

ENVIRONMENT, ENERGY AND GREEN  
AUDIT REPORT

OF

JANATA SHIKSHAN PRASARAK MANDAL'S

MARUTRAOJI GHULE PATIL

ARTS, COMMERCE AND SCIENCE  
COLLEGE

(COLLEGE CODE -0893)

NEAR RAGHAVENDRA SWAMI MATH,  
BOLHEGAON, AHMEDNAGAR.

(2022-23)

Environmental Audit

**Janta Shikshan Prasarak Mandal**



**Marutraoji Ghule Patil Commerce and Science College, Ahmednagar**

**414002**

**ENVIRONMENTAL GREEN AUDIT REPORT**

**(2022-23)**



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# College Building



Educational institutions are places for testing of ideas, conducting research, understanding and explaining trends, promotion and progress of knowledge—they are a protection from ignorance. The new challenge before the country at the beginning of the twenty first century is to become a developed society by the year 2030, which requires that not only a vibrant economy driven by knowledge has to be ushered in soon, but also a new society where justice and human values prevail has to be created. Moreover, challenges in higher education are no longer only nation centric. They have already attained global dimensions. With the explosive growth of knowledge in the past century and with the development of handy tools of information and communication technologies as well as of other scientific innovations, competition has become a hallmark of growth all over the World. As a result, knowledge is not only going to be the driver of Indian

economy, but also, it is going to permeate into all the strata of Indian society for a better quality .

In academic year 2016-17 college has shifted to new grand building for effective and impressive teaching. Modern independent well equipped laboratories, spacious ventilated classrooms, enriched library, magnificent playground and well experienced teaching faculty which enhances education status and quality

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## **Introduction**

Green audit can be defined as systematic identification quantification Reporting and analysis of Components of environmental diversity. The 'Green Audit' aims to analyse environmental Practices within the outside college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organization whose exercises can cause risk to the health of inhabitant and the environment. Through Green Audit, one gets a direction as how to improve the condition of the environment and there are various factors that have determine the growth of carrying out green audit.

Green audit is assigned to the criteria 7 of NAAC, which is a self-governing organization of India which declare the institution as grade A, B OR According to the scores assigned during the accreditation

## **Executive Summary**

Green audit is defined as an official examination of the effects a college has on the environment. As a part of such practice, internal environmental audit (Green Audit) is college, **“Late Marutraoji Ghule Patil Art’s, Commerce and Science College, Nagapur, Ahmednagar** conducted to evaluate the actual scenario at the campus. Green audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. Green auditing and the implementation of mitigation measures is a win-win situation for all the college, the learners and the planet. It can also create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. Green auditing promotes financial savings through reduction of resource use. It gives an opportunity for the development of ownership, personal and social responsibility for the students and teachers. Thus it is

imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. The baseline data prepared for the “Late Marutiraoji Ghule Patil Art’s, Commerce and Science College, Nagapur Ahmednagar, will be useful tool for campus greening, resource management, planning of future projects, and a document for implementation of sustainable development of the college. Existing data will allow the college to compare its programmes and operations with those of peer institutions, identify areas in need of improvement, and prioritize the implementation of future projects. We expect that the management will be committed to implement the green audit recommendations. We are happy to submit this green audit report to the Late Marutiraoji Ghule Patil Art’s,Commerce and Science College,Nagapur Ahmednagar.

**About College: -**

Education is important means of social transformation, through the education we can bring social,Cultural and Economic Development in the Society. With the inspiration of this Thought, Late Marutraoji Ghule Patil Established on 6<sup>th</sup> june 1959 at Dahigaon Taluka –Shevgaon,Dist-Ahmednagar.The institute provide educational facility to the students from various stratus of society for intellectual, economic and Social Development and to create scientific attitude among them. The main objective and aim of this institution is to give educational facility to girls and boys of weaker, deprived and economically Backward Sections of the Society and make them capable to face challenges of 21<sup>st</sup> century. With this motiveHon’bleDr. Narendraji Ghule Patil President of Institute and Hon’ble Chandrashekharji Ghule Patil,Secretary of Institute established Late Marutraoji Ghule PatilArt’s,Commerce and Science college in the Historical city of Ahmednagar in 16th July2009.This college under the Functioning of “Janta Shikshan Prasarak Mandal’s”. This College is one of many educational institutes Successfully run by Sanstha. The balanced existence of environment is the secured basis of life. Its conservation is an indispensable aspect of education. The preservation of every natural



object is prime duty of human. Future Technologies Should emphasize the dependence between technology and nature.

The technology based product should be Eco Friendly. Proper Environment Management is essential for sustainable development. For this the college has taken much and more efforts not only in the campus but also beyond the campus. Modern independent well equipped laboratories, spacious ventilated classrooms, enriched library, magnificent playground and well experienced teaching faculty which enhances education status and quality. Beyond the university curriculum the college has also organized extra and co-curricular activities such as National Service Scheme, Earn and Learn Scheme, personality development programme, Special Lecture Series Scheme, educational excursion and competitive exam center for the overall development of students.

# Library



The Library supports the learning needs of a diverse student population, the instructional needs of the faculty, and the information needs of the college community. It is equipped with reference books and successive books on various topics. Apart from this, many journals related to various topics regularly visit the library. Various magazines are available in the library for supplementary reading of the students. the assistance of a Earn and Learn Students with the help of a Library Advisory Committee.



## Laboratories



Total area of Science Lab is 748 Sq feet and another Separate two laboratories for Undergraduate courses. Both are equipped with all the necessary and modern equipments. The laboratories were supply with LPG with Separate Gas storage for safety purpose.



## Botanical Garden



The word 'Botany' owes its origin from the greek words 'bous (meaning cattle), 'bouskein' (making food for cattle i.e. fodder) or 'botane' (meaning herb or plant). Hence botany in general is the study of herbs plants. Botany covers a wide range of scientific disciplines that study plants, algae, including: structure, growth, reproduction, metabolism, development, diseases, and chemical properties and evolutionary relationships between the different groups.

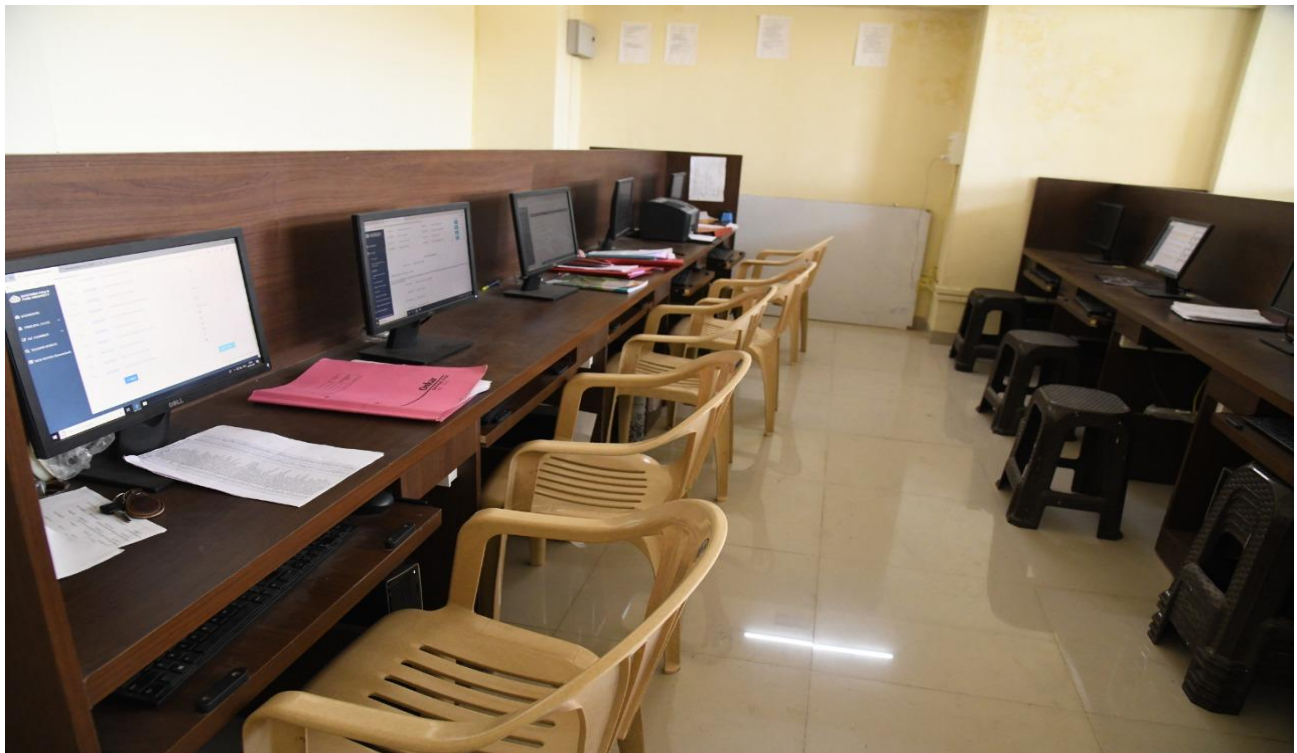


Botanical Garden

## Computer Lab



There is bright career prospects for computer science professionals, with the opening of huge Information communication Technology industries in India, the job opportunities have increased considerably. A career in computer science has been proved lucrative and rewarding since last decades. The individual, who studies computer science not only learns the software aspect of the computer but also learns the knowledge of Operating system, Programming languages, database, Statistics, Mathematics, Reasoning skills and Electronics. Future opportunities in computing are without boundaries. This field is evergreen and many more developments are still to come. The digital age needs computer scientists.



**Computer Lab**

## Seminar Hall



Our spacious Seminar is of 58\*20 feet area. It has capacity of 200 seats. College organizes various Programs and activities in the seminar hall.



## Parking Facility



## Parking Place

Our spacious parking shade is of 100X25 feet area. Separate parking is available for staff and students.

## **CONCEPT OF ENVIRONMENTAL AUDIT**

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

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

The European Commission, in its proposed regulation on environmental auditing, has also adopted the ICC definition of Environmental Audit. However, the outcome of Green Audit should be established with concrete evidence that the measures undertaken and facilities in the college under green auditing lead to the reduction of Carbon Footprint, which has been historically defined as the total set of greenhouse gas emissions caused by an individual, event or organization and expressed as 'carbon dioxide equivalent'.

### **OBJECTIVES:**

The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.



**The main objectives of carrying out Green Audit are:**

- To introduce and aware students to real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use on the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
- To bring out a status report on environmental compliance
- To maintain and conserve the greenery in the college campus.
- To aware students and local people about the environmental conservation.
- To manage solid, liquid and e-waste of college campus.
- To aware the students and local people to reduce water pollution.
- To aware the students and local people for water conservation.
- To create a healthier, tobacco and smoking free campus.
- To make the efforts for maintaining paperless office.
- To make the efforts for maintaining plastic free campus.
- To produce bio-fertilizers with the help of vermicomposting unit to complete green audit of the college campus.

