

*Janvikas Shikshan Sanstha Yeoda's*

# Arts Commerce College, Yeoda

Tq. Daryapur Dist: Amravati,

Maharashtra, PIN: 444706



**D.V.V.**

## **CLARIFICATION**

**FOR**

**7.1.3: QUALITY AUDITS ON ENVIRONMENT AND ENERGY REGULARLY UNDER TAKEN BY THE INSTITUTION . THE INSTITUTIONAL ENVIRONMENT AND ENERGY INTITIATIVE ARE CONFORMED THROGUH THE FOLLOWING.**



*Janvikas Shikshan Sanstha, Yeoda's*

# Arts-Commerce College Yeoda

Tq. Daryapur, Dist. Amravati, Maharashtra, 444706

Affiliated to S.G.B. Amravati University, Amravati (M.S.)

**Recognized by U.G.C. u/s 2(f) & 12B & NAAC**

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College Code: 155

Website: [www.accy.ac.in](http://www.accy.ac.in)

Sau. Sulbhatai M. Kokate

Shri Gajananrao N. Kokate

Dr. Y.G. Singh

**President**

**Secretary**

**Principal**

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## DECLARATION

This is to declare that the Information, Photos, Reports, True Copies, Numerical Data, etc. furnished in this file as supporting documents are verified by IQAC and found correct.

**IQAC Coordinator**

**Coordinator**

Internal Quality Assurance Cell  
Arts Commerce College, Yeoda  
Tq. Daryapur, Dist. Amravati



**Principal**

**PRINCIPAL**  
Arts-Commerce College  
Yeoda, Dist. Amravati

Janvikas Shikshan Sanstha Yeoda's

# Arts Commerce College, Yeoda

Tq. Daryapur Dist: Amravati,

Maharashtra, PIN: 444706



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**IQAC Coordinator**

**Coordinator**  
Internal Quality Assurance Cell  
Arts Commerce College, Yeoda  
Tq. Daryapur, Dist. Amravati



**Principal**

**PRINCIPAL**  
Arts-Commerce College  
Yeoda, Dist. Amravati



# Green Audit Report

## Janvikas Shikshan Sanstha, Yeoda's Arts-Commerce College Yeoda

Tq. Daryapur, Dist. Amravati. Pin:444706(M.S)



(For the AY 2022-2023)

Prepared by  
**AiM Sustainability Services**

Pune



Date: 25/01/2024

Version: 01



## Acknowledgement

Green Audit Assessment Team would like to express grateful thanks to the management of Janvikas Shikshan Sanstha Arts-Commerce College Yeoda for assigning this important work of Green Audit. We appreciate the cooperation of our Team for completion of study. Our special thanks to

SR.NO	NAME	Designation
1	Smt. Sulbhatai M. Kokate	President
2	Smt. Dipali Khode	Vice President
3	Shri Gajananrao N. Kokate	Secretary
4	Dr. Yashowardhan G. Singh	Principal
5	Dr. Mohammed Azeemuddin	Vice Principal
6	Dr. Anil M. Katrojwar	IQAC coordinator

Sincere thanks to all for giving us the necessary input to conduct this very vital exercise of Green Audit. We are also thankful to the environment committee and other staff members who were actively involved while collecting the data and conducting field measurements.

### Environment Committee

S. N	NAME	Designation
1	Dr. Mohammed Azeemuddin	Green and Energy Audit Co-ordinator
2	Dr. N. W. Hambarde	Member
3	Dr. Sayyad Sajjad Sayyad Mushtaq	Member
4	Dr. Sandeep Dongare	Member

We sincerely hope and believe that the efforts made by the present Green Audit Committee will be helpful for Janvikas Shikshan Sanstha Arts-Commerce College Yeoda and we hope that it becomes a responsibility of all the stakeholders of this college campus to follow the proposed management plan suggested in the report to reduce our impact on our environment.



**Picture 01: College Main Building** Janvikas Shikshan Sanstha Arts-Commerce College Yeoda



**Picture 2: College Main entrance** Janvikas Shikshan Sanstha Arts-Commerce College Yeoda



## Green Audit Team

**Dr. Anuradha Borekar:** The evaluation of criteria as per chapter 7 of “National Assessment and Accreditation Council (NAAC) - Manual for Affiliated/Constituent UG & PG Colleges, December 2021 and Chapter VII of “Guidelines for the Creation of the Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR) by Accredited Institutions” is done by Dr. Anuradha. Dr. Anuradha also examined the “performance indicators of Green Audit & Green Audit Parameters/ Projects performed” as a Lead Auditor from AIMSS. She performed several Environment and Green Campus audits at various academic institute as per NAAC guideline. Dr. Anuradha secured the M.Phil. (Botany, Molecular Biology, Biotechnology and plant breeding), Ph.D. (Water quality assessment, Water conservation, Biodiversity and Environment).

**Mr. Ajit Ghule:** Technical advisor for Green Audit. He performs onsite surveys. He is a graduate in Social Science and has 5 years of experience in Green Audit.

## Disclaimer

Green Audit Team has prepared this report for Janvikas Shikshan Sanstha Arts-Commerce College Yeoda based on input data submitted by the representatives of Institute. Complemented the report with the best judgment capacity of the expert team. While all reasonable care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered. It is further informed that the calculations are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements, or forecasts in the report.

Prepared by:

A handwritten signature in blue ink that reads 'Anuradha Borekar' with a horizontal line underneath.

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## Abbreviations

**AHU:** Air Handling Unit

**BEE:** Bureau of Energy Efficiency

**CFL:** Compact Fluorescent Lamp

**COP:** Coefficient of Performance

**CPCB:** Central Pollution Control Board

**DG:** Diesel Generator

**ECRM:** Energy Consumption Reduction Method

**EF:** Emission Factor

**HSD:** High Speed Diesel

**HOD:** Head of Department

**HVAC:** Heating, Ventilation, And Air Conditioning

**ISO:** International Standardisation Organisation

**Km:** Kilometer

**kV:** kilo Volt

**kW:** kilo Watts

**Lab:** Laboratory

**LED:** Light-Emitting Diode

**MNRE:** Ministry of New and Renewable Energy

**MSEDCL:** Maharashtra State Electricity Distribution Co. Ltd.

**NSS:** National Service Scheme

**UGC:** University Grant Commission

**WHO:** The World Health Organization

**TR:** Tons of Refrigeration



## Executive Summary

In accordance with the requirement of chapter 7 of “National Assessment and Accreditation Council (NAAC) - Manual for Affiliated/Constituent UG & PG Colleges, December 2019” Risk-Based Audit conducted at Janvikas Shikshan Sanstha Arts-Commerce College Yeoda for Academic year 2022-23. Site Visit to perform the Green Audit at college was done in December 2023. The purpose of the audit was to ensure that the practices followed on the campus are in accordance with the Green Policy adopted by the institution. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment Sustainability as well as the degree to which the Departments follow the applicable regulations, policies and standards. During the initial planning of the audit, an analysis was conducted in order to identify, evaluate and prioritize the risks associated with environmental sustainability. The analysis was based upon an examination of the policies, supportive documents that govern the environmental sustainability, on data analysis, and on the results of preliminary interviews with personnel considered key in the environmental management in the campus. The criteria and methods used in the audit were based on the identified risks. The methodology used included physical inspection of the campus, review of the relevant documentation, and interviews. A questionnaire is used during audits. This audit report contains observations and recommendations for improvement of environmental consciousness.

## Statement of Assurance

This audit has been conducted in accordance with the NAAC Green Audit requirement. In our professional judgement, sufficient and appropriate audit procedures were completed, and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions are based on a comparison of the situations as they existed at the time of the audit with the established criteria. Green Audit Report is prepared for the academic session 2022-23.

## Summary of Findings

The main findings of the audit show that, in general, all the departments and students are aware of the need for environmental protection at a general level. It was also observed that a number of best practices such as maintaining the college garden, waste management (compost pit), water management, application of day light, installation of solar lamps, cross ventilation, carpooling, biodiversity, plantation, gender equity, health checkup plan, blood donation camp, health and safety facilities, Divyangjan student facility etc. are followed in the campus. Nevertheless, on detailed review, it was observed that, as the college is continued implementing the Green Policy, several best practices are in the pipeline. In addition, certain processes could benefit from further review in order to improve their efficiency, and consistency. This report explained the opportunity for improvement. Please refer to chapter 5 for more details.



## Chapter 01: Introduction

### About the College:

Welcome to Arts Commerce College, Yeoda, a renowned educational institution located in the rural landscape of Taluqa Daryapur, Dist. Amravati, Maharashtra. Established in 1994, our college is dedicated to providing high-quality education in the fields of Arts and Commerce. Janvikas Shikshan Sanstha, Yeoda, has been the driving force behind the establishment of our college, nurturing the seeds of education since its inception. Through unwavering dedication and relentless efforts, they have led the college to unparalleled success and academic excellence. Janvikas Shikshan Sanstha's commitment to upholding values and providing quality education has been instrumental in the college's continuous growth and prosperity. Their unwavering support and guidance have positively impacted countless lives, empowering future generations and leaving a lasting impression on the community..... [Read More](#)

Reference - <https://accy.ac.in/index.php>

### Secretary Message



#### Shri Gajananrao N. Kokate

Secretary  
Janvikas Shikshan Sanstha, Yeoda's

Our Arts, commerce college symbolizes my good wishes ambitions and aspirations for the upliftment and prosperity of the people of this area and particularly the younger generation who have been since long deprived of their legitimate right of getting higher education for want of such facilities in the area. I am fully confident and effort that over the year the institution will become an excellent center of knowledge and learning. And will prove to be a pioneer institution for setting exemplary records on the academic horizon of the state and also in catering in the educational needs of the youths of this area.

I also would like to advise the young students that no achievement or success is possible in life without hard toil. So, they should always starve very hard in pursuing their studies and acquire education not merely for getting certificated, degrees or jobs but for the sake of knowledge and learning alone.....

My blessings and good wishes are always best towards them and I always long for their wellbeing and prosperity in life wherever they are.



## From the Principal's Desk



**Dr. Y.G. Singh**  
Principal,

**Janvikas Shikshan Sanstha Arts-Commerce College Yeoda .**

The singular most important vision of Arts, Commerce College, Yeoda is committed to working in the pursuit of excellence and hence the college mainly focuses on three areas: academic excellence, personal values, and social concern. I feel pride in mentioning that the Institution is situated in the home Taluka of the Great Saint Shri Sant Gadge Baba. The holy person was born in a small village "Shendgaon" Tq. Daryapur, on 23 February 1876 He devoted all his life for the advocacy and propaganda of eradication of illiteracy, poverty and superstitious through his "Bhajans". He imbibed in people the importance of education. So, he is known as "Chalte Phirte Vidyapith" (Mobile University). Sant Gadge Baba was not educated but has vision and knowledge.

The Janvikas Shikshan Sanstha, Yeoda established the college with the vision to become a part of the fulfillment of the dream of Sant Gadge Baba. The college is situated in the western region of Vidharbha, 70 kms. away from Amravati and Akola Districts and affiliated to Sant Gadge Baba Amravati University, Amravati. The institute is near "Melghat Tiger Reserved Forest". The college offers undergraduate courses in two streams Arts and Commerce. We can proudly say that it has indeed grown from a seedling into a big tree that has not only sheltered thousands of youngsters but also molded them into great personalities. Since a large number of students come from an economically weaker section of society, we try to imbibe in them good values, so that they become responsible citizens of our country. The college aims to cater to the academic excellence of the students by providing them with facilities to develop their inherent talents. It has institutionalized several best practices through a mechanism of quality and experienced faculty, mentoring, students' feedback, alumni, and Parent Teacher Association.

The college campus is spread over four acres. The college provides a vibrant environment for students to develop their personality through co-curricular activities; various departments also organize Study-Tours and excursions.

The present exercise of preparing for NAAC, standing for an accreditation is seen as an opportunity for the entire college. Commonly to reminisce and recall all that has gone by, especially in the past period to rededicate ourselves to the mission of offering quality higher education to the masses in this region of our great motherland.

Reference - [https://accy.ac.in/pages/principals\\_desk.php](https://accy.ac.in/pages/principals_desk.php)



## **Vision**

We strongly believe in molding students into ideal, responsible and productive citizens dedicated to Nation. While imparting need-based education, we enrich core values like nationality, honesty, quality, rule following and cleanliness. The same, we cherish our aims and objectives.

## **Mission**

Establishment and function of the college are aimed at achieving national goal. This is not a mere act of social service, rather a task dedicated to a national duty. We believe that proper education can develop cultured, intellectual, self-reliant students committed for nation. Keeping students at focal point, the institute chalks out its policies. The institution has a firm belief that students have tremendous potential. If it is channelized in the right direction, we can find solutions to many a problem. Let us join together in our humble endeavor of drawing our Godly students in the national stream so as to take India at the highest pinnacle of glory in the world.

**Reference:** [https://accy.ac.in/pages/vision\\_mission.php](https://accy.ac.in/pages/vision_mission.php)



## Chapter 02: Green Audit

The process of assessing the environmental impact of an organization, process, project, product, etc. Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The “Green Audit” aims to analyze environmental practices within and outside the 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 Institute whose exercises can cause risk to the health of inhabitants and the environment. Green audit can be one of the initiatives for such institutes to account their “*energy conservation, water resource use as well as wastewater, E-waste, solid waste generation, biodiversity, rainwater harvesting, waste recycling (solid/liquid waste management, e-waste management), carbon neutral, green practices, social aspects*”. The Green Audit process can play an important role in promotion of environmental awareness and sensitization about resource use. It can create consciousness towards ecological values and ethics. Through Green Audit, one gets direction as to how to improve the condition of environment and society.

The National Assessment and Accreditation Council (NAAC), which is an autonomous body funded by the University Grants Commission of Government of India, has made ‘Environmental Consciousness’ mandatory criterion (Criterion VII) for grading educational institutes.

### NAAC criteria VII Environmental Consciousness:

Universities are playing a key role in the development of human resources worldwide. Higher education institutes on campus run various activities with the aim to percolate the knowledge along with practical dimension among the society. Likewise, different technological problems higher education institutes also try to give solutions for issues related to environment. Different types of evolutionary methods are used to assess the problem concerning the environment. It includes Environmental Impact Assessment (EIA), Social Impact Assessment (SIA), Carbon Footprint Mapping, Green audit etc. The National Assessment and Accreditation Council (NAAC) which is a self-governing organization that declares the institutions as Grade according to the scores assigned at the time of accreditation of the institution. Green Audit has become mandatory procedure for educational institutes under Criterion VII of NAAC. The intention of the green audit is to upgrade the environmental condition inside and around the institution. It is performed by considering environmental parameters like water and wastewater accounting, energy conservation, waste management, air, noise monitoring etc. to make the institution eco-friendlier. Students are the major strength of any academic institution. Practicing green actions in any educational institution will inculcate the good habit of caring for natural resources in students. Many environmental activities like plantation and nurturing saplings and trees, Cleanliness drives, Bird watching camps, no vehicle day, Rainwater harvesting, etc. will make the students good citizen of the country. Through Green Audit, higher educational institutions can ensure that they contribute towards the reduction of Global warming through Carbon Footprint reduction measures.

