



Bharatiya Jain Sanghatana

**BHARATIYA JAIN  
SANGHATANA'S**

**ARTS, SCIENCE AND COMMERCE  
COLLEGE, WAGHOLI, PUNE**

**BHARTIYA JAINSANGHATANA'S "WAGHOLI  
EDUCATIONAL REHABILITATION CENTER"**

**(WERC)**

**ENVIRONMENT AUDIT REPORT**

**2019-20, 2020-21**



## Principal Message....

I express my hearty wishes for success of this publication of  
'ENVIRONMENTAL AUDIT' 2019-20, 2020-21

WERC is one of the unique spiritual educational campus with quality education we are aware about the environment with cultural development, a fundamental feature of Indian ancient philosophy is a good environmental sense..

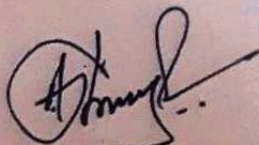
Efforts made by our institution and senior college for the protection of environment and biodiversity conservation is really unique, which may become pilot project gives the appropriate message about to avoid the fore coming natural disaster like global warming, land sliding, cyclone etc.

We try to maintain environment eco-friendly through activities like landscaping and plantation, rain water harvesting, solid waste Management, sewage treatment plant, energy conservation, e-waste management, and paperless technology to minimize the use of paper basically prepare from the plants

The ultimate aim of our institution is to develop youth as fertile probe who understand for their social responsibilities.

I express my hearty wishes for success of this movement of Green Audit Report for the new beginning of the conservation from the doorstep of the people.

Our ENVIRONMENTAL AUDIT reflects assessment and achievement of our vision and mission of the college.



**PRINCIPAL**

Bharatiya Jain Sanghatana's  
Art, Science & Commerce College  
Wagholi, Pune - 412207



## Preface

Environment Audit is not limited to the decorating the college campus but also corporate responsibility, with quality education keep college environment eco-friendly with its facilities.

Attempt has been made on that direction by Landscaping and Plantation, Solid Waste Management, Recycling of Waste Water, Conservation of Energy, Water Conservation, Rainwater Harvesting, Minimum of usage of paper and conducting several Environment Awareness Programs.

With keeping this view our campus clean and fresh, we tried to inculcate value of surrounding environment among the students through Environmental awareness activities like „Nature trail“, „NSS“, Healthy sapling competition, Quiz competition on environment, „Salad Decoration Competition“ Nursery and Gardening management course, Mushroom cultivation course, Production of vermin compost from solid waste and activity like Competition on Preparation of „Best from Waste“, preparation of trenches and plantation of tree sapling on „Green Sunrise Hill“, greenery of the campus is maintain by the student of „Karmaveer Bhaurao Earn and Learn Scheme“ and students and official staff from Department of Botany.

Greenery and eco-friendly sustainable environment lead to delightful, refreshing and healthier college campus increasing efficiency of every element of the college.

**GROW GREEN LIVE GREEN”**

**“Convenor and Internal Auditor”**

**(Dr. Devidas N. Patil)**

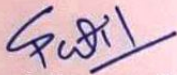
**Head, Department of Botany**

# CERTIFICATE

This to certify that Bharatiya Jain Sanghatana's Arts, Science and Commerce College, Wagholi, Pune have conducted "Environmental Audit" in the Year 2019-20, 2020-21 to assess the green initiative planning, effort, activities implemented in the college campus like Plantation, Waste management, Rain water harvesting, Energy conservation, Paperless technology and various Environmental Awareness activities. This green audit is also aimed to assess impact of green initiatives for maintainance of the campus eco-friendly.

