



CAYM Education Trusts

## **Siddhant College of Pharmacy**

A/P Sudumbare, Talegaon –Chakan Road, Tal:Maval, Dist: Pune -412109

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### **7.1.2**

## **THE INSTITUTION HAS FACILITIES AND INITIATIVES FOR**

### **B. Policy Document On The Green Campus/Plastic Free Campus**



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**7.1.2 THE INSTITUTION HAS FACILITIES AND INITIATIVES FOR**  
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### POLICY DOCUMENT GREEN CAMPUS



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## **Green Campus**

**Introduction Green Campus:** A Green Campus is a place where environmental friendly practices and education system combine to promote sustainable and eco-friendly practices. 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 environmental, social and economic needs of mankind.

### **Objectives of the Green Campus Program:**

The first step of the Green Campus Program involves establishing a Policy Document suggesting the strategies, plans and other allied tasks to make this program functional officially. We believe that greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling. The administration of the Institute believes that everyone has to work out the time bound strategies to implement green campus initiatives. These strategies need to be incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus. Everyone at the SCOP will work together to foster a culture of self sustainability and make the entire campus environmental friendly. The Green Campus Initiatives will enable the institution to be a eco-friendly environment nurturing lifelong learning, innovation and sustainability. Green Campus status is achieved by making significant progress in cross campus community collaboration under one or a number of the following themes:

- Green Campus & Biodiversity
- Energy
- Water
- Waste

### **Green campus and biodiversity**

We believe that a clean, green and a pollution free environment provide natural environment for an effective learning experience. We have therefore left no stone unturned in the development of a green ecosystem to provide enrichment to the students mind. The road within the College Campus is therefore adorned with tall trees and flowering plants to create a homogenous feeling amongst everyone within the campus. We also intend to introduce planting of saplings by the students for maintaining the greenery within the campus and also inculcate awareness towards nature in their minds. We consider and maintain the participatory documentation of the flora and fauna of College Campus with the help of Pharmacognosy department and the student community for whom it would be an educational and sensitization process. Also, the college has



  
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separate medicinal garden in the campus. The trees, plants, herbs and shrubs of variety are planted and maintained.

## **Energy**

Reduce energy consumption - In this context, SCOP has adopted the following policies:

- Activate power management features on computer and monitor so that it will go into a low power “sleep” mode when you are not working on it.
- Turn off monitor when anybody leaves his/her Table.
- Turn off unnecessary lights and use daylight instead.
- Use LED tubes/bulbs as much as possible
- Switch off lights and fans in the staff rooms, classrooms, seminar hall, conference room and Laboratories when not in use.
- Implement solar system to cut down the heavy usage of electricity.
- Avoid the use of decorative lighting.

## **Water**

Minimize consumption of water - In this context SCOP has adopted the following policies:


- Repair sources of water leakage, such as dripping taps and showers as quickly as possible.
- Install appliances which reduce water consumption.
- **Rain water harvesting.**
- Reuse of water coming out from air conditioners for watering of plants in College campus.
- Use an efficient and hygienic water storage mechanism to minimize the loss of water during storage.

## **Waste**

Waste minimization is very important because it helps in protecting the environment and boost environmental performance. Waste minimization techniques focus on preventing waste from ever being created, otherwise known as source reduction, and recycling. In this context SCOP therefore has adopted the following policies:

- Use more readout material in soft form. Reduce the hard readout material.
- Use more of e-mail for officially communicating the information needed, online reading etc.



  
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- Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost produced on site.
- Prevent the practice of burning plastic and other materials that emit harmful gas on burning in the campus.
- Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment.
- Use separate bins for biodegradable and non-biodegradable wastes in the college campus.
- Recycle electronics and batteries in e-waste recycling bins located in the college.
- Use of one device with multiple functions. This will reduce the generation of e-waste at source.
- Dispose the chemical waste generated from the laboratories in a scientific manner.
- Actions taken to reduce consumption of plastic in the campus. Use of plastic cups, plates etc. has been banned in the college campus. Instead other biodegradable forms of articles are being used

**Restricted entry of automobiles** Students, staff are encouraged to use bicycles, public transport and pedestrian friendly roads. Students staying in the 1.5Km periphery of the college are not allowed to bring vehicles to college. They are encouraged to avoid the use of vehicles and encouraged to use bicycles. More than 50% students use college transport facility.