### Goals of Green audit:

Institute has conducted a green audit with specific goals as:

- Identification and documentation of green practices followed by Institute.
- Identify strengths and weaknesses in green practices.
- Conduct a survey to know the ground reality about green practices.
- Analyze and suggest solutions for problems identified from survey.
- Assess facility of different types of waste management
- Increase environmental awareness throughout campus.
- Increase social awareness throughout campus.
- Identify and assess environmental risk.
- Motivates staff for optimized sustainable use of available resources.



- The long-term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issues before they become problems.

### **Scope of Work:**

The purpose of the audit is to ensure that the practices followed on the campus are in accordance with the Green Policy adopted by the institute. With this in mind, the specific objectives of the audit were to evaluate the adequacy of the management control framework of Environment and Social Sustainability as well as the degree to which the Institute are in compliance with the chapter 7 of “*National Assessment and Accreditation Council (NAAC) - Manual for Affiliated/Constituent UG & PG Colleges*”. Therefore, the main objective of this green audit is to get a third-party verification on the quality of various natural / social aspects and to evaluate the opportunities for improvement, possible best practices.

### **Objectives:**

The main objective of this green audit is to assess the environmental quality, social awareness and the management strategies being implemented on the campus. The specific objectives are:

- To identify and analyze significant environmental issues.
- To monitor environmental management practices.
- To monitor social awareness practices
- To examine the current practices that can impact the environment.
- To create environment and social awareness among the various stakeholders of the Institute.
- To prepare a Green Audit Report on green practices followed by different Departments, support services and administration.
- To prepare a checklist of flora and fauna diversity in and around the college campus.
- To find out various sources of organic and solid waste generation and mitigation possibilities.
- To suggest sustainable energy usage and water conservation practices.
- Continuous assessment for betterment in performance in green practices and its evaluation.

### **Methodology**

To perform green audit, the methodology included different techniques such as 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 area to summaries the present status of environment and social management in the campus:

- Onsite field visits were conducted by the Green Audit Team
- Enquiries were conducted amongst different stakeholders to find out about the various components in connection with water use, energy consumption and waste disposal, biodiversity, renewable energy use, carbon footprint, social aspects etc.
- The water quality analysis was done using standard protocols.
- Air quality analyses of the college campus were carried out using standard protocol.
- The noise levels were measured using a Sound Level Meter at selected sampling stations during the daytime within the campus.
- Lux measurement was done at the classroom, library, offices and laboratories.
- Electricity consumption and management
- Water consumption and management
- Waste management
- Biodiversity status of the campus



## Chapter 03: Target Areas of Green Audit

### Environmental Aspects:

#### 1. Water

Water which is precious natural resource available with fixed quantum. The availability of water is decreasing due to increasing population of nation, as per capita availability of utilizable water is going down. Due to ever rising standard of living of people, industrialization, urbanization, demand of fresh water is increasing day by day. The unabated discharge of industrial effluent in the available water bodies is reducing the quality of these ample sources of water continuously. Hence, the national mission on water conservation was declared by the then Hon. Prime Minister Narendra Modi as 'Jal Shakti Abhiyan' and appealed to all citizens to collectively address the problem of water shortage, by conserving every drop of water and suggested for conducting water audit for all sectors of water use.

Water assessment can be defined as a qualitative and quantitative analysis of water consumption to identify means of reducing, reusing and recycling of water. Water assessment is nothing but an effective measure for minimizing losses, optimizing various uses and thus, enabling considerable conservation of water in irrigation sector, domestic, power and industrial as well. A water assessment is a technique or method which makes possible to identify ways of conserving water by determining any inefficiencies in the system of water distribution. The measurement of water losses due to different uses in the system or any utility is essential to implement water conservation measures in such an establishment. Please find below reference for permissible limit of Drinking Water as per Indian Standard Drinking Water — Specification (Second Revision) ICS13.060.20

[https://cpcb.nic.in/wqm/BIS\\_Drinking\\_Water\\_Specification.pdf](https://cpcb.nic.in/wqm/BIS_Drinking_Water_Specification.pdf)

**Table 1 Organoleptic and Physical Parameters**  
(Foreword and Clause 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to Part of IS 3025	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Colour, Hazen units, <i>Max</i>	5	15	Part 4	Extended to 15 only, if toxic substances are not suspected in absence of alternate sources
ii)	Odour	Agreeable	Agreeable	Part 5	a) Test cold and when heated b) Test at several dilutions
iii)	pH value	6.5-8.5	No relaxation	Part 11	—
iv)	Taste	Agreeable	Agreeable	Parts 7 and 8	Test to be conducted only after safety has been established
v)	Turbidity, NTU, <i>Max</i>	1	5	Part 10	—
vi)	Total dissolved solids, mg/l, <i>Max</i>	500	2 000	Part 16	—

NOTE — It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected.

#### 2. Air

Air quality in the academic institute is very important for the health of the students, faculty and staff of the institute. The air pollution sources in the college campus are wind, storm, pollen grains, natural dust, vehicular emissions, fire and laboratory fumes etc. Therefore, air quality assessment in the college campus is necessary.





Reference: [https://cpcb.nic.in/uploads/National\\_Ambient\\_Air\\_Quality\\_Standards.pdf](https://cpcb.nic.in/uploads/National_Ambient_Air_Quality_Standards.pdf)

### 3. Noise

Noise pollution is unwanted and unpleasant sound which can deteriorate human health and other living organisms present in the Environment. At workplace machines, traffic, vehicles create occupational noise. Employees and occupants are exposed to this harmful noise. Due to this occupant can face many health problems such as headache, hearing impairment, hypertension, heart problem, annoyance and sleep disorder. Noise Pollution Monitoring process is a part of Environmental Monitoring & Testing as noise pollution is also increasing exponentially in recent years. Noise intensity distracts the day today working in college campus. Noise intensity is measured in dB. Permission limit as CPCB and WHO guideline is as below.

Reference: <https://cpcb.nic.in/who-guidelines-for-noise-quality/>

*In WHO noise quality guidelines, values are summarized with regard to specific environments and effects. For each environment and situation, the guideline values take into consideration the identified health effects and are set, based on the lowest levels of noise that affect health (critical health effect). Guideline values typically correspond to the lowest effect level for general populations, such as those for indoor speech intelligibility. Noise guideline values are for the onset of health effects from noise exposures.*

Specific Environment	Time Base (hours)	Standard limits as per WHO guidelines	
		LAeq [dB]	LAm <sub>ax</sub> , fast [dB]
School classrooms and pre-schools, indoors	During class	35	-
School, playground outdoor	During play	55	-

### 4. Energy

Consumption of energy helps in understanding the success towards green environment. Lesser the consumption of energy more contribution the environment is. Electricity can be used efficiently by replacing CFL bulbs and tube lights with LED lamps and fluorescent tubes wherever possible and use of LED screens in place of CRT. Star rated Air conditioners should be placed in place of old air conditioners. Efficiency of air conditioners should be increased by minimizing the leakage using through open doors and cupboards of the room. Infrastructural changes that allow maximum natural light but minimizes heat in-grace help in reducing the use of electricity. Simple practices like cleaning skylights and lamps will increase the luminosity. There should not be any idle energy consumption.

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances and vehicles. Energy use is clearly an important aspect of campus sustainability.

The Standards & Labelling Programme is one of the major thrust areas of BEE. A key objective of this scheme is to provide the consumer an informed choice about the energy saving and thereby the cost saving potential of the relevant marketed product. The scheme targets display of energy performance labels on high-energy end-use equipment & appliances and lays down minimum energy performance standards.

Presently, S&L program covers star rating for 26 appliances/equipment. List of the appliances covered under the ambit of Star Labelling is as given below:

Reference: <https://beeindia.gov.in/content/standards-labeling>



For Lighting systems in schools

Reference: [https://www.partnershipsforschools.org.uk/documents/Design/SSLD\\_4\\_Lighting\\_systems.pdf](https://www.partnershipsforschools.org.uk/documents/Design/SSLD_4_Lighting_systems.pdf)

## 5. Carbon Footprint

Carbon footprint is the total amount of Green House Gases (GHGs) emitted in terms of carbon dioxide by a person, institute, company, state or country. Carbon footprint is typically given in tons of CO<sub>2</sub> equivalent per year. For calculation of carbon footprint the basic data regarding direct and indirect sources of emission of Green House Gases is needed. How we get around and commute to and from college each day has an impact on the environment through the emission of greenhouse gases into the atmosphere by the burning of fossil fuels (such as petrol). The most common greenhouse gases are carbon dioxide, water vapor, methane, nitrous oxide and ozone. Of all the greenhouse gases, carbon dioxide is the most prominent greenhouse gas, comprising 402 ppm of the Earth's atmosphere. The release of carbon dioxide gas into the Earth's atmosphere through human activities is commonly known as carbon emissions.

Reference: <https://www.carbonfootprint.com/> and <https://ghgprotocol.org/standards>

Emission factor reference:

CEA: <https://cea.nic.in/cdm-co2-baseline-database/?lang=en>  
[https://cea.nic.in/wp-content/uploads/baseline/2023/01/version\\_18.zip](https://cea.nic.in/wp-content/uploads/baseline/2023/01/version_18.zip)

DEFRA: <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021>

## 6. Waste Management

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, glass, dust etc. 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 present Prime Minister of India Sri Narendra Modi launched 'Swachh Bharat Abhiyan' (Clean India Mission) on 2<sup>nd</sup> October 2014. In this mission, the proper use of dust/waste bins is one of the major priorities. For the implementation of this mission, collective mass effort is necessary. For proper segregation and management, proper use of waste bins is the only solution for waste management purpose in the college campuses.

E waste management reference: [https://cpcb.nic.in/uploads/Projects/E-Waste/e-waste\\_amendment\\_notification\\_06.04.2018.pdf](https://cpcb.nic.in/uploads/Projects/E-Waste/e-waste_amendment_notification_06.04.2018.pdf)

<https://mpcb.gov.in/waste-management/electronic-waste>



Solid waste management reference: <https://www.mpcb.gov.in/waste-management/municipal-solid-waste>

[https://www.mpcb.gov.in/sites/default/files/solid-waste/msw\\_rules\\_2016.pdf](https://www.mpcb.gov.in/sites/default/files/solid-waste/msw_rules_2016.pdf)

Biomedical waste management: <https://mpcb.gov.in/waste-management/biomedical-waste>

## 7. Green Belt/ Biodiversity status

To conserve this biodiversity, our first need is to learn about the existing diversity of the place. Unless we know whom to conserve, we will not be able to plan proper conservation initiatives. Also, it is important to understand the biodiversity of an area so that the local people can be aware of the richness of biodiversity of the place they are living in and their responsibility to maintain that richness.

This study allows us to understand the faunal and floral diversity of the surrounding areas of the college premises and their interrelationship.

Reference: <https://www.worldwildlife.org/pages/what-is-biodiversity>

*Biodiversity is all the different kinds of life you'll find in one area—the variety of animals, plants, fungi, and even microorganisms like bacteria that make up our natural world. Each of these species and organisms worktogether in ecosystems, like an intricate web, to maintain balance and support life. Biodiversity supports everything in nature that we need to survive food, clean water, medicine, and shelter.*

### Social Aspects:

“Social Auditing is a process that enables an organization to assess and demonstrate its social benefits and limitations. It is a way of measuring the extent to which an organization lives up to the shared values and objectives it has committed itself to. Social auditing provides an assessment of the impact of an organization’s non-financial objectives through systematically and regularly monitoring its performance and the views of its stakeholders.”

#### A. Health and Safety

The very purpose of greening of educational campuses is to ensure that the student’s study and grow up in a healthy environment, giving out the best of their physical and intellectual contributions to the society. The method for assessing the physical wellbeing of the educational institution has been decided as follows:

- i. Examine the prevalence of sickness leave, if there are any.
- ii. Examine the first aid and medical facilities available for resident students and staff.
- iii. Evaluate the atmospheric quality, drainage systems and land pollution – if any within the campus; and assess the achievements of students in sports and games, especially in inter collegiate and inter- Institute contests.

[https://www.ugc.ac.in/pdfnews/4006064\\_Safety-of-Students-Guidelines.pdf](https://www.ugc.ac.in/pdfnews/4006064_Safety-of-Students-Guidelines.pdf)

[https://www.education.gov.in/sites/upload\\_files/mhrd/files/SOP\\_Guidelines\\_for\\_reopening\\_schools.pdf](https://www.education.gov.in/sites/upload_files/mhrd/files/SOP_Guidelines_for_reopening_schools.pdf) [https://www.ugc.ac.in/pdfnews/4613471\\_Guidelines.pdf](https://www.ugc.ac.in/pdfnews/4613471_Guidelines.pdf)



## B. Accessibility to Divyangjan and Gender Justice

Right of Persons with Disabilities Act, 2016 prohibits discrimination against individuals with physical and mental disabilities. Institute shall be is against all kinds of discrimination on any grounds including disability. Institute shall intend to advance a comprehensive and inclusive teaching and learning environment in which incapacitated students and employees are not distraught or treated unfavourably. The institute must aim to design its programs, administrations, and activities accessible to the students. All the authorities of the institute shall strive in order to extend a help hand towards the differently abled so as to make sure about the Benefits of grounds programs, administrations, and activities.

- Institute shall have Inclusive Culture to avoid discrimination, exploitation and exclusion of disabled Students and Staff from all spheres of work and education.
- Institute shall create suitable regulatory mechanism for effective delivery of services to Disable Students and Staff of the institute.
- Institute shall ensure implementation of all legislations with respect to persons with disabilities.
- To provide accessible and inclusive education at the institute.
- Institute shall ensure full participation of persons with disabilities and to provide them the equal opportunities for development.
- Institute shall provide necessary budget allocation to achieve above objectives.

