

BASELINE ENVIRONMENTAL ASSESSMENT (2023-24)



Late Uddhavrao Tulashiram Jadhavar Foundation's,

Prin. Dr. Sudhakar Rao Jadhavar

Arts, Commerce & Science College.

Manaji Nagar, Narhe-Dhayari, Pune-411 041.

(Affiliated to Savitribai Phule Pune University, Pune)

1. Introduction

COLLEGE INTRODUCTION:

Prin Dr. Sudhakar Rao Jadhavar Arts, Commerce & Science College, Pune established in the year 2012 in a sub-urban area i.e. Narhe - Dhayari, Pune near to Bangalore-Pune express way. Our college believe in practicing quality teaching and learning methodologies. College has spacious and well equipped computer lab with 120 LCD Computers with Net system. Our library is enriched with large numbers of quality reference books journals, magazines and E-journals etc. College has affiliated to the Savitribai Phule Pune University offering the courses i.e. B.A., B.Com. B.Sc., M.A. & M.Com.

Highlights of college facility

- * Fully furnished college building, classrooms, computer labs with 40 computers.
- * WI-Fi campus, Library, Book Bank scheme and Reading room.
- * Highly qualified and well experienced teaching staff.
- * Special guidance for UPSC, MPSC, C.A., I.C.W.A and C.S. etc.
- * Extra-curricular activities for Eg. NSS, Placement cell, Personality development course, Spoken English courses, Tally courses etc.
- * Seminars, Guest Lectures and Workshops for students.
- * Separate Hostel and Mess for Boys and girls.
- * Using IT based Advanced teaching and learning aids.
- * Diploma courses and central government soft skill courses
- * Earn and Learn Scheme, Student Welfare Council.
- * Scholarship facility as per university and government of Maharashtra norms
- * State Level Essay competition, Debate competition, cultural activity
- * Y.C.M.O.U. Centre

Campus area:

- 1 Total Campus Area- 7456 Sq. M
- 2 Built up Area- 65076.00 Sq. Feet

Geographical Description:



Pune is situated at approximately 18° 32" north latitude and 73° 51" east longitude. The city's total area is 15.642 km², and the municipal corporation area covers 518 km². By road Pune is 149 km south-east of Mumbai, 580 km south-west of Indore, 695 km (432 mi) west of Nagpur, 1,173 km (729 mi) south of Delhi, 734 km north of Bangalore, 562 km north-west of Hyderabad. Pune lies on the western margin of the Deccan plateau, at an altitude of 560 m (1,840 ft) above sea level. It is on the leeward side of the Sahyadri mountain range, which forms a barrier from the Arabian Sea. It is a hilly city, with Vetal Hill rising to 800 m (2,600 ft) above sea level. The Sinhagad fort is at an altitude of 1,300 metres (4,300 feet).

The old city of Pune is at the confluence of the Mula and Mutha rivers. The Pavana, a tributary of Mula river and Indrayani river, a tributary of the Bhima river, traverse the northwest Neighbourhoods of Pune.

1. COLLEGE VISION & MISSION:

VISION

Our statement 'education for strength intellect & wisdom', to educate all students to the highest levels of academic achievement to enable them to reach & expand their potential & to prepare them to become productive, responsible, ethical, creative & compassionate members of society.

MISSION

To educate all students to the highest levels of academic achievement, to enable them to reach and expand their potential and to prepare them to become productive, responsible, ethical, creative and compassionate members of society.

Core Values

Excellence

Ethics and Dignity

Diversity

Student Focus

Collaboration and Public Engagement

1.1 OBJECTIVE OF THE COLLEGE:

- ▶ To provide higher education and to inculcate various skills among the students residing in rural areas so that they can stand with confidence in techno-globalised world.

- ▶ To inspire students for self-employment or felicitate them for placements in private and public sectors.

- ▶ To encourage students to realize the importance of reaching personal and professional goals through self-motivation, individual growth, and the pursuit of excellence.

▶ To enrich the faculty through guest lectures, seminars, workshops, orientation courses and staff academy.