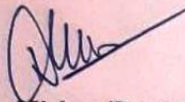
Place: Wagholi

Date: 20-06-2020



**Prof. Suvarna Patil**

**Internal Auditor,**



**Dr. Kishor Desarda**  
**IQAC coordinator**

**IQAC Coordinator**  
**Bharatiya Jain Sanghatana's**  
**Arts Science and Commerce College Wagholi**



**Dr. Devidas Patil**  
**Convenor, Environmental Audit**



**Principal**

**Principal**  
**Bharatiya Jain Sanghatana's**  
**Arts, Science & Commerce College,**  
**Wagholi, Pune - 412207.**



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## I- INTRODUCTION

Environmental studies deal with every issue that affects an organism. It is essentially a multidisciplinary approach that brings about an appreciation of our natural world and human impacts on its integrity. It is an applied science as it seeks practical answers to making human civilization sustainable on the earth's finite resources.

Its components include biology, geology, chemistry, physics, engineering, sociology, health, anthropology, economics, statistics, computers and philosophy.

The environment is not a single subject. It is an integration of several subjects that include both Science and Social Studies. To understand all the different aspects of our environment we need to understand biology, chemistry, physics, geography, resource management, economics and population issues. Thus the scope of environmental studies is extremely wide and covers some aspects of nearly every major discipline.

### **Scope and Importance:**

As we look around at the area in which we live, we see that our surroundings were originally a natural landscape such as a forest, a river, a mountain, a desert, or a combination of these elements. Most of us live in landscapes that have been heavily modified by human beings, in villages, towns or cities. But even those of us who live in cities get our food supply from surrounding villages and these, in turn, are dependent on natural landscapes such as forests, grasslands, rivers, seashores, for resources such as water for agriculture, fuel wood, fodder, and fish. Thus our daily lives are linked with our surroundings and inevitably affects them. We use water to drink and for other day-to-day activities. We breathe air, we use resources from which food is made and we depend on the community of living plants and animals which form a web of life, of which we are also a part. Everything around us forms our environment and our lives depend on keeping its vital systems as intact as possible.

Our dependence on nature is so great that we cannot continue to live without protecting the earth's environmental resources. Thus most traditions refer to our environment as 'Mother Nature' and most traditional societies have learned that respecting nature is vital for their livelihoods. This has led to many cultural practices that helped traditional societies protect and preserve their natural resources. Respect for nature and all living creatures is not new to India. All



our traditions are based on these values. Emperor Ashoka's edict proclaimed that all forms of life are important for our well-being in Fourth Century BC.

The industrial development and intensive agriculture that provides the goods for our increasingly consumer-oriented society use up large amounts of natural resources such as water, minerals, petroleum products, wood, etc. Nonrenewable resources, such as minerals and oil are those which will be exhausted in the future if we continue to extract these without a thought for subsequent generations. Renewable resources, such as timber and water, are those which can be used but can be regenerated by natural processes such as regrowth or rainfall. But these too will be depleted if we continue to use them faster than nature can replace them. For example, if the removal of timber and firewood from a forest is faster than the regrowth and regeneration of trees, it cannot replenish the supply. And a loss of forest cover not only depletes the forest of its resources, such as timber and other non-wood products but affect our water resources because an intact natural forest acts like a sponge which holds water and releases it slowly. Deforestation leads to floods in the monsoon and dry rivers once the rains are over.

Our natural resources can be compared with money in a bank. If we use it rapidly, the capital will be reduced to zero. On the other hand, if we use only the interest, it can sustain us over the longer term. This is called sustainable utilization or development.

**Importance:**

We live in a world in which natural resources are limited. Water, air, soil, minerals, oil, the products we get from forests, grasslands, oceans and from agriculture and livestock, are all a part of our life support systems. Without them, life itself would be impossible. As we keep increasing in numbers and the quantity of resource improving this situation will only happen if each of us begins to take actions in our daily lives that will help preserve our environmental resources. We cannot expect Governments alone to manage the safeguarding of the environment, nor can we expect other people to prevent environmental damage. We need to do it ourselves. It is a responsibility that each of us must take on as one's own.