### Reference:

[https://www.ugc.ac.in/pdfnews/1604485\\_person-with-disabilities-Uni.pdf](https://www.ugc.ac.in/pdfnews/1604485_person-with-disabilities-Uni.pdf)

[https://www.ugc.ac.in/pdfnews/7348678\\_Guidelines\\_Exam-Divyangjan-JAN-2019.pdf](https://www.ugc.ac.in/pdfnews/7348678_Guidelines_Exam-Divyangjan-JAN-2019.pdf)

<https://disabilityaffairs.gov.in/content/page/guidelines.php>

<https://disabilityaffairs.gov.in/upload/uploadfiles/files/Corrigendum-08-02-19.pdf>

[https://disabilityaffairs.gov.in/upload/uploadfiles/files/Guidelines-29\\_08\\_2018.pdf](https://disabilityaffairs.gov.in/upload/uploadfiles/files/Guidelines-29_08_2018.pdf)

[https://upload.indiacode.nic.in/showfile?actid=AC\\_CEN\\_25\\_54\\_00002\\_201649\\_1517807328\\_299&type=notific\\_ation&filename=Guidelines%20notification\\_04.01.2018.pdf](https://upload.indiacode.nic.in/showfile?actid=AC_CEN_25_54_00002_201649_1517807328_299&type=notific_ation&filename=Guidelines%20notification_04.01.2018.pdf)

### C. Gender Justice:

Reference: <https://www.un.org/sustainabledevelopment/gender-equality/>





## 5 GENDER EQUALITY



### **Goal 5: Achieve gender equality and empower all women and girls.**

*Gender equality is not only a fundamental human right, but a necessary foundation for a peaceful, prosperous and sustainable world.*

*There has been progress over the last decades: More girls are going to school, fewer girls are forced into early marriage, more women are serving in parliament and positions of leadership, and laws are being reformed to advance gender equality. Despite these gains, many challenges remain: discriminatory laws and social norms remain pervasive, women continue to be underrepresented at all levels of political leadership, and 1 in 5 women and girls between the ages of 15 and 49 report experiencing physical or sexual violence by an intimate partner within a 12-month period. The effects of the COVID-19 pandemic could reverse the limited progress that has been made on gender equality and women's rights. The coronavirus outbreak exacerbates existing inequalities for women and girls across every sphere – from health and the economy, to security and social protection. Women play a disproportionate role in responding to the virus, including as frontline.*

*healthcare workers and careers at home. Women's unpaid care work has increased significantly as a result of school closures and the increased needs of older people. Women are also harder hit by the economic impacts of COVID-19, as they disproportionately work in insecure labour markets. Nearly 60 per cent of women work in the informal economy, which puts them at greater risk of falling into poverty. The pandemic has also led to a steep increase in violence against women and girls. With lockdown measures in place, many women are trapped at home with their abusers, struggling to access services that are suffering from cuts and restrictions. Emerging data shows that, since the outbreak of the pandemic, violence against women and girls – and particularly domestic violence – has intensified.*

### **C. Child Labor-**

*Article 24 of the Indian constitution clearly states that, "No child below the age of fourteen years shall be employed to work in any factory or mine or employed in any hazardous employment." The Child Labour (Prohibition and Regulation) Act of 1986 designates a child as a person who has not completed their 14th year of age. It aims to regulate the hours and the working conditions of child workers and to prohibit child workers from being employed in hazardous industries.*

*The government has enacted the Child Labour (Prohibition & Regulation) Amendment Act, 2016 which came into force w.e.f. 1.9.2016. The Amendment Act completely prohibits the employment of children under 14 years. The amendment also prohibits the employment of adolescents in the age group of 14 to 18 years in hazardous occupations and processes and regulates their working conditions where they are not prohibited. The amendment also provides stricter punishment for employers for violation of the Act and making the offence of employing any child or adolescent in contravention of the Act by an employer as cognizable. In order to achieve effective enforcement of the provisions of the Act, the amendment empowers the appropriate Government to confer such powers and impose such duties on*



*a District Magistrate as may be necessary. Further, the State Action Plan has been circulated to all the States/UTs for ensuring effective implementation of the Act.*

*Government of India has notified the amendment in the Child Labour (Prohibition and Regulation) Central Rules after extensive consultation with the stakeholders. The Rules provide broad and specific framework for prevention, prohibition, rescue and rehabilitation of child and adolescent workers. It also clarifies issues related with help in family and family enterprises and definition of family with respect to child, specific provisions have been incorporated in rules. Further, it also provides for safeguards of artists who have been permitted to work under the Act, in terms of hours of work and working conditions. The rules provide for specific provisions incorporating duties and responsibilities of enforcement agencies in order to ensure effective implementation and compliance of the provisions of the Act.*

**Reference:**

1. [Child Labour \(Prohibition and Regulation\) Amendment Rules, 2017](#)
2. [Child Labour \(Prohibition & Regulation\) Amendment Act, 2016](#)
3. [Child Labour \(Prohibition and Regulation\) Act 1986](#)
4. [Constitutional Provisions for Child Upliftment](#)
  - i. [Article 21 A: Right to Education](#)
  - ii. [Article 24: Prohibition of employment of children in factories, etc.](#)
  - iii. [Article 39: The State shall, in particular, direct its policy towards securing](#)
5. [Legislative Provisions Prohibiting and Regulating Employment of Children](#)
6. [ILO core conventions related to Child Labour](#)
7. [National Policy on Child Labour](#)
  - i. [Policy](#)
  - ii. [Right to Education Bill](#)



## Chapter 04: Audit Framework and detailed findings

The following audit framework is used for conducting Green Audit in 2022-2023. The framework also lists the findings and observations for every criterion.

Checklist Question	Assessment																		
<b>Organizational Level Efforts</b>																			
Do you have a campus green team?	<p>Yes, the establishment of the Environmental Conservation and Protection Committee comes with a specific mission: to foster awareness and promote a culture of responsible environmental stewardship throughout the institute.</p> <table border="1"> <thead> <tr> <th>S. N</th> <th>Name</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr. Yashowardhan G. Singh</td> <td>Principal</td> </tr> <tr> <td>2</td> <td>Dr. Mohammed Azeemuddin</td> <td>IQAC Coordinator</td> </tr> <tr> <td>3</td> <td>Dr. N. W. Hambarde</td> <td>Member</td> </tr> <tr> <td>4</td> <td>Dr. Sayyad Sajjad Sayyad Mushtaq</td> <td>Member</td> </tr> <tr> <td>5</td> <td>Dr. Sandeep Dongare</td> <td>Member</td> </tr> </tbody> </table>	S. N	Name	Designation	1	Dr. Yashowardhan G. Singh	Principal	2	Dr. Mohammed Azeemuddin	IQAC Coordinator	3	Dr. N. W. Hambarde	Member	4	Dr. Sayyad Sajjad Sayyad Mushtaq	Member	5	Dr. Sandeep Dongare	Member
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Have you established an environmental mission/vision for your campus?	<p>This year, the institute has initiated an effort to conduct green campus audits. The institutional environment and green initiatives are confirmed through beyond the campus environmental promotional activities.</p>																		
Have you set environmental goals for your campus?	<p>Yes, our main goal is to adopt and promote eco-friendly practices to minimize our environmental impact and improve overall environmental performance. Accordingly, during discussion with the Green Committee, the audit team noted below upcoming initiatives.</p> <ol style="list-style-type: none"> <li>1. MOU with vendor for recycling of E-waste management</li> <li>2. Installation of Solar PV module to achieve net zero target</li> <li>3. 100 % coverage of Drip Irrigation for all plantation places on campus.</li> <li>4. Rainwater Harvesting for 100 % Roof Coverage Area.</li> <li>5. Construction and maintenance of Compost pit for the proper management of garden waste</li> <li>6. Drinking water facility</li> </ol>																		



<p>Do you encourage sustainable behavior via?</p> <ul style="list-style-type: none"> <li>➤ education campaigns?</li> <li>➤ Poster, placard, message, stickers</li> <li>➤ contests?</li> <li>➤ awards?</li> </ul>	<p>The institution has implemented several initiatives under the National Service Scheme (NSS) program, including the coordination of plantation drives and cleanliness campaigns. Annually, the NSS team takes charge of a tree plantation program, encompassing both on-campus and off-campus locations. Furthermore, tree plantation efforts are extended to N.S.S Special camps, emphasizing the institution's commitment to environmental sustainability.</p> <p>During these campaigns, students actively raise awareness about various environmental and social issues through engaging activities such as street plays and messages. Through street plays, students creatively convey important messages pertaining to the environment and social issues, captivating the attention of the audience with theatrical performances that highlight key concerns. Additionally, students use various forms of communication, including messages, to disseminate information and promote awareness. These initiatives aim not only to inform but also to inspire positive action and change within the community, fostering a sense of responsibility and consciousness about critical issues affecting the environment and society.</p> <p>Furthermore, the institute has displayed stickers and boards are in campus at various locations to restrict and reduce the use of plastics and to encourage the use of sustainable and eco-friendly alternatives.</p>
<p>Are sustainability concepts and environmental literacy integrated across disciplines between the environment, society?</p>	<p><b>1. ENVIRONMENTAL AWARENESS:</b> The college, through its Environment Committee and various departments sensitizes the students to the preservation of the ecosystem and environment. Students are also sensitized to adopt green practices. conservation of natural resources, alternative sources of energy and renewable energy.</p> <p><b>2. PLASTIC-FREE CAMPUS:</b> The college promotes No use of plastic on campus. The staff and students are motivated to avoid the use of single-use plastic and non-degradable products.</p> <p><b>3. CLEANLINESS/PLANTATION DRIVE:</b> Students consistently and regularly participate in the cleanliness drives on and off-campus on several occasions including Mahatma Gandhi Jayanti on October 02 and Sant Gadge Baba Jayanti on February 23, every year. Moreover, students are encouraged to actively participate in tree plantation drives.</p> <p><b>4. LANDSCAPING WITH TREES AND PLANTS:</b> NSS team organizes the plantation program every year. In college campus proper care is taken of the botanical garden and old trees.</p>
<p>Are staff encouraged to teach sustainability concepts, including the relationship</p>	<p>Yes, Environmental sustainability is an integral part of the curriculum across all streams of education at this institution. This approach ensures that students are equipped with the knowledge and skills to understand and address the critical environmental challenges facing our planet.</p>





<p>What are the environmental and social awareness programs conducted on the campus?</p>	<p>The audit team reviewed the awareness program via celebrations of several days by institute under NSS.</p> <ul style="list-style-type: none"> <li>• All National &amp; International Days are celebrated on the campus. Such as "UNESCO'S INTERNATIONAL DAYS CELEBRATION             <ol style="list-style-type: none"> <li>1. International Tourism Day (27 September)</li> <li>2. International Yoga Day (21 June)</li> <li>3. World Population Day (11 July)</li> <li>4. World AIDS Day (1 December)</li> <li>5. International Women's Day (8 March).</li> </ol>             Details are uploaded on college website <a href="https://accy.ac.in/pdf/Best%20Practices%202021-22.pdf">https://accy.ac.in/pdf/Best%20Practices%202021-22.pdf</a> </li> <li>• The environmental and social activities are conducted in the institute to create awareness about environmental and social issues.             <ol style="list-style-type: none"> <li>1. Plastic Free Village Abhiyan</li> <li>2. Mazi Vasundhara</li> <li>3. Financial Literacy Program (Online)</li> <li>4. Meri mati mera desh initiative</li> <li>5. Voter's awareness rally</li> <li>6. Suicide Prevention Day</li> <li>7. Water conservation awareness</li> <li>8. Cyber Crime Awareness Program</li> <li>9. Reading Inspiration Day Program</li> <li>10. Unnat Bharat Abhiyan Program</li> <li>11. Aatmanirbhar Bhart Program</li> <li>12. International Women's Day</li> </ol> </li> </ul>
<p>Does it include key stakeholders?</p>	<p>Yes, below key stakeholders are recognized by green campus committee.</p> <ul style="list-style-type: none"> <li>• Administration</li> <li>• Staff</li> <li>• Students</li> <li>• Stakeholders</li> </ul>
<p>Does it meet regularly?</p>	<p>Yes, frequency of meeting is once or twice in a year</p>
<p>Does Institute participate in National and Local Environmental Protection Movement?</p>	<p>Yes, Institute is participated in Maharashtra Pollution Control Board &amp; NGOs.</p>



<p>Is it empowered to recommend projects to campus leadership?</p>	<p>The entire campus is illuminated with LED lights, which not only provide sufficient lighting but also help conserve energy. Also has installed solar lamps in premises. To further enhance natural lighting, the campus has been designed with large windows that allow ample sunlight to penetrate, reducing the need for artificial lighting during daytime hours.</p> <p>Additionally, the institute management has implemented some eco-friendly initiatives, such as the construction of vermicomposting. These projects not only promote sustainability but also demonstrate the institute's commitment to preserving the environment.</p>																										
<b>Energy Conservation</b>																											
<p>Have you done an energy audit? (Personal, classroom, campus)</p>	<p>No, this is the first time that, college conducted green campus Audit through external agency.</p>																										
<p>List ways that you use energy in your Institute. (Electricity, electric stove, kettle, microwave, LPG, firewood, Petrol, diesel and others)</p>	<p>Below energy sources and application observed.</p> <p>Electricity – Lamps, fan, pump, computers, etc.</p> <p>LPG – gas stove at canteen</p>																										
<p>Do you track your energy use and cost? (Personal, classroom, campus)</p>	<p>Yes, institute keep the track of monthly electricity bill, LPG cylinder consumption.</p> <table border="1" data-bbox="568 1357 1190 1928"> <thead> <tr> <th>Month-Year</th> <th>Unit consumed from MSEDCL. (KWh)</th> </tr> </thead> <tbody> <tr><td>June2022</td><td>266</td></tr> <tr><td>July2022</td><td>244</td></tr> <tr><td>August2022</td><td>270</td></tr> <tr><td>September2022</td><td>244</td></tr> <tr><td>October2022</td><td>200</td></tr> <tr><td>November2022</td><td>255</td></tr> <tr><td>December2022</td><td>288</td></tr> <tr><td>January2023</td><td>277</td></tr> <tr><td>February2023</td><td>266</td></tr> <tr><td>March2023</td><td>288</td></tr> <tr><td>April2023</td><td>290</td></tr> <tr><td>May2023</td><td>292</td></tr> </tbody> </table> <p>LPG Consumption = 1 cylinders (April 2022- March2023)</p>	Month-Year	Unit consumed from MSEDCL. (KWh)	June2022	266	July2022	244	August2022	270	September2022	244	October2022	200	November2022	255	December2022	288	January2023	277	February2023	266	March2023	288	April2023	290	May2023	292
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January2023	277																										
February2023	266																										
March2023	288																										
April2023	290																										
May2023	292																										



	HSD Consumption = 5 lit (April2022- March2023)
Do you offer energy conservation lessons and programs?	Yes, Environmental sustainability is the dedicated subject in each stream of education. Environmental subjects are compulsory for all II-year students.
Do you encourage responsible energy use via? ➤ education campaigns? (Lights Off, Power Down, Energy Conservation Month ➤ incentives? ➤ contests?	Yes, during audit, we observed the energy saving/ power off stickers at very few locations.  The institute should take the initiative to display instructions, boards, and notices around the campus, encouraging the reduction of electricity consumption. These efforts will demonstrate the college's commitment to sustainability and creating an eco-friendlier environment.
Do you use natural lighting when possible	Yes, the audit team observed good application of daylight at classroom and library. The planning and construction of the college's office and classrooms have resulted in 80% of them being exceptionally well-ventilated and illuminated with natural light. The use of daylight has been well-implemented in all areas of the campus, including classrooms, library, and offices. These design choices not only create a comfortable and productive learning environment but also contribute to the college's efforts to promote sustainable and energy-efficient practices.
Do you use task lighting instead of overhead area lighting?	Mostly day light is used at classroom and offices.
Have you installed lighting occupancy sensors?	At present, occupancy sensors for lighting are not yet installed on the premises.
Do you use natural ventilation/windows when possible?	Most of the areas of the college, including classrooms, administrative buildings, the library, laboratories, washrooms, and corridors, are designed to maximize natural ventilation and light. The presence of windows and cross ventilation across the campus ensures a constant flow of fresh air and natural light, creating a comfortable and healthy environment for students, staff, and visitors alike. These design elements not only enhance the aesthetic appeal of the campus but also promote sustainable practices by reducing the need for artificial lighting and air conditioning.
Have you enabled the power management settings on your	Yes, all computers are kept in sleep mode, when not in use, screen savers are disabled, power off label, when not in use.



