

K.T. PATIL COLLEGE OF PHARMACY

Siddharth Nagar, Barshi Road, OSMANABAD- 413 501(M.S)

(Recognized by PCI New Delhi, Approved by DTE Mumbai & Government of Maharashtra)

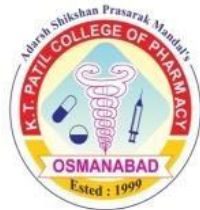
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NAAC Accredited 'B' Grade

An ISO 9001:2015 Certified Institute

■ Website: www.ktpatilpharmacy.org ■ Email: ktpatilpharmacy@gmail.com

PH (O):9421117822



Criterion 7 - Institutional Values and Best Practices

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities.

Criteria VII. Metric No. 7.1.3

DVV Query:

DVV Kindly share document including 1. the institution's environmental and energy usage policy, 2. action taken reports and achievements related to green campus initiatives, 3. audit reports, 4. a certificate from an external accredited auditing agency (preferably a government department of the affiliating university), 5. geo-tagged photos with captions and dates, and any other supporting documents related to environmental initiatives beyond the campus. 6. In case if documents are in regional language please provide translated copy in English. 7. Google drive links are not accepted.

DVV Clarification Submitted

1. The institution's environmental and energy usage policy.
2. Action taken reports and achievements related to green campus initiatives.
3. Audit reports.
4. A certificate from an external accredited auditing agency.
5. Geo-tagged photos with captions and dates, and any other supporting documents related to environmental initiatives beyond the campus.
6. In case if documents are in regional language please provide translated copy in English.
Not Applicable.
7. Removed all Google Drive Links and submitted website links if required.

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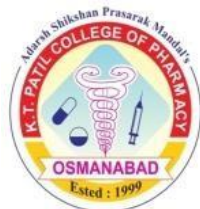
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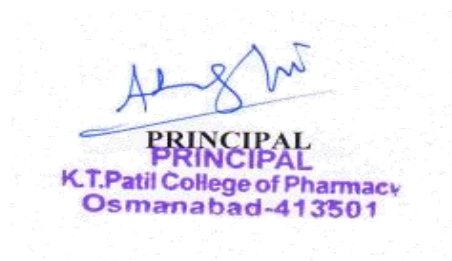
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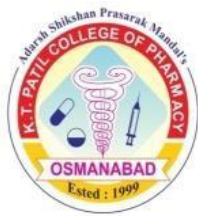


Metric No. 7.1.3: DVV Clarification

7.1.3 INDEX

Query. No.	Content Submitted	Document
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Adarsh Shikshan Prasarak Mandal's

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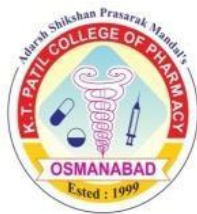
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The institution's environmental and energy usage policy.



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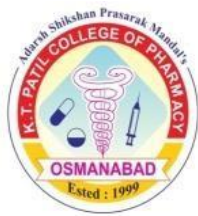
ENVIRONMENTAL POLICY

Initiated by: IQAC



Adarsh Shikshan Prasarak Mandal's

**K.T.PATIL COLLEGE OF PHARMACY,
OSMANABAD**



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Introduction:

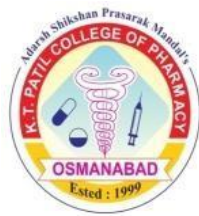
This institute consistently endeavors to foster a positive attitude among students towards the environment through various co-curricular and extracurricular activities centered on promoting a green campus and environmental policies. To promote energy efficiency and sustainability various initiatives are taken at the institutional levels including consideration of infrastructural and administrative operations.

Objectives of the Policy

- Educating students about the importance of protecting and conserving ecological systems.
- Creating awareness among students about the limited use of environmental resources and the need to conserve them for present and future generations.
- Organizing programs aimed at social development through impactful activities.
- Collaborating with the local community to promote awareness and encourage the adoption of environmental policies, thereby minimizing risks.
- Committing to improve contributions to climate protection, adaptation to climate change, and global resource conservation.
- Striving to enhance the efficient utilization of all resources, including energy and water, while reducing consumption and waste production.
- Encourage students/faculty members to create a campus free from non-degradable plastics.

Institutional Policies for Water, Energy, Environment Conservation and Waste Management:

1. **Green and Energy audit:** Institute conducts the green and energy audits periodically. Based on the audit outcomes necessary corrective and preventive actions are taken.
2. **Limited entry of vehicles**
 - Only authorized entries are permitted on the campus.



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- Heavy vehicles are prohibited from entering and part in the campus premises.
- Students/Faculty members are allowed to enter by presenting the institute ID cards.

3. The use of Bicycle/battery-powered vehicles is encouraged

- Employees and students are encouraged to utilize bicycles and e-vehicles. As well as use public transportation wherever possible.

4. Pedestrian-friendly pathways

- The institute's pedestrian-friendly pathways are designed to protect ecological systems.

5. Landscaping with trees and plants

- Enhance the number of tree plantation activities through NSS programs.
- Maintain the trees and plants within the campus by taking periodic care.
- Encourage faculty and students to keep the campus green and clean.

6. Measures for energy conservation

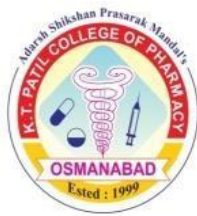
- Instructions are provided at different user points indicating measures to conserve energy. Such as turning off lights, fans, and electronic appliances when not in use to maximize their efficiency.
- Instruction to turn on power-saving modes for electronic devices like PCs and laptops while not in use. Utilization of LED bulbs or tubes should be used wherever possible. Appropriate measures while buying equipment or instruments and make sure to consider energy conservation measures.
- Promote the use of alternative energy sources.

7. Digital Library / E-Learning Centre

- Use of e-resources like e-books, online journals and soft copies over hard copies/papers wherever possible.

8. E-Communications

- Official communications through email/messaging services instead of paper as much as possible.



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- encourage the use of learning management systems and e-platforms like simulation software.

9. Waste Management:

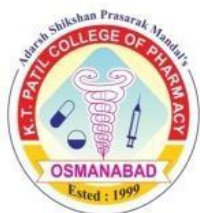
- Encourage all stakeholders to use dust bins placed at different places for waste disposal.
- Practice for segregation of various waste materials like
 - a. Solid waste
 - b. Liquid Waste
 - c. e-waste
- Practice for disposing of waste generated in laboratory waste as per appropriate measures
- Proper use and maintenance of facilities to avoid the generation of waste including e-waste.

10. Water management:

- Encourage students and faculty members to use water cautiously for experimental purposes.
- Avoid unnecessary use of water for reagent/chemical preparation if possible.
- Create facilities for rainwater harvesting within the institute.
- Use the dripping technique for watering the plants and avoid watering the plants more than required.
- Green and environmentally sustainable policies should be considered for infrastructure development and expansion.
- Regularly monitoring the plumbing system for leaks and promptly repairing any identified issues to prevent water wastage.
- Planting native and drought-resistant plants that require less water, and using mulch to retain soil moisture.

11. Guidelines for restriction on single plastic on campus.

- Encourage students and faculty members to limit the use of plastic on campus.



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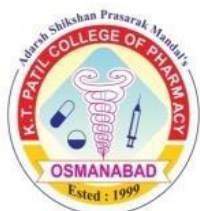
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- Disseminate about ban on Single-use plastic packing materials on college premises.
- Identification & implementation of replacements for alternative food and beverages sold in.
- Limit the use of plastic materials in curricular/extracurricular activities, stage decorations, etc.


IQAC Co-ordinator
ASPM'S K.T. Patil College of Pharmacy,
Osmanabad-413501
IQAC Coordinator




PRINCIPAL
K.T. Patil College of Pharmacy,
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Principal



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Action taken reports and achievements related to green campus initiative

ASPM's

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NAAC Accredited 'B' Grade, Recognized Ph. D Research Centre

An ISO 9001:2015 Certified Institute



Internal Quality Assurance Cell

Action Taken Report- A. Y. 2021-22

First IQAC Meeting Held on: 01.07.2021

Second IQAC Meeting Held on: 03.01.2022

Considering the IQAC MoM, the following actions were taken and address the respective outcomes

IQAC 01	IQAC 02	Initiative	Action Taken	Outcome
1.	1.	Welcome and Introduction, Reconstitution of IQAC committee	New members are added as per IQAC after the member's discussion.	New members are informed and incorporated in relevant documents.
2.	2.	CO Defining and Documentation	Mrs. Quazi R. S. has been given the responsibility of confirming and defining CO and its Documentation	The CO for each subject has been defined and documented.
3.	3.	Preparation of Academic Calendar	Ms. Sapkale G. N. has been given the responsibility to prepare an academic plan including the schedule for curricular, co-curricular, and extracurricular activities.	The academic plan includes the schedule for curricular, co-curricular, and extracurricular activities for A. Y. 2021-22.
4.	4.	Establishment of Ph.D. Research Center	Mr. Umbare R. P. and Mr. Pange S. S. have been given the responsibility of preparing and submitting a proposal for the research center.	The proposal is submitted on 12.01.2022 to Dr. BAMU, Aurangabad. The proposal has been accepted and approved. The institute received an approval letter as "Ph. D Research Centre" effective from A. Y. 2021-22.
5.	5.	Encouraging Higher Education for Faculty Members	Dr. Joshi A. A. has been given responsibilities to encourage	Six faculty members have been registered for Ph.D. The details are as



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			faculty members to acquire higher education Ph. D.	follows 1. Ms. Rubiya S. Quazi (R. No.-15558 10/03/2022) Dr. BAMU Aurangabad 2. Ms. Rajmane.B.Ragini (R. No.-15571 10/03/2022) Dr. BAMU Aurangabad 3. Mrs. Dhanshri J. Desai (R. No.-26350 10/03/2022) Dr. BAMU Aurangabad 4. Ms. Sushma G. Panchal (R. No.-23832 10/03/2022) Dr. BAMU Aurangabad 5. Mrs. Swati S. Londhe (R. No.-33321 10/03/2022) Dr. BAMU Aurangabad 6. Mr. Nadim Khan (R. No. 090122690 Dec. 2021) Sunrise University Alwar
6.	6.	Certificate Courses for Students	Ms. Sapkale G. N. has been given responsibility for planning, conducting, and documenting the Certificate Courses.	The following certificate courses are completed by the 218 students in A. Y. 2021-22. 1. Basic Course in Biochemical Research 2. Learn Pharmacovigilance- A 360 Degree Foundational View 3. Certificate Course in Pharmacovigilance 4. The Pharmaceutical R & D Process in Healthcare 4. Drug Development and Pharmaceutical R & D Business Framework 5. India Pharma Industry Course: Basics + Relevant Concepts 6. Certificate Course in Drug Regulatory Affairs (DRA) 7. Certificate Course in Clinical Research (CCCR)



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7.	7.	Organization of E-International FDP	Mr. Umbare R. P. has been given responsibility for planning, organizing, and conducting the E-International FDP	8. Industrial Pharmacy-I 9. Life Skill Development Program The "E-International FDP on Herbal Medicine Research & Global Health: A Therapeutic Perspective" was organized on Mon-Fri dated 9/2/2022 to 14/02/2022. A total of 1068 have been registered for the FDP.
8.	8.	Expert Sessions for NAAC/NBA Preparation	Mr. Pange has given the responsibility of identifying potential speakers and planning the activity.	"One day National Webinar on NBA-Overview of self-assessment report & documentation" was conducted on Saturday dated 26/06/2021 total of 164 participants attended the same.
9.	9.	Training Sessions for Office/Technical Staff	Ms. G. N. Sapkale has been assigned the responsibility of planning these training sessions for the office and technical staff.	The One-day training program on "Admission Process and Document Maintenance" was conducted on 14/07/2021 total of 08 staff attended the same. A one-day workshop on "Maintenance of Laboratory Documents" was conducted on 16/02/2022 total of 13 staff attended the workshop.
10.	10.	Initiate Green Audit for the Institute.	Mr. Shinde M. U and Mr. Mali S. V. have been given responsibilities for submitting necessary documents for Energy/Green audit certifications.	The Green and Energy Certification for A. Y. 2021- 22 has been received.
11.	11.	Soft Skill Development Programs for B. Pharm Final Year Students:	Mr. Shinde M. U. has been given the responsibility to coordinate the activity.	Life Skill Development Program has been conducted from 13/06/2022 to 15/06/2022. A total of 110 students have completed the soft skill development program.
12.	12.	Research Publications	Dr. Birajdar A. S. has been given responsibilities to encourage and maintain documents of research activities.	1. Dr. Gunjegaonkar S. M & Dr. Joshi A. A. published a book chapter entitled "Potential Defensive Involvement of Methyl Jasmonate in Oxidative Stress and Its Related Molecular Mechanisms



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				Intech Open 978-1-80355-028-2 2. Dr. Gunjegaonkar S. M & Dr. Joshi A. A. published a book chapter entitled 'Recent Updates on Methyl Jasmonate- a Potent Phytohormone, IOT Academy Publishers 978-9393622167. 3. A total of 23 research papers have been published in A. Y. 2021-22.
13.	13.	Deputation of Faculty Members for QIP	Ms. Sapkale G. N. has been given the responsibility to maintain the documentation of the same.	The following are details of QIP attended by the faculties 1. Online one-week STTP on STTP B: Advances in pharmaceutical research dated 14/06/2021-19/06/2021 2. STTP on Pedagogy for Effective Use of ICT in Pharmacy dated 21/6/2021-26/6/2021 3. STTP Computational Tools for Pharmaceutical Development dated 28/6/2021-3/7/2021 4. ATAL FDP on Artificial Intelligence In Drug Repurposing & Polypharmacology dated 20/9/2021-24/9/2021 5. ATAL FDP on Innovation, Startup and Entrepreneurship Management dated 13/09/2021 to 17/09/2021 6. ATAL FDP on Stress Management: A Key for Personal & Professional Excellence dated 18/10/2021-22/10/2021 7. ATAL FDP on NEP 2020: Managing Change in Organisations dated 20/09/2021- 24/09/2021 8. ATAL FDP on Effective OBE Implementation using Learning Management System dated 27/07/2021-31/7/2021



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			9. One-week AICTE sponsored QIP on In Silico approach in drug delivery dated 11/6/2021-17/6/2021 10. One-week STTP on STTP B: Advances in Pharmaceutical research: A Journey from academics to industry dated 14/06/2021-19/6/2021
14.	14.	Student Participation in Competitions/Seminars/Conferences:	1. WHO Course organized by WHO, Organization mondiale de la Sante, weltgesundhee its organisation, Europe 11/06/2021 2. Case Processing in Pharmacovigilance, Vigi Serve Foundation 18/06/2021 3. Third online State level Poster Presentation Competition, Gurukrupa Institute of Pharmacy, Majalgaon 07/07/2021 4. 5th Series National Webinar, SGMSPM's Sharadchandra Pawar College of Pharmacy, Otur Pune. 08/07/2021 5. Skills expected in a hospital setting from pharm D. Graduates, RVS College of Pharmaceutical Science, Coimbatore. 06/08/2021 6. AICTE sponsored Decennial National Conference on Recent trends in Industrial Pharmacognosy-2021, Mother Theresa Post Graduate & Research Institute of Health Sciences, 03/09/2021 7. National level e-Poster competition, Y. B. Chavan College of Pharmacy, Aurangabad, 21/08/2021 8. Coloring Competition, Pharmacy Association of Andhrapradesh (Clinoxy) 24/09/2021

Ms. Sapkale mam has been given the responsibility of ensuring maximum student participation.