**The productive value of nature:** As scientists make new advances in fields such as biotechnology we begin to understand that the world's species contain an incredible and uncountable number of complex chemicals. These are the raw materials that are used for



developing new medicines and industrial products and are a storehouse from which to develop thousands of new products in the future. The flowering plants and insects that form the most species-rich groups of living organisms are thus vital for the future development of man. If we degrade their habitat these species will become extinct. If one sees being sold or used, a product that comes from an illegally killed wild species, if we do not inform the authorities, we become a party to its extinction. Once they are lost, man cannot bring them back. When we permit the destruction of a forest, wetland or other natural area and do not protest about it, future generations are being denied the use of these valuable resources and will blame us for these rash and negligent actions towards the environment.

**Aesthetic/Recreational value of nature:** The aesthetic and recreational values that nature possesses enliven our existence on earth. This is created by developing National Parks and Wildlife Sanctuaries in relatively undisturbed areas. A true wilderness experience has not only recreational value but is an incredible learning experience. It brings about an understanding of the oneness of nature and the fact that we are entirely dependent upon the intricate functioning of ecosystems.

**The option values of nature:** While we utilise several goods and services of nature and enjoy its benefits, we must recognize that every activity that we do in our daily lives has an adverse impact on nature's integrity. Thus if we use up all our resources, kill off and let species of plants and animals become extinct on earth, pollute our air and water, degrade land, and create enormous quantities of waste, we as a generation will leave nothing for future generations.

#### **Concept of Sustainability and sustainable development:**

The definition of sustainability is not nearly as simple as it might seem, likewise with the definition of sustainable development. This is best illustrated by the fact that there are over 200 different definitions to answer what is sustainable development.

However, the most common definition was defined by the **Brundtland** Commission in 1987, who documented the sustainable development definition as:

*"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."*



## **Environment Awareness Program**

### **Aim and objectives:**

- 1. To plan, organize** and implement programmes like landscape and plantation, water management & conservation, and rain water harvesting.
- 2. To provide** education that prepares students for leadership and social responsibility teaching them to think and communicate effectively and develop a global awareness .
- 3. To introduce** environmental education programmes for strengthen the existing ecological and environment related training infrastructure.
- 4. To provide** consultancy to other institutions and organisations in for the establishment of similar institutions with a view to bringing sustainability.
5. To organize training programmes for vocationalisation of environmental careers.
- 6. To strengthen** Global Environmental Education Programmes for standardization of greening activities.
- 7. To introduce** environmental education programmes in strengthen the existing ecological and environment related training infrastructure.
- 8. To make special plans** for the studies Vermiculture, plantation, nursery development, water & energy conservation and management, rain water harvesting and other related fields.
- 9. To provide environmental education** that prepares students for leadership and social responsibility by teaching them to think and communicate effectively and develop global environmental awareness and sensitivity.



## Our Campus is Ecofriendly with following Aspect

### 1. Landscaping in Campus-

#### Activity-

Earlier our college campus land was a bare land. After establishment of the Wagholi Education Rehabilitation Center (WERC) in 1997, landscaping was done, 10 acres of land have various buildings such as School students Hostel, Canteen, School, Senior college, Staff quarters (A.B.C Type) and Ladies hostel.