<p>computers/monitors/all-in-one machines?</p>	
<p>Do you purchase ENERGY STAR® certified equipment?</p>	<p>Yes, The college is dedicated to advocating for the adoption of energy-efficient lighting and appliances, including LED lamps. Through the promotion of these products, the college not only minimizes its energy consumption and carbon footprint but also realizes cost savings on utility bills. This initiative is in harmony with the college's broader objective of championing sustainability and actively working towards diminishing its environmental impact.</p>
<p>Have you maximized the efficiency of your refrigerators/freezers by?</p> <ul style="list-style-type: none"> <li>➤ unplugging mini refrigerators/freezers and using communal ones?</li> <li>➤ setting energy-efficient temperatures for your refrigerators (36°- 40° F) and freezers (0°- 2° F)?</li> <li>➤ ensuring refrigerators/freezers properly seal?</li> <li>➤ keeping the refrigerator/freezer full?</li> <li>➤ cleaning condenser coils on the back of the refrigerator/freezer?</li> </ul>	<p>Not applicable</p>
<p>How many LED bulbs has your Institute installed? Mention use (Hours used/day for how many days in a month)</p>	<p>LED = 29 lamps (Average 5 hours per day, approx. 24 days in month) It's recommended that to opt for energy efficient LED lamps / tube lights everywhere.</p>
<p>How many fans are installed in your Institute? Mention use (Hours used/day)</p>	<p>36 Ceiling fans (Average 5 hours per day, approx. 24 days in month) It's recommended that to install BEE 5star rating EE Ceiling fan.</p>



for how many days in a month	
How many air conditioners are installed in your Institute? Mention use (Hours used/day, for how many days in a month)	NA
How many computers are there in your Institute? Mention the use (Hours used/day for how many days in a month)	13 computers (Average 5 hours per day, approx. 24 days in month)
How many photocopiers/printers are installed by your Institute? (Hours used/day for how many days in a month).	3 printers (Average 30 min per day, approx. 24 days in month)
How many scanners are installed by your Institute? (Hours used/day for how many days in a month).	03 scanners (Average 30 min per day, approx. 24 days in month)
How many inverters has your Institute installed?  Mentions use (Hours used/day for how many days in a month)	Institute is having battery bank and inverter. There are 4 inverters installed on campus.
How many electrical equipment are used in different labs of your Institute? Mention the use (Hours used/day for how many days in a month)	The Institute has only a computer lab. Computer: 11 Xerox / Printer : 03 (Average 5 hours per day, approx. 24 days in month)
How many boards displayed for saving energy awareness?	Boards promoting energy-saving awareness are currently displayed within the campus. The institute is advised to install "switch off" boards near every electrical panel in the college.



Renewable Energy	
<p>Are any alternative energy sources/nonconventional energy sources employed / installed in your Institute? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.</p>	<p>The institute has taken the initiative to install solar streetlamps across its premises. These solar lamps utilize clean and renewable energy from the sun to provide illumination. These lamps have been strategically placed to optimize sunlight exposure and ensure efficient charging of their internal batteries. By harnessing solar power, the institute aims to reduce its dependence on conventional electricity sources and contribute to sustainable and environmentally friendly practices.</p> <p>Currently, the college has not yet installed rooftop solar PV modules. However, there are plans in the pipeline to do so in the future. By adopting this sustainable technology, the college can generate clean energy and reduce its dependence on non-renewable sources of energy. This forward-thinking approach demonstrates the college's commitment to reducing its carbon footprint and promoting sustainable practices.</p>
<p>Have you purchased renewable energy certificates for your campus' electricity use?</p>	<p>NIL</p>
Water Conservation	
<p>Have you done a water audit? (Personal, classroom, campus)</p>	<p>The institution must establish a contract with a company to regularly maintain and service the Water Purification System/coolers across the campus. This arrangement is essential for ensuring the ongoing quality of drinking water by conducting routine checks and necessary maintenance.</p> <p>Audit team measured the TDS and PH of drinking water. Please refer annexure for reading.</p>
<p>What are the sources of water in your Institute?</p>	<p>The major water source for institute is borewell.</p> <p>The institute relies on the municipal corporation as its secondary source of water supply. Through a formal arrangement with the local government, the institute receives water for its various needs. This includes water for drinking, sanitation, gardening, and other purposes.</p>
<p>List uses of water in your Institute.</p>	<p>The majority of water usage on campus is attributed to washrooms, drinking fountains, gardening and cleaning.</p> <p>By identifying these areas of high-water consumption, the college can focus its efforts on implementing sustainable practices to reduce its water usage and promote conservation. This approach aligns with the college's broader commitment to environmental stewardship and sustainability.</p>



<p>Do you encourage responsible water use via?</p> <ul style="list-style-type: none"> <li>➤ education campaigns? (Skip the Drip)</li> <li>➤ incentives?</li> <li>➤ contests?</li> <li>➤ awards?</li> </ul>	<p>Yes, the institute applied a few measures for water reuse, reduce and replenish. Rejected water from water cooler filter is used for plants.</p> <p>The Institute also conducts various programmes under the “Save Water, Save Earth Campaign”.</p>
<p>Have you installed low-flow faucets, automatic faucets, and/or faucet aerators?</p>	<p><b>Recommendation:</b> installation low-flow faucets, automatic faucets, and/or faucet aerators is recommended.</p>
<p>Do you use collected rainwater for onsite watering needs?</p>	<p>Yes, the institute currently gathers rainwater through pipes installed on the rooftop at specific locations during the rainy season. The collected rainwater is currently utilized for gardening purposes. However, it is recommended that the institute implement a comprehensive rainwater harvesting system, leveraging the college rooftop effectively. This system not only optimizes the utilization of rainwater but also contributes to recharging the water table, promoting sustainable water management practices.</p>
<p>No. of motors used for pumping water from each well and HP of motor</p>	<p>01 1 ½ HP MOTOR</p>
<p>Quantity of water stored in your overhead water tank. (In liters)</p>	<p>Total 2000Lit. water stored in the overhead water tank.</p>
<p>Where does waste water come from?</p>	<p>From washrooms</p>
<p>Where does the wastewater go?</p>	<p>To the sewage water pipeline</p>
<p>What happens to the water used in your labs? Whether it gets mixed with ground water?</p>	<p>NA</p>
<p>Is there any treatment for the lab water?</p>	<p>NA</p>
<p>No. of water coolers. Amount of water</p>	<p>01 water cooler is observed during audit.</p>



used per day. (In liters)	<p>Approx. daily consumption is about 500 lit.</p> <p><b>Recommendation-</b> To ensure the cleanliness and proper maintenance of water coolers, it is essential for the institute to establish a monthly cleaning and maintenance schedule. This schedule outlines specific tasks and timelines to be followed for drinking water tank and water cooler within the premises.</p> <p>By implementing a monthly cleaning and maintenance schedule, the institute can uphold high standards of cleanliness, ensure the availability of safe and healthy drinking water, and prolong the lifespan of the water coolers. It is also advisable to keep detailed records of the cleaning and maintenance activities performed, including dates, tasks, and any observations or issues encountered, for future reference and accountability.</p>					
No. of toilet, urinals. Amount of water used per day?	<table border="1"> <tr> <td>Gents Urinal</td> <td>Ladies Urinal</td> </tr> <tr> <td>03</td> <td>03</td> </tr> </table>	Gents Urinal	Ladies Urinal	03	03	<p>Approx. 500 lit per day water uses in toilet</p>
Gents Urinal	Ladies Urinal					
03	03					
Amount of water used per day for garden use.	Approx. 500 lit per day.					
Total use of water in each hostel?	NA					
Is there any water used for agricultural purposes?	NA					
Does your Institute harvest rainwater? If yes, how many rainwater harvesting units are there?	<p>Currently, the institute does not have a provision for rainwater harvesting. However, the implementation of a rainwater harvesting system at the institute would demonstrate a commitment to sustainable water management practices, promoting resource conservation, and fostering environmental responsibility.</p>					
How many of the taps are leaky? Amount of water lost per day?	We have not found any leakages from taps.					
Are there signs reminding people to turn off the water? Yes / No	<p>Yes, we have observed a few signs regarding SAVE WATER in the campus.</p> <p>Your campus has displayed signage promoting the conservation of water. This is a positive step towards promoting sustainable practices and preserving our planet's natural resources.</p>					
Are there any waterless toilets?	NA					
How many water fountains are there?	NA					





How often is the garden watered?	Once in day or twice in a week depending on the season, In rainy season no need to water the plants.												
Are there any water saving techniques followed in your Institute? What are they?	The Institute kept turn off sign for water saving. Further rejected water from water cooler filter is reused for gardening purposes. There are no major water intensive activities performed at the institute.  <b>Recommendation-</b> Institute should provide Drip Irrigation system for watering the garden.												
<b>Transport</b>													
Do you provide green transportation infrastructure such as? <ul style="list-style-type: none"> <li>➤ safe, connected, and accessible walkways and pathways?</li> <li>➤ bike paths and/or lanes</li> <li>➤ bike racks</li> <li>➤ green vehicle priority parking? (fuel-efficient, alternative fuel, carpool)</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Vehicles in institute</th> <th style="text-align: left;">Numbers</th> </tr> </thead> <tbody> <tr> <td><b>Cycles</b></td> <td><b>30</b></td> </tr> <tr> <td><b>Two-wheeler</b></td> <td><b>65</b></td> </tr> <tr> <td><b>Four-wheeler</b></td> <td><b>07</b></td> </tr> <tr> <td><b>Buses</b></td> <td><b>00</b></td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p>We have observed carpooling, bike pooling in general. The majority of students travelled by public transport – Bus.</p> <ul style="list-style-type: none"> <li>• <b>Pedestrian-friendly pathways:</b></li> </ul> <p>College has pedestrian friendly pathway and used for entry of students, staff, visitors to office and college campus. The college has special ramps for Divyangjan.</p>	Vehicles in institute	Numbers	<b>Cycles</b>	<b>30</b>	<b>Two-wheeler</b>	<b>65</b>	<b>Four-wheeler</b>	<b>07</b>	<b>Buses</b>	<b>00</b>		
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<b>Buses</b>	<b>00</b>												
Provide details of Institute-owned motorized vehicles? Buses Cars Vans Other Total	NIL												
Specify the type of fuel used by your Institute's vehicles, Diesel /Petrol/CNG/ LPG/ Electric.	NIL												
Do you promote green transportation	Yes, institutes always promote the use of green transportation options to reduce vehicle air pollution.  <b>Use of Bicycles/ Battery powered vehicles:</b>												



options that reduce vehicle air pollution?	Use of bicycle by student and faculty members promoting benefits of cycling and conservation of environment by minimizing fuel pollution.
Do you offer walking/biking field trips?	As part of the NSS program, college students and staff celebrated “No Vehicle Day”, by participating in a cycle rally. Such initiatives are taken by institute.
<b>Indoor and Outdoor Air Quality</b>	
Does Environmental Ambient Air Quality Monitoring conduct by the Institute?	<p>We have measured the ambient air temperature and humidity. Air Quality Index are captured from web site: <a href="https://air-quality.com/place//15adef49?lang=en&amp;standard=naqi_in">https://air-quality.com/place//15adef49?lang=en&amp;standard=naqi_in</a>.</p>
Do you have indoor plants to naturally clean the air?	<p>The audit team noted the presence of indoor plants within the institute, which naturally contribute to the purification of the surrounding air.</p> <p>This not only adds to the aesthetic appeal but also serves the dual purpose of enhancing the overall beauty of the premises while effectively cleansing the air. The deliberate effort to incorporate greenery into the indoor environment aligns with practices that promote a healthier and more sustainable atmosphere within the institute's facilities.</p>
Do you are provided exhaust fans in washrooms and laboratories?	Yes , exhaust fans are installed in all washrooms and labs in the campus to get proper ventilations and clean air.
Do you regularly replace air filters?	NA
Are A/C intake vents at least 10 feet from odor or emission sources (dumpsters, chicken coops,	NA



compost piles, pick-up/drop-off locations	
Does stack monitoring of DG sets conducted by the Institute?	NA
Have you located printers in well-ventilated areas that minimize frequent/repeated exposure to students/staff?	<p>Yes, the Audit team observed printers are located in well-ventilated areas that minimize frequent exposure to students and staff.</p> <p>By placing the printers in well-ventilated areas, the institute prioritizes the health and well-being of individuals using the printing facilities. Adequate ventilation helps to mitigate the potential risks associated with prolonged exposure to printer emissions and odors, such as volatile organic compounds (VOCs) and particulate matter.</p> <p>Furthermore, this approach aligns with occupational health and safety guidelines, promoting a safe working and learning environment. By minimizing frequent exposure, the institute demonstrates its commitment to protecting the health and comfort of students and staff members who regularly interact with the printers.</p> <p>Overall, the deliberate placement of printers in well-ventilated areas showcases the institute's proactive measures to address potential health concerns and enhance the overall printing experience within a safe and comfortable setting.</p>
Do you practice regular housekeeping practices to minimize dust and allergens?	<p>Yes, the institute developed regular housekeeping practice to minimize dust and allergens. Annual Cleaning Contract given to vender.</p> <p><b>Recommendation-</b> Institute needs to improve housekeeping practices in order to minimize dust in classrooms and Labs. It helps to maintain clean air.</p> <p>To ensure a healthy and clean learning environment, it is crucial for institutes to prioritize their housekeeping practices. By implementing effective measures to minimize dust in classrooms and labs, institutes can significantly improve the air quality within their facilities. Regular cleaning and dusting of surfaces, as well as the use of high-efficiency air filters and vacuums, can help to remove and prevent the accumulation of dust particles. Additionally, proper storage and disposal of materials can also contribute to reducing dust levels. By promoting good housekeeping practices, institutes can create a safer and healthier learning environment for students and staff, ultimately enhancing their overall well-being and productivity.</p>
<b>Waste Management</b>	
Have you done a waste audit? (Personal, classroom, campus)	Audit team took the data regarding segregation and disposal of biodegradable, non-biodegradable waste and e waste generated in the campus.