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				9. Digital Poster-Making Competition Elixir Institute of Pharmacy, Pune. 25/09/2021 10. Reels making competition, Elixir Institute of Pharmacy, Pune. 20/09/2021 11. Online National level e-poster presentation competition, ACS's College of Pharmacy Ashti & College of Pharmaceutical Science & Research Ashti. 25/09/2021 TO 30/09/2021 12. National-level Scientific Poster presentation, Delonix Society's Baramati College of Pharmacy, Barhanpur, Baramati. 25/09/2021 13. Hand Drawn Poster competition, Elixir Institute of Pharmacy, Pune. 25/09/2021 14. National level quiz Competition, Bharati Vidyapeeth College of Pharmacy, Kolhapur, Maharashtra. 22/10/2021 15. National Webinar - Pulla Reddy Institute of Innovations in Pharmaceutical Interventions Pharmacy, Dommadugu, Hyderabad. Sept. 2021
15.	15.	Research Project Competition 2022	Dr. Gunjegaonkar S. M. has been given the responsibility of planning and conducting activities about inculcating research aptitude in students and faculty.	"Research Project Competition-2022" was organized on 19.06.2022.
16.	16.	Industrial Visit for B. Pharm final year students	Mr. Shinde M. U. TPO has been given responsibility to plan and conduct the industrial visit.	Industrial Visit at Haffkine Biopharma Corporation Limited, Pune organized on 24.06.2022 for B. Pharmacy Final Year students.



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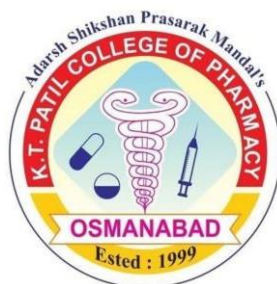
		Plan activity under MoU	Mr. Sandip Gavandi has been given the responsibility of organizing the visit.	1. Visited Dairy/food Processing industries at Natural Sugar and Allied Industries Ltd. Ranjani was organized on 12/03/2022 2. Two students has completed in-plant training at Aditi Pharmaceuticals, MIDC, Solapur in A. Y. 2021-22
18.		Expert session for students.	Ms. Ragini Rajmane B. and Mrs. Quazi R. S. have been given the responsibilities to plan and conduct the expert session for A. Y. 2021-22	1. Personal Counseling on "Gender Sensitization" 07/08/2021 2. Campus to Corporate 26/08/2021 3. Biopharmaceutical Consideration for GPAT 21/01/2022 4. GPAT-2022 preparation & Guidance 24/01/2022 5. How to Crack GPAT & NIPER-2022 05/02/2022 6. How To Attract What You Want 17/02/2022 7. Personal Counseling on "Scope of Pharm D in Clinical Research" 16-04-2022
19.		a session for students "Manifest Your Desires: Strategies for Attraction"	Mr. Alkunte A. S. has given responsibility to plan conduct the session.	"How To Attract What You Want" was conducted on 17/02/2022.

Mr. Parag S. S.
Coordinator, IQAC
IQAC Co-ordinator
ASPM'S K.T. Patil College of Pharmacy,
Osmanabad-413501

Dr. Joshi A. A.
PRINCIPAL
K.T. Patil College of Pharmacy,
Osmanabad-413501

Audit reports.

GREEN AUDIT REPORT (2022-2023)



Adarsh Shikshan Prasarak Mandal's

K. T. Patil College of Pharmacy, Osmanabad



SAHYAGIRI ENTERPRISES

Kalpataroo Building, Near Ram Mandir, Ward No.2 JathTaluka- Jath, Dist- Sangli

416404 Phone: 91-9028075073 Email: sahyagirienterprises@gmail.com

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Our special thanks to:

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- ♣ Green Audit coordinator– Mr. Mahesh U. Shinde
- ♣ Teaching & Supporting Staff of College

For giving us necessary inputs to carry out this very vital exercise of Green Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

2.0 DISCLAIMER

Sahyagiri Enterprises Green Audit Team has prepared this report for K.T. Patil College of Pharmacy based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

It is further informed that the conclusions 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.

Sahyagiri Enterprises and its staff shall keep confidential all information relating to your organisation and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies. Sahyagiri Enterprises staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.



Report by: Mayuri M. Jadhav

3.0 CONCEPT

Green Audit is defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The ‘Green Audit’ aims to analyse 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 organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit. Green audit is assigned to the criteria 7 of NAAC, (National Assessment and Accreditation Council) which is a self-governing organization of India which declares the institutions as Grade A, B or C according to the scores assigned during the accreditation.

4.0 INTRODUCTION

A Nation's growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. Educational institutions now days are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. To preserve the environment within the campus, various viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the energy savings, recycle of waste, water reduction, water harvesting etc. The activities pursued by colleges can also create a variety of adverse environmental impacts.

Environmental auditing is a process whereby an organization's environmental performance is tested against its environmental policies and objectives. Green audit is defined as an official examination of the effects a college has on the environment. As a part of such practice, internal environmental audit (Green Audit) is conducted to evaluate the actual scenario at the campus.

Green audit is a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. Green auditing and the implementation of mitigation measures is a win-win situation for all the college, the learners and the planet. It can also create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus.

Green auditing promote financial savings through reduction of resource use. It gives an opportunity for the development of ownership, personal and social responsibility for the students and teachers. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the



world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system. Hence Sahyagiri Enterprises has developed a compatible system by developing locally-applicable techniques.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance.

This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.

5.0 OVERVIEW OF INSTITUTE

Adrash Shikshan Prasarak Mandal' has blazed a trail and set an unparalleled example in south. Today ASPM runs 21 educational institutes with an assets base of Rs.50 crore and manpower in excess of 5600 employees. ASPM's K. T. Patil College of Pharmacy was established in 1999 with its vision & object to provide elaborate & liberal facility for education & training in diverse disciplines of knowledge in pharmacy.

The college of pharmacy was established in the pleasant and peaceful environs of Osmanabad. Situated on a lush, verdant 10 acre campus, the college began by offering a B. Pharmacy course started in 1999, M. Pharmacy course (Pharmaceutics and Quality Assurance Techniques) in 2010 & Pharm D course (Doctor of Pharmacy) in 2017.

College is approved by AICTE & PCI, New Delhi and Government of Maharashtra. Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. The college has been accredited by NAAC with 'B' Grade up to 2023.

College provides instructions to the students for four year degree course B. Pharmacy and 2 year diploma course D. Pharmacy. The college, right from its inception has shown academic excellence and students have won meritorious awards and have maintained top ranks in the University examinations as well as in extra-curricular activities. Total Student strength of college is 612. College has total 36 teaching staff and 35 non-teaching staff. College has highly qualified staff.

The infrastructure of a college plays a vital role in the development of the college as the students are now focusing on the labs, class rooms, etc. while selecting a college. It is important that the college has very good infrastructure with ICT Based Classrooms, Specious Labs, I.Q.A.C Department, NSS, Separate Canteen, Playground and Store Rooms etc. Various indoor and outdoor games are conducted by college.

The college has also adopted the 'Green Campus' system for environmental conservation and sustainability. The goal is to reduce CO₂ emission, water use while creating an atmosphere where students can learn and be healthy.



6.0 AUDIT OBJECTIVES AND SCOPE

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

- To introduce and aware students to real concerns of environment and its sustainability.
- To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use on the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
- Developing an environmental ethic and value systems in young people.
- Improving environmental standards.
- Benchmarking for environmental protection initiatives.
- Enhancement of College profile.

7.0 EXECUTIVE SUMMARY

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development.

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes out-dated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

A.G. Patil Institute of Technology done internal green assessment and annual reports published for continual improvements; QS Programme and doing their bid towards environmental protection and environmental awareness at local and global front.

The methodology include: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. It works on the several facets of ‘Green Campus’ including Water Conservation, Tree Plantation, Waste Management, Paperless Work, Alternative Energy and Mapping of Biodiversity.

This audit report contains observations, appreciations and recommendations for improvement of environmental consciousness.

8.0 METHODOLOGY

In order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarize the present status of environment management in the campus:

- Waste Management
- Energy Conservation
- Water Conservation
- Green area management/biodiversity survey
- Noise, Ventilation and Illumination study
- Carbon Footprint
- Best Practices for Environment

9.0 OBSERVATIONS, APPRECIATIONS AND RECOMMENDATIONS

9.1 WASTE MANAGEMENT

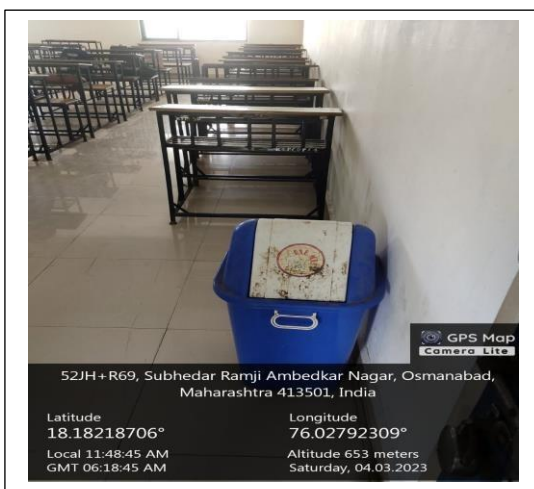
This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc. and recycling. Furthermore, solid waste often includes wasted material resources that could otherwise be channeled into better service through recycling,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

A) Observations:

The total organic waste collected in the campus is 20 kg/month. Waste generated from canteen and garden is a major solid waste in the campus. Near about 5 kg/month of non-biodegradable waste is generated in the campus including glass bottles. Near about 25-30 lit/day chemical waste is generated from laboratories. The waste is segregated at source by providing separate dustbins for Bio-degradable, Non-Bio-degradable. Single sided used papers reused for writing and printing in all departments. Approx.1 kg/month plastic waste is generated by departments, office, garden etc. but it is neither categorized at point source nor sent for recycling. College has E-waste collection centre. The food waste from canteen is sent to composting. The institute has adopted one composting unit in campus having capacity of 200 kg and size 6"x3"x2". The main purpose of this is to breakdown & decomposes all kind of organic waste by using microorganisms that require oxygen. called compost. After complete process of composting, it is used as manure in the garden.



Composting Unit



Dustbins are provided throughout the college premises for waste collection



Dustbins are provided in the laboratories for Degradable and Non-Degradable waste



E-waste collection centre

B) Appreciations:

- Each and every place of campus is provided with dustbin.
- Laboratory waste is properly disposed in septic tank.

- E-waste is collected.
- Reuse of paint buckets as a dustbins in the campus.
- Paper waste generated from office, laboratories and departments are transported to the vendors for recycling.
- Every department and office tries to reduce consumption of paper.
- College reuses empty side of printed paper.

C) Recommendations:

- Make full use of all recycling facilities provided by City Municipality and private suppliers, including glass, cans, plastic bottles, batteries, print cartridges, cardboard and furniture.
- Provide sufficient, accessible and well-publicized collection points for recyclable waste with responsibility for recycling clearly allocated.
- Collected E-waste should supply to E-waste management and disposal facility in order to dispose E-waste in scientific manner.

9.2 WATER CONSERVATION

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

A) Observations:

The study observed that bore well water and corporation water is main sources of water in the campus. Water is used for drinking, canteen, toilets, laboratory and gardening purpose. During the survey, no loss of water is observed, through leakages and no over flow of water from overhead tanks. The data collected from all the departments is examined and verified. On an average the total use of water in the college is 6,000 L/day, which include 4,500 L/day for domestic purposes, 1,000 L/day for gardening and 5,00 L/day for different laboratories. College has 2 R.O systems having capacity 100 LPH and 50 LPH. The college has not rain water harvesting facility in a campus. Water used for drinking purpose analyzed as per IS 10500:2012 drinking water specification and observed it was potable.