## **Environment Conservation Committee:**

**Table No.1 Environment Conservation Committee: -**

<b>Sr. No.</b>	<b>Name of the Teacher</b>	<b>Designation</b>	<b>Post</b>
1	Dr.A.K.Pandarkar	Principal	Chairman
2	Dr.S.B.Dahatonde	Assistant Professor	IQAC-Co-ordinator
3	Prof.P.A.Phatangare	Assistant Professor	Member
4	Dr.K.R.Pisal	Assistant Professor	Member
5	Prof.S.A.Bankar	Assistant Professor	Member
6	Prof. V.S.Pawar	Assistant Professor	Member
7	Prof.R.S.Thorat	Assistant Professor	Member

### **• Function of Environment Conservation Committee:**

Environment Conservation Committee focusing on following points

1. Educate: Help people to understand the importance and value of our natural resources
2. Reduce, Reuse, recycle: Cut down on what you throw away
3. Buy less plastic and bring reusable bags in campus
4. Use of nontoxic chemicals in campus
5. Use of energy efficient light bulbs
6. Conserve water: less water we use, less waste water will generate
7. Volunteer for cleanup in campus
8. Use of bicycle and E-Vehicle in campus
9. Plantation of trees.

- College Profile: Statistical Data
- Student Profile: Department Wise Student Strength

Sr. No.	Faculty	Class	No. of student
1	Arts	FY	82
		SY	37
		TY	45
		<b>Total</b>	<b>164</b>
2	Commerce	FY	80
		SY	65
		TY	62
		<b>Total</b>	<b>207</b>
3	Science	FY	67
		SY	55
		TY	61
		<b>Total</b>	<b>183</b>
4	Computer Department	F.Y.B.SC	39
		S.Y.B.SC	13
		T.Y.B.SC	31
			<b>83</b>
		<b>All Total</b>	<b>637</b>

**Table 2: Class wise student strength**

### **Faculty Profile: Department Wise Faculty Strength**

<b>Sr. No.</b>	<b>Faculty</b>	<b>No. of Faculty</b>
<b>1.</b>	<b>Science Department</b>	<b>10</b>
<b>2</b>	<b>Commerce Department</b>	<b>02</b>
<b>3</b>	<b>Arts Department</b>	<b>13</b>
<b>4</b>	<b>Library Department</b>	<b>01</b>
<b>5</b>	<b>Non -Teaching</b>	<b>05</b>
	<b>Total</b>	<b>31</b>

**Table No.3 Total number of teaching and non-teaching staff**

### **ENVIRONMENT POLICY: -**

The balanced existence of environment is the secured basis of life. Its conservation is an indispensable aspect of education. The preservation of every natural object is the prime duty of human. Future Technologies should emphasize the dependence between technology and nature. The Technology based product should be Eco Friendly. Proper Environment Management is essential for sustainable development and the Environment Policy is designed in tune with the United Nation's Sustainable Development Goals 2030, realizing that protection of Environment is part of the Institution at social Responsibility for the survival of humanity. This document through the policy Statement makes clear the Institution's approach to Environment protection which will be ensured through the increment greenery with plantation not only in the campus but also beyond the campus through various activities. Environment Audit which is defined by the ICC as a tool shows how any institution is performing for to achieve the aim of safeguarding the environment and natural resources" in the functioning and dissemination of Knowledge. Besides initiatives for Environment Protection, the Environment Policy includes Energy Management, Waste Management and Water Management which are dealt with

separately taking into account the importance of each, and policies and procedures have been formulated for these topics.

### **Policy statement**

Marutraoji Ghule Patil Arts, Commerce & Science College avows to protect the Environment by maintaining a Green, Eco-friendly campus, creating an awareness among its stakeholders and will do the various environment promotional activities beyond the campus. so as to contribute to making the earth, our common home, a sure haven and a comfortable dwelling for the posterity.

### **Objectives**

- Promoting & Bench-marking for environmental protection initiatives
- To encourage projects on environmental assessment
- To impart awareness about green clean campus
- To initiate sustainability practices in the campus and among stakeholders
- To maintain and monitor the sustainability and Eco Friendly initiatives
- Reduction in resource use
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Developing an environmental ethic and value systems in youth
- Conduct audits for recommendations and continuous improvement
- Teach sustainable development across all disciplines of students.
- Encourage research and dissemination of sustainable development knowledge,
- Green campuses and support local sustainability efforts,
- Engage and share information with community.
- Introduce carbon neutrality measures

### **Procedure**

The Botanical Garden committee and campus development committee perform key role in promoting environmental activities. Then it is duty of all stakeholder's regarding to maintain and sustain the environmental balance in the campus. The NSS unit will do the best efforts for environmental promotional activities beyond the campus.

## **Roles**

- Environment Protection and awareness
- Environment Policy to be implemented in the Campus.
- Internal inspection system should be developed for various equipment's available in campus.
- Waste Management plan should be prepared for the campus.
- Plastic usage can be reduced in college campus.
- Implement measures for carbon neutrality.
- TO Communicate the Environment Policy to all faculties members and staff.
- The students and faculty should follow on nature friendly pursuits and sustainable awareness.
- Increase in Environmental promotional activities for spreading awareness in the campus

## **Action plan**

1. To celebrate and to understand importance world environment day,
2. To Conduct awareness campaign on pollution
3. Conduct regular green/environment audit and follow up corrective measures
4. Ensure regular follow up and updates for clean campus practices like proper waste disposal, e-waste campaigning among stakeholders, rain water harvesting and monitoring judicious water usage
5. Activities encouraging recycling, reuse, repair and refurbishing etc.
6. Conduct invited talk (dept./college level on various updates policies and various dimensions of environment studies)

## **WATER MANAGEMENT POLICY**

Water is the fundamental requirement of life. It touches all life activities such as agriculture, domestic and all socio-economic activities. The water management policy of institution includes all the water related field activities.

### **Objectives**

- To provide adequate water supplies to meet demands of the campus.
- To provide clean, safe, reliable drinking water at all times.
- To provide for groundwater recharge while protecting groundwater resources from overdraft
- To protect the groundwater resources from contamination
- To control excessive erosion and manage sedimentation/ situation
- TO minimize wastage of water & maximize water use.
- The college building is to be used for rain water harvesting.
- To create awareness of effective water conservation projects among students.
- Organize various programmes under the leadership of NSS unit in the nearest villages regarding water conservation. .
  - Educate and increase awareness regarding the importance of water to use & the need for conservation the leadership of various clubs.
- To undertake activities to sensitize people about Climate change.
- To enhance monitoring network and information sharing to support proper management of watersheds through community outreach.
- Increase water resources related recreational opportunities

### **Procedure**

The water is called elixir for life. It is an integral part of ecosystem. Conservation and proper utilization of water will prove beneficial not only for the present era but also future. The college campus has bore well for supply of water. But since last two years ground water level found decline. So the college has started rain water harvesting. For this The college building has selected for rain water harvesting structure. For the collection of rain water college has built huge underground water tank. The rain water

which falling on the terrace of the building is systematically collected through pipeline into the water tank. Utilization- the systematically collected water from rainwater harvesting used for botanical garden, trees, plants which planted in the college campus and also used to recharge the bore well.

### **Water harvesting**

Rain water harvesting at the college building. (Roof Area- 1304.95sq.mts) Stored water used to recharge the bore well. A team is formed to create and implement the water management policy in the MGPC campus. The team should visually inspect all the water conservation system in the campus periodically. This team ensures primarily on the regular monitoring of quality of drinking water, maintenance of water distribution system and effective utilization of the waste water.



## **ENERGY POLICY**

Preamble Energy is now a vital part of everyday life. As per the Environment Policy 2020 of UGC, that sets long-term goals for educational institutes to conserve natural environment, develop sustainable solutions and control energy consumption, an educational institution has to evolve programs and policies that turns the institute into a carbon-negative institute and promote in educating students and employees on environmental concerns and sustainability, be responsive to the emerging challenges in the Energy sector and Sustainable development of the State and Country. So, it is essential for the educational community to practice sustainable energy that will provide favourable effect on the eco-system. The Energy Policy of the Institution will thus be effective in organizing structured programs to promote awareness on the proper management and conservation of energy those models resource efficient and low-carbon campuses that demonstrate practice for sustainability.

### **Features in the Campus:**

1. MSEB Electricity connection
2. Solar Street Lamp installed in the campus
3. Generator Backup (Diesel)
4. Power Backup – UPS Battery for administrative office
5. LED Light fixtures.
6. Effective peak load management
7. Repair, Re-use and frequent maintenance of equipment to ensure sustainable longevity.
8. Effective maintenances through annual maintenance

### **Energy Policy Statement**

The energy policy articulates commitment of the Institution to the conservation of energy by defining energy management protocol for electrical energy systems of the institution, focusing on sustainable practices of Energy Conservation and maintaining an eco-friendly green campus.

## **Objectives**

- Utilize energy resources efficiently by introducing innovative technologies
- Use of renewable energy.
- Optimize the Energy consumption and cost.
- Reduce, Reuse and Recycle.
- Carry out regular internal energy audits to identify energy conservation opportunities.
- Regular monitoring and follow up procedures managed by the Institution Energy Audit for effective implementation at department levels.
- To train faculty, non-teaching staff and students to make the Institute a role model in the area of Energy conservation.
- Promote awareness related with Energy conservation among various sections of society.

## **Action Plan Energy Optimization Plan**

1. Regular Monitoring and benchmarking resource use and waste generation.
2. Monitor and evaluate the energy performance levels
3. Setting short -term and long-term targets and conservation strategies, to achieve and surpass goals for zero-carbon Campus.
4. Use of energy efficient, star labelled equipment.
5. Periodic maintenance and replacement of other lights/lighting fixtures to LED.
6. Maintaining a sustainable approach by use of existing equipment efficiently till its life cycle ends, and replacing with more efficient equipment when necessary.
7. Maximum use of Daylight for Indoor illumination and natural ventilation.
8. Maximize use of Renewable Energy – Grid Interactive Solar PV System installed in the Campus.
9. Encourage students to undertake Energy Management, Energy optimization techniques, Renewable Energy Harvesting thereby promoting a sense of awareness towards Energy use and its cost.

**LIST OF FACULTY**

<b>Sr. No</b>	<b>Faculty</b>	<b>Name of the Teacher</b>
1	<b>Science</b>	Dr.A.K.Pandarkar (Principal)
		Asst.Prof.P.L.Gawade
		Asst.Prof. S.A.Bankar
		Asst.Prof.K.B.Thorat
		Asst.Prof. I.C. Godhade
		Asst.Prof. R.S.Thorat
		Asst.Prof.V.V.Khatik
		Asst.Prof. V.S.Pawar
		Asst.Prof.P.R. Kiladkar
		Asst.Prof. P.B. Lande
		Asst.Prof.F.B.Khan
2	<b>Computer Science</b>	Asst.Prof.H.S.Sayyad
		Asst.Prof. S.A. Shaikh
		Asst.Prof. D.R. Jawale
3	<b>Arts</b>	Dr. K.R.Pisal
		Dr.R.A.Netake
		Dr.S.B. Dahatonde
		Asst.Prof. S.V. Markad
		Asst.Prof. G.S.Sonawane
		Asst.Prof. A.R. Paulbudhe
		Asst. Prof U.B. Gujar
		Asst.Prof. P.A.Phatangare
		Asst.Prof. K.R.Dinkar
		Asst. Prof. P.N.Kharad
4	<b>Commerce</b>	Asst.Prof P.P. Nalwade.
		Asst.Prof. S.R. Choudhari
		Asst.Prof. T.S. Munot.

