

Baseline environmental assessment
(2022-23)



Late Uddhavrao Tulashiram Jadhavar Foundation's,

DR. SUDHAKAR JADHAVAR

ARTS, COMMERCE & SCIENCE COLLEGE.

(Affiliated to Savitribai Phule Pune University, Pune)





Principal

Green Audit

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



B. Men

Principal Green Audit

► 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.


Dr. Sudhakar 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.



Principal

Green Audit

Dr. Sudhakar Jadhavar Arts, Commerce
& Science College, Narha - Dhayari, Pune-41

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) – (2021- 2022)

SN	Name of the Committee Member	Designation
1	Prin. Govind M. Sonawane	President, (Principal)
2	Prof. Savita A. Bidkar	Coordinator
3	Asst. Prof. Arundhati S. Kulkarni	Member
4	Asst. Prof. Seema C. Koshti	Member
5	Dr. Renuka S. Ghadyalji	Member
6	Mrs. Sulkshana A. Panase	Non-Teaching representative
7	Mr. Parasmal R. Prajapati	Parent Representative
8	Mr. Tanay Vaidya	Boys representative
9	Miss. Pooja Gore	Girls representative

Bilal

Principal
Green Audit

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 791 members including students and staff. The college authorities have not appointed any food supply vender within the campus area. Due to Covid-19 pandemic the functioning of the college was partially through online platform & partially physical presence, so there was partial physical utilization of the campus.

Action: The waste being collected by Municipal corporation system from campus area on daily basis.

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 2: Capacity-1000 litrs each

Overhead tank 2: Capacity - 1000 lits each

So total water storage capacity 4,000 Litters

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



Principal

Green Audit

S.No	Activity	Utilization (Student + staff)	Total lits(Approx.)
1	Drinking	700 x approximately 1 lit	700
2	Toilet	500 x approximately 3lit	1500
4	Watering plants		300
5	Spraying on play ground		NA
6	Canteen area		N/A
			2500

Action:

- 1) 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- 92 (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 791.

Due to covid-19 Situation College was partially open in first half & in second half college activities were regular.



[Signature]
Principal

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 Auditorium)	24 Dustbin x 300gms	7 kg approximately
2	Laboratories 5 + Chemical store 1	Labs x 250 gms	1 kg approximately
3	snaks/meal	Students & staff used for snacks or meal	5 kg approximately
4	Sweeping and cleaning	Campus	15 kg approximately
5	Admin block	All offices	3 kg approximately
			31 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.



Prin. Dr. Shudhakar Jadhavar
Principal

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.

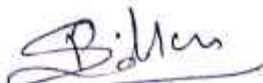
2.5 Carbon dioxide neutrality

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




Principal

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.

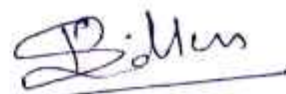
2.6 Campus Culture and Environmental Awareness

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 engineering or environmentally-related career choices.

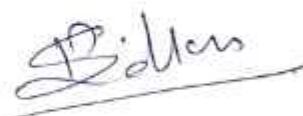
Action:

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




Principal

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.



Principal

Prin. Dr. Shudhakar Jadhav Arts, Commerce
& Science College, Pimpri, Pune - 41



Environment Policy

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

Dr. Sudhakar 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



Principal

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.




Principal

- 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:

- Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact.
- With regards to the concerns mentioned in this report, the College should consider adopting specific goals and targets in its pursuit of sustainability.

4.2 The medium priority recommendations are:

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



Dr. S. S. ...
Principal

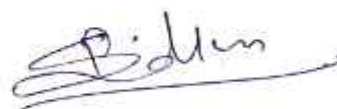
- Continue to support the work of the EAC and should ensure that its recommendations are considered carefully and in a timely manner through the appropriate chain of command.