Daily Water Consumption

Parameter	Quantity	Total water consumption
Total tanks	12	6 m3
Garden water consumption	1 m3	
College building water consumption	3 m3	

R.O. water consumption

2 m3



R.O. System

Water Sample Analysis Report

Sr. No.	Parameters	Results	Acceptable Limit as per IS 10500: 2012	Units
1.	Colour	< 1	Max. 5	Hazen Units
2.	Odour	Agreeable	Agreeable	-
3.	pH	7.01	6.5-8.5	-
4.	Turbidity	0.5	Max. 1	N.T.U.
5.	Total Dissolved Solids	84	Max.500	mg/L
6.	Calcium (as Ca)	15	Max.75	mg/L
7.	Chloride (as Cl)	13	Max.250	mg/L
8.	Fluoride (as F)	< 0.03	Max.1	mg/L
9.	Iron (as Fe)	<0.04	Max.0.3	mg/L
10.	Magnesium (as Mg)	6	Max. 30	mg/L
11.	Alkalinity (as CaCO ₃)	27	Max.200	mg/L
12.	Nitrate (as NO ₃)	5.12	Max. 45	mg/L
13.	Sulphate (as SO ₄)	2.85	Max.200	mg/L
14.	Total Hardness (as CaCO ₃)	53	Max.200	mg/L
15.	E. coli	Absent	Not Detectable	/100 ml
16.	Total Coliforms	Absent	Not Detectable	/100 ml

B) Appreciations:

- Water is properly used in the campus and water reusing strategy is followed by the college.
- R.O. reject water is reused for washrooms.
- Rain water is collected and reused for gardening purpose.

- Waste water from R.O. is reused for gardening purpose.
- Waste water generated from campus is collected in septic tank.

C) Recommendations:

- Year wise water consumption report.
- Maintenance of R.O. system is necessary.
- Provide leakage free water taps.

9.3 ENERGY CONSERVATION:

A) Observations:

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

Energy source utilized by all the departments and common facility center is electricity only. Maximum energy consumption is by major energy consuming equipment.

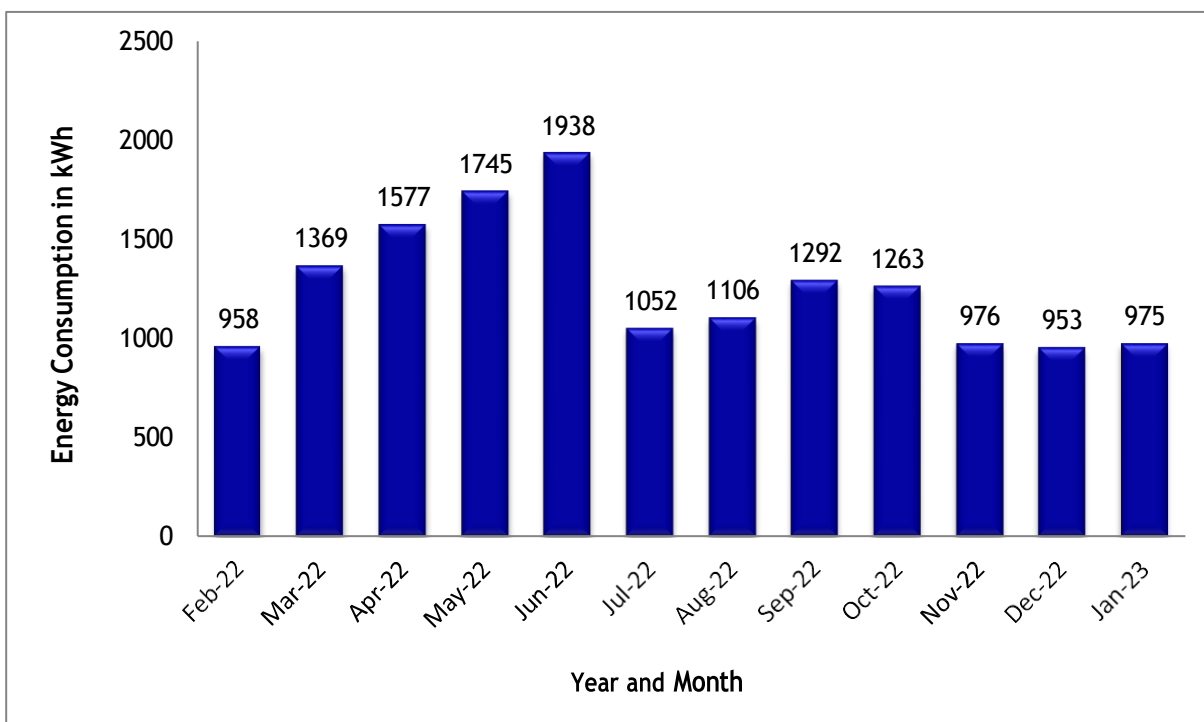
All the departments and common facility centers are equipped with LED lamps. Approximately 55 computers, 15 printers, 30 bulbs, 30 fans, 70 tubes, 4 projectors, 4 A.C with 5 star rating, 2 xerox machine these all are observed during the survey. Equipment like Computers is used with power saving mode. Also, campus administration runs switch-off drill on regular basis. In various labs after completion of work, electricity was shut down; it is one of the practices for energy conservation.

The campus imports electricity from Maharashtra State Electricity Distribution Co. Ltd. The total electricity that was imported by the college during the year 2022-2023 is as shown below. Total 12 month's energy consumption of the campus is presented below for the year 2021-2022. The graph shows that institute requires more electricity and it costs too much. If instate install solar panels then it will saves electricity charges.



Solar Distillation Plant

Month	Energy Consumption in units
February-2022	958
March-2022	1369
April-2022	1577
May-2022	1745
June-2022	1938
July-2022	1052
August-2022	1106
September-2022	1292
October-2022	1263
November-2022	976
December -2022	953
January-2023	975
Avg.	1267

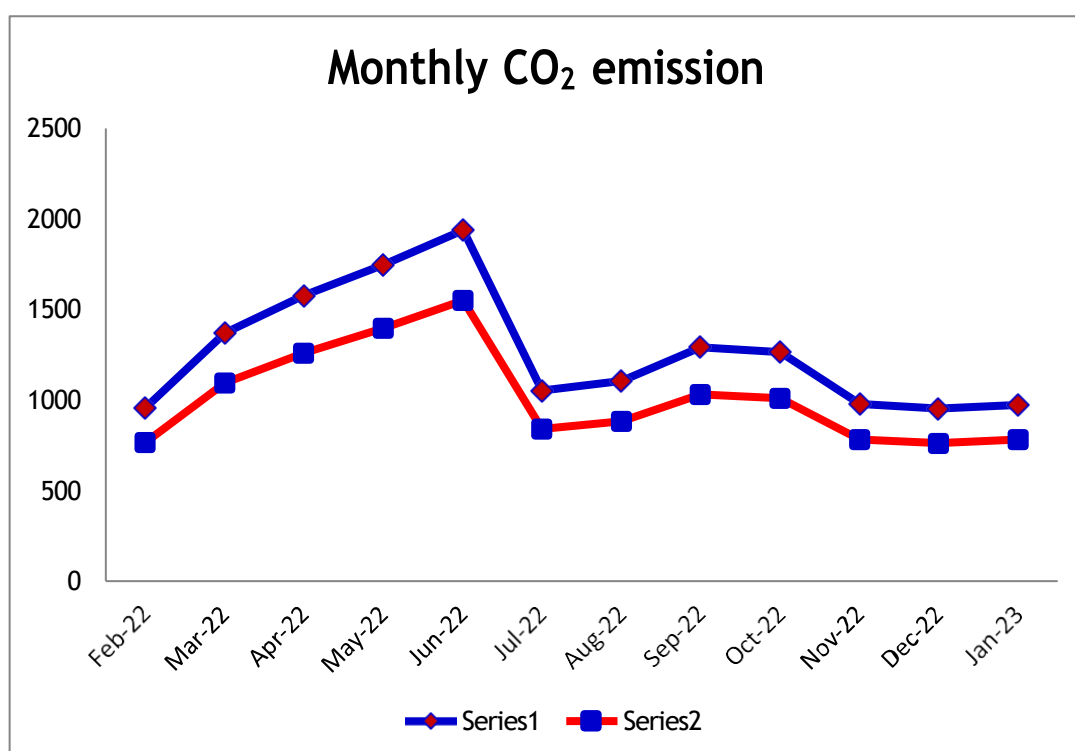


CARBON- DIOXIDE EMISSION

For consumption of 1 Unit (1 kWh) of Electricity, the CO₂ emitted is 0.8 Kg. OR the Emission is 0.8 Kg/kWh. In the following Table we present the total units consumed and CO₂ emitted as under:

Sr.No.	Month	Energy consumption (kWh)	CO ₂ emitted in kg
1	February-2022	958	766.4
2	March-2022	1369	1095.2

3	April-2022	1577	1261.6
4	May-2022	1745	1396
5	June-2022	1938	1550.4
6	July-2022	1052	841.6
7	August-2022	1106	884.8
8	September-2022	1292	1033.6
9	October-2022	1263	1010.4
10	November-2022	976	780.8
11	December -2022	953	762.4
12	January-2023	975	780
13.	Avg.	1267	1013.6



B) Appreciations:

- Appreciate that college has 5 & 3 star electrical appliances like A.C.
- Campus is well equipped with LED lamps.
- Appreciate that college has solar distillation plant having capacity 25 LPD. It saves up to 4562.5 units per year.
- It saves 3650 kg of CO₂ per year.

C) Recommendations:

- Try to install solar street light throughout the campus.
- Installation of solar power plant is necessary.

9.4 GREEN AREA MANAGEMENT/BIODIVERSITY SURVEY

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

A) Observations:

To create- green cover, eco-friendly atmosphere, pure oxygen at the college campus, plantation program is organized every year with involving all students, principal and all departments faculty members.

Campus is located in the vicinity of approximately 50 (species) of trees total no. 100, 25 (species) of shrubs total no.60 and grass cover. Approximately 15 species of birds, 8 species of mammals and 4 species of reptiles are found in the campus. Various tree plantation programs are being organized during the month of July and August at college campus and outside the college campus. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among students and staff members. The plantation program includes plantation of various type of indigenous species of ornamental and medicinal as well as wild plant species under the biodiversity and ecological survey. The Institute has a policy of gift a plant to guests in any program. It is a good thing for environment.





Green Campus

B) Appreciations:

- Appreciate that the college has well developed Botanical Garden.
- Appreciate that the college has variety of trees, bushes & shrubs.
- Appreciate that college celebrates 1st June as 'Krushni Din', every year and plant trees on this day to make the campus Greener.
- Appreciate that college celebrates 5th June as 'Environment Day', every year and plant trees on this day to make the campus Greener.

C) Recommendations:

- Review periodically the list of trees planted in the campus and keep records.
- Try to plant more trees in the campus.
- Promote environmental awareness as a part of course work in various curricular areas, independent research projects and community services.
- Ensure that an audit is conducted annually. And action is taken on the basis of audit report and recommendation and findings.

9.5 NOISE, VENTILATION AND ILLUINATION MONITORING

1. Noise Study:

The noise levels measurements were carried out using Noise level meter. The Noise level survey was carried out at two locations, at outside as well inside the study area campus. The major source of noise identified in the study area has been predominantly the vehicular movement and the transportation activities.

Location	Time	1	2	3	4	5	Noise Level Readings dB (A)
Outside	11:35	79.1	68.5	70	54	49	64.12

	12:35	70	60	62	60	58	62
Inside	11:40	65.5	54.5	61	61	58	60
	12:40	62	62.4	60.3	64	60	61.74

As per The Noise Pollution (Regulation & control) Rules, 2000 (Rules 3(1) and 4(1))

Area Code	Area Type	Limits in dB(A) weighted scale	
		Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
B	Commercial	65	55



Noise Level Monitoring Outside the Campus



Noise Level Monitoring Inside the Campus

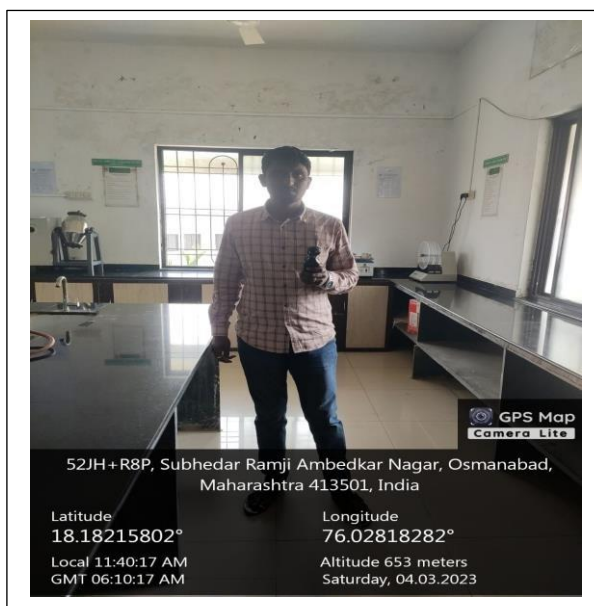
Observation:

All results of Noise level monitoring (Inside & Outside) found within limits as per the Noise Pollution (Regulation & control) Rules, 2000.

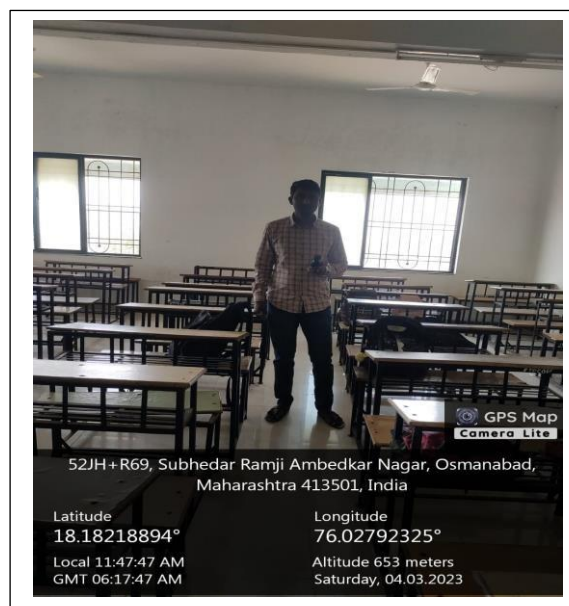
2. Ventilation Study:

The ventilation study was carried out by using anemometer. The study was carried out in classroom.