## ACTIVITIES OF GREEN AUDITING

### PLANTATION:-

To create Environmental awareness at the college campus we organize plantation program with all the staffs and students of our college. We try to plant more trees. To keep the greeneries in the campus we maintain the garden by paid staff under the guidance of garden committee members.

To create- green cover, eco-friendly atmosphere, pure oxygen at the college campus, plantation program is organized every year with involving all students, principal, and all departments faculty members. In this session Plantation program was organized and about 100 ornamental, medicinal plant with rare and exotic beautiful trees was planted in botanical garden and other parts of college campus. To keep the greeneries in the campus, we regularly maintain the gardens which are looked after by paid staff under the guidance of garden committee members. Moreover, every year we try to plant new trees. Seasonal flower garden is also a unique feature of this college.



Plantation program done with the staffs and students under activities of green auditing

There are so many plants are present in our college campus categorized below-

**Floristic Diversity in College Campus: -**

<b>Sr. No</b>	<b>Common Name</b>	<b>Botanical Name</b>	<b>Family</b>	<b>No.of Plants</b>
1	Mango	<i>Mangifera Indica</i>	Anacardiaceae	01
2	papaya	<i>Carica papaya</i>	Caricaceae	01
3	Sugarcane	<i>Saccharum Officinarum</i>	Poaceae	01
4	Tulsi	<i>Ocimum sanctum</i>	Laminaceae	01
5	Guava	<i>Psidium guajava</i>	Myrtaceae	01
6	zendu	<i>Tagetus patula</i>	Asteraceae	01
7	alovera	<i>Barbedensis miller</i>	Liliaceae	01
8	chafa	<i>Plumeria alba</i>	Apocynaceae	01
9	Neem	<i>Azardicta indica</i>	Meliuaceae	01
10	Cardboard plant	<i>Zamia furfaracia</i>	Zamiaceae	01
11	palm	<i>Hyphaene peterciana</i>	Arecaceae	01
12	Ashoka	<i>Polialtia longifolia</i>	Fabiaceae	01
13	Morpankhi	<i>Thuja Occidentalis</i>	Cupressaceae	01
14	Gulmohar Tree	<i>Delonix regia</i>	Leguminosae	01
15	Badam	<i>Terminalia cattapa</i>	Prunoideae	10
16	tamarind	<i>Tamaridus Indica</i>	<i>Leguminaceae</i>	02
17	Lemon	<i>Citrus lemon</i>	Rutaceae	02
18	bamboo	<i>Bambusa vulgaris</i>	Arecaceae	01
19	Cycus	<i>Cycus revoluta</i>	Cycadaceae	01
20	Amla	<i>Phyllanthus emblica</i>	Phyllanthaceae	02
21	Bottle brush	<i>Callestimon citrius</i>	Myrtaceae	01
22	Sag	<i>Tectona grandis</i>	Lamiaceae	01

23	Nilgiri	<i>Eucalyptus globulus</i>	Myrtaceae	01
24	Peepal tree	<i>Ficus religiosa</i>	Moraceae	01
25	Coconut	<i>Coccus Nucifera</i>	Arecaceae	01
26	Palas	<i>Butea monosperma</i>	Fabiaceae	01
27	Kanher	<i>Nerium oleander</i>	Apocynaceae	01
28	suru	<i>Casuarina equisetifolia</i>	Casuarinaceae	01
29	shirish	<i>Albizia lebbek</i>	Fabiaceae	01
30	shatawari	<i>Asparagus racemosus</i>	Liliaceae	01
31	Ficus	<i>Ficus benamina</i>	Ficaceae	01
32	Rubber Plant	<i>Ficus Elastica</i>	Mulberry	01
33	Peregrina	<i>Jatropha integerrima</i>	Euphorbiceae	01
34	nagchampa	<i>Plumeria pudica</i>	Apocynaceae	01
35	Snake plant	<i>Dracaena trifasciata</i>	Rosaceae	01
36	cherry	<i>Muntingia calabura</i>	Asparagaceae	01
37	Errandplant	<i>Ricinus Communis</i>	Euphorbiceae	01
38	Sapataparni	<i>Alstonia scholaris</i>	Apocynaceae	01
39	Ratrani	<i>Cestrum nocturnum</i>	Solanaceae	01
40	karanji	<i>Milletia pinnata</i>	fabaceae	01
41	sadaphuli	<i>Catharanthus roseus</i>	Apocynaceae	01
42	panphuti	<i>Bryophyllum pinnatum</i>	Crassulaceae	01
43	Lajalu plant	<i>Mimosa pudica</i>	fabaceae	01
44	croton	<i>Codiaeum variegatum</i>	Crotonaceae	01
45	tecoma	<i>Tecoma stans</i>	Bigniaceae	01
46	kevada	<i>Pandanus odorifer</i>	Pandanaceae	01
47	jaswand	<i>Rosa sinensia</i>	Malvaceae	01
48	Gulab	<i>Rosa indica</i>	Rosaceae	01
49	Black afra	<i>Terminalia arjuna</i>	Didiereaceae	01

50	lili	<i>Lilium longiflorum</i>	Liliaceae	01
51	Gauri phule	<i>Terminalia balsamina</i>	Balsaminaceae	01
52	Adulsa	<i>Adhatoda vasica</i>	Acanthaceae	01
53	Spider plant	<i>Chlorophytum comosum</i>	Asparagaceae	01
54	Spurges	<i>Pedilanthus tithymaloides</i>	Euphorbiaceae	01
55	Geranium	<i>Ixora coccinea</i>	Rubiaceae	01
56	Blue Morning glory	<i>Ipomoea schomburgkii</i>	Convolvulaceae	01
57	Wood apple	<i>Limonia acidissima</i>	Rutaceae	01
58	Grass	<i>Cymbogan nardus</i>	Poaceae	01
59	Indian bael	<i>Aegle marmelos</i>	Rutaceae	01
60	X-Tree	<i>Araucaria colomnaris</i>	Araucariaceae	01
61	Java Plum	<i>Syzygium cumini</i>	Myrtaceae	01
62	Cluster fig	<i>Ficus racemosa</i>	Mulberry	01
63	Wood apple	<i>Limonia acidissima</i>	Rutaceae	01
64	kadamb	<i>Neolamarckia cadamba</i>	Rubiaceae	01
66	Euphorbia	<i>Euphorbia milli</i>	Euphorbiceae	01
67	Parijatak	<i>Nyktanthes orbur-tristis</i>	Oliaceae	01
68	Nerium	<i>Oleander</i>	Apocynaceae	01
69	Ajwain	<i>Trachispermum ammi</i>	Apiaceae	01
70	Areca palm	<i>Dypsis lutescens</i>	Arecaceae	01

### Quantitative Measurements: -

Sr.No	Derails of Plant species	No of plant species
1	Flowering plant species	09
2	Medicinal species	11
3	Non-flowering plant species	40
4	Indigenous species	10
5	Planted vegetation (shrubs,herbs,climbers,trees)	40

### Importance of Biodiversity Conservation

The campus should be a mini biodiversity conservation area, wherein, more greenery due to native plant species, medicinal plant garden, concept gardens, flowering plants that attract bees, birds, beetles and other animals like squirrels should be monitored as ecosystems. Shade giving trees in the paths, flowering trees in the avenues and fruit trees at the back yards also would attract birds, bees, butterflies and squirrels. Maintaining small ponds/open water sources and reservoirs will attract these small harmless animals to the campus. Marutraoji Ghule Patil Art's, Commerce and Science, College campus is free of exotic plants that cause threat to the natural vegetation. It is like a mini bio-reserve rich in native species and endemic plants. A complete data on the soil type, water holding capacity and soil nutrition in the campus is being thoroughly studied internally or with the Government agriculture departments. It is useful for cultivation of various native and wild plant species and also helps in choosing the proper irrigation system.



## **Recommendations for Greening**

- The name board may be kept in each plant species in which the common name along with binomial name may be mentioned. The year of planting and economic importance with medicinal values if any may be mentioned in some plants so that the oldest as well as useful herbal plants may be identified in the campus.
- A complete data on the soil parameters such as pH, electrical conductivity, water holding capacity, total organic carbon, available nitrogen, exchangeable potassium, available phosphorus in the campus may be studied which may be useful for the cultivation of various native and wild type plant species.
- A complete data on the water quality parameters such as pH, TSS, BOD, COD, dissolved oxygen and dissolved carbon dioxide and macro and micro elements like iron, nickel, chromium, ferric and ferrous ion concentrations may be studied for which bore well, open well, corporations, municipal RO, Aqua guard, Millipore. Distilled water rain water and may be used. It may be analysed which may be useful for the plant growth as well as to the stakeholders.
- Vermicompost production may be increased substantially using tree leaf litter, kitchen wastes and biodegradable waste materials available in the campus. The vermicompost manure can be used for plant cultivation and the excess amount of vermicompost may be sold in the local market as consultation work.
- The matured trees may be subjected to do white wash upto 3 feet height with limestone and neem oil mix to prevent the pests and diseases attack.
  - Automatic water irrigation systems like drip and sprinkler irrigation methods adopted may be extended in the entire green area of the campus which in turn are useful to reduce the operation costs under energy conservation policy.
  - It is recommended to develop 'Purchase Policy' for not allowing the non-degradable plastic covers during the paking of goods with respect to nature conservation and environmental protection.

- The Management has to take smart initiatives towards creating a Green campus in the areas of green computing and waste management. The desktop infrastructure is virtualized through VMW or virtualization technology.

### **OUR GREEN CAMPUS**



**College pathway**



**College Campus at glance**

## **METHODOLOGY: -**

Methodology in order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations.

The study covered the following areas to summarise the present status of environment management in the campus:

- Water management
- Energy Conservation
- Waste management
- E-waste management
- Green area management
- Human Health and Safety

## **WATER MANAGEMENT: -**

### **Observations and Recommendations: -**

Water Use This indicator addresses water consumption, water sources, irrigation, storm water, appliances and fixtures. A water audit is an on-site survey and assessment to determine the water use and hence improving the efficiency of its use.

#### **a) Observations: -**

The study observed that College get water through Ahmednagar Municipal Corporation, are the major source of water. The storage of all water underground water tank situated near college gate. Water is used for drinking purpose, toilets, laboratory and gardening. During the survey, no loss of water is observed, neither by any leakages, nor by over flow of water from overhead tanks. The data collected from all the departments is examined and verified. On an average the total use of water in the college is 15,000 L/day. Which include 6,000 L/day for domestic purposes, 6,000 L/day for gardening and 3000 L/day for different laboratories.

