



Shri Sharda Bhavan Education Society's

## **NANDED PHARMACY COLLEGE**

Shyam Nagar, Nanded - 431 605 Maharashtra India (19.175868,77.307992)

Phone – 91 2462 254347 Tele fax No. 91 2462 254445 (O)

Visit: [www.nandedpharmacycollege.org.in](http://www.nandedpharmacycollege.org.in) ; Email: [ssbesnpc146@gmail.com](mailto:ssbesnpc146@gmail.com)

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Approved by PCI & AICTE, New Delhi; College DTE Code: 2149; College SRTM University Code: 146

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### **7.1.2. The Institution has Facilities & Initiatives for:**

1. Alternate sources of energy and energy conservation measures
2. Management of various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier-free environment



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### 7.1.2.1 Alternate Sources of Energy and Energy Conservation Method:

#### 1. BIOGAS:

The institute has developed a small-scale Biogas Plant which could be used for collection of biodegradable waste generated in the college campus. The waste collected can be processed in the plant to generate biogas. The plant is a small unit, which is mostly used to demonstrate biogas production from biodegradable waste before the students. The unit is used for making students aware and trained for making such assemblies and thereby contributing for the Green & Clean Campus Campaign.

#### Design Basis:

The Waste Treatment Plant has been designed based on the following parameters:

Waste Generated from:	College
Type of Waste:	Food waste, Biodegradable & biocompostible waste
Quantity of Waste generated:	1-5kg

#### Technical Details:

Sr. No.	Parameter	Type of Parameter used
1.	Process	Anaerobic Digester
2.	Reactor	Vertical Reactor portable made
3.	Reactor Type	digester or pit for fermentation
4.	Design	digester or pit for fermentation
6.	Capacity	1.5 Cum
7.	Treatment Capacity per Day	1-5 kg
8.	Gas Production	0.7 equivalent LPG Gas
9.	Structure	Digester above ground or partially below ground
10.	Holder Movements	Horizontal Type
11.	Food	Food waste, Garbage



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The plant can treat 5 kg food waste per day with a capacity of 1.5 m<sup>3</sup>. The main part of the biogas plant is digester. The waste directly goes to the waste chamber inside the digester. In the chamber food waste remains for 70 to 80 days, then it is converted in to semi liquid form. After 20 to 25 days, it is purely converted to slightly viscous blackish liquid which automatically pumps out from the slurry pipe.

### Advantages:

- Robustness and Operational Reliability
- Tolerant to disturbances
- No clogging of reactor
- No risk of sludge bulking
- Excellent strength to retain high pressure of gas
- Expert fabrication
- Customized design and fabrication
- Long life
- Cost effective.
- Easy maintenance

### 2. USE OF LED BULBS AND POWER INVERTERS:

- The institute has replaced number of tube-lights and other CFL bulbs with low power consuming LED bulbs and tube-lights to conserve the electricity.
- There are number of power inverters and batteries which are used for storing and supplying electricity in the power-off situations to continue the college activities smoothly without interruptions.
- The college has installed sensor-based LED bulbs to prevent electricity loss during night hours.

### 3. SOLAR ENERGY POLES:

- The sister institute, i.e., Yeshwant Mahavidyalaya has already implemented the solar power supply system for contributing the electricity requirement. Moving on the same way, NPC has installed solar poles with a capacity of 15 watts.



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### 7.1.2.2 Facilities and Initiatives for Management of the Various Types of Degradable and Non-degradable Waste:

#### 1. SOLID WASTE MANAGEMENT:

Nanded Pharmacy College has taken initiatives to segregate the waste at source which is the first and most important step in waste management. The college encourages the process of eco-friendly waste disposal method. Maximum waste generated is recycled and reused. Each block and each floor are provided with dry waste collecting bins. Every day, dry waste is collected, segregated and handed over to the Municipal Garbage Transport. Enough bins are provided at wet waste prone. Dust bins are provided at specific points in the college premises

#### 2. LIQUID WASTE MANAGEMENT:

The college has separate drainage systems for the collection of laboratory waste water and utility section waste water. The laboratory waste water containing chemicals and pharmaceuticals is collected and released in to ground through a separate pipeline system other than that for other waste water. The institution also conducts discussions with students to make them aware of the liquid waste management techniques.

#### 3. HAZARDOUS CHEMICALS WASTE MANAGEMENT:

**Following guidelines are followed in Nanded Pharmacy College for management of hazardous chemicals waste management:**

- Regular affirmation that the containers are properly labelled, and materials are contained in an appropriate container.
- No use of any chemical not contained or labelled properly.
- Storing all hazardous materials properly, separating incompatibles, and storing in ventilated, dry, cool areas.
- The waste management oversees the collection and disposal of several waste streams from facilities, classrooms, and laboratories.
- Managing regularly hazardous waste like chemicals, oils and cleaners.



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### 3. E-WASTE MANAGEMENT:

The e-waste generated in the college like old outdated computers, condemned batteries, nonworking mouse, keyboards, CPUs etc. are handed over to the external e-waste recyclers and disposers. The institute has an MOU with Pacific Incorporation which has a Warehouse meant for storage, dismantling and recycling of electronic waste with the support of latest. The organization collects the e-waste from the college and dispose it in a proper manner.

#### 7.1.2.3 Water Conservation Facilities Available in the Institution:

- The institute has a proper water conservation system.
- Water supply is done through the borewell facility to various departments.
- The college has water storage tanks with large capacities.
- The institute has proper arrangements for rainwater harvesting and its reutilization.

### 1. WATER TANKS:

The water storage tanks are generally placed at various points on the terrace to provide a water supply for daily activities. Many tanks with large storage capacities are available considering the large daily requirements for various activities in the college. Tanks have been placed at proper places with direct connection to borewell to have adequate water supply at different departments in the college.