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.
- Should formulate "Environmentally Responsible Purchasing Policy" for college

List of Plants available at College:

Cordyline Fruitecosa, Rose, Aegle marmelos, Hibiscus, Banyan



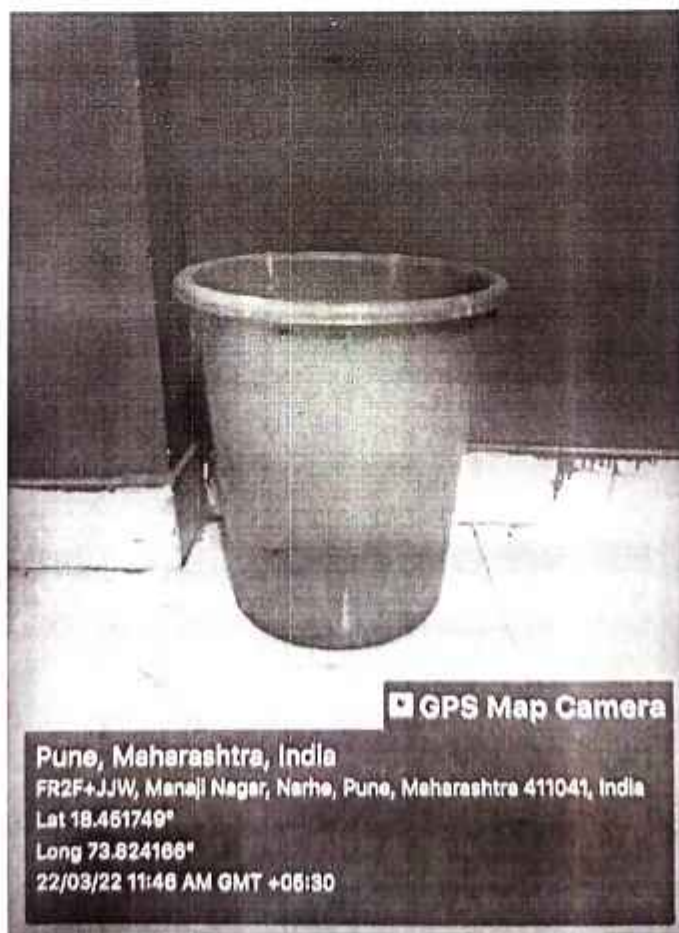
Principal

Prin. Dr. Shubhash Chavan Arts, Commerce
& Science College, Wankhede, Pune-41



Annexure No1.