**Plastic free campus** The use of plastic is banned at the campus making it plastic free. The NSS team of our college conducts programs of cleaning the campus for any plastic wastage. Display Boards reflecting "USE OF PLASTIC IS RESTRICTED" are placed in different area of the college. Hazards of using plastic are explained to students from time to time to create awareness and to imbibe the culture of avoiding the use of plastic

**Paperless office** To initiate paperless office work environment, official circulars of Institute and Departments are communicated through e-mails. Institute, Department and various committee communications are done with whatsapp group and e - mails. All students related information like syllabus, Time Table is made available through the Vmedulife online portal. All faculty members use Google Drive, Vmedulife online portal for sharing course related materials, notes that avoiding the excessive use of papers.

### **Green landscaping with trees and plants**


The Institute has a green campus as well as trees are planted all over the campus area. The variety of trees, herbs, shrubs are planted in and around the campus. Old trees are retained and blended with newer ones. The variety of flowering plants are also cultivated in butterfly garden and other ornamental plants have been planted in and around the campus. Most of the corridors



  
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of the college are also lined up with potted plants. Tree plantation program is organized every year in the college premises and nearby villages under NSS activity to promote green practices and saving of trees. We intend to pursue a programme of continuous improvement in our procedures, practices and review the policy on a regular basis to evaluate continued relevance and to monitor compliance.



  
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### POLICY ON PLASTIC BAN

### SIDDHANT COLLEGE OF PHARMACY SUDUMBARE PUNE.



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## POLICY ON PLASTIC BAN

Currently, one of the largest environmental issues is plastic pollution. Plastic manufacturing and consumption have increased dramatically as a result of the convenience and short-term advantages of plastic and plastic products. Over the past century, excessive plastic consumption has outpaced effective trash management, turning it into a global problem. Plastic is a danger that affects not only our health and wellbeing but also the ecosystem. The goal of this policy is to lessen and eventually get rid of plastic pollution. The policy requires institutional action to proactively support the campaign to prohibit the use of single-use plastics.

Principles and Strategies related to Ban of Single Use Plastic By virtue of this policy, Siddhant college of pharmacy, sudumbare prohibits single-use plastic on its campus. Everyone associated with SCOP must adhere completely to the plastic ban policy. Let's work together to create a cleaner, greener world free of dangerous plastics by running campaigns and awareness programmes.

The following must be adopted by all stakeholders involved under the policy:

- A ban on single-use plastics in campus buildings, hostels, and canteens.
- Hold workshops on and off campus to raise awareness of the negative effects of plastic.
- Refuse to bring anything that won't degrade biologically inside the campus.
- Waste generated should be segregated at the source and the segregated wastes should be sent to authorized waste processing centers, disposal facilities
- All events organized inside the campus should strictly follow the plastic ban



  
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### POLICY ON ENVIRONMENT AND ENERGY USAGE

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## Environment And Energy Usage Policy

Introduction The Environment and Energy usage Policy of Siddhant college of pharmacy, sudumbare is to manage energy in such a systematic way so as to minimize its impact on the environment. The policy implies to avoid the unnecessary use of energy resources and to explore the renewable energy resources to reduce the burden of the government and to find out substitute natural resources as solutions to the energy crisis. This environment and energy policy is binding for all the components of the institution and applies to all its stakeholders and to the various activities undertaken by the institution. It will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to conservation of natural resources and to limit its usage. The various activities are conducted through NSS unit of the college for the environmental awareness, to undertake green initiatives, and to conduct green literacy programmes to save energy and to protect the environment.