### 2. WATER ULTRA FILTRATION PLANT:

The institute has the facility of RO Filter which is used for collection, purification, and supply of drinking water for students and staff members. The College has various small units at various departments for pure drinking water supply.

### 3. RAIN WATER HARVESTING:

- Nanded Pharmacy College has an efficient system for harvesting the rain water. Water collected on the roof of various departments in the college during rainy season is collected and disposed deeply around the borewell. The water harvesting system helps



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in the water recycling.

- The institute has rain water collection unit at the roof whereby the rain water is collected and transported to the deep ground which helps in maintaining the ground water level around the college and local region.

### 7.1.2.4 The institute has facilities and initiatives to maintain Green Campus:

#### 1. RESTRICTED ENTRY:

- The institute follows the Time Restricted Entry and Exit for students and staff members. The college gate is kept closed during the college timings except the lunch break.
- The students and staff members require a prior permission for exit at any other timings for specific reasons

#### 2. USE OF E-BIKES/ BICYCLES:

The college practices making aware students and staff members of the importance of maintaining a green and clean college campus. Students and staff members are encouraged and motivated to use bicycles and e-bikes to prevent environmental pollution.

#### 3. PEDESTRAIN FRIENDLY PATHWAYS:

The institute has well maintained pathways which are safe for walking. The college has sufficient space for parking vehicles which do not disturb students, college staff and visitors while walking on the pedestrian friendly pathways of the institute.

#### 4. NO USE OF PLASTIC POLICY:

The college has adopted and implemented the 'No Plastic Use Policy' on the campus. Students and staff members are advised to avoid the use of any kind of plastic material not only in the college but also during their routine activities. Instructions discouraging the use of plastics are displayed on the college campus to promote the No Plastic Policy.

#### 5. GREEN AND CLEAN CAMPUS INITIATIVES:

The institute has taken many initiatives for rendering Green and Clean Campus Policy effectively. Lots of efforts are taken by the students and college staff for organizing the events



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and programs which will support the policy. The decisions which will help to create and support the eco-friendly environment are taken and implemented in the institute.

1. Tree plantation is carried out on the college campus at specific intervals.
2. College campus has variety of plants and trees which is a good source of oxygen and which aids in the greenery of the institute.
3. The plants and lawn in the college are regularly watered, properly managed and are nourished with organic fertilizers.
4. The college organizes and celebrates awareness programs like tree plantation campaigns, cleanliness campaigns etc., to encourage students, staff members and common people to maintain eco-friendly and clean environment.
5. The institution advises and encourages students and staff members to use electric vehicles or public transport to control pollution.
6. The Chief Guests and Speakers of the programs organized in the college are felicitated with small plants instead of bouquet and they are also requested to be get involved in the tree plantation activity in the institute.
7. The institute has a team of NSS volunteers which organizes and participates actively in the Green & Clean Campus Campaign in the college as well as in the local region.
8. The NSS volunteers of the institute in collaboration with Nanded Ploggers participate in Clean Campus and Plastic Free Environment Campaigns regularly.
9. The institution insists to make minimum use of papers for office purposes as by avoiding excessive use of printing and promoting paperless conversations. The institution supports for compiling digital documents, using e-mails, using social networking sites like WhatsApp for everyday notices and communication.
10. No one is allowed to use motor bikes with capacity above 350cc.
11. Students and staff members are advised and instructed not to carry or use any non-biodegradable materials, plastic bags, bottles and they are motivated for using cloth and paper bags and articles.
12. The institute has a proper arrangement for the collection and disposal of degradable and non-biodegradable waste on the campus.



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13. The institute has also proper arrangements for disposal of biowaste collected from different departments.

### **7.1.2.5 The Institution has the Facilities and Initiatives for Disabled-friendly, Barrierfree Environment:**

#### **1. DISABLED-FRIENDLY CLASSROOMS:**

- The institute has well-furnished classrooms with smart board facility even at the ground floor so that the disabled students and staff have an easy access for classroom.

#### **2. DISABLED-FRIENDLY ACCESS FOR OFFICE, STAFFROOM, AND LABORATORIES:**

- The Principal's Cabin, Office, Staff room for most of the teaching staff and some laboratories are located at the ground floor of the college considering the convenience for access by disabled persons.

#### **3. DISABLE-FRIENDLY WASHROOMS AND FIRST AID ROOM:**

- The institute has clean washroom at the ground floor which is convenient for disabled persons.
- A well maintained First Aid room with necessary first aid requirements is provided at the ground floor of the institute.

#### **4. DISABLE-FRIENDLY INCLINED PLANES WITH RAILINGS:**

- Inclined planes with railings are provided at the staircases in the college which makes the walking comfortable and easy for the disabled persons.

#### **5. THE INSTITUTION HAS DISABLED-FRIENDLY BUILT ENVIRONMENT:**

Generally, differently-abled persons require special arrangements for their movements and independent working. Nanded Pharmacy College has an environment which is comfortable for their day-to-day activities. Most of the existing infrastructure in the college is disabled-friendly and the college ensures that the same principle will be considered in coming future. The college has special facilities such as wheel chair, walker, crutches which may be needed by a disabled person while working in the premises.





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### **6. ADMISSION POLICY:**

- The college provides an equal educational opportunity for the disabled boys and girls.
- The instructions, norms and orders set by SRTM University about disabled persons are strictly followed by the institute.

### **7. PROVISION FOR ENQUIRY AND INFORMATION:**

- The institute has provided following contact numbers to provide help to the Differently-abled Staff, Students and Parents.
- **Contact No. for Differently-abled Staff, Students and Parents:**

**9422173899**

**8208064396**

**9822671619**