▶ To develop the feeling of oneness amongst the teaching & non-teaching staff.

▶ To inculcate social, culture and patriotic values through students in the society.

Prin. Dr. Sudhakar Rao Jadhavar Arts, Commerce & Science College, Pune demonstrates its commitment to implement sustainable solutions in different ways. It has taken a number of positive steps to reduce possible environmental impact. The management is keen on accepting new ideas of resource management.

The environmental assessment of an educational institute being carried out in different phases.

- To establish a baseline of existing environmental scenario
- To provide basis for improved sustainability
- To promote environmental awareness through the assessment process
- To create an educational document for future use

In view of making green and eco-friendly campus the organization has taken an important step to understand the environmental parameters within the campus. This report serves to highlight, the efforts towards greener campus. The first step taken in this direction is establishing a baseline of existing condition.

The different environmental criterias with their current status, action being taken by an institution and effective ways to improve the actionable points being highlighted in this report. Sensitization of all the stakeholders of an institution towards eco-friendly campus is very crucial at this juncture.

2. Environmental criteria's

2.1. 'Know green and think green' there is promoted on the campus

Governance and Leadership

The college has clear policies, principles or goals that provide direction for staff, administrators, and other members of the campus community. Clear decision-making power and reporting mechanisms with responsibilities to monitor, report, give advice about, and promote action and awareness around environmental sustainability.

Action:

The College currently has an Environmental Advisory Committee (EAC), which is composed of members each from different stake holders of the college. It is co-chaired by a student and by the head of facilities. The EAC has been very active in discussing and advising the College on campus sustainability issues.

Environmental Advisory Committee (EAC) – (2023- 2024)

SN	Name of the Committee Member	Designation
1	Prin. Dr. Sudhakar Rao Jadhavar	President, (Principal)
2	Prof. Savita A. Bidkar	Coordinator
3	Asst. Prof. Suvidha Ghadge	Member
4	Asst. Prof. Seema C. Koshti	Member
5	Asst. Prof. Mrunali Kadam	Member
6	Mrs. Sulkshana A. Panase	Non-Teaching representative
8	Mast. Chaitanya Shinde	Boys representative
9	Miss. Payal Borana	Girls representative

Since commencement, the committee has discussed such topics as campus energy use, recycling of plastic, reduce use of plastic, composting of dining hall waste, saving water and sustainable use of resources.

2.2 Dining

The college campus accommodates 804 members including students and staff. The college authorities have appointed food supply vendor within the campus area. On an average approximately 800 students and staff utilizing campus area for dining purpose on working days.

Action: The garbage being properly collected through well designed network of garbage collection bins throughout campus. The waste dumping site has been created and then it is being collected by local Municipal system of garbage collection to collect this organic waste from dining facilities on daily basis. Any occasion/college functions the snacks items being served in paper plates. Plastic being avoided strictly. Vermicomposting pit is maintained well.

2.3 Water conservation and prevention of water wastage

The source of water for the college is Municipal corporation water supply for drinking and ground water (Bore well) for other uses. The college has 6 water filters & coolers with 50 Litter LPH capacity and filter water supplied within the premises for drinking purposes. The water quality monitoring is being done regularly. The water consumption within the campus is controlled by campus authority. The storage tanks are as follows

Underground tanks: Capacity-10000 litrs each, 2 Nos.

Overhead tanks: Capacity - 1000 lits each, 2 Nos.

So total water storage capacity 24,000 Litters

The approximate water uses on any working day during working hours can be summarized as follows.

S. No.	Activity	Utilization (Student + Staff)	Total lit. (Approx.)
1.	Drinking	800 x approximately 1 lit	800
2.	Toilet	800 x approximately 3 lit	2400
3.	Watering plants		200
4.	Spraying on play ground		NA
5.	Canteen area		1000
6.	Laboratories		500
			4900

Action:

- 1) Awareness on minimum and adequate water use.
- 2) Regular water quality monitoring. (Water & Waste water).
- 3) Well planned experimental schedule of different classes. Laboratory waste water discharged into drainage system.
- 4) The design of urinals Indian & western Washrooms, Urinals & Latrines- 71 (Girls, Boys & staff) was made in such way that it causes minimum wastage of water. Drainage water from urinals discharged into Municipal drainage system.