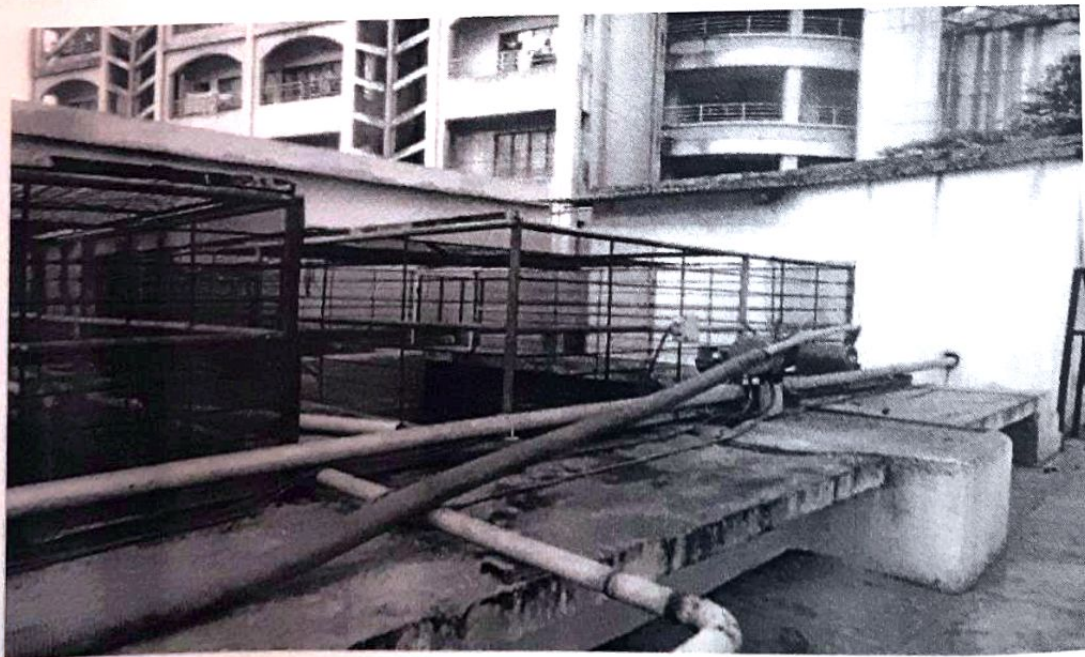
Surrounding area of the building was a bare land of rocks, due to scarcity of water it was challenging task to make the campus green, as without plants campus beautification and most important good aeration was impossible.

Since continuous years of efforts our WERC have developed as one of the Eco-friendly campus, entire campus is divided for specific type of plantation by planting 849 number of 90 species of plants. Students of Earn & Learn, N.S.S., Nature Club, Department of Botany and non-teaching staff all together take good efforts in maintaining the campus and keeping the campus green and clean.

### 2. Waste Water Treatment Plant-(STP)-

#### Activity/Observation :-

WERC campus includes hostel, school, senior college, staff quarter, ladies hostel, administrative building about 7,169 population including students, staff, and stack holders live in this campus, which requires about 41,74,854 liters of fresh water daily. Daily about 20,00,000 lits. of domestic waste water is collected and supplied for treatment in "Sewage water treatment plant"(STP), after the treatment it is circulated through pipe in garden for growing of plants in the campus which are the natural fan keeping environment clean and eco-friendly.





### 3. Solid Waste Management-

#### Activity/Observation

Solid waste is separated as **dry** and **wet**. Dry waste includes plastic, glass, paper, metals, wood and related product. Wet waste typically refers to organic waste usually generated as canteen waste, plant debris.

Dry waste is separated and it is given for its reuse and recycling to the recycler agency to avoid the pollution.

Wet waste is also known as organic waste. It is obtain from canteen, fallen leaves, litter, trash etc. produce in the campus, this waste needs to be disposed properly as it may lead to different environmental pollutions.

To avoid this we have implemented solid organic waste management activity, we run it at two levels

1. Decomposition of solid waste through the composting in pit, vermi-compost form solid organic waste.
2. Training to the students, farmers about production of organic manure like vermicompost, production of mushroom from the solid organic agricultural waste which ultimately conversion of Best from Waste, further the best bio fertilizer is used for plants of college campus.

#### 4. Vermicompost-



#### 5. E-Waste Management-

##### Activity/Observations:

With keeping view to minimize the pollution created through the E-waste, we have carried out the scientific disposal of E-waste by two ways

- 1) Collection of E- waste in E- waste box
- 2) Reuse of the component of unused electronic devices.