Sr. No.	Name of Location	Temperature (° c)	Air velocity (m/s)
1.	Classroom	28.5	1.1
2.	Laboratory	27.8	1.4



Ventilation Monitoring in Classroom



Ventilation Monitoring in Laboratory

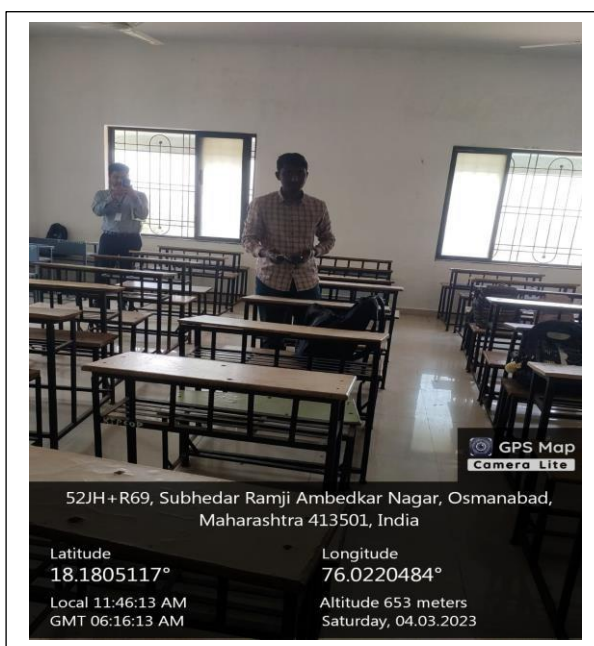
Observation:

All results of ventilation study (classroom & Laboratory) found within limits as per Factory Act 1948, Rule 22-A.

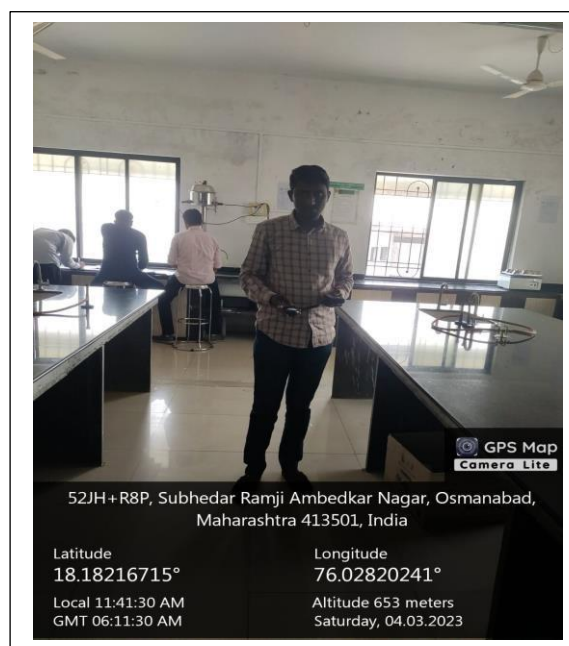
3. Illumination Study:

The Illumination Study was carried out using Lux meter. And it was carried out in classroom.

Sr. No.	Location	Time	Lux Level Reading (LUX)				Average Lux
			1	2	3	4	
1.	Laboratory	11:30	305	450	402	380	384.25
2.	Classroom	12:00	226	299	231	278	258.5



Illumination Monitoring in Classroom



Illumination Monitoring in Laboratory

Observation:

All results of Illumination Study (Classroom& Laboratory) found within limits as per MF Rules-Section-35, Schedule B.

9.6 CARBON FOOTPRINT

A carbon footprint (CF) is the total amount of greenhouse gases (including carbon dioxide and methane) that are generated by our actions.

A carbon footprint is an estimate of the climate change impact of activity – such as making a product, living a lifestyle or running a company.

There are many existing and evolving standards for calculating carbon footprints but in truth no footprint is precise. For more complicated activities these uncertainties are greatly multiplied.

a) Carbon Emissions:**List of carbon emissions**

Classification/Scope	Sources	Description
Scope 1 (Direct)	Equipments usage	LPG
Scope 2 (Indirect)	Electricity Use	K. T. Patil College of Pharmacy uses electricity to heat, cool, light, and run appliances at its facilities.
Scope 3 (Indirect)	Employee commuting	Employees commute from their residences to the college

Emission Data and Calculations:

- Scope 1 – All Direct Emissions from the activities of an institution or under their control. Including fuel combustion on site such as gas, etc.

Scope 1 Emissions

Type of Fuel	Quantity	Emission Factor	KgCO ₂ /month
LPG	300 kg/month	2.983	894.9
TOTAL SCOPE 1 EMISSIONS			894.9 kgCO₂/month

- Scope 2 – Indirect Emissions from electricity purchased and used by the institution. Emissions are created during the production of the energy and eventually used by the organization.

Emissions from Purchased electricity:**Indirect Emissions /scope 2 emissions**

Type of Emission	Quantity	Emission Factor	KgCO ₂
Emissions from Purchased electricity	1267 kWh/month	0.97	1228.99 KgCO ₂ /month
TOTAL SCOPE 2 EMISSIONS			1228.99 KgCO₂/month

- Scope 3 – All Other Indirect Emissions from activities of the institution, occurring from sources that they do not own or control.

A. Employee Transportation: Increase in student intake can lead to increased greenhouse gas (GHG) pollution caused by the resulting growth in vehicular traffic, energy use, and other activities. This unit seeks to identify the impact on global climate change through its emissions of greenhouse gases (GHGs), notably carbon dioxide (CO₂). Transportation is the fastest growing major contributor to global climate change, accounting for 23% of energy-related carbon dioxide (CO₂) emissions.

Fuel Consumption through Staff Transportation

Mode of transportation	Daily Count	Travelling distance (km/Vehicle) (to and fro)	Total Km	Emission Factor	Kg CO ₂
2 wheeler (teachers)	40	10	400	0.0319	12.76
4 Wheeler (Cars)	05	10	50	0.13	6.5
Public Transport	02	20	40	0.01516	0.6064
TOTAL					19.8664
					KgCO₂/day
					595.992
					KgCO₂ /month

Fuel Consumption through students Transportation

Mode of transportation	Daily Count	Travelling distance (km/Vehicle) (to and fro)	Total Km	Emission Factor	Kg CO ₂

2 wheeler (teachers)	150	10	1500	0.0319	47.85
Public Transport	3	20	60	0.01516	0.9096
TOTAL					48.7596
					KgCO2/day
					1462.788
					KgCO2 /month

B) Solid Waste Generation:

Dry Solid Waste Generation

Wet waste generated	Emission factor	Total Kg CO2
20 kg/month	0.21	4.2 KgCO2 /month

Total emissions throughout a year

Total emissions throughout a year

Reporting Year	Total Emissions (kg CO2 /month)	Total Emissions (kg CO2 /year)
2022	2062.98	24755.76

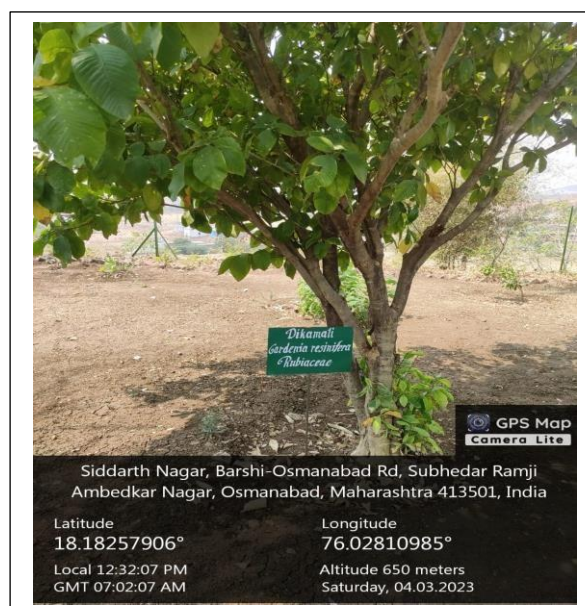
C) Recommendations:

- Make sure most teachers and students opt for public transport instead of using personal vehicle.
- Use as much renewable sources of energy as you can.
- Reduce the waste generated by all departments.
- For reducing Carbon Footprint of the college, try to conduct 'No Vehicle Day' on every Saturday.

10. BEST PRACTICES FOR ENVIRONMENT

1. Biodiversity Conservation:

- ♣ They have green campus which provides habitat to various species.
- ♣ They maintain flora and fauna in the campus.
- ♣ They have well developed Medicinal Plant Garden with name plate.



2. Tree Plantation Drives and Days Celebrations

- ♣ Periodically the plantation drives conducted by students and staff of campus.
- ♣ Every Guest is honored by tree at campus.
- ♣ World Environment Day, Wetland Day, Ozone Day, Krushi Din etc. celebrated by students and staff every year.
- ♣ College has Eco Club.
- ♣ To create awareness among the students campus is provided with different Environmental Slogans.



3. Solid Waste Management

- ♣ Different mechanisms for proper disposal of biodegradable, non-biodegradable and MSW are implemented in campus.

- ♣ Cleanliness drives are arranged by college.

4. Water Conservation

- ♣ Water saving push taps fitted in the drinking water zone and the toilets to avoid the wastage of water.
- ♣ Sign boards for awareness of environment are there in the campus.

11. OVERALL RECOMMENDATIONS

- Formation of Environment Policy and communicated to all faculties and other staff members.
- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Water monitoring) need to be conducted by approved laboratory with frequency of six month.
- Reduction in use of paper work by go digital system.
- Need of installation of roof top solar panels.
- Need of implementation of rain water harvesting and drip irrigation.
- Increase in Environmental promotional activities for spreading awareness at campus.
- As practically feasible avoid use of personal vehicles inside the campus.
- Need of E-waste management is necessary.



12. CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. The K.T. Patil College of Pharmacy has Environmental Committee for sustainable use of resources. The audit has identified several observations for making the campus premise more environmental friendly. The recommendations are also mentioned with observations for campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. The paperless work system, green campus management, solid waste management, rain water harvesting system, composting unit and water conservation practices are noteworthy.

As part of green audit of campus, we carried out the environmental monitoring of campus which includes Illumination, Noise level, Ventilation monitoring and Water Testing which is used for drinking purpose in the campus. It was observed that Illumination and Ventilation is adequate considering natural light and air velocity present. Noise level in the campus is well within the limit i.e. below 65 dB at day time. Drinking water also analyzed and found it was potable.

There are some major observations like installation of solar panels are necessary, try to create plastic free campus and implementation of drip irrigation and rain water harvesting is necessary. And few minor things are important to initiate urgently are waste management records by monthly inventory, water balance cycle and periodic inspection of buildings housekeeping and environment policy.



ENERGY AUDIT REPORT

(2022-2023)



Adarsh Shikshan Prasarak Mandal's

K. T. Patil College of Pharmacy, Osmanabad



Prepared By



SAHYAGIRI ENTERPRISES

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1.0 ACKNOWLEDGEMENT

Sahyagiri Enterprises Green Audit Team thanks the management of ASPM's K.T. Patil College of Pharmacy, Osmanabad for assigning this important work of Energy Audit. We appreciate the co-operation to our team for completion of study.

Our special thanks to:

- ♣ Principal of the college – Dr. Amol A. Joshi
- ♣ IQAC Head – Mr. Sudhir S. Pange
- ♣ IQAC Member – Mr. Ramraja P. Umbare
- ♣ Environment Expert at the campus – Mr. Mahesh U. Shinde
- ♣ Energy Audit coordinator– Mr. Mahesh U. Shinde
- ♣ Teaching & Supporting Staff of College

For giving us necessary inputs to carry out this very vital exercise of Energy Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

2.0 DISCLAIMER

Sahyagiri Enterprises Green Audit Team has prepared this report for K.T. Patil College of Pharmacy, Osmanabad based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

It is further informed that the conclusions 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.

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Report by: Mayuri M. Jadhav

EMS Lead Auditor

3.0 SUMMARY

The objective of the audit was to study the energy consumption pattern of the facility, identify the areas where potential for energy/cost saving exists and prepare proposals for energy/cost saving along with investment and payback periods.

The salient observations and recommendations are given below.

1. K.T. Patil College of Pharmacy, Osmanabad uses energy in the following forms:
 - a) Electricity from MSEDCL
 - b) High Speed Diesel (HSD)
2. Electrical energy is used for various applications, like Computers, Lighting, Air-Conditioning, Fans, Other Lab Equipment
The average energy consumption is around 1267 kWh/Month.
3. The Specific Energy Consumption (SEC) is the ratio of energy required per square meter. In this case the SEC is evaluated as electrical units consumed per square meter of area. It is calculated as under: For Electricity: 0.34 kWh/Sq m
4. It has found that there is wide scope for energy saving and pollution free campus development. Recommendations with cost benefit analysis have given in detail in report.

4.0 INTRODUCTION OF ENERGY AUDIT

An energy audit is a process to study of a building or industry to know the energy consumption of the building and identify methods to reduce the energy consumption for energy savings. In Commercial Building, the present electrical consumption is about 8-10 percent of the total electricity. To meet the international level comfort and facilities the electrical demand is increasingly by 11-12 % annually. This is a challenge for every industry to ensure that energy growth in commercial building does not become unmanageable but also give and presents an opportunity to influence and identifies energy management issues in various commercial buildings and facilities. As the natural resources are limited and energy uses are increasingly very sharply so it is very necessary to save natural resources by reducing energy consumption which can be achieved by using energy efficient equipment's and also by awareness of peoples about energy conservation .Energy audit in industrial and commercial, is the process to identifying opportunities to reduce carbon footprints and energy conservation.

