7.1.5 - Green campus initiatives include

DIRECTOR
MIT Academy of Engineering
Alandi (D.), Pune-412 105.

MIT | Academy of Engineering

POLICY DOCUMENT
FOR
GREEN CAMPUS

Campus Engineer

Director

MIT ACADEMY OF ENGINEERING ALANDI (D) DIST PUNE

Index

Context

A Green Campus is a place where environmental-friendly practices and education combine to promote sustainable and eco-friendly practices on the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to the environmental, social, and economic needs of mankind. MIT Academy of Engineering (MITAOE) is aiming to manage its operations in ways that are environmentally sustainable, economically feasible, and socially responsible i.e. making the campus a *Green Campus* where environmental-friendly practices and education combine to promote sustainable and eco-friendly practices. The campus is striving to develop on a self–sustainable basis in the areas of power, water, and cleanliness. Therefore, this policy represents an important component of the institute's broader sustainability strategy. This document sets out the institute's aims and objectives for safeguarding the environment and details the organization and arrangements for implementing and monitoring them.

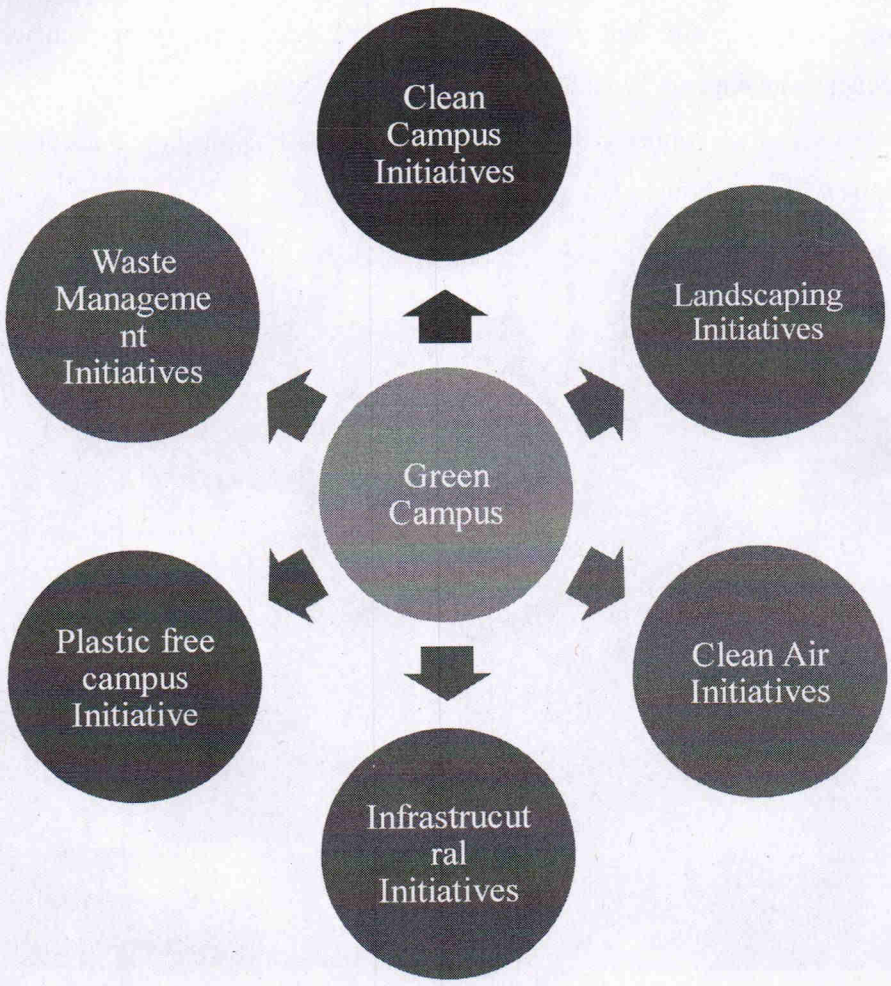
Aims & Objectives

- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans, and programs for social development and outreach activities.
- To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practices and the reduction of any adverse effects on the environment.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To make the campus plastic-free. To measure and reduce environmental emissions/ carbon footprints

Scope of the Policy

The Green Campus, Energy, and Environment Policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, and administrative functions from the standpoints of energy efficiency, sustainability, and the environment