2.4 Solid waste management

The college working hours are from 7.30 am to 12.30 pm. There are different activities and projects being implemented in different departments. The number of students in the campus along with staff members goes to approximately 804.

The daily solid waste being generated in the camps categorized in the following way.

S.No	Activity	Utilization (Student + staff)	Total kg.
1	Classroom 45 + Seminar Hall 2 + Staffroom 3 + Girls & Boys common room 2 + Exam section 1 + Reception area 1 + Sport complex 1, reading room 2	47 Dustbin x 300gms	14 kg approximately
2	Laboratories 5 + Chemical store 1	Labs x 250 gms	1 kg approximately
3	Canteen/snaks/meal	Students & staff used for snacks or meal	5 kg approximately
4	Sweeping and cleaning	Campus	10 kg approximately
5	Admin block	All offices	2 kg approximately
			32 kg approximately

Action:

- 1) Usage of recycled paper bags was promoted among students by displaying boards like 'Say No to Plastic'
- 2) Reduce – Reuse – Recycle methods are followed – Different type of chemicals from different laboratories and chemical stores being returned to respective vendor after expiry date.
- 3) Office paper waste being collected and given to vendor for recycling on annual basis.
- 4) Examination paper being retained in the institution for 3 years and then given to vendor for shredding which in turn being sent for pulping for generating recycle paper.
- 5) The collection bins are made for specific types of waste.
- 6) The number of printouts has been reduced from admin blocks and computer laboratories.

Hazardous waste management

The college authorities are well aware about the monitoring and management of chemical-intensive process. This process considers toxicity, downstream impacts, staff safety, cost and packaging.

Action:

- 1) The college performs well in terms of custodial chemical use, monitoring their use, minimizing their impact, and keeping employees and others safe.
- 2) All the chemicals are bought from chemical supply vendors, by contracting on annual basis. The college reduces costs, limits inventory, limits overuse, and help maintain consistent chemicals (consistency helps keep workers safe).

E-waste management

The college has a system to collect e-waste separately in specially designated bin. The specific authorized vendor has been contracted for collection and disposal.

2.5 Carbon dioxide neutrality

Carbon dioxide neutrality has been maintained on the campus by developing greenery with available plants. The 10 to 20 % area is occupied by greenery by different type of plants. The list attached with its significance.

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 programme.

Campus is located in the vicinity of urban area. Various tree plantation programs are being organized during the month of July and August by college and surrounding

villages through NSS unit. This program helps in encouraging eco-friendly actions in the environment which provides pure oxygen within the institute and awareness among citizens. The organization is keen on providing hands on experience to students by providing opportunity to participate in various government initiatives. Students are in real sense being connected to the community at large. The organization has decided to adopt certain villages and to work for rural development purpose.

Action:

- 1) The campus is situated in such an area that there is minimum type of disturbance.
- 2) Specific strategies and plans in place in order to reduce transportation impacts.
 - a) The layout of the campus is relatively open with much space, thus keeping the amount of impermeable surface area below 50%
 - b) The college has a canopy of trees and plants that make the environment healthy.

2.6 Campus Culture and Environmental Awareness

The college has aim to educate all students in the area of environmental studies in an interdisciplinary framework, and provide adequate training for those students who wish to pursue environmental research in accordance with environmentally-related career choices.

Action:

1. College has developed a clear assessment of the environmental studies curriculum for faculty, students, and administration.

2. The college undertakes various activities through effective use of ongoing schemes like N.S.S., through Earn and Learn Scheme. In these schemes students work for beautification of campus, water and power management, the biodegradable and non-biodegradable waste segregation. To create eco-friendly awareness among the students, college arranges special programmes by inviting the eminent personalities, who in turn train and educate stake holders. Students are encouraged to participate in eco-friendly activities by making the activities of eco-club part of the curriculum.
3. College authorities have created an atmosphere of awareness and sense of responsibility within the campus regarding environmental issues. Engaged students, faculty, staff and administration in cooperative analysis and response to these issues.
4. College has developed its own environmental policy for the campus and displayed it everywhere.