Solid waste collection bins



Solid waste disposal to municipal corporation vehicle



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

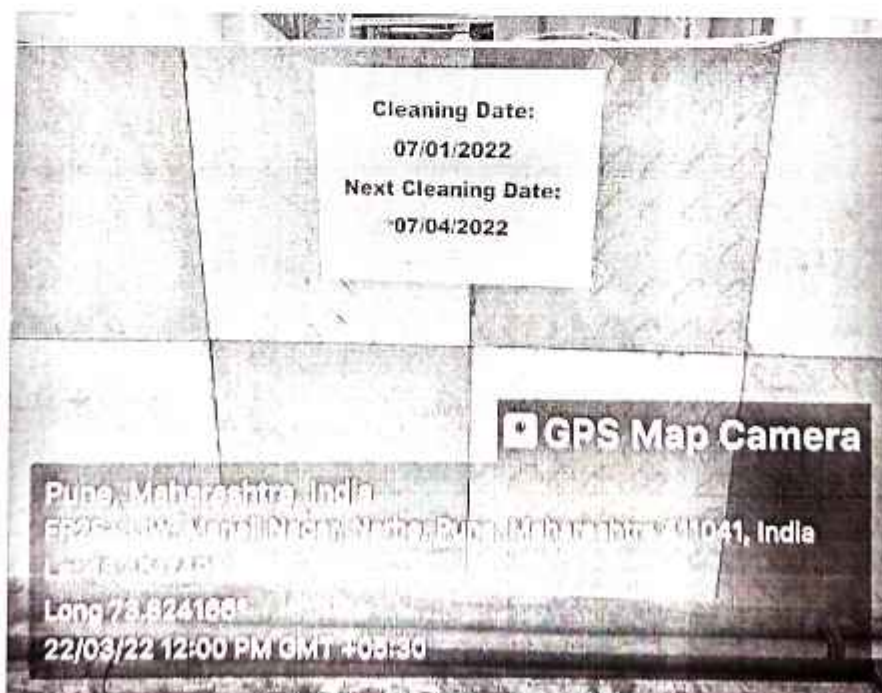
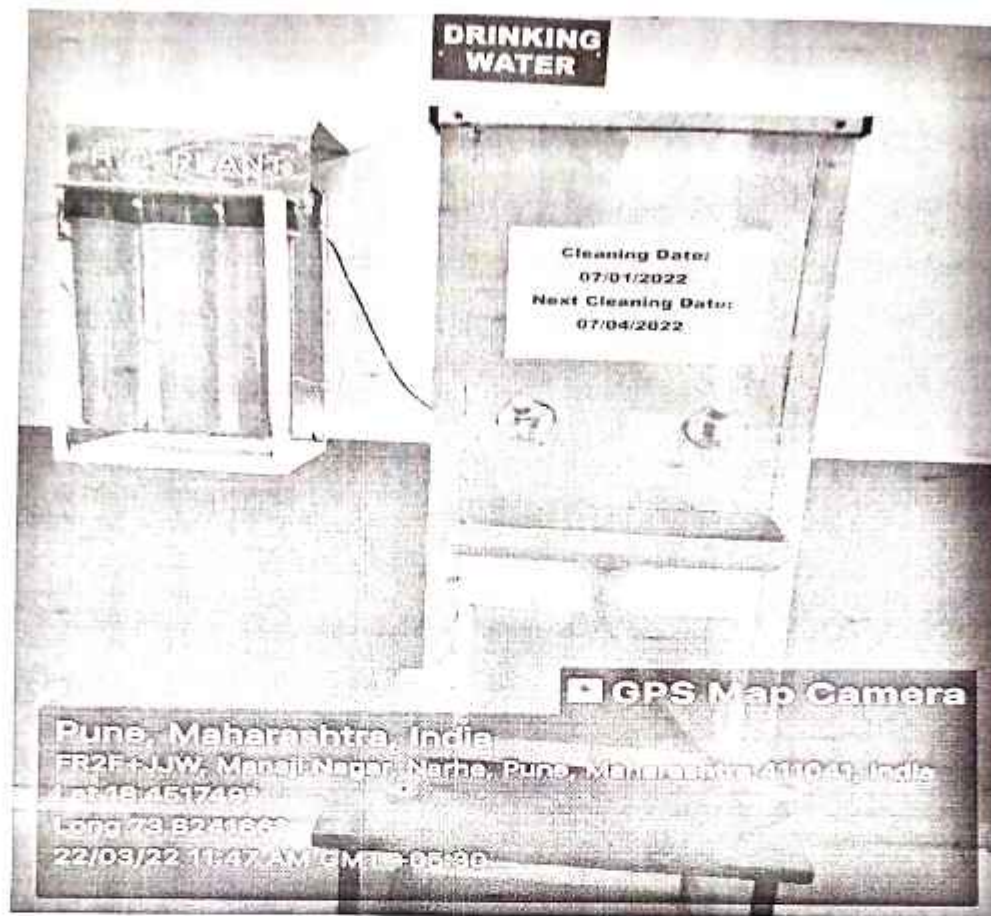


Dr. Shudhakar Jadhav

Principal

Prin. Dr. Shudhakar Jadhav Arts, Commerce
& Science College, Narhe - Wagari, Pune - 41

Mainataincnace & cleaning work of water storage tanks



Annexure 2

Letter waste disposals

१९/०९/२०१९


दीखेला

मा. सारंगधर / प्राध्यापिका अधिकाारी, प्राध्यापकायत नगरे, सा.हंगेली, जि.पुणे.