The focus areas of this policy are shown in the following chart

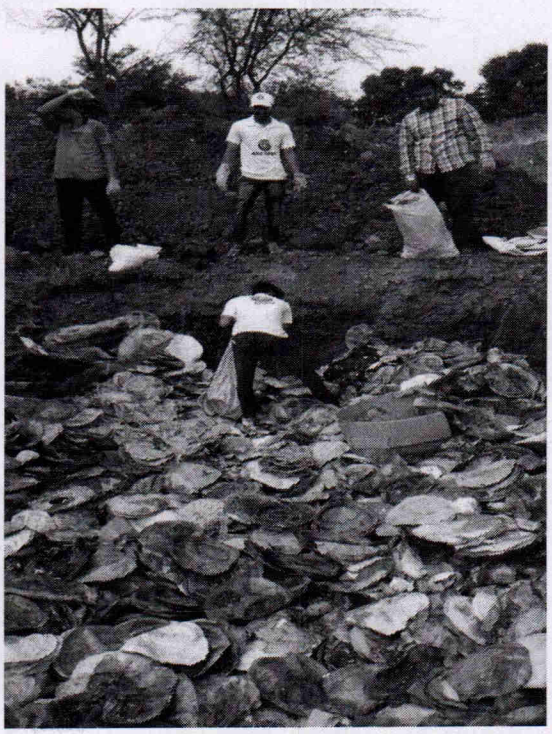


Clean Campus Initiatives

MIT AOE had pledged to actively coordinate cleanliness activities in the college and beyond the campus by the vision of Swachh Bharat Abhiyan. It commits to continuing with this Programme. The broad vision is as follows:

- Generating mass awareness of cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute proactively.
- Activities under 'Swachh Bharat Abhiyan' and 'Unnat Bharat Abhiyan" will be a key component of all the community work being done by NSS volunteers of the college.
- Events such as poster and slogan competitions, essay writing, spoken word poetry, speeches, and skits on 'Swachh Bharat' will be organized.
- Rallies on themes connected with 'Swachh Bharat Abhiyan' in and around the college campus will be conducted to create mass awareness.

Clean Drive-by NSS



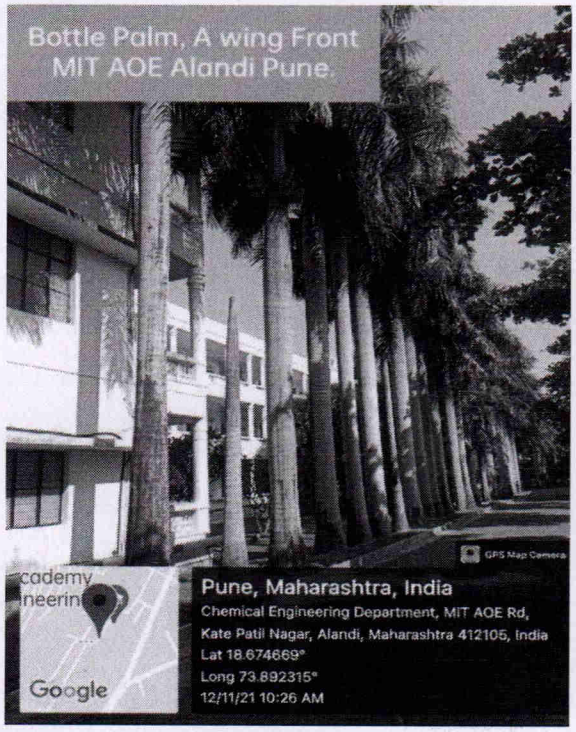
Clean Drive-by NSS

Landscaping Initiatives

The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. It is a vital part of the life of a campus, providing space for study, play, outdoor events, relaxation, and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness of the environment.

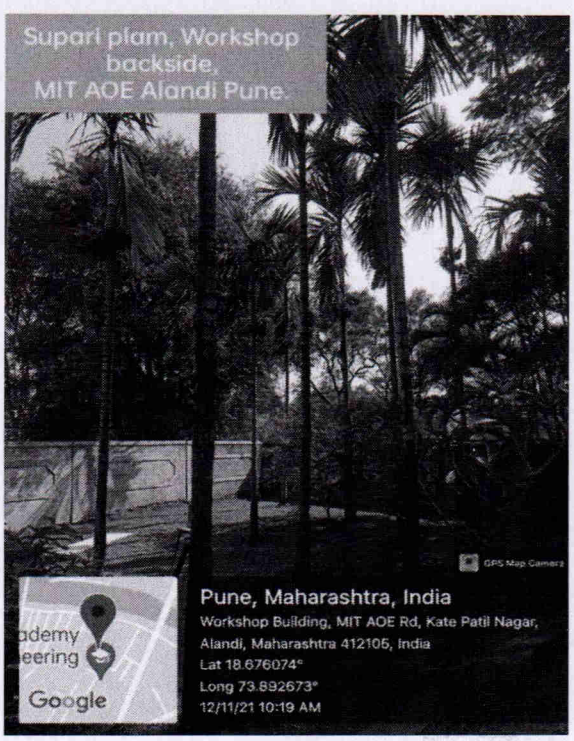
There are more than 675 trees and more than 4000 shrubs on campus along with 3.35 acres of grass cover. The landscape of trees and plants provides the 3500+ students and staff with clean and cool air and is a soothing environment.