<p>Does your institute generate any waste? If so, what are they</p>	<p>Yes, institute generates different kind of wastes, such as solid waste, Liquid waste, E-waste, biomedical waste etc.</p> <p><b>Please refer annexure.</b></p>
<p>What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)</p>	<p>The Institute doesn't keep a record of every day generated waste.</p> <p>The institute currently lacks a system to record the daily generated waste. To address this gap, it is recommended that the institute initiates the practice of maintaining monthly waste data. This would involve systematically documenting and tracking the quantity and type of waste generated within the institute's premises.</p> <p>By maintaining monthly waste data, the institute can gain valuable insights into its waste generation patterns and trends over time. It enables the identification of areas with higher waste generation, specific waste streams that require attention, and potential opportunities for waste reduction and recycling initiatives.</p> <p>Implementing a monthly waste data maintenance system demonstrates the institute's proactive approach to responsible waste management. It fosters a culture of accountability and provides a foundation for evidence-based decision-making to drive continuous improvement in waste management practices.</p> <p>Overall, maintaining monthly waste data allows the institute to monitor, analyze, and optimize its waste management efforts, leading to enhanced environmental sustainability and resource conservation.</p>
<p>Do you know where your trash goes when it leaves your campus?</p>	<p>Yes,</p> <p>Housekeeping staff are appointed on a monthly basis to keep the campus clean. Garbage is collected regularly and disposed into pits. Extra garbage is collected and handed over to municipal corporation. Dustbins are placed at various places on the campus to collect solid waste separately. Biodegradable solid waste, garden waste, is collected regularly and disposed into the compost pit.</p>
<p>Do you have accessible, consistent zero waste stations set up campus-wide that include all applicable waste disposal options (landfill, compost, recycle) with containers</p>	<p>A compost pit is constructed in the garden area, where all garden waste is collected and left to decay to convert into compost. compost manure is used for plants and trees in the campus as a fertilizer.</p> <p>Information regarding liquid waste management: Washroom water waste is connected with municipal drainage line.</p>
<p>Do you reduce cafeteria waste via? ➤ reusable trays, plates, bowls,</p>	<p>Yes, at the canteen reusable plates, trays, bowls, cups are utilized.</p>



<p>cups/bottles, and serving ware? to minimize use of products with excess packaging? (Plastic-wrapped utensils)</p> <ul style="list-style-type: none"> <li>➤ engaging students to properly sort waste?</li> <li>➤ engaging parents to reduce packaging waste and single-serve containers?</li> </ul>	<p>In the college Steel plates, steel glasses or crystal glasses are used instead of Plastic plates and cups.</p> <p>Institute reduce packaging waste and single serve container by using reusable plates, trays, glasses etc.</p>
<p>Do you reduce paper waste via?</p> <ul style="list-style-type: none"> <li>➤ encouraging digital reading, note-taking, and activities?</li> <li>➤ setting printers and computers to default to duplex (double-sided) printing?</li> <li>➤ reducing margins and white space on documents that must be printed?</li> <li>➤ printing multiple pages per sheet?</li> <li>➤ minimizing paper correspondence with families?</li> <li>➤ opting out of unwanted mail?</li> </ul>	<p>Yes,</p> <ul style="list-style-type: none"> <li>• Digital learning/reading is promoted at institute.</li> <li>• A double side printer is employed to reduce paper consumption. The institute is environmentally conscious and committed to reusing paper and reducing office paper usage. Following are the creative ways the institute use to reuse paper.</li> </ul> <ul style="list-style-type: none"> <li>➤ Drafts are printed on the unused side of the old papers before printing final documents.</li> <li>➤ Papers are printed on both sides.</li> </ul> <p><b>Recommendation-</b> To promote a reduction in paper waste, it is advisable for institutions to promote digital reading and activities while discouraging the unnecessary use of printing paper. This approach would encourage individuals to rely more on electronic media and reduce their dependence on paper-based materials, thereby reducing the amount of paper waste generated.</p>
<p>Do you provide recycling collection for additional recyclable materials—like plastic bags, CFL (spiral) light bulbs, batteries, drink pouches, candy wrappers, and electronics—that cannot go in the single-stream blue bins?</p>	<p>During the audit, the team noted that there was improper storage of e-waste such as old computers, cables, and CPUs. It is crucial that e-waste and unused items are appropriately managed, either by being reused or recycled.</p> <p>No, Institute needs to establish the MOU With Third Party vendor to Handle and Recycle the E-Waste, Which Includes Computer Peripheral, Batteries, Lamps, Circuits, Cables Etc.</p> <p>Overall, establishing an MOU with a third-party vendor for e-waste management would help institutions to reduce their environmental impact, comply with environmental regulations, and promote sustainable waste management practices.</p>



<p>Are cleaning products, grease, strippers, batteries, fluorescent lighting, science lab materials, and other potentially hazardous products disposed of properly?</p>	<p><b>Recommendation-</b></p> <p>To effectively manage electronic waste (e-waste) generated by institutions, it is essential to establish a memorandum of understanding (MOU) with a third-party vendor who specializes in e-waste handling and recycling. This MOU would ensure that the vendor is responsible for managing all e-waste generated by the institution, including computer peripherals, batteries, lamps, circuits, cables, and other electronic items.</p> <p>The vendor would be responsible for the proper handling, transportation, and recycling of e-waste to prevent environmental pollution and promote sustainable waste management practices. This would help to ensure that the institution complies with environmental regulations and reduces its ecological footprint.</p>
<p>How is the waste generated in the Institute managed? Methods</p> <ul style="list-style-type: none"> <li>➤ Composting</li> <li>➤ Recycling</li> <li>➤ Reusing</li> <li>➤ Others (specify)</li> </ul>	<p>The following methods are applied to manage waste generated in the institute.</p> <ul style="list-style-type: none"> <li>• Compost – garden waste and food waste are collected and disposed of in compost pit for composting.</li> <li>• Reuse – rejected water from water cooler is reused for gardening.</li> <li>• Recycle – plastic waste, metal scrap.</li> <li>• Reuse – wood waste, old benches</li> </ul>
<p>Is there any waste wealth program practiced in the Institute?</p>	<p>The waste wealth program "Plastic-Free Campaign" conducted under the National Service Scheme (NSS) scheme by the institute is an excellent initiative aimed at raising awareness among students and the broader society about the importance of reducing plastic waste.</p> <p>Overall, the Plastic-Free Campaign conducted under the NSS scheme is an effective way to instill awareness, responsibility, and sustainable practices regarding plastic waste reduction. By educating students and the community, promoting alternative solutions, and encouraging collective action, the campaign contributes to a cleaner, greener, and more environmentally conscious society.</p>
<p>Can you achieve zero garbage in your Institute? (Reduce, Recycle, Reuse, Refuse) If yes, how?</p>	<p>Institute identified and willing to implement some projects to achieve zero garbage by reducing, recycle, reuse, and refuse methods.</p> <p>Institute also developed few basic policies to segregate and dispose the different types of waste generated in the institute. But the institute needs to improve the waste management system.</p>
<p><b>Green Belt &amp; landscaping, Including Biodiversity</b></p>	
<p>Have you taken an action to</p>	



<p>green your Institute yard through implementation of?</p> <ul style="list-style-type: none"> <li>➤ onsite composting?</li> <li>➤ habitat gardens?</li> <li>➤ native and drought-tolerant landscaping?</li> <li>➤ livestock, fowl, bees, and other animals?</li> <li>➤ tree planting and care?</li> </ul>	<p>Audit team observed.</p> <ul style="list-style-type: none"> <li>• Onsite compost</li> <li>• Tree plantation</li> </ul> <p><b>A list of tree plantations is given in the annexure.</b></p>
<p>Is there a garden in your Institute? Area?</p>	<p>Yes, the garden is developed by the institute. The gardens inside the college premises are found well maintained.</p>
<p>List the plants in the garden, with approx. numbers of each species.</p>	<p>List of plants are given in annexure along with species.</p> <p><b>Please refer annexure</b></p>
<p>Whether you have displayed scientific names of the trees in the campus?</p>	<p>The audit team observed that the scientific names of certain plants and trees within the campus are being displayed.</p> <p>Additionally, showcasing the scientific names of plants creates a sense of environmental consciousness and encourages sustainable practices. It promotes the understanding that each plant has a unique identity and ecological role. This knowledge can motivate individuals to value and protect the natural environment, supporting initiatives such as conservation, landscaping, and responsible gardening.</p>
<p>What are the vegetables cultivated in your vegetable garden? (Mention the quantity of harvest in each season)</p>	<p>NA</p>
<p>Are you using any type of recycled water in your garden?</p>	<p>NA</p>
<p>List the name and quantity of pesticides and</p>	<p>The institute prioritizes the use of organic fertilizers for gardening purposes. To nourish the garden, they employ in-house compost produced on the premises.</p>



fertilizers used in your gardens?	
Whether you are doing organic farming in your Institute? How?	NA
What is the involvement of students in the green cover maintenance?	The National Service Scheme (NSS) team conducts annual plantation programs, whereby students are actively engaged in tree-planting initiatives. Through the NSS program, students are encouraged to participate in these initiatives and contribute to environmental conservation efforts by planting trees.
Number of Tree Plantation Drives organized by the Institute per annum. (If Any)	Every year the institute organizes tree plantation drives inside and outside the campus under the NSS. Details about these plantation programs are uploaded on the college website.
<b>Birds and Animals Biodiversity (Fauna)</b>	
List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	<p>At campus area, majorly below Animals and Birds are found.</p> <ul style="list-style-type: none"> <li>• Squirrels (Sciuridae)</li> <li>• Chameleons(Chamaeleonid)</li> <li>• Butterflies</li> <li>• house sparrow(Passer domesticus)</li> <li>• Crows(Corvus)</li> <li>• Rock Pigeon (Feral Pigeon)Columba livia (Feral Pigeon)</li> <li>• Common Hawk-Cuckoo Hierococcyxvarius</li> </ul> <p>Dogs, Cats, Squirrels, Birds, Sparrow, Crow, Pigeon, Koyal, Snails, Snakes, Ants, Lizards, Mangos,</p>
Does your institute have a Biodiversity Programme or a KARUNA CLUB?	No
Does your institute keep artificial nests and water ponds to attract different birds in their migrating and breeding season?	<p>Yes,</p> <p>The institute has taken a positive step towards promoting environmental conservation by placing water pots for birds on trees at specific locations. This initiative is essential, as it provides a source of water for birds, particularly during the hot and dry seasons when natural water sources are scarce.</p> <p>This initiative is particularly crucial in urban areas, where the natural habitat of birds is often disrupted due to human activities.</p> <p>Moreover, by encouraging such initiatives, the institute is promoting environmental awareness and encouraging individuals to take responsibility for their surroundings. This initiative could also serve as an</p>





	inspiration for other organizations and individuals to adopt similar measures and contribute to environmental conservation efforts.					
<b>Noise Level</b>						
<p>Do you measure ambient noise level at?</p> <ul style="list-style-type: none"> <li>• Classroom</li> <li>• Near main gate</li> <li>• Near main building</li> <li>• Near admin building</li> </ul>	<p>Yes, the audit team measured the dB level at the location below.</p> <ul style="list-style-type: none"> <li>• Classroom</li> <li>• Near main gate</li> <li>• Near main building</li> <li>• Near admin building</li> </ul> <p>Please refer annexure for reading.</p>					
<p>Have you displayed boards in the library and other places for awareness to maintain silence in the Institute?</p>	<p>Yes, boards are displayed in a few places to create awareness about noise pollution on the campus.</p>					
<b>Carbon Footprint</b>						
<p>Annual HSD consumption by DG generators</p>	<p><b>5 Lit.</b> ( for the AY2022-23)</p>					
<p>Annual LPG consumption used in the institute</p>	<p><b>1 cylinder</b> (18Kg each)= 18 Kg. ( for the AY2022-23)</p>					
<p>Annual electricity consumption</p>	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Year</th> <th style="text-align: center;">2022- 2023</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>TOTAL (KWh)</b></td> <td style="text-align: center;"><b>3180</b></td> </tr> </tbody> </table>	Year	2022- 2023	<b>TOTAL (KWh)</b>	<b>3180</b>	
Year	2022- 2023					
<b>TOTAL (KWh)</b>	<b>3180</b>					
<p>Scope 1 GHG Emission</p>	<p><b>AY 2022-2023 : 0.08 tCO<sub>2</sub>.</b></p>					
<p>Scope 2 GHG Emission</p>	<p><b>AY 2022-2023: 2.59 tCO<sub>2</sub>.</b></p>					
<b>Purchase Policy</b>						
<p>Have you done a purchasing audit? (campus)</p>	<p>Yes, we have collected the bills of major purchases to understand the environmentally friendly product.</p>					



<p>Do you have a green product list for items such as?</p> <ul style="list-style-type: none"> <li>➤ green cleaning products?</li> <li>➤ paper/paper products with minimum recycled content (at least 30% postconsumer waste) and responsibly managed and harvested trees?</li> <li>➤ refillable pens/pencils?</li> <li>➤ no- to low-odor (VOC) markers?</li> <li>➤ no- to low-VOC paints? (Via Facilities)</li> <li>➤ plates, cups, and serving ware that are reusable, contain minimum recycled content, and/or are recyclable/compostable?</li> <li>➤ compostable bags for compost collection?</li> <li>➤ rechargeable batteries and chargers?</li> <li>➤ ENERGY STAR certified computers, monitors, printers, refrigerators, and other energy-using equipment?</li> <li>➤ Water Sense labeled faucets, toilets, showerheads, and other water-using equipment?</li> <li>➤ printers with duplexing</li> </ul>	<p>During review of purchase bills, we have seen below important purchases.</p> <ul style="list-style-type: none"> <li>• LED Lamps</li> <li>• Solar Lamps</li> <li>• ENERGY STAR certified computers, monitors, printers.</li> <li>• Printers with duplexing (double-sided) functionality</li> <li>• Plates, cups, and serving ware that are reusable.</li> <li>• Paper/paper products with minimum recycled content</li> </ul>
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(double-sided) functionality?	
Do you track your purchasing to ensure adherence to any green product guidelines	During the interview with the administrative staff, it was observed that the institute has implemented a green policy to ensure careful monitoring and scrutiny of every purchase.
Do you limit the purchase of single-serve bottles and containers?	<p>Ban on the use of Plastics: Stickers and boards are displayed on campus at few locations to restrict and reduce the use of plastics.</p> <p>Moreover, the display of these stickers and boards demonstrates the institution's commitment to environmental sustainability. It showcases the proactive steps taken by the campus to mitigate the negative impact of plastics on the ecosystem. It also serves as an invitation for the campus community to actively participate in the collective effort to reduce plastic waste.</p>
<b>Social awareness</b>	
Do you encourage staff and students to conduct social awareness programs?	<p>The institute is committed to providing a comprehensive education to its students and fostering their awareness of constitutional rights, values, duties, and responsibilities. This is accomplished through a variety of methods, including both academic and extracurricular programs.</p> <ul style="list-style-type: none"> <li>• In addition to this many regular social programmes like seminars and workshops are conducted and celebrated on days of national importance by NSS cell to educate and create awareness among students. such as,             <ol style="list-style-type: none"> <li>1. Constitution Day is celebrated on 26th November every year. The Programme initiates with a Preamble reading of the constitution followed by lectures on the sensitization of students on responsibility towards the constitutional values, rights, duties, and responsibilities of citizens.</li> <li>2. The students are encouraged to participate in the activities of spreading awareness among citizens on social issues like road safety through various programs. The college has a policy for students and staff where wearing a Helmet is compulsory. The college also ensures that students have their driving licenses with them, and the details are to be given during admission.</li> <li>3. Students are made aware of the code of ethics, human values, rights, duties, and responsibilities as a student and a citizen of India during induction as well as other programmes throughout the year.</li> <li>4. Stakeholders are made sensitive towards gender equity and gender neutrality through various merits across the year. • Human Rights and Equal Opportunity Stakeholders are made aware of the steps towards an inclusive society, which has equal opportunities available to all irrespective of their caste, creed, gender, or religion.</li> <li>5. Women's Day is celebrated every year to awaken the respect, admiration and equality of women among the students.</li> <li>6. Staff and students are motivated to help and contribute to disaster-affected people. As per the need, the college through the NSS wing of the</li> </ol> </li> </ul>



	<p>college collects the aid and ensures it reaches the disaster-affected people. The staff also contributes to the PM Care Fund and CM fund as per the need, especially during the difficult COVID times.</p> <ul style="list-style-type: none"> <li>• NSS unit of the institution conducts a cleanliness drive on the occasion of Swachh Bharat Abhiyan in the college campus as well as in the nearby village area. Skits and stage programs are organized by students during NSS camps, on different social issues happening around us. like related to sensitization on corruption, responsibility of young, women empowerment Child labor, social media abuse, Favoritism, and Mental Health etc.</li> <li>• Independence Day and Republic Day are celebrated every year with grand auspicious function and faculty, staff, students attends it.</li> <li>• Details about social events conducted by college are given on below link. <a href="https://accy.ac.in/pdf/Best%20Practices%202021-22.pdf">https://accy.ac.in/pdf/Best%20Practices%202021-22.pdf</a></li> </ul>
<b>Divyangjan Facility</b>	
Number of Divyangjan students in your institute.	Yes 02 Divyangjan students are reported in current year.
Special facilities provided to Divyangjan student .	<p>To ensure equality, freedom, Justice and Dignity to the differently abled students-</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Special ramps constructed for differently abled students for their conveyance in the campus</li> <li><input type="checkbox"/> Convenient seating arrangements and writer made available during examinations.</li> <li><input type="checkbox"/> Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment</li> </ul>
<b>Gender Equity Ratio</b>	
Have you maintained gender equity ratio (Male/Female ratio) in your institute?	<p>There is approximately 50% strength of girl's student at Institute.</p> <ul style="list-style-type: none"> <li>• Institute believes in gender equality &amp; gender justice in all of its intervention &amp; practices. Keeping these principles in view, it is important to ensure an organizational climate which is free from discrimination &amp; harassment. Internal Complaints committee and women cell is established in the college. The Committee is responsible for looking into any complaints filed by faculty, students &amp; non-teaching staff about woman grievances in the campus. <a href="https://accy.ac.in/pdf/WOMENSSAFETYANDSECURITY.pdf">https://accy.ac.in/pdf/WOMENSSAFETYANDSECURITY.pdf</a></li> </ul>
Gender equity	<b>Gender ratio</b>