Environment Policy

We are committed to protect Environment, Occupational Health and Safety of all through our work and activities. We Endeavour to...

Prin. Dr. Sudhakar Rao Jadhavar Arts, Commerce & Science College, Pune is committed to reduce its impact on the environment. We will strive to improve our environmental performance over time and to initiate additional projects and activities that will further reduce our impacts on the environment.

Our commitment to the environment extends to our students, our staff, and the community in which we operate. We are committed to:

- 1) Comply with all applicable environmental regulations.
- 2) Prevent pollution whenever possible.
- 3) Minimizing waste by reviewing purchasing practices and segregating waste for reuse and recycling.
- 4) Purchase and use environmentally responsible (recyclable, refurbished, etc.) products from environmentally responsible suppliers (i.e. suppliers who emphasize the need for renewable energy supplies).
- 5) Train all of our staff on our environmental program and empower them to contribute and participate.
- 6) Continually improve over time by striving to measure our environmental impacts and by setting goals to reduce these impacts each year.

As per the policy guidelines the institution is implementing

- 1) College is implementing Environmental Module as prescribed by the Savitribai Phule Pune University, Pune.
- 2) Organization of various seminars & workshops on regular basis

3. General Recommendations:

- The College should improve its monitoring and reporting of energy, water and other resource usage.
- To reach the goal of a 30% recycling rate, which some institutions have achieved, college should compost food waste and be more vigorous about recycling education.
- College should work towards composting post-consumer food waste generated by the dining areas. In order to help reduce the large amount of post-consumer food waste, the College should provide better labeling and more self-service options and work to educate students about food waste.
- The college should continue to stay with current chemical products that may have a minimal environmental impact and make this an explicit formal goal.
- Any future increases in servers should be consolidated in one "machine room," rather than building another on campus with the same high maintenance requirements.
- The EAC should make decisions with respect to continuous input, interests and commitments of the students, participating faculty, and administration.
- College should develop a mechanism of monitoring and information dissemination of various environmental parameters. As have problems with accurately and consistently monitoring electrical usage (especially in terms of individual buildings) and water usage.
- College should take efforts by putting Environment awareness slogans on the walls to inculcate values on student's mind.
- Chemistry department should encourage "Green Chemistry" program.

- The roof area shows potential for rain water harvesting.
- Environment Awareness programmes and Environmental field visits should be arranged on more frequent basis for Hands on Experience.

4. Conclusions

The findings of this report show that the college performs fairly well on sustainability issues. The college does consider the environmental impacts of most of its actions and makes a concerted efforts to act in an environmentally responsible manner. In conversations with faculty, staff administration at the college, shows improvements made over the last few years to enhance environmental awareness.

Even though the college does perform fairly well, the recommendations in this report highlights many ways in which the college can work to improve its actions and become a more sustainable institution.

In this section, the recommendations are ranked in terms of priority.

4.1 The high priority recommendations are:

- Work towards worm composting the post-consumer food waste generated by the dining halls.
- Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact.

4.2 The medium priority recommendations are:

- Adopt water use monitoring system.
- Look towards meeting different environmental standards.
- Develop explicit policies concerning the impact of new construction on impervious surface area and runoff.

- Continue to support the work of the EAC and should ensure that its recommendations are considered carefully and in a timely manner through the appropriate chain of command.

4.3 The minor and future concerns are:

- Encourage student project on environmental footprint for College.
- Continue expanding research program to better educate students about natural history and college role in preserving biodiversity and optimum utilization of natural resources.
- Apply fees/charges for parking and implement it across all types of employees, faculty, and students in order to encourage use of public transport.

List of Plants available at College:

Cordyline Fruitecosa, Rose, Aegle marmelos, Hibiscus, Banyan

Annexure No1.