### **USES AND MANAGEMENT**

#### **SOURCE OF WATER**

<b>Sr.No</b>	<b>Resource</b>	<b>Quantity</b>
<b>1</b>	PWD (water supply)	<b>01</b>
<b>2</b>	No. of Bore-well	<b>01</b>
<b>3</b>	Water reserve tank	<b>01</b>

#### **QUANTITY OF WATER USED IN DIFFERENT SECTIONS OF THE CAMPUS**

<b>Sr.No</b>	<b>Sections</b>	<b>Water Use (Litter/day)</b>
<b>1</b>	Domestic Purpose	2000 lit
<b>2</b>	Laboratories	3000 lit
<b>3</b>	Garden	1500lit
<b>4</b>	Drinking	2000 lit
<b>5</b>	Urinals and Toilets	1500 lit
	<b>Total</b>	<b>10,000 lit</b>

## **RAIN WATER HARVESTING**

The entire roof top areas of the buildings have facility to collect rainwater. Collected water is deposited into pit and allowed to percolate in the underground by scientific way which ultimately increases water level.

Rainwater harvesting system is a traditional old practice not only in drought prone areas but also in areas having seasonal rainfall. The Indian traditional rainwater harvesting is being practiced in various part of the country to improve the ground water status. Now the threatening features of the lower ground level of water has created a revamp of newly featured rainwater harvesting systems. Indian traditional rainwater harvesting system are constructed based on three modes either direct pumped, indirect pumped, or by gravity alone in the campus. In addition, lakes, ponds, water channels, and any other water reservoir methods are considered as the rainwater harvesting system. The green campus should have adopted any of the above said modes of rainwater harvesting or any new methods that has the benefit of conserving the water resource as well. A small square shaped pit containing gravels and sands may be constructed near the building in which rainwater will be harvested from the roof of the building using a pipe. During the audit there are two well developed rainwater harvesting systems such as pond and water channels connected with a square shaped pit observed with Marutraoji Ghule Patil Art's, Commerce and Science College, Nagapur, Ahmednagar .



**Rainwater Deposited Pipe**



**Rainwater Deposited Pit**

**Recommendation: -**

1. Gardens are watered by using drip irrigation system to save water. This is one of the unique steps towards greening practices.
2. Need of monitoring, controlling overflow is essential and periodically supervision drills should be arranged.
3. in campus small scale/medium scale/ large scale reuse and recycle of water system is necessary.
4. Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment.



## **ENERGY USE AND CONSERVATION: -**

Energy Use and Conservation, this indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliance, natural gas and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

### **a) Observations: -**

Energy source utilized by all the departments and common facility center is Electricity only. Total energy consumption is determined as 4000 KWH/Year by major energy consuming equipment's. All the departments and common facility centers are equipped with CFL lamps. Approximately 04 LED Bulb (Capacity) are counted during survey. Equipment's like Computers are used with power saving mode. Also, campus administration runs switch –off drill on regular basis. The college is aware about energy conservation and taking effort to save energy.



Installation of Solar Lamp in College Campus

### **b) Recommendations: -**

- Installation of Photovoltaic Cell.
- Installation of LED lamps instead of CFL.
- Support renewable and carbon-neutral electricity options on any energy purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.
- Appreciate that it is preferable to purchase electricity from a company that invests in new sources of renewable and carbon-neutral electricity.
- Instead of out-sourcing the Annual Maintenance of Electrical Equipment college concern Department staff shall take that responsibility.
  - Energy saving awareness shall be done by displaying the boards at appropriate place
  - Encourage natural ventilation and illumination by alteration in the building structures whenever going for new constructions.

- **Ventilated classrooms:**

The college has designed the classes to be full of ventilation and spacious so that students do not face any difficulty for their regular lectures.



- **Waste Management: -**

- This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc. and recycling. Furthermore, solid waste often includes wasted material resources that could otherwise be channelled into better service through recycling, repair, and reuse. Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus.

- **Observations: Solid waste Management**

To reduce the problem of the waste; college has kept in the campus at necessary places disposal dust bins. Waste is collected everyday once in the evening. It is then processed on the basis of the nature of the waste. The total solid waste collected in the campus is 2000 Kg/Year. Waste generation from tree droppings and lawn management is a major solid waste generated in the campus. The waste is segregated at source by providing separate dustbins for Bio-degradable and Plastic waste. Segregation of chemical waste generated in chemistry and Environmental laboratories is also practiced. Single sided used papers reused for writing and printing in all departments.





**Table No.8 Category wise solid waste generated (kg/year)**

Sr. No	Section	Category of waste(kg)		Total Solid Waste(kg)
		Dry waste	Wet Waste	
1	Science	500	800	1300
2	Arts	200	100	300
3	Commerce	300	100	400
				<b>2000 kg/year</b>

vermicompost is produced from the garden waste and plant matter which are scattered in the campus. This compost is used as manure for plants. The Vermicompost is able to fulfil the need of fertilizers. This Vermicompost project is very useful for the college garden. Vermicomposting is the product of composting process using a species of worms. The worms are used to create a mixture of decomposing Paper, vegetable or food waste, bedding material and vermicast. For the process of vermicomposting organic waste, dry leaf of the plants, grass, kitchen waste from the college canteen and other waste are collected from different places of the campus. After the complete process of vermicomposting over a certain period are ready to harvest and then the produced bio-fertilizer used for the plants on the campus. This vermicomposting plant developed by science faculty to strengthen the eco-friendly environment in the college premises.



**Vermi-compost Pit**

### **Liquid waste Generation and Management:**

The hazardous chemicals are used in low proportion and carefully; to conduct the practical in the laboratory. The waste drained after reasonable treatment. An attempt is made to dilute the liquid waste while draining them. A certain waste is disposed by burning them.

#### **1) Toxic Waste Chemicals Generation (per year)**

Toxic waste chemical generation generally happened in environmental laboratory & chemical laboratory of main building.

<b>Section</b>	<b>chemical laboratory</b>	<b>Total waste Consumption (liter)</b>
Generation of Toxic waste	100 liter	200 liter

**Toxic Waste Chemicals Generation (per year)**



**Liquid Waste Soak Pit**

**Recommendation:**

1. Important and confidential reports/ papers are sent for pulping and recycling after completion of their preservation period.
2. Very less plastic waste (0.1Kg/day) is generated by some departments, office, garden etc. but it is neither categorized at point source nor sent for recycling.
3. Metal waste and wooden waste is stored and given to authorized scrap agents for further processing. Few glass bottles are reused in the laboratories.
4. The food waste from main canteen and mess is used or sent for vermicomposting.

**E-WASTE GENERATION: -**

E-waste can be described as consumer and business electronic equipment that is near or at the end of its useful life. This makes up about 5% of all municipal solid waste worldwide but is much more hazardous than other waste because electronic components contain cadmium, lead, mercury, and Polychlorinated biphenyls (PCBs) that can damage human health and the environment. E-waste referred as discarded electrical or electronic devices. Rapid expansion of technology and addiction of society to it result in creation of a very large amount of e- waste. Electronic component like CPUs contains lead, cadmium, beryllium which is harmful to living things.

**Observations:**

As Per our observation the institute started in 2003, E-waste generated in the campus is very less in quantity. The E- waste and defective item from computer laboratory is being stored properly-waste like keyboard, mouse, toner drum, compact discs, LAN cable, CPU cell given to e-waste consultant for recycling.

**Recommendation: -**

1. Use reusable resources and containers and avoid unnecessary packaging where possible.
2. Always purchase recycled resources where these are both suitable and available.
3. E-waste management and disposal facility in order to dispose E-waste in scientific manner.

## **GREEN AREA MANAGEMENT: -**

This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards This also helps in ensuring that the Environmental Policy is enacted, enforced and reviewed using various environmental awareness programmes.

**a) Observations: -**Campus is located in the vicinity of approximately 13 types (species) trees. Various tree plantation programs are being organized during the month of July and August at college campus. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species.

## **Green area of the college: -**



Plantation Programme done on the occasion of World Environment Day





GPS Map Camera

BOLHEGAON  
SUBURBAN  
Google

**अहमदनगर, महाराष्ट्र, भारत**  
 4PJ7+JFW, near RAGHVENDRA SWAMI MANDIR, बोल्हेगओं सबर्बन,  
 अहमदनगर, महाराष्ट्र 414111, भारत  
 Lat 19.131727°  
 Long 74.713839°  
 05/06/22 09:18 AM

जनसेवा कॉम्प्युटर  
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ग्रामीण जनतेचा आवाज  
**जल भूमी**

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**पर्यावरण संरक्षण हेतूने समाजातील सर्व घटकांचे योगदान गरजेचे – प्राचार्य डॉ. पंढरकर अहमदनगर घुले पाटील महाविद्यालयात पर्यावरण दिन वृक्षलागवडीने साजरा**

**जल, भूमी** नगर : प्रतिनिधी  
 कोविड-१९ च्या काळात आपल्याला अस्मिन्नचे महत्त्व समजले आहे. तरीही पर्यावरणाचा हास आपण करित आहोत. पर्यावरणाचा समतोल राखणे आवश्यक आहे. त्यासाठी केवळ वृक्षलागवड करून चालणार नाही तर त्याची संवर्धन करणे आवश्यक आहे. यासाठी विद्यार्थ्यांना बरोबरचे समाजातील सर्व घटकांचे योगदान गरजेचे असल्याचे प्रतिपादन अहमदनगर घुले महाविद्यालयाचे प्राचार्य डॉ. ए.के. पंढरकर यांनी केले. अहमदनगर येथील मानकरावजी घुले पाटील महाविद्यालयात राष्ट्रीय सेवा योजना व भूगोल विभागाच्यावतीने ५ जून जागतिक पर्यावरण दिन साजरा करण्यात आला. या कार्यक्रमास प्रमुख पाहुणे म्हणून अहमदनगर कॉलेज, अहमदनगर भूगोल विभाग प्रा. डॉ. शरद बोरुडे इ.टी.आय. समन्वयक महाराष्ट्र राज्य, तसेच प्रा. डॉ. अशोक घोषपंडे राष्ट्रीय सेवा योजना अहमदनगर जिल्हा समन्वयक हे उपस्थित होते. कार्यक्रमाच्या

अध्यक्षस्थानी प्राचार्य डॉ. ए.के. पंढरकर होते. याप्रसंगी डॉ. शरद बोरुडे म्हणाले की, पर्यावरणाच्या न्हामामुळे पाणी प्रदूषण, महापूर, त्सुनामी, दुष्काळ अशा अनेक संकटांना आपणास सामोरे जावे लागत आहे. निरर्गांचा न्हास झाल्यास मनुष्य जातीचा नाश होईल. याचा प्रत्येक सुजाण नागरिकांनी विचार करणे आवश्यक आहे. त्यासाठी विद्यार्थ्यांनी पर्यावरणाचे महत्त्व पटवून देणे हे सर्वांत मोठे काम आहे. यावेळी प्रा. डॉ. अशोक घोषपंडे, प्रा. डॉ. शरद बोरुडे, प्राचार्य डॉ. ए.के. पंढरकर यांच्या उपस्थितीत महाविद्यालय परिसरात वृक्षारोपण करण्यात आले. या कार्यक्रमात प्रा. अशोक घोषपंडे राष्ट्रीय सेवा योजना विद्यार्थ्यांचे वर्षभर केलेल्या कामाबद्दल कौतुक करून मार्गदर्शन केले. तसेच भायगी राख, ऑकार वारे, रुबिणी उजळमुराले यांनी मनोगते व्यक्त केली. या कार्यक्रमात राष्ट्रीय सेवा योजना योजनेतील उत्कृष्ट स्वयंसेवक विद्यार्थ्यांचा मान्यवरांच्या