The diverse green cover of MITAOE is also home to several animals and rare birds across at least 9 and 14 species respectively, creating a campus rich in biodiversity. The college commits to enriching this healthy habitat and maintaining the symbiotic relationship of the institution with nature by organizing annual tree plantation drives and Encouraging student societies/clubs to hold tree planting events

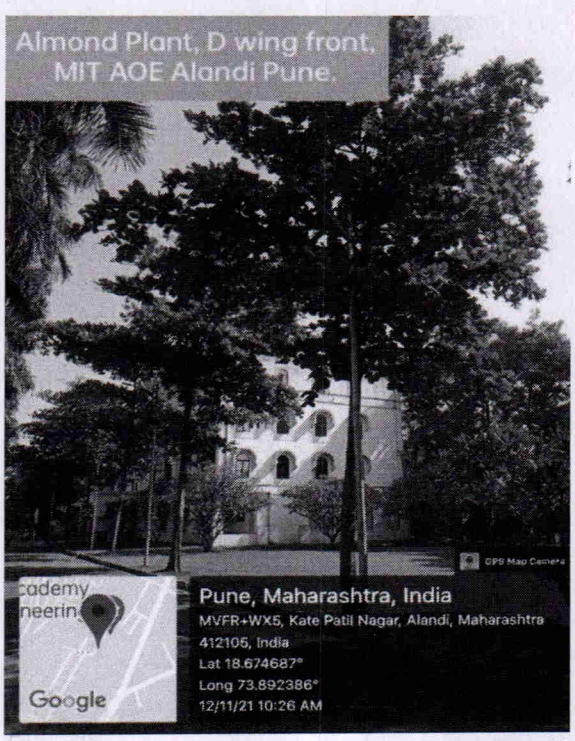


Landscape in Campus

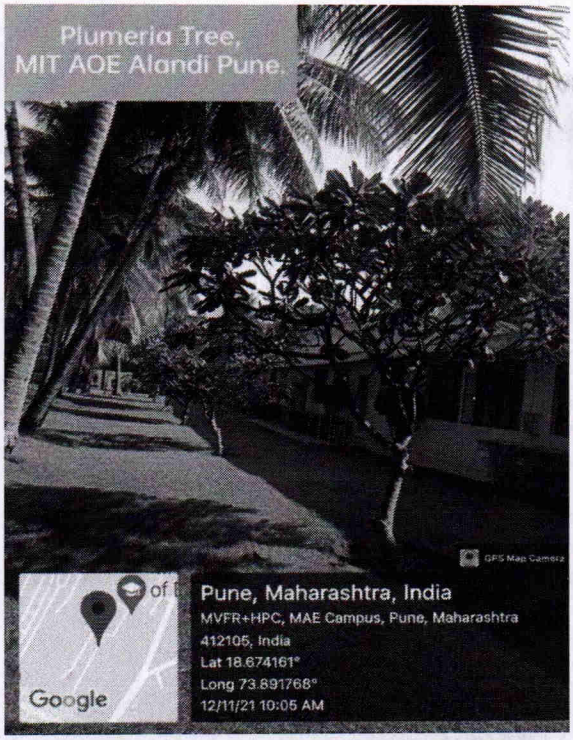
Landscape in Campus



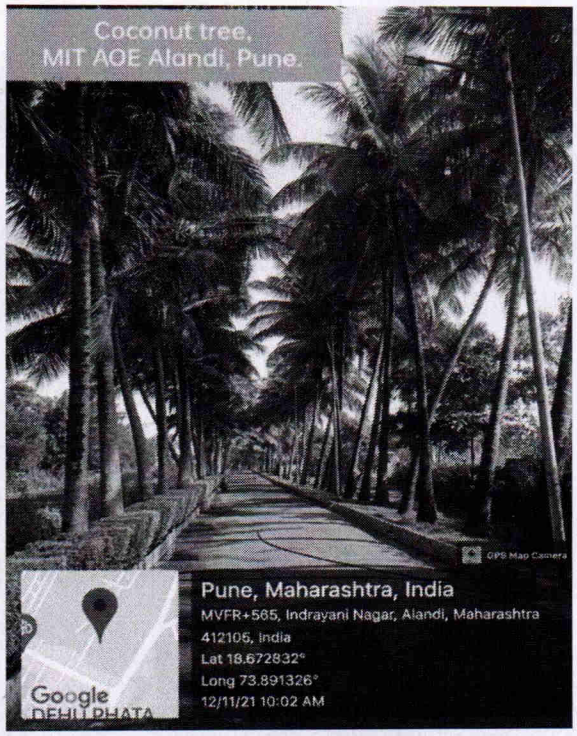
Landscape in Campus



Landscape in Campus

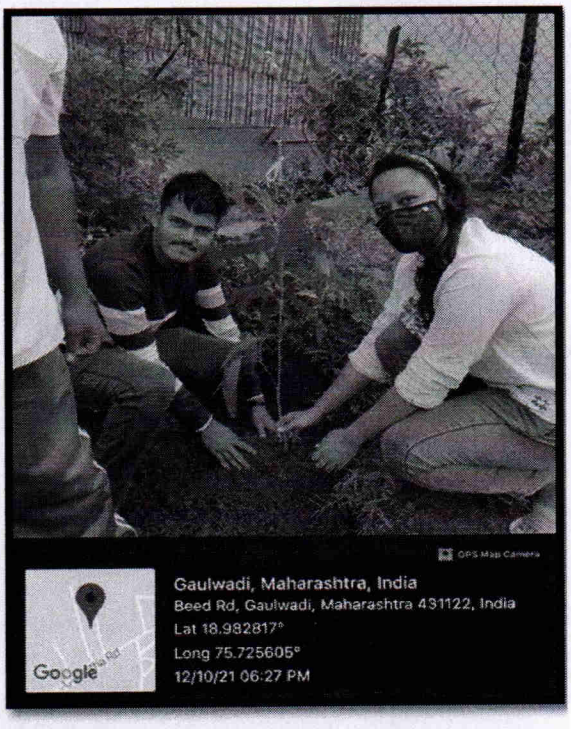


Landscape in Campus



Landscape in Campus

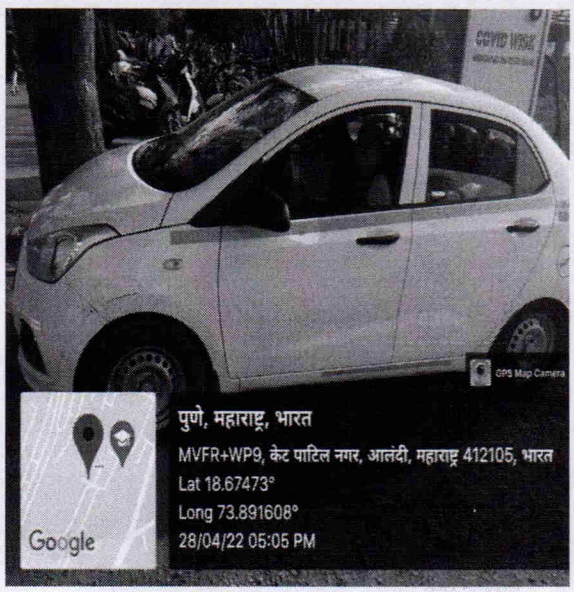
