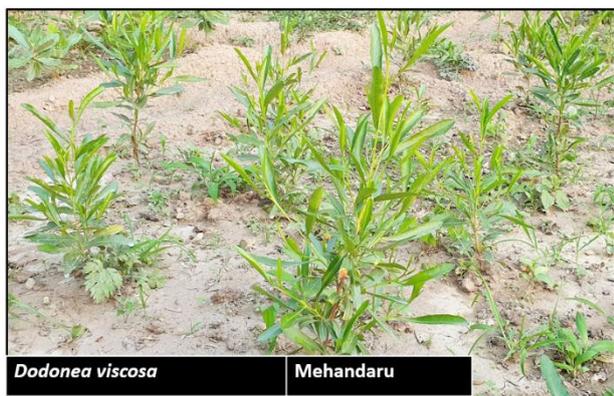
13. Species planted in demonstration block D

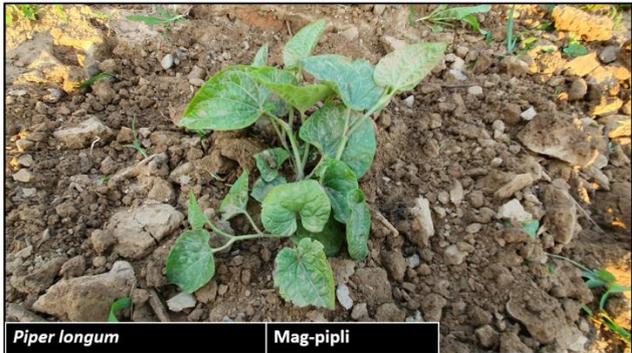
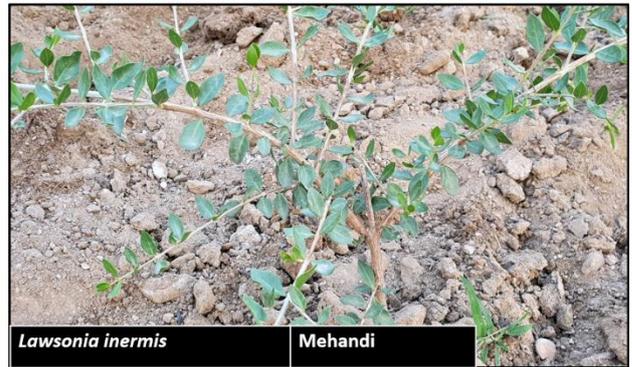
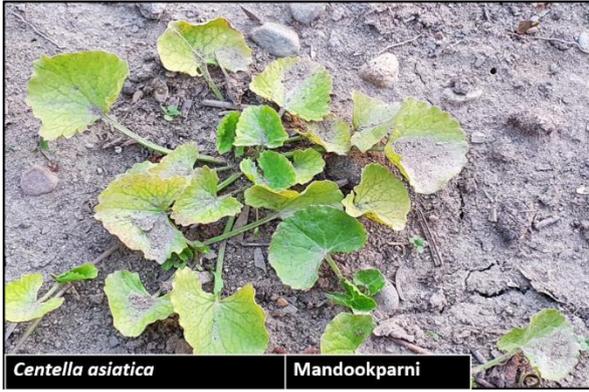
Demonstration bed no.	Botanical name	Common name
1	*	
2	*	
3	*	
4	<i>Asclepias currasavica</i>	Kaktundi
5	*	
6	<i>Andrographis paniculata</i>	Kalmegh
7	*	
8	*	
9	<i>Ocimum sanctum</i>	Ram tulsi
10	<i>Catheranthus roseus</i>	Sadabahar

***Empty beds**

Future plans: Areawise N.S.C.B.M. Govt. College Hamirpur is among the largest college of Himachal Pradesh. Therefore, the institute possess potential of expansion and aims to plant more tree species of medicinal importance in various parts of the campus at suitable locations.