मोबायल द्यावला वेगवेगळी वी.पी.डी. शुभकरराव जाधवार कॉलेज ऑफ आर्ट्स, सायन्स व कॉमर्स नगरे, हंगेली, पुणे. या महाविद्यालयातील सुका व कोला कंपस वरवीस प्राध्यापकायतीच्या मंडळाची स्फुट विविधितपणे सोळा करून त्याची विजेकट प्राध्यापकायतीच्या अधिकाराज केवळी आहे. तसेच महाविद्यालयाचे सांठपणी मातुन वेगवेगळी स्वतः पाईप लाईन प्राध्यापकायतीच्या सांठपणी लाईनशी जोडण्यात आलेली आहे.

सबब मागीललेयकन-वाचला दिव्य असे.

प्राध्यापिका अधिकाारी
प्राध्यापक नगरे


१९/०९/१९



**Lions Club of Pune Pearl**
Club No. 07007 District-32(MDZ)
M.J.F. Lion Pravin Khule
Street : Chaudhary (10) - 411004
Office : AJIT TRAVELS
Jadhav Road, 1st Fl., Ground Floor, 1st Fl. Road, Pune - 411004
Mobile : 9822048488, 9822778888 Email : pravin@lionsclubofpune.org

To,
The Principal,
Prin. Dr. Sudhakar Jadhavar
Arts, Commerce and Science College
Pune- 411043

Date : 20-3-2023

Subject : Collection and disposal of Old / Scrapped electronic items / gadgets in Academic Year 2021-22

Respected Sir / Madam,
Lions Club of Pune Pearl collects scrapped electronic items / gadgets like printers, monitor, processor and mouse, etc. time to time from your college / institution Dr. Sudhakar Jadhavar Arts, Commerce and Science College and has disposed them properly.

Thank you, for your kind co-operation & look forward to do such more Activities in future too.

