



## BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

Accredited by NAAC With 'A' Grade  
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur  
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### Brief Report of the Facilities Provided

#### 1. Alternate sources of energy and energy conservation measures

- **Solar energy:**

College is committed to minimize and manage electricity utilization. The architecture of the building ensures maximum natural light and ventilation, thereby minimizing required or utilization of light. Regular interaction with faculty and staff helps to inculcate the habits of switching off the light, fans and other electronic gadgets. To reduce carbon footprint for sustainable future and to protect the nature, the Government is encouraging the utilization of green sources of energy. Regarding this, the College has installed PV Solar System having capacity of 139.83KW with net metering in grid.

- **Wheeling to the grid**

Average monthly consumption by campus is approximately 14000 units, out of which college solar system produces about 5500 units per month. With the help of solar power generating systems, we are not only saving an amount of about Rs. 100000 per month, but also helping the environment to reduce the pollution to a great extent and to become carbon neutral country.

- **Use of LED bulbs/ power efficient equipment's**

One more step to save energy, the college has installed LED bulbs in the campus. Most of the CFL bulbs and old tubes are replaced with LED bulbs/tubes from which we are saving 50% energy as compared to CFL bulbs/ old tubes. The college deputed electrical contractor M/S Abhi Enterprises to look after all electrical installation, repairs and maintenance for smooth, energy efficient functioning and considering safety aspects of stakeholders in the campus.

## **2. Management of the various types of degradable and non- degradable waste:**

### **i) Segregation of Waste**

All the solid waste generated from the campus is collected by housekeeping personnel and is segregated into dry and wet waste from the academic, hostel and canteen buildings by providing separate dustbins for both of them. We are going to garden waste dump in a pit for making compost.

### **ii) E-waste management**

E-waste includes old computers, other hardware, and electric appliances containing hazardous elements. Their improper disposal endangers living things. The college collects e-waste from all departments on regular basis and disposes it through authorized e-waste Management Company, Prabhunath Traders, Pune for proper destruction without affecting the environment as per the guidelines set by the Maharashtra Pollution Control Board (MPCB) to make the Campus free from e-waste.

### **iii) Waste Water Recycling**

The college has small scale sewage treatment plant. A sewage treatment plant (decentralized waste water treatment plant) having capacity of 50000 liters per day is installed in the premises. The treated water is stored in underground water storage tank having capacity 75000 lit. From underground water tank the water is distributed for the purpose of gardening, watering of trees in the college campus area. We are not going to discharge the waste water generated in the college directly in nature. The waste water generated in washrooms, canteen and in the premises is sent in sewage treatment plant for further treatment.

### **iv) Hazardous Waste**

All non-working / scrap batteries in the college campus are sold to the dealer. The college does not produce any hazardous waste.

## **3. Water Conservation**

Water is a precious and finite natural resource. Water is a lifeline for planet earth. Without water there is no life. So it is very important to use our present water sources judiciously and try to save as much water as possible by using various water conservation measures. So to save this precious natural resource, our college has installed rain water harvesting plant. The institute has rooftop rainwater harvesting system. There is enough open space, channels to harvest the rainwater and plantation to reduce evaporative loss and soil erosion. Total terrace area covered is 3500 sq.m. Amount of water collected from rooftop is 23, 44,300 lit. to conserve. The filtered rainwater of main building is stored in underground water tank and utilized for various purposes such as gardening, flushing of bathrooms and toilets etc. The filtered rainwater

of mechanical building, workshops and boys hostel is filled into the bore well. It results in ground water recharge. In campus, drip irrigation and sprinkling irrigation are used for gardening purpose which helps to save water.

#### **4. Green campus initiatives**

The college has initiated the following activities towards green campus:

- Tree plantation drives on the campus- On World Environment Day and during various events.
- Landscaping with lawns, trees, and plants - Shade and a lovely ambiance are provided by the trees and lawns. The proper care is taken by skilled gardeners and a supervisor to create and maintain green landscaping.
- Pedestrian Friendly Pathways -The internal roads are lined with trees and lights and they are properly maintained by the campus maintenance committee.
- Encouraging the use of bicycles and electric vehicles.
- Ban on the use of plastic- Single-use plastic items such as plastic bottles, bags, spoons, straws and cups are banned completely and awareness is created among staff and students through orientation and display boards in the premises.
- College has provided bus facilities for students.

#### **5. Disabled-friendly, barrier free environment**

Barrier free environment for disabled persons is created in the campus. It includes the availability of specially designed toilets for disabled persons. The main building is having an entrance accessible to the physically challenged persons. This entrance is also approached through a ramp together with the stepped entry. Lifts are available in the main building especially for physically challenged.