### **Collection of E-waste:**

We have installed E- waste box in the computer laboratory, and our students, staff lay the unused electronic devices and component like CD, PD, memory card etc. in it and thus collected. The reused and recycled E-waste is given to E-waste scrap purchaser for proper disposal of such E-waste. This activity is run throughout the year by collecting E-waste in E- waste box. In 2020 Campaigned E- waste collection by S.Y students of BBA and BCA Environment awareness studies as a project work along with mentioning the detail information of the E-waste its harmful effects generated. Out of this some was reused for preparation of best from waste activity. And some items were repaired. For the scientific disposal of the E-waste it was given to proper disposal agency.

## **6. Rain Water Harvesting-**

### **Activity /Observations:**

Rain water is primary source of fresh water. In our WERC campus the rainwater harvesting program activity is conducted in **two** ways:

- 1) Rain water discharge in trenches in garden and old dry bore.
- 2) Rain water harvesting for laboratory use after purification/distillation.
  - College campus is of 10 acres, with construction of School, college, hostel and canteen building. Maximum rain water is harvested in campus by construction of trenches in campus garden and remaining water is diverted to the dry bore well /pits increasing ground water level.
  - In College campus two locations are identified and pits are constructed near the dry bores. In rainy season water is collected and discharged for percolation it enhances the ground water level.
  - Rain water is collected every year from roof of the building (Table 2), after filtration and distillation it is used as distilled water for science laboratory of Chemistry, Physics, Botany, Zoology.

## **7. Minimizes Usage Of Paper- Activity/Observations**

Paper is a cellulosic, made from plants. Due to its use there is pressure created on the forest. To avoid this pressure, paperless technology such as & mail, SMS, Whats app various educational apps, software's and internet services are used by the institute for communication.

To send of document to the stakeholder, student, teachers, parents, Principal, management, institutes and internet is used and this paperless technology ultimately reflects our green initiatives.

We use of Digital Notice board for various notices for students

## **8. EVS-Activity-Plantation-Online**

**Introduction-** In Pandemic condition created due to infection of COVID-19 the whole world was stop because of lockdown declared by Government, To overcome this situation the Online plantation activity was organized by college to aware the students about the plantation and its importance in human welfare.



**Activity-** Environment Awareness students are encouraged for plantation activity in nearby household area as a part of the Project, here students will take care of planted saplings by him/her

**Outcome of Activity-** Students will encourage for plantation activity.

### 9. EVS-Project-2020-21 By Students

Sr.No.	Class	No of Students/ Projects	
		Semi-I	Semi-II
2	S.Y.B.A.	111	112
3	S.Y.B.Com.	326	326
4	S.Y.B.B.A (CA)	65	-----
5	S.Y.B.C.A. (Science)	56	56

### EVS-Project-2019-20

Sr.No.	Class	No of Students/ Projects
2	S.Y.B.A.	013
3	S.Y.B.Com.	268
4	S.Y.B.C.A. (Science)	66
5	S.Y.B.Sc.	58



## PHOTO GALLERY

### Environment Awareness Program-

1. **Plastic Waste Management-** Preparation of Hanging plant pots from waste bottle for for F.Y.B.Sc students on 21 Aug. 2019 Total 30 students participated for activity .



### Healthy sapling competition

Healthy Sapling competition conducted for all streams students on 20 Nov, 2019. Total 279 students participated for competition.





### बीजेएस महाविद्यालयामध्ये सुदृढ रोप स्पर्धा संपन्न

#### वाघोली प्रतिनिधी

भारतीय जैन संघटनेच्या कला, विज्ञान व वाणिज्य महाविद्यालयान वनस्पतीशास्त्र विभागातर्फे सुदृढ रोप स्पर्धेचे आयोजन करण्यात आले होते. विद्यार्थ्यांमध्ये पर्यावरण जागृती निर्माण व्हावी व वृक्ष लागवडी महत्त्व समजावून देण्यासाठी टाकाऊ घाटल्यामध्ये एक महिना अगोदर रोप लागवू न्याचे मसौदा करण्याचे आवाहन करण्यात आले. एकूण ३५० विद्यार्थी या स्पर्धेत सहभागी झाले. स्वातंत्र्य १० उत्कृष्ट विद्यार्थ्यांना बक्षिसे देण्यात आली या स्पर्धेचे