No. Male and Female Staff		Total	Male	Female
	No of students	784	427	357
No. Male and Female Student	No of teachers	14	12	02
	No of non-teaching staffs	06	05	01
Do you conduct and support women empowerment programs/ activities?	<ul style="list-style-type: none"> <li>The institute actively organizes a multitude of webinars and workshops aimed at promoting and fostering women empowerment. These events are designed to provide women with valuable knowledge, skills, and resources to enhance their personal and professional growth.</li> <li>Training programs in life skills, social skills, interpersonal skills, professional skills and study skills are the main areas taught to students. Furthermore, these events play a vital role in raising awareness about women's issues and promoting gender equality. They encourage dialogue on important topics such as women's rights, representation, and empowerment. By fostering a deeper understanding of gender dynamics and biases, these webinars and workshops contribute to creating a more inclusive and equitable society.</li> <li>Institute provided Some special facilities for girl students like Anti-Sexual Harassment Cell, Counselling, anti-ragging committee, common rest room, CCTV Surveillance. <b>Please Refer Annexure for details.</b></li> </ul>			
<b>Health and safety</b>				
Is there a health surveillance Programme / Medical checkup once in a year?	<p>Yes, the Institute have conducted the below health surveillance programs.</p> <ul style="list-style-type: none"> <li>Free medical checkup camp</li> <li>Blood donation camp</li> <li>Blood checkup camp</li> </ul>			
Do you provide some health facilities for students and employees in your campus?(sports, yoga, meditation etc.)	<p>The institute ensures the availability of a well-equipped First Aid Box in the office area, prioritizing the safety and well-being of its members.</p> <p>To promote the overall physical and mental health of individuals, the institute offers a range of sports facilities, as well as dedicated spaces for yoga and meditation. These facilities provide opportunities for individuals to engage in physical activities, enhance their fitness levels, and find moments of calm and relaxation amidst their daily routines.</p> <p>In addition to providing these amenities, the institute actively celebrates Yoga Day, using this occasion to raise awareness about the significance of mental health. By organizing events and activities, the institute aims to highlight the importance of maintaining a healthy mind and promoting well-being through practices like yoga and meditation.</p>			
Have you conducted health awareness camps or	<p>Yes. Institute have conducted below programs under NSS Scheme</p> <ul style="list-style-type: none"> <li>Health Check Up Camp</li> </ul>			



programmes in your institute?	<ul style="list-style-type: none"> <li>• Blood donation camp -Every year the institute organizes a blood donation camp as part of Institutional Social Responsibility and many students and college staff participate in it. This practice has continued in our college for the last 15 years.</li> <li>• International Yoga Day</li> </ul>
What are the safety measures for staff and students in your institute?	<p>The institute emphasizes more on the safety and security of students and staff.</p> <ul style="list-style-type: none"> <li>• The important places in the institute such as Examination halls, classrooms, laboratories and corridors are under CCTV surveillance.</li> <li>• The securities are deployed at strategic locations.</li> <li>• Institute has made it mandatory for everyone to wear identity-cards on the college campus.</li> <li>• As a general safety feature fire extinguishers are strategically placed on the campus.</li> <li>• Disaster management training for students and staff conducted by the institute.</li> </ul>
Are electrical/network cables in the campus organized properly to eliminate trip hazards?	<p>During the audit, it was noted that electrical and network cables in certain locations within the campus were not organized properly. To ensure safety and prevent potential hazards, it is essential that electric meters and cables are appropriately arranged and secured in a metal rack.</p> <p>By implementing a structured system for organizing electrical and network cables, the institute can minimize the risk of accidents, such as tripping or electrical malfunctions. Proper organization not only enhances the overall aesthetics of the campus but also facilitates maintenance and troubleshooting processes.</p>
Are hazardous materials/chemicals in labs properly stored?	<b>NA</b>
Are floor surfaces clean, dry, level, not slippery or sticky and in good condition?	Yes, Housekeeping staff daily maintained and keep clean and dry surface in the campus.
Health and Safety point of view,  Do you fulfil the basic needs	



<p>below for staff and students?</p> <ul style="list-style-type: none"> <li>• Adequate ventilation</li> <li>• Easily accessible emergency exits.</li> <li>• Sanitation in cafeterias and restrooms</li> <li>• Access to potable water</li> <li>• Exposed or unmarked electrical wiring</li> <li>• Emergency response plan</li> </ul> <p>Fire suppression equipment and evacuation plans</p>	<p>All classrooms, admin building, library, laboratory, washrooms, corridor are full of natural ventilation, windows. Cross ventilation across windows.</p> <p>Yes, proper arrangement of rest room and sanitation.</p> <p>Yes, good quality of potable water is available.</p> <p>Yes, College has Fire Extinguishers installed at few locations for safety purpose.</p>
<p>Are fire extinguishers fully charged and have current inspection dates? All previous months should be signed off</p>	<p>Yes, maintenance and refill of fire extinguisher needs to check at periodic interval.</p>
<p>Are fire extinguishers and hoses, mounted, visible, and accessible?</p>	<p>Fire extinguishers and hoses in the institute are mounted in a way to easily visible and accessible to everyone.</p>
<p>Do staff and students know where the fire extinguishers are and how to use them?</p>	<p>Yes, the Institute have conducted disaster management workshops and safety training for students and staff.</p>
<p>Are LPG cylinders located or stored in a manner to prevent them from creating a hazard by tripping, falling, or rolling? The</p>	<p>Yes, LPG cylinders are only used in the college canteen.</p>



cylinders should be stored upright and chained with protective cap in place (including empty containers).	
Are flammables and combustibles stored properly?	NA
Are procedures established for alerting staff and students of an emergency in the Institute (i.e., fire and shelter)?	Yes, Fire safety training has been given to the staff and students in the institute.
<b>Child Labor</b>	
<p>Have you given employment to the underage candidates?</p> <p>Are there any underage candidates working in your institute?</p>	<p>No,</p> <p>No underage candidate is working in the institute. The College is strictly against child labour.</p>
<b>Discrimination</b>	
Do you protect your students and staff from discrimination based on origin, caste, race, religion, gender, political affiliation, and other attributes?	<p>Yes. As per interviews of staff members, there are no incidents recorded for discrimination based on origin, caste, race, religion, gender, political affiliation, and other attributes. It indicates that the institute has created an environment where individuals feel safe, respected, and valued regardless of their attributes.</p> <p>Overall, the absence of recorded incidents of discrimination based on origin, caste, race, religion, gender, political affiliation, and other attributes reflects positively on the institute's commitment to fostering an inclusive and equitable environment. It highlights the importance of creating policies, practices, and a culture that actively promote diversity and reject discrimination.</p>







## Chapter 05: Audit Observations

### Best Practices of Institute :

The institution acknowledges its responsibility to promote environmental awareness and has taken proactive measures to integrate sustainable and eco-friendly practices. In pursuit of environmental consciousness, the institute has implemented the following initiatives on its campus:

1. Institute has undertaken various initiatives as part of the National Service Scheme (NSS) program, such as organizing plantation drives and cleanliness campaigns.
2. Every year, the NSS team leads a tree plantation program both within and outside the campus.
3. Institute celebrates “No Vehicle Day” every year.
4. The wastewater from the basins and water cooler are transferred to the plants of the garden nearby to the building.
5. Institute conducted “Plastic free” Campaign to reduce and recycle plastic.
6. College campus garden developed and maintained with good biodiversity of plants and trees. Plants and trees are well labelled with botanical names.
7. The institute has taken a positive step towards promoting environmental conservation by placing water pots for birds on trees at specific locations.
8. Vermicompost pit is developed to manage the garden and canteen waste.
9. Stickers and boards are displayed on campus at various locations to restrict and reduce the use of plastics.
10. The college campus has implemented solar lamps to reduce energy consumption.
11. College has pedestrian friendly pathway for the entry of students, staff, visitors to office and college campus.
12. Institute has installed energy efficient Lighting (LED) in the campus.

Aiming towards Social awareness, the Institute has implemented and conducted the following activities.

13. All easily accessible facilities provided to Divyangjan students like ramps and Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment.
14. Institute has installed Fire Extinguishers at a few important locations available for safety purposes.
15. College also conducted Disaster management training Programme for staff and students.
16. Institute has provided health facilities like First Aid Box for staff and students.
17. Gender equity ratio of institute is good. women cell is established in the college.
18. Woman’s day celebrations and woman’s empowerment activities, workshops and seminar are conducted in the institute.



19. The important places in the institute such as Main Examination halls, classrooms, laboratories and corridor are under CCTV surveillance.
20. Complaint Boxes are placed in campus to drop a complaint for girls and women.
21. Health awareness programmes and free health checkup camp conducted.
22. The NSS department Organizes Blood Donation Camps every year in the College.
23. The NSS department of college Organises Health checkup camps in its special camp at the adopted village It offers Collaborative services in the camp every year.
24. Institute also conducts various social awareness programmes to create awareness about Law, National unity, Human rights, Health and Diet, Health and safety, Responsibility towards Nation, Human values, etc.
25. The institution has adequate facilities for sports, games (indoor and outdoor) and cultural activities, it helps the overall development of the students.



### **Opportunity of Improvement :**

1. Establish a purchase policy to promote environmentally friendly materials.
2. Students and staff can be permitted to solve local environmental and social problems.
3. Maintain minutes of meetings of environment and social committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'
4. Establish water and energy management systems.
5. Encourage efficient water use and reporting by installing water meters at key locations. Provide information on water usage and savings to students/ staff through notices, screensavers in computer labs.
6. Institute can start metering water consumption, measuring waste generation.
7. Drinking water is tested on a periodic basis, recording all readings on periodic basis, so that monthly data can be established.
8. Your campus needs to display signage promoting the conservation of water.
9. The college needs to repair and maintain the water coolers to get good quality of drinking water for staff and students.
10. Installation of 100% drip irrigation in the college garden is recommended to conserve water.
11. Installation of a rainwater harvesting system for the college rooftop to recharge groundwater.
12. Installation of low-flow faucets, automatic faucets, and/or faucet aerators is recommended.
13. Institute needs to install solar PV module to reduce grid electricity consumption and to become 100% carbon neutral.
14. Installation of sensor-based electrification items like fans, lights, etc. can save electricity.
15. Replace old ceiling fans with new energy efficient fans.
16. "TURN OFF THE LIGHTS" stickers should be strategically placed throughout the college campus.
17. Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the freshwater footprint.
18. Installation of sanitary pad vending machine in girl's common room.
19. Recommendation- Institute needs to improve housekeeping practices in order to minimize dust in classrooms and Labs. It helps to maintain clean air.
20. Dedicated dustbins should be placed at various locations on the campus to facilitate the collection of both wet and dry waste.
21. To promote a reduction in paper waste, it is advisable for institutions to promote digital reading and activities while discouraging the unnecessary use of printing paper.
22. The Institute needs to establish the MOU With Third Party vendor to Handle and Recycle the E-Waste, Which Includes Computer Peripheral, Batteries, Lamps, Circuits, Cables Etc.
23. Periodic maintenance and checking of fire extinguisher are necessary.
24. Periodic fire audit and electric safety audit by reputed organization is recommended.



## Reference list of Websites

- i. IEEE 519 - <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=2227>
- ii. <http://mnre.gov.in/solar-energy/ch2.pdf>
- iii. BEE - <http://www.beeindia.in/>
- iv. ECBC - <http://beeindia.in/content.php?page=schemes/schemes.php?id=3>
- v. [http://www.energymanagertraining.com/new\\_index.php](http://www.energymanagertraining.com/new_index.php)
- vi. [http://www.usailighting.com/stuff/contentmgr/files/1/92ffeb328de0f4878257999e7d46d6e4/misc/lighting\\_comparison\\_chart.pdf](http://www.usailighting.com/stuff/contentmgr/files/1/92ffeb328de0f4878257999e7d46d6e4/misc/lighting_comparison_chart.pdf)
- vii. <https://www.bijlibachao.com/lights/use-energy-efficient-lights.html>
- viii. <http://www.bijlibachao.com/air-conditioners/air-conditioner-selection-understand-tonnage-eercop-and-star-rating.html>
- ix. <http://www.indiawaterportal.org/sites/indiawaterportal.org/files/Roof%20Top%20Rainwater%20>
- x. [https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)
- xi. <http://www.cea.nic.in/tpeandce.html>
- xii. <https://timesofindia.indiatimes.com/india/power-ministry-may-make-24-degree-celsius-as>
- xiii. [https://accy.ac.in/pages/principals\\_desk.php](https://accy.ac.in/pages/principals_desk.php)
- xiv. [https://accy.ac.in/pages/vision\\_mission.php](https://accy.ac.in/pages/vision_mission.php)
- xv. <https://accy.ac.in/pdf/Best%20Practices%202021-22.pdf>
- xvi. : [https://air-quality.com/place//15adef49?lang=en&standard=naqi\\_in](https://air-quality.com/place//15adef49?lang=en&standard=naqi_in)
- xvii. <https://accy.ac.in/pdf/Best%20Practices%202021-22.pdf>
- xviii. <https://accy.ac.in/pdf/WOMENSSAFETYANDSECURITY.pdf>
- xix.



### Annexure 1: Reference Documents / Surveys

Sr. No.	Reference documents/ Survey
1.	Institute Registration details, pervious NAAC certificate
2.	Institute Awards, recognition
3.	Academic staff, designation and qualification
4.	Short note about institute including establishment details, area, subjects, faculty, staff, labs, students, campus etc. mission, vision, values, policy statement
5.	List of environmental issues identified by institute
6.	List of environmentally friendly practices, List of projects - energy conservation, rainwater harvesting, waste recycling (solid/liquid waste management, e-waste management), renewable energy project, plantation etc.
7.	List of days celebration like – Environment Day, energy day etc. with program details and photos
8.	Drinking water facility: Functionality of RO water plant
9.	Recycle of water: Utilization of RO reject water for gardening
10.	Natural resource utilization: Setup for rainwater harvesting
11.	Information regarding canteen compost Management as applicable
12.	Information regarding garden waste management
13.	Information regarding liquid waste management
14.	Measures for maintaining cleanliness in campus
15.	Measures for garbage collection and disposal
16.	Plantation Measures – Biodiversity, list of species observed in the campus
17.	Measures for construction waste management (use of construction waste for filling purpose.
18.	Electricity Bills for duration of 12 months
19.	Roll of staff, students and management to save electricity in campus
20.	Lighting survey (number of tube lights, CFL and LED)
21.	AC survey (number of AC and their star rating)
22.	Rainwater harvesting (Photographs of the water harvesting structure)
23.	Initiatives by college for the community NSS camps, Swatch Bharat with photos
24.	Details about promotion of below programs. <ul style="list-style-type: none"> <li>• Pedestrian-friendly pathways</li> <li>• Ban on the use of Plastics.</li> <li>• Landscaping with trees and plants</li> </ul>
25.	Outside campus plantation program implemented by Institute
26.	Policy statement by Leadership w.r.t. Environment conservation.