GENERAL

For K.T. Patil College of Pharmacy, Osmanabad entrusted the work of conducting a Detailed Energy Audit of campus at Sangli with the main objectives as below:

- To study the present pattern of energy consumption
- To identify potential areas for energy optimization
- To recommend energy conservation proposals with cost benefit analysis.

Case Study in Campus:

We are taking this opportunity to express our heartily gratitude to K.T. Patil College of Pharmacy, Osmanabad for giving opportunity for carrying Energy Audit in campus We once again put up our appreciation for full cooperation & valuable guidance for perfect auditing of the Campus to technical as well as commercial persons for providing all the required information & data as well as for providing cooperation with all the departments & extend his best help in our work. We have tried ourlevel best for the work of Energy Audit up to their satisfaction.

The major activities carried out during the audit are as follow:

- Collection of College's records regarding Electricity Power Bills, Power Distribution Diagram,

Specifications of major power handling equipment – such as Fans, lighting and pumps.

- Analysis of above calculations, isolating the areas vulnerable to energy consumption not related to production.
- Recommendation of various methods of rectification.
- Making case study of projected saving by following our recommendations; and estimating potential investment & payback period.

 **Steps in Energy Auditing** The energy audit may range from a simple walk – through survey at one extreme to one that may span several phases: -

- 1) The first step is to identify the areas where energy is wasted and reduced energy without affecting the outputs of various functions.
- 2) The second step is to implement energy efficient appliances in place of normal appliances which reduce energy use by proper operations and maintenance. For this reason, it is necessary to reduce the number of operating machines and operating hours according to the demands of the load, and fully optimize equipment operations.

Energy audit depends on following factors: -

- Building equipment operation
- Lighting systems.
- Power systems.
- Building envelope
- Air-conditioning and ventilation equipment systems.
- Miscellaneous services.

The first two steps can be implemented without changing buildings and existing appliances.

- 3) The third step would require investment for remodeling, rebuilding, or introducing further control upgrades to the building.
- 4) The fourth step is to carry out large-scale energy reducing measures when existing facilities have

past their useful life, or require extensive repairs or replacement because of obsolescence. In this case higher energy savings may be achieved. For these last two stages, the audit may be more extensive in order to identify more ECOs for evaluation, but at an increased need for heavier capital expenditure to realize these opportunities.

5.0 OVERVIEW OF INSTITUTE

Adrash Shikshan Prasarak Mandal Osmanabad has blazed a trail and set an unparalleled example in south.

Today ASPM runs 21 educational institutes with an assets base of Rs.50 crore and manpower in excess of 5600 employees. ASPM's K. T. Patil College of Pharmacy, Osmanabad was established in 1999 with its view & object to provide elaborate liberal facility for education & training in diverse disciplines of knowledge in pharmacy.

The college of pharmacy was established in the pleasant and peaceful environs of Osmanabad. Situated on a lush, verdant 05 acre campus, the college began by offering a B. Pharmacy course started in 1999, M. Pharmacy course (Pharmaceutics and Quality Assurance Techniques) in 2010 & Pharm D course (Doctor of Pharmacy) in 2017.

College is approved by AICTE & PCI, New Delhi and Government of Maharashtra. Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. The college has been accredited by NAAC with 'B' Grade up to 2023.

College provides instructions to the students for four year degree course B. Pharmacy and 2 year M. Pharmacy course & 6 year Pharm D. course. The college, right from its inception has shown academic excellence and students have won meritorious awards and have maintained top ranks in the University examinations as well as in extra-curricular activities. Total Student strength of college is 612. College has total 36 teaching staff and 35 non-teaching staff. College has highly qualified staff.

The infrastructure of a college plays a vital role in the development of the college as the students are now focusing on the labs, class rooms, etc. while selecting a college. It is important that the college has very good infrastructure with ICT Based Classrooms, Specious Labs, I.Q.A.C Department, NSS, Separate Canteen, Playground and Store Rooms etc. Various indoor and outdoor games are conducted by college.

The college has also adopted the 'Green Campus' system for environmental conservation and sustainability. The goal is to reduce CO₂ emission, water use while creating an atmosphere where students can learn and be healthy.



6.0 SCOPE OF WORK AND APPROACH

SCOPE:

Scope of work and methodology were as per the proposal. While undertaking data collection, field trials and their analysis, due care was always taken to avoid abnormal situations so as to generate normal/representative pattern of energy consumption at the facility.

Approach to Energy Audit:

We focused our attention on energy management and optimization of energy efficiency of the systems, sub systems and equipment. The key to such performance evaluation lies in the sound knowledge of performance of equipment and system as a whole. The objective of Energy Audit is to balance the total energy inputs with its use and to identify the energy conservation opportunities in the stream.

Energy Audit also gives focused attention to energy cost and cost involved in achieving higher performance with technical and financial analysis. The best alternative is selected on financial analysis basis.

7.0 ENERGY AUDIT METHODOLOGY

Energy Audit Study is divided into following three steps

A] Historical Data Analysis

The historical data analysis involves establishment of energy consumption pattern to establish base line data on energy consumption and its variation with change in production volumes.

B] Actual Measurement and Data Analysis

This step involves actual site measurement and field trials using various portable measurement instruments. It also involves input to output analysis to establish actual operating equipment efficiency and finding out losses in the system.

C] Identification and evaluation of Energy Conservation Opportunities

This step involves evaluation of energy conservation opportunities identified during the energy audit. It gives potential of energy saving and investment required to implement the proposed modifications with payback period. All recommendations for reducing losses in the system are backed with its cost benefit analysis.



Preliminary Survey

In this Preliminary survey, the auditor may need to know the building envelope and its energy consumption. The data of a building can be obtained from: -

- Building Architectural blueprints.
- Building Air-conditioning blueprints.
- Building Electrical lighting and power drawings.
- Electrical bills and operation logs for the year preceding the audit.
- Air-conditioning manuals and system data.
- ECOs for evaluation, but at an increased need for heavier capital expenditure to realize these opportunities.

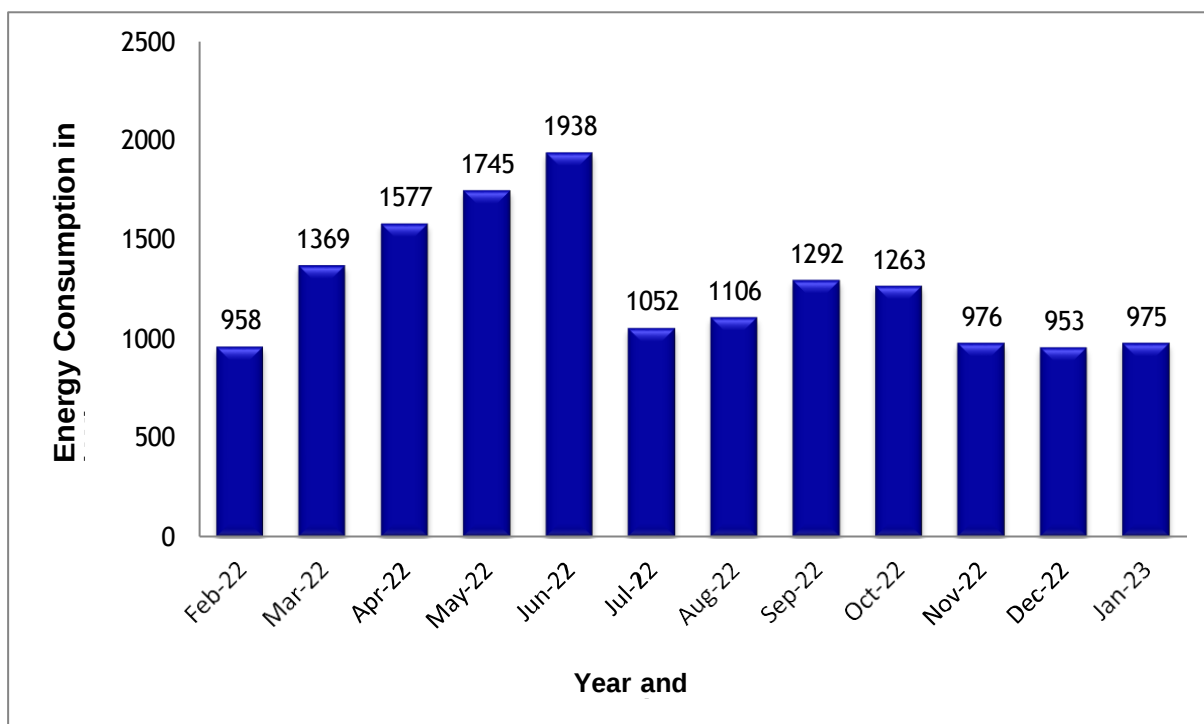
A] HISTORICAL DATA ANALYSIS

Record of monthly energy consumption of individual meter in Kwh (units) and respective Energy bill in Rupees is given below

Month	Energy Consumption in units	Bill in Rs
February-2022	958	7349.44
March-2022	1369	10555.07
April-2022	1577	11849.67
May-2022	1745	13064.58
June-2022	1938	16146.35
July-2022	1052	8968.32
August-2022	1106	9405.81
September-2022	1292	10912.17
October-2022	1263	10677.77
November-2022	976	8352.60
December -2022	953	8166.26
January-2023	975	8340.00
Avg.	1267	Total=123788

A] Monthly Energy Consumption in units or kWh

Month	Energy Consumption in units
February-2022	958
March-2022	1369
April-2022	1577
May-2022	1745
June-2022	1938
July-2022	1052
August-2022	1106
September-2022	1292
October-2022	1263
November-2022	976
December -2022	953
January-2023	975
Avg.	1267



SOURCE OF ENERGY

K.T. Patil College of Pharmacy, Osmanabad uses Energy in following forms:

A] Electricity from MSEDCL

K.T. Patil College of Pharmacy, Osmanabad receives Electricity from MSEBE

B] High Speed Diesel (HSD)

HSD is used as a fuel for Diesel Generator which is run whenever power supply from MSEDCL is not available.

The following are the major consumers of electricity in the facility

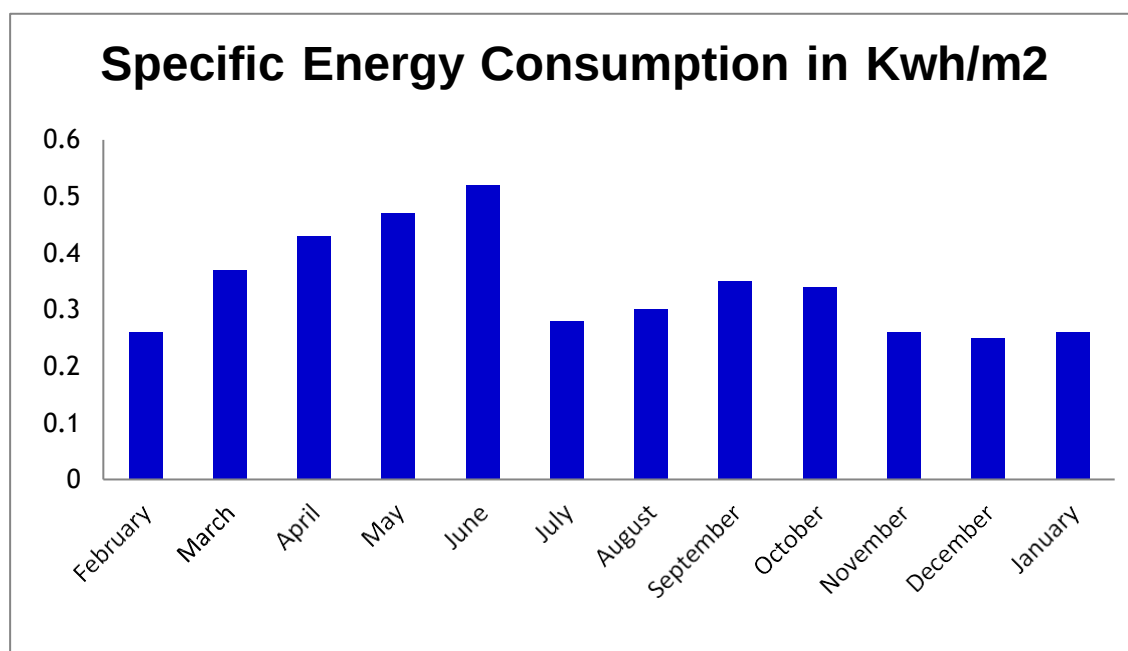
- Computers
- Lighting
- Air-Conditioning
- Fans
- Other Lab Equipment

SPECIFIC ENERGY CONSUMPTION (SEC)

Specific Energy Consumption (SEC) is defined as energy usage per Square meter of area. it is calculated total electrical kWh/total area of the campus. By calculating SEC, we can crudely target the factors of energy efficiency or inefficiency. SEC for last twelve months was calculated and is as shown in the chart below:

Total College campus Area	5 acre
Build up Area	39888.68 Sq.ft or 3705.78 Sq.m
Specific Energy Consumption	Units/Sq.m

Month	Specific Energy Consumption in Kwh/m ²	Energy Consumption in units
February	0.26	958
March	0.37	1369
April	0.43	1577
May	0.47	1745
June	0.52	1938
July	0.28	1052
August	0.30	1106
September	0.35	1292
October	0.34	1263
November	0.26	976
December	0.25	953
January	0.26	975



B] STUDY OF ACTUAL MEASUREMENT AND ITS ANALYSIS

D) ACTUAL MEASUREMENT OF EXISTING EQUIPMENTS:

All required data is collected by Energy Audit Team. In this data, different classifications are done and made survey of the college. In this survey, in every room, how much fans, tubes, fans, computer, instrument AC, etc. will these is measured. According to survey following data is collected