हत्ते प्रमाणपत्र देऊन सत्कार करण्यात आला. कार्यक्रमाचे प्रास्ताविक राष्ट्रीय सेवा योजनेचे कार्यक्रम अधिकारी डॉ. के. आर. पिसाळ यांनी केले. कार्यक्रमास उपस्थितांचे आधार विद्यार्थी विकास मंडळ कार्यक्रम अधिकारी प्रा. एम. एल. कराळे यांनी मानले. कार्यक्रम यशस्वीतेसाठी कला शाखा प्रमुख प्रा. एस. व्ही. मरकड, प्रा. ए.के. आहेर, परीक्षा विभाग प्रमुख प्रा. पी. ए. फटांगरे, प्रा. जी. एस. सोनवणे, प्रा. शुभांगी बनकर, कृत्तिक ताकपिरे, वारे ऑकार, दरेकर तितेश, टोंबरे उमेश, भाकरे स्वप्नील, कांबडे चैतन्य, जाधव रोहन, अमाले महेश, पवार अधिनी, धोत्रे समुंद्री, मैड मायडी, धोंगडे वैष्णवी, आदी सर्वांनी सहकार्य केले. या कार्यक्रमास महाविद्यालयीन विद्यार्थी मोठ्या संख्येने विद्यार्थी उपस्थित होते.

**Types of trees planted which are environment friendly are enlisted below:**

Neem, Tree, Mango, Jack Fruit, Teak, Guava, Almond, Cashew, Exotic Flora, Asoka.

**RECOMMENDATIONS**

The Management of College may consider on top priority that

- Total 33% area is to be reserved for plantation
- The Biodiversity is to be maintained while considering the plantation in future
- The selection of trees species to be based on environmental conservation and carbon sequestration value
- Artificial nests and water ponds are recommended to attract different birds in their migrating and breeding season Watering schedule to be planned according the season
- Drip irrigation is strongly recommended to conserve the water
- Reuse of the water shall be done instead of use of fresh water
- Special Tree Plantation shall be celebrated every year on environment day and also competitions



**Green Campus**

## **HUMAN HEALTH AND SAFETY**

The college takes various initiatives to ensure that the college is very sensitive to the health and safety of students. The activities are as below:

### **Celebration of Yoga Day: -**

The NSS unit of Arts, Science and commerce college, Burhannagar, Ahmednagar organized the event, Yoga Day celebration on 21th of June 2022 in the Yoga and Meditation Hall with Students and invited guest are, Sagar shinde Yoga Expert with all students of College. Students discussed on Yoga in present scenario, they performed some Yogasanas on the occasion. The guest of the event Sagar Shinde explained the importance of Yoga in our day-to-day life. Yoga contributes to a special aspect of our healthiness which is spiritual health and thus, it leads to mental peace.

### **Celebration of Yoga Day**



# शारीरिक व मानसिक स्वाथ्यासाठी व्यायाम हवा: डॉ. मगर

**एरंडगाव :** आपण पूर्वीपासून 'आरोग्यम् धन संपदा' हा मूलमंत्र ऐकत आलो आहोत. शरीर तंदुरुस्त असेल तरच मन तंदुरुस्त राहते; परंतु सध्या धावपळीच्या जीवनात शरीराकडे पुरेशा प्रमाणात लक्ष दिले जात नाही, शारीरिक व मानसिक स्वाथ्यासाठी व्यायाम अत्यंत गरजेचा आहे, असे प्रतिपादन अहमदनगर येथील न्यू आर्ट्स, कॉमर्स अँड सायन्स कॉलेजचे शारीरिक शिक्षणप्रमुख प्रा. डॉ. शरद मगर यांनी सांगितले.



अहमदनगर येथील जनता शिक्षण प्रसारक मंडळाचे, मारुतरावजी घुले पाटील कला, वाणिज्य व शास्त्र महाविद्यालयात क्रीडा विभाग व आयक्यूएएस

यांच्या विद्यमाने आयोजित फिजिकल फिटनेस, या विषयावरील व्याख्यानात डॉ. मगर बोलत होते.

या वेळी कार्यक्रमाचे अध्यक्ष

प्राचार्य डॉ. ए. के. पंदरकर म्हणाले की, गेल्या दोन वर्षांपासून कोविडच्या महामारीला जग सामोरे जात असताना व्यायामाचे महत्त्व प्रत्येकाला समजले आहे.

नियमित व्यायामाने अनेक रोग टाळता येतात. व्यायामामुळे रोगप्रतिकारक शक्ती वाढते. शहरातील मुलांमध्ये वाढणारा लठ्ठपणा ही सध्याची गंभीर जागतिक समस्या असून, व्यायामामुळे ही समस्या कमी होण्यास मदत होते. सूत्रसंचालन प्रा. डॉ. के. आर. पिंसाळ यांनी केले. प्रास्ताविक प्रा. ए. के. आहेंर यांनी केले. प्रमुख पाहुण्यांचा परिचय प्रा. जी. एस. सोनवणे यांनी करून दिला. प्रा. पी. बी. लांडे यांनी आभार मानले.

## पुण्य नगरी

# घुले महाविद्यालयात योग शिबीर संपन्न

**एरंडगाव:** अहमदनगर येथील जनता शिक्षण प्रसारक मंडळाचे, मारुतरावजी घुले पाटील कला, वाणिज्य व शास्त्र महाविद्यालयाचा क्रीडा विभाग व आय.क्यू.ए.एस.यांच्या विद्यमाने योग व ध्यान शिबिराचे आयोजन करण्यात आले होते.

शिबिरात प्रशिक्षक प्रा. सागर शिंदे यांनी विद्यार्थ्यांना नमस्कार आसन, वज्रासन, अर्धन्दासन, नटराज आसन, योगमुद्रासन, ताडासन, वृक्षासन, अधो मुख, श्वानासन, अधो मुख, विरासना, भुजंगासना, बालासन, उष्ट्रासन, तितली आसन, सर्वांगासन, सेतू बंधासन, शवासन, हे योगासनाचे प्रकार करून दखवत माहिती



(छाया : प्रविण खोमणे)

दिली. ते म्हणाले की, योगा व्यक्तीला शारीरिक आणि मानसिकरीत्या सुदृढ बनवतो. मनाला एकाच जागी स्थिर करण्याची प्रक्रिया योग आहे. योगा केल्यामुळे आपलं शरीर नेहमी निरोगी आणि चांगले राहते. योगामुळे अनेक व्याधी दूर होत

असल्याचे शास्त्राने सिद्ध केले आहे. नियमित योगासने केल्याने मन प्रसन्न व उत्साही राहते. शरीर व मनाची कार्यक्षमता वाढते. शरीर व मनावर नियंत्रण करणे शक्य होते. नियमित योगा केल्याने मेंदूची कार्यक्षमता वाढून मनाची एकाग्रता वाढते. सूत्रसंचालन

विद्यार्थी विकास मंडळ अधिकार प्रा. एम. एल. कराळे यांनी केले प्रास्ताविक शारीरिक शिक्षण विभाग प्रमुख प्रा. ए. के. आहेंर यांनी केले. योगा प्रशिक्षक यांच परिचय प्रा. जी. एस. सोनवणे यांनी सत्कार केला. प्रा. ए. के. चोपडे यांनी आभार मानले.

Smart Ahmednagar

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### **First AID Box:**

If there is any medical emergency situation occurred, the first AID box has been set up in college. Therefore, the college can easily handle the first aid for the students, whenever students are injured in outdoor sports.



**First AID Box**

### **Fire Safety:**

The college has various chemicals and valuable equipment's. If there is disaster situation, large scale loss can occur. So fire extinguishers have been installed in various places as a remedy for this.



**Fire Extinguisher**

**Recommendation: -**

Installation of Sanitary napkin machine made available for girl's students and women employee.

**ENVIRONMENTAL AWARENESS INITIATIVE**

Controlled use of paper, plantation target and implementation. Display of environment protection banners, posters like save water, save energy at prominent places, waste disposal bins for wet and dry waste disposal bins for wet and dry waste disposal are some of the initiatives taken.

**OVERALL RECOMMENDATIONS**

1. Lab waste water quantity is not measured and drained to municipal drainage system.
2. Planning of chemical consumption and purchase to be ensured
3. Composting of bio degradable waste to be scientifically done
4. Septic tank sewage water analysis is to be done
5. Plan for green belt development to be prepared
6. Drinking water analysis shall be done as per IS 10500
7. Rain water Harvesting (RWH) is to be done technically
8. Reduction of wood policy
9. Department wise electrical load consumption is to be done
10. Energy used by each appliance is to be estimated
11. List of equipment/instrument and their consumption of (energy/water) is to be estimated.
12. Awareness for energy and water conservation among students and staff by displaying boards.
13. Automatic leak detections in water flowing pipeline
14. Water usage reduction techniques to be used
15. Tree plantation shall be done to maintain biodiversity as well as artificial nesting shall be installed.
16. Awareness among students and staff about green environment shall be done use tools like display boards.



### **Clean College Campus**

**National Service Scheme (N.S.S.)** has been implemented in the college since 2008 and academic year 100 students.

NSS volunteers undertake various activities in adopted villages and slums for community service; Duration of these services is 120 hours. They are also required to attend the 7 days annual special camp organised by the N.S.S. unit. The scheme provides a good opportunity to students to develop the spirit of service to society, qualities of leadership, personality development, initiative and dedication to a social cause. Students with an inclination for social work are welcome to join the N.S.S. We run activities various activities.

## N.S.S Activity: -Plantation Programme: -

The purpose behind plantation along the road sides, hilly area and college campus is to minimize the intensity of noise pollution and water conservation.