## Annexure 2 : Physical Structure of College

1. The Institute is located in about 04 acres of land. The built-up area of the Institute is 1 acre.

No. of Floors	01
Departments	11
Laboratories	01
Conference halls	01
Libraries	01
Auditorium	01
Canteens	01
Hostel	00



### Annexure 3 : Waste management and water management

#### Different types of waste generated in the college and their disposal.

Types of waste	Particulars	Disposal method
E-waste	Computers, electrical and electronic parts	Stored at dedicated place
Plastic waste	Pen, Refill, Plastic water bottles and other plastic containers, wrappers etc.	collected in Dustbin hand over to scrap collector
Solid waste	Damaged furniture, paper waste, paper plates, food waste, Garden waste	Disposed according to material: if recyclable- to scrap collector
Wastewater	Washing, urinals, bathrooms	in Drainage
Chemical waste	Laboratory waste	In Soak Pit
Glass waste	Broken glass wares from the labs	In dustbin
Sanitary napkins	Medical waste	In dustbin
Others		

Sr. NO	PARAMETERS	Response
1	Source of water	Bore wells.
2	No of Wells/Borewells	2
3	No of motors used	2
4	Horsepower – Motor	5 HP
5	Quantity of water pumped every day	Lit
6	Number of water tanks	4
7	Capacity of tank	1300 Lit.





### Annexure 4 : On site Measurement

Date:	26 Dec 2023
Ambient Temperature:	26 Degree Celsius
Relative humidity:	18%

#### Lighting Survey

Location	Lux - Spot 01	Lux - Spot 02	Lux - Spot 03	Lux - Spot 04	Comment
Classroom 01	530	220	640	1050	OK, Lux level is within permissible limit. Classrooms are full of daylight.
Classroom 02	730	840	175	650	
Classroom 03	640	530	740	580	
Classroom 04	260	800	970	450	
Classroom 05	630	540	520	260	

#### Water Quality Survey

Location	TDS (ppm)	pH	Comment
Water cooler 01	380	8.75	OK, within permissible limit.

#### Ambient Noise level Survey

Locations	Average reading dB Level during Day time	Comments
Near main gate	65	OK
Near main building	55	OK
Near college office	56.5	OK
Classroom	45	OK



## Annexure 5 : Carbon Footprint Calculation

### AY 2022-2023

Scope	Annual Ele consumption (MWh)	EF (tCO <sub>2</sub> /MWh)	tCO <sub>2</sub>	Ref of EF
2	3.18	0.815	2.59	CEA User guide ver18 (2022)
Scope	Annual HSD consumption (ton)	EF (tCO <sub>2</sub> /ton)	tCO <sub>2</sub>	Ref of EF
1	0.00425	3.954	0.02	Defra guideline 2020 (including WTT)
Scope	Annual LPG consumption (ton)	EF (tCO <sub>2</sub> /ton)	tCO <sub>2</sub>	
1	0.018	3.298	0.06	Defra guideline 2020 (including WTT)

Scope 1	0.08	tCO <sub>2</sub>
Scope 2	2.59	tCO <sub>2</sub>


**Annexure 6 : List of Plants and Trees Biodiversity**

Sr. No.	Name of the Plant	Qty.
1.	Slipper Flower – Calceolaria	04
2.	Mescal - Agave Americana	02
3.	Sago Palm - Cycas Revoluta	01
4.	Spider Plant - Chlorophytum Comosum	01
5.	Aloe Vera - Aloe Barbadensis Miller	07
6.	Bougainvillea – Bougainvillea	04
7.	Z Plant - Zamioculcas Zamiifolia	01
8.	Winged Pod Purslane - Portulaca Umbraticola	03
9.	Caladium – Caladium	01
10.	Council Tree -	01
11.	Ficus Cordata - Ficus Cordata	02
12.	Dumb Cane – Dieffenbachia	02
13.	Araucaria Bidwillii Hook - Araucaria Bidwillii	01
14.	Kalanchoe Pinnata, Dracaena Trifasciata - Kalanchoe Pinnata,	01
15.	Dracaena Trifasciata	05
16.	Jasminum Grandiflorum - Jasminum Grandiflorum	07
17.	Tabernaemontana Divaricata - Tabernaemontana Divaricata	01
18.	Campsis Grandiflora - Campsis Grandiflora	01
19.	Platyclusus Orientalis - Platyclusus Orientalis	01
20.	Ixora Chinensis - Ixora Chinensis	01
21.	Hamelia Patens Jacq - Hamelia Patens	01
22.	Psidium Guajava - Psidium Guajava	05
23.	Senna Siamea - Senna Siamea	05
24.	Ficus Religiosa - Ficus Religiosa	04
25.	Khaya Senegalensis - Khaya Senegalensis	01
26.	Monoon Longifolium	01
27.	Phoenix Reclinata - Phoenix Reclinata	02



28.	<b>Combretum Indicum - Combretum Indicum</b>	<b>01</b>
29.	<b>Pongamia Pinnata - Pongamia Pinnata</b>	<b>51</b>
30.	<b>Aegle Marmelos - Aegle Marmelos</b>	<b>03</b>
31.	<b>Vachellia Nilotica - Vachellia Nilotica</b>	<b>25</b>
32.	<b>Syzygium Cumini - Syzygium Cumini</b>	<b>10</b>
33.	<b>Diospyros Virginiana - Diospyros Virginiana</b>	<b>03</b>
34.	<b>Pithecellobium Dulce - Pithecellobium Dulce</b>	<b>02</b>
35.	<b>Azadirachta Indica - Azadirachta Indica (Neem)</b>	<b>32</b>
36.	<b>Dalbergia Sissoo - Dalbergia Sissoo</b>	<b>02</b>
37.	<b>Hibiscus Sparsiflorus - Hibiscus Sparsiflorus</b>	<b>11</b>
38.	<b>Balanites Aegyptiaca - Balanites Aegyptiaca</b>	<b>32</b>
39.	<b>Senna Occidentalis - Senna Occidentalis</b>	<b>50</b>
40.	<b>Ficus Religiosa - Ficus Religiosa</b>	<b>02</b>
41.	<b>Plumeria Obtusa - Plumeria Obtusa</b>	<b>13</b>
42.	<b>Alstonia Scholaris - Alstonia Scholaris</b>	<b>04</b>
43.	<b>Moringa Oleifera - Moringa Oleifera</b>	<b>01</b>
44.	<b>Tamarindus Indica - Tamarindus Indica</b>	<b>04</b>
45.	<b>Chrozophora Tinctoria - Chrozophora Tinctoria</b>	<b>03</b>
46.	<b>Plumeria Pudica - Plumeria Pudica</b>	<b>02</b>
47.	<b>Cestrum Parqui - Cestrum Parqui</b>	<b>03</b>
48.	<b>Lagerstroemia Speciosa - Lagerstroemia Speciosa</b>	<b>02</b>
49.	<b>Terminalia Arjuna - Terminalia Arjuna</b>	<b>01</b>
50.	<b>Duranta Erecta - Duranta Erecta</b>	<b>65</b>
51.	<b>Vachellia nilotica (L.) P.J.H.Hurter &amp; Mabb.</b>	<b>18</b>



**Annexure 7 : List of Awareness Programs Undertaken by Institute**

**Tree Plantation Programme**



Unnamed Road, Yeoda Bk., Maharashtra 444706, India

Latitude  
21.0083101°

Local 11:23:47 AM  
GMT 05:53:47 AM

Note : Savitribai Phule Jayanti

Longitude  
77.2259655°

Altitude 0 meters  
Thursday, 20-01-2022



Amravati, Maharashtra, India  
262H+7H9, Yeoda Bk., Maharashtra  
444706, India  
Lat: 21.00 Long: 77.22  
2021/09/29 01:17 PM

29°C



**Cleanliness Campaign**



**Seminar on gender sensitization**





### International Tourism Day



### voters rally to create awareness.



Free Eye checkup Camp



Cybercrime awareness Programme







**Plastic free village campaign**



**Meri Mati Mera Desh Initiative**





Promotional sports competitions



### International AIDS DAY Program



### Yoga Day Celebration



**Annexure 8 : Best Practices of Institute**

**Garden waste management(compost pit)**



**Drinking water facility**



**Rejected drinking water used for the garden**



**Divyangjan Friendliness Ramp Provision**



### Solar Lamps



### Complaint box



**Rest room for girl student**



**College Library**





### Green belt / Biodiversity

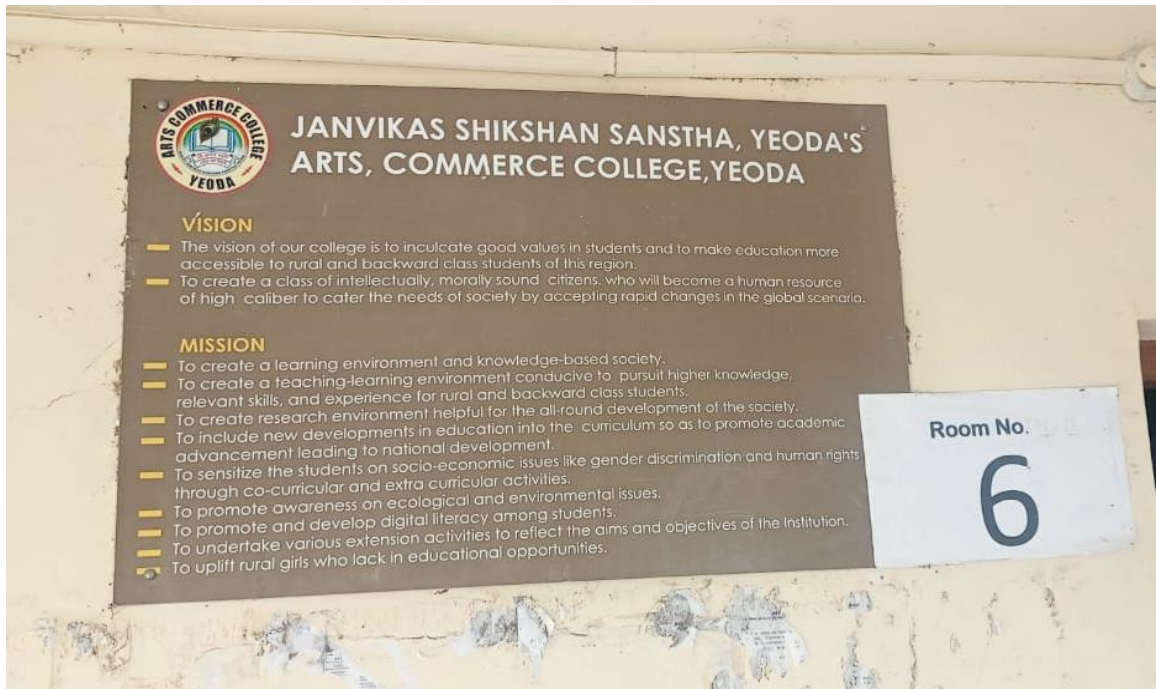


### Indoor potted plants





**Annexure 9 : Environmental and Social Awareness Posters/Stickers**





## Annexure 10: Environmental and Social awareness programmes conducted in the College during 2022-2023

### येवदा येथे जन विकास शिक्षण संस्थेत वृक्ष लागवड

प्रतिनिधी, १० जुलै

**अकोला** - जन विकास शिक्षण संस्था येवदा द्वारा संचालित कला वाणिज्य महाविद्यालय परिसरात राष्ट्रीय सेवा योजना च्या वतीने वनमहोत्सव हा महत्वाकांक्षी वृक्षलागवड उपक्रम राबविण्यात आला. याप्रसंगी विविध प्रजातीच्या वृक्षांचे रोपण जनविकास शिक्षण संस्था, येवदाचे सचिव माननीय गजानन राव कोकाटे यांच्या हस्ते या महत्वाकांक्षी वृक्ष लागवड उप माची सुरुवात करण्यात आली. जुलै ते सप्टेंबर असा हा वनमहोत्सव दरवर्षी सामाजिक वनीकरण आणि राष्ट्र ीयसेवायोजना, महाराष्ट्र शासन यांच्यासंयुक्त विधमाने राबविण्यात येतो. या उप माचा एक भाग आणि



अंश म्हणून हा कार्यक्रम राबविण्यात आला. याप्रसंगी महाविद्यालयाचे प्राचार्य, डॉ. वाय. जी. सिंग यांच्या मार्गदर्शनाखाली विविध प्रजातीचे वृक्ष आणून त्यांची लागवड करण्यात आली. यावेळी राष्ट्र ीय सेवा योजना कार्य म अधिकारी प्रा. डॉ. संदीप डोंगरे तसेच सहकार्य क्रम

अधिकारी डॉ. हेमलाता ढगे यांच्यासह महाविद्यालयातील प्राध्यापक वृंद तथा शिक्षकेतर कर्मचारी या सर्वांच्या हस्ते एक एक वृक्ष लागवड महाविद्यालय परिसरात करण्यात आली. याप्रसंगी या उपक्रमाबद्दल बोलताना गजाननराव कोकाटे यांनी वृक्ष रोपण

आणि संवर्धन हा भावी पिढीच्या संरक्षणासाठी केला जाणारा महत्वाचा उपक्रम असून आज आपण जी मोठ-मोठी वृक्ष आपल्या आजूबाजूला पाहत आहोत, ती लावणारी मंडळी आज हयात नाहीत. तसेच आपणही भविष्यात नसू पण भावी पिढीच्या साठी असे उपक्रम राबविणे आवश्यक आहे. यावेळी प्रा. राठोड, प्रा. बनसोड, प्रा. हंबर्डे, ग्रंथपाल डॉ. उमेश बेंड, डॉ. मोहोळ डॉ. अतुल टेवरे, डॉ. कन्नोजवार, या प्राध्यापक वृद्धांनी आणि शिक्षकेतर कर्मचारी अनिल माकोडे, सारंगधर शेवाळे, गोपाल लांडे यांनी परिश्रम घेतले. असे राष्ट्र ीय सेवा योजनेचे कार्यक्रम अधिकारी यांनी एका प्रसिद्धी पत्रकाद्वारे कळविले आहे.

### येवदा महाविद्यालयाचे माझी वसुंधरा अभियान

प्रतिनिधी, १ ऑक्टोबर

**अकोला** - जन विकास शिक्षण संस्था येवदा द्वारा संचालित कला वाणिज्य महाविद्यालय येवदा राष्ट्रीय सेवा योजना विभागाच्या वतीने २४ सप्टेंबर ते दोन ऑक्टोबर हा राष्ट्रीय सेवा योजना सप्ताह साजरा करण्यात येत असून या सप्ताहात अंतर्गत माझी वसुंधरा अभियान या अभियानाद्वारे पर्यावरण जनजागृती करण्यात येऊन वृक्ष लागवड कार्यम आणि त्या अनुषंगाने विद्यार्थ्यांना या महत्वाकांक्षी उपमांमध्ये सहभागी होऊन वृक्षांची लागवड, जोपासना आणि महत्त्व

हे या कार्यमातून बिंबवण्यात येत आहे. दत्तक ग्राम अंतरगाव शिवाजी तसेच महाविद्यालयाच्या परिसरात या अभियानाच्या माध्यमातून २४ निरनिराळ्या प्रजातीच्या वृक्षांची लागवड करण्यात आली. समाजामध्ये माझी वसुंधरा अभियान या महत्वाकांक्षी उपमाचे राष्ट्रीय सेवा योजनेच्या अंमलबजावणीसाठी विद्यापीठाच्या मार्गदर्शक तत्वानुसार या कार्यमाचे आयोजन करण्यात आले आहे. असे राष्ट्रीय सेवा योजना कार्यम अधिकारी प्रा. डॉ. संदीप डोंगरे यांनी एका प्रसिद्धीपत्रकाद्वारे कळविले आहे.

