



**Jaihind Educational Trust's**  
**Zulal Bhilajirao Patil College, Dhule**  
**DIST. DHULE (MAHARASHTRA) 424002**

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**7.1.2 The institution has facilities and initiatives for**

**7.1.2 (1) Alternate sources of energy and energy conservation measures**

In the college classrooms, library, reading room, laboratories, administrative office, departments, hostel rooms and washrooms have sufficient ventilation and sunlight. This minimizes the use of electrical equipments like fan, bulbs, and tubes. The college takes efforts towards energy conservation.

- Replacement of old power consuming tubes and bulbs through LED's, installing solar panel.
- ELCB facility is available on all floors of building to prevent any accidental leakage of electric current.

Average use of electricity was taken from the Maharashtra State Electricity Board (MSEB) in the college before August 2018. The average cost of electricity bill was Rs. 52,123. In August 2018 the solar panel was installed in the College and solar heater was installed in ladies hostel there is drastic reduction in average electricity bill up to Rs. 6,362. The average cost of electricity bill cut up to 87.8%.



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### **7.1.2.(2) Management of Various Types of Degradable and Non Degradable waste**

#### **Solid Waste**

We collect solid waste and separate it into dry waste and wet waste. As per the norms of Municipal Corporation we hand over the separated waste material to Arogya ani Swachhata Vibhag (Health and Cleanliness Dept.). This department has developed recycling process in collaboration with MIDC (Industrial), Dhule.

Taking into consideration the health and hygiene of girl students the college has installed the Incinerator in ladies room and ladies hostel for burning the medical waste.

We dispose paper waste including newspapers to the vendors through inviting tenders and sale them out.

#### **Liquid Waste**

Biological liquid waste generated in departments of Microbiology, Biotechnology, Zoology, Botany is steamed and sterilized before disposing off.

Chemical waste generated in the department of Chemistry is collected in safety tanks. The college reports to Health and Hygiene department to collect the chemical waste from the safety tanks and clean it.

#### **E-waste**

The old equipment's are given to the sunny computers to reuse them.

The damaged and outdated e-wastes from Electronics Department, Computer Department and other departments including language lab are collected and given to the Corporation for further action.



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### **7.1.1 (3) Water conservation facilities available in the institution**

#### **Rain water harvesting**

Water is the elixir of life. Dhule district comes under rain-shadow zone. There is irregular and limited supply of municipal water to the city. So, we undertook rain water harvesting project in the ladies hostel of our college.

Terrace rain water of the hostel is collected by 5 different pipes of 3 inch diameter in two different chambers. From here water is diverted to harvesting pit near the well. Percolation of rain water in well situated in the east side of the hostel continues throughout monsoon. This assures enough supply of water to the girls in severe summer also. As university examinations last up to the month of May, this water availability is very precious.

This rain water harvesting project has maintained groundwater table in this area.

On this background, the water available on the campus is utilized for maintaining greenery as follows:-

- Manually we use minimum water for plants in campus specially to trees to avoid wastage of water.
- We use sprinklers in lawns and gardens.
- We take care of water leakages.
- Clean rain water is stored during rainy season and utilized as distilled water for Chemistry Laboratory of XI<sup>th</sup> Science to PG.

All these initiatives have led towards awareness regarding optimum use of water amongst students and staff.