Plantation Programme done by NSS Student and staff

## टेंभी डोंगरावर विद्यार्थ्यांकडून वृक्षारोपण

अहमदनगर घुले पाटील महाविद्यालय राष्ट्रीय सेवा योजना विभागाचा उपक्रम

### जलभूमी

नगर : प्रतिनिधी :- अहमदनगर येथील जनता शिक्षण प्रसारक मंडळाचे, मारुतरावजी घुले पाटील कला, वाणिज्य व शास्त्र महाविद्यालयातील राष्ट्रीय सेवा योजनेतील स्वयंसेवक विद्यार्थी-विद्यार्थ्यांनीनी पिंपळगाव माळवी ( ता. नगर ) गावातील नयनरम्य डोंगरावरील श्री. क्षेत्र टेंभी खंडोबा मंदिर परिसरात स्वच्छता करून वृक्षारोपण केले. यावेळी विद्यार्थ्यांनी लिंबू, आंबा, चड, निलगिरी, कदम, गुलमोहर, सीताफळ, रेनट्री अशा पारंपारिक वृक्षाची लागवड करून पर्यावरण संवर्धनाचा संदेश दिला. या उपक्रमात मुंगसे रोहित, कुसळकर तेजस, शेख रेहान, थोरात दिगंबर, चव्हाण शिवशंकर, पवार रमेश, थोरे राहुल, गायकवाड



अभिमन्यू, कोतकर प्रतीक, शेवाळे आदिका, शिंदे सानिका, वाघ दिव्या, जगताप साक्षी, बोरुडे रूपाली, भगत वैष्णवी, लांडे गीतांजली आदी स्वयंसेवक विद्यार्थ्यांनी परिश्रम घेतले. महाविद्यालयाचे प्राचार्य डॉ. ए.के. पंदरकर यांनी सर्व स्वयंसेवक विद्यार्थ्यांचे डोंगरावरील वृक्षारोपण

उपक्रमाबद्दल कौतुक केले. हा उपक्रम यशस्वी करण्यासाठी राष्ट्रीय सेवा योजना कार्यक्रम अधिकारी डॉ. के. आर. पिसाळ, विद्यार्थी विकास मंडळ अधिकारी प्रा. एम. एल. कराळे स्वयंसेवक महिला प्रतिनिधी प्राध्यापिका पी. बी. लांडे, ऋतिक ताकपरे तसेच झिने नितिन, गायकवाड या ग्रामस्थांनी ही विशेष सहकार्य केले.



### **Health Check-up Program:**

The college continuously organizes various programs related to the health of students. College organizes Blood Donation camp for students as well as staff. In addition, necessary instructions are given to the students by doctors. If necessary, special guidance to students is also provided.



**Blood Donation Camp**

# रक्तदानातून विद्यार्थ्यांनी सामाजिक बांधिलकी जोपासली - नगरसेवक कुमारसिंह वाकळे

अहमदनगर मारुतरावजी घुले पाटील महाविद्यालयात भव्य रक्तदान शिबिर संपन्न



## सर्वांचे सहकार्य मिळाल्यास अनेक सामाजिक बदल घडण्यास मदत

कोविड-१९ मुळे संपूर्ण जगाची चिंता वाढली आहे. या रोगाच्या निवारणासाठी सर्व पातळीवर प्रयत्न सुरू आहेत. त्याचा एक भाग म्हणून महाविद्यालयातील राष्ट्रीय सेवा योजना व विद्यार्थी विकास मंडळाने रक्तदान शिबिर घेऊन एक चांगले काम केले आहे. रक्तदान हे अनेकांसाठी जीवनदान देणारे आहे. युवकांनी केलेले हे रक्तदान एक श्रेष्ठ दान आहे. या पुढील काळात महाविद्यालयात अशा प्रकारचे अनेक सामाजिक उपक्रम बोल्हेगाव परिसरातील लोकांच्या सहकार्याने घेणार आहोत. या कार्यात सर्वांचे सहकार्य मिळाल्यास अनेक सामाजिक बदल घडण्यास मदत होईल. डॉ.ए.के. पंढरकर - प्राचार्य, अहमदनगर घुले महाविद्यालय.

### नगर : जलभूमी वृत्तसेवा

कोरोना संकट काळात कोविड १९ व आता ओमाक्रॉनमुळे रक्ताची गरज वाढली आहे. कुठेही, कोणालाही दारोजव तुमच्या रक्ताची गरज असते तेव्हा जास्तीत जास्त रक्तदान करा व इतरांना ही रक्तदानास प्रोत्साहित करा. आज तुम्ही विद्यार्थ्यांनी रक्तदानातून एक सामाजिक बांधिलकी जोपासली आहे असे प्रतिपादन बोल्हेगाव नगरसेवक कुमारसिंह वाकळे यानी करून यापुढील काळात

महाविद्यालयाने घेतलेल्या सामाजिक उपक्रमंमा सक्तीरी मदत करण्याचे आग्रहाम दिले. जनता शिक्षण प्रसारक मंडळाच्या मारुतरावजी घुले पाटील महाविद्यालय, अहमदनगर येथे राष्ट्रीय सेवा योजना व विद्यार्थी विकास मंडळ यांच्या संयुक्त विद्यमाने युवा समाह व संस्था विश्वस्त सभापती डॉ.शित्तिज घुले यांच्या वाढदिवसाचे औचित्य साधून अष्टविनायक ब्लड बँक अहमदनगर यांच्या सहकार्याने भव्य रक्तदान शिबिराचे आयोजन करण्यात आले होते.

कोविडचे सर्व नियम पाळून रक्त संकलन करण्यात आले. शिबिराचे उद्घाटन प्रदेश उपाध्यक्ष, राष्ट्रवादी युवक काँग्रेस, अहमदनगर म.न. पा. नगरसेवक कुमारसिंह बबनराव वाकळे पाटील यांच्या हस्ते झाले. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ.ए.के. पंढरकर होते. या कार्यक्रमास रामभाऊ काते, श्री.पाटीळे, डॉ.संजय पठाडे, संजय मुळे, प्रा. एस.व्ही.मरकड, प्रा.पी.ए. फटंगरे, प्रा.एन.एन.झिंज, प्रा.एच.एस. सय्यद प्राध्यापिका

आर.व्ही. राजूत, माजी विद्यार्थी गणेश कुन्हे यांचे विशेष सहकार्य मिळाले. शिबिरास माजी विद्यार्थ्यांसह परिसरातील नागरिकांचा मोठा प्रतिसाद मिळाला चामध्ये संग्राम सिंग भैस, श्रीमती नेहा भैस, रामदास रावतळे, सलीम तांबोळी या स्थानिक नागरिकांनी ही सामाजिक जणिवेतूस शिबिरात रक्तदान केले. मारुतरावजी घुले पाटील महाविद्यालय विशेष सहकार्यातून महाविद्यालयातील युवा तरुण विद्यार्थी, बोल्हेगाव परिसरातील पालक, माजी विद्यार्थी, अशा ५४

रक्तदात्यांनी रक्तदान के-त्याबद्दल अष्टविनायक ब्लड बँक अहमदनगर तर्फे ट्रॉफी व सर्टिफिकेट देऊन प्राचार्य डॉ.ए.के.पंढरकर यांचा सन्मान करण्यात आला. कार्यक्रमाचे प्रारंभातच व सुरुसंचालन राष्ट्रीय सेवा योजना कार्यक्रम अधिकारी डॉ.के.आर.पिसाळ गणेश विजय कुन्हे, आकाश संजय भगत, आमंद शर्मा, मयूर विजय करुणपुरे, स्वप्नील शिरवाळे, यंभी केले तर आभार विद्यार्थी विकास मंडळ अधिकारी प्रा.एम.एल.कराळे यानी व्यक्त केले.

## N.S.S Activity and Photograph:-





## अहमदनगर घुले पाटील महाविद्यालयाचे विळद येथील विशेष श्रमसंस्कार शिबिर संपन्न

राष्ट्रीय सेवा योजना शिबिर विद्यार्थ्यांचे व्यक्तिमत्व घडवणारा उपक्रम- माजी प्राचार्य नजन श्रमसंस्कार शिबिर युवाशक्तीला नवचेतना देणारे केंद्र - प्रा.डॉ.गणेश निमसे

नमन : जलधुमी वृक्षसेवा

सावित्रीबाई फुले पुणे विद्यापीठ, पुणे व जयता शिक्षण प्रसारक मंडळाचे, जयशंकराजी फुले पाटील कला, वाणिज्य व शास्त्र महाविद्यालय, अहमदनगर राष्ट्रीय सेवा योजना विभाग यांच्या विद्यमाने माझी वासुंधरा व जलधुमी संघर्षाने या उपक्रमसंगीत ७५ वया भारतीय स्थानिकता अमृत महोत्सव विविध विशेष प्रयत्नसंस्कार शिबिर समारंभ समारंभ संपन्न झाला. या कार्यक्रमात अहमदनगरी राष्ट्रवादी कॅम्पिंग, सहविद्यार्थी कलासांगीत सुनिश्चिंतन करताना होते. तर ज्युद्ध उपनिर्देशित विळद प्रयत्नसंस्कार सारथे संचय भाष्यकार, प्रशासकीय अधिकारी के.चाप, नजन होते. शिबिरांतून सात दिवस आलेले अनुभव राष्ट्रीय स्वयंसेवक विद्यार्थी संघातही उगारताने, अहमदनगर पुढे, पायथी मंड, अहमदनगर कान्हे, भुवनेश्वर भावने यांनी सांगितले. तर महाविद्यालयाचे प्राचार्य डॉ.ए.के. पंढरकर, प्रा. डॉ.ए.ए.सी. अहमदुल्ला यांनीही मनोगत व्यक्त केले. या कार्यक्रमात विळद सारथे संचय भाष्यकार, प्रकाश भाष्यकार, उपसारथे श्री. स्वामी विमले, माजी उपसारथे दत्ताजी खडक, विद्यमान प्रयत्नसंस्कार सहाय्य अमित पटारे, युवाशास्र अजित गेंक, रागर जलजल, कैलाश अहमदुरे, प्रायसेवक अनिराज वाकडे, वाकडे

प्रयोग जलजल, युवाशास्रवाकडे जलजल वाकडे, मंगेश वाकडे, जिला परिषद सायरा विळद युवाशास्रवाकडे श्री.जया लाड तसेच प्रायसेवक व प्रशासकीय सेवक सुंद व विळद प्रयत्नसंस्कार सहाय्य व सहाय्य प्रयत्नसंस्कार सहाय्ये उपस्थित होते. प्रा.एच.एस. शण्कर, प्रा. आर.ए.नेटके, प्रा.एच.बी. खान प्रायसेविका आर.बी.भागवत, पी.एन.खरड, विक्रम, आदर्श मंडेम, वैरागी उडे, स्वामी वाकडे, शक्ति साकपरे, यांचे विशेष सहकार्य मिळाले. या कार्यक्रमाचे सुदूरसंचालन विद्यार्थी विकास मंडळ अधिकारी प्रा.एच.एस. कान्हे यांनी केले तर आभार राष्ट्रीय सेवा योजना कार्यक्रमा अधिकारी प्रा. डॉ.के.आर. पितराड यांनी मानले.

शिबिर युवाशक्तीला नवचेतना देणारे - प्रा.डॉ.मंगेश निमसे आरंभना देणारा आरंभिक, सामाजिक, सांस्कृतिक व शैक्षणिक विकास घडविण्यासाठी राष्ट्रीय सेवा योजना उपक्रमाची महाभाषी भूमिका दिवून वेत. देशातील युवाशक्तीला नवचेतना देण्याचे कार्य हे देशातील राष्ट्रीय सेवा योजना उपक्रमातून भाष्यकारातून होत आहे. असे राष्ट्रीय सेवा योजना शिक्षण उपविभाग सहाय्यक प्रा.डॉ.मंगेश निमसे यांनी सभारोप कार्यक्रमा प्रसंगी मनोगत व्यक्त करताना सांगितले.