Tree plantation



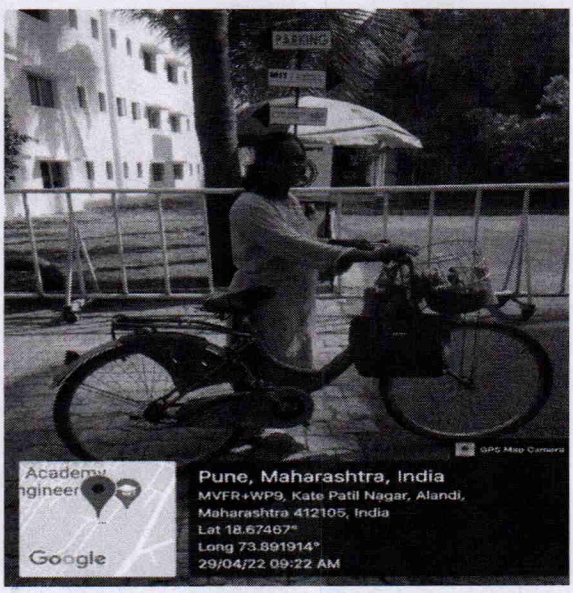
Tree plantation

Clean Air Initiatives

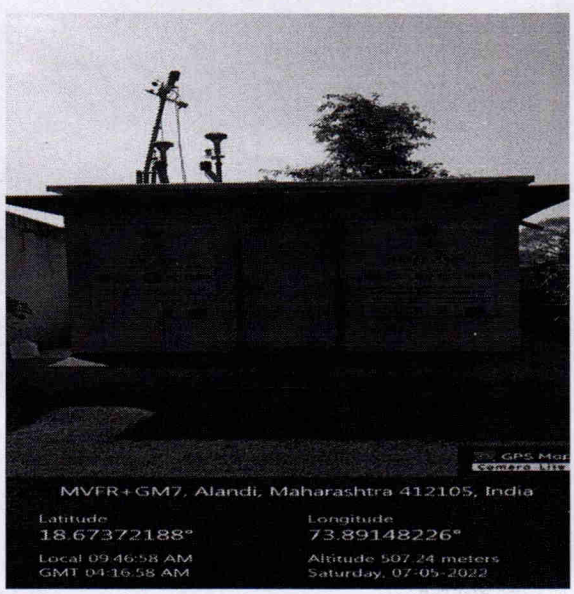
We encourage our students and staff to use public transportation. We encourage carpooling to college, an activity that will control air pollution and strengthen social interaction. All the vehicles of college staff/ faculty members should be getting the emission certification before entering on the vehicle in the college campus. The college has also installed SAFAR under the aegis of the Ministry of Earth Science, Government of India. This system helps to identify the health of the air in its vicinity., the college prohibits smoking and the use of other tobacco products.