### Policies:

- To assess our energy usage and measure its impact on the environment.
- To reduce local air pollution emissions using environment-friendly vehicles, including bicycles, public transportation and use of pedestrian-friendly roads. To install photovoltaic solar panels for the generation of alternate energy
- To install LED tube lights / bulbs in the campus to save energy.
- To develop systematic waste management mechanism
- To develop rain water harvesting unit.
- To undertake tree plantation drive.
- To take additional measures to continuously improve our energy consumption
- To develop and maintain an environmental management system which is ISO: 14001 and an Energy Management System based on ISO: 50001.
- To ensure the availability of necessary resources to achieve our objectives.
- To encourage use of advanced technology to minimize energy consumption atmospheric emissions and noise.
- To monitor and respond to emerging environmental and energy issues.
- To strengthen our employees and students environmental knowledge and skills in order to improve our own environmental performance.
- To provide information and training opportunities on energy saving measures
- To offer opportunities for employees and students to engage in initiatives those contribute to environmental protection.
- To train our employees and students through NSS unit to make them 'Go Green', to plant trees each year, to celebrate eco-friendly festivals.



  
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## **Beyond the campus environmental promotion activities**

- Displayed Posters & Banners with the contents related to environmental issues in the College campus counseling people are to celebrate eco-friendly festivals.
- Conducting sensitization programs for awareness regarding environmental issues specific to water pollution, saving water, waste management, biodiversity, tree plantation, energy conservation are conducted through NSS unit.
- Observing 'Majhi Vasundhara Abhiyan', Environment Day and takes other initiative related to green practices and tree plantation.
- This policy will be communicated to the students and employees via internal communication channels, and will be made available to all the stakeholders on the institutional website. The Environment and Energy Policy, objectives and targets will be reviewed on a regular basis by the institute the guidance of the Principal of the college.



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### POLICY DOCUMENT

### WASTE WATER RECYCLING



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## **Waste water recycling policy**

Our modern lifestyle provides us the luxury of using various products to make our lives more comfortable and easy, but it comes at a price. A common by product of our current lifestyle includes wastewater, which can either be in the form of water running down the shower or runoff from wet roads. This wastewater is unfit for human consumption or use.

Fortunately, we can make the waste water potable and usable by employing wastewater treatment technologies that filter and treat the wastewater by removing contaminants such as sewage and chemicals.

Four common ways to treat wastewater include physical water treatment, biological water treatment, chemical treatment, and sludge treatment. Let us learn about these processes in detail.

### **Physical Water Treatment**

In this stage, physical methods are used for cleaning the waste water. Processes like screening, sedimentation and skimming are used to remove the solids. No chemicals are involved in this process.

One of the main techniques of physical wastewater treatment includes sedimentation, which is a process of suspending the insoluble/heavy particles from the wastewater. Once the insoluble material settles down at the bottom, you can separate the pure water.

Another effective physical water treatment technique includes aeration. This process consists of circulating air through the water to provide oxygen to it. Filtration, the third method, is used for filtering out all the contaminants. You can use special kind of filters to pass the wastewater and separate the contaminants and insoluble particles present in it. The sand filter is the most commonly used filter. The grease found on the surface of some wastewater can also be removed easily through this method.

### **Biological Water treatment**

This uses various biological processes to break down the organic matter present in wastewater, such as soap, human waste, oils and food. Microorganisms metabolize organic matter in the wastewater in biological treatment. It can be divided into three categories:

- Aerobic processes: Bacteria decomposes the organic matter and converts it into carbon dioxide that can be used by plants. Oxygen is used in this process.
- Anaerobic processes: Here, fermentation is used for fermenting the waste at a specific temperature. Oxygen is not used in anaerobic process.



  
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- **Composting:** A type of aerobic process where wastewater is treated by mixing it with sawdust or other carbon sources.

Secondary treatment removes most of the solids present in wastewater, however, some dissolved nutrients such as nitrogen and phosphorous may remain.

### **Chemical water treatment**

As the name suggests, this treatment involves the use of chemicals in water. Chlorine, an oxidizing chemical, is commonly used to kill bacteria which decomposes water by adding contaminants to it. Another oxidizing agent used for purifying the wastewater is ozone. Neutralization is a technique where an acid or base is added to bring the water to its natural pH of 7. Chemicals prevent the bacteria from reproducing in water, thus making the water pure.