सुदृढ रोप स्पर्धी परीक्षे करताना प्राचार्य अशोक विवे

आयोजन वनस्पतीशास्त्र विभागप्रमुख डॉ. एन. पाटील, माधुरी पगारीया, विशद वाघमारे, संजय मानवतकर यांनी केले. माधुरी देशमुख व मनिषा बोरग यांनी परीक्षक म्हणून कामकाज पाहिले. याप्रसंगी विद्यार्थ्यांना प्रोत्साहन देण्यासाठी एस. व्ही. गायकवाड, डॉ. आर. अजळ, भूषण फडतरे, सचिन कांबळे उपस्थित होते. वाघोली | २१/९/२०१९

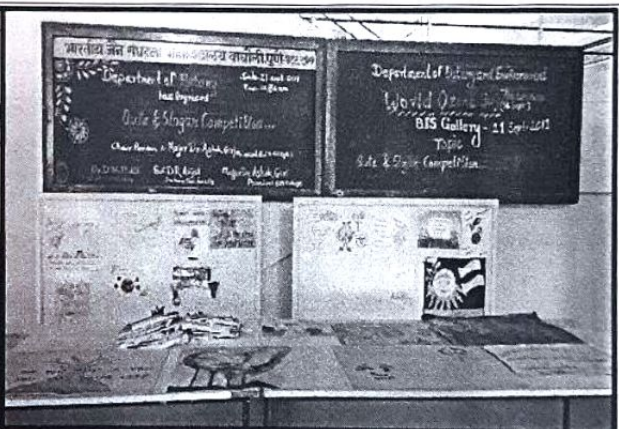


वाघोली सुदृढ रोप स्पर्धेत सहभागी झालेले भारतीय जैन संघटने महाविद्यालयवासी विद्यार्थी

### बीजेएस महाविद्यालयात सुदृढ रोप स्पर्धा

वाघोली भारतीय जैन संघटनेच्या कला, विज्ञान व वाणिज्य महाविद्यालयात वनस्पतीशास्त्र विभागातर्फे सुदृढ रोप स्पर्धेचे आयोजन करण्यात आले होते. विद्यार्थ्यांमध्ये पर्यावरण जागृती निर्माण व्हावी, यासाठी विभागातर्फे 'नॉन-टॉक्सिक' टाकाऊ घाटल्यामध्ये एक महिना अगोदर रोप लागवू न्याचे मसौदा करण्याचे आवाहन करण्यात आले होते. एकूण ३५० विद्यार्थी या स्पर्धेत सहभागी झाले. स्वातंत्र्य १० उत्कृष्ट विद्यार्थ्यांना बक्षिसे देण्यात आली. या स्पर्धेचे आयोजन वनस्पतीशास्त्र विभागप्रमुख डॉ. एन. पाटील, माधुरी पगारीया, विशद वाघमारे, संजय मानवतकर यांनी केले. माधुरी देशमुख व मनिषा बोरग यांनी परीक्षक म्हणून कामकाज पाहिले. याप्रसंगी विद्यार्थ्यांना प्रोत्साहन देण्यासाठी एस. व्ही. गायकवाड, डॉ. आर. अजळ, भूषण फडतरे, सचिन कांबळे आदी उपस्थित होते.

3. Slogan competition and Quiz Competition - Slogan Competition and Quiz Competition on account of 'World Ozone Day' Celebrated for all streams students on 21 Sep.2019 Total 97 students were participated.







4. Nature Trail Green Sunrise Hill Wagholi- Theme- Watering, Identification and Conservation Nature trail on Green sunrise Hill Wagholi - watering to plants activity by FYBSC students 18 Jan, 2020.





"GROW GREEN LIVE"

thank You

