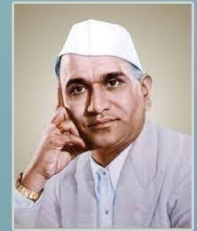




Mahatma Gandhi Vidyamandir's
Karmaveer Bhausaheb Hiray Dental College & Hospital
Panchavati Nashik, 422003



SELF STUDY REPORT CYCLE - 1



Criterion 7- Institutional Values and Best Practices

Key Indicator – 7.1 Institutional Values and Social Responsibilities

- 7.1.3** The Institution has facilities for alternate sources of energy and energy conservation devices



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The Institution has following facilities for alternate sources of energy and energy conservation measures.

1. SOLAR ENERGY:

- Solar energy is a very efficient source of renewable and sustainable source of energy.
- By using solar energy, we are able to reduce our dependency and expenses in electrical energy and ultimately the burden of carbon emission.
- Total 10 no. of solar heaters (Evacuated Tube Collectors) are installed in the college premises and each solar heater is having 01 panel.
- Capacity of each solar heater tank is 500liters water/ day.
- Total capacity is 5000 liters water per day.
- It will reduce pollution, lower the cost of mitigating global warming.

SOLAR STREET LIGHT :(Operates on occupancy sensor)

- Solar street lights used as alternate source of energy for the institution.
- Solar street lights are installed in the girl's as well as boy's hostel and college premises.
- Total number of LED Solar Street lights are 35 in the college premises.
- Thus, the dependency on the conventional energy sources is reduced.

2. SENSOR BASED ENERGY CONSERVATION:

- Using sensor based light system installed in the college premises, we achieve substantial energy conservation.
- Energy conservation reduces the need for energy services and can result in increased environmental quality, higher savings and prevents future resource depletion.
- It also helps in reducing the incidences of electric hazards & accidents.

Sensor base light system is installed inthe following areasof college premises:


- 1) Dark Room – Oral Medicine and Radiology Department.
- 2) CBCT Room- Oral Medicine and Radiology Department.
- 3) Implant Room- Prosthodontics Crown and Bridge Department.
- 4) Research Room- Oral Pathology Department.
- 5) VIPRoom- Pediatric Department (VIP Clinic).
- 6) Principal Office.

3. BIOGAS PLANT:

- It is affordable and efficient alternate technology of waste management.
- Waste collected from college campus is used for biogas plant.
- Waste slurry, a byproduct, of biogas plant used as manure for plants and trees.
- Following are the details of installed project-
 1. Biogas Unit: (Model name – Green Star +20) Facility that provides oxygen free condition where anaerobic digestion can occur. (Capacity approx. 800 Lit.)
 2. Single Burner Stove Biogas: Provides instant heat upon ignition.
 3. 10 Meter Braided Pipe: Use to transfer liquid, air and other gases under high and low pressure.
 4. Water Remover: To remove the water vapor for conserving the heat value of biogas.

4. USE OF LED BULBS/ POWER EFFICIENT EQUIPMENTS:

- Use of LED bulbs –We are using LED bulbs in the college premises.
- Use of power efficient equipment – Also, power efficient equipment's are used in college premises for maintaining campus security, providing better quality light, improving student safety, and giving facility managers a sense of peace that comes out with purchasing long lasting products.
- Every floor of the clinical wing including UG and PG department's clinical section, seminar room, VIP clinic are provided with LED Bulbs and LED Tube Lights.
- Academic section like Examination Hall, Lecture Hall, Seminar rooms, administrative office, and IQAC office are also provided with LED Bulbs.
- Total number of LED Bulbs/Panels and LEDtube lights approximately are 550.


Dr. Pradeep G. L.
PRINCIPAL
MGV's KBH Dental College & Hospital
Panchavati, Nashik-422 003