Solid waste collection bins



Solid waste disposal to municipal corporation vehicle



E-waste management facility created during lock down period (Covid)



Maintenance & cleaning work of water storage tanks



Annexure 2

Letter waste disposals





Annexure 3

Collage conducts Tree Plantation on regular basis





Cleanliness drive





Environment awareness slogans



Ventilated & Digital Classrooms



Well maintained Laboratories



Well maintained Computer Lab



Annexure 4

Greenery within Campus



Solar System



Safety measures



Audit Participants

On behalf of Institute:

Name	Position/Department
Prin. Dr. Sudhakar Rao Jadhav	Principal
Prof. Savita A. Bidkar	Professor
Asst. Prof. Suvidha Ghadge	Asst. Professor
Asst. Prof. Seema C. Koshti	Asst. Professor

On behalf of Aditya Envirotech:

Name	Position	Qualification
Ram Shinde	Lead Auditor	M.Sc. (Environment Science), Lead Auditor ISO 14001:2015,



Office Address- Office No-403, Fourth Floor, Chaitanya Terrace,
Sr. No. 43/31, 32, 33, behind Ganapati Temple, Manaji Nagar,
Narhe, Pune, Maharashtra 411041 India.

ENERGY MANAGEMENT ASSESSMENT (2023-2024)



LATE UDDHAVRAO TULASHIRAM JADHAVAR FOUNDATION'S,

**PRIN. DR. SUDHAKARRAO JADHAVAR
ARTS, COMMERCE & SCIENCE COLLEGE.**

MANAJI NAGAR, NARHE-DHAYARI, PUNE-411 041.

(AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE)

1. Introduction

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This report can be a management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects." In view of making green and eco-friendly campus the organization has taken an important step to understand the environmental parameters within the campus. This report serves to highlight, the efforts towards greener campus. The first step taken in this direction is establishing a baseline of existing condition.

An energy audit is an inspection and analysis of energy flows in a building with the objective of understanding the energy efficiency of building being audited. Typically, an energy audit is conducted to seek opportunities to reduce the amount of energy used by the facility without negatively affecting the comfort of the facility or the

production/output in case of a business. This includes identifying the systems and areas of opportunity that will have the greatest impact in improving comfort, indoor air quality, durability & reliability.

2.1 Campus planning and construction

Energy Conservation

The college campus has planned in 7456 Sq. meters quite significantly that, there is enough open space and 45 ventilated spacious classrooms and 2 seminar halls to accommodate students. The build-up area is 65076.00 Sq. Feet. The energy utilization pattern of college on any working day is as follows:-

Instructional Area:

S.N.	Room Type (Mention Class Room/ Lab/Toilet, etc.)	Completion of Flooring	Completion of Walls and Painting	Completion of Electrification and Lighting
1	Classrooms	Yes	Yes	Yes
2	Seminar Hall	Yes	Yes	Yes
3	Sport Department	Yes	Yes	Yes
4	Examination department	Yes	Yes	Yes

Administrative area:

S.N.	Room Type (Mention Class Room/ Lab/Toilet, etc.)	Completion of Flooring	Completion of Walls and Painting	Completion of Electrification & Lighting
1	Central Store	Yes	Yes	Yes
2	Faculty Room	Yes	Yes	Yes
3	Security	Yes	Yes	Yes
4	Cabin for Head of Dept	Yes	Yes	Yes
5	Office All Inclusive	Yes	Yes	Yes

Amenities area:

S.N.	Room Type (Mention Class Room/Lab/Toilet, etc.)	Completion of Flooring	Completion of Walls and Painting	Completion of Electrification & Lighting
1	Toilet	Yes	Yes	Yes
2	Sport Auditorium	Yes	Yes	Yes
3	Seminar hall	Yes	Yes	Yes
4	Girls Common Room	Yes	Yes	Yes
5	Boys Common Room	Yes	Yes	Yes

Circulation Area:

S.N.	Room Type (Mention Class Room/Lab/Toilet, etc.)	Completion of Flooring	Completion of Walls and Painting	Completion of Electrification & Lighting
1	Corridors	Yes	Yes	Yes
2	Staircases	Yes	Yes	Yes