A] All Electricity consuming equipment and respective energy consumption in kW

Name of Department	Equipment	Quantity	Actual load in Watt	Total consumption in Watt
Office	Fan	03	75	225
	LED Tube light	04	15	60
	computers	05	200	1000
	printer	02	250	500
Strong Room	Fan	01	75	75
	Tube light	03	15	45
Pharmaceutical Chemistry Lab 01	Fan	03	75	225
	Tube light	04	20	80
	LED Tubes	04	15	60
Examination Cell	Fan	01	75	75
	Tube light	01	20	20
	LED Tubes	01	15	15
	computers	01	200	200
	printer	01	250	250
Lecture Hall 01	Table Fan	05	55	220
	Tube light	02	20	40
	LED Bulbs	12	9	108
	LED Tubes	02	15	30
	computers	01	250	250
	Projector	01	227	227
Lecture Hall 02	Fan	04	75	300
	Tube light	04	20	80
HAP Lab 02	Fan	06	75	450
	Tube light	07	20	140
Biochemistry Lab 03	Fan	03	75	225
	Tube light	09	20	180

	Refrigerator (3 Star)	01	300	300
	Oven	01	2000	2000
	Bulb	03	15	45
Boys Common Room	Fan	02	75	150
	Bulb	02	20	40
Pharmaceutics Lab 06	Fans	04	75	300
	Oven	01	1000	1000
	Tubes	03	15	45
Staff Room	Table Fan	06	55	330
	LED Bulb	18	9	162
	Computer	05	250	1250
	Printer	01	250	250
Pantry Cell	Fan	01	55	55
	Bulb	01	15	15
Lecture Hall 03	Fan	04	55	220
	Bulb	04	15	60
	Computer	01	250	250
	Projector	01	227	227
Pharmaceutical Chemistry Lab 05	Fan	04	20	80
	Tubes	05	20	100
Physical Pharmacy Lab 04	Fan	03	75	225
	Tubes	05	20	100
Principal Cabin	Fan	03	75	225
	Tubes	01	20	20
	LED Bulb	21	9	189
	Computer	02	500	500
	Printer	01	250	250
	Sound System Sound 04	01	60	224
	Table Fan	01	55	55
	Tubes	01	20	20
	AC	01	1000	1000
	CCTV Camera LED TV	01	10	10
Store	Fan	01	75	75
	Tubes	05	20	100
	Computer	01	250	250
	Ext Fan	01	80	80
Library	Fan	04	75	300

	Tubes	05	20	100
	LED Bulb	05	9	45
	Computers	05	250	1250
	Zambo Xerox Machine	01	400	400
Study Room	Fan	04	75	300
	Tubes	04	20	80
Seminar Hall	Table Fan	07	55	385
	LED Bulb	38	9	342
	AC	02	1000	2000
	Sound System 01	03 Sound	120	360
	Computer	01	250	250
	Projector	01	227	227
Pharmaceutics HOD Cabin	Fans	02	75	150
	Tubes	01	20	20
	LED tube	01	15	15
	Computer	01	250	250
	Printer	01	250	250
Pharmaceutical Analysis Lab 07	Fans	05	75	375
	Tubes	04	20	80
	Ext Fan	01	80	80
Pharmaceutical Analysis Lab 08	Fans	07	75	525
	Tubes	04	20	80
Computer Lab 09	Fans	08	75	600
	Tubes	04	20	80
	LED tube	01	15	15
	Computers	27	250	6750
	Printer	01	250	250
	Scanner	01	100	100
Ladies Room	Fans	03	75	225
	LED Tubes	02	15	30
Pharmacognosy Lab 10	Fans	09	75	675
	Tubes	02	20	40
	LED Tubes	11	15	165
	Ext Fan	01	80	80
	Oven	01	500	500
Pharmacology HOD Cabin	Fan	02	75	150
	Tubes	1	20	20
	Computer	01	250	250
	Printer	01	250	250

Staff Room	Fans	06	75	450
	Tubes	04	20	80
	Computer	02	250	500
	Printer 01	01	250	250
Pharmacognosy HOD Cabin	Fans	02	75	150
	Table Fan	01	55	55
	LED Tubes	01	15	15
	Computers	02	250	500
	Printer	01	250	250
Class Room 07	Fans	04	75	300
	Tubes	03	20	60
	LED Tubes	01	15	15
Class Room 06	Fans	07	75	525
	Tubes	01	20	20
	LED Tubes	04	15	60
Class Room 05	Fans	05	75	375
	Tubes	03	20	60
	LED Bulb	01	15	15
Class Room 04	Fans	06	75	450
	Tubes	02	20	40
	LED Bulb	04	9	36
OUT DOOR	Tubes	04	20	80
	LED Bulb	03	15	45
	Sound	05	60	300
TERIS	LED Focus	05	500	2500
STREET LIGHT		10	15	150
FOCUS		04	1000	4000
Total	44607			

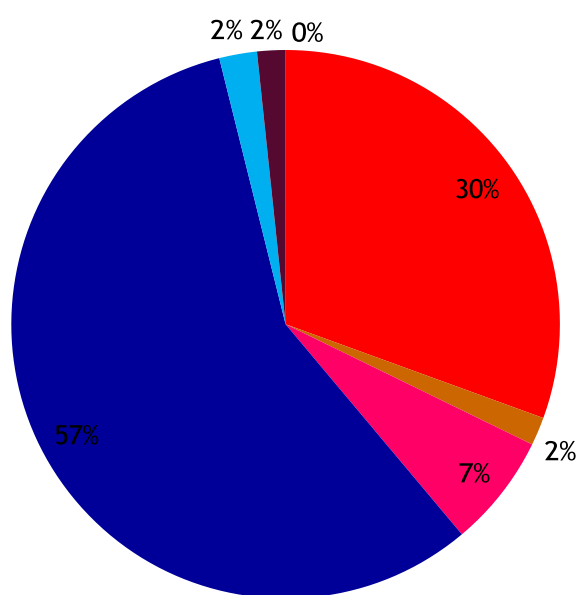
B| Major electricity consuming equipment and respective total load

Equipments	Quantity	Actual loadin Watt	Total Load in Watt
Fan	118, 18	75, 55	9840
Computers	55	200	11000
Air conditioners	3	1000	3000
Printers	12	250	3000

Tubes	103	20	2060
Refrigerator	4	300	1200
Oven	3	500	1500
Total	31600		

Total Electrical Load Distribution in

■ Fan ■ Computers ■ Air conditioners ■ Printers ■ Tubes ■ Refrigerator ■ Oven

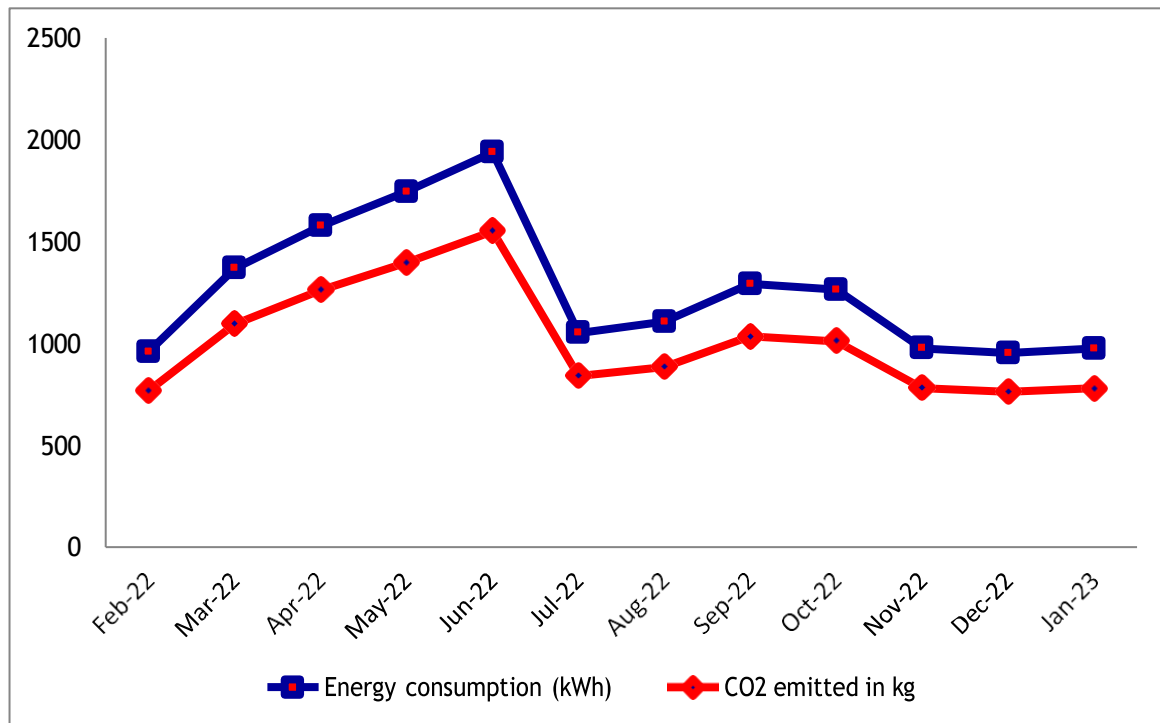


CARBON- DIOXIDE EMISSION

For consumption of 1 Unit (1 kWh) of Electricity, the CO₂ emitted is 0.8 Kg. OR the Emission is 0.8 Kg/kWh. In the following Table we present the total units consumed and CO₂ emitted as under:

Sr.No.	Month	Energy consumption (kWh)	CO ₂ emitted in kg
1	February-2022	958	766.4
2	March-2022	1369	1095.2
3	April-2022	1577	1261.6
4	May-2022	1745	1396
5	June-2022	1938	1550.4
6	July-2022	1052	841.6
7	August-2022	1106	884.8

8	September-2022	1292	1033.6
9	October-2022	1263	1010.4
10	November-2022	976	780.8
11	December -2022	953	762.4
12	January-2023	975	780
13.	Avg.	1267	1013.6



C] IDENTIFICATION AND EVALUATION OF DATA

The electrical devices which are connected in college campus are not energy saving devices. These devices can be changed by electrical efficient appliances. The appliances are of high watt equipment so the electrical consumption is high in college campus. Now a day's low wattage appliances are used in building. They are helpful in saving electricity.

ENERGY SAVING CALCULATION



Providing Solar PV system for part load operations during day time

There are mainly Lighting and Computer loads. Since, there is no separate lighting feeder; it becomes necessary to separate out the lighting feeder for those lights where they are used 6 to 8 hours in a day.

A 7 kW Solar PV is proposed for the Lighting load application with minimum Storage

batteries.

The power saved considering the 85% loading = 7 kW

Average Daily available hours = 6 h/day

Electricity Saved = $6 \times 7 = 42$ kWh/day

Yearly availability = 300 days/year

Yearly savings in electricity = $300 \times 42 = 12600$ kWh/year

Monetary Savings = $12600 \times 8 = \text{Rs. } 100800$ / year

Approximate cost of the solar system = Rs. 7 lac

Payback Period: $700000/100800 = 6.9$ Yrs.

Average life of project: 25 Yrs.

Net Saving: $20 \text{ yrs} \times 100800/\text{yrs.} = 20,16,000/-$

\

8 RECOMMENDATIONS

General Recommendations

- ✚ All Class Rooms and labs to have Display Messages regarding optimum use of electrical appliances in the room like lights, fans, computers and projectors.
- ✚ All projectors to be kept OFF or in idle mode if there will be no presentation slides. All computers to have power saving settings to turn off monitors and hard discs, say after 10 minutes/30 minutes.
- ✚ The comfort air conditioning temperature to be set between 24°C to 26°C.
- ✚ Lights in toilet area may be kept OFF during day time

Commercial Recommendations

- ✚ Installation of solar PV panel system of capacity 7 kWh is highly recommended. The total saving through-out the project life is **Rs. 20,16,000/-**
- ✚ Replacement of CRT monitors with LED monitors. It's highly recommended as it will avoid digital eye strain on users.
- ✚ Replacement of Conventional tube lights with LED.

9 CONCLUSION

Natural resources on earth are limited and consuming very sharply. It can be saved by employing energy efficiency and it is very necessary to prevent depletion of natural resources. The Electrical audit of college buildings shows that the load of electrical equipment's is significant and should be taken some necessary step for reducing energy conservation. Today energy conservation plays a very important role for energy conserving because energy consumption is increasing day by day but the natural resources are not increasing and also generation is not match with consumption People should aware about energy conservation and reduce energy consumption by adopting modern technologies.

**A certificate from an external accredited
auditing agency**



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ISO 9001:2015 Certified Organization

Energy Audit Certificate

This is to certify that the Sahyagiri Enterprises has conducted detailed energy audit report of **K. T. Patil College of Pharmacy, Osmanabad** during academic year 2021-2022 to energy conservation activities.

The college has submitted necessary data and credentials for scrutiny. The efforts taken by the management, faculty and students towards energy conservation are highly appreciated.


M. M. Jadhav

SAHYAGIRI ENTERPRISES PRIVATE LIMITED


DIRECTOR

V. M. Jadhav



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No. SE/EAC/08/2023

Date: 29/11/2023

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EMS Lead Auditor
M. M. Jadhav

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Green Audit Certificate

This is to certify that the Sahyagiri Enterprises has conducted detailed green audit report of **K.T. Patil College of Pharmacy, Osmanabad** during academic year 2021-2022 to assess the green initiative planning, efforts, activities implemented in college campus like plantation, waste management, rain water harvesting, energy conservation, biodiversity conservation and various environmental activities. This green audit is also aimed to assess impact of green initiative for maintenance of the campus.

The college has submitted necessary data and credentials for scrutiny. The efforts taken by the management, faculty and students towards environment and sustainability are highly appreciated.