सेवा शिबिर विद्यार्थी उपनिर्देशक घडवणारा उपक्रम - माजी प्राचार्य नजन श्रमसंस्कार, शिक्षण, संस्कार, कलासंगीत व कट करणाऱ्या लवरी राष्ट्रीय सेवा योजना शिबिरातून विद्यार्थ्यांमध्ये निर्माण होते. या उपक्रमातूनच त्यांचे व्यक्तिमत्व घडते असे प्रतिपादन जयता प्रसारक मंडळ प्रशासकीय अधिकारी माजी प्राचार्य कारभारी नजन यांनी यावेळी व्यक्त करत विद्यार्थ्यांना सहिष्णु मार्गदर्शन केले. शिबिर स्थळी स्वयंसेवक विद्यार्थी कामे राष्ट्रीय स्वयंसेवक विद्यार्थी यांच्या

मदतीने जालेले परिसर व ग्राम स्वच्छता, युवासंघर्षाने जनजागृती, समतल पायथी खर, चवराई संधारा, ऐतिहासिक व धार्मिक स्थळांची स्वच्छता - खोबरेल शिव शंकर मंदिर परिसर स्वच्छता विळद येथील स्वयंसेवकी, शिबिरांतून मंदिर परिसर स्वच्छता तसेच कोविड पाठभूमीवर आरोग्य कारभारी बदल जागृती, लसीकरण योजने जनजागृती, भयानभुमी अभियान, असे अनेक सांस्कृतिक कार्यक्रमा बरोबर विद्यार्थ्यांना मार्गदर्शन पर स्वागताने आभार व्यक्त करताना आले होते. या भाष्यकारांचे झालेले सहाय्यकार

कार्यदर्शन शिबिरातून विक्रम अहमदुरे - युवाशक्ती सामाजिक कार्यकर्ता, प्रा.डॉ.अहमदुरे - राष्ट्रसेवा व युवक, प्रा.एच.बी.दहाडोडे - लेक भाषणा लेक शिक्षण, प्रा.एच.ए.भाकडे - ऐतिहासिक स्थळांचे संघर्षाने, प्रा.एच.एस.कान्हे - पर्यटनशास्त्र शास्त्रीय जागृती, प्रा.पी.ए.कटारगे - पायथी पायथी व उपक्रम योजना, प्रा.के.बी. वाकडे - उपक्रम करी शिबिर, डॉ.अजित पोखरणे - आरंभक जयता व जयतनभुमी या शिबिरातून स्वागताने झाली. या शिबिराचे वैशिष्ट्य म्हणजे माझी वासुंधरा जलधुमी संघर्षाने अंतर्गत यवराई संधारातूनच काय करताना आले.





OLHEGAON  
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 अहमदनगर, महाराष्ट्र 414111, भारत  
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 Long 74.71399°  
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जनता शिक्षण प्रसारक मंडळाचे,  
मारुतरावजी घुले पाटील महाविद्यालय, अहमदनगर

26 नोव्हेंबर संविधान दिन



## विद्यार्थ्यांनी संविधानाचा वस्तुनिष्ठ अभ्यास करावा – प्रा.अविनाश कोल्हे

अहमदनगर घुले महाविद्यालयात संविधान दिन साजरा

जल्मभूमी नगर : प्रतिनिधी

देश व्यवस्थित चालवण्यासाठी व समाजात सार्वभौमत्व, स्वातंत्र्य, समता, बंधुत्व, न्याय ही मूल्ये समाजात रुजण्यासाठी विद्यार्थ्यांनी संविधानाचा वस्तुनिष्ठ अभ्यास करण्याची आवश्यकता असल्याचे प्रतिपादन रूपारेल कॉलेज, मुंबई येथील राज्यशास्त्र विभाग प्रमुख प्रा.अविनाश कोल्हे यांनी केले. अहमदनगर येथील मारुतरावजी घुले पाटील महाविद्यालयात राज्यशास्त्र विभाग, राष्ट्रीय सेवा योजना व विद्यार्थी विकास मंडळ

अध्यक्षतेखाली झालेल्या या कार्यक्रमास प्रा.अविनाश कोल्हे प्रमुख पाहुणे होते. कार्यक्रमाचे

अधिकारी प्रा. डॉ. के. आर. पिसाळ यांनी करून दिला. प्रसंगी उपस्थित प्रमुख



घुले पाटील अ. नगर महाविद्यालय संविधान दिनानिमित्त मार्गदर्शन करताना प्रा.अविनाश कोल्हे. ( छाया : अशोक मुक्तिदे )

लोकशाही मूल्यांची पायमल्ली नको –

आजच्या काळात लोकशाही मूल्यांची पायमल्ली होताना दिसत आहे. त्यामुळे भारतीय लोकशाही धोक्यात आली आहे. आपली लोकशाही व स्वातंत्र्य अबाधित ठेवण्यासाठी संविधानाचा अभ्यास करून त्याचे रक्षण करणे गरजेचे आहे .

प्राचार्य डॉ.ए.के.पंदरकर

यांच्या संयुक्त विद्यमाने २६ नोव्हेंबर 'संविधान दिन' साजरा करण्यात आला. महाविद्यालयाचे प्राचार्य डॉ.ए.के.पंदरकर यांच्या

प्रास्ताविक राज्यशास्त्र विभाग प्रमुख प्राध्यापिका पी.एन. खरड यांनी केले. पाहुण्यांचा परीचय राष्ट्रीय सेवा योजना

मान्यवर, प्राध्यापक, विद्यार्थी समवेत संविधान प्रस्ताविकाचे वाचन करण्यात आले. कार्यक्रमाचे सूत्रसंचालन प्राध्यापिका पी.बी. लांडे यांनी केले तर आभार विद्यार्थी विकास मंडळ अधिकारी प्रा.एम. एल.कराळे यांनी मानले. प्रा.पी.ए.फटांगरे व ऋतिक ताकपरे यांचे विशेष सहकार्य कार्यक्रमास मिळाले.

**b) Recommendations: -**

1. Reviews periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Give scientific names to the trees.
2. Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
3. Create awareness of environmental sustainability and takes actions to ensure environmental sustainability.
4. Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.
5. Celebrate every year 5th June as 'Environment Day' and plant trees on this day to make the campus more Green.



**Tree plantation Programme organized in the Institute on 15th August 2020**

On the occasion of the Birthday of Former MLA and Secretary, Janata Shikshan Prasarak Mandal Honourable Shri. Chandrashekhar Ghule Patil, Our Institute organized Tree plantation in institute premises, this programme of sapling Plants done by the hands of Honorable Principal Dr. T. M. Varat Sir, All Faculty Staff and Administrative Staff were present for the Occasion.

### **Plastic Free Campus:**

The use of plastic is completely banned in college campus. The college is always vigilant among students for the use of paper bags.



**Awareness Board for Student**



**Plastic Free campus**



## **Recommendation:**

### **Paperless Office:**

Use Whats App, E-mail, Website etc. for academic as well as office works, which helps to make the college paperless.



### **Conclusions: -**

Considering the fact that the institution is predominantly a Graduate college, there is significant environmental research both by faculty and students. The environmental awareness initiatives are substantial. The installation of plastic free campus and vermicomposting practices are noteworthy. Besides, environmental awareness programmes initiated by the administration shows how the campus is going green. Few recommendations are added to waste management using eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus & thus sustainable environment and community development.

## **PLANT DIVERSITY OF COLLEGE CAMPUS: -**

A survey was carried out to find plant diversity in the college campus of Marutraoji Ghule Patil Art's, Commerce and Science, College. The survey was focused on the diversity of plants on the basis of their classification and economic importance.





ग्रामीण जनसेवा आवाज  
**जल भूमी**

# अहमदनगर घुले महाविद्यालयाचा स्तुत्य उपक्रम

## महाविद्यालय परिसरात पक्षांना केली चारा- पाण्याची उपलब्धता

### जल, भूमी

#### नगर : प्रतिनिधी

अहमदनगर येथील घुले पाटील महाविद्यालयात एक जबाबदारी म्हणून पक्षांना पिण्यासाठी पाणी उपलब्ध करण्या हेतुने महाविद्यालय परिसरातील वृक्षराजीवर पिण्याच्या पाण्याची लटकती पात्र लावण्यात आली आहे. सध्या दिवसेंदिवस उन्हाची तीव्रता वाढती आहे. तीव्र उन्हाचे चटके सर्व प्राणीजनमातांना सहन करावे लागताना, तीव्र उन्हामुळे पक्षांनाही मोठ्या अडचणीला सामोरे जावे लागते. अनेक पक्षांना पिण्याच्या पाण्याची मोठी समस्या असते परिसरात याच गोष्टीचे निरीक्षण करून पक्षांना वाचवण्यासाठी दरवर्षीप्रमाणे यावर्षीही जनता शिक्षण प्रसारक मंडळाचे, अहमदनगर येथील मारुतरावजी घुले पाटील कला, वाणिज्य व विज्ञान महाविद्यालयात वनस्पती उद्यानात झूलॉजी विभागाने उन्हाळ्यात पक्षांना पाणी पिण्यासाठी

पाण्याचे पात्र लावण्यात आले आहे. पक्षी फक्त जंगलातच राहत नाही तर गाव शहरात सुद्धा राहतात. उन्हाळ्यात तर वनात खाण्यास व पिण्यासाठी पाणी मिळत नसल्याने पक्षी खाण्यापिण्यासाठी काहीतरी मिळते

#### प्राचार्य - डॉ.पंढरकर यांचे आवाहन

पर्यावरण हा नुसता शिकवण्याचा, चर्चा करण्याचा विषय नसून कृतीचा विषय आहे. पर्यावरणाचा प्रमुख घटक पक्षी जो बीजवहन करून पर्यावरणाला मोठा हातभार लावत असतो. सद्यस्थितीला पक्षीही अती उष्णतेच्या वातावरणामुळे पिण्याच्या पाण्याअभावी पक्षी मृत्युमुखी पडताना दिसतात. त्यामुळे महाविद्यालयीन विद्यार्थी, प्राध्यापक व प्रशासकीय सेवक यांनी आपल्या पिण्याच्या पाण्याच्या बाटली मधील पाणी घरी जाताना इतरत्र टाकण्यापेक्षा पक्षांना पाणी पिण्यासाठी झाडांना लावण्यात आलेल्या पात्रांमध्ये टाकावे.

#### प्राचार्य डॉ. ए. के. पंढरकर, मारुतरावजी घुले पाटील महाविद्यालय, अहमदनगर

का म्हणून गावाकडे, शहराकडे धाव घेत असतात.