IMAGES OF SOME MEDICINAL PLANTS GROWING IN THE AYUSH GARDEN OF N.S.C.B.M. GOVT. COLLEGE HAMIRPUR







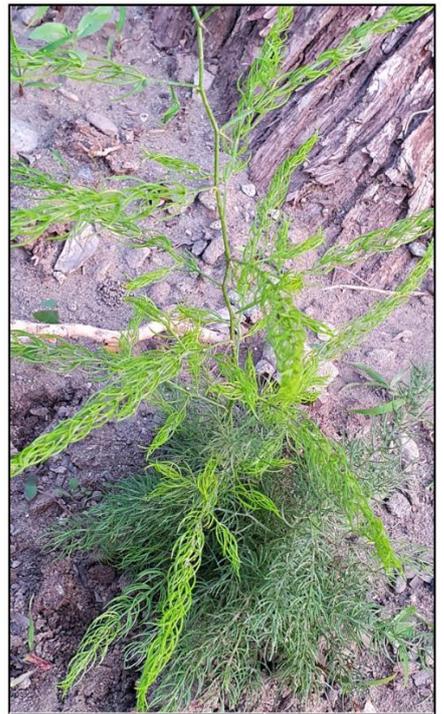
Bacopa monnieri

Brahmi



Abelmoschus moschatus

Kasturi bhindi



Asparagus racemosus

Shatawari



Ocimum sanctum

Ram tulsi



Andrographis paniculata

Kalmegh



Tribulus terrestris

Gokhru



NAVA GRAHA VATIKA (2021- 2023)

Department of BBA, BCA and PGDCA

Navagrah Vatika is very important source of energy if planted anywhere. This vatika represent different plants i.e. represents different celestial forces. So this vatika is used to get the power of Navagraha.

Let's see the benefits in points:

1. Navagrah Vatika or garden is used to get the power of Navagraha.
2. It protects the Vastu from the malefic effects of 9 planets.
3. It energizes the vastu where the plants are planted.
4. It gives the person healthy and wealthy life.
5. It protects from various diseases.
6. Navagraha vatika gives a new look to the vastu.
7. If planted heartily in auspicious time and in well directions. Then it attracts the power of divine energies.
8. Removes Vastu Dosha.

The BBA, BCA and PGDCA Department at our college are committed to promoting ecological performance. As part of this commitment, the department has developed a beautiful garden named Navagraha Vatika; The Navagraha Vatika is a unique garden that has been designed to promote biodiversity and sustainability. The garden features a variety of plants and trees that are native to the region, including medicinal plants and herbs. Overall, the Department is proud to have developed the Navagraha Vatika and will continue to work towards promoting sustainable practices in all its operations.

Navagraha Plants with its Direction

S.no.	Plants Name	Direction	Description
1	Aak/calotropis gigantea	Middle or Centre	Represent Sun or Surya
2	Peepal	North -East	Jupiter or Guru
3	Sami or Prosopis Cineraria	West	Saturn or Shani
4	Plash or butea monosperma	South-West	Moon or Chandra
5	Neem or Azadirachta Indica	South-East	Budh /Mercury
6	Khair /Cutch tree	East	Mangal /Mars
7	Ashwagandha/Indian winter cheery	South	Ketu
8	Chandan / Santalum album	North	Rahu
9	Gular / Cluster fig	North-West	Shukra / Venus

Different Activities

Sr.no.	Date	Detail of activities	No. Of Students Participated
1.	16-092021	<p>World Ozone Day is observed on September 16 every year to spread awareness among people about the depletion of ozone Layer find possible solutions to preserve it. Students of BBA actively participated in the awareness programme.</p>  <p style="text-align: center;">Celebrated world ozone day(2021)</p>	30
2.	21-03-2022	<p>Celebrated World Forestry Day in the year 2022. The theme for 2022 is “Forest and Sustainable Production AND Consumption”.</p>  <p style="text-align: center;">Celebrated World Forestry Day (2022)</p>	40

Detail of activities

3. 22-04-2022

Students of BBA celebrated world earth day in the year 2022. The theme for the World Earth Day is in continuation of the 20022 theme, “Invest in Our Planet “we should work together towards building a healthy economy for the planet.



Celebrated earth day (2022)

<p>4.</p>	<p>05-06-2022</p>	<p>Members of Navagraha Vatika celebrated world environment day on 5th June, 2022 and aims at raising awareness and celebrating environmental action.</p>  <p style="text-align: center;">Celebrated world environment day(2022)</p>	<p>11</p>
<p>5</p>	<p>21-03-2023</p>	<p>Celebrated World Forestry Day in the year 2023. The theme for 2023 is “Forrest and health.”</p>  <p style="text-align: center;">Celebrated world forestry day (2023)</p>	

6

22-04-2023

Celebrated world earth day 2023: the theme for this year is “Be a part of the green revolution. For Earth Day 2023: Act (boldly), innovate (broadly), and implement (equitably).



Celebrated world earth day (2023)

7.

05-06-2023

Celebrated world environment day 2023: The theme for world environment day on 5th June 2023 focussed on solutions to plastic pollution under the campaign. "best plastic pollution.

Staff members