Green Audit In charge

M. M. Jadhav

SAHYAGIRI ENTERPRISES PRIVATE LIMITED

DIRECTOR

V. M. Jadhav



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No. SE/GAC/20/2023

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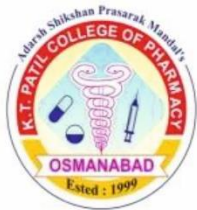
M. M. Jadhav

SAHYAGIRI ENTERPRISES PRIVATE LIMITED

DIRECTOR

V. M. Jadhav

**Geo-tagged photos with captions and dates,
and any other supporting documents related
to environmental initiatives beyond the
campus.**



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PH (O):9421117822

Date: 30/07/2024

To,
The Director,
National Assessment and Accreditation Council (NAAC)

Subject: Acknowledgement of DVV Query Regarding geo-tagged Image

Dear Sir/Madam,

We acknowledge the receipt of the DVV (Data Verification and Validation) query dated 16/07/2024 related to the SSR (Self Study Report) submitted by ASPM's K. T. Patil College of Pharmacy, Osmanabad for the reaccreditation process.

We would like to confirm that we have received the query and are in the process of collecting and verifying the required data/information as requested. We assure you that the necessary details will be provided within the stipulated timeline.

Below is a brief overview of our response:

7.1.3 Query 5: geo-tagged photos with captions and dates, and any other supporting documents related to environmental initiatives beyond the campus

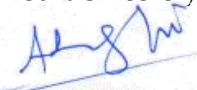
Action Plan: We have been organizing environmental initiatives beyond the campus. In some activities, we have included photos with geo-tagged, while in other activities we not aware about the guidelines. Therefore, we kindly request that this be taken into consideration. Below are the details of the activity.

Sr.No	Name of beyond the campus activity	DATE	geo-tagged photos status Yes/No	Links
1	NSS Special Camp at Bhanasagaon	06/03/2023-11/03/2023	Yes	View Document
2	NSS Special Camp at Bhanasagaon	03/02/2020-08/02/2020	No	View Document
3	Beautification and cultural enhancement of Hatladevi Temple surroundings by NSS volunteers	09/01/2020-12/01/2020	No	View Document

We value the importance of this process and are dedicated to providing accurate and complete information to assist the DVV process. Please feel free to contact us if you need further clarification.

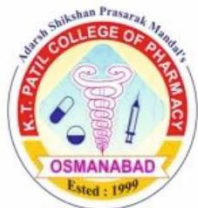
Thank you for your cooperation and understanding.

Yours sincerely,


PRINCIPAL
K.T.Patil College of Pharmacy
Osmanabad-413501




IQAC Co-ordinator
ASPM'S K.T. Patil College of Pharmacy,
Osmanabad-413501
IQAC Co-Ordinator



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Date: 04.03.2023



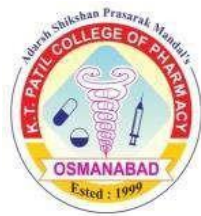
Notice

All the second-year B. Pharm students are hereby informed that the college going to organize an NSS Special Camp at Bhanasagaon from 06.03.2023 to 11.03.2023 all the students will be present for all days of the special Camp.

PRINCIPAL

K.T. Patil College of Pharmacy,
Osmanabad-413501

Principal



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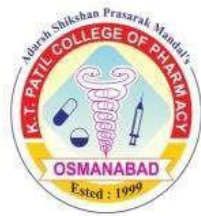
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NSS SPECIAL CAMP AT BHANASAGAON (2022-23)

Program Title	:	NSS Special Camp Day 1 - Day 6
Organized by	:	ASPM's K. T. Patil College of Pharmacy, Osmanabad
Day and Date	:	Monday - Saturday 06/03/2023 to 11/03/2023
Time	:	48 Hours
Name of Speaker	:	Day-1 :- Dr. Balaji Maind (NSS District Co-ordinator Osmanabad). Day-2 :- Dr.Saurabh Fadkule (Physiotherapist) Day-3 :- Dr.Neeta Chougule-Poul (MBBS,DGO) Day-4 :- Mrs.Snehal Veer (Yoga Trainer) Day-5 :- Mr.Rajendra Jadhav (Supervisor-Shripatrao Bhosale Highschool Osmanabad) Day-6 :- Mr.Ranjit Patil (Motivational Speaker)
Venue	:	At.Bhanasgaon.
Program Coordinator	:	Mr.AtulkumarAlkunte Mr.Shivaratna Khare Ms.Pallavi Hangargekar
No. of Participant	:	50



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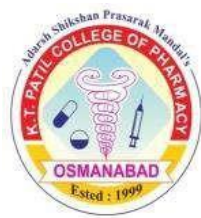
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Objectives:

1. Making education more relevant to the present situation to meet the felt needs of the communities.
2. To supplement the education of students by bringing them face to face with the community situation.
3. Identify the needs and problems of the community and involve students in problem-solving.
4. To develop among the students a sense of social and civic responsibility.
5. Encouraging the students and non-student youth to work along with the adults in rural areas, thereby developing their character, social consciousness and commitment, discipline, and healthy and helpful attitudes towards the community.

Activities Performed in NSS Special Camp 2022-23:

Sr.No.	Day	Date	Name of Guest	Activities Performed
1	Monday	06/03/2023	Dr. Balaji Maind	First Session:-Inauguration of NSS Special camp Second Session: - Dr.Balaji Maind gave information about the National Service Scheme.
2	Tuesday	07/03/2023	Dr. Saurabh Fadkule	First Session:-Cleaning of Zilla Parishad Primary School Playground. Second Session:-Mr.Atulkumar Alkunte told the importance of cleaning.
3	Wednesday	08/03/2023	Dr. Neeta Chougule-Poul	First Session:-Cleaning of the gram panchayat area and some areas of the village. Second Session:-Dr. Neeta Chougule-Poul delivered a speech on health and hygiene.
4	Thursday	09/03/2023	Mrs. Snehal Veer	First Session: - NSS students performed a street play on child marriage. Second Session:-Mrs. Snehal Veer delivered a speech on Yoga and Dhyan.
				First Session:-Cleaning at Yashwantrao Chavan high school playground, as well as tree plantation, was done on the high school



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5	Friday	10/03/2023	Mr.Rajendra Jadhav	premises. Second Session:-Mr.Rajendra Jadhav delivered a speech on what is a success. How to become successful.
6	Saturday	11/03/2023	Mr.Ranjit Patil	First Session:-Erosion pits at different places in the village. Second Session:-Mr.Ranjit Patil delivered a speech on Three types of personality.

NSS SPECIAL CAMP DAY 1 (06.03.2023, Monday)

About the program

Dr. A. A. Joshi, Principal of ASPM's K. T. Patil College of Pharmacy, addressed the objectives of the NSS Special camp. Dr. Joshi delivered a speech explaining the concept of NSS and its significance.

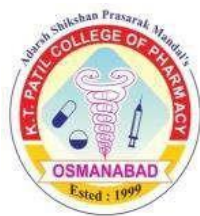
The program consisted of three different sessions, outlined as follows:

1. Welcome Address:

Dr. A. A. Joshi paid floral tributes to Sant Gadge Maharaj during the welcome address. He expressed his privilege in celebrating the NSS special camp at Bhanasgaon. He assured the people of Bhanasgaon that the students would actively assist in village cleaning and other activities.

2. Speech by Dignitaries:

During the second session of the first day of the NSS camp, Dr. Balaji Maind delivered a speech on the development of rural and urban areas. He discussed the history of the National Service Scheme and emphasized the importance of cleanliness. Dr. Maind also shared insights about the NSS logo and its origin.



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3. Vote of Thanks:

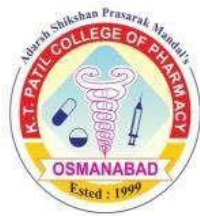
Following the dignitaries' speeches, Mr. Atulkumar Alkunte, the NSS Coordinator, extended a vote of thanks. He expressed gratitude to all the villagers, faculty members, and students for their active participation in the program.



Pratima Pujan of Sant Gadage Maharaj



Principal Dr.Amol Joshi sir felicitating NSS District Co-ordinator Dr.Balaji Maind Sir



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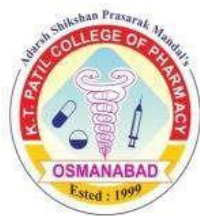
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Principal Dr. Amol Joshi sir delivering the welcome speech



Dr.Balaji Maind Sir guiding the students about NSS Camp.



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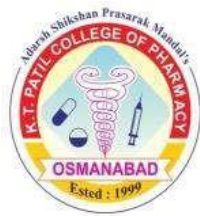
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Member of Bhanasgaon Panchayat giving information about Bhanasgaon



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NSS SPECIAL CAMP DAY 2 (07.03.2023, Tuesday)

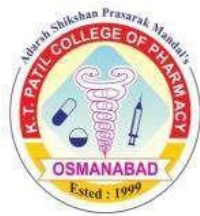
About the Program:

During the first session of the second day, the NSS students engaged in cleaning the playground of Zilla Parishad Primary School in Bhanasgaon. They prepared brooms for the cleaning activity, ensuring that the playground was made suitable for primary school students. The students removed large stones from the ground, creating a safer environment.

In addition, the team removed shrubs and dry plants, replacing them with new plants planted at the corners of the playground. Mr. Atulkumar Alkunte, the NSS Coordinator, took the opportunity to explain the importance of cleanliness to the primary school students.



NSS Students Preparing Broom for Cleaning of Playground



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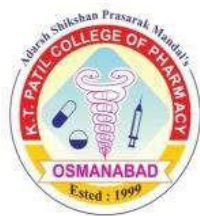
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NSS Students Leveling the Playground of Zilla Parishad Primary School Bhanasgaon



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NSS Students removing the stones from the Playground



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NSS SPECIAL CAMP DAY 3 (08.03.2023, Wednesday)

About the Program

On the third day, the camp activities began with a cleaning session in Bhanasgaon. The Grampanchayat and its surrounding areas, extending from the Police officer's house to Dalit vasti, as well as from the Water tank area to the house of the panchayat head, were cleaned by the NSS students. They also cleaned Dudhe colony, Kadam vasti, Dargah road, and the area around the bus stand.

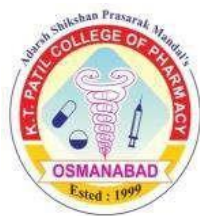
In the second session, a guest lecture was arranged. Dr. Neeta Chuogule-Poul (MBBS, DGO) delivered a speech on health and hygiene.



NSS students prepare the brooms for cleaning.



NSS students cleaning the Dalit Wasti



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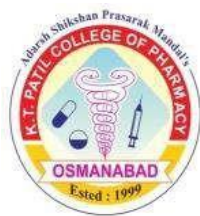
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NSS students cleaning the Grampanchayat area



NSS Students cleaning the area of dudhe colony



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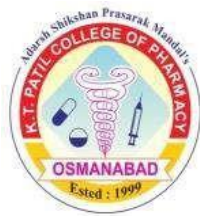
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Dr. Neeta Chougule-Poul Madam addressing the students



Dr. Tole Madam felicitating Dr. Neeta Chougule-Poul Madam



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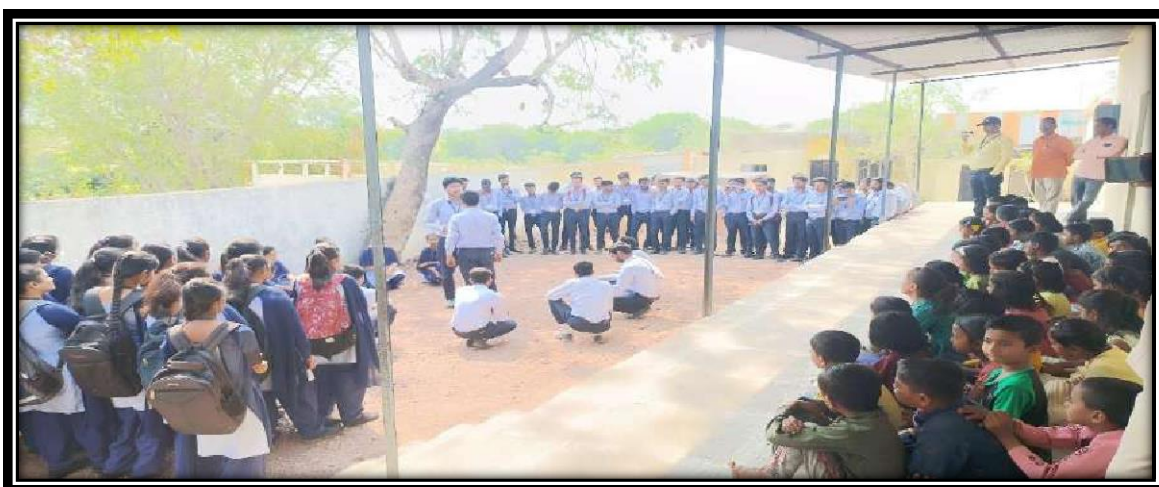
NSS SPECIAL CAMP DAY 4 (09.03.2023, Thursday)

During the first session of the fourth day, NSS students performed a street play on child marriage to raise awareness among the public about the rules, regulations, and consequences related to child marriage. The street play took place at Zilla Parishad Primary School ground, Hanuman Mandir Chowk, and Gram Panchayat Chowk.

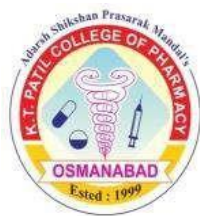
In the second session, a guest lecture was organized. Mrs. Snehal Veer delivered a speech on Yoga and Dhyam (Meditation).