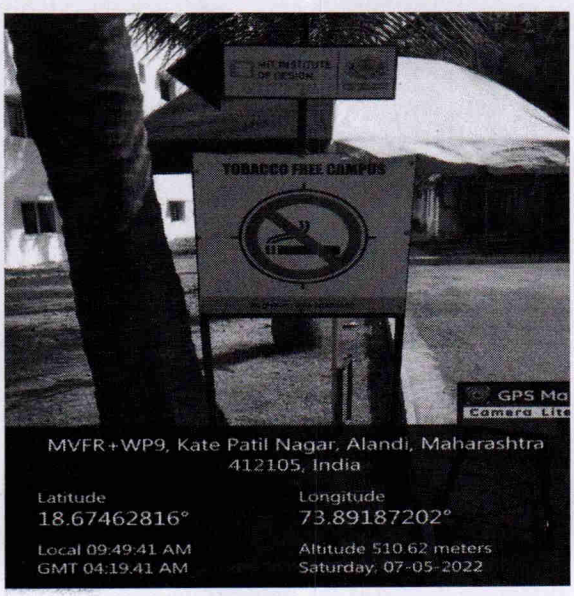
Carpooling by faculty



Use of bicycles by faculty



SAFAR Center



Smoking and Tobacco-free campus

Infrastructural Initiatives

- Renewable Sources of Energy

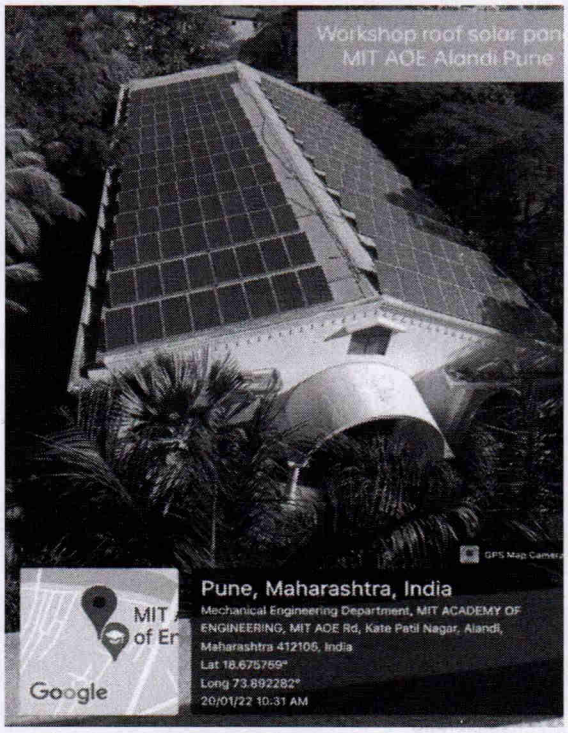
MIT AOE is dedicated to minimizing and sustainably managing its use of electricity. The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus. The college has installed a Solar Plant whose Capacity is 435 kW. It was installed in 2018. There are 1380 Modules of 315 Watts, it is of Waree make and the Inverter is made of Fronius Eco, load 27kWp each

- Energy Saving and Energy Efficient Equipment

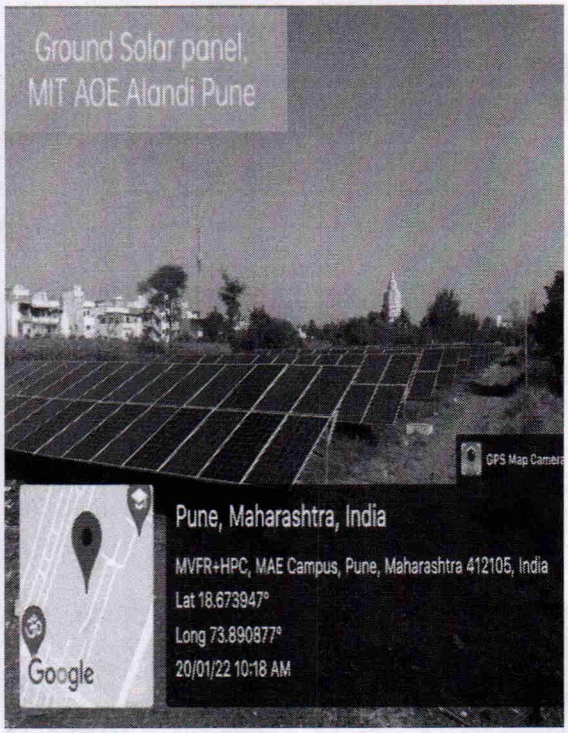
We commit to installing environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The college believes in using cleaner energy such as LED lighting. There are a total of 2,137 lights on the premises; out of which 1767 lights are of LED type, 16 are PL tube, 269 PL-3, and 85 CFL type.