**विशेषत :** जिथे मानवांचा वावर आहे अशा ठिकाणी पक्षांची जास्त ये जा असते. सध्या महाविद्यालय परिसरातील बाँटनी गार्डन मध्ये चेरी, बहावा, बदाम, बकुळ, निलगिरी, रेंन ट्री, उंबर, वड,

पिंपळ, चिंच, आपटा, कांचन, कदंब, बाँटल ब्रश, फणस, आवळा, आंबा, सप्तपर्णी, कडुनिंब, मोह, पळस, शिसव, पांगारा, सावर, सोताफळ, जांभुळ, कोकम, कडुनिंब, करंज, कवठ, बेल, बोर,

प्राचार्य डॉ. ए. के. पंढरकर, चिंच, आवळा, मोहा, टेंभुर्णी, खिरणी, शिवण, जांभुळ, नारळ, शिंदी, ताडफळ, सीताफळ, रामफळ, कवठ, फणस, लिंबू, पेरू, करंज, बांबू, हादागा, शेगागा, फायक्स, बाँटल पंप, अशोका, पिंपरी असंख्य झाडामुळे पक्षांना थांबण्यासाठी निसर्गरम्य असे वातावरण आहे. त्यामुळे पक्षांची संख्याही मोठ्या



#### गर्द बहावा....

बागेमध्ये 'बहावा'. पिवळ्याधम्मक फुलांच्या लडोनी भरलेल्या बहाव्याकडे पाहणे म्हणजे नेत्रसुखच दुपारच्या उन्हामध्ये उष्णतेच्या वनच्यात 'बहावा' असा फुलला की, पिवळी गर्द अशी झुंबरे लावली आहे. त्या ठिकाणी पक्षांना पिण्याचे पाणी उपलब्ध करून देण्यात आले आहे.

प्रमाणात वाढली आहे. या वनस्पती प्रकारच्या पक्षांची रोजच ये-जा गार्डनमध्ये खारुताईची संख्या परिसरात वाढती आहे. जास्त प्रमाणात आहे. तर विविध \*\*\*\*\*

**Flowering plant:-**



*Jatropha integerrima*



*Jasminum sambac*



*Rosa Indica*



Marigold (*Tagetics erecta*)

**ASHWAGANDHA (*Withania somnifera*)**

F-Solanaceae

Parts used: Root, leaves

**Uses:** Rheumatism, Removes functional obstruction of body, Ulcer, Nerves disorder, Useful for Sexual & general weakness, Improves vitality, Premature ageing, Emaciation, Debility, Memory loss, Thirst, Dehydration, Constipation, Chronic fatigue.



**ALOEVERA (*Aloe barbadensis*)**

F-Liliaceae Parts used: Leaves

**Uses:** Gastroenteritis, Skin, Constipation, Irregular Menstruation, Piles, Worms, Rheumatism, Jaundice, Acne & liver ailments, Healing of skin wound, Scald, Sunburn, Sores, Shingles, Psoriasis, Warts. Conjunctivitis, Sties, Allergic reactions, Vaginal infections, Insect bites.



**HIBISCUS (*Hibiscus rosa-sinensis*)**

F - Malvaceae

Parts used – Whole Plant

Uses – Hair loss, Hypertension, Cough, Induce Abortion, Headache, Lower Cholesterol, Liver disorders, As Aphrodisiac and bilious disorders.



KANAK CHAMPA (*Belamcanda chinensis*) F -Iridaceae

Parts used- Rhizome

Uses – Asthma, Throat troubles, Swollen Liver, Spleen, Gonorrhoea, Malaria, Cancer, Cough, Bronchitis, Mumps, Wheezing, Fever, Inflammation, snake bites, Anti-bacterial & Anti-fungal, Liver problems.



LIME (*Citrus lemon*)

F-Rutaceae

Parts used: Fruit, Leaves, Flowers

Uses: Indigestion, Cough, Bile, Rheumatism, Stomach disorder, Malaria, Skin, Jaundice, Cold, Fever, Eye diseases, Headache, High Blood pressure & Infections, Stomatitis, Inflammation, Scurvy.



SADABAHAR (*Vinca rosea*) F-Apocynaceae

Parts used: Leaves

Uses: Cancer, Hypotension, Diabetes, Wasp stings, Tumour, Toothache, Memory loss, Malaria, Leukemia, Hodgkin's diseases, Nausea, Hair loss, sore throat, Pain.



**TOUCH-ME-NOT (*Mimosa pudica*)**

F-Mimosaceae

Parts used: Whole plant

Uses:- Diarrhoea, Amoebic dysentery, Bleeding piles, Gynecological disorders, skin diseases, Bronchitis, General weakness, Impotence, wounds, Ulcers, Fistula, Scrofula, Conjunctivitis, Edema, Rheumatism, Myalgia



**SARPAGANDHA (*Rauvolfia serpentina*)**

F-Apocynaceae

Parts used: Roots & leaves

Uses: Sedative, Hypnotic, Fever, Snake bite, Hypertension, Epilepsy, Poisons, Eczema, Hysteria, Insomnia, Insanity, Mental illness, Traumas, Weakness, Worms.



**TULSI (*Ocimum sanctum*) F-Lamiaceae**

Parts used: & Seeds

Uses: Bronchitis, Catarrh, Digestive Complaints, Skin diseases, Cold, Cough, Bronchial asthma, Bleeding disorders, Antibacteria, Heart disease, Earache, Headache, Insect bites, Diarrhoea, Dysentery, Arthritis, Blood pressure, Inflammations, Cancer, Anti fertility.



ASHOKA (*Saraca asoca*)



F- Caesalpiniaceae)

Parts used: Leaves, Flowers, Seeds, Bark.

USES Uses: Useful for Menstrual problem, Uteri ne bleeding,  
Haemorrhagic dysentery, Diabetes, Piles,  
Dyspepsia, Indigestion, Burning sensation,  
Stimulate uterus, Blood disorders, Fractures,  
Tumours, Bites



SHATAVARI (*Asparagus racemosus*)

F-Liliaceae

Parts used: Rhizome

Uses: Piles, Excessive menstruation, Skin,  
Aphrodisiac, Malaria, Typhoid, Nerve  
weakness, Blindness, Polio, Feeds, Acidity,  
Vigour, Ureteral stones, Cardiac debility,  
Cough, Arthritis, Increase breast milk, Diarrhea,  
Piles.



**BAEL (*Aegle Marmelos*)**

F-Rutaceae

Parts used: Fruits, Bark, Leaves, Roots

Uses: Chronic Diarrhoea & Dysentery, improve appetite & digestion, Diabetics, Polio, Cold, Cough, Fever, Constipation, Peptic Ulcer, Dyspepsia, Ophthalmic, Abdomen pain, Urinary troubles, Burning sensation.



**RUBBER (*Hevea brasiliensis*)**

F-Euphorbiaceae

The leaves of the rubber plants are known to have natural anti-inflammatory properties. That means these leaves are thought to help ease skin rashes when applied to the affected area. The roots are also believed to help with rheumatic diseases



*Euphorbia milii* widely used in folk medicine for the treatment of warts (South Brazil), cancer and hepatitis (china). It has been reported that *Euphorbia milii* possesses antifungal and antinociceptive property, acts as natural molluscicide, can curb the spread of schistosomiasis.

## Kitchen Garden



Papaya (*Carica papaya*)



Guava (*Psidium guajava*)



Mango (*Mangifera Indica*)

Areca Palm (*Dypsis lutescens*)



Snake Plant (*Dracaena trifasciata*)





*Thuja (Medicinal Plant)*



*Trachispermum ammi (Medicinal Plant)*



*Dypsis lutescens*



*Common daisy (Indegenous plant)*



*Ipomoea (Indegenous plant)*





*Platyclusus orientalis*



*Plumeria Pudica*





*Tecoma stans*




*Adhatoda Vasica*

## ACKNOWLEDGEMENT

Dear Sir,

We are grateful to the committee members of Marutraoji Ghule Patil Art's, Commerce and Science College, Ahmednagar to award this prestigious project and allowed us to enter the new era of **Green Audit (Inclusive of Energy Conservations and Environment Protection)** for College Campus. Further we sincerely thank the college staff for providing us necessary facilities and co-operation during the audit. This help making the audit, a success.

Further we hope, this will boost the new generation to take care of Environment and propagate these views for many generations to come.

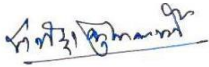


FOR

*PERIWINKLE ENVIRO SERVICE*

## ***CERTIFICATE***

This is to certify that **Periwinkle Enviro Services**, Ahmednagar, Maharashtra has conducted green audit that comprises Energy audit, Green and Environment audit of **Marutraoji Ghule Patil Art's, Commerce and Science College**, Bolhegaon Ahmednagar durin 25<sup>th</sup> April 2023 to 25<sup>th</sup> May 2023. The audit involves field visit, measurements and observations, and interaction with staff. To the best of our information said green audit gives a true and fair view in conformity with auditing principle.



FOR

**PERIWINKLE ENVIRO SERVICE**

### Acknowledgement

Dear Sir,

We are grateful to the committee members of Marutraoji Ghule Patil Arts, Commerce and Science College, Ahmednagar to award this prestigious project and allowed us to enter the new era of **Green Audit (Inclusive of Energy Conservations and Environment Protection)** for College Campus. Further we sincerely thank the college staff for providing us necessary facilities and co-operation during the audit. This help making the audit, a success.


Further we hope, this will boost the new generation to take care of Environment and propagate these views for many generations to come.


for Periwinkle Enviro Services

# CERTIFICATE

This is Certify That the **Periwinkle Enviro Services, Ahmednagar /Pune** Performs the Energy, Green and Environment Audit of the " **Janata Shikshan Prasarak Mandal's Marutraoji Ghule Patil Arts, Commerce and Science College Nagapur, Ahmednagar**" during the 25thApril-25th May, 2023. The data furnished in the report is authentic and verified.

  
Dr.S.D.Kulkarni  
CEO/External Auditor  
Periwinkle Enviro Services

  
Dr.S.B.Dahatonde  
IQAC CO-Ordinator

  
Prof.P.A.Phatangare  
Internal Auditor

  
Dr.A.K.Pandharkar  
Principal

## Certificate

This is to certify that Periwinkle Enviro Services, Ahmednagar,  
Maharashtra  
has conducted green audit that comprises energy audit, environment  
audit Marutraoji Ghule Pati Art's, Commerce and Science College,  
Ahmednagar from 25th April 2023 to  
25th May 2023. The audit involves field visit, measurements and  
observations, and interaction with staff. To the best of our  
information said green audit gives a true and fair view in conformity  
with auditing principle.  
Periwinkle Enviro Services

## Environment Green audit Certificate



# Certificate of Registration

This Certificate certify that the Management System of  
**JANATA SHIKSHAN PRASARAK MANDAL'S**  
**MARUTIRAOJI GHULE PATIL ARTS, COMMERCE AND SCIENCE COLLEGE**

Near Raghavendra Swami Temple, Bolhegaon, 414111, Ahmednagar,  
College Code - 0893, India

has been audited by ICV and found to be  
in compliance with the requirements of the standard

# ISO 14001: 2015

(Environmental Management Systems)

**This certificate is valid for  
the following scope:**

Providing Course: BA, BCOM, B.SC, B.SC.( Computer Science)

Certificate No.	: IN/33698790/2566
Certificate Issue Date	: 06/07/2023
1st Surveillance Due	: 06/06/2024
2nd Surveillance Due	: 06/06/2025
Date of Expiry	: 05/07/2026



*Abhishek Singh*

CEO  
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