Yours Faithfully,

M.J.F LION PRAVIN KHULE
Co-ordinator E-waste



Annexure 3

Collage conducts Tree Plantation on regular basis



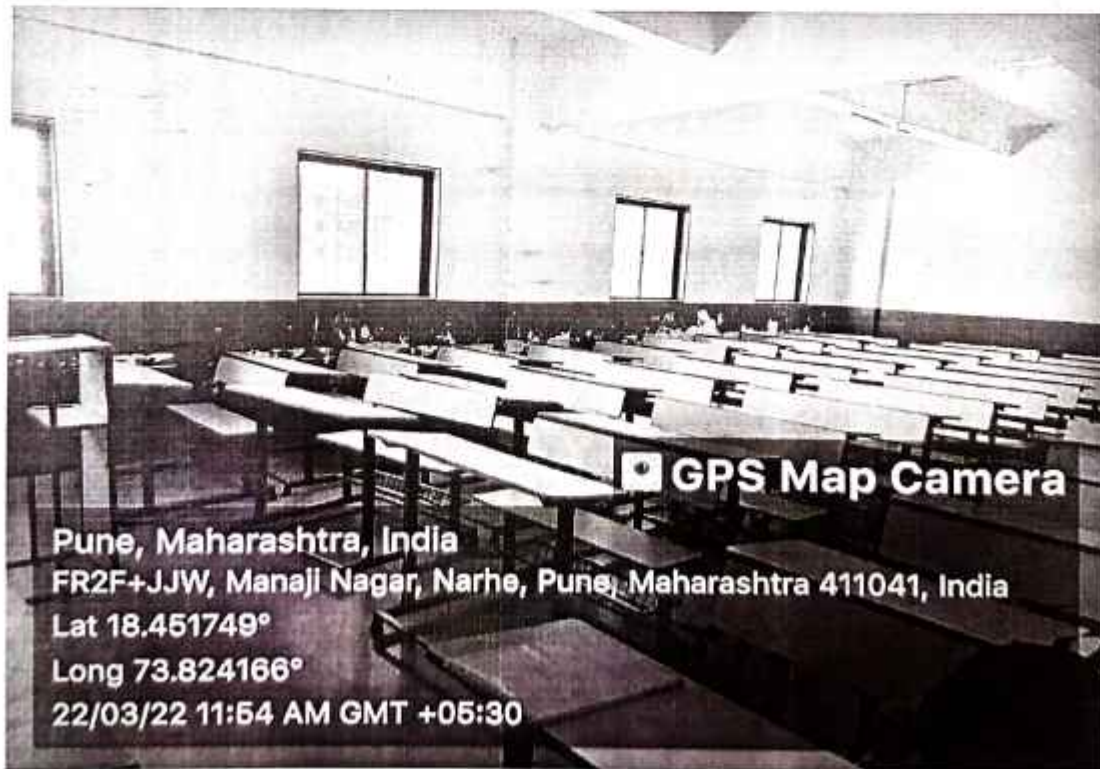
Importance of water conservation



Environment awareness slogans



Ventillated Classrooms



Pune, Maharashtra, India

FR2F+JJW, Manaji Nagar, Narhe, Pune, Maharashtra 411041, India

Lat 18.451749°

Long 73.824166°

22/03/22 11:54 AM GMT +05:30

GPS Map Camera



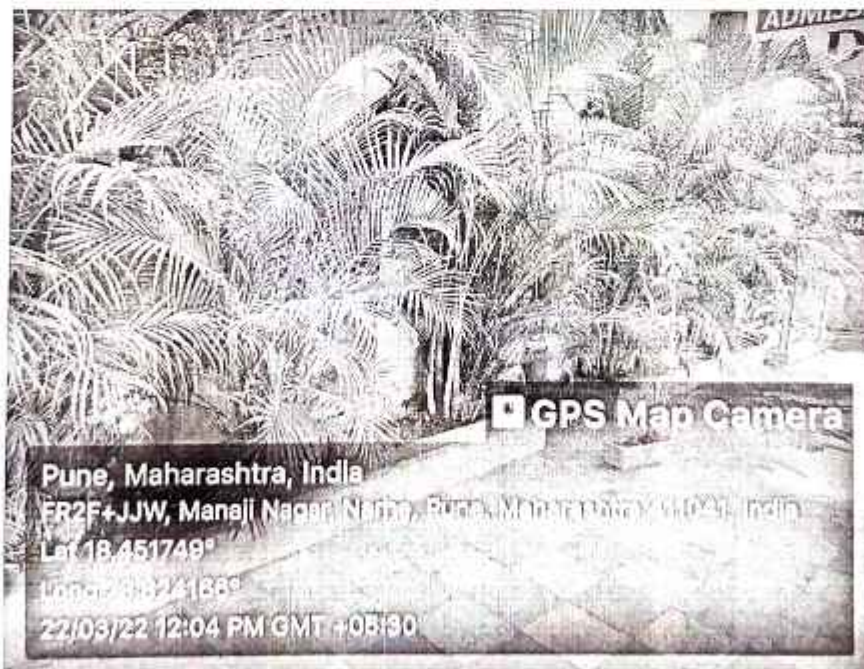
Shikha
Principal

Well maintained Laboratories



Annexure 4

Greenery within Campus



Dr. Shudhakar
Principal



Solar System



Dr. Shurubhai Jadhwar

Principal

Dr. Shurubhai Jadhwar Arts, Commerce & Science College

Safety measures



Audit Participants

On behalf of Institute:

Name	Position/Department
Prin. Govind M. Sonawane	Principal
Prof. Savita A. Bidkar	Professor
Asst. Prof. Arundhati S. Kulkarni	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,
Suryakant Samant	Co- Auditor	M.Sc. (Environment),



Signature

Principal



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. www.adityaenvirotech.com



Dr. Shudhakar Padilkar

Principal
P.D. Shudhakar Padilkar Arts, Commerce
& Science College, Narhe - Dhayari, Pune - 41