Students Performing Child Marriage Play at Zilla Parishad Primary School ground



Students Performing Child marriage play near Hanuman Temple Chowk



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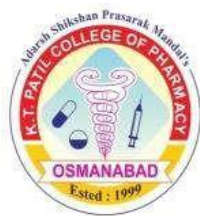
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Dr.Arunadevi Birajdar Madam felicitating Mrs.Snehal Veer Madam



Mrs.Shobha Tole Madam felicitating Ms.Pranali Jagdale Madam



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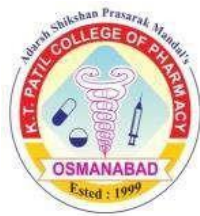
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Mrs. Snehal Veer giving instructions for Dhyan



Mrs. Snehal Veer giving instructions for Yoga



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NSS SPECIAL CAMP DAY 5 (10.03.2023, Friday)

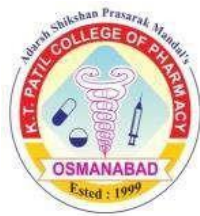
About the Program

During the first session of the fifth day, NSS students engaged in cleaning activities at Yashwantrao Chavan High School playground. Additionally, a tree plantation drive was carried out within the school premises. Around 30 different trees were successfully planted.

In the second session, a guest lecture was organized. Mr. Rajendra Jadhav delivered a speech on the topic of success, discussing what it entails and how to achieve it.



Students cleaning the ground of Yashwantrao Chavan Highschool



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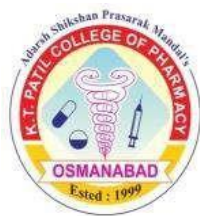
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Tree plantation on the ground of Yashwantrao Chavan Highschool Bhanasgaon



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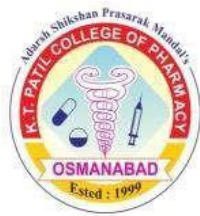
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Mr. Sudhir Pange felicitating Mr. Rajendra Jadhav Sir



Mr. Rajendra Jadhav delivering speech on topic "How to become successful"



Adarsh Shikshan Prasarak Mandal's

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NSS SPECIAL CAMP DAY 6 (11.03.2023, Saturday)

About the Program

During the first session of the sixth day, NSS students created erosion pits in various locations within the village. Erosion pits play a crucial role in water conservation and management. They help to prevent water erosion and contribute to water conservation efforts.

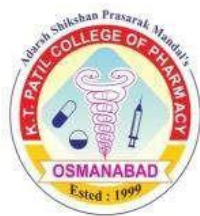
In the second session, a guest lecture was organized. Mr. Ranjit Patil delivered a speech on the topic of three types of personalities.



Students taking the erosion pit at Dudhe colony



Mr. Atulkumar Alkunte felicitating Mr. Ranjit Patil Sir



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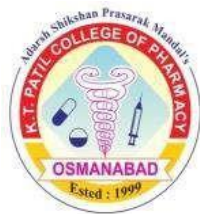
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Mr. Ranjit Patil Sir delivering speech on topic "Three types of personality"



Mr. Ramraja Umbare felicitating NSS Coordinator Mr. Atulkumar Alkunte



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Dr. Amol Joshi sir felicitating NSS vice Coordinator Mr. Shivaratna Khare



Dr. Amol Joshi Sir felicitating Ms. Pallavi Hangargekar

Asal Bete
Program Officer
National Service Scheme
K.T. Patil College of Pharmacy
Osmanabad

Program Coordinator



Asal Bete
PRINCIPAL
K.T. Patil College of Pharmacy,
Osmanabad-413501

Principal

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NSS SPECIAL CAMP AT BHANASAGAON (2019-20)

Program Title	:	NSS Special Camp Day 1 - Day 6
Organized by	:	ASPM's K. T. Patil College of Pharmacy, Dharashiv
Day and Date	:	Monday - Saturday 03/02/2020 to 08/02/2020
Time	:	48 Hours
Name of Speaker	:	Day-1 :- Dr.Makrand Chaudhary (NSS District Co-ordinator Dharashiv). Day-2 :- Dr.Saurabh Fadkule (Physiotherapist) Day-3 :- Mrs.Chayatai Pawar & Mrs.Sharada Chavan (Yoga Trainer) Day-4 :- Mr.Rajendra Jadhav (Supervisor-Shripatrao Bhosale Highschool Dharashiv) Day-5 :- Mr.Ranjit Patil (CEO of Feel NLP) Day-6 :-Dr. Pankaj Shingare (Doctor of Civil Hospital)
Venue	:	At.Bhanasgaon.
Program Coordinator	:	Mr. Atulkumar Alkunte Mrs. Rubiya Quazi
No. of Participant	:	50

Objectives:

1. Making education more relevant to the present situation to meet the felt needs of the communities.
2. To supplement the education of students by bringing them face to face with the community situation.
3. Identify the needs and problems of the community and involve students in problem-solving.
4. To develop among the students a sense of social and civic responsibility.

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5. Encouraging the students and non-student youth to work along with the adults in rural areas, thereby developing their character, social consciousness and commitment, discipline, and healthy and helpful attitudes towards the community.

Activities Performed in NSS Special Camp 2019-20 :

Sr.No.	Day	Date	Name of Guest	Activities Performed
1	Monday	03/02/2020	Dr.Makrand Chaudhary	First Session:-Inauguration of NSS Special camp Second Session:- Dr.Makrand Chaudhary delivered a speech on Clean India.
2	Tuesday	04/02/2020	Dr.Saurabh Fadkule	First Session:Cleaning of the gram panchayat area and some areas of the village. Second Session:- Dr.Saurabh Fadkule Delivered a speech on physiotherapy and its benefits.
3	Wednesday	05/02/2020	Mrs. Chayatai Pawar & Mrs. Sharada Chavan	First Session:-Erosion pits at different places in the village and management of waste water Second Session:- Mrs. Chayatai Pawar & Mrs. Sharada Chavan delivered a speech on Yoga and Dhyan.
4	Thursday	06/02/2020	Mr.Rajendra Jadhav	First Session:- Cleaning of Zhilla Parishad Primary School Play ground and tree plantation. Second Session:-Mr.Rajendra Jadhav delivered a speech on how to live life.
5	Friday	07/02/2020	Mr.Ranjit Patil	First Session:-Cleaning of Yashwantrao Chavan High School playground, and tree plantation. Second Session:- Mr.Ranjit Patil deliver a speech on Stress Management.
6	Saturday	08/02/2020	Dr. Pankaj Shingare	First Session:- Free Health Checkup Camp at Bhanasgaon. Second Session:- Dr. Pankaj Shingare delivered a speech on Cleanliness and Health.

NSS SPECIAL CAMP DAY 1 (03.02.2020, Monday)

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About the program

Dr. A. A. Joshi, Principal of ASPM's K. T. Patil College of Pharmacy, addressed the objectives of the NSS Special camp. Dr. A. A. Joshi delivered a speech explaining the concept of NSS and its significance.

The program consist of three different sessions, outlined as follows:

1. Welcome Address:

Dr. A. A. Joshi paid floral tributes to Sant Gadge Maharaj during the welcome address. He expressed his privilege in celebrating the NSS special camp at Bhanasgaon. He assured the people of Bhanasgaon that the students would actively assist in village cleaning and other activities.

2. Speech by Dignitaries:

During the second session of the first day of the NSS camp, Dr. Makrand Chaudhary delivered a speech on Clean India.. He discussed the history of the National Service Scheme and emphasized the importance of cleanliness. Dr. Makrand Chaudhary also shared insights about the NSS logo and its origin.

3. Vote of Thanks:

Following the dignitaries' speeches, Mr. Atulkumar Alkunte, the NSS Coordinator, extended a vote of thanks. He expressed gratitude to all the villagers, faculty members, and students for their active participation in the program..

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Idol Worship of Sant Gadage Maharaj



Felicitation of Mr. Pandit Kale (Member of Gram Panchayat) by Dr. Amol Joshi

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NSS SPECIAL CAMP DAY 2 (04.02.2020, Tuesday)

About the Program:

During the first session of the second day, the camp activities began with a cleaning session in Bhanasgaon. The Grampanchayat and its surrounding areas, extending from the Police officer's house to Dalit vasti, as well as from the Water tank area to the house of the panchayat head, were cleaned by the NSS students. They also cleaned Dudhe colony, Kadam vasti, Dargah road, and the area around the bus stand.

In the second session of the second day, Dr. Saurabh Fadkule delivered a speech on physiotherapy and its benefits to the NSS students.



NSS Students Cleaning Dudhe Galli

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**NSS Students Cleaning the Bus Stand
Area**

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NSS SPECIAL CAMP DAY 3 (05.02.2020, Wednesday)

About the Program

During the first session of the third day, NSS students created erosion pits in various locations within the village. Erosion pits play a crucial role in water conservation and management. They help to prevent water erosion and contribute to water conservation efforts.

In the second session, a guest lecture was organized. Mrs. Chayatai Pawand and Mrs. Sharada Chavan delivered a speech on Yoga and Dhyan.



NSS Students doing management of waste water

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**Mrs. Chayatai Pawar and Mrs. Sharada
Chavan madam giving training of Yoga
to NSS Students**

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NSS SPECIAL CAMP DAY 4 (06.02.2020, Thursday)

In the first session of fourth day the NSS students engaged in cleaning the playground of Zilla Parishad Primary School in Bhanasgaon. They prepared brooms for the cleaning activity, ensuring that the playground was made suitable for primary school students. The students removed large stones from the ground, creating a safer environment.

In addition, the team removed shrubs and dry plants, replacing them with new plants planted at the corners of the playground. Mr. Atulkumar Alkunte, the NSS Coordinator, took the opportunity to explain the importance of cleanliness to the primary school students.



**Tree Plantation by NSS Students in the
premises of Zilla Parishad Primary
School**

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NSS SPECIAL CAMP DAY 5 (07.02.2020, Friday)

About the Program

During the first session of the fifth day, NSS students engaged in cleaning activities at Yashwantrao Chavan High School playground. Additionally, a tree plantation drive was carried out within the school premises. Around 30 different trees were successfully planted.

In the second session, Mr. Ranjit Patil delivered a speech on Stress Management.



NSS student giving brief introduction of Mr. Ranjit Patil

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**Mr. Ranjit Patil Sir delivering speech on
Stress Management**

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NSS SPECIAL CAMP DAY 6 (08.02.2020, Saturday)

About the Program

During the first session of the sixth day, free health check up camp was conducted at zilla parishad primary school of Bhanasgaon. In this camp weight, height, blood pressure, blood group, diabetes test was done. As well as distribution of medicines done.

In the second session, Dr. Pankaj Shingare delivered a speech on Cleanliness and health. He said that cleaning is a very important thing in human life; it affects the health of humans. So we have to keep our area and our body clean.

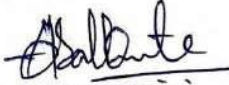


**Dr. Pankaj Shingare doing health
checkup of Bhanasgaon People.**

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**NSS Students distributing medicines after health
check up**


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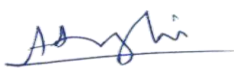
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NOTICE

All faculty members and students of B. Pharm and Pharm D students are hereby informed that from 9 January 2020- 12 January 2020, **Beautification and Cultural Enhancement of Hatladevi Temple Surroundings** will take place at Hatladevi Temple surroundings. Attendance is compulsory for all.




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K.T. Patil College of Pharmacy,
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ACADEMIC YEAR- 2019-20

BEAUTIFICATION AND CULTURAL ENHANCEMENT OF HATLADEVI TEMPLE SURROUNDINGS BY NSS VOLUNTEERS

Program Title	:	“Beautification and Cultural Enhancement of Hatladevi Temple Surroundings by NSS Volunteers”
Organized by	:	ASPM's K. T. Patil College of Pharmacy, Osmanabad-413501
Day and Date	:	Thursday - Sunday, 09.01.2020-12.01.2020
Time	:	12:00 pm to 01:00 pm
Venue	:	Hatladevi Temple
Program Coordinators	:	Mr. Alkunte A. S. Mrs. Quazi R. S. Mr. Khare S. V.

Objectives:

1. To enhance the cleanliness of the temple surroundings, promoting a hygienic and pleasant environment for devotees.
2. To foster a sense of responsibility and community service among the students, encouraging active participation in local welfare activities.

About the Program

From January 9 to January 12, 2020, the NSS unit of our college undertook a significant initiative aimed at beautifying the surroundings of the Hatladevi Temple. This four-day program saw enthusiastic participation from our NSS students, who worked diligently to clean the temple premises and create a vibrant rangoli art in front of the temple. The project

not only aimed at enhancing the aesthetic appeal of the temple but also at instilling a sense of community service and environmental stewardship among the students.

On the designated day, a group of enthusiastic NSS volunteers gathered at the Hatladevi Temple. Armed with cleaning equipment and supplies, the students commenced the beautification process. The initial phase involved thorough cleaning of the temple surroundings. Debris, litter, and unwanted vegetation were meticulously removed, resulting in a pristine environment.



Sweeping Away the Old, Making Way for the New – NSS Students in Action



Dedicated to Cleanliness: NSS Team Enhances the Temple's Beauty

Following the cleaning drive, the focus shifted to the creation of rangoli art. Utilizing vibrant colors and intricate designs, the students crafted a magnificent rangoli in front of the temple entrance. This not only enhanced the aesthetic appeal of the temple but also symbolized the rich cultural traditions associated with festivals and auspicious occasions.

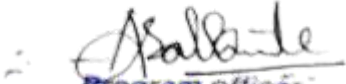


Cultural Heritage in Every Stroke: Beautiful Rangoli by NSS Volunteers

The beautification initiative received overwhelming appreciation from the local community and temple authorities. Devotees visiting the temple expressed their gratitude and admiration for the efforts of the NSS volunteers. The vibrant rangoli art became a center of attraction, drawing visitors and enhancing the spiritual ambiance of the temple.

The active involvement of students, faculty, and community members ensured the effective implementation of cleanliness and water conservation initiatives. To make the program successful, NSS Program Officer Mr. Alkunte A. S., Deputy Program Officer Mrs. Rubia Qazi, and Mr. Shivrtna Khare worked hard and all the students, teachers, and non-teaching staff attended the said program in large numbers.




Program officer
National Service Scheme
K.T. Patil College of Pharmacy
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