- Water Conservation through Rainwater Harvesting System

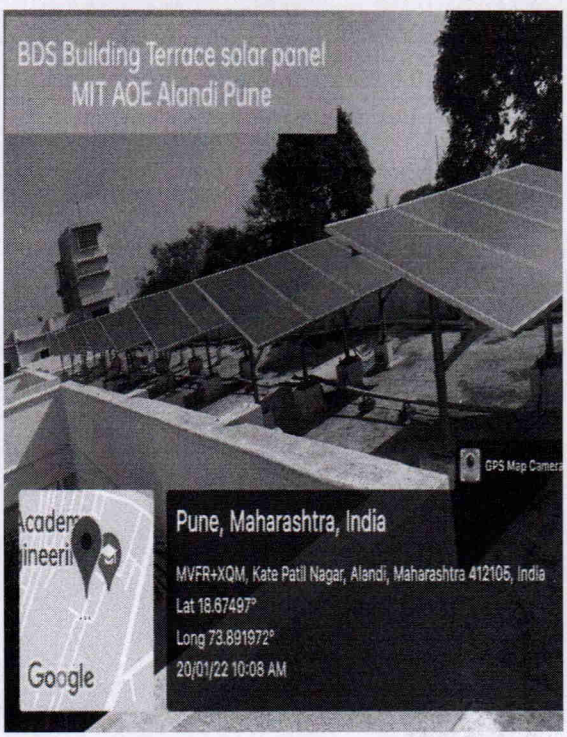
Water is one of the basic needs. Pure drinking water is a resource that needs to be preserved efficiently. The college has given more emphasis on understanding the techniques which are best suited to the site to increase water conservation in terms of awareness and practice. The college has performed rainwater harvesting through different means. It is done through the groundwater recharging and upgrading the water quantity for bore well recharging and the water table is maintained well naturally. A particular system is adopted for harvesting the water and its reutilization. The areas of gardens and tracks do not have any kind of flooding, and water is percolated on its own.