## येवदा महाविद्यालयात जागतिक लोकसंख्या दिन संपन्न

प्रतिनिधी, १२ जुलै

**अकोला** - जनविकास शिक्षण संस्था येवदा द्वारा संचालित कला वाणिज्य महाविद्यालयाच्या राष्ट्रीय सेवा योजना आणि इतिहास विभाग यांच्या संयुक्त विद्यमाने ११ जुलै २०२१ ला जागतिक लोकसंख्या दिनानिमित्त सामान्य ज्ञान प्रश्नमंजूषा चे ऑनलाईन आयोजन करण्यात आले. महाविद्यालयाचे प्राचार्य डॉ. वाय. जी. सिंगयांच्या मार्गदर्शनाखाली राष्ट्र त्रैपसेवा योजना चे महाविद्यालयाचे कार्य म अधिकारी तथा इतिहास विभाग प्रमुख प्रा. डॉ. संदीप भीमराव डोंगरे यांनी लोकसंख्या दिनानिमित्त महाविद्यालयातील विद्यार्थ्यांना वाढत्या लोकसंख्येचे चे महत्त्व आणि त्याबाबत जाणीव

जागृती ही विद्यार्थ्यांच्या माध्यमातून समाजापर्यंत जावी या उद्देशाने एका सामान्यज्ञाना वर आधारित प्रश्न मंजूषा चे ऑनलाईन आयोजन केले होते. यामध्ये महाविद्यालयातील १०० पेक्षा जास्त विद्यार्थ्यांनी सहभाग नोंदविला. अज्ञात विषयापासून ज्ञात विषयाकडे अशा पद्धतीचे या प्रश्न मंजूषा चे स्वरूप होते. ज्यामध्ये जागतिक लोकसंख्या दिनाच्या अनुषंगाने महाराष्ट्र त्तील लोकसंख्या, भारताची लोकसंख्या आणि जागतिक लोकसंख्या यांच्या संदर्भातील विविध वेचक प्रश्नांचा समावेश केला गेला होता. या ऑनलाईन सामान्यज्ञान स्पर्धेच्या अचूक उत्तरांना सबमिट केल्याबरोबर सहभागी विद्यार्थ्यांना एक इ-प्रमाणपत्र सुद्धा बहाल करण्यात आले.

दिन विपेशा च्या अनुषंगाने महाविद्यालय अभ्यासक्रमासह अशा पद्धतीच्या सह अभ्यासक्रमिक उपक्रमांना नेहमीच महत्त्व देते. असे प्रतिपादन यावेळी महाविद्यालयाचे प्राचार्य यांनी केले. राष्ट्र त्रैप सेवा योजना आणि इतिहास विभागाच्या वतीने अशा प्रकारचा सामान्य ज्ञान प्रश्न मंजूषा वर आधारित हा चौथा कार्य म होता. विद्यार्थ्यांचा वाढता प्रतिसाद पाहून अशा ऑनलाईन उप मांचे स्वरूप आणि संख्या येणार्या दिवसात अधिका-अधिक विद्यार्थी केंद्री करण्याचा मानस त्यांनी बोलून दाखविला. असे राष्ट्रीय सेवा योजना कार्य म अधिकारी आणि इतिहास विभाग प्रमुख प्रा. डॉ. संदीप भीमराव डोंगरे यांनी एका प्रसिद्धीपत्रकाद्वारे कळविले आहे.

## येवदा येथे स्तनपान सप्ताह निमित्त प्रबोधन

प्रतिनिधी, ९ ऑगस्ट

**अकोला** - जन विकास शिक्षण संस्था येवदा द्वारा संचालित कला वाणिज्य महाविद्यालय येथे राष्ट्र त्रैप सेवा योजना आणि गृह अर्थशास्त्र विभागाच्या वतीने जागृतीक स्तनपान सप्ताह चे अनुषंगाने एक दिवसीय प्रबोधन सत्र आयोजित करण्यात आले. प्रबोधन नुकतेच संपन्न झाले. १ ते ७ ऑगस्ट हा स्तनपान सप्ताह संपूर्ण भारतात साजरा केले जातो. आज ही स्तनपान संबंधित अनेक गैरसमज आहेत. कार्य मांची सुरुवात कर्मयोगी संत गाडगेबाबा यांना अभिवादन

करून करण्यात आली. या उप माचे संयोजक डॉ संदीप डोंगरे यांनी प्रास्ताविकातून या संवेदनशील आणि महत्त्वपूर्ण विषया प्रबोधनाची गरज आहे असे प्रतिपादन केले. स्तनपान आणि त्याचे फायदे, गरज आणि महत्त्व या संबंधी मुख्य मार्गदर्शक म्हणून प्राथमिक आरोग्य केंद्र, येवदा येथील डॉ. संजय पाटील साहेब यांनी खूप सुंदर आपले विचार व्यक्त केले. या कार्यक्रमाचे अध्यक्ष डॉ. अझिमुद्दिन सर यांनी प्रामुख्याने भारतीय समाजरचना आणि पाश्चात्य संस्कृतीचे अनुकरण या संदर्भात

प्रस्तुत विषया वर आपले विचार व्यक्त केले. या उप मा अंतर्गत स्तनपान विषयावर कु. पूजा सत्याल आणि दीक्षा गवई यांनी आपले मनोगत व्यक्त केले. या समाज उपयोगी कार्यक्रमाचे सूत्र संचालन प्रा. अर्चना माकोडे यांनी तर आभारप्रदर्शन प्रा. शुभांगी उमाळे यांनी केले. या प्रसंगी महाविद्यालयातील बहुसंख्य विद्यार्थ्यांनी ऑनलाईन उपस्थिती होती. असे राष्ट्र त्रैप सेवा योजना कार्य म अधिकारी प्रा. डॉ. संदीप डोंगरे यांनी एका प्रसिद्धीपत्रकाद्वारे कळविले आहे.

## येवदा येथे योगा दिवस संपन्न



प्रतिनिधी, २१ जून

**अकोला** - जन विकास शिक्षण संस्था येवदा द्वारा संचालित कला वाणिज्य महाविद्यालय परिसरात राष्ट्रियसेवायोजनेच्या माध्यमातून ७ वा आंतरराष्ट्रीय योग दिवस साजरा करण्यात आला. या प्रसंगी महाविद्यालयाचे प्रभारी प्राचार्य प्रा. एन. डबल्यू. हंबडे आणि राष्ट्रिय सेवा योजना कार्य म अधिकारी प्रा. डॉ. संदीप डोंगरे उपस्थित प्राध्यापक वृंद, शिक्षक कर्मचारी वृंद यांनी स्वामी विवेकानंद यांच्या प्रतिमेचे पूजन केले. या वेळी हंबडे सर यांनी आंतरराष्ट्रीय योग दिवस निमित्त दैनंदिन जीवनात योगाचे महत्त्व पटवून दिले. तसेच प्रा. डॉ. संदीप डोंगरे यांनी काही सुलभ आणि दैनंदिन सहज करता येण्याजोगे काही आसनचे प्रत्यक्षिके करून घेतली. याप्रसंगी शिवशंकर तिवाने, शेवाळे, बावनकुळे, लांडे, अनिल माकोडे, इ. नी या कार्यक्रमात आपला

सहभाग नोंदविला. यानंतर ग्रंथपाल बंड, डॉ. टेवरे, डॉ. सावरकर, प्रा. सज्जाद, किशोर रहाटे, यांनी योगाचे महत्त्व आणि उपयोग या विषयी अधिक माहिती सांगितली. या योग दिनाचे औचित्य साधून महाविद्यालयातील राष्ट्रिय सेवा योजना विभाग आणि इतिहास विभागाच्या संयुक्त विघमाने ऑनलाईन योग दिवस सामान्यज्ञान प्रश्न मंजुषा आयोजित करण्यात आली. या मध्ये गुगल ऑनलाईन पद्धतीने १०० विद्यार्थ्यांनी या उप मात सहभाग घेतला. यावेळी सर्व विद्यार्थ्यांना ऑनलाईन इ-प्रमाणपत्र वितरीत करण्यात आले. अश्या प्रकारे उत्साह पुर्ण वातावरणात ७ वा आंतर राष्ट्रिय योग दिन महाविद्यालयात सानंद संपन्न झाला. असे रा. से. यो कार्य म अधिकारी प्रा. डॉ. संदीप डोंगरे यांनी एका प्रसिद्धीपत्रकाद्वारे कळविले.

## माहिती अधिकार सप्ताहानिमित्त व्याख्यान

प्रतिनिधी, ९ ऑक्टोबर

**अकोला** - जन विकास शिक्षण संस्था येवदा द्वारा संचालित कला वाणिज्य महाविद्यालय येवदा येथील इतिहास आणि राज्यशास्त्र विभाग यांच्या संयुक्त विघमाने आयोजित एक दिवसीय ऑनलाईन राष्ट्रीय वेबिनारचे यशस्वी आयोजन करण्यात आले. ६ ऑक्टो. ते १२ ऑक्टोबर हा राज्यशासनाच्या वतीने राष्ट्रीय माहिती अधिकार दिवस म्हणून २००९ पासून साजरा केले जाते. या सप्ताह मध्ये माहिती अधिकार कायदा याचा मोठा प्रमाणावर प्रचार प्रसार व्हावा या अनुषंगाने महाविद्यालयाने विविध कार्यम आयोजित केले असून त्याच कार्यमाचा एक भाग म्हणून राष्ट्रीय वेबिनारचे आयोजन केले. माहितीचा अधिकार कायदा- आवश्यकता आणि महत्त्व या विषयावर यावेळी यशवंत महाविद्यालय शेलू, जि. वर्धा येथील सहायक प्राध्यापक



आणि राज्यशास्त्र विभाग प्रमुख डॉ. संदीप बी. काळे यांना आमंत्रित करण्यात आले होते. वक्त्यांचा परिचय आणि प्रास्ताविक डॉ. डोंगरे यांनी केले. डॉ. संदीप काळे सर यांचा पी. एच.डी चा विषय हा माहिती अधिकार कायदा असल्याने त्यांनी संबंधित विषयाला अनुसरून माहिती अधिकार कायदा आवश्यकता आणि महत्त्व या विषयावर सखोल असे मार्गदर्शन करताना भारतीय स्वातंत्र्याचा कायदा, भारतीय संविधान आणि २०१२ मध्ये लागू झालेला माहिती अधिकार कायदा २००५ हा सर्व सामान्य माणसाच्या विचारसरणी

मध्ये आमूलाग्र परिवर्तन करणारा ठरला. असे प्रतिपादन करताना या प्रसंगी त्यांनी माहिती अधिकार कायदा ची विविध कलमे आणि उपयोग या संदर्भात काही बोलके उदाहरण दिले. अरुणा रॉय यांच्या चौपाल चर्चा पासून ते अण्णा हजारे यांच्या मार्गदर्शनाखाली राष्ट्रीय पातळीवर केलेले आंदोलन, त्या अनुषंगाने झालेले इतर विसल ब्लोअर विषेयक इथ पर्यंत वक्त्यांनी आपल्या अभ्यासपूर्ण वक्तव्य चा परिचय दिला. आणि उपस्थित श्रोत्यांची मने जिंकली. या कार्यमाचे अध्यक्ष महाविद्यालयाचे प्राचार्य

डॉ. वाय. जी. सिंग यांनी कठीण डगर, परिश्रम, से मिलेगा हल, मीलेगा फल या काव्य पंक्ति सादर करून आले अध्यक्षीय भाषणामध्ये विद्यार्थ्यांनी माहिती अधिकार कायदा याचा वापर करून समाज कार्यामध्ये पुढाकार घ्यावा लागेल असे प्रतिपादन केले. या ऑनलाईन प्रबोधनपर कार्यमाचे सूत्रसंचालन डॉ. संदीप डोंगरे यांनी तर आभारप्रदर्शन या राष्ट्रीय वेबिनारचे आयोजक राज्यशास्त्र विभाग प्रमुख प्रा. व्ही. आर. राठोड यांनी केले. यावेळी महाविद्यालयाचे ग्रंथपाल डॉ. उमेश बंड, डॉ. अनुल टेवरे, डॉ. अनिल कर्जोजवार, डॉ. सुनिता सावरकर, प्रा. पी. जे. जांभुळे, डॉ. अंशुमती, प्रा. सज्जाद, डॉ. सुरेश बनमोड, प्रा. हंबडे डॉ. हेमलता डगे इ. प्राध्यापक आणि विद्यार्थी मोठ्या प्रमाणात ऑनलाईन उपस्थित होते. असे कार्यमाचे संयोजक डॉ. डोंगरे यांनी एका प्रसिद्धीपत्रकाद्वारे कळविले.

सर्

प्रतिनिधी  
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रोजगा  
ऑक्टो  
आगरे.  
याप्रम  
रोजी  
जिल्ह  
समिल  
सभाप  
योजन  
प्राचीण  
चर्चा.  
जनते  
रोजगा  
राष्ट्रीय  
योजने  
अनुषं  
कामां  
जिल्ह  
अधि  
शासन  
सकाड  
हमी २  
प्राचीण  
जिल्ह



### Annexure 11: List of interviewed staff during green audit

Green Campus Audit	Attendance Register	
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- External Audit  
 Internal Audit  
 Experience Exchange Meeting  
 Other: Green Audit

Date: 26/12/2023Location: Yeada

TOPICS:

- Art & Commerce College Yeada
- Dangapur
- 
- 

Name	Position	Signature
<u>Dr. Mohammed Azeem</u>	<u>HOD- Urdu</u>	
<u>Dr. S. B. DONGARE</u>	<u>HOD. HISTORY</u>	
<u>Dr. H. G. Dhage</u>	<u>Prof. Commerce</u>	
<u>N. W. Hambardol</u>	<u>Asst. Prof. Commerce</u>	
<u>Dr. Anil Kalejwar</u>	<u>HOD English</u>	
<u>Dr. Sayyad Sajjad</u>	<u>HOD Persian</u>	
<u>Dr. D. M. Mohod</u>	<u>HOD sociology</u>	
<u>Prof. V. R. Rathod</u>	<u>HOD Pol. Sci</u>	
<u>P. J. Tambhule</u>	<u>Marathi</u>	








Green Campus Audit	<b>Attendance Register</b>	
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- External Audit
- Internal Audit
- Experience Exchange Meeting
- Other: Green Audit

Date: 26/12/2023  
 Location: Yeoda

**TOPICS:**

- Art & Commerce College Yeoda.
- Dnyanpur
- 

Name	Position	Signature
V. B. Bawankule		
A. K. MAKode		
S. N. Tiwari		
G. G. Lande		
S. R. Shewale		
Y. S. Gawande		