Electricity utilization pattern

Energy Utilization Places	Appliances with approximate Quantity	Approximate Total Consumption
Classroom, Laboratories, Computer laboratories & all Departments, Administrative Office, Principal Office, Auditorium, Board Room, Examination Department, Boys & Girls Common Room, Library etc.	AC - 1, TV -5, Fan-110, Tube light - 178, LED Bulb - 72, Corridors & Common area lights -53, Street light-8, Computers -367, Printers- 02, Server - 1, Xerox machine - 2, Scanner - 2, Projector - 07, Refrigerator-, Auto clave-, Microwave-, water Purifier -6, Water Cooler-6, Water Pumps -2, CCTV - 74,	Avg. Monthly power Req.= 4,075 Kwh Avg. Solar Power Generated= 1000 Kwh Avg. Net Power taken from MSEB= 3000 Kwh

Action:

- 1) Height and size of the windows in classrooms and laboratories provide adequate ventilation. There is no heat trapping mechanism and glare due to excessive use of glass in the campus.
- 2) There is less construction cost due to well-designed structure. The courtyard type of planning is used as interaction space by the students thus utilizing the optimum space.
- 3) There is significant consideration for disaster management. The building is earthquake proof and provides ample fire escape routes.
- 4) Strictly turning of monitors, fan, tube lights, and laboratory instruments after the work.
- 5) Organizing lectures on energy conservation in order to give awareness to the students.
- 6) Perhaps the most significant improvement has been the general switch from CRT (cathode ray tube) monitors to LCD (liquid crystal display)/flat panel display monitors. This change occurred in response as an initiative for meeting Kyoto Protocol standards. Although over twice as expensive up front, LCD monitors are estimated to use 40-60% less energy overall than CRTs.
- 7) All computers purchased by the college have an Energy Star rating, which is beginning to be a standard requirement for computers.
- 8) Retired computers and other equipment are sent to e-storage room and then it is collected by vendor.
- 9) The printouts being taken on one sided used paper.
- 10) The solar power project of capacity 20 Kw is in operation at present in the college campus.

Conclusion:

The findings of this report show that the college performs fairly well on sustainability issues. The college does consider the environmental impacts of most of its actions and makes a concerted effort to act in an environmentally responsible manner. In

conversations with faculty, staff, and administration at the college. A policy to minimum possible use of energy to sustain environment has been decided.

Energy efficiency is the need of future. ... The organization shows a potential to become energy efficient institution, which can be collective step toward the direction of renewable energy, environmental protection, and sustainable living. Having such an organization helps management reduce their bills and provides an excellent investment.

Suggestion:

Routine energy auditing will help organization to

- (i) Map energy usage within the organization
- (ii) Conserve energy,
- (iii) Improve energy efficiency and thereby
- (iv) Maximize their institutional energy and cost savings.

Energy Policy

Prin. Dr. Sudhakar Rao Jadhavar Arts, Commerce & Science College, Pune is dedicated to the responsible and sustainable consumption of energy. We dedicated ourselves for

- Reduction of energy use in the premises.
- Reduction of dependability on exterior energy sources.
- Reduction of environmental damage and pollution.
- Reduction of damage to the environment associated with the exploitation of resources
- Reduction of energy bills.
- Increase the life span of the equipment in college premises.
- Increase in cost-effectiveness through optimization of energy expenditure



AET/DSJACS/23-24

ISO 9001:2015 CERTIFICATE NO.22EQIY50

Date- 10th April 2024

Green, Environment and Energy Audit Certificate

IS PRESENTED TO,

Late Uddhavrao Tulashiram Jadhavar Foundation's,

Prin. Dr. Sudhakarrao Jadhavar Arts, Commerce & Science College.

Manaji Nagar, Narhe-dhayari, Pune-411041.

for its environment friendly actions, energy conservation, energy saving measures and its implementations along with well-structured environment policy for the academic year 2023-2024.



Mr. R. S. Shinde

AUDITOR.

ISO 14001:2015, ULN:400177