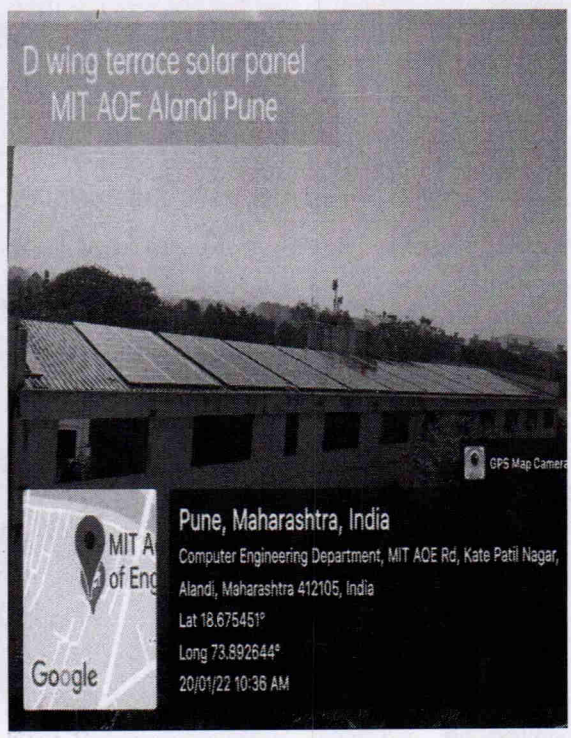
Solar panels on building roof



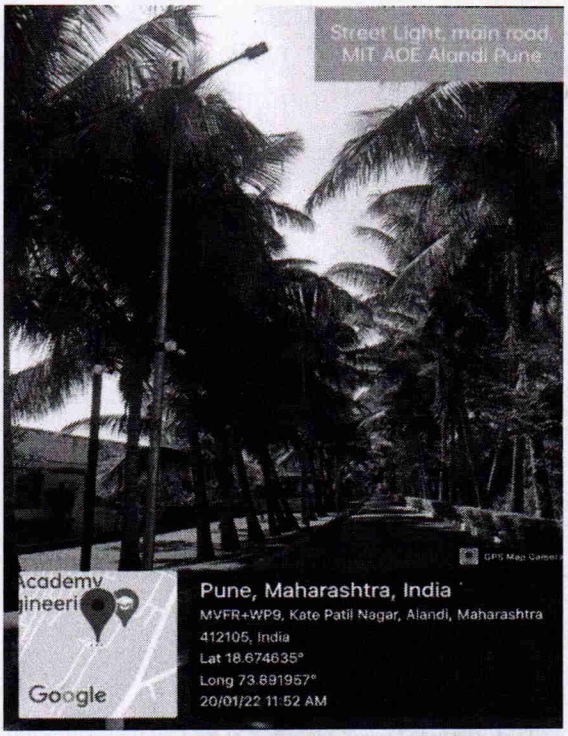
Solar panels on the ground



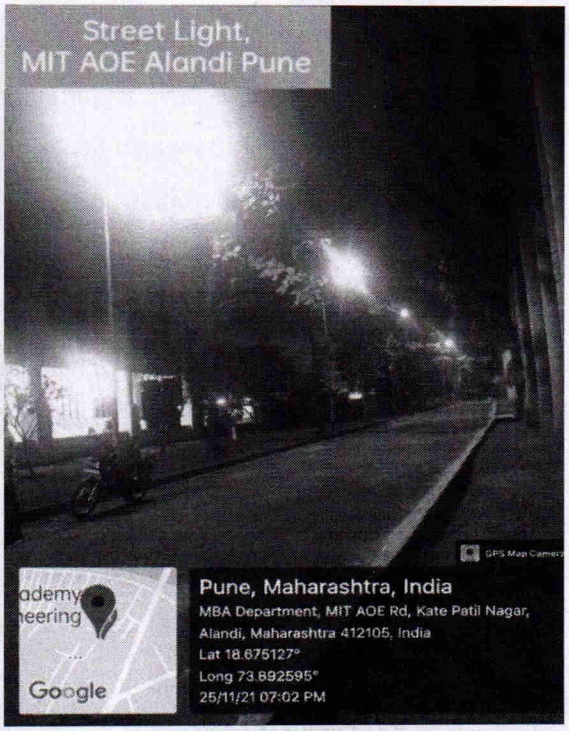
Solar panels on building roof



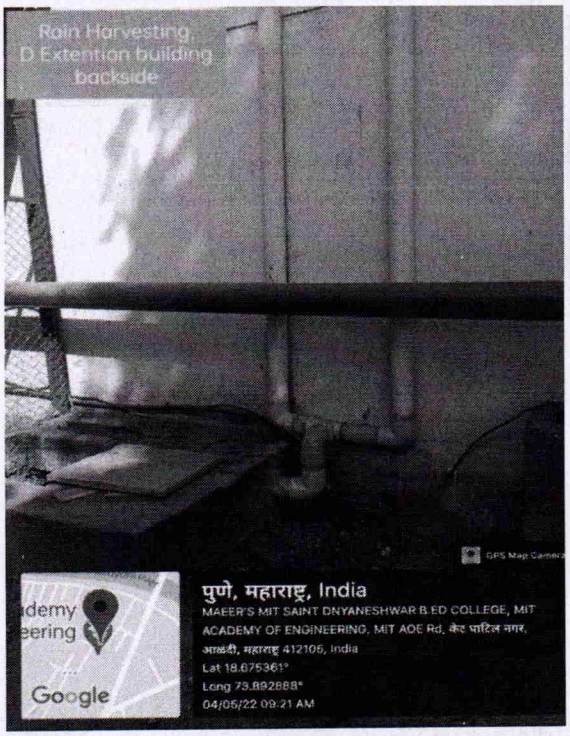
Solar panels on building roof



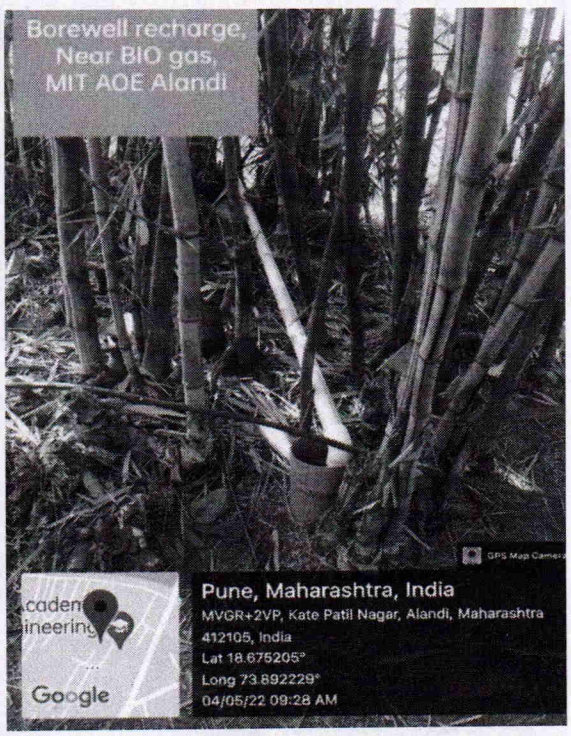
LED Street Lights



LED Street Lights



Rainwater Harvesting Tank



Borewell Recharging

MIT ACADEMY OF ENGINEERING ALANDI (D) DIST. PUNE

Waste Management Initiatives

MIT AOE strives to have a minimal impact on the environment and is dedicated to reducing and managing the waste generated by the college campus. The following specific procedures will be undertaken to ensure MITAOE's contribution to protecting the environment.

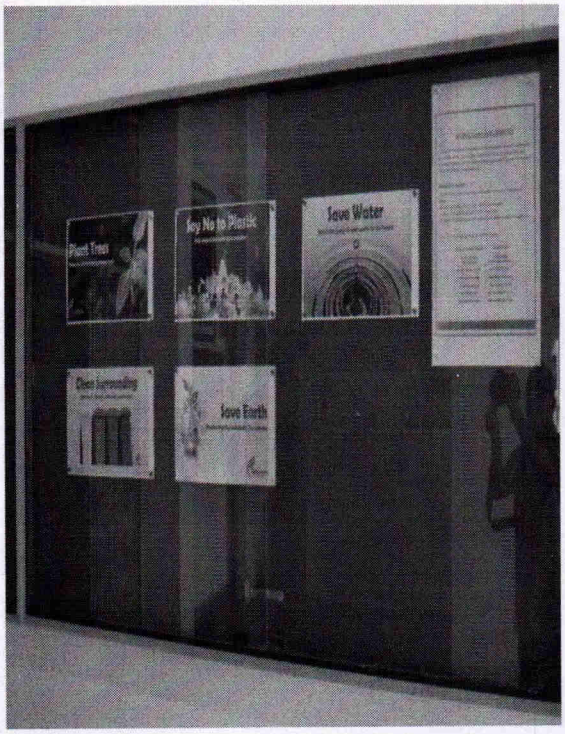
❖ Solid Waste Management

With its aim to provide holistic education that also has a positive impact on the environment, the college had adopted practices that will mitigate the generation, and management of solid waste through the following methods:

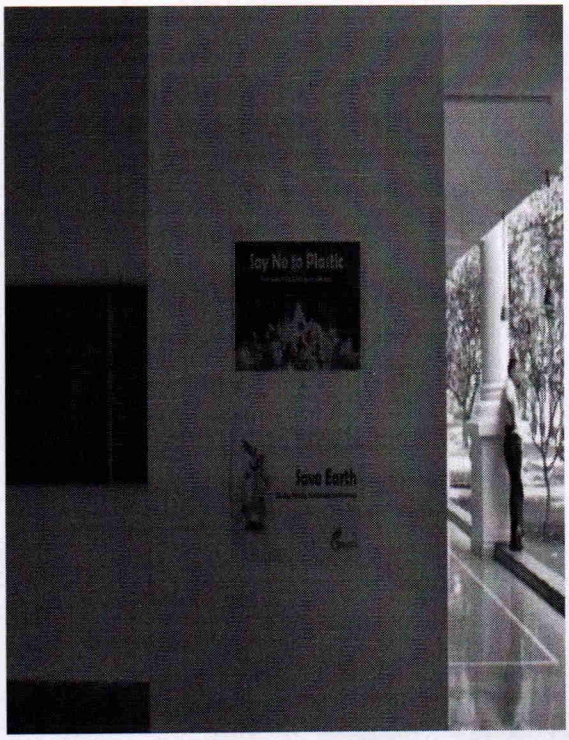
1. Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
2. Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
3. Reduce solid waste by developing a technology-centric teaching and administrative model.
4. Reduce the use of paper by using LMS techniques.
5. Reduce the requirement for printed books by updating the e-books and e-journals collection of the college library.
6. Take initiatives to spread awareness amongst students about
    - ✓ Food wastage and ways of minimizing it
    - ✓ Minimizing the use of packaged food
    - ✓ The habit of reusing and recycling non-biodegradable products
    - ✓ Organizing workshops for students on solid waste management.

Plastic-Free Campus Initiatives

MIT AOE has been observing most of its duties in terms of solid waste management since its inception. Because of the Government of India's resolution to ban all single-use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single-use plastics in its premise to make it a 'Plastic Free Campus.



Awareness of different activities



Ban on Plastic

DIRECTOR
MIT Academy of Engineering
Alandi (D.), Pune-412 105.