### **Sludge Treatment**


This is a solid-liquid separation process where the least possible residual moisture is required in the solid phase and the lowest possible solid particle residues are required in the separated liquid phase.

An example of this includes dewatering of sludge from industrial wastewater or sewage plant where the residual moisture in dewatered solids determines the disposal costs and the centrate quality determines the pollution load returned back to the treatment facility. You need to minimize both.

A solid-liquid separation device such as a centrifuge is used for removing the solids from the wastewater.

Wastewater has a lot of impact on the natural world and it is important to treat it effectively. By treating wastewater, you don't just save the creatures thriving on it, but also protect the planet as a whole.



  
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### POLICY ON WATER CONSERVATION

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## **water Conservation Policy**

The consumption of water is very much every day. Therefore, from faculty to administration, staff, and students, takes a stand on fair access to drinking water, and conserves the precious resource that is also known as "blue gold". Water use efficiency planning can produce permanent and significant water savings leading to future development opportunities at siddhant college of pharmacy

### **I. Policy on water conservation**

1. Reduce the wastage of water by fitting proper valves and arrest the leakages
2. Using suitable equipment, technology and systems to reduce the amount of water used
3. Recycle water to minimize the need to use more water and recycled water to be used for gardening.
4. Watering to the gardening to be done in the morning or in the evening to reduce evaporation losses.
5. Sustainable storm water management practices, keeping gallons from the sewer system for recycling
6. Rainwater harvesting pits have been provided for improving the groundwater depth.
7. Faculty and students have been instructed use water economically.
8. Save water boards have been provided at different places to educate the students and staff.
9. Guest lectures and expert lectures have been arranged regularly on water conservation.
10. World water day, world environment day have been celebrated to imbibe the importance of water conservation.
11. Install flow control devices such as low-flow shower heads and flush valves.
12. Balance systems using once-through water to minimize flow rates, and operate these systems only when required.



  
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## **II. Prevention of Water in siddhant college of pharmacy**

### **Save Water in the Bathroom**

Frequently checking toilets for leaks

Installed water-saving shower heads or flow restrictors

Kept board near each taps 'Turn off water after use'

Installed low water capacity flush tank.

### **Save Water in the Kitchen and Laundry**

Use your automatic dishwasher only for full loads

Use your automatic washing machine only for full loads

If you wash dishes by hand, don't leave the water running for rinsing

Don't let the faucet run while you clean vegetables

Frequently checking faucets and pipes for leaks

## **III Save Water Outside**

Watering lawn only when it needs

Deep soak the lawn - water long enough for the moisture to soak down to the roots


Plant drought-resistant trees and plants that need less water

kept a layer of mulch around trees and plants

Use a broom, not a hose, to clean driveways and sidewalks

Don't run the hose while washing vehicle



  
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### POLICY DOCUMENT

### PLASTIC FREE CAMPUS



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## Plastic free campus policy

Plastic pollution is ubiquitous in terrestrial and aquatic ecosystems. Plastic waste exposed cant concern for all life forms. Plastic to the environment creates problems and is of signi production and accumulation in the natural environment are occurring at an unprecedented rate due to indiscriminate use, inadequate recycling, and deposits in ills. We have all contributed to this problem, knowingly and unknowingly and well land must work to reduce and eliminate plastic pollution. Government has decided to take plastic ban as a national level campaign to address the environmental hazards being caused by the indiscriminate use of plastic, Educational institutions must lead this nation-wide endeavor. There is a need for educational institutions to actively contribute to the effort of banning the use of single use plastics. So it is becoming a key responsibility of every citizen of our country not just to "Say No to Plastics" but also to create awareness among the community as whole to stop this pollution and leave behind a green and pollution free place for our future generations. To carry out awareness drives and sensitizing workshops on the harmful impacts of single use plastics. To ban usage of plastics in the institution's premises. To incentivize students to be to carry out similar campaigns at community level. To provide water units to avoid the purchase and use of plastic water bottles. To inform about alternative solutions like cloth bags etc., to plastic bottles and other goods on campuses. . To conduct events on designing ecological and environment friendly goods to minimize the use of single use plastic.



  
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